

RAND

***RAND HRS Longitudinal File 2014 (V3) Documentation***

***Includes 1992-2014 (Final Release)***

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## Preface

The Health and Retirement Study (HRS) is a longitudinal household survey conducted by the Institute for Social Research at the University of Michigan. The multidisciplinary data provide researchers the opportunity to investigate many different aspects related to population aging in the United States. The HRS is extraordinarily rich and complex. With the goal of making the data more accessible to researchers, the RAND Center for the Study of Aging, with funding and support from the National Institute on Aging (NIA) and the Social Security Administration (SSA), created the RAND HRS data products. This document describes the RAND HRS Longitudinal File.

The RAND HRS Longitudinal File is a user-friendly version of a subset of the HRS. It contains cleaned and processed variables with consistent and intuitive naming conventions, model-based imputations and imputation flags, and spousal counterparts of most individual-level variables. All is elaborately documented, with special attention to comparability of variables across survey waves.

The RAND HRS Longitudinal File is the result of three distinct data developments. With funding from the NIA, we created the RAND HRS Fat Files of each survey wave. In these files, the unit of observation is an individual Respondent. They contain most unrestricted HRS Variables. Household-level variables were assigned to its member records, information about spouses that was collected from the financially knowledgeable household member was re-assigned to the spousal record, and many data integrity checks were performed. With funding from the SSA, we created a longitudinal file with consistent naming conventions and imputations. Unlike the RAND HRS Fat Files, this longitudinal file contained only a subset of variables. It also contained some restricted variables. With subsequent funding from SSA through the Michigan Retirement Research Center (MRRC), we removed restricted data from the longitudinal file, added new cohorts and survey waves, new variables, and, in collaboration with HRS staff, made the file publicly available on the HRS website.

The RAND HRS Longitudinal File 2014 (V3) is a user-friendly file derived from all waves of the HRS. It contains cleaned and processed variables with consistent and intuitive naming conventions, model-based imputations, and spousal counterparts of most individual-level variables. The RAND HRS Fat Files contain most of the original HRS variables with household data merged to the Respondent level. There is one file for each survey year. Currently, there are files for 1992, 1993, 1994, 1995, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, and 2014. And the RAND HRS Detailed Imputations File is a longitudinal file which contains the component and ownership variables for all waves that were used in RAND HRS income, wealth, and medical expenditures summary measures. The imputations are distributed as companion files to the RAND HRS Fat Files and summary measures are incorporated into the RAND HRS Longitudinal File. All the RAND data products are available to download from the HRS website (<http://hrsonline.isr.umich.edu/data/index.html>). For more information about the RAND HRS data products, please visit the RAND Center for the Study of Aging website at <http://www.rand.org/labor/aging>.

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## What's New in the RAND HRS Longitudinal File 2014 (V3)?

The RAND HRS Longitudinal File 2014 (V3) incorporates the Final Release for 2014, which includes the Mid Baby Boomer cohort and the most recent versions of the cross-wave Tracker and Region and Mobility files. It contains 37,495 observations or rows. It is a Respondent-level file so each row represents a unique Respondent. It also adds new variables and makes adjustments and corrections. The current versions of the core and cross-wave data used in the RAND HRS Longitudinal File 2014 (V3) are:

- 1992 Final V1.01
- 1993 Final V2.1 (March 1998)
- 1994 Final V1.0 (September 2004)
- 1995 Final V2.0 (August 2007)
- 1996 Final V4.0 (March 2007)
- 1998 Final V2.3 (November 2003)
- 2000 Final V1.0 (April 2004)
- 2002 Final V2.0 (July 2006)
- 2004 Final V1.0 (October 2006)
- 2006 Final Release V3.0 (December 2014)
- 2008 Final Release V3.0 (December 2014)
- 2010 Final Release V5.1 (November 2017)
- 2012 Final Release V2.0 (December 2017)
- 2014 Final Release V2.0 (December 2017)
- Tracker 2014 Final V1.0 (July 2017)
- Cross-Wave Region and Mobility File V6.1 (February 2017)
- Master ID File 2008 V1.0 (December 2009)
- Cross-Wave Imputation of Cognitive Functioning Measures 1992-2014 Final V5.0 (January 2017)
- Prospective Social Security Wealth Measures of Pre-Retirees Final V5.0 (February 2016)
- Prospective Social Security Wealth Measures of Pre-Retirees Wave 10 V1.0 (March 2016)

The HRS contract agreement with the providers of the National Death Index (NDI) has expired, so variables derived from NDI information have been removed from the RAND HRS Longitudinal File. These include RADYEAR, RADMONTH, and RADDATE, as well as RANYEAR, RANMONTH, RANDATE, RANSCORE and RANDATEF (including the corresponding spouse variables). We hope to reinstate them in a subsequent release.

In the meantime, users can obtain death dates from the following variables: RAIYEAR, RAIMONTH, and RAIDATE. These dates are ascertained by HRS, and are populated using information collected either in the Exit Interviews, or from surviving spouses. Additional death date variables are also available in the latest Tracker file, and will be added to future releases of the RAND HRS Longitudinal File. These include KNOWNDECEASEDYR, KNOWNDECEASEDMO and KNOWNDECEASEDSOURCE.

We have changed the file naming convention for the RAND HRS Longitudinal File. Previously, we used letters to denote subsequent versions (i.e., RAND HRS Version P). Now, we use the year of the latest HRS wave that is included in the longitudinal file and a version number. This current release is hence called RAND HRS Longitudinal File 2014 (V2), as this is the second RAND HRS Longitudinal File version with 2014 data.

### **New Variables:**

#### **Variable for Extracting a Household-Level File (HwPICKHH)**

The RAND HRS is a Respondent-level file. For couple households where both individuals respond, each value of

a household-level variable appears twice, once on each Respondent's record. HwPICKHH can be used to extract a household-level file (i.e., one record for each sub-household in the core data) by selecting records where HwPICKHH=1. For more information, please see the description of HwPICKHH in the "Financial, Family Respondent" section of this codebook. HwPICKHH is available for all waves.

### **Private health insurance count, premium, and source variables**

The new variables are: RwPRPCNT, RwPRPRMx, and RwPRSRCx. RwPRPCNT lists the number of private insurance plans reported by the Respondent. RwPRPRM1, RwPRPRM2, and RwPRPRM3 indicate the amount in nominal dollars that the Respondent pays monthly for each private health insurance plan. RwPRSRC1, RwPRSRC2, and RwPRSRC3 indicate the source of each of the Respondent's private health insurance plans. Plan numbers correspond across RwPRSRCx and premium variables RwPRPRM1, RwPRPRM2, and RwPRPRM3. RwPRPCNT, RwPRPRM1, and RwPRSRC1 are available for all 12 waves. RwPRPRM2 and RwPRSRC2 are available beginning in Wave 2. RwPRPRM3 and RwPRSRC3 are available in Waves 2, 3, and Wave 6 forward.

### **Amount in nominal dollars the Respondent pays monthly for long-term care (LTC) coverage (RwLTCPRM)**

This variable is available for all waves.

### **Amount in nominal dollars the Respondent pays monthly for Medicare/Medicaid HMO coverage (RwMRPREM)**

This variable is available beginning in Wave 3.

### **Amount in nominal dollars the Respondent pays monthly for their Medicare Prescription Drug plan (RwRXPREM)**

This variable is available beginning in Wave 8.

### **Life insurance premium variables**

RwWLIPRM indicates the amount in nominal dollars that the Respondent pays monthly for whole life insurance. RwTLIPRM indicates the amount in nominal dollars that the Respondent pays monthly for term life insurance. RwWLIPRM is available in Waves 1, 2, 3, and Wave 5 forward. RwTLIPRM is available for Waves 1, 2, and 3 only.

### **Labor Force Status, No Week Restriction (RwLBRFH)**

RwLBRFH indicates the labor force status for the Respondent at each wave as working full-time, working part-time, unemployed, partly retired, retired, disabled, or not in the labor force. Working 35+ hours per week is considered full-time employment. Working between 1 and 34 hours per week is considered part-time. RwLBRFH is available for all waves.

### **Labor Force Status Year-Round Flag (RwLBRFY)**

RwLBRFY indicates year-round and part-year employment for Respondents who have a labor force status classification of full-time or part-time in RwLBRFH. Working 50+ weeks per year is considered year-round. Working fewer than 50 weeks per year is considered part-year. RwLBRFY is available for all waves.

### **Same Employer as Last Wave (RwSAMEMP)**

RwSAMEMP is 1 if the Respondent reports working for the same employer as the previous wave. RwSAMEMP is available beginning with the Respondent's second interview.

## **Same Job as Last Wave (RwSAMEJOB)**

RwSAMEJOB is 1 if the Respondent reports having the same job as the previous interview. RwSAMEJOB is available beginning with the Respondent's second interview.

## **Adjustments, Improvements, and Corrections to the Data and Documentation:**

### **Parental Mortality**

We improved the algorithm carrying forward data on deceased parents of couple households. When a Respondent reports a parent or parent-in-law as deceased, no questions are asked about that particular parent in subsequent waves. For non-responding spouses in the wave of the deceased parent report, the mortality data on that parent were previously missing for that wave and subsequent waves. The data have now been filled in where applicable by the non-missing data in the Respondent's record.

We also fixed a programming error affecting Wave 10 forward that incorrectly assigned a missing code of .U=unmarried to some married Respondents and to some Respondents who were not interviewed in a particular wave (INWw=0).

These changes affected some values in RwMOMLIV, RwDADLIV, SwMOMLIV, SwDADLIV, RwLIVPAR, SwLIVPAR, RwMOMAGE, RwDADAGE, SwMOMAGE, and RwDADAGE for about 3,600 cases.

### **Insurance**

We fixed a programming error that incorrectly classified some private health insurance plan sources in Wave 12 as "former or deceased spouse's employer/union." The correct plan source for these Respondents is "through an insurance exchange." This affected the variables R12COVR, R12COVS, R12COVRT, R12HIOTHP, R12HERSRC1-3, R12HECOV1-3, R12HERTR1-3, R12HERTS1-3, S12COVR, S12COVS, S12COVRT, S12HIOTHP, S12HERSRC1-3, S12HECOV1-3, S12HERTR1-3, and S12HERTS1-3 for approximately 245 Respondents.

### **Employment: Occupation and Industry Codes**

We have made improvements to the algorithm that carries forward occupation and industry codes from previous waves. About 800 cases are affected by this change.

#### **Occupation code rules**

1. If the Respondent is self-employed both waves and does not report an occupation in the current wave, then we fill from the previous wave.
2. If the Respondent is working for the same employer and does not report that their job title has changed and does not report an occupation in the current wave, then we fill from the previous wave.
3. If the Respondent is working for the same employer and does report that their job title has changed (RwSAMEJOB=0) and does not report an occupation in the current wave, then we leave as missing.

#### **Industry code rules**

1. If the Respondent is self-employed both waves and does not report an industry in the current wave, then we fill from the previous wave.
2. If the Respondent is working for the same employer and does not report an industry in the current wave, then we fill from the previous wave.



## **Imputations: Income and Wealth, Medical Expenditures, and Poverty Thresholds**

### *The RAND HRS Detailed Imputations File*

The RAND HRS Detailed Imputations File is the successor of the RAND HRS Income and Wealth Imputations File, and is available on the HRS website (<http://hrsonline.isr.umich.edu/>) as a companion file to the RAND HRS Longitudinal File. The more general name reflects the addition of medical expenditure data. The RAND HRS Longitudinal File includes out-of-pocket medical expenditure variables (RwOOPMD and RwOOPMDO) and, analogous to the income and wealth imputations, we now include the component variables used to derive these aggregates in the RAND HRS Detailed Imputations File.

### *Correction to the tobit imputation*

In the process of creating the RAND HRS Longitudinal File for Version P, we discovered an error in the tobit imputation program, which is primarily used for imputations in the top bracket where we know a lower bound, but not an upper bound for the variable that needs to be imputed. The error itself was caused by inadvertently using the square root of the estimated standard deviation, instead of the standard deviation itself, resulting in bracket imputations that may be too small or too large, depending on parameter values. Since this discovery came too late to fix for the Version P release, we included a "Warning to Users" in its codebook. This issue has now been resolved.

### *Income and wealth*

We reran both the cross-sectional income and wealth imputations, as well as the cross-wave wealth imputations for Waves 1–12, primarily to address an issue we discovered in Version P with the tobit imputation methodology (described above). During this process, we incorporated several other improvements:

#### Identifiers and flags:

1. Updated the demographic information used in the imputation models, using information from the current Tracker file (Final 2014, V1.0).
2. Updated the HwPICKHH variable, which identifies a Respondent from each household to go through the imputation process, for Waves 2A, 11, and 12.
3. Corrected the imputation flags for IRAs 1–3, specifically the cross-sectional versions for Waves 5 and 6, and the cross-wave versions for Waves 5–12.

#### Ownership variables:

1. For some nursing home residents in Wave 10, set home ownership to "no ownership," rather than "don't know ownership" (which results in ownership being imputed).
2. Consistent with the approach in other waves, adjusted the definition of home ownership in Wave 2A for one household (to "own" a primary residence), who reported living in a house on a farm/ranch, and owning part of the farm/ranch, but not the house or land immediately surrounding it.

#### Amount variables:

1. Corrected several issues in Wave 2A, including the way lump sums received last calendar year are processed, the calculation of household capital income (HwICAP) and total household income (HwITOT), and the calculation of Respondent/spouse income received last calendar year in cases where the answer to the frequency of receipt question is "other."

2. Corrected Wave 6 to use the value of assets in a trust not previously reported (i.e., HQ472, HQ473, and HQ474), rather than the value of any trusts (i.e., HQ467, HQ468, and HQ469).

#### Cross-sectional imputations:

1. We made several small technical improvements and corrections.

#### Cross-wave imputations:

1. Modified the tobit imputation model in Waves 2A and 2H to account for a large proportion of business owners who report a value of "0" when asked about the value of their business, which resulted in more realistic distributions for the amounts conditional on ownership, and fewer imputed outliers.
2. We made several additional small technical improvements and corrections.

For income, the updates summarized above had a small impact overall. Specifically, compared to the previous version, average total household income (HwITOT) changed by less than 2.0% across all waves; the only exception is Wave 2A, which is roughly 4.3% lower. The impact on total wealth, however, is more pronounced. For the cross-wave wealth imputations, average wealth is 0.3% – 9.6% higher, while for the cross-sectional imputations, average wealth is 0.2% – 12.9% higher, depending on the wave. This is true for our measures of total assets (HwATOTA, HwWTOTA), and total assets including second home (HwATOTB, HwWTOTB). Please note that imputed values for individual households or Respondents can change between versions.

#### Medical expenditures

We reran the medical expenditure imputations to address the issue with the tobit imputation described above and to use information from the current Tracker file (Final 2014, V1.0).

For Waves 1 and 2H, we dropped the total out-of-pocket medical expenditure imputations (RwOOPMD, SwOOPMD) and all related variables, since these imputations are based on limited information. We also dropped the variables that contain the *reported* bracket information for total medical expenditures (RwTOTMB, SwTOTMB) in Waves 3–6. Interested users can obtain this information by merging the RAND HRS Detailed Imputations File with the RAND HRS Fat File for a given wave by HHIDPN. The RAND HRS Fat Files contain most of the original HRS variables, with household data merged to the Respondent level.

For Wave 3A, we corrected an issue with how the lower and upper bracket ranges were defined for some Respondents who did not provide a continuous value or bracket. This caused these Respondents to be imputed to the lowest bracket. Some of these Respondents still get imputed to the lowest bracket, but some are now imputed to higher brackets.

For Waves 3A, 4, 5, and 6, the survey questions about total medical expenditures do not ask for a continuous amount. Rather, Respondents go directly into unfolding bracket questions. The only exception is in Wave 3H, where questions asking for a continuous amount and brackets are present. Therefore, we have decided to reintroduce variables that contain the continuous amounts for total medical expenditures (R3TOTMD, R3TOTMDF, R3TOTMD, R3TOTMDF) for Wave 3H, variables that were present in the RAND HRS Longitudinal File prior to Version M.

We made several additional small technical improvements and corrections.

These improvements have had a small impact overall. Specifically, compared to the previous version, average total out-of-pocket medical expenditures changed by less than 2% in most waves. The only exception is Wave 3A, where average total out-of-pocket medical expenditures is roughly 16% higher. This is primarily due to the correction of the lower and upper bracket ranges for some Respondents who did not provide a continuous value or bracket. Please note that imputed

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values for individual Respondents can change between versions.

### Poverty Thresholds

The poverty threshold variables are currently available for Waves 6–12. We reran the associated programs to address the issue with the tobit imputation mentioned above and to accommodate improvements made to the income and wealth imputations in these waves (described above). Total household income (HwITOT) and total household assets (HwATOTA) are used as covariates in the imputation of other household member income, which is used in calculating the household income relevant for poverty determination. See the section entitled "Poverty Threshold Definitions and HRS Measures" for more information regarding how other household member income is used.

To determine a family's poverty threshold, we use the RAND HRS measure of total household income (HwITOT) less food stamps. We now include Medicare Part B premiums deducted from Social Security in this measure.

We made several additional small technical improvements and corrections.

The cumulative effect of all these changes was small. Compared to the previous version, average household income (HwPOVHHI, HwPVHHIA) was 1.2%–3.2% higher, and the average percentage of cases classified as below the poverty threshold (HwINPOV, HwINPOVA) was 1.0%–1.8% lower, depending on the wave.

# 1. Introduction and Overview

This report documents the RAND HRS Longitudinal File, a cleaned, processed, and streamlined collection of variables derived from the Health and Retirement Study (HRS). The HRS is a national panel survey of individuals over age 50 and their spouses. Its main goal is to provide panel data that enable research and analysis in support of policies on retirement, health insurance, saving, and economic well-being. The survey elicits information about demographics, income, assets, health, cognition, family structure and connections, health care utilization and costs, housing, job status and history, expectations, and insurance.

The HRS is primarily sponsored by the National Institute of Aging (NIA), with additional funding from the Social Security Administration (SSA) and administered by the Institute for Social Research (ISR) at the University of Michigan. It consists of six cohorts:

- Initial HRS cohort, born 1931 to 1941. This cohort was first interviewed in 1992 and subsequently every two years.
- AHEAD cohort, born before 1924, initially a separate study (The Study of Assets and Health Dynamics Among the Oldest Old). This cohort was first interviewed in 1993 and subsequently in 1995, 1998, and subsequently every two years.
- Children of Depression (CODA) cohort, born 1924 to 1930. This cohort was first interviewed in 1998 and subsequently every two years.
- War Baby (WB) cohort, born 1942 to 1947. This cohort was also first interviewed in 1998 and subsequently every two years.
- Early Baby Boomer (EBB) cohort, born 1948 to 1953. This cohort was first interviewed in 2004.
- Mid Baby Boomer (MBB) cohort, born 1954 to 1959. This cohort was first interviewed in 2010.

In addition to Respondents from eligible birth years, the survey interviewed the spouses of married Respondents or the partner of a Respondent, regardless of age. Some of the HRS and AHEAD entry cohort Respondents were spouses of HRS- and AHEAD-eligible individuals who are age-eligible for the CODA or WB cohorts. These HRS and AHEAD spouses are given weights beginning in 1998 (Wave 4) so that they contribute to the representation of the CODA/WB birth year population. Some spouses of the initial HRS entry cohort Respondents were age 70 or older and were subsequently included in the AHEAD study. These so-called HRS/AHEAD overlap cases may thus have been interviewed in 1992, 1993, 1995, and from 1998 forward.

The RAND HRS Longitudinal File contains all six cohorts. This document refers to the entire survey as the HRS and the 1931-41 cohort that was first interviewed in 1992 is labeled the "initial" or "original" HRS entry cohort.

The HRS contains several auxiliary files. The RAND HRS Longitudinal File only incorporates the core interviews. It does not include exit interviews or any restricted data, but does use information from the current Tracker, Region and Mobility, and Master ID files.

The data include any individual interviewed at least once. This includes individuals who were age-eligible (born in eligible years) at the time of their first interview, spouses that were not age-eligible at baseline, and spouses who married an age-eligible Respondent between survey waves.

The HRS over-samples Hispanics, Blacks, and residents of Florida, and provides weighting variables to make it representative of the community-based population.

As of December 2017, 14 waves of data are available for study. The data described in this document are based on 1992, 1993, 1994, 1995, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, and 2014 final data releases.

## 1.1. Confidentiality and Access Restrictions

The data described in this document are based on HRS public release files. Before using the data, you must obtain permission from HRS by registering with them to download the public release files. The HRS website contains information on the process to register for access to HRS public release data (<https://ssl.isr.umich.edu/hrs>). By registering with HRS you agree to the "Conditions of Use" governing access to the data. This agreement applies to the use of other RAND HRS data products as well, NONE of which contain restricted data.

## 1.2. Data Files Structure

The RAND HRS Longitudinal File is distributed as a single file which includes 12 waves of the HRS. The data contain Respondents within the HRS, AHEAD, CODA, WB, EBB and MBB entry cohorts. Table 1 lists the source year of data for each of the entry cohorts, by wave. The 1993 data are treated as Wave 2 data and the 1995 data are treated as Wave 3 data for the AHEAD entry cohort. The 1994 data are treated as Wave 2 data and the 1996 data are treated as Wave 3 data for the HRS entry cohort. The AHEAD and HRS survey instruments in these years differed significantly. This documentation distinguishes between the instruments by using Wave 2A and Wave 3A to refer to the 1993 and 1995 data for the AHEAD entry cohort, and Wave 2H and Wave 3H to refer to the 1994 and 1996 data for the HRS entry cohort.

**Table 1. Source of Data for Entry Cohorts in RAND HRS Longitudinal File by Wave**

Wave	Entry Cohort					
	HRS HACOHORT=3	AHEAD HACOHORT=0,1	CODA HACOHORT=2	WB HACOHORT=4	EBB HACOHORT=5	MBB HACOHORT=6
1	1992	1992 (HRS/AHEAD overlaps only)	Not available			
2	1994 (Wave 2H)	1993 (Wave 2A)				
3	1996 (Wave 3H)	1995 (Wave 3A)				
4	1998	1998	1998	1998	Not available	
5	2000	2000	2000	2000		
6	2002	2002	2002	2002		
7	2004	2004	2004	2004	2004	Not available
8	2006	2006	2006	2006	2006	
9	2008	2008	2008	2008	2008	
10	2010	2010	2010	2010	2010	2010
11	2012	2012	2012	2012	2012	2012
12	2014	2014	2014	2014	2014	2014

The unit of observation is an individual. Each individual is uniquely identified by a household ID (HHID) and a person number (PN). We combined these variables into a single ID variable, HHIDPN (HHIDPN: HHold ID + Person Number /Num), where  $HHIDPN = 1000 \times HHID + PN$ .<sup>1</sup> This file may be merged with other HRS data by HHIDPN.

The RAND HRS Longitudinal File is distributed in SAS, Stata, and SPSS formats, as one file that includes all 12 waves.

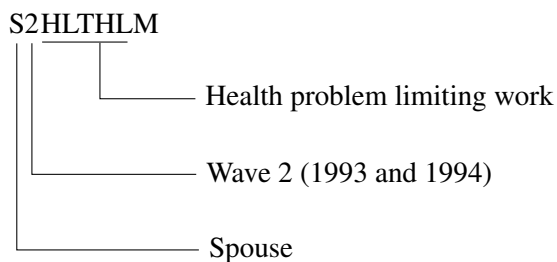
## 1.3. Variable Naming Conventions

With few exceptions, variable names in the RAND HRS Longitudinal File follow a consistent pattern. The first character indicates whether the variable refers to the reference person ("R"), spouse ("S"), or the household ("H").<sup>2</sup> The second character indicates the wave to which the variable pertains: "1," "2," "3," "4," "5," "6," "7," "8," "9," "10," "11," "12," or "A."

<sup>1</sup> This HHIDPN variable is numeric. Also available is RAHHIDPN (RAHHIDPN: HHold ID + Person Num /9-Char), its 9-character string equivalent.

<sup>2</sup> The reference person need not be the person who responded to the question. It is the person whose information is central to the data file observation.

The "A" indicates "all," i.e., the variable is not specific to any single wave. An example is RABDATE, the birth date of the Respondent. The remaining characters describe the concept that the variable captures. For example:



Variable S2HLTHLM captures whether the spouse of the reference person experiences an impairment or health problem that limits the kind or amount of paid work s/he can do. The name of the variable does not indicate who provided the information. For example, the spouse's health problem may have been reported by the spouse himself or herself, or it may have been reported by the reference person as a proxy. The HRS obtains many variables, particularly on financial and family matters, by proxy.

In the text below, we may refer to variables such as SwHLTHLM for example, without specifying the wave. This reference points at the group of variables S1HLTHLM, S2HLTHLM, S3HLTHLM, S4HLTHLM, S5HLTHLM, S6HLTHLM, S7HLTHLM, S8HLTHLM, S9HLTHLM, S10HLTHLM, S11HLTHLM AND S12HLTHLM.

Variable labels also follow a consistent pattern. The first characters denote the name of the variable, followed by a colon. Then follows the wave to which the variable pertains (W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11 OR W12). The remainder of the label describes the concept that the variable captures. For example, the variable label of S2HLTHLM is:

S2HLTHLM: W2 Hlth problems limit work

It may seem duplicative to include the name of the variable and the wave in the variable label. However, SAS often suppresses the variable name and instead uses its label in the presentation of results.

## 1.4. Missing Values

Variables may contain missing values for several reasons. SAS and Stata offer the capability to distinguish multiple types of missing values, and we have attempted to record as much information as possible. Generally, the codes adhere to the classification in Table 2.

**Table 2. Missing Codes**

Code	Reason for missing
.	Reference person did not respond to this wave
.D	Don't know
.R	Refused
.X	Does not apply (specifics depends on variable)
.Q	Data not available because the question was not asked
.U	Reference person is not married (for spouse variables)
.V	Spouse did not respond this wave (for spousal variables)
.S	Information not available due to skip patterns, typically because the interview is by proxy Respondent
.M	Other missing
.N	a. No live interview (SwDDATEF, SwNDATEF) b. No mars, likely nev mar (RwMNEV) c. In NHM (R/SwHOMCAR) d. No utilization (R/SwTOTMBF) e. Not a pension, other (R/SwTYPF1-R/SwTYPF4) f. No Plan (R/SwCOVRT) g. None (R/SwHECOV1-R/SwHECOV3) h. No respondent employer-p (R/SwHERTR1-R/SwHERTR3, R/SwHERTS1-R/SwHERTS3, R/SwHERET) i. Cog not asked (re-IW)/1 (R/SwMO, R/SwDY, R/SwYR, R/SwDW, R/SwSCIS, R/SwCACT, R/SwPRES, R/SwVP, R/SwVOCAB) j. No retirement plans (R/SwRETWSP, R/SwRETINC, R/SwRETLIV) k. Not retired (R/SwRETSAT, R/SwRYRCMP)

The coding scheme varies across variables. .N is defined differently in various sections. Consult the Data Codebook section of this document for details on individual variables.

Stata introduced the ability to distinguish multiple types of missing values beginning in Version 8. The RAND HRS files in Stata format are for use with Version 11 SE or later.

## 2. Conceptual Variables

Only a few variables in the RAND HRS Longitudinal File are unchanged copies of raw HRS variables. Most variables have undergone some processing, and many are the result of more than one HRS variable. Generally, the codebook indicates the names of HRS variables that were used to construct the relevant variable.

Some variables, such as *RwJLTEN* (tenure on longest job) and *RwMLEN* (duration of longest marriage) required elaborate manipulation of many variables from several sections of the HRS, but are conceptually straightforward. This section documents variables whose construction involved substantive judgments of key research concepts: health, health change, medical expenditures, and wages.

### 2.1. Health Indices

We define and derive four groups of health indices: several functional limitation indices, one depression index, one health problem index, and a body mass index. We also include cognitive health indices for which the HRS has provided imputations. A description of each index follows.

#### 2.1.1. Functional Limitations

The RAND HRS Longitudinal File contains six primary functional limitation indices. We chose these indices for their comparability with studies that measure functional limitations, our assessment of their quality, and for consistency across survey waves. We first derive a variable that indicates if the Respondent had difficulty performing a task (0=no difficulty; 1=difficulty). The exact question asked of the Respondent varies slightly across the survey waves. The responses defined by HRS are quite different in Wave 1 compared to other waves, so we do not include these measures for Wave 1.<sup>3</sup> Our measure of difficulty is defined to be comparable across the rest of the waves. The codebook provides details on the definition and calculation of 'difficulty' for all waves. All indices are the sum of the number of difficulties a Respondent has completing a particular set of tasks, and uses a definition of difficulty that is comparable across waves. Each index and the set of tasks used in the index are defined below. The variable name, for an unspecified wave, is given in parenthesis next to the index name.

*Mobility (RwMOBILA)*: The five tasks included in the mobility index are walking several blocks, walking one block, walking across the room, climbing several flights of stairs and climbing one flight of stairs. Note that this index is missing for AHEAD entry cohort Respondents and their spouses in Wave 2, because one or more of the elements in the index is not available in Wave 2A.

*Large Muscle (RwLGMUSA)*: The four tasks included in the large muscle index are sitting for two hours, getting up from a chair, stooping or kneeling or crouching, and pushing or pulling a large object. Note that this index is missing for AHEAD entry cohort Respondents and their spouses in Wave 2, because one or more of the elements in the index is not available in Wave 2A.

*Activities of Daily Living (RwADLWA, RwADLA)*: We define two activities of daily living indices. *RwADLWA* follows Wallace and Herzog (1995) and includes three tasks: bathing, eating, and dressing. *RwADLA* includes five tasks: bathing, eating, dressing, walking across a room, and getting in or out of bed.

*Gross Motor Skills (RwGROSSA)*: The four tasks in this index are chosen because of their consistency across waves. They include walking one block, walking across the room, climbing one flight of stairs, and bathing. Note that this index is missing for AHEAD entry cohort Respondents and their spouses in Wave 2, because one or more of the elements in the index is not available in Wave 2A.

<sup>3</sup>For Wave 1 only, we provide another measure of difficulty as defined in Wallace and Herzog (1995). The names of variables using this definition end in the letter "W." These are not comparable to the "some difficulty" measures in other waves.



*Fine Motor Skills (RwFINEA)*: The three tasks included in this index are: picking up a dime, eating, and dressing.

*Instrumental Activities of Daily Living (RwIADLA, RwLMCOGA, RwIADLZA)*: Not all waves ask the same Instrumental Activities of Daily Living (IADL) tasks. The usual IADLs were not asked in Wave 1. RwIADLA is consistent across all survey waves starting with Wave 2 and include: using a telephone, taking medication, and handling money. The tasks of RwIADLZA are asked in Wave 2A and from Wave 3 forward and include: using a telephone, taking medication, handling money, shopping, preparing meals.

### 2.1.2. Mental Health (RwCESD)

*Depression (RwCESD)*: We derive one mental health index, RwCESD, using a score on the Center for Epidemiologic Studies Depression (CESD) scale. The CESD score (RwCESD) is the sum of five "negative" indicators minus two "positive" indicators. The negative indicators measure whether the Respondent experienced the following sentiments all or most of the time: depression, everything is an effort, sleep is restless, felt alone, felt sad, and could not get going. The positive indicators measure whether the Respondent felt happy and enjoyed life, all or most of the time. In Wave 1 the allowable responses to these questions are quite different than those in other waves, so this measure is not derived for Wave 1.

*Cognition*: The HRS has selected a set of measures related to cognitive function that are collected fairly consistently across waves, and have imputed values for them when they are missing. The imputations are publicly available from the HRS website<sup>4</sup>, and we have included them in the RAND HRS Longitudinal File. The selected cognitive functioning measures include immediate and delayed word recall, the serial 7s test, counting backwards, naming tasks (e.g., date-naming), and vocabulary questions. In addition to the individual cognitive functioning measures, the HRS also derived three cognition summary indices, which we include in the RAND HRS Longitudinal File. The total recall index (RwTR20, R1TR40, RwATR20, RwHTR40) is available in all waves and summarizes the immediate and delayed word recall tasks. In Waves 1 and 2H, the recall wordlist contained 20 words, while in all other waves it contained 10. Thus the scores range from 0 to 40 in Waves 1 and 2H and from 0 to 20 in other waves. The mental status index (RwMSTOT, R2AMSTOT) sums scores from counting, naming, and vocabulary tasks and is available for Wave 2A and from Wave 3 forward. This reflects the absence of some of these tests in Waves 1 and 2H. A total cognition score (RwCOGTOT, R2ACGTOT) sums the total recall and mental status indices. Because the mental status index is missing for Waves 1 and 2H, the total cognition index is also missing for these waves.

### 2.1.3. Health Conditions (RwCONDE)

We derive one health problem index, RWCONDE that is the sum of indicators for whether a doctor has ever told the Respondent that s/he has ever had a particular disease. The eight included diseases are: high blood pressure, diabetes, cancer, lung disease, heart disease, stroke, psychiatric problems, and arthritis. In interviews after the baseline, prior responses were preloaded.<sup>5</sup> Each disease condition indicator variable has a corresponding flag variable that indicates whether the Respondent disputed the previous wave's indicator and whether the Respondent later denied having the condition through such a dispute. Note that the RwCONDE time series is not appropriate for tracking changes in the prevalence over time, and the individual variables without disputes incorporated should be used instead. These are available as a series of variables that recode the raw responses found in the HRS data.

### 2.1.4. Body Mass (RwBMI)

We derive one body mass index (RwBMI) that is calculated as weight divided by the square of height. Height is converted into meters and weight into kilograms. Beginning in Wave 3, height is only asked of new Respondents, but weight is asked in every wave. For Respondents being re-interviewed, height is carried forward from their first interview.

<sup>4</sup>Please refer to [Health and Retirement Study Imputation of Cognitive Functioning Measures \(1992 - 2014\) \(Final Release Version\) Data Description \(Fisher et.al., January 2017\)](#) for details on the imputation method.

<sup>5</sup>The term "preloading" refers to information from a prior wave that the interviewer uses to prompt the Respondent. For example, suppose a Respondent indicated in Wave 2 that s/he had been diagnosed with diabetes. In Wave 3 questions, the interviewer will use this information. Typically, the Respondent is allowed to challenge preloaded information.

## 2.2. Health Change

We define and derive four groups of indices for health change: overall health, functional limitations, diagnosis, and subjective mortality risks. The health change indices are chosen for their quality in assessing health change and for their consistency across waves. Health change is calculated as health status in the current wave minus health status in the previous wave.

If a Respondent did not answer a health question in a certain wave (item non-response), the corresponding health change variable in that wave is set to missing. Similarly, if a Respondent did not participate at all in a certain wave (interview non-response), the corresponding health change variable in that wave is set to missing. If s/he did participate in the next wave, the health change variable of that next wave will be based on the most recent wave in which the Respondent participated, i.e., the change pertains to a change over four years instead of two. (Should the response to the health question in that most recent participatory wave be missing, the change will also be missing.) Separate flag variables indicate how many interviews were missed prior to the current wave. Additional flag variables are included to indicate that the Respondent disputed preloaded information.

### 2.2.1. Change in Overall Health

*Change in Self-reported Health (RwSHLTC):* These variables measure the change in self-reports of health categories "excellent," "very good," "good," "fair," and "poor." The health categories are numbered from 1 (excellent) to 5 (poor), so that positive values of the change in self-reported health denote deterioration. This measure is not available in the baseline wave.

*Self-report of Health Change (RwHLTC):* The HRS also directly asks about changes in health. The responses may be "much better" (1), "somewhat better" (2), "same" (3), "somewhat worse" (4), and "much worse" (5). Higher values denote a health deterioration. In Wave 1 for the HRS entry cohort and Wave 2 for the AHEAD entry cohort, the change in health is relative to one year ago; in subsequent waves, the changes are relative to the previous interview, two years ago.

### 2.2.2. Change in Functional Limitations

*Activities of Daily Living (RwADLC):* This variable measures the change in the index for activities of daily living (RwADLA). See above for more information on this index. It is not available in the baseline wave. Because of problems in the underlying HRS data, it is not available until Wave 3 for the HRS entry cohort.

*Gross Motor Skills (RwGROSSC):* This variable measures the change in the index for gross motor skills (RwGROSSA). See above for more information on this index. It is not available in the baseline wave. Because of problems in the underlying HRS data, it is not available until Wave 3 for the HRS entry cohort.

*Fine Motor Skills (RwFINEC):* This variable measures the change in the index for fine motor skills (RwFINEA). See above for more information on this index. It is not available in the baseline wave. Because of problems in the underlying HRS data, it is not available until Wave 3 for the HRS entry cohort.

### 2.2.3. Change in Diagnoses of Specific Health Conditions

We derive one set of variables that measure the increase in the number of health conditions since the last interview. The number of health conditions (high blood pressure, diabetes, cancer, lung disease, heart disease, stroke, psychiatric problems, arthritis) is captured in variables RwCONDE (see above); the increase since the last interview is in RwCONDS. It is not available in the baseline wave.

## 2.2.4. Change in Assessment of Relative Mortality

*Change in Relative Probability of Living to Age 75 or 85 (RwLIV75C, RwLIV85C):* We constructed two sets of variables that measure change in relative mortality risk. The HRS asks for subjective probabilities of living to age 75 and to age 85. We first computed the ratio of these reported probabilities to the probability implied by the annual Vital Statistics life tables (controlling for age and sex). The annual table used corresponds to the interview year. We then take the difference in relative mortality risks between waves. These indices are not available in the baseline wave.

In Waves 2A (AHEAD 1993), 3A (AHEAD 1995), and from Wave 5 (HRS 2000) forward, the wording for the question analogous to the subjective probability of living to age 85 changed significantly enough that the change variable is no longer longitudinally consistent. Please see the description of these variables in the Data Codebook Appendix for more details.

## 2.3. Health Care Utilization and Medical Expenditures

The construction of health care utilization and medical expenditures variables is complicated by differences in the questions across waves. Health care utilization questions are asked in all waves, but the categories of care differ. Medical expenditure questions can be divided into two broad types: out-of-pocket expenditures, which are costs paid by the household, and total medical expenditures, which encompass costs incurred by both the household and by insurance plans on behalf of household members.

Individual out-of-pocket medical expenditure components are summed to create the two total out-of-pocket medical expenditure measures found here and in the RAND HRS Detailed Imputations File. For each measure, a flag indicates whether any or all of its components have been imputed. Individual medical expenditure components and imputation flags are available in the RAND HRS Detailed Imputations File.

Medical expenditure measures are reported at the Respondent level, with one exception. In Wave 2A, the Financial Respondent reports the medical expenditures for her/himself and spouse, yielding household-level data.

### 2.3.1. Health Care Utilization

In Wave 1 (1992), Respondents are asked about hospital stays and their duration, nursing home stays and their duration, doctor visits and their number, and home health care in the twelve months prior to the interview. In Wave 2A (1993), Respondents are asked about hospital stays and their duration, nursing home stays and their duration, doctor visits and their number, prescription drugs and their quantity, outpatient surgery and dental care in the twelve months prior to the interview. In addition to the utilization questions asked of the Respondent about her/himself, in Wave 2A, some utilization questions are also asked of the Financial Respondent about the entire household.<sup>6</sup> In Wave 2H (1994), the Respondents are asked about the same types of services as Wave 1, plus prescription drug use since the previous interview (for re-interviews) or in the previous two years (for new interviewees). In Wave 3H (1996), Respondents are asked about hospital stays and their duration, nursing home stays and their duration, doctor visits and their number, prescription drugs and their quantity, outpatient surgery, dental care, home health care and special facility services, and the reference period is since the previous interview (for re-interviews) or in the previous 2 years (for new interviews), and from then on, the utilization questions are consistent through Wave 12 (2014).

### 2.3.2. Out-of-Pocket Medical Expenditures

In Wave 1, there are no questions asked about the costs of health care services. In Wave 2A, only the Financial Respondent is asked to estimate out-of-pocket expenses in the last 12 months for the entire household for two service categories: nursing

<sup>6</sup>The Financial Respondent is asked questions about whether either in a couple has had any hospital stays, nursing home stays, doctor visits, outpatient surgery, dental care, prescription drugs, home health care, and other services, but is not asked to quantify any of these. When a Respondent's individual answers about her/himself and the Financial Respondent's household-level information are both available and in disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use household-level data to fill in missing Spouse information.

home stays and all other medical expenditures without specific reference to any of the reported utilization. In Wave 2H (1994), and in all waves going forward, both Financial and non-Financial Respondents are asked whether health care costs are covered fully or partially by insurance, and to estimate out-of-pocket medical expenditures since the previous interview (for re-interviews) or in the previous two years (for new interviews). If Respondents are unable to provide exact estimates, a series of follow-up unfolding bracket questions are asked. In Wave 2H, Respondents are asked to report an estimate of out-of-pocket costs that considers all service categories together. From Waves 3-5, Respondents are asked about out-of-pocket spending in four categories: (1) hospital and nursing home costs; (2) doctor, dentist and outpatient surgery costs; (3) average monthly prescription drug costs; and (4) home health care and special facilities or services costs. Beginning in Wave 6, the number of categories expands to eight: (1) hospital costs; (2) nursing home costs; (3) doctor visits costs; (4) dentist costs; (5) outpatient surgery costs; (6) average monthly prescription drug costs; (7) home health care and (8) special facilities costs. Beginning in Wave 10, a ninth category seeks to capture any additional out-of-pocket medical expenditures that cannot be assigned to any of the other categories.

In Wave 8 only, Respondents are asked different questions about out-of-pocket prescription drug costs depending on whether or not they have enrolled in Medicare Part D. For those whose prescription drug use and cost are unaffected by Medicare Part D, the reported or imputed monthly average is multiplied by 24 months to estimate drug costs for the last two years. For those enrolled, two questions ask if their use or costs of prescription drugs changed. If the answer to either of these questions is "yes," then Respondents report two average monthly out-of-pocket amounts: one for the 12 months prior to coverage under Part D and another for the 12 months after. Total prescription drug costs for the last two years in Wave 8 is, then, calculated as:

$$R8MDRUG = [\# \text{ Months post-Part D} * \text{expenses post-Part D}] + [(24 - \# \text{ Months post-Part D}) * \text{expenses pre-Part D}]$$

The variable `RwPARTD` contains the flag for Medicare Part D status, and has the following values: 0 = No Part D, 1 = Part D but no change, and 2 = Part D and change in use or cost. The variable `R8MDRUG` can be found in the RAND HRS Detailed Imputations File.

### 2.3.2. Total Medical Expenditures

In Waves 1 and 2, there are no questions about the total costs of any medical services. In Wave 3H, Respondents are asked to estimate total medical costs for all medical services since the previous interview. If the Respondent does not provide an exact amount, unfolding bracket follow-up questions are asked. In Wave 3A and from Wave 4 to Wave 6, an exact amount of total expenditures is not asked; all Respondents are directed into unfolding bracket questions. Starting in Wave 7, there are no questions about total medical expenditures.

### 2.3.4. Imputation Process

Where applicable, we impute out-of-pocket medical expenditures and total medical expenditures. We do not impute utilization. We do, however, include in the RAND HRS Detailed Imputations File a series of "ownership" variables that indicate if the Respondent paid out-of-pocket for at least some portion of a particular medical expense. These variables are also not imputed.

#### 2.3.4.1 Out-of-Pocket Medical Expenditures

Beginning with Wave 3, we impute out-of-pocket medical expenditures across all waves using the following method. If a Respondent reports using a given service category and reports that insurance partially covered or did not cover costs for that category, we use the exact amount s/he reports.<sup>7</sup> Approximately half of those who report using a given service do not provide an exact amount; for those cases, we impute an exact amount using bracketed responses. With one exception, the imputation algorithm for imputing complete brackets and exact amounts for out-of-pocket medical expenditures is the same

<sup>7</sup>Some Respondents report using a particular service (e.g., hospital stays), and insurance did not pay the full cost. However, when asked how much they paid out-of-pocket for that service, they give an amount of "0" dollars. We treat these Respondents as "owners", since the costs may have been picked up by someone other than the Respondent.

as the algorithm used for imputing complete brackets and exact amounts for income and wealth; it is described in detail in Section 2. As previously mentioned, we do not impute "ownership" for out-of-pocket medical expenditures.

The one difference between the out-of-pocket medical expenditures imputation process and the income and wealth imputation process occurs when we impute exact amounts for nursing home costs. To impute missing values falling in the highest bracket range for nursing home costs, we use the "nearest neighbor" approach rather than the tobit draw usually used for the open-ended bracket at the top of the distribution. The tobit model has been a particularly poor fit for the data, and we have determined that there are no extreme outliers in the distribution of reported continuous values that would be used as part of the nearest neighbor donor pool. The imputation model predictors are age, age-squared, education, subjective health status, gender, marital status, race, whether an individual has any health insurance, whether an individual reported a hospital or nursing home stay, number of doctor visits, and whether the hospital, nursing, or doctor visit data are missing. A zero value is assigned to each category where Respondents report not using a given service category or report that insurance fully covered all associated costs. Expenditures are then summed across service categories to calculate total out-of-pocket expenditures. The procedure produces an imputed value for out-of-pocket medical expenditures for all individuals in the sample, including those with missing data.

For Wave 2A, the imputation process is slightly different. We start by imputing out-of-pocket expenditures in the two service categories in Wave 2A, nursing home expenses and all other medical expenses, both of which are reported at household-level by the Financial Respondent. If an exact amount is not provided, bracketed responses are available for both categories. There is an additional step in the imputation process for Wave 2A because the out-of-pocket expense also needs to be allocated to individuals in couple households.

Two different allocation processes are used for the spending categories. There is one couple household where both members report a nursing home stay. For this case, the household-level expense is allocated to the individuals based on the relative length of all stays. For all other households, the individual who has the nursing home stay is allocated the household-level amount. The imputation process is then carried out as described above at the individual level for out-of-pocket nursing home expenses.

The imputation for all other medical expenses is carried out at the household-level first, and then allocated to individuals in a second step. For consistency with other waves, values are derived for non-nursing home out-of-pocket expenses only if a Respondent reports using at least one service category other than nursing home stay, and reports having partial or no insurance for any of those categories. Consistent with other waves, if an exact expenditure is reported, we use that value. If an exact amount is not reported, we impute an exact amount using bracketed responses, using the same imputation algorithm that is used for income and wealth<sup>8</sup> and the same covariates that are used for medical expenditure imputations described above. For the household-level imputation, both male and female covariates are used. If the household is a single individual or if only one individual in a couple reports any utilization, the total imputed household-level amount is assigned to that individual.

Two additional imputation models are used in order to allocate the expense among the couples where both have any service not covered by insurance. In these models, the sample and covariates are at the Respondent level. In the first model, we assume the Financial Respondent is missing the expense and assign the Spouse the entire imputed household-level amount. In the second model, we reverse the situation, assuming the Spouse is missing the expense. We use the resulting imputed expenses only to calculate a proportion based on the Financial Respondent's expense imputed from the first model and the Spouse's expense imputed from the second. We use that proportion to allocate the imputed household-level expense to each individual. The individually allocated amount is then summed with the out-of-pocket nursing home expense.

In addition to the estimate of the Respondent's total out-of-pocket spending, we also provide the imputed household-level amount (H2OOPMD). For some households, no uncovered expenses are reported, but some out-of-pocket medical expenses (excluding nursing home) are. These probably represent expenses for services not specifically asked about, such as durable

<sup>8</sup>Again, we do not impute ownership for medical expenditures. See Section 3 for complete details on the Income and Wealth imputation methodology.

medical equipment or over-the-counter drugs. If no uncovered expenses are reported, H2OOPMD is set to zero, even if some out-of-pocket expense is given. A second version of total out-of-pocket expenses is imputed without restricting the sample to those reporting an uncovered medical expense. This is included on the file as H2OOPMA.

### 2.3.4.2 Total Medical Expenditures

Questions about total medical expenditures are asked in Waves 3-6, but Respondents are only asked to estimate an exact amount in Wave 3H. For Wave 3H, we provide variables that contain the imputed amounts (R3TOTMD) and brackets (R3TOTMBI). For Waves 3A, and for Waves 4-6, there are no questions asking about exact total medical expenditures. Rather, all Respondents are directed into unfolding bracket questions. For these waves, we impute complete brackets when incomplete bracket information is provided (RwTOTMBI) using the imputation methods described above.<sup>9</sup> Beginning in Wave 7, questions about total medical expenditures are dropped from the survey.

## 2.4. Wages

We construct wages using data on labor earnings and labor supply from the HRS Employment Section. This section focuses on the Respondent's main job. The HRS first asks Respondents whether they are currently working, unemployed, temporarily on leave, disabled, retired, or a homemaker. From individuals currently working for pay, the HRS asks to report normal hours per week and weeks per year worked on the main job. All individuals are asked whether they receive a regular salary, work by the hour, perform piecework, or get paid in some other manner. Regardless of the answer, they are then allowed to report their earnings from their main job in any interval they desire. That is, they can report their earnings as hourly, weekly, biweekly, monthly, yearly, or over some other interval. Self-employed individuals are also asked to report any profits they receive from their main job.

The RAND HRS Longitudinal File contains both hourly and weekly wages. Hourly are stored in variables RwWGIHR; weekly wages in RwWGIWK. We scale reported earnings up or down to arrive at hourly and weekly wages as necessary. For example, if a Respondent reports an hourly wage then we assign that as her/his hourly wage and multiply it by reported hours worked per week to calculate the weekly wage. Individuals reporting a weekly wage are assigned that as their weekly wage and their weekly wage divided by hours worked per week as their hourly wage. We include both hourly and weekly wages in the data so that a wage rate is available even if hours worked per week is missing. Annual wages are scaled down in a similar fashion by annual number of weeks worked. We assume that biweekly and monthly wages represent wages for two and 52/12 weeks, respectively. We treat self-employed profits identically to earnings. Flag variables indicate whether the wage rate is self-reported, derived from self-employed profits, or imputed (see below). We do not include overtime wages in our figures. All wages are reported in nominal dollars.

The wage rate variables are missing for individuals who are out of the labor force or who did not provide sufficient information to calculate an hourly or weekly wage. Out of the labor force includes retired, disabled, on temporary leave, and homemaker. The resulting data contain non-missing hourly wages for 7378, 6817, 5777, 7171, 6179, 4959, 6433, 5547, 4978, 7576, 6725 and 5909 individuals in Waves 1-12, respectively. Weekly wages are available for 7400, 6842, 5829, 7200, 6213, 4985, 6477, 5581, 5006, 7607, 6763 and 5947 individuals. The differences in missing rates arise from missing information on the number of hours worked per week. The increasing number of missing values across Waves 1-3 is due primarily to the increasing number of retirees, the increase in non-missing wages at Wave 4 is due to the addition of the CODA and WB cohorts, the increase at Wave 7 is due to the addition of the EBB cohort and the increase at Wave 10 is due to the addition of the MBB cohort. The means and medians of these calculated wages appear to be within reason across waves and are consistent with labor income reported in the assets and income section.

We imputed wages for the unemployed (408, 323, 233, 239, 207, 246, 313, 215, 238, 899, 661 and 416 individuals

<sup>9</sup>However, since the HRS does not ask for the exact amount of total expenditures (except in Wave 3H), we cannot impute these amounts by the nearest neighbor approach. Instead, we estimate an ordered logit model, and impute based on the predicted value plus a random draw from the residual distribution, analogous to the approach that was followed for open-ended brackets in the Income and Wealth imputations.

in Waves 1-12). We use two methods for imputing such wages. First, the unemployed are asked to report the wage on their last job since the previous interview. If available, we use that wage as the current wage. If not available, we take the wage reported in the previous wave. If that wage is not available either, we proceed backwards through successive waves until we find a valid wage for that individual. This includes using information from the individual's Wave 1 job history file, if necessary. The prior wage is then adjusted to the current interview year using CPI-U. This method produces an imputed wage for approximately 90 percent of unemployed individuals. For the remaining unemployed, we predict wages from the full sample using a regression of (the logarithm of) wages on age, age-squared, education, race, marital status, whether unemployed in any wave, and Census region of residence. We include flag variables (RwWGFHR for hourly and RwWGFWK for weekly wages) to indicate whether a wage rate was imputed, and which imputation method was used.

### 3. Income and Wealth Imputations

#### 3.1. Background

The RAND HRS data contain a number of income and wealth variables. Where missing, we impute their values. In this section, we give an overview of the question sequences and imputation methods. A detailed technical description can be found in Hurd, Meijer, Moldoff, and Rohwedder (2016).<sup>10</sup>

Most HRS and AHEAD questions on wealth and income follow the same pattern. Consider holdings of stocks and mutual funds as an example. First, the interviewer asks whether the Respondent (or her/his spouse or partner) owns any shares of stock or stock mutual funds. If affirmative, the interviewer asks the value of these stock holdings. If the Respondent is unable or unwilling to provide an exact amount, the interviewer asks whether it is more than \$25,000. If the answer is "more than \$25,000," the interviewer asks whether it is more than \$125,000, whereas if the answer is "less than \$25,000," the interviewer asks whether it is more than \$2,500. Depending on the responses, the ranges are narrowed down to \$0-2,500; \$2,500-25,000; \$25,000-125,000; \$125,000-400,000; \$400,000 or more. These ranges are known as "brackets," and the sequence of probes into increasingly narrow ranges are known as "unfolding brackets" questions. The brackets vary by asset and income category, and the cut-off values (also known as thresholds), though generally stable, can change between waves. For example, the cut-off values for dividend and interest income in HRS 1994 (Wave 2H) are \$200, \$500, \$2,500, and \$10,000, while in HRS 1996 (Wave 3H) they are \$1,000, \$5,000, and \$25,000.

The Respondent may opt out of the question sequence at any time. As a result, the raw data contain valid zero-value responses, exact amounts, complete bracket responses, incomplete bracket responses, claim of ownership without any information about the value, and unknown ownership. (We also use the term "ownership" to indicate whether a household or individual receives a certain kind of income or holds a certain kind of debt.) An incomplete bracket results if the Respondent provided some information about the value, but was unable or unwilling to respond through the last unfolding bracket probe. For example, if the Respondent indicated that the stock holdings amount to more than \$25,000, but did not say whether they are worth more than \$125,000, the range is an open-ended bracket of \$25,000 or more. A claim of ownership without value results if the Respondent indicated that s/he owns stocks, but revealed neither the exact amount nor a range. A claim of ownership without value is a special case of an incomplete bracket, namely an open-ended bracket of greater than zero dollars.

As an illustration, Table 3 shows the frequency distribution of response types on the ownership and value of stock holdings in HRS 1994 (Wave 2H). The stock holdings question is asked of the Financial Respondent in the household, and the unit of observation in the table is a household. The majority of Financial Respondents, 68.1 percent, report not owning any stocks (other than in retirement plans, which are not covered by this question). About one-fifth, 20.3 percent, own stocks and provide an exact value. All other categories require imputation.

<sup>10</sup>Hurd, M. D., E. Meijer, M. Moldoff, and S. Rohwedder (2016). Improved wealth measures in the Health and Retirement Study: Asset reconciliation and cross-wave imputation. Santa Monica, CA: RAND Corporation, Center for the Study of Aging. ([http://www.rand.org/pubs/work ing\\_papers/WR1150.html](http://www.rand.org/pubs/work ing_papers/WR1150.html))

**Table 3. Distribution of Response Types on Stock Holdings (HRS 1994)**

	Frequency	Percent
Continuous value	1,431	20.3
Complete bracket	487	6.9
Incomplete bracket	34	0.5
Owens, no value/bracket	111	1.6
No asset	4,803	68.1
Don't know ownership	66	0.9
No Financial Respondent	119	1.7
Total	7,051	100.0

Note the last category in Table 3 "No Financial Respondent." These are cases in which the HRS, for whatever reason, did not interview a Financial Respondent.<sup>11</sup> For those cases, virtually nothing is known about financial issues. The RAND HRS data contain imputed values for these households, but the user should be aware that these imputations are subject to potentially large errors. They may be identified through flag variables. For example, Table 3 is derived from variable H2AFSTCK ("H2AFSTCK:W2 Asst Flag:Stocks").

In summary, the data contain valid responses and several types of responses that require imputations. In decreasing order of informational content:

- Case 1: We may know a "complete" range of values;
- Case 2: We may know that the household owns the asset (or has the income type), but have no information on its value, or only coarse information in the form of incomplete brackets; or
- Case 3: We may not even know whether the household owns an asset, much less its value.

While the majority of income and asset questions follow the pattern described above, there are deviations.

Some questions, particularly income questions in HRS 1992 (Wave 1), do not probe for brackets if the Respondent is unable or unwilling to provide an exact amount. In the data, we classify missing responses in these cases as if there were unfolding bracket questions, but the Respondent refused to provide any range information, i.e., as Case 2 above.

Some interviewers in Wave 1 used so-called range cards instead of the sequence of unfolding bracket questions. This was especially prevalent for questions on the value of primary residence, mortgages, home loans, equity lines of credit, and debt. The range cards contain a list of ranges. For example, a card may have shown \$0-100; \$100-500; \$500-1,000; \$1,000-5,000; \$5,000-10,000; \$10,000 or more. The cards were intended for other purposes but were sometimes used inadvertently when Respondents were unable or unwilling to provide an exact amount.<sup>12</sup> Respondents who were presented a range card had instant knowledge of all cut-off values, as opposed to gradual access in unfolding bracket questions. The cut-off values on the range cards were typically different from those in the appropriate unfolding bracket sequence. We treat responses from range cards in the same way as complete brackets, i.e., Case 1 above. Naturally, we account for the cut-off values on the range cards, even if they are different from those in the unfolding bracket sequence.

<sup>11</sup> In some households, a Financial Respondent was designated, but in fact provided no financial data, perhaps due to a partial interview that ended before the main financial section of the survey was conducted. For some of these cases, house and mortgage information may have been provided but no other wealth or income data was collected in the main income and wealth module which follows the housing module in the survey instrument. For imputation of income and non-housing wealth, cases missing the entire module of financial data are treated as though there is no Financial Respondent.

<sup>12</sup> The Wave 1 interview was face-to-face; subsequent interviews were conducted mostly by telephone. For all subsequent waves, interviews with Respondents 80 years of age or older, as well as initial interviews (for all cohorts and new cohorts), are also conducted face-to-face. Starting with the HRS 2006 wave, about half of the sample is interviewed face-to-face (to facilitate the collection of additional content), and half is interviewed by telephone.



Starting in HRS 1998 (Wave 4), the "entry point" of the unfolding bracket sequence was randomized in questions about assets. In other words, Respondents who were unable or unwilling to provide an exact amount were asked whether the value was more than a certain value, where that value varied across Respondents. The underlying idea was to reduce any response bias that may arise from the value of the entry point ("acquiescence bias"). We ignore the fact that the entry point varied across Respondents and process the resulting information in the same way as in previous waves.

Also starting in Wave 4, interviewers were able to record a new response. For example, suppose the interviewer asked "Is the amount greater than \$5,000, less than \$5,000, or what?" The potential answers now are "less than \$5,000," "about \$5,000," and "more than \$5,000." In earlier waves, the second response was combined with the first or third response. The additional option is present at each subsequent branch. Where the Respondent indicates that the amount was "about" equal to a certain value, we take that value as an exact response and do not impute anything. However, this is still classified as a complete bracket in the imputation flag variable and not as a continuous amount. We treat range responses in the same way as those in earlier waves.

Finally, some cut-off values of specific asset and income questions changed between waves, as did the entry point. In addition, the way unfolding bracket information is presented in the raw data changes over time, from variables representing the "yes/no" questions through Wave 5, to variables summarizing them as a "minimum/maximum" of the range in Wave 6 forward. This did not affect the resulting response types.

### 3.2. Imputation Process

The HRS public release files provide imputations for many asset and income types in earlier waves, but the imputation method is not consistent across all waves, and there are no imputations in more recent waves. The RAND HRS data contain imputations of all asset and income types using a consistent method for all waves. Beginning with HRS 2006, RAND has provided the income and asset imputations for the HRS. The RAND HRS Longitudinal File contains aggregate measures of income and assets. The RAND HRS Detailed Imputations File is a more complete and detailed file, containing all partial component imputations in addition to the aggregate measures, and is available on the HRS website (<http://hrsonline.isr.umich.edu/data/index.html>).

As defined previously, there are three types of missing values that require separate types of imputation. Correspondingly, we have developed three progressive imputation steps: to impute an exact amount, given that a range is known; to impute a range, given that ownership or only incomplete range is known; and to impute ownership, in case nothing is known. Table 4 illustrates the type of imputation necessary for each type of missing value.

The imputation process is progressive in the sense that we first impute ownership for those for whom nothing is known. Given ownership, we impute brackets. Given brackets, we impute exact amounts. We always use all available information. In particular, where incomplete brackets are known, we impute complete brackets in the given range.

**Table 4. Response Types and Required Imputations**

Reported Information	Required Imputation
Continuous value	None
Complete bracket	Amount
Incomplete bracket	Bracket, Amount
Owns, no value/bracket	Bracket, Amount
No asset	None
Don't know ownership	Ownership, Bracket, Amount
No financial Respondent	Ownership, Bracket, Amount

### 3.2.1. Ownership Imputation

To impute ownership, we first estimate a logistic regression model of ownership based on the sample of Respondents with non-missing ownership information for the asset or income type at issue. The covariates are discussed below. Next, we calculate the predicted probability of ownership for households with missing ownership information. Finally, we draw a random number from a uniform distribution between zero and one. We impute ownership if the predicted probability exceeds the random number and non-ownership otherwise.

The estimation sample varies by asset and income type. For example, a household that reports whether they own their primary residence, but does not report that they own stocks or mutual funds, enters the estimation sample for ownership of the former, but not the estimation sample for ownership of the latter.

In some waves and for some asset and income types, ownership is rare and the logistic regression model fits the data poorly. Instead of imputing on the basis of a logistic model, we randomly assign ownership with a probability of ownership found in the nonmissing sample. This is equivalent to fitting a logistic model without covariates. We apply this procedure for assets in waves with fewer than 50 households reporting ownership.

### 3.2.2. Bracket Imputation

We impute brackets for asset owners and income recipients (imputed and reported) who do not report a continuous value and do not fully complete the questionnaire bracketing sequence on asset or income value. First, we estimate an ordered logit model based on the sample of households who do not report a continuous value but do complete the bracketing sequence. The covariates are discussed below. Next, we calculate the predicted probabilities of being in each bracket for Respondents with missing or incomplete bracket information. For those who partially complete the bracketing sequence, we calculate conditional probabilities based on the range of possible values from their answers. Finally, we draw a random number from a uniform distribution between zero and one and assign a bracket based on a comparison of the random number with the cumulative distribution of range probabilities.

For some asset and income types, notably Wave 1 incomes, no bracket questions were asked. For these items, this step is skipped and we treat the strictly positive dollar range as a single large open-ended bracket.

Beginning in Wave 4, those households who do not report a continuous value at the first opportunity but do give an "about" response during the unfolding bracket sequence of questions are included in the logit model. Probabilities are then estimated for being in each bracket and each cutpoint value. Households imputed to one of the cutpoint values need no amount imputation for that particular component.

For some asset and income types, fewer than 50 households completed the bracket sequence in a certain wave. If this is the case, we follow the same strategy as with ownership in such situations. That is, we impute the bracket using only the marginal probabilities and no covariates. In some rare cases, there is not even enough information in the marginal probabilities, and we skip the bracket imputation and impute amounts directly. This happens when only one complete bracket range is reported (so this would otherwise get probability 1), or when the incomplete bracket range reported is completely outside the range of the reported complete bracket ranges.

### 3.2.3. Amount Imputation

We impute exact amounts for all cases with (reported or imputed) bracket information. The procedure is different for cases in closed vs. open-ended brackets.<sup>13</sup> For closed brackets, we use a "nearest neighbor" approach; for open-ended brackets, a tobit-based approach. The following discusses the two approaches in turn.

In the nearest neighbor approach for closed brackets, we first estimate a linear regression model based on the sample

<sup>13</sup> A closed bracket has finite cut-off values; an open-ended bracket is, for example, \$500,000 or more, so the upper limit is infinite.

of households who report an exact continuous value. The covariates are discussed below. The distribution of asset and income amounts tends to be roughly lognormal, so we would like to apply a logarithmic transformation to the outcome (asset, income) variable. However, some outcomes, such as business income, may be negative. The frequency with which this occurs is very low - too low to allow for a fully flexible model specification.

Instead, we therefore apply the inverse hyperbolic sine transformation<sup>14</sup> and use this as the dependent variable. Next, we compute predicted values for all cases, both with and without exact amounts. For each missing observation in a closed bracket, we find the household that is closest in *predicted value*, among the households that report an exact amount within that bracket. This is the nearest neighbor. We then impute the actual value reported by the nearest neighbor.

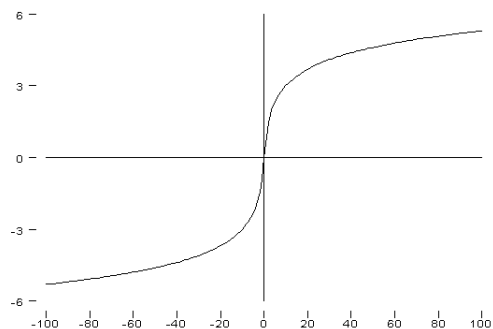
For some asset and income types, fewer than 50 households reported a continuous value in a given wave. In this case, instead of a nearest neighbor from a regression model, a donor household is found using a conditional hotdeck procedure. This can be viewed as a nearest neighbor method without covariates, but because there are multiple households that are equally near (i.e., they all gave continuous answers that fall in the given bracket), one is chosen at random.

Another exception is that sometimes there are not enough donors in the given bracket, where we define "not enough" as being less than two observations. In this case, a value within the bracket is imputed from a lognormal regression model. This is similar to the tobit procedure discussed below, but includes all positive values in the estimation.

In exploratory work, we applied the nearest neighbor method to missing amounts in both closed and open-ended brackets. However, we found that the resulting imputations generated implausible distributions at the top of the distribution. The data contain some outliers which the nearest neighbor approach selects with too high a frequency to be plausible. We therefore developed an alternative approach for open-ended brackets.

For missing observations in open-ended brackets, we estimate a separate model. In essence, we estimate a lognormal regression model. However, as indicated above, the observed distributions differ from the lognormal distribution because there occasionally are negative values, and in general the smaller observed values do not fit the lognormal distribution as well. But we only use this model for imputing values in the upper bracket, so the goal is to approximate the right tail of the distribution closely. Therefore, we first censor observations in the bottom 25 percent of the outcome variable. That is, we keep the information that they are less than the 25th percentile, but not the actual values. This ensures that the values used in the estimation are all positive and that their distribution is close to (censored) lognormal. Based on this sample of non-missing observations, we estimate a censored regression (tobit) model. The covariates are discussed below. The dependent variable in this model is a logarithmic transformation of the actual amount, and the residuals on this scale are assumed to be normally distributed and homoskedastic. We then compute predicted values of the log-amount for missing observations. To preserve the spread of the distribution of outcomes in the imputations, we add a draw from the residual distribution to this log-amount, and then untransform (exponentiate) the result. The residual distribution is assumed to be

<sup>14</sup>The inverse hyperbolic sine transformation is given by  $y = \ln(Y + \sqrt{Y^2 + 1})$ . For positive values of outcome Y, not close to zero, this transformation closely mimics the logarithmic transformation. Only for small amounts, on the order of between -\$10 and +\$10 is the transformation appreciably different from the logarithmic transformation. The transformation is point-symmetric around zero. It may be graphed as:



If the logarithmic transformation were added to this graph, it would be indistinguishably close on the north-east quadrant (up to a scale factor).

normal (with a zero mean and a standard deviation equal to the estimated standard deviation of the residual in the tobit regression model), but truncated from the left to ensure the resulting value is in the top bracket. Note that this truncation point is higher than the censoring point used in the estimation.

For some asset and income types, fewer than 100<sup>15</sup> households report a continuous value in certain waves. If this is the case, we follow an analogous strategy as with ownership and bracket in such a case. That is, we impute the value using only the marginal distribution and no covariates, where the marginal distribution is a truncated lognormal distribution. We have implemented this by estimating the aforementioned tobit model, but omitting the covariates, and imputing the value accordingly.

### 3.2.4. Covariates

The number of model specifications in the imputations is large. There were four waves of data when these methods were initially developed, with well over a dozen asset and income types, and each requires four equations. We have experimented extensively with model specifications. On the one hand, we would like to select covariates that predict the outcome variables best. On the other hand, we would like the specifications to be parsimonious and consistent across asset and income types. Consistency across asset and income types has caused problems with asset and income types where only small samples are available. In the end, we have opted for the same set of covariates in all asset model specifications (ownership, bracket, and amount for all asset types) and another set in the income specifications. The sets are formed by principal components of approximately 30 underlying covariates. For income imputations, the underlying covariates include (transformations of) husband and wife's employment status, education, health status, age, race, marital status, occupation class,<sup>16</sup> cognition, and bequest expectations. For wealth imputations, the same set applies, but excludes employment status and includes a number of income amounts (imputed, when necessary) and indicators of pension or government benefit receipt. We have found that the first ten principal components results in model fits that in most cases are very close to the fit from the larger set of covariates, with very few sample size issues. (The previous sections have explained what we do in cases where there are sample size issues.) The set of regressors varies slightly across waves, and the principal component loadings are computed separately for each wave. For example, Table 5 shows summary statistics and loading of the covariates that make up the principal components of the Wave 2 income imputations.

When there is no Financial Respondent, the income variables are not available as covariates for the assets, and therefore a smaller set of underlying covariates is used. To impute these cases, we compute principal components from this more limited set of covariates, and estimate the corresponding imputation models. Thus, this doubles the number of imputation models used.

The imputations using this set of covariates should be satisfactory for many purposes. Comparisons of the resulting distributions of income and assets with distributions from external sources (e.g., asset distributions from the Survey of Consumer Finances) indicate that the income and asset distributions match well. If they differ substantially from distributions in other surveys, the distributions in the HRS often seem to be more plausible. However, the imputations are sometimes less satisfactory for analyses of longitudinal patterns, especially for asset changes between waves. In particular, when a household reports a "no value/bracket" or "don't know ownership," this method may lead to large changes between waves, more than is to be expected in the population, because the method does not take the correlation (or persistence)

<sup>15</sup>We use 100 here rather than the 50 used for the other models, because the estimates of the tobit models with covariates were still unstable with sample sizes between 50 and 100.

<sup>16</sup>Beginning in Wave 8 (2006), HRS changed the coding of occupation from the 1980 U.S. Census Occupation Codes to those for 2000 (a supplemental file has since been released for Wave 7 (2004) that uses the 2000 U.S. Census Occupation Codes as well). One of the covariates we use in the imputation process is an indicator for whether or not a person's occupation is defined as "professional" (See Table 5, M\_PROF and F\_PROF). The 1980 codes were collapsed into 17 categories, and determining who was professional was relatively straightforward (See JMW201AM in the HRS 2004 codebook for a list of these categories). Specifically, we defined professionals as anyone in the first two categories (i.e., "Managerial specialty operation," or "Professional specialty operation and technical support").

The 2000 U.S. Census Occupation Codes were used for Wave 7 (2004) to Wave 10 (2010) (a supplemental file has since been released for Wave 10 that uses the 2010 Census Occupational Classification System as well). The 2000 codes were collapsed into 25 categories, which were quite different from the 17 categories produced using the 1980 codes. We determined that the first 11 categories could appropriately be considered professional occupations (see KMW201AM in the HRS 2006 codebook for a list of these categories).

The 2010 Census Occupational Classification System was used for Waves 10, 11 and 12 (2010, 2012 and 2014). The 2010 codes were collapsed into 23 categories, and are not that different from the 25 categories produced using the 2000 codes. Therefore, the first 10 categories were considered professional occupations (see NMW201AM in the HRS 2012 codebook for a list of these categories). In the end, we evaluate all of the information described above regarding occupation when deriving the "professional" covariate.

across time into account. Therefore, starting with Version M of the RAND HRS data, we provide cross-wave imputations of asset variables, which take information from adjacent waves into account.

**Table 5. Loadings on the First Two Principal Components  
(Wave 2 Income Imputations)**

Variable	Mean	Std. Dev	Loadings on		Description
			First comp't	Second comp't	
BEQ10	61.54	42.43	0.3161	-0.0659	Probability Bequest \$10,000+
BEQ10M	0.0527	0.2234	-0.1275	0.1216	Bequest \$10,000 missing
BEQ100	31.80	40.39	0.3005	-0.0426	Probability Bequest \$100,000+
BEQ100M	0.0568	0.2315	-0.1206	0.1137	Bequest \$100,000 missing
M_COLLEG	0.1533	0.3603	0.2301	-0.0222	Male: College Graduate
F_COLLEG	0.1245	0.3302	0.1497	-0.1261	Female: College Graduate
M_HSGED	0.3966	0.4892	0.1478	0.1595	Male: HS Diploma or GED
F_HSGED	0.5304	0.4991	0.1070	0.0215	Female: HS Diploma or GED
M_EXHLTH	0.3529	0.4779	0.2878	0.0334	Male: Excellent/Very Good Health
F_EXHLTH	0.4283	0.4949	0.2433	-0.0877	Female: Excellent/Very Good Health
M_PRLTH	0.1747	0.3797	-0.1116	0.2327	Male: Fair/Poor Health
F_PRLTH	0.2008	0.4006	-0.2309	0.0735	Female: Fair/Poor Health
M_PROF	0.2167	0.4120	0.2556	0.0338	Male: Professional Work
F_PROF	0.2083	0.4061	0.1651	-0.1146	Female: Professional Work
M_WORK	0.4577	0.4982	0.2505	-0.0690	Male: Currently Working
F_WORK	0.4883	0.4999	0.1310	-0.2138	Female: Currently Working
M_UNEMP	0.0202	0.1407	-0.0130	-0.0059	Male: Unemployed
F_UNEMP	0.0214	0.1446	-0.0317	-0.0432	Female: Unemployed
M_DISAB	0.0923	0.2895	-0.1174	0.1384	Male: Disabled/Temp Laid Off
F_DISAB	0.0967	0.2955	-0.2017	0.0272	Female: Disabled/Temp Laid Off
M_RETIR	0.2014	0.4011	0.0747	0.3713	Male: Retired
F_RETIR	0.0978	0.2971	0.0308	0.1844	Female: Retired
AGE	58.67	4.85	0.0179	0.4604	Age of Oldest Partner
AGESQ	3466.24	580.22	0.0177	0.4621	Squared Age of Oldest Partner
SINGLFEM	0.2308	0.4214	-0.2663	-0.3016	Single Female Financial Respondent
MARRIED	0.6722	0.4694	0.2827	0.2611	Married Couple
NONWHITE	0.2908	0.4542	-0.2290	-0.0191	Non-White Financial Respondent
MISSCOGN	0.0906	0.2871	-0.1056	0.0846	Missing Cognition Score
LOWCOGN	0.2804	0.4492	-0.1135	0.0702	Low Cognition Score

The cross-wave imputations add a few covariates to the models: In addition to the 10 principal components, we include the (inverse hyperbolic sine of) the value of the asset in the previous wave and the (inverse hyperbolic sine of) the value of the asset in the next wave. If there is a strong persistence in asset values over time, including these past and future values should capture this, and lead to imputations that show smoother patterns across time. If in the adjacent wave, the asset is not owned, we include zero as its value, and we include dummies for whether the household owns the asset in the previous and next wave. Changes in marital status (where we treat cohabitation the same as marriage, as is usual in the HRS) have potentially large effects on wealth, and therefore, in this case, wealth changes should be less smooth. Therefore, we also include a set of dummies for such changes: divorce or separation, death of the spouse/partner, or remarriage/new partnership. There is one set for changes between last wave and the current wave and one set for changes between the current wave and the next wave. See Hurd et al. (2016) for details of the definitions.<sup>17</sup>

If the household does not report a continuous value (or a no asset response) in an adjacent wave, we have a missing

<sup>17</sup>Hurd, M. D., E. Meijer, Study: Asset reconciliation and cross-wave imputation. Santa Monica, CA: RAND Corporation, Center for the Study of Aging. ([http://www.rand.org/pubs/work\\_ing\\_papers/WR1150.html](http://www.rand.org/pubs/work_ing_papers/WR1150.html))

covariate, and thus we cannot impute the value for the current wave. To solve this problem, we first compute cross-sectional imputations (i.e., without the cross-wave information) for each household, and then use the cross-sectional imputation of the adjacent wave as the covariate in the current wave. However, for households for which we have no adjacent wave information, this still does not solve the issue. This happens when a household enters the sample (the first wave a cohort is entered); in the latest wave; or when a household does not participate in a wave. For imputing these cases, we use imputation models that include the cross-wave information from only the previous wave or only the next wave, whichever is applicable. If neither previous nor next wave information is available for a household, we use the cross-sectional imputation.

In principle, all imputation models are wave-specific. That is, principal components are computed for each wave separately, and coefficients of the covariates in the imputation models are computed for each wave separately. However, the number of marital status changes is typically too small to estimate the coefficients of these dummies with enough precision in each wave separately. Therefore, we use all waves jointly to estimate these coefficients. That is, we estimate wave-specific coefficients for all covariates except the indicator variables for the change in marital status.

### 3.3. Asset Verification

After a successful experiment in 2001, described in Hill (2006)<sup>18</sup>, the HRS added the *asset verification* section (section U; also called *asset reconciliation* section) to the questionnaire in 2002. Whenever there is a large discrepancy, defined as more than \$50,000, between an asset value in the previous wave and the value of the same asset in the current interview, the Respondent is asked to verify, or correct when necessary, the asset values in the previous and current wave. The idea behind this is that large changes in asset values are rare and therefore, if we see them in the data, there may have been a reporting error or data entry error, which we want to correct. The Respondent is only asked these verification questions if the same (financial) Respondent reported the asset in both waves and total wealth differs by more than \$150,000. The former is for disclosure reasons and the latter is to avoid flagging portfolio rebalancing (e.g., selling stocks and buying bonds instead).

In HRS 2002 and HRS 2004 (Waves 6 and 7), Respondents were asked about at most three assets in the asset verification section. From 2006 onward, Respondents could potentially be asked about all assets that were checked in this section, although it does not happen often that a Respondent is asked to verify more than a few assets. There are other changes between waves, for example in the preloaded information from the previous wave and how it is used. See Hurd et al. (2016) for the details.<sup>19</sup>

Starting with Version M, the RAND wealth measures take corrections from the asset verification section into account. These corrections precede the imputations. First, corrections for the current wave are implemented. Then, corrections of the previous wave's value are evaluated. If the asset is not asked about in the previous wave's asset verification section, then we implement the correction of the previous wave's value. If the asset is also asked about in the previous wave's asset verification section, we generally use the result from the previous wave's asset verification section (the contemporaneous one). However, we inspect all cases where the results from the previous wave's asset verification section and the current wave's asset verification section differ by more than a factor of 9 to catch gross errors, in particular accidental errors in the number of zeros.

The corrections from the asset verification section occasionally lead to some complications, such as inconsistent data that cannot occur in the main questionnaire because of the main questionnaire's skip patterns, and complications with the implementation of the imputation methods. An example of the former is that the main questionnaire has a branch of questions in case the primary residence is a mobile home, and another branch of questions if it is another type of dwelling. In some cases the corrections from the asset verification section lead to the household having a number in both branches. We check all such cases and determine what is the most reasonable way to interpret the data and then make it consistent with the logic of the (main) questionnaire. An example of a complication with the imputations is where unfolding bracket

<sup>18</sup>Hill, D. H. (2006). Wealth dynamics: Reducing noise in panel data. *Journal of Applied Econometrics*, 21, 845-860

<sup>19</sup>Hurd, M. D., E. Meijer, M. Moldoff, and S. Rohwedder (2016). Improved wealth measures in the Health and Retirement Study: Asset reconciliation and cross-wave imputation. Santa Monica, CA: RAND Corporation, Center for the Study of Aging. ([http://www.rand.org/pubs/work\\_ing\\_papers/WR1150.html](http://www.rand.org/pubs/work_ing_papers/WR1150.html))

thresholds are not always the same. See Hurd et al. (2016)<sup>20</sup> for the details and how we dealt with these issues.

### 3.4. Substantive Differences Across Waves

In addition to survey-technical changes between waves and the introduction of the asset verification section, there have been a few changes that may affect the comparability of asset values across waves. We discuss the most important changes.

#### Notable Differences between Waves HRS 1992 (Wave 1) and HRS 1994 (Wave2)

*Net value of vehicles:* Wave 1 includes a measure of the value of a recreational vehicle or motor home in the Housing Section and a measure of the value of other vehicles in the Asset Section. We separately impute these values and sum them. For Wave 2, the two components are incorporated into one measure of the net value of vehicles in the Asset Section.

#### Notable Differences between HRS 1994 (Wave 2) and HRS 1996 (Wave 3)

*Asset income:* In Waves 1 and 2, asset ownership and value are asked in the Asset Section, whereas income from assets is asked separately in the Income Section. Starting in Wave 3, income from asset questions were incorporated in the Asset Section. For example, if the Respondent indicated owning stocks, the interviewer followed up with a question about dividends. This increased the response rate for asset income. Assuming that this increases the quality of responses, it also improves the accuracy of our asset imputations, because asset income is an explanatory covariate of our imputation model.

*Net value of IRA/Keogh accounts:* In Waves 1 and 2, Respondents were asked to report the total value of all Individual Retirement Account (IRA) and KEOGH accounts. In Wave 3, separate questions were asked about the largest, second largest, and all other accounts.

#### Notable Differences between HRS and AHEAD (Waves 2 & 3)

##### *HRS 1994 and AHEAD 1993 (Wave 2)*

AHEAD 1993 has a very different structure than HRS 1994. With the exception of Social Security benefits, SSI and food stamps, Respondents are expected to specify the types of income received. For example, they are asked if they have "any regular income," and if so, they are asked to identify the source. So there are no specific questions such as "Do you receive any income from pensions?" However, they can describe up to 4 regular incomes per partner, and up to 3 household investment incomes. The result is many separate components for those combined in other waves, such as stock income and veterans' benefits. Specific question wording differences are described in the "Cross-Wave Differences in Original HRS Data" subsections in the codebook.

##### *HRS 1996 and AHEAD 1995 (Wave 3)*

The structures of HRS 1996 and AHEAD 1995 are very similar. However, there are several notable differences. These are outlined under the "Cross-Wave Differences in Original HRS Data" subsections in the codebook.

#### Notable Differences between HRS 1998 (Wave 4), HRS 2000 (Wave 5) and HRS 2002 (Wave 6)

The structures of Waves 4, 5, and 6 are very similar. Any important differences are specified under "Cross-Wave Differences in Original HRS Data" subsections in the codebook.

<sup>20</sup>Ibid.

### **Notable Differences between HRS 1998 (Wave 4) through HRS 2002 (Wave 6) and HRS 2004 (Wave 7) and later**

The structures of questions from Wave 7 forward are very similar to those in Waves 4 to 6. However, Waves 7 and later no longer ask for income from trusts and alimony specifically. One can assume that these types of income would now be reported with non-specific other income. We have looked at this for cases that previously did report alimony or trust income, and found that other income did not increase as one might expect.

### **Notable Differences between HRS 2000 (Wave 5) and HRS 2002 (Wave 6) and later**

In Wave 5, Respondents who are 65 years of age or older, and report not working for pay in the last calendar year, skip the questions about income from unemployment and worker's compensation. Respondents who are younger than 65 years of age, on the other hand, are asked both sets of questions, even if they are not working. From Wave 6 onward, the same pattern is true for Respondents who are 65 years of age or older. However, those who are younger than 65 years of age, and report not working for pay in the last calendar year, are asked the questions about income from unemployment, but skip those related to worker's compensation.

### **Notable Differences between HRS 2006 (Wave 8) and HRS 2008 (Wave 9) and later**

*Business assets reported earlier in the interview:* Beginning in Wave 6, after the value of business or farm assets is collected, a question (Q492) asks whether these assets were reported previously in the interview. Beginning in Wave 9, a follow-up question was added which asks Respondents to indicate what percentage was previously reported (Q523). For example, in Wave 9, about 30% of business owners indicate that they had reported their business wealth as either primary residence (which could be a farm or ranch), secondary residence, or other real estate earlier in the interview (Q492 = yes), and of these, most say that all of the business asset was previously reported (Q523 = 100%). These two variables are available in the RAND HRS Detailed Imputations File for the convenience of the analyst, and can be used for adjusting total wealth to reflect the amount of wealth that is twice reported. We do not use these two variables in the imputations or derivations of any of the variations on total wealth.

*Housing loan question wording:* In the housing section, there is a series of questions about whether the Respondent has "...a mortgage, land contract, second mortgage, or any other loan that uses the property as collateral." In Wave 9, the qualifier "Do not include reverse mortgages" was added.

### **Notable Differences between HRS 2008 (Wave 9) and HRS 2010 (Wave 10) and later**

*Food stamps:* The questions asking about number of months receiving food stamps changed in Wave 10. Specifically, questions are only asked for up to four "eligible years." For example, a person interviewed in 2011 and 2008 is asked questions about food stamp receipt in 2008, 2009, 2010, and 2011. Prior to Wave 10, Respondents can report on food stamp receipt for several years prior to the current interview year.

*Income from annuities:* Beginning in Wave 10, Respondents who report receiving income from annuities, but a value of "0" is indicated for the amount received last month (which indicates that payments have not started yet, or the Respondent did not receive a payment last month) are asked a new sequence of questions about any income they may have received from those annuities last year. Similar questions are asked of spouses/partners. No unfolding bracket questions are asked.

## **References**

- Hill, D. H. (2006). Wealth dynamics: Reducing noise in panel data. *Journal of Applied Econometrics*, 21, 845-860.
- Hurd, M. D., E. Meijer, M. Moldoff, and S. Rohwedder (2016). Improved wealth measures in the Health and Retirement Study: Asset reconciliation and cross-wave imputation. Santa Monica, CA: RAND Corporation, Center for the Study of



Aging ([http://www.rand.org/pubs/work ing\\_papers/WR1150.html](http://www.rand.org/pubs/work ing_papers/WR1150.html)).

## 4. Poverty Threshold Definitions and HRS Measures

The RAND HRS Longitudinal File includes a measure of poverty beginning in Wave 6 (2002). We use the [poverty threshold levels from the U.S. Census Bureau](#) and family composition to determine the poverty threshold that applies to an HRS family. We then compare the HRS family income to the appropriate poverty threshold. The [methods used by the U.S. Census Bureau to measure poverty](#) are normally applied to CPS data to arrive at national poverty rates. The two key definitions for applying these methods to HRS families are income and family composition.

The family composition depends on the number of resident family members, the number under 18, and the age of the head of household if there are one or two in the family. People living in institutions, such as nursing homes and college dormitories, are not included when counting resident family members.

Income includes before-tax income from:

- earnings, unemployment, workers' compensation
- Social Security, SSI, public assistance, veterans' benefits
- Medicare Part B premiums deducted from Social Security<sup>21</sup>
- pension and retirement income
- interest, dividends, rents, royalties, income from estates and trusts
- educational assistance
- alimony, child support
- assistance from outside the household
- other sources
- income of all resident family members

Income does not include:

- noncash benefits, e.g., food stamps
- capital gains and losses

We assume that educational assistance and other sources would have been reported as "other income" in the HRS, but it is likely that at least some assistance from outside the household may not be included in any of the HRS income categories.<sup>22</sup> The HRS total household income, e.g., as calculated in H6ITOT on the RAND HRS Longitudinal File, less food stamps, and including Medicare Part B premiums deducted from Social Security, would seem to be close to the Census definition of income, with the exception of income from resident family members besides the Respondent and spouse. Note that RAND HRS total household income is for the last calendar year, e.g., 2001 for income reported at the 2002 interview and 2003 for income reported at the 2004 interview.

Questions ask about the income of resident family members, including the earnings of each and total non-job income of them all. With these questions, we can estimate income of all resident family members, which is not included in HwITOT.

<sup>21</sup>For historical information regarding Medicare Part B premiums, see <https://fas.org/sgp/crs/misc/R40082.pdf>.

<sup>22</sup>Notably the HRS question wording for "other income" specifically excludes income from family and friends. The Census definition of assistance from outside the household indicates that this includes "periodic payments people receive from non-household members. This type of assistance excludes gifts or sporadic assistance." HRS questions on income transfers from children do not specify whether the amounts are periodic or sporadic, so we have decided not to include these in the income used to determine poverty threshold.

## 4.1. Method

We construct a poverty status variable to be consistent with that produced using the Census definitions, within the limitations of the HRS data, as follows:

1. Make household resident observations from the work and earnings questions, identified by sub-household ID and OPN.
2. Merge with the household member/child roster.<sup>23</sup>
3. Keep people who are resident and related to the Family Respondent (FamR) or spouse. This includes current and ex-relations (codes=3-19, 27, 28, 30, 31, 33, 90, 91) who have a status code indicating residency (=1).<sup>24</sup> Please see "Summary of Data Issues" later in this section for a discussion of residents who are away, and income year versus residence year.
4. Impute non-core household member income, including earnings and non-job income. The method used for these imputations is described below ("Imputing Household Member Income").
5. Count # of residents and residents under 18<sup>25</sup> by sub-household.
6. Merge with core data, including imputed income, whether a couple, and age(s) of Respondents.
7. Adjust the number of household members by the number of core HRS in the family (one or two).
8. Assign family to a Census category to retrieve the appropriate poverty threshold. Use age of the only, or male, non-institutionalized HRS Respondent to determine if head is 65 or older in one- or two-person households.<sup>26</sup> The family category is provided on the file, as is the corresponding poverty threshold.
9. Adjust family income. The adjusted family income is provided on the file.
  - (a) Starting with HwITOT, subtract food stamps, and add Medicare Part B premiums deducted from Social Security
  - (b) Add in earnings for all non-core residents.
  - (c) Add in total non-job income for non-core family residents.
10. Compare family income<sup>27</sup> to poverty threshold for the family to determine:
  - (a) Whether below the poverty level (0=No and 1=Yes)
  - (b) Ratio of family income to poverty threshold.

Both these measures are provided on the file.

<sup>23</sup>There are some household residents from the income section that do not appear on the roster. Of the 9 residents in 2002, 5 have the OPN 997 (not available this release), and 4 have normal looking OPNs. In 2004, there are 5 such cases with normal looking OPNs. Since we cannot determine relationship for these people, we drop their income and do not count them as resident family members.

<sup>24</sup>We assume the household member is non-resident if the status code is missing, and non-family if the relationship code is missing.

<sup>25</sup>If the birth year of a resident family member is missing we use logical imputation to determine whether s/he is 18 or older. Among those not missing birth year in 2002, those working or married are 18 or older 94% and 98% of the time, respectively. So those who are working, married, with a move date 18 years prior to the interview, or with a relationship of sibling or parent are assumed to be 18 or older. Grandchildren who are not working or married are assumed to be under 18. For the remaining cases still missing, we used the skip pattern for the work question, which was not asked for those under 16 years old. We assumed that those missing whether worked are under 16, and hence, under 18.

<sup>26</sup>We ran a version using age of Financial Respondent instead. This did not make a difference in poverty status, but does have some impact on the family category. Note that it is also possible that one of the non-core family residents would be considered "head" by the CPS.

<sup>27</sup>A few hundred 2002, 2004, 2006, 2008, 2010, 2012 and 2014 interviews are actually conducted in 2003, 2005, 2007, 2009, 2011, 2013 and 2015 respectively, and thus report 2002, 2004, 2006, 2008, 2010, 2012 and 2014 income. If the Financial Respondent's interview year is 2003, 2005, 2007, 2009, 2011, 2013 or 2015, we use the CPI to adjust income to 2001, 2003, 2005, 2007, 2009, 2011 or 2013 dollars, as appropriate, before doing the comparison.

## 4.2. Summary of Data Issues

*Income year versus residence year:* Income measures are from the last calendar year, e.g., 2001, but family composition is from the interview year, e.g., 2002. At this time, we use the family composition as is reported in the household roster at the time of the interview, but use last calendar year as the reference year for income, poverty thresholds, and ages of household members.

*Residents who are away and HRS core living in a nursing home:* The CPS definition does not include family members who are living in an institution. We provide two sets of poverty status variables, one in which we are consistent with the Census definition and exclude institutionalized family members, and another where we include them. In both versions we do include family members temporarily away, as this is consistent with the CPS samples. Specifically the two versions of the poverty variables differ as follows:

1. *CPS-consistent version:* We do not count core HRS Respondents who live in a nursing home at the time of the interview, and we further adjust total household income by subtracting their individual income. In HRS households where all core Respondents are institutionalized, all the poverty measures are set to missing. We also do not count or add in the income of non-core residents who have a status of "away in an institution." If this leaves no non-core family residents, we exclude any other family member income.
2. *Version including institutionalized family members:* In this version we count all core HRS Respondents (including non-responding spouses in couple households) and include their income in the total for the household. We also count non-core family residents who are away in an institution and include their income.

## 4.3. Variables Included on the RAND HRS Longitudinal File

At this time, these variables are only constructed for Respondents beginning in Wave 6. The variables are all constructed at the household level and merged back to HRS Respondents:

Description	CPS-Consistent Variable, excluding institutionalized family members	Version including institutionalized family members
Whether family income is below the poverty threshold	HwINPOV	HwINPOVA
Ratio of family income to poverty threshold	HwINPOVR	HwINPVRA
Poverty threshold for the family in prior year (i.e., 2001 for Wave 6 and 2003 for Wave 7)	HwPOVTHR	HwPVTHRA
Family composition used to determine poverty threshold	HwPOVFAM	HwPVFAMA
Adjusted family income compared to the poverty threshold <sup>28</sup>	HwPOVHHI	HwPVHHIA

<sup>28</sup>These variables reflect the CPI adjustment to 2001 (2003 for W7, 2005 for W8, 2007 for W9, 2009 for W10, 2011 for W11, or 2013 for W12) dollars if the interview was conducted in 2003 (2005, 2007, 2009, 2011, 2013 or 2015), i.e., if the income reported is for 2002 (2004, 2006, 2008, 2010, 2012 or 2014).

In addition we include HwNHMLIV, which summarizes the nursing home residence of the core HRS Respondents:

- 0 = none reside in a nursing home
- 1 = one of a couple resides in a nursing home
- 2 = both in a couple reside in a nursing home
- 3 = the household is a single-Respondent who resides in a nursing home

For cases with codes of 2 or 3, the CPS-consistent measures are set to a SAS special missing value (.I, for institutionalized).

#### 4.4. Imputing Household Member Income

We impute earnings and non-job income for non-core resident household members who are related to one of the HRS Respondents. In the Assets and Income section of the survey, questions (where "[x]" is the interview-specific variable prefix, i.e, H, J, K, L, M, N, and O for 2002, 2004, 2006, 2008, 2010, 2012, and 2014 respectively) ask whether each household resident, 16 or older (OPN=[x]Q431), works ([x]Q432), and if so, how much income was earned in the last calendar year:

[x]Q433: About how much money did ([Person Name]) earn from all jobs in ([LCY\_A]<sup>29</sup>), before taxes and other deductions?

There is also a question about total non-job income of all resident family members:

[x]Q437: Not including job income, about how much in total did other members of your family living (here/there) receive in ([LCY\_A]) from Social Security, pensions, welfare, interest, gifts, or anything else, (before taxes and other deductions)?

Both questions collect a continuous value and, if missing, unfolding bracket values.

We used the same methods used to impute income and wealth to impute these income measures, described elsewhere in this document.

Earnings are imputed if missing for resident household members at least 16 years old and related to one of the HRS Respondents in the household. Imputations are done at the household member level, separately for single and couple HRS households.<sup>30</sup>

If the family member is under 16 or not working, we assume no earnings if missing. For the remainder, ownership is determined by whether the family member is working. If whether working is missing we impute ownership. We then impute complete brackets for cases with missing or incomplete brackets, and finally, we impute earnings.

Total non-job income of resident family members is imputed if missing for all households with any resident family members, including those temporarily away, regardless of whether in an institution or not. One value is reported or imputed for each household with resident family members. Thus these imputations are done at the household level.

Among the continuous values reported, about 60% report a zero for this type of income in Wave 6. We assume no ownership if zeros are reported, and ownership if a value over zero is given or if any bracket information indicating a range (complete or incomplete) is provided. If the value is missing and no unfolding bracket questions are answered, we impute ownership. We then impute complete brackets for cases with missing or incomplete brackets that have, or have been imputed to have, this type of income. Based on these complete brackets, a continuous value is imputed.

The covariates used for these imputations include HRS core measures: total household income (HwITOT), total household assets (HwATOTA), and age(s), health, education, race, and work status of HRS core Respondents. Other covariates include the number of resident family members under and over 18 years old and their mean age. In the earnings imputations, additional covariates reflecting the household member's age, sex, marital status, and relationship are also included.

<sup>29</sup>"LCY\_A" is last calendar year relative to the interview year.

<sup>30</sup>HRS income tends to be lower, and household member income higher, in single compared to couple households. This may indicate that HRS singles with other household residents are parents moving in with their children, whereas HRS couples are taking in adult children.

## 5. Social Security and SSI Disability Episodes

The HRS collects information on whether Respondents have applied for and received benefits from various disability programs, including Social Security disability insurance (SSDI), Supplemental Security Income (SSI), Veterans' benefits, and workers' compensation. We have developed a set of variables that represent multiple episodes of application and receipt of SSDI and SSI over the panel.

SSDI is available only if the Respondent has contributed long enough to be eligible. SSDI can be awarded on the basis of income without the same contribution requirements as SSI eligibility. A disabled person may receive benefits from both SSDI and SSI. The typical process begins with an application to the disability program. If denied benefits, one can then appeal the decision or re-apply. Benefits may be awarded either after the original application or re-application or the application may be rejected. Finally, benefits may stop, or in the case of SSDI, transition to SSI old-age benefits when the Respondent reaches the full retirement age.

Each application process is considered an episode in developing these variables from the information provided by HRS. The HRS collects information on the steps outlined above and on when each step is initiated and when the benefits stop. An episode may begin in one wave and be continued over several subsequent waves, for as long as the Respondent receives benefits. Our derived variable, RADNEPI, indicates the number of episodes a Respondent has reported. Additional documentation on these variables is described in more detail in Section E: Social Security.

Note that we observe the application process only at interviews. It is possible that what we see is incomplete because the interview questions do not capture all of the details. For example, if a person reports receiving benefits at one wave, and still receives them at the next, we assume the benefits arise from the same application, and in some cases, the same program. But it is possible that the benefits being received are from a different one. There are questions about new applications since the last interview, even if a Respondent reports still receiving benefits from a prior wave, but we do not attempt to untangle whether a new application is related to the benefits reported as continuous. We assume it is different and begin another episode.

These variables are developed using information found in the Disability section of the HRS. There are about 130 cases with at least one illogical sequence of dates (e.g., date of benefits is after application date). There is additional information in the Income section regarding SSDI and SSI that could be used to further inform these data, but we do not consider it in this version. Specifically, we have noticed that if a Respondent reports receiving SSDI in the Disability section, s/he sometimes does not report receiving SSDI in the Assets and Income section and vice versa. Therefore, beginning in Wave 9, a new variable (RADISABF) has been derived to document and explain these differences, which can be found in Section E: Social Security.

### 5.1. Program Type

The HRS questions about SSDI and SSI combine the two programs in interviews before 2000. Beginning in 2000, the questions ask about these programs separately. If a person is receiving benefits at her/his previous interview, s/he is asked in 2000 which program provides them. If the Respondent reports receiving from only one program, the active episode is assigned a type of either SSDI or SSI as appropriate. If a person reports receiving benefits from both programs, we duplicate the active episode and assign one as SSDI and one as SSI, before updating with information from 2000. Information about any new applications is collected separately and each new application begins a separate episode.

If a person was receiving benefits in 2000, then s/he is again asked which program provides them. If the same program type is reported at both interviews, we update the appropriate episode accordingly. If a person receives benefits from both programs in 2000 and 2002, the two active episodes are updated separately. Sometimes a Respondent appears to change programs from 2000 to 2002, e.g., s/he reports receiving benefits from SSI in 2000 but from SSDI in 2002 without a new application. In this scenario, the benefit reported in 2002 is treated as a continuation of the benefit initially reported in 2000,

and the type of program is flagged as ambiguous. If a person reports receiving benefits from both programs in 2000 but only one in 2002, we end the episode for the program that is omitted. If a person reports receiving from only one program in 2000 but from both programs in 2002, we duplicate the active 2000 episode and update both with 2002 information. Similar methods are applied to episodes continued across waves in later waves as well, e.g., in 2004 for episodes continued from 2002.

## 5.2. Episode Status

The normal sequence of steps entails application, and if denied, possibly re-application or appeal, award and receipt of benefits, the end of benefits, application rejected, and benefits not awarded. The most common states of an episode at the end of an interview are receiving, stopped receiving benefits, and not awarded, in that order. A status of applied or appealed/re-applied indicates that a Respondent is last observed with a pending application for the episode. An episode with a status of applied, appealed/re-applied, receiving, or not awarded is considered active, and may be updated with information from subsequent interviews.

A status of not awarded does not necessarily mean the application has been rejected, especially in earlier waves. The specific language of a rejected application is introduced for new applications in 1998. Indeed, some Respondents report that benefits were not awarded in one interview, but then say they are still receiving benefits at the next interview and indicate a receive date between interviews. Prior to 1998, it appears that most Respondents reporting any disability activity at the previous interview are asked if they are still receiving benefits even if they never reported being awarded benefits.

If an initial application for benefits is reported in a wave, then we will track information reported in subsequent waves to determine the outcome of the initial application. Here are some examples of our logic: (1) If a Respondent denies receiving benefits and the status at the previous interview indicates the Respondent had not reported receiving benefits, then we code the initial application as rejected. (2) Similarly, if the Respondent reports s/he is not still receiving benefits and s/he had not previously reported being awarded benefits, we code the application as rejected. In this case, there is a possibility benefits were received for a short time. (3) If a Respondent denies receiving benefits and previously reported that benefits had stopped, the denial confirms the prior wave report. (4) If a Respondent has never reported receiving benefits and reports s/he stopped receiving benefits in one wave and then denies receiving benefits in a subsequent wave, we code the application as rejected—i.e., that benefits were never received.

In some cases an episode is unresolved, i.e., there is an active episode, but the thread is dropped. That is, either no information is given about whether a Respondent is still receiving benefits and a new application is begun, or a Respondent indicates having active episodes for both programs but at the next wave indicates only one. These episodes are given an illogical ending status that indicates what the status was when the thread was dropped.

In some cases it is possible that the appropriate follow-up questions at the next interview are not asked and the episode is thus left somewhat in limbo. These episodes may appear to be still active since no further activity is observed.

## 5.3. Episode Dates

Dates of application, re-application or appeal, and benefit receipt start and stop are collected for each episode. They appear in the raw data as month and year. If the date is missing, we attempt to provide an estimated date. The process of estimating a date entails identifying the upper and lower bounds within which the date may fall. For instance, the upper bound for when the Respondent started receiving benefits would be set based on a stop date if it is known, or the current interview date if a stop date is unknown, and a lower bound would be based on the application or appeal date. Lower and upper bounds for each applicable step are determined. The lower bounds for applications, particularly the first, look at dates of disability, including when the disability began to interfere with work, when a Respondent reports a disabled employment status, and the last month worked. To be used, a date must come before any determined upper bound. If none of these dates is available

and before the upper bound, we use a lower bound set to age 18, or, if this does not fit, we use the Respondent's birth date. The estimated date is set to the midpoint between the lower and upper bounds.<sup>31</sup>

Estimated dates are adjusted to ensure that they occur in the expected order, e.g., applications occur before appeals and receipt of benefits and receipt of benefits occurs before they stop. If the originally given month and year, or just year is valid, we do not adjust outside the given information. In some cases the dates will seem illogical, because that is the way they were reported. There are about 130 cases with at least one illogical sequence of dates.

## 5.4. Variables

The disability variables we have developed include the dates of application, re-application or appeal, start of benefits, and when benefits stop. Each application begins a new episode, with its own set of dates and its own status. For each episode date, we provide the month and year as presented in the data, recoded for missing values, and a "best-guess" date which is stored as a SAS date. From the month and year, the analyst can tell how much information was originally provided. The specific variables are listed in Table 4.

The variables begin with "RA" because they are not wave-specific. If they are specific to a particular episode they end with a number, indicating the sequence of the episode. The second to last character of the date variables is "M" for month, "Y" for year, and "D" for SAS date.

We continue to include the disability variables previously provided in the RAND HRS Longitudinal File; these indicate if any of the steps, except stopping benefits, has ever been reported, and if so the earliest date. From Wave 5 forward, a variable with the amount being received has also been added. Amount received is not available before Wave 5.

**Table 6. Disability Episode Variables**

Measure	Description	Variables
<b>Number episodes</b>	Count, at most 11 as of Wave 12	RADNEPI
<b>Application date</b>	Month Year "Best-guess" SAS date	RADAPPM1 to RADAPPM11 RADAPPY1 to RADAPPY11 RADAPPD1 to RADAPPD11
<b>Appeal or Reapply date</b>	Month Year "Best-guess" SAS date	RADREAM1 to RADREAM11 RADREAY1 to RADREAY11 RADREAD1 to RADREAD11
<b>Receive date</b>	Month Year "Best-guess" SAS date	RADRECM1 to RADRECM11 RADRECY1 to RADRECY11 RADRECD1 to RADRECD11
<b>Stop date</b>	Month Year "Best-guess" SAS date	RADENDM1 to RADENDM11 RADENDY1 to RADENDY11 RADENDD1 to RADENDD11
<b>Type</b>	1=SSDI 2=SSI 3=DK which 4=SSDI/SSI at different waves	RADTYPE1 to RADTYPE11
<b>Current Status</b>	Indicates if applied, receiving, stopped receiving, or illogical ends	RADSTAT1 to RADSTAT11

<sup>31</sup>The RAND HRS Longitudinal File does not include the lower and upper bound dates used to derive the estimated date. Please contact us at [randhrshelp@rand.org](mailto:randhrshelp@rand.org) if you would find these dates useful; we can provide them in a separate file.

## 6. Structure of Codebook

The Appendix contains the codebook documenting all variables in the RAND HRS Longitudinal File. This section explains how to interpret the codebook entries. The figure below shows a typical codebook page; the numbers in circles correspond to comments below.

Current Marital Status: Current Partnership Status				1
Wave	Variable Name	Variable Label	Type	
2	1 → R1MPART	R1MPART:W1 R partnered	Categ	4
	2 R2MPART	R2MPART:W2 R partnered	Categ	
	3 R3MPART	R3MPART:W3 R partnered	Categ	
3	4 R4MPART	R4MPART:W4 R partnered	Categ	
	5 R5MPART	R5MPART:W5 R partnered	Categ	
	6 R6MPART	R6MPART:W6 R partnered	Categ	
	7 R7MPART	R7MPART:W7 R partnered	Categ	
	8 R8MPART	R8MPART:W8 R partnered	Categ	
	9 R9MPART	R9MPART:W9 R partnered	Categ	
	10 R10MPART	R10MPART:W10 R partnered	Categ	
	11 R11MPART	R11MPART:W11 R partnered	Categ	
	12 R12MPART	R12MPART:W12 R partnered	Categ	
	1 S1MPART	S1MPART:W1 S partnered	Categ	
	2 S2MPART	S2MPART:W2 S partnered	Categ	
	3 S3MPART	S3MPART:W3 S partnered	Categ	
	4 S4MPART	S4MPART:W4 S partnered	Categ	
	5 S5MPART	S5MPART:W5 S partnered	Categ	
	6 S6MPART	S6MPART:W6 S partnered	Categ	
	7 S7MPART	S7MPART:W7 S partnered	Categ	
	8 S8MPART	S8MPART:W8 S partnered	Categ	
	9 S9MPART	S9MPART:W9 S partnered	Categ	
	10 S10MPART	S10MPART:W10 S partnered	Categ	
	11 S11MPART	S11MPART:W11 S partnered	Categ	
	12 S12MPART	S12MPART:W12 S partnered	Categ	

### 5 Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MPART	12652	0.03	0.17	0.0	1.0
R2MPART	19642	0.02	0.14	0.0	1.0
R3MPART	17991	0.02	0.14	0.0	1.0
R4MPART	21384	0.03	0.16	0.0	1.0
R5MPART	19579	0.03	0.16	0.0	1.0
R6MPART	18165	0.02	0.16	0.0	1.0
R7MPART	20129	0.03	0.18	0.0	1.0
R8MPART	18469	0.03	0.18	0.0	1.0
R9MPART	17217	0.03	0.18	0.0	1.0
R10MPART	22034	0.05	0.22	0.0	1.0
R11MPART	20554	0.05	0.23	0.0	1.0
R12MPART	18747	0.05	0.22	0.0	1.0
S1MPART	9900	0.04	0.19	0.0	1.0
S2MPART	13088	0.03	0.16	0.0	1.0
S3MPART	11915	0.03	0.16	0.0	1.0
S4MPART	13978	0.03	0.18	0.0	1.0



S5MPART	12730	0.04	0.19	0.0	1.0
S6MPART	11639	0.03	0.18	0.0	1.0
S7MPART	12972	0.04	0.21	0.0	1.0
S8MPART	11735	0.05	0.21	0.0	1.0
S9MPART	10646	0.05	0.22	0.0	1.0
S10MPART	13513	0.08	0.27	0.0	1.0
S11MPART	12488	0.08	0.27	0.0	1.0
S12MPART	11027	0.08	0.27	0.0	1.0

## 6 Categorical Variable Codes

Value	R1MPART	R2MPART	R3MPART	R4MPART	R5MPART	R6MPART	R7MPART
0.No	12267	19234	17605	20833	19059	17715	19479
1.Yes	385	408	386	551	520	450	650

Value	R8MPART	R9MPART	R10MPART	R11MPART	R12MPART
0.No	17851	16619	20867	19439	17748
1.Yes	618	598	1167	1115	999

Value	S1MPART	S2MPART	S3MPART	S4MPART	S5MPART	S6MPART	S7MPART
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9534	12723	11608	13497	12265	11234	12391
1.Yes	366	365	307	481	465	405	581

Value	S8MPART	S9MPART	S10MPART	S11MPART	S12MPART
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11182	10122	12479	11501	10143
1.Yes	553	524	1034	987	884

## 7 How Constructed

Marital status RwmSTAT indicates partnership, that is, living with a partner who is not R's spouse. In addition some cases report an unmarried status but have a partner in the same household. Another living individual with the same HHID and sub-household ID on the Tracker file or in the core data indicates the presence of a partner when R gives an unmarried status. From Wave 4 forward, the "coupleness" code in the Cover Sheet section can also indicate a partnership. RwMPART indicates the presence of a partner regardless of the RwmSTAT code.

The spouse variable SwMPART is taken from the spouse's data for Wave "w." In some cases, the spouse and Respondent disagree as to whether they are married or partnered, so RwMPART and SwMPART are not always the same in a given wave. SwMPART is set to .U if R is unmarried and unpartnered or .V if R's spouse or partner did not respond in a given wave.

## 8 Cross Wave Differences in Original HRS Data

Partnership is indicated by a marital status code in Waves 1 to 3H. From Wave 4 forward, it is indicated by a separate Cover Sheet section variable.

Partnership can also be indicated by a non-married status when the household is a couple rather than single in any wave.

Beginning with Tracker 2002.V2 the surviving spouse sometimes retains the spouse PN of the deceased Respondent. In previous versions of Tracker this was not the case.

## 9 HRS Variables Used

HRS 1992:	
V10225	A10:CURRENT MAR STAT:IND
V225	A10:CURRENT MARR STA:IMP
AHEAD 1993:	
B150	A11. R'S MARITAL STATUS
HRS 1994:	
W200	A1. Marital Status
AHEAD 1995:	
DMSTATR	HRS 95: Marital Status (w/ partnered)
HRS 1996:	
E256A	MARRIAGE STATUS - CORRECTED
HRS 1998:	
F1071	A43A.MARITAL STATUS, ASSIGNED
F546	CS15D.CURRENT COUPLENESS
FMARSTP	HRS 98: Marital Status (w/ partnered)
HRS 2000:	
G1158	A43A.MARITAL STATUS_ASSIGNED
G597	CS15D.CURRENT COUPLENESS
GMARSTP	HRS 00: Marital Status (w/ partnered)
HRS 2002:	
HMARITAL	MARITAL STATUS
HMARSTP	HRS 02: Marital Status (w/ partnered)
HPN_SP	2002 SPOUSE/PARTNER PERSON NUMBER
HSUBHH	HRS 2002 SUB-HOUSEHOLD ID (Char)
HX065_R	COUPLENESS STATUS - UPDATED
HRS 2004:	
JPN_SP	2004 SPOUSE/PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
JX065_R	COUPLENESS STATUS - UPDATED
HRS 2006:	
KPN_SP	2006 SPOUSE/PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
KX065_R	COUPLENESS STATUS - UPDATED
HRS 2008:	
LPN_SP	2008 SPOUSE/PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
LX065_R	COUPLENESS STATUS - UPDATED
HRS 2010:	
MPN_SP	2010 SPOUSE/PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
MX065_R	COUPLENESS STATUS OF INDIVIDUAL-UPDATED

---

HRS 2012:

NPN_SP	2012 SPOUSE/PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
NX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED

HRS 2014:

OPN_SP	2014 SPOUSE/PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED

Tracker:

APPN	1992 SPOUSE-PARTNER PERSON NUMBER
ASUBHH	1992 SUB-HOUSEHOLD IDENTIFIER
BPPN	1993 SPOUSE-PARTNER PERSON NUMBER
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CALIVE	1994 VITAL STATUS
CPPN	1994 SPOUSE-PARTNER PERSON NUMBER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
DALIVE	1995 VITAL STATUS
DPPN	1995 SPOUSE-PARTNER PERSON NUMBER
DSUBHH	1995 SUB-HOUSEHOLD IDENTIFIER
EALIVE	1996 VITAL STATUS
EPPN	1996 SPOUSE-PARTNER PERSON NUMBER
ESUBHH	1996 SUB-HOUSEHOLD IDENTIFIER
FALIVE	1998 VITAL STATUS
FPPN	1998 SPOUSE-PARTNER PERSON NUMBER
FSUBHH	1998 SUB-HOUSEHOLD IDENTIFIER
GALIVE	2000 VITAL STATUS
GPPN	2000 SPOUSE-PARTNER PERSON NUMBER
GSUBHH	2000 SUB-HOUSEHOLD IDENTIFIER
HALIVE	2002 VITAL STATUS
HHID	HOUSEHOLD IDENTIFIER
HPPN	2002 SPOUSE-PARTNER PERSON NUMBER
HSUBHH	2002 SUB-HOUSEHOLD IDENTIFIER
JALIVE	2004 VITAL STATUS
JPPN	2004 SPOUSE-PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
KALIVE	2006 VITAL STATUS
KPPN	2006 SPOUSE-PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
LALIVE	2008 VITAL STATUS
LPPN	2008 SPOUSE-PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
MALIVE	2010 VITAL STATUS
MPPN	2010 SPOUSE-PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
NALIVE	2012 VITAL STATUS
NPPN	2012 SPOUSE-PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
OALIVE	2014 VITAL STATUS
OPPN	2014 SPOUSE-PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER

---

1

*Title:* The variables are documented in groups according to the concept that they measure. For example, there are ten variables related to self-reported health, corresponding to five waves and Respondent/spouse. The title is often followed by a short description of the concept that is captured.

2

*Variable Names:* This entry shows the names of variables in the group. Not all variables are present on all files. For example, R1SHLT is present only on the first file, R2SHLT on the second, etc.

- 3 *Variable Labels*: This entry shows the SAS/Stata variable labels. As discussed above, the labels typically include the name of the variable, the file on which it is present, and a description of its contents.
- 4 *Variable Type*: This entry indicates the type of variable. It may be continuous (Cont), categorical (Categ), or character (Char).
- 5 *Descriptive Statistics*: This entry shows descriptive statistics on each variable. They include the number of nonmissing values, the mean, standard deviation, minimum value, and maximum value.
- 6 *Categorical Value Codes*: This entry shows the value label codes. These are only relevant for categorical variables. The first character(s) of the value labels indicate the value to which each label has been assigned. For example, value "1" is mapped into "1. Excellent" (not just "Excellent"). The entry also indicates which labels are assigned to which variables, and shows frequency tabulations for all categorical variables.
- 7 *How Constructed*: This entry provides background on the manner in which variables were constructed.
- 8 *Cross Wave Differences in Original HRS Data*: This entry briefly describes differences in question wording or contents between interview waves.
- 9 *HRS Variables Used*: This entry provides the names and labels of raw HRS variables that were used to construct the new variables.

## 7. Distribution and Technical Notes

The RAND HRS Longitudinal File is distributed with the following:

- Documentation: an electronic version of this documentation.
- Programs: source code of programs that were used to derive the RAND HRS Longitudinal File and the RAND HRS Detailed Imputations File. All programs are written in SAS.
- SAS files: all waves of data in SAS format, compatible with Version 8 or later.
- Stata files: all waves of data in Stata format, compatible with Version 11 SE or later.
- SPSS files: all waves of data in SPSS for Windows format, compatible with Version 18 or later.

This is Version 3 of the RAND HRS Longitudinal File 2014.

We suggest that you create a directory for these files and subdirectories for the pieces, for example:

C:\randhrs\doc	for this file
C:\randhrs\programs	for the programs
C:\randhrs\sasdata	for the SAS files
C:\randhrs\stata	for the Stata files
C:\randhrs\spss	for the SPSS files

## 7.1. Distribution files for Web Download

The files can be downloaded from the HRS web site (<http://hrsonline.isr.umich.edu>), once you have registered to use HRS data. They are zipped for downloading; you must unzip them to make them usable. They are available for download as an entire package or documentation only. There are three different format packages: SAS, Stata 11 SE and SPSS 18 for Windows.

SAS and Stata formats differ in value labels and missing value codes. The SAS format is the most comprehensive. Stata allows value labels for integer values only, so no value labels are available for non-integer values. Beginning with Version 8, Stata supports multiple codes for missing values (.X, .S, .M, etc.). SPSS does not support multiple missing codes.

**RAND HRS Data Distribution Files**

Distribution file name	Included Files	Description
randhrs1992_2014v3_SAS.zip	randhrs1992_2014v3.pdf	Codebook
	randhrs1992_2014v3.sas7bdat	Dataset (SAS): All waves merged
	randhrspgm1992_2014v3.zip	RAND HRS Programs (SAS)
	randhrsimppgm1992_2014v3.zip	RAND HRS Imputation Programs (SAS)
	sasfmts.sas7bdat	Formats (SAS)
randhrs1992_2014v3_STATA.zip	randhrs1992_2014v3.pdf	Codebook
	randhrs1992_2014v3.dta	Dataset (Stata 11 SE): All waves merged
	randhrspgm1992_2014v3.zip	RAND HRS Programs (SAS)
	randhrsimppgm1992_2014v3.zip	RAND HRS Imputation Programs (SAS)
randhrs1992_2014v3_SPSS.zip	randhrs1992_2014v3.pdf	Codebook
	randhrs1992_2014v3.sav	Dataset (SPSS 18): All waves merged
	randhrspgm1992_2014v3.zip	RAND HRS Programs (SAS)
	randhrsimppgm1992_2014v3.zip	RAND HRS Imputation Programs (SAS)

## 7.2. Programs and Macros

The SAS programs used to derive the variables in the RAND HRS Longitudinal File and the RAND HRS Detailed Imputations File are included in the data distribution. When you unzip those for the RAND HRS Longitudinal File (randhrspgm1992\_2014v3.zip), it will create a `homer\A\RANDHRS\VerQ\` directory, within which are `Mac\`, `Fmt\`, and `Pgm\` subdirectories where the SAS macros, formats, and programs used to derive the variables are stored, respectively. Within `Pgm\` are multiple subdirectories corresponding to a specific function. These are:

- Demog: programs that derive demographic and family structure variables
- Health: programs that derive health variables
- Wealth: programs that derive wealth variables
- Income: programs that derive income variables
- Pension: programs that derive pension variables
- SS: programs that derive social security variables
- Ins: programs that derive insurance variables
- Retire: programs that derive retirement variables
- Emp: programs that derive employment variables
- Mrg: program that pulls most raw variables needed by other programs

- MrgQ: program that combines the data from section-specific files

The unzip will also create a `homer\A\HRSAHEAD\` subdirectory where the poverty threshold programs and imputation macros can be found.

The programs begin with the RAND versions of the "raw" HRS data, the RAND HRS Fat Files. These are individual datasets for each wave of the HRS, which take nearly all the variables from each survey module, and merge them into a single respondent-level file. Household level variables are assigned to each Respondent in the household and, where the household level data applies to an individual, self and spouse variables make clear to whom those data belong. The RAND HRS Fat Files are available to registered users in the "HRS Biennial Data Products" section of HRS's "Data Downloads" page, and contain "Core Fat Files...RAND" in the title. Additional information about the RAND HRS Fat Files can be found on our website at <http://www.rand.org/labor/aging/dataproduct.html>.

Beyond this document, the programs provide a precise record of how variables in the RAND HRS Longitudinal File were derived. If you would like to make different assumptions than we did, you can copy parts of our code and modify decisions we made. There are also a few files that you may find useful.

The `Pgm\setuphrs.inc` file sets up SAS data libraries, gives locations of the macro files and format library, and includes common RAND HRS SAS macros. It also assigns a macro variable (`&maxwv`) to the last wave available in this version of the data. You can modify this file to your system and then include it at the top of your SAS programs to simplify these tasks. An example is given below. To use this file, you will need to modify it for your system. The file itself contains comments on what you need to change.

There are two macros that may be useful. They are *wvlist* and *wvlabel*, and can be found in the files `Mac\wvlist.mac` and `Mac\wvlabel.mac`. The *wvlist* macro makes a list of variables with the same stem for all waves, e.g.:

```
%wvlist(r,nmar mdiv mwid mend)
```

would insert the following in your code:

```
R1MRCT R2MRCT R3MRCT R4MRCT R5MRCT R6MRCT R7MRCT R8MRCT R9MRCT R10MRCT R11MRCT R12MRCT
R1MDIV R2MDIV R3MDIV R4MDIV R5MDIV R6MDIV R7MDIV R8MDIV R9MDIV R10MDIV R11MDIV R12MDIV
R1MWID R2MWID R3MWID R4MWID R5MWID R6MWID R7MWID R8MWID R9MWID R10MWID R11MWID R12MWID
R1MEND R2MEND R3MEND R4MEND R5MEND R6MEND R7MEND R8MEND R9MEND R10MEND R11MEND R12MEND
```

The *wvlabel* macro assigns labels to variables for all waves, e.g.:

```
%wvlabel(r,mrct,%str(R # marriages));
```

assigns variable labels to R1MRCT, R2MRCT, etc.

Details on the usage of these macros can be found in the comments at the beginning of the `wvlist.mac` and `wvlabel.mac` files themselves. For instance, you can limit their effects to a range of waves, rather than all 12.

The *addsp* macro will add spouse versions of variables to your data. It can be found in the `Mac\addsp.mac` file. If you derive your own variables and use the same variable naming convention as is used in this dataset, you can use *addsp* to add the spouse's information with the "S" prefix instead of "R" on the variable name. For example:

```
%addsp(R4MYVARA %wvlist(R,MYVARB),infile,outfile);
```

would make S4MYVARA, S1MYVARB, S2MYVARB, S3MYVARB, S4MYVARB, S5MYVARB, S6MYVARB, S7MYVARB, S8MYVARB, S9MYVARB, S10MYVARB, S11MYVARB and S12MYVARB by reading the R-versions of these variables from "infile" for the appropriate spouses, renaming them as an S-version, and adding it to "infile" variables to make "outfile". The created S-variables are labeled and the .V and .U missing values are assigned as appropriate. The SwHHIDPN, SwIWSTAT, RwmSTAT, and RwmPART variables must be available on "infile".

To use the `setuphrs.inc`, `wvlist.mac`, `wvlabel.mac`, and `addsp.mac` files, a typical program would begin with:

```
%include "[dir]\setuphrs.inc"; /* this includes the macros too */
libname mylib "[name of folder to store your files]";

data mylib.myfile;
    set randhrs.randhrs1992_2014v2 (keep=HHIDPN ...);
    [...]
```

### 7.3. The SAS Format Library

Many of the derived variables on this file have been assigned SAS formats, or value labels. There are also SAS formats that are used to look up values using the SAS PUT function in data steps. For instance, the format library includes yearly CPI-U values in this form.

We are no longer distributing SAS formats as a format catalog. Instead we are providing SAS code to allow the researcher to create their own formats catalog on any computing platform.

To create a formats catalog, assuming `sasfmts.sas7bdat` is in `C:\randhrs\sasdata`, simply run the following code:

```
libname library "C:\randhrs\sasdata";
proc format library=library cntlin=library.sasfmts;
run;
```

This SAS code will create a file called `C:\randhrs\sasdata\formats.sas7bcat`

The formats can be found in text format in one of the `Fmt\*.fmt` files and are all included in a SAS dataset (`sasfmts.sas7bdat`).

#### 7.3.1. Using (or Not Using) the SAS formats

To use them from the SAS format library you must include a `LIBNAME LIBRARY` statement:

```
LIBNAME LIBRARY "&fmtlib";
```

Where `"&fmtlib"` is the name of the directory where the `formats.sas7bcat` file is stored. You can either put this statement in your SAS programs, e.g.:

```
LIBNAME LIBRARY "c:\randhrs\sasdata";
```

where the format file is `C:\randhrs\sasdata\formats.sas7bcat`, or use `"%include setuphrs.inc"` where you have set the macro variable `&fmtlib` to the name of the appropriate directory.

If you do not have the `LIBNAME LIBRARY` statement in your program, SAS usually gives you an error message and stops processing, unless you specify `NOFMterr` on an `OPTIONS` statement.

If you prefer not to use the assigned SAS formats, you can use the following statement in SAS PROC steps or just after a `SET` or `MERGE` in a data step to unassign all formats:

```
FORMAT _ALL_ ;
```

You can then assign formats as you wish. The format assignments we assigned to variables can be found by running a `PROC CONTENTS` on the data files. They are also listed in `*.format` files located in subdirectories of the `Pgm\` directory. For example, the `SS\ss_p.format` file contains the SAS `FORMAT` statement that assigns Social Security variables to their formats.

### 7.3.2. Consumer Price Index (CPI-U)

These deflation factors are based on the Bureau of Labor Statistics' series of Consumer Price Index for All Urban Consumers (CPI-U), All Items. In this series, 1982-84 is normalized to 100. For details see <http://www.bls.gov/cpi>. The index is stored in a SAS format called CPI. To get the CPI-U for a year you can use the following in a SAS data step:

```
cpiu=put (ayear,CPI.);
```

Where "ayear" is the name of a variable containing the 4-digit year for which you want the CPI-U and "cpiu" is the name of the variable that will hold the index for that year. "CPI." is the name of the SAS format that has the indices for all available years. The CPI format is stored on the `sasfmts.sas7bdat` file provided with this dataset.

### 7.4. Using the Data with Other HRS Files

To use these data with other HRS files, including the RAND HRS Fat Files, you should be able to simply merge by HHIDPN. All RAND files are already sorted by this ID so should not need to be resorted. For instance to merge additional data from all waves of the RAND HRS Fat Files with RAND HRS Longitudinal File, you could use the following:

```
%include "[dir]\setuphrs.inc";
  libname mylib "[name of folder to store your files]";
data mylib.newfile;
  merge randhrs.randhrs1992_2014v2 (keep=HHIDPN [list of other variables])
    hrs.hd92f1b (keep=HHIDPN [list of raw core variables])
    hrs.ad93f2a (keep=HHIDPN [list of raw core variables])
    hrs.h94f1a (keep=HHIDPN [list of raw core variables])
    hrs.ad95f2b (keep=HHIDPN [list of raw core variables])
    hrs.h96f4a (keep=HHIDPN [list of raw core variables])
    hrs.hd98f2c (keep=HHIDPN [list of raw core variables])
    hrs.h00f1c (keep=HHIDPN [list of raw core variables])
    hrs.h02f2d (keep=HHIDPN [list of raw core variables])
    hrs.h04f1b (keep=HHIDPN [list of raw core variables])
    hrs.h06f3a (keep=HHIDPN [list of raw core variables])
    hrs.h08f3a (keep=HHIDPN [list of raw core variables])
    hrs.hd10f5d (keep=HHIDPN [list of raw core variables])
    hrs.h12f2a (keep=HHIDPN [list of raw core variables])
    hrs.h14f2a (keep=HHIDPN [list of raw core variables]);

  by HHIDPN;
```

where "[list of (other/raw core) variables]" would be replaced by a list of the SAS variables you want to include. You can omit the KEEP option to include all the variables from a given dataset, but in this example the output file would be extremely large if you did so for all the files listed.

If you have HRS data files which use the character version of HHIDPN, the RAHHIDPN variable provides the 9-character equivalent of HHIDPN, filled with leading zeros, the format that corresponds to the concatenated HHID and PN character IDs provided in the raw HRS data. You may wish to rename HHIDPN to NHHIDPN and RAHHIDPN to HHIDPN or whatever variable name you have used on your other HRS data files. HHID and PN are also included as separate variables in the above files, and can be used to perform the merge as well.

For Stata and SPSS users, you can find example programs on our web site at <http://www.rand.org/labor/aging/dataproduct/helphrs.html>.



## 8. Data Codebook

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## Appendix A

**1624**

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## **Section A: Demographics, Identifiers, and Weights**

### Person Specific Identifier

Wave	Variable Name	Variable Label	Type
1	HHIDPN	HHIDPN: HHold ID + Person Number /Num	Cont
1	HHID	HHID: HHold ID / 6-Char	Char
1	PN	Person Number (CHAR)	Char
1	RAHHIDPN	RAHHIDPN: HHold ID + Person Num /9-Char	Char

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
HHIDPN	37495	256784263.5	248369575.7	1010.0	959738010.0

### How Constructed

HHID is the 6-character HRS household identifier, and PN is the 3-character person number. Together, HHID and PN uniquely identify each individual in the HRS public-release data. On the RAND HRS Longitudinal File, they are provided separately and, for convenience, in combination as HHIDPN and RAHHIDPN.

HHIDPN is the numeric version of the combined household and person identifier that identifies each Respondent uniquely. It is set to  $\text{HHID} \times 1000 + \text{PN}$ . RAHHIDPN is the 9-character version of HHIDPN, with leading zeros. For example, if the HHID is 012345 and PN is 010 then HHIDPN is 12345010 and RAHHIDPN is 012345010.

HHID and PN, HHIDPN, and RAHHIDPN are all equivalent and unique identifiers, and the RAND HRS Longitudinal File sort order is the same for all three. To merge the RAND HRS Longitudinal File with other data sources, one may use the single variables HHIDPN or RAHHIDPN, or the two variables HHID and PN, whichever is available and most convenient. Other RAND data products also provide all of these identifiers. The programs used to develop the RAND HRS Longitudinal File use HHIDPN, so that means of the numeric ID may be checked to ensure none are missing.

Around 100 individuals responded to HRS 1992 (W1) but were AHEAD eligible, and their households were given to the AHEAD sample. From 1993 on they are treated as AHEAD cases. On this file these cases are identified by their AHEAD IDs, and are linked to their HRS 1992 data. These are the only AHEAD entry cohort Respondents with any W1 data. These "HRS-AHEAD" overlap cases are identified by RAOVRLAP (=1).

There is one case that does not appear to be an overlap case, that is, has an HRS ID and no OVHHID, or AHEAD ID on the Tracker file, but is married in HRS W1 to an individual who is an overlap case. This individual is also married in AHEAD to a spouse who appears to be the same as the HRS-only spouse. We treat these spouses as the same individual in this file, identified by the AHEAD ID.

In addition a few individuals within the AHEAD sample married someone from a different AHEAD household. These cases have one AHEAD ID for early waves, but are assigned a new one after the within-sample marriage in the core public use data. This file identifies these Respondents by their most recent AHEAD ID and links their data across all waves. RAOVRAYR gives the last year in which the original HHIDPN is assigned, i.e., the last interview before the within-sample marriage. For example, if someone married another AHEAD sample member in different household between 1995 and 1998, RAOVRAYR=1995. These "AHEAD-AHEAD" overlap cases are identified by RAOVRLAP as well (=2).



Also in 2004, two households were identified and selected to be in the HRS survey. Both these households were 2-person households containing a married couple. However, there is a lag between when a household is identified and when they actually start to answer survey questions. So, it was 2010 before they actually responded to any HRS survey questions. By 2010, these households had split and so, in the 2010 Core data we had the following IDs HHIDPN=526934010 split from HHIDPN=525520010 and HHIDPN=529766010 split from HHIDPN=520845010.

By 2012, these couples had reunited and so in the 2012 Tracker file, their IDs change from HHIDPN=526934010 to HHIDPN=525520020  
HHIDPN=529766010 to HHIDPN=520845020

In the RAND HRS data products, these cases are referenced by their 2012 ID's. The ID's they had in the 2010 Core data can be found in RAOHRSID. Also, they can be identified by RAOVRLAP=3.

Based on data alerts from HRS, we have made several changes to cases in 2000 and 2002. There is one case deleted in each of these years, and in 2000, HHIDPN 75573041 is changed to 75573010.

Please refer to Appendix A for a list of overlap cases and other ID change information. Please see the section on "Overlap cases" for a description of the RAOVRLAP flag and alternate IDs.

## HRS Variables Used

### Tracker:

HHID	HOUSEHOLD IDENTIFIER
OVHHID	OVERLAP CASE: OLD HHID
OVPN	OVERLAP CASE: OLD PN
PN	PERSON NUMBER

<b>Household Identifier</b>
-----------------------------

Wave	Variable Name	Variable Label	Type
1	H1HHID	H1HHID:W1 HHold ID + SubHHold /Num	Cont
2	H2HHID	H2HHID:W2 HHold ID + SubHHold /Num	Cont
3	H3HHID	H3HHID:W3 HHold ID + SubHHold /Num	Cont
4	H4HHID	H4HHID:W4 HHold ID + SubHHold /Num	Cont
5	H5HHID	H5HHID:W5 HHold ID + SubHHold /Num	Cont
6	H6HHID	H6HHID:W6 HHold ID + SubHHold /Num	Cont
7	H7HHID	H7HHID:W7 HHold ID + SubHHold /Num	Cont
8	H8HHID	H8HHID:W8 HHold ID + SubHHold /Num	Cont
9	H9HHID	H9HHID:W9 HHold ID + SubHHold /Num	Cont
10	H10HHID	H10HHID:W10 HHold ID + SubHHold /Num	Cont
11	H11HHID	H11HHID:W11 HHold ID + SubHHold /Num	Cont
12	H12HHID	H12HHID:W12 HHold ID + SubHHold /Num	Cont
1	H1HHIDC	H1HHIDC:W1 HHold ID + SubHHold /7-Char	Char
2	H2HHIDC	H2HHIDC:W2 HHold ID + SubHHold /7-Char	Char
3	H3HHIDC	H3HHIDC:W3 HHold ID + SubHHold /7-Char	Char
4	H4HHIDC	H4HHIDC:W4 HHold ID + SubHHold /7-Char	Char
5	H5HHIDC	H5HHIDC:W5 HHold ID + SubHHold /7-Char	Char
6	H6HHIDC	H6HHIDC:W6 HHold ID + SubHHold /7-Char	Char
7	H7HHIDC	H7HHIDC:W7 HHold ID + SubHHold /7-Char	Char
8	H8HHIDC	H8HHIDC:W8 HHold ID + SubHHold /7-Char	Char
9	H9HHIDC	H9HHIDC:W9 HHold ID + SubHHold /7-Char	Char
10	H10HHIDC	H10HHIDC:W10 HHold ID + SubHHold /7-Char	Char
11	H11HHIDC	H11HHIDC:W11 HHold ID + SubHHold /7-Char	Char
12	H12HHIDC	H12HHIDC:W12 HHold ID + SubHHold /7-Char	Char

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
H1HHID	12652	492181.43	273913.39	10.0	2088670.0
H2HHID	19642	1133404.38	791404.84	10.0	2088980.0
H3HHID	17991	1090001.28	784075.68	20.0	2088980.0
H4HHID	21384	1209708.45	767109.01	20.0	2134790.0
H5HHID	19579	1178813.45	763685.69	20.0	2134790.0
H6HHID	18165	1139184.18	755892.49	30.0	2134790.0
H7HHID	20129	1748203.12	1606542.38	30.0	5027610.0
H8HHID	18469	1716759.78	1610087.26	30.0	5027610.0
H9HHID	17217	1717848.99	1641192.71	30.0	5027610.0
H10HHID	22034	3190737.77	2882407.61	30.0	9597380.0
H11HHID	20554	3227024.24	2899750.15	30.0	9597380.0
H12HHID	18747	3321934.62	2929701.79	30.0	9597380.0

## How Constructed

The HwHHID identifiers combine HHID with a sub-household ID for each wave. They uniquely identify a household in a given wave. Households that split are given different subHH IDs by HRS. HwHHID is numeric (HHID\*10+subHH). HwHHIDC is the 7-character version, with leading zeros. For example, if HHID is 012345 and the Wave "w" subHH is 2 then HwHHID is 123452 and HwHHIDC is "0123452."

Around 100 individuals responded to HRS 1992 (W1) but were AHEAD eligible, and their households were given to

the AHEAD sample. From 1993 on they are treated as AHEAD cases. On this file these cases are identified by their AHEAD IDs, and are linked to their HRS 1992 data. These are the only AHEAD entry cohort Respondents with any W1 data. These "HRS-AHEAD" overlap cases are identified by RAOVRLAP (=1).

In addition a few individuals within the AHEAD sample married someone from a different AHEAD household. These cases have one AHEAD ID for early waves, but are assigned a new one after the within-sample marriage. This file identifies these Respondents by their most recent AHEAD HHIDPN. RAOVRAYR gives the last year in which the original HHIDPN is assigned, i.e., the last interview before the within-sample marriage. For example, if someone married another AHEAD sample member in different household between 1995 and 1998, RAOVRAYR=1995. These are "AHEAD-AHEAD" overlap cases and are identified by RAOVRLAP as well (=2).

Also in 2004, two households were identified and selected to be in the HRS survey. Both these households were 2-person households containing a married couple. However, there is a lag between when a household is identified and when they actually start to answer survey questions. So, it was 2010 before they actually responded to any HRS survey questions. By 2010, these households had split and so, in the 2010 Core data we had the following IDs HHIDPN=526934010 split from HHIDPN=525520010 and HHIDPN=529766010 split from HHIDPN=520845010.

By 2012, these couples had reunited and so in the 2012 Tracker file, their IDs change from  
HHIDPN=526934010 to HHIDPN=525520020  
HHIDPN=529766010 to HHIDPN=520845020

In the RAND HRS data products, these cases are referenced by their 2012 IDs. The IDs they had in the 2010 Core data can be found in RAOHRSID. Also, they can be identified by RAOVRLAP=3.

For the HRS-AHEAD overlap cases the HwHHID and HwHHIDC variables reflect the AHEAD household identifier in all waves. For the AHEAD-AHEAD overlap cases, HwHHID and HwHHIDC reflect the actual AHEAD sub-household for the Respondent in each wave. So, for example, if the Respondent was in household 200000.0 in 1995 and married into household 290000.0 in 1998, H3HHID would be 200000.0 and H4HHID would be 290000.0.

Please refer to Appendix A for a list of overlap cases.

Also in Wave 3H, there are a few households that appear to be reunited based on answers to questions in the cover sheet section. They are reunited in Wave 4 in the public use HRS core data, but have different sub-household IDs in Wave 3. We reunite them in Wave 3 in the RAND HRS Longitudinal File. These households are: 17520 (PNs 010 and 040), 22999 (PNs 010 and 020), 40609 (PNs 010 and 020), 40441 (PNs 010 and 020), 50945 (PNs 010 and 040). These cases will have different sub-household IDs in H3HHID from the ESUBHH found in the Tracker and core 1996 files. The spouse PNs will also differ.

In 1994, one household, 15730 is split in the core data, but is together in the Tracker file. In this household, 15730.020 was interviewed, but then died before the widow (15730.030) was interviewed. We treat these two cases as being in separate households, as they are in the core data.

In some other households, the Tracker file shows a non-responding spouse, but the core data indicate that the couple is split. We treat these couples as split. In most households, this involves a change for the non-responding spouse so that the sub-household ID on this file differs from that on the Tracker file, but still matches that on the core data. For two households, 10646 and 65564, the FSUBHH used to derive H4HHID also differs from that on the core 1998 data for the responding spouse. That is, they are shown as not split in both Tracker and 1998 core data, but are split on the RAND HRS Longitudinal File based on core cover sheet information. Note that the spouse PN for the responding spouse in these two households was set to missing in Wave 4.

**HRS Variables Used**

AHEAD 1993:	
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
HRS 1994:	
W2SUBHH	HRS Wave 2 Sub-Household
AHEAD 1995:	
DSUBHH	1995 SUB-HOUSEHOLD IDENTIFIER
HRS 1996:	
ESUBHH	HRS WAVE 3 SUB-HOUSEHOLD ID (Char)
HRS 1998:	
FSUBHH	HRS98 SUB-HOUSEHOLD ID (Char)
HRS 2000:	
GSUBHH	HRS00 SUB-HOUSEHOLD ID (Char)
HRS 2002:	
HSUBHH	HRS 2002 SUB-HOUSEHOLD ID (Char)
HRS 2004:	
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
HRS 2006:	
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
HRS 2008:	
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
HRS 2010:	
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
HRS 2012:	
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
HRS 2014:	
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
Tracker:	
ASUBHH	1992 SUB-HOUSEHOLD IDENTIFIER
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
DSUBHH	1995 SUB-HOUSEHOLD IDENTIFIER
ESUBHH	1996 SUB-HOUSEHOLD IDENTIFIER
FSUBHH	1998 SUB-HOUSEHOLD IDENTIFIER
GSUBHH	2000 SUB-HOUSEHOLD IDENTIFIER
HHID	HOUSEHOLD IDENTIFIER
HSUBHH	2002 SUB-HOUSEHOLD IDENTIFIER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OVHHID	OVERLAP CASE: OLD HHID
OVPN	OVERLAP CASE: OLD PN
PN	PERSON NUMBER

<b>Spouse Identifier</b>
--------------------------

Wave	Variable Name	Variable Label	Type
1	S1HHIDPN	S1HHIDPN:W1 Spouse HHIDPN	Cont
2	S2HHIDPN	S2HHIDPN:W2 Spouse HHIDPN	Cont
3	S3HHIDPN	S3HHIDPN:W3 Spouse HHIDPN	Cont
4	S4HHIDPN	S4HHIDPN:W4 Spouse HHIDPN	Cont
5	S5HHIDPN	S5HHIDPN:W5 Spouse HHIDPN	Cont
6	S6HHIDPN	S6HHIDPN:W6 Spouse HHIDPN	Cont
7	S7HHIDPN	S7HHIDPN:W7 Spouse HHIDPN	Cont
8	S8HHIDPN	S8HHIDPN:W8 Spouse HHIDPN	Cont
9	S9HHIDPN	S9HHIDPN:W9 Spouse HHIDPN	Cont
10	S10HHIDPN	S10HHIDPN:W10 Spouse HHIDPN	Cont
11	S11HHIDPN	S11HHIDPN:W11 Spouse HHIDPN	Cont
12	S12HHIDPN	S12HHIDPN:W12 Spouse HHIDPN	Cont
1	RASPCT	RASPCT: # of spouses with ID	Cont
1	RASPID1	RASPID1: HHIDPN of 1st spouse	Cont
1	RASPID2	RASPID2: HHIDPN of 2nd spouse	Cont
1	RASPID3	RASPID3: HHIDPN of 3rd spouse	Cont
1	RASPID4	RASPID4: HHIDPN of 4th spouse	Cont

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
S1HHIDPN	12652	40146194.53	31817608.99	0.0	208867020.0
S2HHIDPN	19579	69286448.52	78269490.35	0.0	208898020.0
S3HHIDPN	17924	64712174.26	75514086.18	0.0	208898020.0
S4HHIDPN	21318	73875455.18	79688483.08	0.0	213479020.0
S5HHIDPN	19545	70097172.55	77812345.28	0.0	213479020.0
S6HHIDPN	18144	65995307.78	75312554.74	0.0	213479020.0
S7HHIDPN	20118	114263253.9	160029968.4	0.0	502759020.0
S8HHIDPN	18468	111704937.0	159934303.8	0.0	502759020.0
S9HHIDPN	17216	110966257.4	162224673.2	0.0	502759020.0
S10HHIDPN	22030	211046750.7	279915027.4	0.0	923525020.0
S11HHIDPN	20554	212084841.2	281896335.7	0.0	958361011.0
S12HHIDPN	18714	215988671.1	285344925.2	0.0	923525020.0
RASPCT	37495	0.78	0.48	0.0	4.0
RASPID1	28073	245580922.4	247098959.4	3010.0	958361011.0
RASPID2	1015	158317753.0	190868086.4	10299012.0	920331011.0
RASPID3	63	103142368.3	119898017.4	11936012.0	501614012.0
RASPID4	5	40259629.00	21815421.66	16973033.0	64609043.0

## How Constructed

HRS Respondents have up to 4 different individuals as spouses or partners from 1992 to 2014. Cohabiting partners are treated as spouses for all but the marriage variables in this file. RASPTCT tells how many spouses the Respondent has over all waves. Their HHIDPNs are given in RASPID1-RASPID4. SwHHIDPN gives the HHIDPN of the spouse in Wave "w." The SwHHIDPN variables are derived from HHID and the spouse person numbers found in the core data and on the Tracker file. These are the numeric versions of the IDs.

There are a number of cases where the spouse PN on the Tracker file does not match that used in the core data or in this file. In some cases the spouse identified on the Tracker is deceased or otherwise non-responding when the Respondent indicates not being married or partnered. In other cases, the spouse PN is missing on the Tracker file, but is available in the core data. On this file, the SwHHIDPNs of deceased or other spouses no longer part of the couple are set to zero, and core spouse PNs are used when missing from Tracker.

If there is no spouse in a given wave, SwHHIDPN is set to zero. If SwHHIDPN is unknown, and the marital status in a particular wave is either missing (.M) or married, SwHHIDPN is set to a special missing code of .M. If the Respondent is non-responding in a given wave, SwHHIDPN is set to plain missing (.).

There are spouse versions of most Respondent variables. Each wave carries that wave's spouse's demographic and other information. For example, S1BDATE and S4BDATE are the birth dates for the Wave 1 and Wave 4 spouses, respectively. If the spouse in Wave 4 is the same as the spouse in Wave 1, these dates will be identical. But if the spouse in Wave 4 is different from the spouse in Wave 1, these will probably be different dates. If these spouse variables are missing because the Respondent is not married or partnered, they are set to SAS special missing .U. If they are missing because the Respondent's spouse or partner did not respond, they are set to a .V missing.

## HRS Variables Used

### Tracker:

APPN	1992	SPOUSE-PARTNER	PERSON	NUMBER
BPPN	1993	SPOUSE-PARTNER	PERSON	NUMBER
CPPN	1994	SPOUSE-PARTNER	PERSON	NUMBER
DPPN	1995	SPOUSE-PARTNER	PERSON	NUMBER
EPPN	1996	SPOUSE-PARTNER	PERSON	NUMBER
FPPN	1998	SPOUSE-PARTNER	PERSON	NUMBER
GPPN	2000	SPOUSE-PARTNER	PERSON	NUMBER
HHID		HOUSEHOLD	IDENTIFIER	
HPPN	2002	SPOUSE-PARTNER	PERSON	NUMBER
JPPN	2004	SPOUSE-PARTNER	PERSON	NUMBER
KPPN	2006	SPOUSE-PARTNER	PERSON	NUMBER
LPPN	2008	SPOUSE-PARTNER	PERSON	NUMBER
MPPN	2010	SPOUSE-PARTNER	PERSON	NUMBER
NPPN	2012	SPOUSE-PARTNER	PERSON	NUMBER
OPPn	2014	SPOUSE-PARTNER	PERSON	NUMBER

<b>Overlap Identifier for cases that moved from HRS to AHEAD</b>
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Wave	Variable Name	Variable Label	Type
1	RAOVRLAP	RAOVRLAP: Overlap/AltID case	Categ
1	RAOVRAYR	RAOVRAYR:Ahd-Ahd ovrlap-alt id end yr	Cont
1	HAOAHDDH	HAOAHDDH: Overlap/AltID case-Ahead core HHID/Num	Cont
1	RAOAHDDID	RAOAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
1	S1OAHDDID	S1OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
2	S2OAHDDID	S2OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
3	S3OAHDDID	S3OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
4	S4OAHDDID	S4OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
5	S5OAHDDID	S5OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
6	S6OAHDDID	S6OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
7	S7OAHDDID	S7OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
8	S8OAHDDID	S8OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
9	S9OAHDDID	S9OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
10	S10OAHDDID	S10OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
11	S11OAHDDID	S11OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
12	S12OAHDDID	S12OAHDDID: Overlap/AltID case-Ahead core HHIDPN	Cont
1	H1OHRSHH	H1OHRSHH:W1 HRS core HHID + SubHHold /Num	Cont
1	RAOHRSID	RAOHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
1	S1OHRSID	S1OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
2	S2OHRSID	S2OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
3	S3OHRSID	S3OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
4	S4OHRSID	S4OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
5	S5OHRSID	S5OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
6	S6OHRSID	S6OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
7	S7OHRSID	S7OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
8	S8OHRSID	S8OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
9	S9OHRSID	S9OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
10	S10OHRSID	S10OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
11	S11OHRSID	S11OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont
12	S12OHRSID	S12OHRSID: Overlap/AltID case-HRS core HHIDPN/Num	Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAOVRLAP	37495	0.00	0.06	0.0	3.0
RAOVRAYR	37493	0.11	14.58	0.0	1998.0
HAOAHDDH	37493	605.94	11120.87	0.0	208867.0
RAOAHDDID	37495	605908.27	11120576.94	0.0	208867020.0
S1OAHDDID	10279	2150666.95	20873617.91	0.0	208867020.0
S2OAHDDID	13608	1578884.82	17906949.01	0.0	208867020.0
S3OAHDDID	12269	1434741.97	17078562.49	0.0	208867020.0
S4OAHDDID	14453	1103979.05	14988650.82	0.0	208867020.0
S5OAHDDID	13007	1084597.76	14853225.53	0.0	208289020.0
S6OAHDDID	11822	865667.89	13284425.71	0.0	208867020.0
S7OAHDDID	13307	600720.19	11081327.60	0.0	208867020.0
S8OAHDDID	12001	545914.88	10559062.63	0.0	207784020.0

S90AHDID	10953	431146.38	9399931.70	0.0	208867020.0
S100AHDID	14147	201948.13	6417230.81	0.0	208867020.0
S110AHDID	12985	172441.14	5922978.57	0.0	208867020.0
S120AHDID	11534	140659.37	5339826.89	0.0	208867020.0
H10HRSHH	37493	1288.32	26979.48	0.0	870320.0
RAOHRSID	37495	157007.70	4707565.86	0.0	529766010.0
S10HRSID	10279	466819.80	5127947.63	0.0	87032030.0
S20HRSID	13608	346950.00	4442768.74	0.0	87032030.0
S30HRSID	12269	324834.80	4309945.56	0.0	87032030.0
S40HRSID	14453	238759.63	3645042.87	0.0	87032030.0
S50HRSID	13007	235302.27	3619739.25	0.0	87032030.0
S60HRSID	11822	172952.56	3128305.12	0.0	87032030.0
S70HRSID	13307	115974.37	2511708.09	0.0	87032030.0
S80HRSID	12001	102664.43	2278951.45	0.0	87032030.0
S90HRSID	10953	88615.77	2139235.68	0.0	87032030.0
S100HRSID	14147	44716.43	1529853.05	0.0	87032030.0
S110HRSID	12985	116207.88	6679809.97	0.0	529766010.0
S120HRSID	11534	72307.45	5029579.40	0.0	526934010.0

## Categorical Variable Codes

Value	RAOVLAP
0.Not overlap case	37382
1.Hrs-Ahd overlap	109
2.Ahd-Ahd overlap	2
3.Hrs-Hrs overlap	2

## How Constructed

Around 100 individuals responded to HRS 1992 (W1) but were AHEAD eligible, and their households were given to the AHEAD sample. From 1993 on they are treated as AHEAD cases. On this file these cases are identified by their AHEAD IDs, and are linked to their HRS 1992 data. These are the only AHEAD entry cohort Respondents with any W1 data. These are "HRS-AHEAD" overlap cases and are identified by RAOVLAP (=1).

There is one case that does not appear to be an overlap case; that is, has an HRS ID and no OVHHID on the Tracker file, but who is married in HRS W1 to a spouse who is an overlap case. The spouse is married in AHEAD to an individual who appears to be the same as the HRS-only spouse. We treat these spouses as the same people in this file.

In addition, a few individuals within the AHEAD sample married someone from a different AHEAD household. These cases have one AHEAD ID for early waves, but are assigned a new one after the within-sample marriage. This file identifies these Respondents by their most recent AHEAD ID. RAOVRAYR gives the last year in which the original HHIDPN is assigned, i.e., the last interview before the within-sample marriage. For example, if someone married another AHEAD sample member in a different household between 1995 and 1998, RAOVRAYR=1995. These are "AHEAD-AHEAD" overlap cases, and are identified by RAOVLAP as well (=2).

Also in 2004, two households were identified and selected to be in the HRS survey. Both these households were 2-person households containing a married couple. However, there is a lag between when a household is identified and when



they actually start to answer survey questions. So, it was 2010 before they actually responded to any HRS survey questions. By 2010, these households had split and so, in the 2010 Core data we had the following IDs HHIDPN=526934010 split from HHIDPN=525520010 and HHIDPN=529766010 split from HHIDPN=520845010.

By 2012, these couples had reunited and so in the 2012 Tracker file, their IDs change from HHIDPN=526934010 to HHIDPN=525520020  
HHIDPN=529766010 to HHIDPN=520845020

In the RAND HRS data products, these cases are referenced by their 2012 IDs. The IDs they had in the 2010 Core data can be found in RAOHRSID. Also, they can be identified by RAOVRLAP=3.

RAOAHDID is the AHEAD HHIDPN for the HRS-AHEAD overlap Respondents, and the original AHEAD ID for AHEAD-AHEAD overlap Respondents. HAOAHDHH gives just the HHID portion of RAOAHDID. On this file, HHIDPN (numeric), RAHHIDPN (character), and RAOAHDID (numeric) are all equal for HRS-AHEAD overlap cases.

For AHEAD-AHEAD overlap cases, HHIDPN and RAHHIDPN are the most recent AHEAD ID, different from the original one found in RAOAHDID. RAOAHDID matches the OVHHID and OVPN found for the AHEAD-AHEAD overlap cases on the Tracker file, and the HHID and PN found in the core data for interviews up to and including RAOVRAYR. HHIDPN and RAHHIDPN match the HHID and PN found in the core data for interviews after RAOVRAYR.

RAOHRSID is the HRS HHIDPN for the HRS-AHEAD Respondents. It is also the 2010 ID for the MBB-MBB overlap Respondents. RAOHRSID is the HHIDPN that identifies the Respondent in the 1992 or 2010 Public Use Data, and by OVHHID and OVPN on the Tracker file.

For the HRS-AHEAD overlap cases the HwHHID and HwHHIDC variables reflect the AHEAD household identifier in all waves. For the AHEAD-AHEAD overlap cases, HwHHID and HwHHIDC reflect the actual AHEAD sub-household for the Respondent in each wave. So, for example, if the Respondent was in household 200000.0 in 1995 and married into household 290000.0 in 1998, H3HHID would be 200000.0 and H4HHID would be 290000.0.

RAOHRSHH is the HRS HHID for Respondents in the overlap household, and H1HRSHH is the HRS Wave 1 HHID plus sub-household for overlap Respondents. For AHEAD-AHEAD overlap cases these HRS IDs are set to zero.

For non-overlap cases, all overlap IDs and RAOVRLAP are set to zero.

The spouse overlap flag and identifiers are taken from the Wave "w" spouse's variables, i.e., from the Wave "w" spouse's RAOVRLAP, RAOAHDID, RAOHRSID, and RAOVRAYR.

## Cross Wave Differences in Original HRS Data

Tracker identifies all the AHEAD-AHEAD overlap cases and HRS-AHEAD overlap cases.

## HRS Variables Used

Tracker:

HHID	HOUSEHOLD IDENTIFIER
OVHHID	OVERLAP CASE: OLD HHID
OVPN	OVERLAP CASE: OLD PN
PN	PERSON NUMBER

<b>Wave Status: Response Indicator</b>
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Wave	Variable Name	Variable Label	Type
1	INW1	INW1: =1 if Respondent W1	Categ
2	INW2	INW2: =1 if Respondent W2	Categ
3	INW3	INW3: =1 if Respondent W3	Categ
4	INW4	INW4: =1 if Respondent W4	Categ
5	INW5	INW5: =1 if Respondent W5	Categ
6	INW6	INW6: =1 if Respondent W6	Categ
7	INW7	INW7: =1 if Respondent W7	Categ
8	INW8	INW8: =1 if Respondent W8	Categ
9	INW9	INW9: =1 if Respondent W9	Categ
10	INW10	INW10: =1 if Respondent W10	Categ
11	INW11	INW11: =1 if Respondent W11	Categ
12	INW12	INW12: =1 if Respondent W12	Categ

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
INW1	37495	0.34	0.47	0.0	1.0
INW2	37495	0.52	0.50	0.0	1.0
INW3	37495	0.48	0.50	0.0	1.0
INW4	37495	0.57	0.50	0.0	1.0
INW5	37495	0.52	0.50	0.0	1.0
INW6	37495	0.48	0.50	0.0	1.0
INW7	37495	0.54	0.50	0.0	1.0
INW8	37495	0.49	0.50	0.0	1.0
INW9	37495	0.46	0.50	0.0	1.0
INW10	37495	0.59	0.49	0.0	1.0
INW11	37495	0.55	0.50	0.0	1.0
INW12	37495	0.50	0.50	0.0	1.0

Categorical Variable Codes

Value	INW1	INW2	INW3	INW4	INW5	INW6	INW7
0.NonResp	24843	17853	19504	16111	17916	19330	17366
1.Resp,alive	12652	19642	17991	21384	19579	18165	20129
Value	INW8	INW9	INW10	INW11	INW12		
0.NonResp	19026	20278	15461	16941	18748		
1.Resp,alive	18469	17217	22034	20554	18747		

How Constructed

These variables indicate whether an individual responded to a particular wave.

In previous versions of this file, INW2 further identifies the deceased proxies included in the data for wave 2H (INW2=2). We exclude the deceased proxies (INW2=2) in this version of the file (Version F forward). Interviews for the deceased are not included in any of the other waves.

The Tracker file identifies one additional Respondent as deceased at Wave 2H, but flags in the HRS W2 data indicate that this case actually completed the interview and then died. In previous versions of RANDHRS, this case has INW2=1 with R2IWSTAT=2 (Died after interview), and in skip patterns within the interview, the case is treated as living. From Version F forward, we treat this case as deceased in W2; that is, we use the Tracker file mortality status.

<b>Wave Status: Interview Status</b>
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Wave	Variable Name	Variable Label	Type
1	R1IWSTAT	R1IWSTAT:W1 R Interview Status	Categ
2	R2IWSTAT	R2IWSTAT:W2 R Interview Status	Categ
3	R3IWSTAT	R3IWSTAT:W3 R Interview Status	Categ
4	R4IWSTAT	R4IWSTAT:W4 R Interview Status	Categ
5	R5IWSTAT	R5IWSTAT:W5 R Interview Status	Categ
6	R6IWSTAT	R6IWSTAT:W6 R Interview Status	Categ
7	R7IWSTAT	R7IWSTAT:W7 R Interview Status	Categ
8	R8IWSTAT	R8IWSTAT:W8 R Interview Status	Categ
9	R9IWSTAT	R9IWSTAT:W9 R Interview Status	Categ
10	R10IWSTAT	R10IWSTAT:W10 R Interview Status	Categ
11	R11IWSTAT	R11IWSTAT:W11 R Interview Status	Categ
12	R12IWSTAT	R12IWSTAT:W12 R Interview Status	Categ
1	S1IWSTAT	S1IWSTAT:W1 S Interview Status	Categ
2	S2IWSTAT	S2IWSTAT:W2 S Interview Status	Categ
3	S3IWSTAT	S3IWSTAT:W3 S Interview Status	Categ
4	S4IWSTAT	S4IWSTAT:W4 S Interview Status	Categ
5	S5IWSTAT	S5IWSTAT:W5 S Interview Status	Categ
6	S6IWSTAT	S6IWSTAT:W6 S Interview Status	Categ
7	S7IWSTAT	S7IWSTAT:W7 S Interview Status	Categ
8	S8IWSTAT	S8IWSTAT:W8 S Interview Status	Categ
9	S9IWSTAT	S9IWSTAT:W9 S Interview Status	Categ
10	S10IWSTAT	S10IWSTAT:W10 S Interview Status	Categ
11	S11IWSTAT	S11IWSTAT:W11 S Interview Status	Categ
12	S12IWSTAT	S12IWSTAT:W12 S Interview Status	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1IWSTAT	37495	0.36	0.56	0.0	4.0
R2IWSTAT	37495	0.70	0.88	0.0	7.0
R3IWSTAT	37495	0.88	1.24	0.0	7.0
R4IWSTAT	37495	1.24	1.56	0.0	7.0
R5IWSTAT	37495	1.49	1.86	0.0	7.0
R6IWSTAT	37495	1.72	2.09	0.0	7.0
R7IWSTAT	37495	2.03	2.21	0.0	7.0
R8IWSTAT	37495	2.30	2.38	0.0	7.0
R9IWSTAT	37495	2.49	2.47	0.0	7.0
R10IWSTAT	37495	2.90	2.38	0.0	7.0
R11IWSTAT	37495	3.14	2.45	0.0	7.0
R12IWSTAT	37495	3.40	2.47	1.0	7.0
S1IWSTAT	10279	1.11	0.57	1.0	4.0
S2IWSTAT	13608	1.11	0.57	0.0	4.0
S3IWSTAT	12269	1.09	0.50	1.0	4.0
S4IWSTAT	14453	1.10	0.53	1.0	4.0
S5IWSTAT	13007	1.06	0.43	1.0	4.0
S6IWSTAT	11822	1.05	0.37	1.0	4.0
S7IWSTAT	13307	1.08	0.48	1.0	5.0
S8IWSTAT	12001	1.07	0.52	0.0	7.0
S9IWSTAT	10953	1.10	0.58	1.0	7.0
S10IWSTAT	14147	1.14	0.69	0.0	7.0
S11IWSTAT	12985	1.13	0.67	0.0	7.0
S12IWSTAT	11534	1.15	0.74	1.0	7.0

## Categorical Variable Codes

Value	R1IWSTAT	R2IWSTAT	R3IWSTAT	R4IWSTAT	R5IWSTAT	R6IWSTAT	R7IWSTAT
0.Inap.	24598	16304	16156	11034	10888	10728	7183
1.Resp,alive	12652	19642	17991	21384	19579	18165	20129
4.NR,alive	245	1300	2002	2173	2487	2250	2330
5.NR,died this wv		226	1088	1346	1439	1572	1297
6.NR,died prev wv			226	1312	2657	4096	5641
7.NR,dropped from samp		23	32	246	445	684	915

Value	R8IWSTAT	R9IWSTAT	R10IWSTAT	R11IWSTAT	R12IWSTAT
0.Inap.	7025	6900	302	135	
1.Resp,alive	18469	17217	22034	20554	18747
4.NR,alive	2196	2163	2223	2239	2509
5.NR,died this wv	1384	1279	1629	1204	1347
6.NR,died prev wv	6925	8305	9584	11213	12417
7.NR,dropped from samp	1496	1631	1723	2150	2475

Value	S1IWSTAT	S2IWSTAT	S3IWSTAT	S4IWSTAT	S5IWSTAT	S6IWSTAT	S7IWSTAT
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	64	62	34	37	45
0.Inap.		17					
1.Resp,alive	9900	13088	11915	13978	12730	11639	12972
4.NR,alive	379	503	354	475	277	183	322
5.NR,died this wv							13

Value	S8IWSTAT	S9IWSTAT	S10IWSTAT	S11IWSTAT	S12IWSTAT
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
0.Inap.	1		2	2	
1.Resp,alive	11735	10646	13513	12488	11027
4.NR,alive	225	258	566	419	411
5.NR,died this wv	9	12	22	19	25
6.NR,died prev wv				1	
7.NR,dropped from samp	31	37	44	56	71

## How Constructed

This variable gives the response and mortality status of the Respondent at each wave. Respondents are identified by code 1, non-Respondents by codes 0, 4-7 and 9.

Mortality status is taken from the Tracker file. Known alive and presumed alive are both treated as indication that the Respondent is living. Non-response code 4 means that the Respondent is alive so far as we know, but did not respond. A code of 5 means that the Respondent died between the last interview and the current one, and 6 means that the Respondent had died before a previous wave. A code of 9 means that we don't know if the individual is alive or not; Tracker indicates this in the xALIVE variables for each wave. However, Tracker indicates some individuals are alive at a subsequent interview. We carry the living status back in these cases.

The xALIVE variable on the Tracker file is sometimes zero or missing before an individual enters the sample, or when an individual has been dropped from the sample. In these cases, if the Tracker variable xINSAMP indicates that the Respondent has not entered the sample because the cohort has not yet been interviewed, or the Respondent marries into the sample at a later wave (xINSAMP=2 or 3), then RwIWSTAT is set to 0. If the Respondent has been dropped from the sample because s/he was eligible to be an HRS-AHEAD overlap case but never responded to AHEAD (xINSAMP=4); alive but asked to be dropped from the study before the wave (xINSAMP=6); or for other reasons (xINSAMP=8); then RwIWSTAT

is set to 7.

SwIWSTAT gives the response and mortality status of the current wave's spouse at each wave, if available. It is taken from the spouse's RxIWSTAT if the spouse appears on the Tracker file. Note that when a spouse dies, the spouse interview status for the surviving spouse will have a code of .U=Respondent unmarried if the widow does not remarry. A .V missing code indicates that there is no information in the Tracker file on why the spouse did not respond.

Note also that SxIWSTAT is set to plain missing (.) if an individual did not respond at a particular interview, including if s/he died. Surviving spouses are interviewed, but we do not at this time indicate whether the surviving spouse is a Respondent in the deceased's spouse's interview status.

In previous versions of RANDHRS, Wave 2H included proxy interviews for deceased Respondents and were given R2IWSTAT=3.Proxy Respondent; the Respondent is deceased at the time of the interview. From Version F forward, we exclude these deceased Respondents. There are no deceased Respondents in any other wave.

The Tracker file identified one additional Respondent as deceased at Wave 2H, but flags in the HRS W2 data indicate that this case actually completed the interview and then died. In previous versions of RANDHRS, this case had INW2=1 with R2IWSTAT=2 (Died after interview), and in skip patterns within the interview, the case was treated as living. From Version F forward, we treat this case as deceased in W2; that is, we use the Tracker file mortality status.

### Cross Wave Differences in Original HRS Data

In Wave 2H, exit interviews (proxy interviews on the deceased) were included in the previous version of this file along with the core interviews. This is the only wave where deceased Respondents are included. Beginning with Version F, we excluded the deceased proxies.

With Tracker 2008, the xALIVE flag is sometimes zero or missing when an individual has been dropped from the sample. The xINSAMP code indicates why someone is dropped from the sample. In these cases, xINSAMP indicates why the Respondent has been dropped from the sample. Reasons are s/he was eligible to be an HRS-AHEAD overlap case but never responded to AHEAD (xINSAMP=4); alive but asked to be dropped from the study before the wave (xINSAMP=6); or for other reasons (xINSAMP=8).

### HRS Variables Used

#### Tracker:

AALIVE	1992	VITAL	STATUS
BALIVE	1993	VITAL	STATUS
CALIVE	1994	VITAL	STATUS
DALIVE	1995	VITAL	STATUS
EALIVE	1996	VITAL	STATUS
FALIVE	1998	VITAL	STATUS
GALIVE	2000	VITAL	STATUS
HALIVE	2002	VITAL	STATUS
JALIVE	2004	VITAL	STATUS
KALIVE	2006	VITAL	STATUS
LALIVE	2008	VITAL	STATUS
MALIVE	2010	VITAL	STATUS
NALIVE	2012	VITAL	STATUS
OALIVE	2014	VITAL	STATUS

<b>Sample Cohort</b>
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Wave	Variable Name	Variable Label	Type
1	HACOHORT	HACOHORT: Sample cohort	Categ
1	RACOHBYR	RACOHBYR: Cohort based on birth yr	Categ
1	S1COHBYR	S1COHBYR: Cohort based on birth yr	Categ
2	S2COHBYR	S2COHBYR: Cohort based on birth yr	Categ
3	S3COHBYR	S3COHBYR: Cohort based on birth yr	Categ
4	S4COHBYR	S4COHBYR: Cohort based on birth yr	Categ
5	S5COHBYR	S5COHBYR: Cohort based on birth yr	Categ
6	S6COHBYR	S6COHBYR: Cohort based on birth yr	Categ
7	S7COHBYR	S7COHBYR: Cohort based on birth yr	Categ
8	S8COHBYR	S8COHBYR: Cohort based on birth yr	Categ
9	S9COHBYR	S9COHBYR: Cohort based on birth yr	Categ
10	S10COHBYR	S10COHBYR: Cohort based on birth yr	Categ
11	S11COHBYR	S11COHBYR: Cohort based on birth yr	Categ
12	S12COHBYR	S12COHBYR: Cohort based on birth yr	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
HACOHORT	37495	3.24	1.67	0.0	6.0
RACOHBYR	37494	3.12	1.76	0.0	6.0
S1COHBYR	10279	3.05	0.72	0.0	6.0
S2COHBYR	13583	2.45	1.08	0.0	6.0
S3COHBYR	12247	2.52	1.07	0.0	6.0
S4COHBYR	14441	2.77	1.15	0.0	6.0
S5COHBYR	13002	2.84	1.13	0.0	6.0
S6COHBYR	11814	2.92	1.11	0.0	6.0
S7COHBYR	13305	3.33	1.35	0.0	6.0
S8COHBYR	11999	3.40	1.33	0.0	6.0
S9COHBYR	10948	3.46	1.32	0.0	6.0
S10COHBYR	14144	3.83	1.77	0.0	6.0
S11COHBYR	12954	3.89	1.77	0.0	6.0
S12COHBYR	11515	3.95	1.79	0.0	6.0

## Categorical Variable Codes

Value	HACOHORT
0.Hrs/Ahead overlap	109
1.Ahead	8338
2.Coda	2428
3.Hrs	13593
4.WarBabies	2797
5.Early BabyBoomers	4975
6.Mid BabyBoomers	5255

Value	RACOHBYR
.M=Oth missing	1
0.Not in any cohort	1437
1.Ahead	7758
2.Coda	4232
3.Hrs	10497
4.WarBabies	3665
5.Early BabyBoomers	4812
6.Mid BabyBoomers	5093

Value	S1COHBYR	S2COHBYR	S3COHBYR	S4COHBYR	S5COHBYR	S6COHBYR	S7COHBYR
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		89	86	74	39	45	47
0.Not in any cohort	27	29	30	76	82	79	244
1.Ahead	219	3834	3094	2389	1812	1314	976
2.Coda	1020	1602	1436	2705	2397	2101	1869
3.Hrs	7445	6659	6291	5977	5567	5260	4966
4.WarBabies	1177	1108	1058	2443	2344	2261	2175
5.Early BabyBoomers	299	275	253	660	618	600	2390
6.Mid BabyBoomers	92	76	85	191	182	199	685

Value	S8COHBYR	S9COHBYR	S10COHBYR	S11COHBYR	S12COHBYR
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	53	63	91	126	105
0.Not in any cohort	226	229	1191	1117	1091
1.Ahead	692	483	267	158	82
2.Coda	1599	1329	1058	841	595
3.Hrs	4557	4208	3798	3409	2835
4.WarBabies	2068	1948	1997	1886	1714
5.Early BabyBoomers	2235	2135	2632	2518	2391
6.Mid BabyBoomers	622	616	3201	3025	2807

## How Constructed

HACOHORT identifies the cohort in which the household was originally sampled. RACOHBYR identifies the cohort a Respondent fits into based on birth year.

There are six birth year cohorts in the HRS: 1) AHEAD, born before 1924; 2) the Children of Depression (CODA), born 1924-1930; 3) HRS, born 1931-1941; 4) War Babies (WB), born 1942-1947, (5) Early Baby Boomers (EBB), born 1948-1953, and (6) Mid Baby Boomer (MBB), born 1954-1959. The HRS sample was interviewed separately in 1992, 1994, and 1996. The AHEAD sample was interviewed separately in 1993 and 1995. The two studies were merged and the CODA and WB cohorts added in 1998. The EBB cohort was added in 2004. The MBB cohort was added in 2010.

HACOHORT does not necessarily reflect a birth year range, but indicates when and how the household entered the



study. The RACOHBYR variable indicates which cohort a person falls into based on birth year. In this version of the RAND HRS Longitudinal File, all entry cohorts - HRS, AHEAD, CODA, WB, EBB and MBB - are included.

HACOHORT is assigned based on both response patterns and variables in the raw data that identify the cohort. HRS/AHEAD Overlap cases are identified as a separate category of their own. Please see the RAOVRLAP variable description for more information on these cases.

RACOHBYR is assigned based on RABYEAR. Those with birth years before 1924 are set to the AHEAD cohort, 1924-1930 are set to the CODA cohort, 1931-1941 are set to the HRS cohort, 1942-1947 are set to the WB cohort, 1948-1953 are set to the EBB cohort, and 1954-1959 are set to the MBB cohort. If birth year is missing, then RACOHBYR is missing. If birth year is after 1959, then RABCOHBYR is set to zero.

SwCOHBYR is taken from the Wave "w" spouse's value for RACOHBYR, i.e., based on the spouse's birth year.

See also RAHRSAMP, which identifies age-eligible members of the HRS cohort (HACOHORT=3 and RACHOBYR=3) who responded to HRS 1992, and RAAHDSMP, which identifies age-eligible members of the AHEAD cohort (HACOHORT=1 and RACOHBYR=1) who responded to AHEAD 1993.

NOTE: At least one Respondent in a household should have a birth year appropriate for the cohort (though this is not always the case), but spouses may not. From the HRS documentation on the weights, it appears that weights were assigned based on birth year, regardless of how a person entered the sample, beginning in 1998.

## HRS Variables Used

HRS 1998:	
F461	PRELOAD COHORT
HRS 2000:	
G482	CS0Y9.PRELOAD ENTRY COHORT
HRS 2002:	
HZ023	WHICH COHORT
HRS 2004:	
JZ023	WHICH COHORT
HRS 2006:	
KZ023	WHICH COHORT
HRS 2008:	
LZ023	PREV WAVE WHICH COHORT
HRS 2010:	
MZ023	PREV WAVE WHICH COHORT -1
HRS 2012:	
NZ023	PREV WAVE WHICH COHORT
HRS 2014:	
OZ023	PREV WAVE WHICH COHORT
Tracker:	
HHID	HOUSEHOLD IDENTIFIER
OVHHID	OVERLAP CASE: OLD HHID
PN	PERSON NUMBER

### Whether Eligible for the HRS Sample

Wave	Variable Name	Variable Label	Type
1	RAHRSAMP	RAHRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
1	S1HRSAMP	S1HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
2	S2HRSAMP	S2HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
3	S3HRSAMP	S3HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
4	S4HRSAMP	S4HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
5	S5HRSAMP	S5HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
6	S6HRSAMP	S6HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
7	S7HRSAMP	S7HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
8	S8HRSAMP	S8HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
9	S9HRSAMP	S9HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
10	S10HRSAMP	S10HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
11	S11HRSAMP	S11HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
12	S12HRSAMP	S12HRSAMP: HRS Sample-Age Elig/Hrs92 Resp	Categ
1	RAAHSMP	RAAHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
1	S1AHSMP	S1AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
2	S2AHSMP	S2AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
3	S3AHSMP	S3AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
4	S4AHSMP	S4AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
5	S5AHSMP	S5AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
6	S6AHSMP	S6AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
7	S7AHSMP	S7AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
8	S8AHSMP	S8AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
9	S9AHSMP	S9AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
10	S10AHSMP	S10AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
11	S11AHSMP	S11AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ
12	S12AHSMP	S12AHSMP: AHEAD Sample-Age Elig/Ahd93 Resp	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAHRSAMP	37495	0.26	0.44	0.0	1.0
S1HRSAMP	10279	0.69	0.46	0.0	1.0
S2HRSAMP	13608	0.47	0.50	0.0	1.0
S3HRSAMP	12269	0.49	0.50	0.0	1.0
S4HRSAMP	14453	0.39	0.49	0.0	1.0
S5HRSAMP	13007	0.40	0.49	0.0	1.0
S6HRSAMP	11822	0.42	0.49	0.0	1.0
S7HRSAMP	13307	0.35	0.48	0.0	1.0
S8HRSAMP	12001	0.35	0.48	0.0	1.0
S9HRSAMP	10953	0.35	0.48	0.0	1.0
S10HRSAMP	14147	0.24	0.43	0.0	1.0
S11HRSAMP	12985	0.24	0.43	0.0	1.0
S12HRSAMP	11534	0.22	0.42	0.0	1.0
RAAHSMP	37495	0.20	0.40	0.0	1.0
S1AHSMP	10279	0.01	0.07	0.0	1.0
S2AHSMP	13608	0.26	0.44	0.0	1.0
S3AHSMP	12269	0.24	0.43	0.0	1.0
S4AHSMP	14453	0.15	0.36	0.0	1.0
S5AHSMP	13007	0.13	0.33	0.0	1.0
S6AHSMP	11822	0.10	0.30	0.0	1.0

S7AHD SMP	13307	0.06	0.25	0.0	1.0
S8AHD SMP	12001	0.05	0.22	0.0	1.0
S9AHD SMP	10953	0.04	0.19	0.0	1.0
S10AHD SMP	14147	0.02	0.12	0.0	1.0
S11AHD SMP	12985	0.01	0.10	0.0	1.0
S12AHD SMP	11534	0.01	0.08	0.0	1.0

## Categorical Variable Codes

Value	RAHRSAMP
0.Not in Sample	27733
1.In Samp,Hrs92 Resp b.1931	9762

Value	S1HRSAMP	S2HRSAMP	S3HRSAMP	S4HRSAMP	S5HRSAMP	S6HRSAMP	S7HRSAMP
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	64	62	34	37	45
0.Not in Sample	3167	7229	6257	8822	7761	6903	8681
1.In Samp,Hrs92 Resp b.1931	7112	6379	6012	5631	5246	4919	4626

Value	S8HRSAMP	S9HRSAMP	S10HRSAMP	S11HRSAMP	S12HRSAMP
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
0.Not in Sample	7782	7075	10711	9904	8966
1.In Samp,Hrs92 Resp b.1931	4219	3878	3436	3081	2568

Value	RAAHD SMP
0.Not in Sample	30053
1.In Sample,Ahd93 Resp b.be	7442

Value	S1AHD SMP	S2AHD SMP	S3AHD SMP	S4AHD SMP	S5AHD SMP	S6AHD SMP	S7AHD SMP
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	64	62	34	37	45
0.Not in Sample	10226	10026	9357	12239	11353	10627	12443
1.In Sample,Ahd93 Resp b.be	53	3582	2912	2214	1654	1195	864

Value	S8AHD SMP	S9AHD SMP	S10AHD SMP	S11AHD SMP	S12AHD SMP
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
0.Not in Sample	11402	10544	13928	12856	11464
1.In Sample,Ahd93 Resp b.be	599	409	219	129	70

## How Constructed

These files contain observations for any individual who responded to any of the HRS or AHEAD waves, regardless of birth year.

RAHRSAMP identifies HRS-eligible individuals defined as those who are age-eligible and responded to Wave 1. HRS age-eligible individuals are those born from 1931 to 1941, according to RABDATE. A "1" indicates that the individual

is HRS-eligible, and a "0" indicates that s/he is not. The spouses of individuals in this sample may or may not be in the sample as well.

RAAHSMP identifies AHEAD-eligible individuals defined as those who are age-eligible and responded to Wave 2A. AHEAD age-eligible individuals are those born prior to 1924, according to RABDATE. A "1" indicates that the individual is AHEAD-eligible, and a "0" indicates that s/he is not. The spouses of individuals in this sample may or may not be in the sample as well.

The SwHRSAMP and SwAHSAMP variables indicate whether the Wave "w" spouse or partner is also in these files as a Respondent, i.e., whether the spouse is HRS or AHEAD age-eligible and responded to Wave 1 or Wave 2A, respectively. A "1" indicates that the spouse is in the sample, and a "0" indicates that s/he is not.

See also HACHORT, which identifies how the household entered the study, regardless of Respondent age, and RACHBYR, which identifies which cohort a Respondent fits into based on birth year.

[NOTE: RAHSAMP is a renamed version of the original (Version A) RASAMPLE variable, to accommodate the addition of the CODA and WB cohorts.]

Sampling Weight			
Wave	Variable Name	Variable Label	Type
1	RAWTSAMP	RAWTSAMP: Sampling Weight	Cont
1	RAESTRAT	RAESTRAT: Std Error Stratum	Cont
1	RAEHSAMP	RAEHSAMP: Stratum Half-Sample Code	Cont

Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAWTSAMP	12652	0.76	0.26	0.3	1.0
RAESTRAT	37495	29.97	15.38	1.0	56.0
RAEHSAMP	37495	1.49	0.50	1.0	2.0

How Constructed

The sampling weight (RAWTSAMP) is taken directly from HRS 1992 variable V11, and is available only for HRS cohort Respondents in 1992. RAESTRAT and RAEHSAMP are taken directly from the Tracker variables STRATUM and SECU, respectively. These variables identify the stratum and half-sample respectively that can be used in calculating sampling error. They are described in the Tracker file documentation, and in [HRS Sample Evolution: 1992-1998](#) under Section "2g. Sample Error Computation."

HRS Variables Used

HRS 1992:	
V11	WGT:SAMPLING WEIGHT
Tracker:	
SECU	SAMPLING ERROR COMPUTATION UNIT
STRATUM	STRATUM ID

<b>Household Analysis Weight</b>
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Wave	Variable Name	Variable Label	Type
1	R1WTHH	R1WTHH:W1 Household Analysis Weight	Cont
2	R2WTHH	R2WTHH:W2 Household Analysis Weight	Cont
3	R3WTHH	R3WTHH:W3 Household Analysis Weight	Cont
4	R4WTHH	R4WTHH:W4 Household Analysis Weight	Cont
5	R5WTHH	R5WTHH:W5 Household Analysis Weight	Cont
6	R6WTHH	R6WTHH:W6 Household Analysis Weight	Cont
7	R7WTHH	R7WTHH:W7 Household Analysis Weight	Cont
8	R8WTHH	R8WTHH:W8 Household Analysis Weight	Cont
9	R9WTHH	R9WTHH:W9 Household Analysis Weight	Cont
10	R10WTHH	R10WTHH:W10 Household Analysis Weight	Cont
11	R11WTHH	R11WTHH:W11 Household Analysis Weight	Cont
12	R12WTHH	R12WTHH:W12 Household Analysis Weight	Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1WTHH	12652	2408.41	1052.21	0.0	7380.0
R2WTHH	19642	2710.33	1200.69	0.0	10003.0
R3WTHH	17991	2792.74	1315.28	0.0	11557.0
R4WTHH	21384	3238.12	1911.60	0.0	13512.0
R5WTHH	19579	3386.56	2125.09	0.0	25973.0
R6WTHH	18165	3562.30	2222.33	0.0	13193.0
R7WTHH	20129	3918.32	2580.83	0.0	13146.0
R8WTHH	18469	4093.87	2801.06	0.0	14375.0
R9WTHH	17217	4158.92	2870.62	0.0	13209.0
R10WTHH	22034	4215.08	3447.82	0.0	17462.0
R11WTHH	20554	4338.55	3654.94	0.0	17875.0
R12WTHH	18747	4502.05	3827.62	0.0	18460.0

## How Constructed

The household weights are taken directly from the Tracker file.

In 2010 HRS updated the household weight variables, due to a change in the CPS weights, and in part due to a calculation error.

An HRS analysis shows that these revisions do not substantially alter the weights, and do not significantly affect weighted distributions of key variables. Analyses done with the earlier versions of sampling weights should not in general require revision. Some possible exceptions include analyses that present population estimates (counts or percentages) for the 1995 AHEAD cohort or for the EBB non-minority (White/other) sample. Analyses that compare the EBB non-minority cohort to other subgroups may also be affected by the new weights. The full report can be found on the HRS website in the data description for the 2010 tracker file.

## Cross Wave Differences in Original HRS Data

The household weights on the Tracker file are based on WGTBYR, which may differ from the Respondent's BIRTHYR used as the basis for birth year derived on these files. If the WGTBYR for someone in the HRS cohort sample (see HACOHORT) is outside of 1931-1941 or missing for all Respondents in a household, then the household may have a zero weight in W1, but still be HRS eligible (someone born 1931-1941) according to the household member's BIRTHYR. The same is also true for the AHEAD sample, the only difference being that these individuals were born prior to 1924. WGTBYR was provided as a variable on Tracker V2.0 but is not included in the current file. Other variables are available on the current Tracker which may help analysts determine why weights are not as expected. They are xWHY0WGT (where "x" is A through K depending on the interview year), xWHY0RWT (beginning in 2004), and WTCOHORT, which gives the birth cohort used for calculating weights.

The weights are structured to match the CPS from 1992-2002 and the ACS from 2004 forward, which includes living, non-institutionalized Respondents. A household where the only or both Respondents are institutionalized at the time of the interview (e.g., living in a nursing home) will have zero household weights for that wave.

HRS Respondents who were given to the AHEAD study (overlap households) are assigned a weight of zero for HRS Wave 1.

Thus, there are cases where Respondents in a given wave have zero household weight for the wave on these files.

Note also that in HRS 1998, the AHEAD and HRS cohorts are combined, and the CODA and WB cohorts are added. The weights derived for waves from 1998 forward used Respondents from ALL cohorts (age-eligible for the entry cohort or not) to match the CPS/ACS-reported population sums. This means that some of the weight for the HRS birth year entry cohort is assigned to Respondents in other cohorts who happen to have been born 1931-1941, and some of the weight assigned to HRS birth year entry cohort Respondents outside the 1931-1941 range, accounts for some of the weight for other birth year entry cohorts.

## HRS Variables Used

### Tracker:

AWGTHH	1992 WEIGHT: HOUSEHOLD-LEVEL
BWGTHH	1993 WEIGHT: HOUSEHOLD-LEVEL
CWGTHH	1994 WEIGHT: HOUSEHOLD-LEVEL
DWGTHH	1995 WEIGHT: HOUSEHOLD-LEVEL
EWGTHH	1996 WEIGHT: HOUSEHOLD-LEVEL
FWGTHH	1998 WEIGHT: HOUSEHOLD-LEVEL
GWGTHH	2000 WEIGHT: HOUSEHOLD-LEVEL
HWGTHH	2002 WEIGHT: HOUSEHOLD LEVEL
JWGTHH	2004 WEIGHT: HOUSEHOLD LEVEL
KWGTHH	2006 WEIGHT: HOUSEHOLD LEVEL
LWGTHH	2008 WEIGHT: HOUSEHOLD LEVEL
MWGTHH	2010 WEIGHT: HOUSEHOLD LEVEL
NWGTHH	2012 WEIGHT: HOUSEHOLD LEVEL
OWGTHH	2014 WEIGHT: HOUSEHOLD LEVEL

### Person-Level Analysis Weight

Wave	Variable Name	Variable Label	Type
1	R1WTRESP	R1WTRESP:W1 Person-Level Analysis Weight	Cont
2	R2WTRESP	R2WTRESP:W2 Person-Level Analysis Weight	Cont
3	R3WTRESP	R3WTRESP:W3 Person-Level Analysis Weight	Cont
4	R4WTRESP	R4WTRESP:W4 Person-Level Analysis Weight	Cont
5	R5WTRESP	R5WTRESP:W5 Person-Level Analysis Weight	Cont
6	R6WTRESP	R6WTRESP:W6 Person-Level Analysis Weight	Cont
7	R7WTRESP	R7WTRESP:W7 Person-Level Analysis Weight	Cont
8	R8WTRESP	R8WTRESP:W8 Person-Level Analysis Weight	Cont
9	R9WTRESP	R9WTRESP:W9 Person-Level Analysis Weight	Cont
10	R10WTRESP	R10WTRESP:W10 Person-Level Analysis Weight	Cont
11	R11WTRESP	R11WTRESP:W11 Person-Level Analysis Weight	Cont
12	R12WTRESP	R12WTRESP:W12 Person-Level Analysis Weight	Cont
1	S1WTRESP	S1WTRESP:W1 Person-Level Analysis Weight	Cont
2	S2WTRESP	S2WTRESP:W2 Person-Level Analysis Weight	Cont
3	S3WTRESP	S3WTRESP:W3 Person-Level Analysis Weight	Cont
4	S4WTRESP	S4WTRESP:W4 Person-Level Analysis Weight	Cont
5	S5WTRESP	S5WTRESP:W5 Person-Level Analysis Weight	Cont
6	S6WTRESP	S6WTRESP:W6 Person-Level Analysis Weight	Cont
7	S7WTRESP	S7WTRESP:W7 Person-Level Analysis Weight	Cont
8	S8WTRESP	S8WTRESP:W8 Person-Level Analysis Weight	Cont
9	S9WTRESP	S9WTRESP:W9 Person-Level Analysis Weight	Cont
10	S10WTRESP	S10WTRESP:W10 Person-Level Analysis Weight	Cont
11	S11WTRESP	S11WTRESP:W11 Person-Level Analysis Weight	Cont
12	S12WTRESP	S12WTRESP:W12 Person-Level Analysis Weight	Cont
5	R5WTR_NH	R5WTR_NH:W5 NursHm Resident Analysis Weight	Cont
6	R6WTR_NH	R6WTR_NH:W6 NursHm Resident Analysis Weight	Cont
7	R7WTR_NH	R7WTR_NH:W7 NursHm Resident Analysis Weight	Cont
8	R8WTR_NH	R8WTR_NH:W8 NursHm Resident Analysis Weight	Cont
9	R9WTR_NH	R9WTR_NH:W9 NursHm Resident Analysis Weight	Cont
10	R10WTR_NH	R10WTR_NH:W10 NursHm Resident Analysis Weight	Cont
11	R11WTR_NH	R11WTR_NH:W11 NursHm Resident Analysis Weight	Cont
12	R12WTR_NH	R12WTR_NH:W12 NursHm Resident Analysis Weight	Cont
5	S5WTR_NH	S5WTR_NH:W5 NursHm Resident Analysis Weight	Cont
6	S6WTR_NH	S6WTR_NH:W6 NursHm Resident Analysis Weight	Cont
7	S7WTR_NH	S7WTR_NH:W7 NursHm Resident Analysis Weight	Cont
8	S8WTR_NH	S8WTR_NH:W8 NursHm Resident Analysis Weight	Cont
9	S9WTR_NH	S9WTR_NH:W9 NursHm Resident Analysis Weight	Cont
10	S10WTR_NH	S10WTR_NH:W10 NursHm Resident Analysis Weight	Cont
11	S11WTR_NH	S11WTR_NH:W11 NursHm Resident Analysis Weight	Cont
12	S12WTR_NH	S12WTR_NH:W12 NursHm Resident Analysis Weight	Cont
1	R1WTCRNL	R1WTCRNL:W1 Combined Resp. weight and NursHm Resident weight	Cont
2	R2WTCRNL	R2WTCRNL:W2 Combined Resp. weight and NursHm Resident weight	Cont
3	R3WTCRNL	R3WTCRNL:W3 Combined Resp. weight and NursHm Resident weight	Cont
4	R4WTCRNL	R4WTCRNL:W4 Combined Resp. weight and NursHm Resident weight	Cont
5	R5WTCRNL	R5WTCRNL:W5 Combined Resp. weight and NursHm Resident weight	Cont
6	R6WTCRNL	R6WTCRNL:W6 Combined Resp. weight and NursHm Resident weight	Cont
7	R7WTCRNL	R7WTCRNL:W7 Combined Resp. weight and NursHm Resident weight	Cont
8	R8WTCRNL	R8WTCRNL:W8 Combined Resp. weight and NursHm Resident weight	Cont
9	R9WTCRNL	R9WTCRNL:W9 Combined Resp. weight and NursHm Resident weight	Cont
10	R10WTCRNL	R10WTCRNL:W10 Combined Resp. weight and NursHm Resident weight	Cont
11	R11WTCRNL	R11WTCRNL:W11 Combined Resp. weight and NursHm Resident weight	Cont
12	R12WTCRNL	R12WTCRNL:W12 Combined Resp. weight and NursHm Resident weight	Cont
1	S1WTCRNL	S1WTCRNL:W1 Combined Resp. weight and NursHm Resident weight	Cont
2	S2WTCRNL	S2WTCRNL:W2 Combined Resp. weight and NursHm Resident weight	Cont
3	S3WTCRNL	S3WTCRNL:W3 Combined Resp. weight and NursHm Resident weight	Cont
4	S4WTCRNL	S4WTCRNL:W4 Combined Resp. weight and NursHm Resident weight	Cont
5	S5WTCRNL	S5WTCRNL:W5 Combined Resp. weight and NursHm Resident weight	Cont
6	S6WTCRNL	S6WTCRNL:W6 Combined Resp. weight and NursHm Resident weight	Cont
7	S7WTCRNL	S7WTCRNL:W7 Combined Resp. weight and NursHm Resident weight	Cont
8	S8WTCRNL	S8WTCRNL:W8 Combined Resp. weight and NursHm Resident weight	Cont
9	S9WTCRNL	S9WTCRNL:W9 Combined Resp. weight and NursHm Resident weight	Cont



10	S10WTCRNH	S10WTCRNH:W10 Combined Resp. weight and NursHm Resident weight Cont
11	S11WTCRNH	S11WTCRNH:W11 Combined Resp. weight and NursHm Resident weight Cont
12	S12WTCRNH	S12WTCRNH:W12 Combined Resp. weight and NursHm Resident weight Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1WTRESP	12652	1939.03	1378.59	0.0	7710.0
R2WTRESP	19642	2346.18	1503.49	0.0	10956.0
R3WTRESP	17991	2367.79	1604.28	0.0	13795.0
R4WTRESP	21384	3189.06	1972.98	0.0	16153.0
R5WTRESP	19579	3288.55	2149.96	0.0	27408.0
R6WTRESP	18165	3415.77	2241.68	0.0	19101.0
R7WTRESP	20129	3985.39	2834.74	0.0	16170.0
R8WTRESP	18469	4154.28	3019.87	0.0	17035.0
R9WTRESP	17217	4220.44	3113.39	0.0	16558.0
R10WTRESP	22034	4304.30	3734.48	0.0	19408.0
R11WTRESP	20554	4412.71	3923.57	0.0	19866.0
R12WTRESP	18747	4614.81	4147.64	0.0	20368.0
S1WTRESP	9900	1830.30	1419.98	0.0	7710.0
S2WTRESP	13088	2186.32	1589.97	0.0	10956.0
S3WTRESP	11915	2187.79	1636.49	0.0	13795.0
S4WTRESP	13978	3069.16	1883.98	0.0	16153.0
S5WTRESP	12730	3202.42	2023.21	0.0	12159.0
S6WTRESP	11639	3367.77	2220.86	0.0	19101.0
S7WTRESP	12972	4033.28	2869.39	0.0	16170.0
S8WTRESP	11735	4243.69	3075.27	0.0	17035.0
S9WTRESP	10646	4333.94	3211.33	0.0	16558.0
S10WTRESP	13513	4384.00	3745.25	0.0	19408.0
S11WTRESP	12488	4508.76	3954.19	0.0	19866.0
S12WTRESP	11027	4780.92	4224.00	0.0	20368.0
R5WTR_NH	19579	84.61	612.63	0.0	9498.0
R6WTR_NH	18165	89.55	624.88	0.0	11127.0
R7WTR_NH	20129	78.25	578.51	0.0	10138.0
R8WTR_NH	18469	81.93	586.14	0.0	12630.0
R9WTR_NH	17217	83.44	578.26	0.0	12516.0
R10WTR_NH	22034	62.55	491.55	0.0	11755.0
R11WTR_NH	20554	66.62	499.09	0.0	9642.0
R12WTR_NH	18747	73.93	557.31	0.0	11367.0
S5WTR_NH	12730	27.71	369.95	0.0	9498.0
S6WTR_NH	11639	27.31	377.44	0.0	11127.0
S7WTR_NH	12972	22.13	317.95	0.0	10138.0
S8WTR_NH	11735	24.09	310.72	0.0	10270.0
S9WTR_NH	10646	23.65	310.21	0.0	12516.0
S10WTR_NH	13513	24.24	307.57	0.0	9018.0
S11WTR_NH	12488	23.73	312.15	0.0	9642.0
S12WTR_NH	11027	25.33	348.97	0.0	11367.0
R1WTCRNH	12652	1939.03	1378.59	0.0	7710.0
R2WTCRNH	19642	2346.18	1503.49	0.0	10956.0
R3WTCRNH	17991	2367.79	1604.28	0.0	13795.0
R4WTCRNH	21384	3189.06	1972.98	0.0	16153.0
R5WTCRNH	19579	3373.16	2107.40	0.0	27408.0

R6WTCRNL	18165	3505.32	2191.75	0.0	19101.0
R7WTCRNL	20129	4063.64	2783.29	0.0	16170.0
R8WTCRNL	18469	4236.21	2963.52	0.0	17035.0
R9WTCRNL	17217	4303.88	3053.39	0.0	16558.0
R10WTCRNL	22034	4366.85	3694.52	0.0	19408.0
R11WTCRNL	20554	4479.33	3880.14	0.0	19866.0
R12WTCRNL	18747	4688.75	4102.58	0.0	20368.0
S1WTCRNL	9900	1830.30	1419.98	0.0	7710.0
S2WTCRNL	13088	2186.32	1589.97	0.0	10956.0
S3WTCRNL	11915	2187.79	1636.49	0.0	13795.0
S4WTCRNL	13978	3069.16	1883.98	0.0	16153.0
S5WTCRNL	12730	3230.13	2013.15	0.0	12159.0
S6WTCRNL	11639	3395.08	2211.49	0.0	19101.0
S7WTCRNL	12972	4055.41	2855.85	0.0	16170.0
S8WTCRNL	11735	4267.78	3057.67	0.0	17035.0
S9WTCRNL	10646	4357.60	3194.34	0.0	16558.0
S10WTCRNL	13513	4408.25	3729.46	0.0	19408.0
S11WTCRNL	12488	4532.49	3939.41	0.0	19866.0
S12WTCRNL	11027	4806.25	4209.72	0.0	20368.0

## How Constructed

The person-level weights are taken directly from the Tracker file and assigned to **RwWTRESP**. The person-level weights apply to those residing in the community, so are zero for those living in a nursing home.

From Wave 5, HRS provides weights for individuals living in a nursing home. These weights are provided in **RwWTR\_NH**. For those not living in a nursing home, these weights are zero.

Nursing home weights become available for the most recent wave when a final release of the Tracker file is completed. Early Release Tracker does not contain nursing home weights so **RwWTCRNL** equals **RwWTRESP**.

**RwWTCRNL** is the person-level weight and the nursing home weight combined. From Wave 1 to 4, there is no nursing home weight so **RwWTCRNL** equals **RwWTRESP**.

From Wave 5, for those not living in a nursing home, **RwWTCRNL** equals **RwWTRESP** and for those living in a nursing home, **RwWTCRNL** equals **RwWTR\_NH**.

The spouse's person-level weight is taken from the Wave "w" spouse's variable, i.e., from the Wave "w" spouse's **RwWTRESP**, **RwWTR\_NH** or **RwWTCRNL**.

In 2010 HRS updated the weight variables, due to a change in the CPS weights, and in part due to a calculation error.

An HRS analysis shows that these revisions do not substantially alter the weights, and do not significantly affect weighted distributions of key variables. Analyses done with the earlier versions of sampling weights should not, in general, require revision. Some possible exceptions include analyses that present population estimates (counts or percentages) for the 1995 AHEAD cohort, or for the EBB non-minority (White/other) sample. Analyses that compare the EBB non-minority cohort to other subgroups may also be affected by the new weights. The full report can be found on the HRS website in the data description for the 2010 tracker file.

## Cross Wave Differences in Original HRS Data

The standard HRS weights are structured to match the CPS from 1992-2002 and the ACS from 2004 forward, which includes living, non-institutionalized Respondents. HRS sets these person-level weights to zero for those not age-eligible, living outside the U.S., or living in a nursing home. Starting in 2000, HRS provides separate person-level weights for nursing home residents.

The person-level weights on the Tracker file are based on WGTBYR which differ from the Respondent's BIRTHYR used as the basis for birth year derived on these files. If the WGTBYR for someone in the HRS cohort sample (see HACOHORT) is outside of 1931-1941 or missing, then a Respondent may have a zero weight in W1, but still be HRS eligible (someone born 1931-1941) according to BIRTHYR. The same is also true for the AHEAD sample, the only difference being that these individuals were born prior to 1924. WGTBYR was provided as a variable on Tracker V2.0, but has not been included on more recent versions of Tracker. Other variables available on more recent versions of Tracker may help analysts determine why weights are not as expected. They are xWHY0WGT (where "x" is A through K depending on the interview year), xWHY0RWT (beginning in 2004), and WTCOHORT, which gives the birth cohort used for calculating weights.

A Respondent who is institutionalized, e.g., in a nursing home, at the time of the interview will have zero person-level weight for that wave.

HRS Respondents who were given to the AHEAD study (overlap households) are assigned a weight of zero for HRS Wave 1.

Thus, there are cases where Respondents in a given wave have a zero person-level weight for the wave on these files.

Note also that in HRS 1998 the AHEAD and HRS cohorts are combined, and the CODA and WB cohorts are added. The weights derived for waves from 1998 forward used Respondents from ALL cohorts (age-eligible for the entry cohort or not) to match the CPS/ACS-reported population sums. This means that some of the weight for the HRS birth year entry cohort is assigned to Respondents in other cohorts who happen to have been born 1931-1941, and some of the weight assigned to HRS birth year entry cohort Respondents outside the 1931-1941 range, accounts for some of the weight for other birth year entry cohorts.

## HRS Variables Used

Tracker:

AWGTR	1992 WEIGHT: RESPONDENT-LEVEL
BWGTR	1993 WEIGHT: RESPONDENT-LEVEL
CWGTR	1994 WEIGHT: RESPONDENT-LEVEL
DWGTR	1995 WEIGHT: RESPONDENT-LEVEL
EWGTR	1996 WEIGHT: RESPONDENT-LEVEL
FWGTR	1998 WEIGHT: RESPONDENT-LEVEL
GWGTR	2000 WEIGHT: RESPONDENT-LEVEL
GWGTRNH	2000 WEIGHT: NURSING HOME RESIDENT
HWGTR	2002 WEIGHT: RESPONDENT-LEVEL
HWGTRNH	2002 WEIGHT: NURSING HOME RESIDENT
JWGTR	2004 WEIGHT: RESPONDENT LEVEL
JWGTRNH	2004 WEIGHT: NURSING HOME RESIDENT
KWGTR	2006 WEIGHT: RESPONDENT LEVEL
KWGTRNH	2006 WEIGHT: NURSING HOME RESIDENT
LWGTR	2008 WEIGHT: RESPONDENT LEVEL
LWGTRNH	2008 WEIGHT: NURSING HOME RESIDENT

MWGTR	2010 WEIGHT: RESPONDENT LEVEL
MWGTRNH	2010 WEIGHT: NURSING HOME RESIDENT
NWGTR	2012 WEIGHT: RESPONDENT LEVEL
NWGTRNH	2012 WEIGHT: NURSING HOME RESIDENT
OWGTR	2014 WEIGHT: RESPONDENT LEVEL

<b>Number of Household Respondents</b>
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Wave	Variable Name	Variable Label	Type
1	H1HHRESP	H1HHRESP:W1 # core respondents in HH	Cont
2	H2HHRESP	H2HHRESP:W2 # core respondents in HH	Cont
3	H3HHRESP	H3HHRESP:W3 # core respondents in HH	Cont
4	H4HHRESP	H4HHRESP:W4 # core respondents in HH	Cont
5	H5HHRESP	H5HHRESP:W5 # core respondents in HH	Cont
6	H6HHRESP	H6HHRESP:W6 # core respondents in HH	Cont
7	H7HHRESP	H7HHRESP:W7 # core respondents in HH	Cont
8	H8HHRESP	H8HHRESP:W8 # core respondents in HH	Cont
9	H9HHRESP	H9HHRESP:W9 # core respondents in HH	Cont
10	H10HHRESP	H10HHRESP:W10 # core respondents in HH	Cont
11	H11HHRESP	H11HHRESP:W11 # core respondents in HH	Cont
12	H12HHRESP	H12HHRESP:W12 # core respondents in HH	Cont

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
H1HHRESP	12652	1.78	0.41	1.0	2.0
H2HHRESP	19642	1.67	0.47	1.0	2.0
H3HHRESP	17991	1.66	0.47	1.0	2.0
H4HHRESP	21384	1.65	0.48	1.0	2.0
H5HHRESP	19579	1.65	0.48	1.0	2.0
H6HHRESP	18165	1.64	0.48	1.0	2.0
H7HHRESP	20129	1.64	0.48	1.0	2.0
H8HHRESP	18469	1.64	0.48	1.0	2.0
H9HHRESP	17217	1.62	0.49	1.0	2.0
H10HHRESP	22034	1.61	0.49	1.0	2.0
H11HHRESP	20554	1.61	0.49	1.0	2.0
H12HHRESP	18747	1.59	0.49	1.0	2.0

### How Constructed

HwHHRESP is the number of individuals in the household who actually responded at each wave. It counts the Respondent and spouse, if any, and if the spouse responded, takes on a value of 1 or 2. Individuals with a value greater than zero for INWw are counted by wave-specific household, i.e., by a sub-household ID, which is included in HwHHID.

The value is missing if an individual did not respond in Wave 'w.' Thus, HwHHRESP is simply an indicator of whether the individual is the only Respondent in the household or not.

### HRS Variables Used

Tracker:

ASUBHH	1992	SUB-HOUSEHOLD	IDENTIFIER
BSUBHH	1993	SUB-HOUSEHOLD	IDENTIFIER
CSUBHH	1994	SUB-HOUSEHOLD	IDENTIFIER
DSUBHH	1995	SUB-HOUSEHOLD	IDENTIFIER
ESUBHH	1996	SUB-HOUSEHOLD	IDENTIFIER
FSUBHH	1998	SUB-HOUSEHOLD	IDENTIFIER

GSUBHH	2000	SUB-HOUSEHOLD	IDENTIFIER
HHID		HOUSEHOLD	IDENTIFIER
HSUBHH	2002	SUB-HOUSEHOLD	IDENTIFIER
JSUBHH	2004	SUB-HOUSEHOLD	IDENTIFIER
KSUBHH	2006	SUB-HOUSEHOLD	IDENTIFIER
LSUBHH	2008	SUB-HOUSEHOLD	IDENTIFIER
MSUBHH	2010	SUB-HOUSEHOLD	IDENTIFIER
NSUBHH	2012	SUB-HOUSEHOLD	IDENTIFIER
OSUBHH	2014	SUB-HOUSEHOLD	IDENTIFIER

Whether Couple Household				
Wave	Variable Name	Variable Label		Type
1	H1CPL	H1CPL:W1	Whether couple HHold	Categ
2	H2CPL	H2CPL:W2	Whether couple HHold	Categ
3	H3CPL	H3CPL:W3	Whether couple HHold	Categ
4	H4CPL	H4CPL:W4	Whether couple HHold	Categ
5	H5CPL	H5CPL:W5	Whether couple HHold	Categ
6	H6CPL	H6CPL:W6	Whether couple HHold	Categ
7	H7CPL	H7CPL:W7	Whether couple HHold	Categ
8	H8CPL	H8CPL:W8	Whether couple HHold	Categ
9	H9CPL	H9CPL:W9	Whether couple HHold	Categ
10	H10CPL	H10CPL:W10	Whether couple HHold	Categ
11	H11CPL	H11CPL:W11	Whether couple HHold	Categ
12	H12CPL	H12CPL:W12	Whether couple HHold	Categ

Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
H1CPL	12652	0.81	0.39	0.0	1.0
H2CPL	19642	0.70	0.46	0.0	1.0
H3CPL	17991	0.69	0.46	0.0	1.0
H4CPL	21384	0.68	0.47	0.0	1.0
H5CPL	19579	0.67	0.47	0.0	1.0
H6CPL	18165	0.65	0.48	0.0	1.0
H7CPL	20129	0.66	0.47	0.0	1.0
H8CPL	18469	0.65	0.48	0.0	1.0
H9CPL	17217	0.64	0.48	0.0	1.0
H10CPL	22034	0.65	0.48	0.0	1.0
H11CPL	20554	0.64	0.48	0.0	1.0
H12CPL	18747	0.62	0.49	0.0	1.0

Categorical Variable Codes

Value	H1CPL	H2CPL	H3CPL	H4CPL	H5CPL	H6CPL	H7CPL
0.Not a couple HH	2373	5970	5658	6869	6538	6306	6777
1.Couple HH	10279	13672	12333	14515	13041	11859	13352
Value	H8CPL	H9CPL	H10CPL	H11CPL	H12CPL		
0.Not a couple HH	6417	6205	7799	7474	7127		
1.Couple HH	12052	11012	14235	13080	11620		

How Constructed

HwCPL indicates whether this household is treated as a couple household or not. Households in HRS can consist of a single Respondent or a couple. HwCPL is set to "1" if the Respondent is married (RwMSTAT or RwMSTATH is married or partnered), partnered (RwMPART=1), or if there are two Respondents in the wave-specific household (HwHHRESP=2). Otherwise a single Respondent is assumed, and HwCPL is set to "0." As with most other RAND HRS variables, HwCPL is missing in waves where the Respondent does not respond.



<b>Financial, Family Respondent</b>
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Wave	Variable Name	Variable Label	Type
1	R1FAMR	R1FAMR:W1 Whether Family Resp	Categ
2	R2FAMR	R2FAMR:W2 Whether Family Resp	Categ
3	R3FAMR	R3FAMR:W3 Whether Family Resp	Categ
4	R4FAMR	R4FAMR:W4 Whether Family Resp	Categ
5	R5FAMR	R5FAMR:W5 Whether Family Resp	Categ
6	R6FAMR	R6FAMR:W6 Whether Family Resp	Categ
7	R7FAMR	R7FAMR:W7 Whether Family Resp	Categ
8	R8FAMR	R8FAMR:W8 Whether Family Resp	Categ
9	R9FAMR	R9FAMR:W9 Whether Family Resp	Categ
10	R10FAMR	R10FAMR:W10 Whether Family Resp	Categ
11	R11FAMR	R11FAMR:W11 Whether Family Resp	Categ
12	R12FAMR	R12FAMR:W12 Whether Family Resp	Categ
1	S1FAMR	S1FAMR:W1 Whether Family Resp	Categ
2	S2FAMR	S2FAMR:W2 Whether Family Resp	Categ
3	S3FAMR	S3FAMR:W3 Whether Family Resp	Categ
4	S4FAMR	S4FAMR:W4 Whether Family Resp	Categ
5	S5FAMR	S5FAMR:W5 Whether Family Resp	Categ
6	S6FAMR	S6FAMR:W6 Whether Family Resp	Categ
7	S7FAMR	S7FAMR:W7 Whether Family Resp	Categ
8	S8FAMR	S8FAMR:W8 Whether Family Resp	Categ
9	S9FAMR	S9FAMR:W9 Whether Family Resp	Categ
10	S10FAMR	S10FAMR:W10 Whether Family Resp	Categ
11	S11FAMR	S11FAMR:W11 Whether Family Resp	Categ
12	S12FAMR	S12FAMR:W12 Whether Family Resp	Categ
1	R1FINR	R1FINR:W1 Whether Financial Resp	Categ
2	R2FINR	R2FINR:W2 Whether Financial Resp	Categ
3	R3FINR	R3FINR:W3 Whether Financial Resp	Categ
4	R4FINR	R4FINR:W4 Whether Financial Resp	Categ
5	R5FINR	R5FINR:W5 Whether Financial Resp	Categ
6	R6FINR	R6FINR:W6 Whether Financial Resp	Categ
7	R7FINR	R7FINR:W7 Whether Financial Resp	Categ
8	R8FINR	R8FINR:W8 Whether Financial Resp	Categ
9	R9FINR	R9FINR:W9 Whether Financial Resp	Categ
10	R10FINR	R10FINR:W10 Whether Financial Resp	Categ
11	R11FINR	R11FINR:W11 Whether Financial Resp	Categ
12	R12FINR	R12FINR:W12 Whether Financial Resp	Categ
1	S1FINR	S1FINR:W1 Whether Financial Resp	Categ
2	S2FINR	S2FINR:W2 Whether Financial Resp	Categ
3	S3FINR	S3FINR:W3 Whether Financial Resp	Categ
4	S4FINR	S4FINR:W4 Whether Financial Resp	Categ
5	S5FINR	S5FINR:W5 Whether Financial Resp	Categ
6	S6FINR	S6FINR:W6 Whether Financial Resp	Categ
7	S7FINR	S7FINR:W7 Whether Financial Resp	Categ
8	S8FINR	S8FINR:W8 Whether Financial Resp	Categ
9	S9FINR	S9FINR:W9 Whether Financial Resp	Categ
10	S10FINR	S10FINR:W10 Whether Financial Resp	Categ
11	S11FINR	S11FINR:W11 Whether Financial Resp	Categ
12	S12FINR	S12FINR:W12 Whether Financial Resp	Categ
1	H1ANYFAM	H1ANYFAM:W1 Whether any FamR in HH	Categ
2	H2ANYFAM	H2ANYFAM:W2 Whether any FamR in HH	Categ
3	H3ANYFAM	H3ANYFAM:W3 Whether any FamR in HH	Categ
4	H4ANYFAM	H4ANYFAM:W4 Whether any FamR in HH	Categ
5	H5ANYFAM	H5ANYFAM:W5 Whether any FamR in HH	Categ
6	H6ANYFAM	H6ANYFAM:W6 Whether any FamR in HH	Categ
7	H7ANYFAM	H7ANYFAM:W7 Whether any FamR in HH	Categ
8	H8ANYFAM	H8ANYFAM:W8 Whether any FamR in HH	Categ
9	H9ANYFAM	H9ANYFAM:W9 Whether any FamR in HH	Categ
10	H10ANYFAM	H10ANYFAM:W10 Whether any FamR in HH	Categ
11	H11ANYFAM	H11ANYFAM:W11 Whether any FamR in HH	Categ
12	H12ANYFAM	H12ANYFAM:W12 Whether any FamR in HH	Categ
1	H1ANYFIN	H1ANYFIN:W1 Whether any FinR in HH	Categ

2	H2ANYFIN	H2ANYFIN:W2 Whether any FinR in HH	Categ
3	H3ANYFIN	H3ANYFIN:W3 Whether any FinR in HH	Categ
4	H4ANYFIN	H4ANYFIN:W4 Whether any FinR in HH	Categ
5	H5ANYFIN	H5ANYFIN:W5 Whether any FinR in HH	Categ
6	H6ANYFIN	H6ANYFIN:W6 Whether any FinR in HH	Categ
7	H7ANYFIN	H7ANYFIN:W7 Whether any FinR in HH	Categ
8	H8ANYFIN	H8ANYFIN:W8 Whether any FinR in HH	Categ
9	H9ANYFIN	H9ANYFIN:W9 Whether any FinR in HH	Categ
10	H10ANYFIN	H10ANYFIN:W10 Whether any FinR in HH	Categ
11	H11ANYFIN	H11ANYFIN:W11 Whether any FinR in HH	Categ
12	H12ANYFIN	H12ANYFIN:W12 Whether any FinR in HH	Categ
1	H1PICKHH	H1PICKHH:W1 Select subHH level file	Categ
2	H2PICKHH	H2PICKHH:W2 Select subHH level file	Categ
3	H3PICKHH	H3PICKHH:W3 Select subHH level file	Categ
4	H4PICKHH	H4PICKHH:W4 Select subHH level file	Categ
5	H5PICKHH	H5PICKHH:W5 Select subHH level file	Categ
6	H6PICKHH	H6PICKHH:W6 Select subHH level file	Categ
7	H7PICKHH	H7PICKHH:W7 Select subHH level file	Categ
8	H8PICKHH	H8PICKHH:W8 Select subHH level file	Categ
9	H9PICKHH	H9PICKHH:W9 Select subHH level file	Categ
10	H10PICKHH	H10PICKHH:W10 Select subHH level file	Categ
11	H11PICKHH	H11PICKHH:W11 Select subHH level file	Categ
12	H12PICKHH	H12PICKHH:W12 Select subHH level file	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1FAMR	12652	0.60	0.49	0.0	1.0
R2FAMR	19642	0.66	0.47	0.0	1.0
R3FAMR	17991	0.67	0.47	0.0	1.0
R4FAMR	21384	0.66	0.47	0.0	1.0
R5FAMR	19579	0.67	0.47	0.0	1.0
R6FAMR	18165	0.68	0.47	0.0	1.0
R7FAMR	20129	0.67	0.47	0.0	1.0
R8FAMR	18469	0.68	0.47	0.0	1.0
R9FAMR	17217	0.69	0.46	0.0	1.0
R10FAMR	22034	0.68	0.47	0.0	1.0
R11FAMR	20554	0.69	0.46	0.0	1.0
R12FAMR	18747	0.70	0.46	0.0	1.0
S1FAMR	9900	0.50	0.50	0.0	1.0
S2FAMR	13088	0.50	0.50	0.0	1.0
S3FAMR	11915	0.50	0.50	0.0	1.0
S4FAMR	13978	0.50	0.50	0.0	1.0
S5FAMR	12730	0.50	0.50	0.0	1.0
S6FAMR	11639	0.50	0.50	0.0	1.0
S7FAMR	12972	0.50	0.50	0.0	1.0
S8FAMR	11735	0.50	0.50	0.0	1.0
S9FAMR	10646	0.50	0.50	0.0	1.0
S10FAMR	13513	0.50	0.50	0.0	1.0
S11FAMR	12488	0.50	0.50	0.0	1.0
S12FAMR	11027	0.50	0.50	0.0	1.0
R1FINR	12652	0.60	0.49	0.0	1.0
R2FINR	19642	0.66	0.47	0.0	1.0
R3FINR	17991	0.66	0.47	0.0	1.0
R4FINR	21384	0.67	0.47	0.0	1.0
R5FINR	19579	0.67	0.47	0.0	1.0
R6FINR	18165	0.68	0.47	0.0	1.0

R7FINR	20129	0.67	0.47	0.0	1.0
R8FINR	18469	0.68	0.47	0.0	1.0
R9FINR	17217	0.69	0.46	0.0	1.0
R10FINR	22034	0.69	0.46	0.0	1.0
R11FINR	20554	0.69	0.46	0.0	1.0
R12FINR	18747	0.70	0.46	0.0	1.0
S1FINR	9900	0.50	0.50	0.0	1.0
S2FINR	13088	0.50	0.50	0.0	1.0
S3FINR	11915	0.50	0.50	0.0	1.0
S4FINR	13978	0.50	0.50	0.0	1.0
S5FINR	12730	0.50	0.50	0.0	1.0
S6FINR	11639	0.50	0.50	0.0	1.0
S7FINR	12972	0.50	0.50	0.0	1.0
S8FINR	11735	0.50	0.50	0.0	1.0
S9FINR	10646	0.50	0.50	0.0	1.0
S10FINR	13513	0.50	0.50	0.0	1.0
S11FINR	12488	0.50	0.50	0.0	1.0
S12FINR	11027	0.50	0.50	0.0	1.0
H1ANYFAM	12652	0.99	0.11	0.0	1.0
H2ANYFAM	19642	0.99	0.10	0.0	1.0
H3ANYFAM	17991	1.00	0.06	0.0	1.0
H4ANYFAM	21384	0.99	0.10	0.0	1.0
H5ANYFAM	19579	0.99	0.07	0.0	1.0
H6ANYFAM	18165	1.00	0.01	0.0	1.0
H7ANYFAM	20129	0.99	0.08	0.0	1.0
H8ANYFAM	18469	1.00	0.07	0.0	1.0
H9ANYFAM	17217	1.00	0.07	0.0	1.0
H10ANYFAM	22034	0.99	0.12	0.0	1.0
H11ANYFAM	20554	0.99	0.09	0.0	1.0
H12ANYFAM	18747	0.99	0.09	0.0	1.0
H1ANYFIN	12652	0.99	0.09	0.0	1.0
H2ANYFIN	19642	0.99	0.09	0.0	1.0
H3ANYFIN	17991	1.00	0.07	0.0	1.0
H4ANYFIN	21384	0.99	0.08	0.0	1.0
H5ANYFIN	19579	1.00	0.07	0.0	1.0
H6ANYFIN	18165	1.00	0.04	0.0	1.0
H7ANYFIN	20129	1.00	0.05	0.0	1.0
H8ANYFIN	18469	1.00	0.05	0.0	1.0
H9ANYFIN	17217	1.00	0.06	0.0	1.0
H10ANYFIN	22034	0.99	0.08	0.0	1.0
H11ANYFIN	20554	0.99	0.08	0.0	1.0
H12ANYFIN	18747	0.99	0.09	0.0	1.0
H1PICKHH	37495	0.21	0.40	0.0	1.0
H2PICKHH	37495	0.35	0.48	0.0	1.0
H3PICKHH	37495	0.32	0.47	0.0	1.0
H4PICKHH	37495	0.38	0.49	0.0	1.0
H5PICKHH	37495	0.35	0.48	0.0	1.0
H6PICKHH	37495	0.33	0.47	0.0	1.0
H7PICKHH	37495	0.36	0.48	0.0	1.0
H8PICKHH	37495	0.34	0.47	0.0	1.0
H9PICKHH	37495	0.32	0.47	0.0	1.0
H10PICKHH	37495	0.41	0.49	0.0	1.0
H11PICKHH	37495	0.38	0.49	0.0	1.0
H12PICKHH	37495	0.35	0.48	0.0	1.0

## Categorical Variable Codes

Value	R1FAMR	R2FAMR	R3FAMR	R4FAMR	R5FAMR	R6FAMR	R7FAMR
0.No	5105	6719	6026	7181	6472	5819	6615
1.Yes	7547	12923	11965	14203	13107	12346	13514

Value	R8FAMR	R9FAMR	R10FAMR	R11FAMR	R12FAMR
0.No	5956	5404	7057	6407	5674
1.Yes	12513	11813	14977	14147	13073

Value	S1FAMR	S2FAMR	S3FAMR	S4FAMR	S5FAMR	S6FAMR	S7FAMR
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	4950	6556	5955	7007	6365	5816	6484
1.Yes	4950	6532	5960	6971	6365	5823	6488

Value	S8FAMR	S9FAMR	S10FAMR	S11FAMR	S12FAMR
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5866	5320	6754	6240	5508
1.Yes	5869	5326	6759	6248	5519

Value	R1FINR	R2FINR	R3FINR	R4FINR	R5FINR	R6FINR	R7FINR
0.No	5045	6694	6036	7127	6462	5846	6544
1.Yes	7607	12948	11955	14257	13117	12319	13585

Value	R8FINR	R9FINR	R10FINR	R11FINR	R12FINR
0.No	5911	5375	6904	6363	5649
1.Yes	12558	11842	15130	14191	13098

Value	S1FINR	S2FINR	S3FINR	S4FINR	S5FINR	S6FINR	S7FINR
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	4950	6555	5957	6992	6365	5816	6484
1.Yes	4950	6533	5958	6986	6365	5823	6488

Value	S8FINR	S9FINR	S10FINR	S11FINR	S12FINR
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5866	5320	6754	6239	5508
1.Yes	5869	5326	6759	6249	5519

Value	H1ANYFAM	H2ANYFAM	H3ANYFAM	H4ANYFAM	H5ANYFAM	H6ANYFAM	H7ANYFAM
0.No	155	208	72	210	107	3	131
1.Yes	12497	19434	17919	21174	19472	18162	19998

Value	H8ANYFAM	H9ANYFAM	H10ANYFAM	H11ANYFAM	H12ANYFAM
0.No	92	84	303	171	170
1.Yes	18377	17133	21731	20383	18577

Value	H1ANYFIN	H2ANYFIN	H3ANYFIN	H4ANYFIN	H5ANYFIN	H6ANYFIN	H7ANYFIN
0.No	95	161	83	141	97	30	60
1.Yes	12557	19481	17908	21243	19482	18135	20069

Value	H8ANYFIN	H9ANYFIN	H10ANYFIN	H11ANYFIN	H12ANYFIN
0.No	47	55	150	126	145
1.Yes	18422	17162	21884	20428	18602

Value	H1PICKHH	H2PICKHH	H3PICKHH	H4PICKHH	H5PICKHH	H6PICKHH	H7PICKHH
0.Drop for HH-level file	29793	24397	25459	23100	24281	25146	23850
1.Select for HH-level file	7702	13098	12036	14395	13214	12349	13645

Value	H8PICKHH	H9PICKHH	H10PICKHH	H11PICKHH	H12PICKHH
0.Drop for HH-level file	24890	25598	22215	23179	24254
1.Select for HH-level file	12605	11897	15280	14316	13241

## How Constructed

In couple households, household level questions about finances are answered by one individual designated the "Financial Respondent," and questions about family are answered by the individual designated the "Family Respondent." The Financial Respondent may be the same as the Family Respondent, or not, depending on the household. In single households, the only Respondent is both the Financial and Family Respondent.

RwFINR and RwFAMR indicate whether the Respondent is the designated Financial and Family Respondent, respectively. These flags are set to "1" if the designated Respondent, or "0" if not.

HwANYFIN indicates if any individual in the household is the Financial Respondent, and HwANYFAM indicates the same for the Family Respondent. A value of "0" in HwANYFIN or HwANYFAM indicates that there is no Financial or Family Respondent, respectively, and thus no household level information on the relevant topics. HwANYFIN and HwANYFAM are set to .S for the deceased Respondents in Wave 2 in previous versions of RANDHRS. We exclude the W2 deceased Respondents in this version.

SwFINR and SwFAMR are taken from the Wave "w" spouse's value for RwFINR and RwFAMR, respectively.

HwPICKHH can be used to extract a household level file (i.e., one for each sub-household in the core data) by selecting records where HwPICKHH=1. This will select all individuals in single-Respondent households and just the Financial Respondent in couple households. For some households there is no Financial Respondent. HwPICKHH selects a Respondent for every household that participated in a given wave, regardless of whether a Financial Respondent is present. For couple households where there is no Financial Respondent, HRS sometimes assigns this role based on the variable xPN\_FIN (FINANCIAL RESP PERSON NUMBER). We set HwPICKHH=1 for that Respondent. Otherwise, we set HwPICKHH=1 for the Respondent in the household who is not the Family Respondent. If no Family Respondent is

assigned, we set HwPICKHH=1 for the Respondent with the lowest PN. Please note that for some analyses, selecting a different record in couple households may be more appropriate. The analyst will need to determine this based on her/his research goals.

As stated in the "Household Identifier" section, there are a few households in Wave 3H that appear to be reunited based on answers to questions in the CoverSheet section. They are reunited in Wave 4 in the public use HRS core data, but have different sub-household IDs in Wave 3. We reunite them in Wave 3 in the RAND HRS Longitudinal File. These households are: 17520 (PNs 010 and 040), 22999 (PNs 010 and 020), 40609 (PNs 010 and 020), 40441 (PNs 010 and 020), 50945 (PNs 010 and 040). These cases will have different sub-household IDs in H3HHID from the ESUBHH found in the Tracker and core 1996 files. The spouse PNs will also differ. For households 22999, 40441, and 50945, H3PICKHH will select both members from each household, since each member of the couple is flagged as the Financial Respondent. We did not select just one member from each household to go through the imputation process, but processed their responses as is. Therefore, they may each give different responses about their income and assets.

## HRS Variables Used

### Tracker:

AFAMR	1992	WHETHER FAMILY RESPONDENT
AFINR	1992	WHETHER FINANCIAL RESPONDENT
ASUBHH	1992	SUB-HOUSEHOLD IDENTIFIER
BFAMR	1993	WHETHER FAMILY RESPONDENT
BFINR	1993	WHETHER FINANCIAL RESPONDENT
BSUBHH	1993	SUB-HOUSEHOLD IDENTIFIER
CFAMR	1994	WHETHER FAMILY RESPONDENT
CFINR	1994	WHETHER FINANCIAL RESPONDENT
CSUBHH	1994	SUB-HOUSEHOLD IDENTIFIER
DFAMR	1995	WHETHER FAMILY RESPONDENT
DFINR	1995	WHETHER FINANCIAL RESPONDENT
DSUBHH	1995	SUB-HOUSEHOLD IDENTIFIER
EFAMR	1996	WHETHER FAMILY RESPONDENT
EFINR	1996	WHETHER FINANCIAL RESPONDENT
ESUBHH	1996	SUB-HOUSEHOLD IDENTIFIER
FFAMR	1998	WHETHER FAMILY RESPONDENT
FFINR	1998	WHETHER FINANCIAL RESPONDENT
FSUBHH	1998	SUB-HOUSEHOLD IDENTIFIER
GFAMR	2000	WHETHER FAMILY RESPONDENT
GFINR	2000	WHETHER FINANCIAL RESPONDENT
GSUBHH	2000	SUB-HOUSEHOLD IDENTIFIER
HFAMR	2002	WHETHER FAMILY RESPONDENT
HFINR	2002	WHETHER FINANCIAL RESPONDENT
HHID		HOUSEHOLD IDENTIFIER
HSUBHH	2002	SUB-HOUSEHOLD IDENTIFIER
JFAMR	2004	WHETHER FAMILY RESPONDENT
JFINR	2004	WHETHER FINANCIAL RESPONDENT
JSUBHH	2004	SUB-HOUSEHOLD IDENTIFIER
KFAMR	2006	WHETHER FAMILY RESPONDENT
KFINR	2006	WHETHER FINANCIAL RESPONDENT
KSUBHH	2006	SUB-HOUSEHOLD IDENTIFIER
LFAMR	2008	WHETHER FAMILY RESPONDENT
LFINR	2008	WHETHER FINANCIAL RESPONDENT
LSUBHH	2008	SUB-HOUSEHOLD IDENTIFIER
MFAMR	2010	WHETHER FAMILY RESPONDENT
MFINR	2010	WHETHER FINANCIAL RESPONDENT
MSUBHH	2010	SUB-HOUSEHOLD IDENTIFIER
NFAMR	2012	WHETHER FAMILY RESPONDENT
NFINR	2012	WHETHER FINANCIAL RESPONDENT

NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
OFAMR	2014 WHETHER FAMILY RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OVHHID	OVERLAP CASE: OLD HHID
OVPN	OVERLAP CASE: OLD PN
PN	PERSON NUMBER

### Whether Proxy Interview

Wave	Variable Name	Variable Label	Type
1	R1PROXY	R1PROXY:W1 Whether Proxy Interview	Categ
2	R2PROXY	R2PROXY:W2 Whether Proxy Interview	Categ
3	R3PROXY	R3PROXY:W3 Whether Proxy Interview	Categ
4	R4PROXY	R4PROXY:W4 Whether Proxy Interview	Categ
5	R5PROXY	R5PROXY:W5 Whether Proxy Interview	Categ
6	R6PROXY	R6PROXY:W6 Whether Proxy Interview	Categ
7	R7PROXY	R7PROXY:W7 Whether Proxy Interview	Categ
8	R8PROXY	R8PROXY:W8 Whether Proxy Interview	Categ
9	R9PROXY	R9PROXY:W9 Whether Proxy Interview	Categ
10	R10PROXY	R10PROXY:W10 Whether Proxy Interview	Categ
11	R11PROXY	R11PROXY:W11 Whether Proxy Interview	Categ
12	R12PROXY	R12PROXY:W12 Whether Proxy Interview	Categ
1	S1PROXY	S1PROXY:W1 Whether Proxy Interview	Categ
2	S2PROXY	S2PROXY:W2 Whether Proxy Interview	Categ
3	S3PROXY	S3PROXY:W3 Whether Proxy Interview	Categ
4	S4PROXY	S4PROXY:W4 Whether Proxy Interview	Categ
5	S5PROXY	S5PROXY:W5 Whether Proxy Interview	Categ
6	S6PROXY	S6PROXY:W6 Whether Proxy Interview	Categ
7	S7PROXY	S7PROXY:W7 Whether Proxy Interview	Categ
8	S8PROXY	S8PROXY:W8 Whether Proxy Interview	Categ
9	S9PROXY	S9PROXY:W9 Whether Proxy Interview	Categ
10	S10PROXY	S10PROXY:W10 Whether Proxy Interview	Categ
11	S11PROXY	S11PROXY:W11 Whether Proxy Interview	Categ
12	S12PROXY	S12PROXY:W12 Whether Proxy Interview	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1PROXY	12652	0.05	0.22	0.0	1.0
R2PROXY	19642	0.08	0.27	0.0	1.0
R3PROXY	17991	0.09	0.29	0.0	1.0
R4PROXY	21384	0.10	0.29	0.0	1.0
R5PROXY	19579	0.11	0.31	0.0	1.0
R6PROXY	18165	0.11	0.32	0.0	1.0
R7PROXY	20129	0.09	0.29	0.0	1.0
R8PROXY	18469	0.07	0.25	0.0	1.0
R9PROXY	17217	0.07	0.25	0.0	1.0
R10PROXY	22034	0.06	0.24	0.0	1.0
R11PROXY	20554	0.06	0.23	0.0	1.0
R12PROXY	18747	0.06	0.23	0.0	1.0
S1PROXY	9900	0.06	0.24	0.0	1.0
S2PROXY	13088	0.09	0.28	0.0	1.0
S3PROXY	11915	0.09	0.29	0.0	1.0
S4PROXY	13978	0.10	0.30	0.0	1.0
S5PROXY	12730	0.11	0.31	0.0	1.0
S6PROXY	11639	0.12	0.32	0.0	1.0
S7PROXY	12972	0.09	0.29	0.0	1.0
S8PROXY	11735	0.07	0.25	0.0	1.0
S9PROXY	10646	0.06	0.24	0.0	1.0
S10PROXY	13513	0.06	0.24	0.0	1.0
S11PROXY	12488	0.05	0.22	0.0	1.0
S12PROXY	11027	0.05	0.22	0.0	1.0



## Categorical Variable Codes

Value	R1PROXY	R2PROXY	R3PROXY	R4PROXY	R5PROXY	R6PROXY	R7PROXY
0.Not proxy	12004	18073	16351	19341	17517	16129	18327
1.Proxy	648	1569	1640	2043	2062	2036	1802

Value	R8PROXY	R9PROXY	R10PROXY	R11PROXY	R12PROXY
0.Not proxy	17209	16077	20652	19408	17698
1.Proxy	1260	1140	1382	1146	1049

Value	S1PROXY	S2PROXY	S3PROXY	S4PROXY	S5PROXY	S6PROXY	S7PROXY
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Not proxy	9284	11936	10804	12571	11320	10280	11769
1.Proxy	616	1152	1111	1407	1410	1359	1203

Value	S8PROXY	S9PROXY	S10PROXY	S11PROXY	S12PROXY
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not proxy	10943	9989	12696	11839	10438
1.Proxy	792	657	817	649	589

## How Constructed

RwPROXY is set to "1" if the interview is by proxy in wave "w." It is set to "0" if the Respondent is not a proxy. Proxy status is taken directly from the Tracker file.

The spouse's proxy flag is taken from the Wave "w" spouse's variable, i.e., from the Wave "w" spouse's RwPROXY.

## HRS Variables Used

Tracker:

APROXY	1992	PROXY	TYPE	STATUS
BPROXY	1993	PROXY	TYPE	STATUS
CPROXY	1994	PROXY	TYPE	STATUS
DPROXY	1995	PROXY	TYPE	STATUS
EPROXY	1996	PROXY	TYPE	STATUS
FPROXY	1998	PROXY	TYPE	STATUS
GPROXY	2000	PROXY	TYPE	STATUS
HPROXY	2002	PROXY	TYPE	STATUS
JPROXY	2004	PROXY	TYPE	STATUS
KPROXY	2006	PROXY	TYPE	STATUS
LPROXY	2008	PROXY	TYPE	STATUS
MPROXY	2010	PROXY	TYPE	STATUS
NPROXY	2012	PROXY	TYPE	STATUS
OPROXY	2014	PROXY	TYPE	STATUS

<b>Interview Dates</b>
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Wave	Variable Name	Variable Label	Type
1	R1IWBEG	R1IWBEG:W1 Interview Begin Date	Cont
2	R2IWBEG	R2IWBEG:W2 Interview Begin Date	Cont
3	R3IWBEG	R3IWBEG:W3 Interview Begin Date	Cont
4	R4IWBEG	R4IWBEG:W4 Interview Begin Date	Cont
5	R5IWBEG	R5IWBEG:W5 Interview Begin Date	Cont
6	R6IWBEG	R6IWBEG:W6 Interview Begin Date	Cont
7	R7IWBEG	R7IWBEG:W7 Interview Begin Date	Cont
8	R8IWBEG	R8IWBEG:W8 Interview Begin Date	Cont
9	R9IWBEG	R9IWBEG:W9 Interview Begin Date	Cont
10	R10IWBEG	R10IWBEG:W10 Interview Begin Date	Cont
11	R11IWBEG	R11IWBEG:W11 Interview Begin Date	Cont
12	R12IWBEG	R12IWBEG:W12 Interview Begin Date	Cont
1	S1IWBEG	S1IWBEG:W1 Interview Begin Date	Cont
2	S2IWBEG	S2IWBEG:W2 Interview Begin Date	Cont
3	S3IWBEG	S3IWBEG:W3 Interview Begin Date	Cont
4	S4IWBEG	S4IWBEG:W4 Interview Begin Date	Cont
5	S5IWBEG	S5IWBEG:W5 Interview Begin Date	Cont
6	S6IWBEG	S6IWBEG:W6 Interview Begin Date	Cont
7	S7IWBEG	S7IWBEG:W7 Interview Begin Date	Cont
8	S8IWBEG	S8IWBEG:W8 Interview Begin Date	Cont
9	S9IWBEG	S9IWBEG:W9 Interview Begin Date	Cont
10	S10IWBEG	S10IWBEG:W10 Interview Begin Date	Cont
11	S11IWBEG	S11IWBEG:W11 Interview Begin Date	Cont
12	S12IWBEG	S12IWBEG:W12 Interview Begin Date	Cont
1	R1IWBEGF	R1IWBEGF:W1 Interview Beg Date Flag	Categ
2	R2IWBEGF	R2IWBEGF:W2 Interview Beg Date Flag	Categ
1	S1IWBEGF	S1IWBEGF:W1 Interview Beg Date Flag	Categ
2	S2IWBEGF	S2IWBEGF:W2 Interview Beg Date Flag	Categ
1	R1IWEND	R1IWEND:W1 Interview End Date	Cont
2	R2IWEND	R2IWEND:W2 Interview End Date	Cont
3	R3IWEND	R3IWEND:W3 Interview End Date	Cont
4	R4IWEND	R4IWEND:W4 Interview End Date	Cont
5	R5IWEND	R5IWEND:W5 Interview End Date	Cont
6	R6IWEND	R6IWEND:W6 Interview End Date	Cont
7	R7IWEND	R7IWEND:W7 Interview End Date	Cont
8	R8IWEND	R8IWEND:W8 Interview End Date	Cont
9	R9IWEND	R9IWEND:W9 Interview End Date	Cont
10	R10IWEND	R10IWEND:W10 Interview End Date	Cont
11	R11IWEND	R11IWEND:W11 Interview End Date	Cont
12	R12IWEND	R12IWEND:W12 Interview End Date	Cont
1	S1IWEND	S1IWEND:W1 Interview End Date	Cont
2	S2IWEND	S2IWEND:W2 Interview End Date	Cont
3	S3IWEND	S3IWEND:W3 Interview End Date	Cont
4	S4IWEND	S4IWEND:W4 Interview End Date	Cont
5	S5IWEND	S5IWEND:W5 Interview End Date	Cont
6	S6IWEND	S6IWEND:W6 Interview End Date	Cont
7	S7IWEND	S7IWEND:W7 Interview End Date	Cont
8	S8IWEND	S8IWEND:W8 Interview End Date	Cont
9	S9IWEND	S9IWEND:W9 Interview End Date	Cont
10	S10IWEND	S10IWEND:W10 Interview End Date	Cont
11	S11IWEND	S11IWEND:W11 Interview End Date	Cont
12	S12IWEND	S12IWEND:W12 Interview End Date	Cont
1	R1IWENDF	R1IWENDF:W1 Interview End Date Flag	Categ
2	R2IWENDF	R2IWENDF:W2 Interview End Date Flag	Categ
3	R3IWENDF	R3IWENDF:W3 Interview End Date Flag	Categ
1	S1IWENDF	S1IWENDF:W1 Interview End Date Flag	Categ
2	S2IWENDF	S2IWENDF:W2 Interview End Date Flag	Categ
3	S3IWENDF	S3IWENDF:W3 Interview End Date Flag	Categ

1	R1IWMID	R1IWMID:W1 Interview Midpoint Date	Cont
2	R2IWMID	R2IWMID:W2 Interview Midpoint Date	Cont
3	R3IWMID	R3IWMID:W3 Interview Midpoint Date	Cont
4	R4IWMID	R4IWMID:W4 Interview Midpoint Date	Cont
5	R5IWMID	R5IWMID:W5 Interview Midpoint Date	Cont
6	R6IWMID	R6IWMID:W6 Interview Midpoint Date	Cont
7	R7IWMID	R7IWMID:W7 Interview Midpoint Date	Cont
8	R8IWMID	R8IWMID:W8 Interview Midpoint Date	Cont
9	R9IWMID	R9IWMID:W9 Interview Midpoint Date	Cont
10	R10IWMID	R10IWMID:W10 Interview Midpoint Date	Cont
11	R11IWMID	R11IWMID:W11 Interview Midpoint Date	Cont
12	R12IWMID	R12IWMID:W12 Interview Midpoint Date	Cont
1	S1IWMID	S1IWMID:W1 Interview Midpoint Date	Cont
2	S2IWMID	S2IWMID:W2 Interview Midpoint Date	Cont
3	S3IWMID	S3IWMID:W3 Interview Midpoint Date	Cont
4	S4IWMID	S4IWMID:W4 Interview Midpoint Date	Cont
5	S5IWMID	S5IWMID:W5 Interview Midpoint Date	Cont
6	S6IWMID	S6IWMID:W6 Interview Midpoint Date	Cont
7	S7IWMID	S7IWMID:W7 Interview Midpoint Date	Cont
8	S8IWMID	S8IWMID:W8 Interview Midpoint Date	Cont
9	S9IWMID	S9IWMID:W9 Interview Midpoint Date	Cont
10	S10IWMID	S10IWMID:W10 Interview Midpoint Date	Cont
11	S11IWMID	S11IWMID:W11 Interview Midpoint Date	Cont
12	S12IWMID	S12IWMID:W12 Interview Midpoint Date	Cont
1	R1IWMIDF	R1IWMIDF:W1 Interview Midpt Date Flag	Categ
2	R2IWMIDF	R2IWMIDF:W2 Interview Midpt Date Flag	Categ
3	R3IWMIDF	R3IWMIDF:W3 Interview Midpt Date Flag	Categ
4	R4IWMIDF	R4IWMIDF:W4 Interview Midpt Date Flag	Categ
5	R5IWMIDF	R5IWMIDF:W5 Interview Midpt Date Flag	Categ
6	R6IWMIDF	R6IWMIDF:W6 Interview Midpt Date Flag	Categ
7	R7IWMIDF	R7IWMIDF:W7 Interview Midpt Date Flag	Categ
8	R8IWMIDF	R8IWMIDF:W8 Interview Midpt Date Flag	Categ
9	R9IWMIDF	R9IWMIDF:W9 Interview Midpt Date Flag	Categ
10	R10IWMIDF	R10IWMIDF:W10 Interview Midpt Date Flag	Categ
11	R11IWMIDF	R11IWMIDF:W11 Interview Midpt Date Flag	Categ
12	R12IWMIDF	R12IWMIDF:W12 Interview Midpt Date Flag	Categ
1	S1IWMIDF	S1IWMIDF:W1 Interview Midpt Date Flag	Categ
2	S2IWMIDF	S2IWMIDF:W2 Interview Midpt Date Flag	Categ
3	S3IWMIDF	S3IWMIDF:W3 Interview Midpt Date Flag	Categ
4	S4IWMIDF	S4IWMIDF:W4 Interview Midpt Date Flag	Categ
5	S5IWMIDF	S5IWMIDF:W5 Interview Midpt Date Flag	Categ
6	S6IWMIDF	S6IWMIDF:W6 Interview Midpt Date Flag	Categ
7	S7IWMIDF	S7IWMIDF:W7 Interview Midpt Date Flag	Categ
8	S8IWMIDF	S8IWMIDF:W8 Interview Midpt Date Flag	Categ
9	S9IWMIDF	S9IWMIDF:W9 Interview Midpt Date Flag	Categ
10	S10IWMIDF	S10IWMIDF:W10 Interview Midpt Date Flag	Categ
11	S11IWMIDF	S11IWMIDF:W11 Interview Midpt Date Flag	Categ
12	S12IWMIDF	S12IWMIDF:W12 Interview Midpt Date Flag	Categ
1	R1IWENDM	R1IWENDM:W1 Interview End Month	Cont
2	R2IWENDM	R2IWENDM:W2 Interview End Month	Cont
3	R3IWENDM	R3IWENDM:W3 Interview End Month	Cont
4	R4IWENDM	R4IWENDM:W4 Interview End Month	Cont
5	R5IWENDM	R5IWENDM:W5 Interview End Month	Cont
6	R6IWENDM	R6IWENDM:W6 Interview End Month	Cont
7	R7IWENDM	R7IWENDM:W7 Interview End Month	Cont
8	R8IWENDM	R8IWENDM:W8 Interview End Month	Cont
9	R9IWENDM	R9IWENDM:W9 Interview End Month	Cont
10	R10IWENDM	R10IWENDM:W10 Interview End Month	Cont
11	R11IWENDM	R11IWENDM:W11 Interview End Month	Cont
12	R12IWENDM	R12IWENDM:W12 Interview End Month	Cont
1	S1IWENDM	S1IWENDM:W1 Interview End Month	Cont
2	S2IWENDM	S2IWENDM:W2 Interview End Month	Cont
3	S3IWENDM	S3IWENDM:W3 Interview End Month	Cont
4	S4IWENDM	S4IWENDM:W4 Interview End Month	Cont
5	S5IWENDM	S5IWENDM:W5 Interview End Month	Cont
6	S6IWENDM	S6IWENDM:W6 Interview End Month	Cont
7	S7IWENDM	S7IWENDM:W7 Interview End Month	Cont

8	S8IWENDM	S8IWENDM:W8 Interview End Month	Cont
9	S9IWENDM	S9IWENDM:W9 Interview End Month	Cont
10	S10IWENDM	S10IWENDM:W10 Interview End Month	Cont
11	S11IWENDM	S11IWENDM:W11 Interview End Month	Cont
12	S12IWENDM	S12IWENDM:W12 Interview End Month	Cont
1	R1IWENDY	R1IWENDY:W1 Interview End Year	Cont
2	R2IWENDY	R2IWENDY:W2 Interview End Year	Cont
3	R3IWENDY	R3IWENDY:W3 Interview End Year	Cont
4	R4IWENDY	R4IWENDY:W4 Interview End Year	Cont
5	R5IWENDY	R5IWENDY:W5 Interview End Year	Cont
6	R6IWENDY	R6IWENDY:W6 Interview End Year	Cont
7	R7IWENDY	R7IWENDY:W7 Interview End Year	Cont
8	R8IWENDY	R8IWENDY:W8 Interview End Year	Cont
9	R9IWENDY	R9IWENDY:W9 Interview End Year	Cont
10	R10IWENDY	R10IWENDY:W10 Interview End Year	Cont
11	R11IWENDY	R11IWENDY:W11 Interview End Year	Cont
12	R12IWENDY	R12IWENDY:W12 Interview End Year	Cont
1	S1IWENDY	S1IWENDY:W1 Interview End Year	Cont
2	S2IWENDY	S2IWENDY:W2 Interview End Year	Cont
3	S3IWENDY	S3IWENDY:W3 Interview End Year	Cont
4	S4IWENDY	S4IWENDY:W4 Interview End Year	Cont
5	S5IWENDY	S5IWENDY:W5 Interview End Year	Cont
6	S6IWENDY	S6IWENDY:W6 Interview End Year	Cont
7	S7IWENDY	S7IWENDY:W7 Interview End Year	Cont
8	S8IWENDY	S8IWENDY:W8 Interview End Year	Cont
9	S9IWENDY	S9IWENDY:W9 Interview End Year	Cont
10	S10IWENDY	S10IWENDY:W10 Interview End Year	Cont
11	S11IWENDY	S11IWENDY:W11 Interview End Year	Cont
12	S12IWENDY	S12IWENDY:W12 Interview End Year	Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1IWBEG	12652	11939.30	83.24	11779.0	12125.0
R2IWBEG	19642	12539.36	105.60	12341.0	12773.0
R3IWBEG	17991	13276.31	109.72	13102.0	13560.0
R4IWBEG	21384	14037.10	88.32	13894.0	14318.0
R5IWBEG	19579	14746.61	63.93	14624.0	14959.0
R6IWBEG	18165	15535.41	66.71	15355.0	15751.0
R7IWBEG	20129	16249.03	76.10	16116.0	16482.0
R8IWBEG	18469	16978.96	78.90	16875.0	17212.0
R9IWBEG	17217	17698.54	77.42	17577.0	17943.0
R10IWBEG	22034	18565.60	138.00	18336.0	18915.0
R11IWBEG	20554	19217.39	81.95	19098.0	19463.0
R12IWBEG	18747	19896.14	84.85	19797.0	20193.0
S1IWBEG	9900	11939.94	83.15	11779.0	12125.0
S2IWBEG	13088	12556.11	100.53	12341.0	12773.0
S3IWBEG	11915	13291.68	104.78	13102.0	13560.0
S4IWBEG	13978	14041.24	87.52	13894.0	14318.0
S5IWBEG	12730	14745.67	62.81	14624.0	14959.0
S6IWBEG	11639	15533.46	65.52	15355.0	15751.0
S7IWBEG	12972	16250.66	75.81	16116.0	16482.0
S8IWBEG	11735	16982.50	78.62	16875.0	17212.0
S9IWBEG	10646	17698.18	76.99	17577.0	17943.0
S10IWBEG	13513	18563.76	140.26	18336.0	18915.0
S11IWBEG	12488	19219.47	81.82	19098.0	19463.0
S12IWBEG	11027	19898.02	84.84	19797.0	20193.0

R1IWBEGF	12652	0.00	0.01	0.0	1.0
R2IWBEGF	19642	0.00	0.00	0.0	0.0
S1IWBEGF	9900	0.00	0.01	0.0	1.0
S2IWBEGF	13088	0.00	0.00	0.0	0.0
R1IWEND	12652	11939.95	83.30	11779.0	12125.0
R2IWEND	19642	12540.27	106.56	12341.0	12857.0
R3IWEND	17991	13277.50	111.09	13102.0	13560.0
R4IWEND	21384	14038.90	89.00	13894.0	14318.0
R5IWEND	19579	14748.04	64.73	14624.0	14959.0
R6IWEND	18165	15536.50	67.51	15445.0	15779.0
R7IWEND	20129	16249.03	76.10	16116.0	16482.0
R8IWEND	18469	16979.95	79.43	16875.0	17212.0
R9IWEND	17217	17699.66	78.02	17577.0	17943.0
R10IWEND	22034	18567.43	138.22	18336.0	18946.0
R11IWEND	20554	19220.21	83.79	19098.0	19493.0
R12IWEND	18747	19897.99	85.89	19797.0	20193.0
S1IWEND	9900	11940.49	83.19	11779.0	12125.0
S2IWEND	13088	12556.79	101.15	12341.0	12857.0
S3IWEND	11915	13292.64	105.77	13102.0	13560.0
S4IWEND	13978	14042.64	87.95	13925.0	14318.0
S5IWEND	12730	14746.81	63.36	14624.0	14959.0
S6IWEND	11639	15534.28	66.13	15445.0	15751.0
S7IWEND	12972	16250.66	75.81	16116.0	16482.0
S8IWEND	11735	16983.11	78.93	16875.0	17212.0
S9IWEND	10646	17698.85	77.32	17577.0	17943.0
S10IWEND	13513	18565.19	140.45	18336.0	18946.0
S11IWEND	12488	19221.68	83.28	19098.0	19493.0
S12IWEND	11027	19899.31	85.50	19797.0	20193.0
R1IWENDF	12652	0.01	0.30	0.0	7.0
R2IWENDF	19642	2.93	3.45	0.0	7.0
R3IWENDF	17991	3.34	2.93	1.0	7.0
S1IWENDF	9900	0.01	0.23	0.0	7.0
S2IWENDF	13088	2.33	3.30	0.0	7.0
S3IWENDF	11915	2.82	2.76	1.0	7.0
R1IWMID	12652	11939.63	83.22	11779.0	12125.0
R2IWMID	19642	12539.81	105.98	12341.0	12774.0
R3IWMID	17991	13276.90	110.28	13102.0	13560.0
R4IWMID	21384	14038.00	88.45	13894.0	14318.0
R5IWMID	19579	14747.33	64.14	14624.0	14959.0
R6IWMID	18165	15535.96	66.90	15445.0	15751.0
R7IWMID	20129	16249.03	76.10	16116.0	16482.0
R8IWMID	18469	16979.45	79.02	16875.0	17212.0
R9IWMID	17217	17699.10	77.55	17577.0	17943.0
R10IWMID	22034	18566.52	137.95	18336.0	18930.5
R11IWMID	20554	19218.80	82.39	19098.0	19463.0
R12IWMID	18747	19897.07	85.10	19797.0	20193.0
S1IWMID	9900	11940.21	83.12	11779.0	12125.0
S2IWMID	13088	12556.45	100.78	12341.0	12774.0
S3IWMID	11915	13292.16	105.18	13102.0	13560.0
S4IWMID	13978	14041.94	87.60	13925.0	14318.0
S5IWMID	12730	14746.24	62.95	14624.0	14959.0
S6IWMID	11639	15533.87	65.66	15445.0	15751.0

S7IWMID	12972	16250.66	75.81	16116.0	16482.0
S8IWMID	11735	16982.81	78.71	16875.0	17212.0
S9IWMID	10646	17698.51	77.08	17577.0	17943.0
S10IWMID	13513	18564.47	140.24	18336.0	18930.5
S11IWMID	12488	19220.58	82.16	19098.0	19463.0
S12IWMID	11027	19898.66	84.99	19797.0	20193.0
R1IWMIDF	12652	0.06	0.29	0.0	2.0
R2IWMIDF	19642	0.05	0.28	0.0	2.0
R3IWMIDF	17991	0.04	0.29	0.0	2.0
R4IWMIDF	21384	0.07	0.37	0.0	2.0
R5IWMIDF	19579	0.06	0.35	0.0	2.0
R6IWMIDF	18165	0.04	0.27	0.0	2.0
R7IWMIDF	20129	0.00	0.00	0.0	0.0
R8IWMIDF	18469	0.04	0.28	0.0	2.0
R9IWMIDF	17217	0.04	0.29	0.0	2.0
R10IWMIDF	22034	0.07	0.37	0.0	2.0
R11IWMIDF	20554	0.09	0.42	0.0	2.0
R12IWMIDF	18747	0.06	0.34	0.0	2.0
S1IWMIDF	9900	0.05	0.27	0.0	2.0
S2IWMIDF	13088	0.05	0.27	0.0	2.0
S3IWMIDF	11915	0.04	0.27	0.0	2.0
S4IWMIDF	13978	0.06	0.35	0.0	2.0
S5IWMIDF	12730	0.06	0.33	0.0	2.0
S6IWMIDF	11639	0.03	0.23	0.0	2.0
S7IWMIDF	12972	0.00	0.00	0.0	0.0
S8IWMIDF	11735	0.03	0.24	0.0	2.0
S9IWMIDF	10646	0.03	0.25	0.0	2.0
S10IWMIDF	13513	0.06	0.34	0.0	2.0
S11IWMIDF	12488	0.07	0.38	0.0	2.0
S12IWMIDF	11027	0.04	0.29	0.0	2.0
R1IWENDM	12652	7.39	3.04	1.0	12.0
R2IWENDM	19642	6.83	3.23	1.0	12.0
R3IWENDM	17991	6.87	3.31	1.0	12.0
R4IWENDM	21384	5.38	2.56	1.0	12.0
R5IWENDM	19579	5.09	2.12	1.0	12.0
R6IWENDM	18165	6.75	2.16	1.0	12.0
R7IWENDM	20129	6.24	2.45	1.0	12.0
R8IWENDM	18469	6.15	2.50	1.0	12.0
R9IWENDM	17217	5.82	2.44	1.0	12.0
R10IWENDM	22034	6.91	3.52	1.0	12.0
R11IWENDM	20554	6.96	2.50	1.0	12.0
R12IWENDM	18747	5.73	2.38	1.0	12.0
S1IWENDM	9900	7.41	3.04	1.0	12.0
S2IWENDM	13088	6.83	2.96	1.0	12.0
S3IWENDM	11915	6.95	3.01	1.0	12.0
S4IWENDM	13978	5.48	2.51	1.0	12.0
S5IWENDM	12730	5.05	2.08	1.0	12.0
S6IWENDM	11639	6.72	2.11	1.0	12.0
S7IWENDM	12972	6.31	2.44	1.0	12.0
S8IWENDM	11735	6.24	2.49	1.0	12.0
S9IWENDM	10646	5.80	2.42	1.0	12.0
S10IWENDM	13513	6.85	3.48	1.0	12.0
S11IWENDM	12488	7.01	2.49	1.0	12.0
S12IWENDM	11027	5.76	2.36	1.0	12.0

R1IWENDY	12652	1992.12	0.32	1992.0	1993.0
R2IWENDY	19642	1993.81	0.39	1993.0	1995.0
R3IWENDY	17991	1995.82	0.43	1995.0	1997.0
R4IWENDY	21384	1998.03	0.18	1998.0	1999.0
R5IWENDY	19579	2000.00	0.00	2000.0	2000.0
R6IWENDY	18165	2002.02	0.14	2002.0	2003.0
R7IWENDY	20129	2004.01	0.11	2004.0	2005.0
R8IWENDY	18469	2006.02	0.15	2006.0	2007.0
R9IWENDY	17217	2008.02	0.14	2008.0	2009.0
R10IWENDY	22034	2010.31	0.46	2010.0	2011.0
R11IWENDY	20554	2012.09	0.28	2012.0	2013.0
R12IWENDY	18747	2014.05	0.21	2014.0	2015.0
S1IWENDY	9900	1992.12	0.32	1992.0	1993.0
S2IWENDY	13088	1993.85	0.35	1993.0	1995.0
S3IWENDY	11915	1995.86	0.40	1995.0	1997.0
S4IWENDY	13978	1998.04	0.19	1998.0	1999.0
S5IWENDY	12730	2000.00	0.00	2000.0	2000.0
S6IWENDY	11639	2002.02	0.13	2002.0	2003.0
S7IWENDY	12972	2004.01	0.11	2004.0	2005.0
S8IWENDY	11735	2006.02	0.15	2006.0	2007.0
S9IWENDY	10646	2008.02	0.14	2008.0	2009.0
S10IWENDY	13513	2010.30	0.46	2010.0	2011.0
S11IWENDY	12488	2012.09	0.28	2012.0	2013.0
S12IWENDY	11027	2014.05	0.22	2014.0	2015.0

## Categorical Variable Codes

Value	R1IWBEGF	R2IWBEGF
0.M/D/Y ok	12651	19642
1.Day miss	1	

Value	S1IWBEGF	S2IWBEGF
.U=Unmarried	2373	5970
.V=Spouse NR	379	584
0.M/D/Y ok	9899	13088
1.Day miss	1	

Value	R1IWENDF	R2IWENDF	R3IWENDF
0.M/D/Y ok	12621	11420	
1.Day miss	7		10964
3.Day/mon miss	1		
7.Day/mon/yr miss	23	8222	7027

Value	S1IWENDF	S2IWENDF	S3IWENDF
.U=Unmarried	2373	5970	5658
.V=Spouse NR	379	584	418
0.M/D/Y ok	9883	8739	
1.Day miss	6		8306
3.Day/mon miss	1		
7.Day/mon/yr miss	10	4349	3609

Value	R1IWMIDF	R2IWMIDF	R3IWMIDF	R4IWMIDF	R5IWMIDF	R6IWMIDF	R7IWMIDF
0.IVW beg dt=end dt	12033	18880	17613	20606	18956	17838	20129
1.IVW beg mon=end mon	452	477					
2.IVW begmon NE endmon	167	285	378	778	623	327	

Value	R8IWMIDF	R9IWMIDF	R10IWMIDF	R11IWMIDF	R12IWMIDF
0.IVW beg dt=end dt	18099	16850	21263	19592	18180
2.IVW begmon NE endmon	370	367	771	962	567

Value	S1IWMIDF	S2IWMIDF	S3IWMIDF	S4IWMIDF	S5IWMIDF	S6IWMIDF	S7IWMIDF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.IVW beg dt=end dt	9490	12603	11696	13532	12378	11478	12972
1.IVW beg mon=end mon	305	319					
2.IVW begmon NE endmon	105	166	219	446	352	161	

Value	S8IWMIDF	S9IWMIDF	S10IWMIDF	S11IWMIDF	S12IWMIDF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.IVW beg dt=end dt	11558	10474	13117	12020	10782
2.IVW begmon NE endmon	177	172	396	468	245

## How Constructed

These variables are derived from the beginning and ending interview dates. The RwiWBEG variables are the beginning interview dates and the RwiWEND variables are the ending interview dates. In some waves only one interview date is given, and it is used as both the beginning and ending date.

The RwiWMID variables are derived as the midpoint between the beginning and ending interview dates. From Wave 6 forward, and in Waves 2A and 3A of AHEAD, there is only one interview date given; this is used for the beginning,



ending, and midpoint interview date.

Note that most beginning and ending interview dates are the same. In the cases where they differ, the interview is usually suspended near the beginning of the survey questions and picked up days, weeks, or months later. According to ISR, the ending interview date is usually applicable to most of the interview, particularly in the later sections.

RwIWBEG, RwiWMID, and RwiWEND are in SAS date format, which is the number of days relative to January 1, 1960. RwiWENDM and RwiWENDY provide the end interview month and year, respectively, not in SAS date format.

The interview day is available only for Waves 1 and 2H, and for Wave 2A of AHEAD. RwiWBEGF, RwiWMIDF and RwiWENDF are flags that describe any anomalies found in the data. From Wave 3 forward, the 15th of the interview month was used. These variables are SAS dates (# days from 1/1/1960).

For 4 cases in HRS 1998, and for 1 case in HRS 1996, the interview year appears as 1980. For the 1998 cases, the median interview month and year for all other cases with the same version of the questionnaire is used. For the 1996 case, 6/1996 is used.

For Waves 1, 2, 3A, and 4, the Tracker variables were used instead of the corresponding raw variables for the beginning interview month and year.

For Waves 3H and 5, the Tracker variables were used instead of the corresponding raw variables for the ending interview month and year.

The spouse's variables are taken from the Wave "w" spouse's variables, i.e., from the Wave "w" spouse's RwiWBEG, RwiWBEGF, RwiWEND, RwiWENDF, RwiWMID, and RwiWMIDF.

### **Cross Wave Differences in Original HRS Data**

In Waves 1 and 2H, the month, day, and year that the interview began and ended are given. In Wave 2A of AHEAD, the month, day, and year that the interview began are given, but not the corresponding ending dates. This is also true for Wave 3A, the only difference being that the day the interview began is also not given. From Wave 3H forward, the day of interview is not available.

Also, in Waves 3H and 4, two interview months are given which are not labeled beginning or end. A comparison of the two months determined which were the beginning and ending interview dates. For 4 cases in HRS 98, and for one case in HRS 96, the interview year appears as 1980.

In Wave 5 two interview months are given, which are labeled beginning and current month.

For Waves 1, 2 and 4, the Tracker variables that correspond to the beginning interview month and year are available.

For Waves 3H and 5, the Tracker variables that correspond to the ending interview month and year are available.

From Wave 6 forward, only one interview date is available in the data, both in the cover sheet section and on Tracker. It is unclear whether the date is the beginning or ending interview date, but based on comparisons with the data model number in 2006 (JVDATE) we think it likely to be the end interview date; that is, the date on which most of the interview was conducted.

**HRS Variables Used**

HRS 1992:	
V24	FS6:DATE IW BEGAN-DAY
V26	FS7:DATE IW CMPLTD-MO
V27	FS7:DATE IW CMPLT-DAY
V28	FS7:DATE IW COMPLT-YR
AHEAD 1993:	
B360	INTERVIEW DAY
HRS 1994:	
W57	Begin of Interview - Day
W59	End of Interview - Month
W60	End of Interview - Day
W61	End of Interview - Year
AHEAD 1995:	
D397	TIME YEAR
D398	TIME MONTH
HRS 1996:	
E391	CUR MONTH 1-12
E393	CUR YEAR YYYY
E397	PERM TIME YEAR YYYY
E398	PERM TIME MONTH 1-12
HRS 1998:	
F697	CUR MONTH TEXT
F699	CUR YEAR YYYY
HRS 2000:	
G774	CS22Y49.TIME YEAR
G775	CS22Y50.TIME MONTH
HRS 2002:	
HA500	DATE OF INTERVIEW - MONTH
HA501	DATE OF INTERVIEW - YEAR
HRS 2004:	
JA500	DATE OF INTERVIEW - MONTH
JA501	DATE OF INTERVIEW - YEAR
HRS 2006:	
KA500	DATE OF INTERVIEW - MONTH
KA501	DATE OF INTERVIEW - YEAR
HRS 2008:	
LA500	DATE OF INTERVIEW - MONTH
LA501	DATE OF INTERVIEW - YEAR
HRS 2010:	
MA500	DATE OF INTERVIEW - MONTH
MA501	DATE OF INTERVIEW - YEAR
HRS 2012:	
NA500	DATE OF INTERVIEW - MONTH
NA501	DATE OF INTERVIEW - YEAR
HRS 2014:	
OA500	DATE OF INTERVIEW - MONTH
OA501	DATE OF INTERVIEW - YEAR
Tracker:	
AIWMONTH	1992 INTERVIEW MONTH
AIWYEAR	1992 INTERVIEW YEAR
BIWMONTH	1993 INTERVIEW MONTH
BIWYEAR	1993 INTERVIEW YEAR
CIWMONTH	1994 INTERVIEW MONTH
CIWYEAR	1994 INTERVIEW YEAR
DIWMONTH	1995 INTERVIEW MONTH
DIWYEAR	1995 INTERVIEW YEAR
EIWMONTH	1996 INTERVIEW MONTH
EIWYEAR	1996 INTERVIEW YEAR

FIWMONTH	1998	INTERVIEW	MONTH
FIWYEAR	1998	INTERVIEW	YEAR
GIWMONTH	2000	INTERVIEW	MONTH
GIWYEAR	2000	INTERVIEW	YEAR
HIWMONTH	2002	INTERVIEW	MONTH
HIWYEAR	2002	INTERVIEW	YEAR
JIWMONTH	2004	INTERVIEW	MONTH
JIWYEAR	2004	INTERVIEW	YEAR
KIWMONTH	2006	INTERVIEW	MONTH
KIWYEAR	2006	INTERVIEW	YEAR
LIWMONTH	2008	INTERVIEW	MONTH
LIWYEAR	2008	INTERVIEW	YEAR
MIWMONTH	2010	INTERVIEW	MONTH
MIWYEAR	2010	INTERVIEW	YEAR
NIWMONTH	2012	INTERVIEW	MONTH
NIWYEAR	2012	INTERVIEW	YEAR
OIWMONTH	2014	INTERVIEW	MONTH
OIWYEAR	2014	INTERVIEW	YEAR

<b>Birth date: Month, Year, and SAS date</b>
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Wave	Variable Name	Variable Label	Type
1	RABYEAR	RABYEAR: R birth year	Cont
1	S1BYEAR	S1BYEAR: S birth year	Cont
2	S2BYEAR	S2BYEAR: S birth year	Cont
3	S3BYEAR	S3BYEAR: S birth year	Cont
4	S4BYEAR	S4BYEAR: S birth year	Cont
5	S5BYEAR	S5BYEAR: S birth year	Cont
6	S6BYEAR	S6BYEAR: S birth year	Cont
7	S7BYEAR	S7BYEAR: S birth year	Cont
8	S8BYEAR	S8BYEAR: S birth year	Cont
9	S9BYEAR	S9BYEAR: S birth year	Cont
10	S10BYEAR	S10BYEAR: S birth year	Cont
11	S11BYEAR	S11BYEAR: S birth year	Cont
12	S12BYEAR	S12BYEAR: S birth year	Cont
1	RABMONTH	RABMONTH: R birth month	Cont
1	S1BMONTH	S1BMONTH: S birth month	Cont
2	S2BMONTH	S2BMONTH: S birth month	Cont
3	S3BMONTH	S3BMONTH: S birth month	Cont
4	S4BMONTH	S4BMONTH: S birth month	Cont
5	S5BMONTH	S5BMONTH: S birth month	Cont
6	S6BMONTH	S6BMONTH: S birth month	Cont
7	S7BMONTH	S7BMONTH: S birth month	Cont
8	S8BMONTH	S8BMONTH: S birth month	Cont
9	S9BMONTH	S9BMONTH: S birth month	Cont
10	S10BMONTH	S10BMONTH: S birth month	Cont
11	S11BMONTH	S11BMONTH: S birth month	Cont
12	S12BMONTH	S12BMONTH: S birth month	Cont
1	RABFLAG	RABFLAG: R flag birthdate missings	Categ
1	S1BFLAG	S1BFLAG: S flag birthdate missings	Categ
2	S2BFLAG	S2BFLAG: S flag birthdate missings	Categ
3	S3BFLAG	S3BFLAG: S flag birthdate missings	Categ
4	S4BFLAG	S4BFLAG: S flag birthdate missings	Categ
5	S5BFLAG	S5BFLAG: S flag birthdate missings	Categ
6	S6BFLAG	S6BFLAG: S flag birthdate missings	Categ
7	S7BFLAG	S7BFLAG: S flag birthdate missings	Categ
8	S8BFLAG	S8BFLAG: S flag birthdate missings	Categ
9	S9BFLAG	S9BFLAG: S flag birthdate missings	Categ
10	S10BFLAG	S10BFLAG: S flag birthdate missings	Categ
11	S11BFLAG	S11BFLAG: S flag birthdate missings	Categ
12	S12BFLAG	S12BFLAG: S flag birthdate missings	Categ
1	RABDATE	RABDATE: R birth date	Cont
1	S1BDATE	S1BDATE: S birth date	Cont
2	S2BDATE	S2BDATE: S birth date	Cont
3	S3BDATE	S3BDATE: S birth date	Cont
4	S4BDATE	S4BDATE: S birth date	Cont
5	S5BDATE	S5BDATE: S birth date	Cont
6	S6BDATE	S6BDATE: S birth date	Cont
7	S7BDATE	S7BDATE: S birth date	Cont
8	S8BDATE	S8BDATE: S birth date	Cont
9	S9BDATE	S9BDATE: S birth date	Cont
10	S10BDATE	S10BDATE: S birth date	Cont
11	S11BDATE	S11BDATE: S birth date	Cont
12	S12BDATE	S12BDATE: S birth date	Cont

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RABYEAR	37494	1937.40	15.09	1890.0	1995.0
S1BYEAR	10279	1936.57	6.13	1907.0	1969.0
S2BYEAR	13583	1930.77	10.51	1890.0	1971.0
S3BYEAR	12254	1931.56	10.13	1898.0	1974.0
S4BYEAR	14507	1933.94	10.17	1900.0	1973.0
S5BYEAR	13040	1934.72	9.79	1900.0	1976.0
S6BYEAR	11858	1935.58	9.41	1900.0	1980.0
S7BYEAR	13352	1939.25	10.51	1900.0	1976.0
S8BYEAR	12034	1939.82	10.16	1907.0	1983.0
S9BYEAR	11011	1940.53	9.95	1909.0	1986.0
S10BYEAR	14234	1946.17	11.18	1912.0	1992.0
S11BYEAR	13080	1946.77	10.82	1912.0	1992.0
S12BYEAR	11615	1947.68	10.49	1915.0	1995.0
RABMONTH	37494	6.55	3.43	1.0	12.0
S1BMONTH	10279	6.46	3.41	1.0	12.0
S2BMONTH	13583	6.46	3.41	1.0	12.0
S3BMONTH	12254	6.46	3.41	1.0	12.0
S4BMONTH	14507	6.52	3.42	1.0	12.0
S5BMONTH	13040	6.52	3.41	1.0	12.0
S6BMONTH	11858	6.52	3.40	1.0	12.0
S7BMONTH	13352	6.56	3.40	1.0	12.0
S8BMONTH	12034	6.56	3.40	1.0	12.0
S9BMONTH	11011	6.56	3.40	1.0	12.0
S10BMONTH	14234	6.60	3.41	1.0	12.0
S11BMONTH	13080	6.59	3.41	1.0	12.0
S12BMONTH	11615	6.58	3.41	1.0	12.0
RABFLAG	37495	0.00	0.04	0.0	3.0
S1BFLAG	10279	0.00	0.03	0.0	1.0
S2BFLAG	13608	0.01	0.13	0.0	3.0
S3BFLAG	12276	0.01	0.13	0.0	3.0
S4BFLAG	14511	0.01	0.09	0.0	3.0
S5BFLAG	13041	0.00	0.04	0.0	3.0
S6BFLAG	11858	0.00	0.06	0.0	1.0
S7BFLAG	13352	0.00	0.07	0.0	1.0
S8BFLAG	12051	0.00	0.07	0.0	1.0
S9BFLAG	11011	0.01	0.08	0.0	1.0
S10BFLAG	14234	0.01	0.09	0.0	1.0
S11BFLAG	13080	0.01	0.10	0.0	1.0
S12BFLAG	11616	0.01	0.10	0.0	3.0
RABDATE	37494	-8072.33	5513.26	-25371.0	12949.0
S1BDATE	10279	-8376.51	2240.18	-19313.0	3361.0
S2BDATE	13583	-10497.75	3837.48	-25371.0	4032.0
S3BDATE	12254	-10207.33	3699.66	-22599.0	5340.0
S4BDATE	14507	-9337.18	3715.26	-21900.0	4883.0
S5BDATE	13040	-9052.17	3575.97	-21900.0	6102.0
S6BDATE	11858	-8738.59	3435.62	-21900.0	7440.0
S7BDATE	13352	-7394.53	3841.75	-21900.0	6102.0
S8BDATE	12034	-7189.68	3714.39	-19313.0	8658.0
S9BDATE	11011	-6927.81	3634.97	-18309.0	9678.0

S10BDATE	14234	-4865.89	4085.13	-17213.0	11823.0
S11BDATE	13080	-4650.31	3953.64	-17213.0	11823.0
S12BDATE	11615	-4315.36	3831.33	-16363.0	12949.0

## Categorical Variable Codes

Value	RABFLAG
0.Mo/Yr OK	37441
1.Mo missing	53
3.Mo/Yr missing	1

Value	S1BFLAG	S2BFLAG	S3BFLAG	S4BFLAG	S5BFLAG	S6BFLAG	S7BFLAG
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	57	4		1	
0.Mo/Yr OK	10268	13570	12240	14433	13024	11810	13292
1.Mo missing	11	13	14	74	16	48	60
3.Mo/Yr missing		25	22	4	1		

Value	S8BFLAG	S9BFLAG	S10BFLAG	S11BFLAG	S12BFLAG
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	1		1		4
0.Mo/Yr OK	11991	10941	14125	12936	11497
1.Mo missing	60	70	109	144	118
3.Mo/Yr missing					1

## How Constructed

RABMONTH and RABYEAR are the Respondent's reported birth month and year, respectively. RABDATE is the SAS date format of the birth date. The SAS date format is the number of days since 1/1/1960. If a date is before 1960 the SAS date is a negative number; if after 1960 it is a positive number.

The Respondent birth date is derived by searching all waves of data and Tracker for a non-missing date. The first non-missing birth month is used beginning with the Tracker BIRTHMO and BIRTHYR, and then the core data from Wave 1 forward, consecutively.

To calculate RABDATE, a day must also be used. If the birth month is given, the 15th is used as the day. If the month is missing but year is given, the day is July 1st and RABMONTH is set to 7. If the year is missing, the birth date is missing. RABFLAG indicates if the birth month is missing.

Spouse birth date is taken from the Wave "w" spouse's self-reported birth date, i.e., from the spouse's RABMONTH, RABYEAR, and RABDATE. If the spouse never responded, then the birth month and year of spouse as reported by the Respondent in Wave "w" is used.

**HRS Variables Used**

HRS 1992:	
V42	R:BIRTHDATE:MONTH
V44	R:BIRTHDATE:YEAR
AHEAD 1993:	
B114	A1. BIRTH YEAR
HRS 1994:	
W212	A11. R:Birthdate:Month
W53	Year of Birth
AHEAD 1995:	
D636	A1. BIRTHDATE MONTH
D638	A1B. BIRTHDATE YEAR
HRS 1996:	
E636	A1.BIRTHDATE MONTH
E638	A1B.BIRTHDATE YEAR
HRS 1998:	
F488	CS2A.R BIRTHDATE
F685	R BIRTH YEAR
F968	A1.BIRTHDATE MONTH
F970	A1B.BIRTHDATE YEAR
HRS 2000:	
G1051	A1.BIRTHDATE MONTH
G1053	A1B.BIRTHDATE YEAR
G756	CS22Y33.R BIRTH YEAR TE
HRS 2002:	
HX004_R	R MONTH BORN-UPDATED
HX067_R	YEAR BORN-UPDATED
HRS 2004:	
JX004_R	R MONTH BORN-UPDATED
JX067_R	YEAR BORN-UPDATED - R
HRS 2006:	
KX004_R	R MONTH BORN-UPDATED
KX067_R	YEAR BORN-UPDATED - R
HRS 2008:	
LX004_R	R MONTH BORN-UPDATED
LX067_R	YEAR BORN-UPDATED - R
HRS 2010:	
MX004_R	R MONTH BORN-UPDATED
MX067_R	YEAR BORN-UPDATED
HRS 2012:	
NX004_R	R MONTH BORN-UPDATED
NX067_R	YEAR BORN-UPDATED
HRS 2014:	
OX004_R	R MONTH BORN-UPDATED
OX067_R	YEAR BORN-UPDATED
Tracker:	
BIRTHMO	BIRTHDATE: MONTH
BIRTHYR	BIRTHDATE: YEAR

<b>Death date: Month, Year, and SAS date</b>
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Wave	Variable Name	Variable Label	Type
1	RADYEAR	RADYEAR: R death year	Cont
1	S1DYEAR	S1DYEAR: S death year	Cont
2	S2DYEAR	S2DYEAR: S death year	Cont
3	S3DYEAR	S3DYEAR: S death year	Cont
4	S4DYEAR	S4DYEAR: S death year	Cont
5	S5DYEAR	S5DYEAR: S death year	Cont
6	S6DYEAR	S6DYEAR: S death year	Cont
7	S7DYEAR	S7DYEAR: S death year	Cont
8	S8DYEAR	S8DYEAR: S death year	Cont
9	S9DYEAR	S9DYEAR: S death year	Cont
10	S10DYEAR	S10DYEAR: S death year	Cont
11	S11DYEAR	S11DYEAR: S death year	Cont
12	S12DYEAR	S12DYEAR: S death year	Cont
1	RADMONTH	RADMONTH: R death month	Cont
1	S1DMONTH	S1DMONTH: S death month	Cont
2	S2DMONTH	S2DMONTH: S death month	Cont
3	S3DMONTH	S3DMONTH: S death month	Cont
4	S4DMONTH	S4DMONTH: S death month	Cont
5	S5DMONTH	S5DMONTH: S death month	Cont
6	S6DMONTH	S6DMONTH: S death month	Cont
7	S7DMONTH	S7DMONTH: S death month	Cont
8	S8DMONTH	S8DMONTH: S death month	Cont
9	S9DMONTH	S9DMONTH: S death month	Cont
10	S10DMONTH	S10DMONTH: S death month	Cont
11	S11DMONTH	S11DMONTH: S death month	Cont
12	S12DMONTH	S12DMONTH: S death month	Cont
1	RADDATE	RADDATE: R death date	Cont
1	S1DDATE	S1DDATE: S death date	Cont
2	S2DDATE	S2DDATE: S death date	Cont
3	S3DDATE	S3DDATE: S death date	Cont
4	S4DDATE	S4DDATE: S death date	Cont
5	S5DDATE	S5DDATE: S death date	Cont
6	S6DDATE	S6DDATE: S death date	Cont
7	S7DDATE	S7DDATE: S death date	Cont
8	S8DDATE	S8DDATE: S death date	Cont
9	S9DDATE	S9DDATE: S death date	Cont
10	S10DDATE	S10DDATE: S death date	Cont
11	S11DDATE	S11DDATE: S death date	Cont
12	S12DDATE	S12DDATE: S death date	Cont
1	RANYEAR	RANYEAR: R NDI death year	Cont
1	S1NYEAR	S1NYEAR: S NDI death year	Cont
2	S2NYEAR	S2NYEAR: S NDI death year	Cont
3	S3NYEAR	S3NYEAR: S NDI death year	Cont
4	S4NYEAR	S4NYEAR: S NDI death year	Cont
5	S5NYEAR	S5NYEAR: S NDI death year	Cont
6	S6NYEAR	S6NYEAR: S NDI death year	Cont
7	S7NYEAR	S7NYEAR: S NDI death year	Cont
8	S8NYEAR	S8NYEAR: S NDI death year	Cont
9	S9NYEAR	S9NYEAR: S NDI death year	Cont
10	S10NYEAR	S10NYEAR: S NDI death year	Cont
11	S11NYEAR	S11NYEAR: S NDI death year	Cont
12	S12NYEAR	S12NYEAR: S NDI death year	Cont
1	RANMONTH	RANMONTH: R NDI death month	Cont
1	S1NMONTH	S1NMONTH: S NDI death month	Cont
2	S2NMONTH	S2NMONTH: S NDI death month	Cont
3	S3NMONTH	S3NMONTH: S NDI death month	Cont
4	S4NMONTH	S4NMONTH: S NDI death month	Cont



5	S5NMONTH	S5NMONTH: S NDI death month	Cont
6	S6NMONTH	S6NMONTH: S NDI death month	Cont
7	S7NMONTH	S7NMONTH: S NDI death month	Cont
8	S8NMONTH	S8NMONTH: S NDI death month	Cont
9	S9NMONTH	S9NMONTH: S NDI death month	Cont
10	S10NMONTH	S10NMONTH: S NDI death month	Cont
11	S11NMONTH	S11NMONTH: S NDI death month	Cont
12	S12NMONTH	S12NMONTH: S NDI death month	Cont
1	RANDATE	RANDATE: R NDI death date	Cont
1	S1NDATE	S1NDATE: S NDI death date	Cont
2	S2NDATE	S2NDATE: S NDI death date	Cont
3	S3NDATE	S3NDATE: S NDI death date	Cont
4	S4NDATE	S4NDATE: S NDI death date	Cont
5	S5NDATE	S5NDATE: S NDI death date	Cont
6	S6NDATE	S6NDATE: S NDI death date	Cont
7	S7NDATE	S7NDATE: S NDI death date	Cont
8	S8NDATE	S8NDATE: S NDI death date	Cont
9	S9NDATE	S9NDATE: S NDI death date	Cont
10	S10NDATE	S10NDATE: S NDI death date	Cont
11	S11NDATE	S11NDATE: S NDI death date	Cont
12	S12NDATE	S12NDATE: S NDI death date	Cont
1	RAIYEAR	RAIYEAR: R Exit Interview death year	Cont
1	S1IYEAR	S1IYEAR: S Exit Interview death year	Cont
2	S2IYEAR	S2IYEAR: S Exit Interview death year	Cont
3	S3IYEAR	S3IYEAR: S Exit Interview death year	Cont
4	S4IYEAR	S4IYEAR: S Exit Interview death year	Cont
5	S5IYEAR	S5IYEAR: S Exit Interview death year	Cont
6	S6IYEAR	S6IYEAR: S Exit Interview death year	Cont
7	S7IYEAR	S7IYEAR: S Exit Interview death year	Cont
8	S8IYEAR	S8IYEAR: S Exit Interview death year	Cont
9	S9IYEAR	S9IYEAR: S Exit Interview death year	Cont
10	S10IYEAR	S10IYEAR: S Exit Interview death year	Cont
11	S11IYEAR	S11IYEAR: S Exit Interview death year	Cont
12	S12IYEAR	S12IYEAR: S Exit Interview death year	Cont
1	RAIMONTH	RAIMONTH: R Exit Interview death month	Cont
1	S1IMONTH	S1IMONTH: S Exit Interview death month	Cont
2	S2IMONTH	S2IMONTH: S Exit Interview death month	Cont
3	S3IMONTH	S3IMONTH: S Exit Interview death month	Cont
4	S4IMONTH	S4IMONTH: S Exit Interview death month	Cont
5	S5IMONTH	S5IMONTH: S Exit Interview death month	Cont
6	S6IMONTH	S6IMONTH: S Exit Interview death month	Cont
7	S7IMONTH	S7IMONTH: S Exit Interview death month	Cont
8	S8IMONTH	S8IMONTH: S Exit Interview death month	Cont
9	S9IMONTH	S9IMONTH: S Exit Interview death month	Cont
10	S10IMONTH	S10IMONTH: S Exit Interview death month	Cont
11	S11IMONTH	S11IMONTH: S Exit Interview death month	Cont
12	S12IMONTH	S12IMONTH: S Exit Interview death month	Cont
1	RAIDATE	RAIDATE: R Exit Interview death date	Cont
1	S1IDATE	S1IDATE: S Exit Interview death date	Cont
2	S2IDATE	S2IDATE: S Exit Interview death date	Cont
3	S3IDATE	S3IDATE: S Exit Interview death date	Cont
4	S4IDATE	S4IDATE: S Exit Interview death date	Cont
5	S5IDATE	S5IDATE: S Exit Interview death date	Cont
6	S6IDATE	S6IDATE: S Exit Interview death date	Cont
7	S7IDATE	S7IDATE: S Exit Interview death date	Cont
8	S8IDATE	S8IDATE: S Exit Interview death date	Cont
9	S9IDATE	S9IDATE: S Exit Interview death date	Cont
10	S10IDATE	S10IDATE: S Exit Interview death date	Cont
11	S11IDATE	S11IDATE: S Exit Interview death date	Cont
12	S12IDATE	S12IDATE: S Exit Interview death date	Cont
1	RANDATEF	RANDATEF: R NDI flag death date and interview discrepancy	Categ
1	S1NDATEF	S1NDATEF: S NDI flag death date and interview discrepancy	Categ

2	S2NDATEF	S2NDATEF: S NDI flag death date and interview discrepancy	Categ
3	S3NDATEF	S3NDATEF: S NDI flag death date and interview discrepancy	Categ
4	S4NDATEF	S4NDATEF: S NDI flag death date and interview discrepancy	Categ
5	S5NDATEF	S5NDATEF: S NDI flag death date and interview discrepancy	Categ
6	S6NDATEF	S6NDATEF: S NDI flag death date and interview discrepancy	Categ
7	S7NDATEF	S7NDATEF: S NDI flag death date and interview discrepancy	Categ
8	S8NDATEF	S8NDATEF: S NDI flag death date and interview discrepancy	Categ
9	S9NDATEF	S9NDATEF: S NDI flag death date and interview discrepancy	Categ
10	S10NDATEF	S10NDATEF: S NDI flag death date and interview discrepancy	Categ
11	S11NDATEF	S11NDATEF: S NDI flag death date and interview discrepancy	Categ
12	S12NDATEF	S12NDATEF: S NDI flag death date and interview discrepancy	Categ
1	RAIDATEF	RAIDATEF: R Exit Interview flag death date and interview discr	Categ
1	S1IDATEF	S1IDATEF: S Exit Interview flag death date and interview discr	Categ
2	S2IDATEF	S2IDATEF: S Exit Interview flag death date and interview discr	Categ
3	S3IDATEF	S3IDATEF: S Exit Interview flag death date and interview discr	Categ
4	S4IDATEF	S4IDATEF: S Exit Interview flag death date and interview discr	Categ
5	S5IDATEF	S5IDATEF: S Exit Interview flag death date and interview discr	Categ
6	S6IDATEF	S6IDATEF: S Exit Interview flag death date and interview discr	Categ
7	S7IDATEF	S7IDATEF: S Exit Interview flag death date and interview discr	Categ
8	S8IDATEF	S8IDATEF: S Exit Interview flag death date and interview discr	Categ
9	S9IDATEF	S9IDATEF: S Exit Interview flag death date and interview discr	Categ
10	S10IDATEF	S10IDATEF: S Exit Interview flag death date and interview disc	Categ
11	S11IDATEF	S11IDATEF: S Exit Interview flag death date and interview disc	Categ
12	S12IDATEF	S12IDATEF: S Exit Interview flag death date and interview disc	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RADYEAR	14018	2003.90	5.81	1992.0	2014.0
S1DYEAR	3489	2004.76	6.02	1992.0	2014.0
S2DYEAR	6699	2003.97	5.72	1993.0	2014.0
S3DYEAR	5633	2004.93	5.21	1994.0	2014.0
S4DYEAR	5584	2006.21	4.64	1994.0	2014.0
S5DYEAR	4543	2007.22	4.07	1994.0	2014.0
S6DYEAR	3622	2008.36	3.43	2000.0	2014.0
S7DYEAR	3062	2009.22	2.96	1992.0	2014.0
S8DYEAR	2347	2010.23	2.38	1992.0	2014.0
S9DYEAR	1663	2011.15	1.83	2001.0	2014.0
S10DYEAR	1073	2012.20	1.27	2001.0	2014.0
S11DYEAR	560	2013.02	1.09	2001.0	2014.0
S12DYEAR	20	2013.55	0.60	2012.0	2014.0
RADMONTH	14002	6.46	3.54	1.0	12.0
S1DMONTH	3484	6.54	3.54	1.0	12.0
S2DMONTH	6693	6.46	3.54	1.0	12.0
S3DMONTH	5626	6.45	3.54	1.0	12.0
S4DMONTH	5576	6.50	3.55	1.0	12.0
S5DMONTH	4535	6.49	3.57	1.0	12.0
S6DMONTH	3614	6.50	3.56	1.0	12.0
S7DMONTH	3053	6.54	3.56	1.0	12.0
S8DMONTH	2340	6.48	3.54	1.0	12.0
S9DMONTH	1657	6.45	3.55	1.0	12.0
S10DMONTH	1070	6.32	3.58	1.0	12.0
S11DMONTH	559	6.47	3.63	1.0	12.0
S12DMONTH	20	6.25	3.37	1.0	12.0

RADDATE	14018	16231.21	2120.02	11839.0	20088.0
S1DDATE	3489	16546.68	2192.72	11839.0	20088.0
S2DDATE	6699	16256.07	2085.34	12387.0	20088.0
S3DDATE	5633	16605.20	1900.37	12661.0	20088.0
S4DDATE	5584	17075.80	1687.52	12661.0	20088.0
S5DDATE	4543	17443.26	1479.73	12661.0	20088.0
S6DDATE	3622	17859.00	1245.09	14853.0	20088.0
S7DDATE	3062	18176.92	1070.72	12022.0	20088.0
S8DDATE	2347	18541.28	860.95	12022.0	20088.0
S9DDATE	1663	18877.37	655.95	15065.0	20088.0
S10DDATE	1073	19257.55	453.71	15065.0	20088.0
S11DDATE	560	19559.88	379.95	15065.0	20088.0
S12DDATE	20	19748.20	226.30	19236.0	19966.0
RANYEAR	12079	2002.67	5.09	1992.0	2011.0
S1NYEAR	2887	2003.29	5.38	1992.0	2011.0
S2NYEAR	5839	2002.86	5.06	1993.0	2011.0
S3NYEAR	4814	2003.75	4.53	1994.0	2011.0
S4NYEAR	4578	2004.90	3.92	1994.0	2011.0
S5NYEAR	3588	2005.88	3.34	1994.0	2011.0
S6NYEAR	2711	2006.97	2.68	2000.0	2011.0
S7NYEAR	2142	2007.79	2.21	1992.0	2011.0
S8NYEAR	1455	2008.77	1.64	1992.0	2011.0
S9NYEAR	851	2009.72	1.03	2006.0	2011.0
S10NYEAR	278	2010.76	0.49	2008.0	2011.0
S11NYEAR	5	2009.60	3.13	2004.0	2011.0
RANMONTH	12079	6.52	3.53	1.0	12.0
S1NMONTH	2887	6.64	3.52	1.0	12.0
S2NMONTH	5839	6.54	3.53	1.0	12.0
S3NMONTH	4814	6.54	3.53	1.0	12.0
S4NMONTH	4578	6.62	3.53	1.0	12.0
S5NMONTH	3588	6.62	3.55	1.0	12.0
S6NMONTH	2711	6.66	3.53	1.0	12.0
S7NMONTH	2142	6.77	3.53	1.0	12.0
S8NMONTH	1455	6.75	3.48	1.0	12.0
S9NMONTH	851	6.86	3.46	1.0	12.0
S10NMONTH	278	7.10	3.38	1.0	12.0
S11NMONTH	5	6.00	1.41	4.0	8.0
RANDATE	12079	15780.54	1859.42	11839.0	18992.0
S1NDATE	2887	16014.04	1963.82	11839.0	18992.0
S2NDATE	5839	15853.79	1848.60	12387.0	18992.0
S3NDATE	4814	16177.91	1654.98	12661.0	18992.0
S4NDATE	4578	16599.82	1428.15	12661.0	18992.0
S5NDATE	3588	16957.68	1216.13	12661.0	18992.0
S6NDATE	2711	17357.16	976.74	14853.0	18992.0
S7NDATE	2142	17661.60	804.04	12022.0	18992.0
S8NDATE	1455	18018.72	594.89	12022.0	18992.0
S9NDATE	851	18367.31	373.27	17044.0	18992.0
S10NDATE	278	18754.39	171.82	17866.0	18992.0
S11NDATE	5	18297.00	1144.02	16252.0	18870.0
RAIYEAR	12662	2004.13	5.76	1992.0	2014.0

S1IYEAR	2934	2005.42	5.69	1992.0	2014.0
S2IYEAR	6190	2003.96	5.79	1992.0	2014.0
S3IYEAR	5259	2004.95	5.27	1995.0	2014.0
S4IYEAR	5303	2006.27	4.67	1998.0	2014.0
S5IYEAR	4355	2007.28	4.07	2000.0	2014.0
S6IYEAR	3531	2008.38	3.44	2001.0	2014.0
S7IYEAR	2999	2009.25	2.96	2001.0	2014.0
S8IYEAR	2306	2010.26	2.36	2001.0	2014.0
S9IYEAR	1636	2011.17	1.83	2001.0	2014.0
S10IYEAR	1066	2012.21	1.27	2001.0	2014.0
S11IYEAR	559	2013.02	1.08	2001.0	2014.0
S12IYEAR	20	2013.55	0.60	2012.0	2014.0
RAIMONTH	12586	6.46	3.54	1.0	12.0
S1MONTH	2924	6.52	3.55	1.0	12.0
S2MONTH	6163	6.46	3.54	1.0	12.0
S3MONTH	5236	6.46	3.54	1.0	12.0
S4MONTH	5279	6.50	3.55	1.0	12.0
S5MONTH	4334	6.50	3.56	1.0	12.0
S6MONTH	3513	6.50	3.56	1.0	12.0
S7MONTH	2981	6.54	3.56	1.0	12.0
S8MONTH	2294	6.49	3.55	1.0	12.0
S9MONTH	1627	6.46	3.56	1.0	12.0
S10MONTH	1062	6.32	3.59	1.0	12.0
S11MONTH	558	6.47	3.64	1.0	12.0
S12MONTH	20	6.25	3.37	1.0	12.0
RAIDATE	12662	16314.42	2101.40	11961.0	20088.0
S1IDATE	2934	16786.75	2074.22	11961.0	20088.0
S2IDATE	6190	16252.98	2111.23	11747.0	20088.0
S3IDATE	5259	16612.09	1922.14	13117.0	20088.0
S4IDATE	5303	17095.31	1700.85	13938.0	20088.0
S5IDATE	4355	17467.57	1479.33	14669.0	20088.0
S6IDATE	3531	17868.79	1248.42	15065.0	20088.0
S7IDATE	2999	18184.68	1070.57	15065.0	20088.0
S8IDATE	2306	18552.58	851.84	15065.0	20088.0
S9IDATE	1636	18885.96	656.29	15065.0	20088.0
S10IDATE	1066	19260.67	453.84	15065.0	20088.0
S11IDATE	559	19561.22	378.95	15065.0	20088.0
S12IDATE	20	19748.20	226.30	19236.0	19966.0
RANDATEF	14292	1.66	3.45	0.0	9.0
S1NDATEF	3580	2.29	3.86	0.0	9.0
S2NDATEF	6774	1.59	3.39	0.0	9.0
S3NDATEF	5733	1.69	3.48	0.0	9.0
S4NDATEF	5702	1.94	3.68	0.0	9.0
S5NDATEF	4655	2.16	3.83	0.0	9.0
S6NDATEF	3727	2.50	4.03	0.0	9.0
S7NDATEF	3162	2.94	4.22	0.0	9.0
S8NDATEF	2427	3.63	4.41	0.0	9.0
S9NDATEF	1735	4.60	4.50	0.0	9.0
S10NDATEF	1139	6.80	3.87	0.0	9.0
S11NDATEF	612	8.93	0.81	0.0	9.0
S12NDATEF	25	9.00	0.00	9.0	9.0
RAIDATEF	13797	0.75	2.48	0.0	9.0

S1IDATEF	3347	1.15	3.00	0.0	9.0
S2IDATEF	6520	0.54	2.13	0.0	9.0
S3IDATEF	5559	0.51	2.07	0.0	9.0
S4IDATEF	5592	0.49	2.03	0.0	9.0
S5IDATEF	4605	0.51	2.07	0.0	9.0
S6IDATEF	3706	0.43	1.92	0.0	9.0
S7IDATEF	3144	0.43	1.91	0.0	9.0
S8IDATEF	2415	0.43	1.90	0.0	9.0
S9IDATEF	1729	0.50	2.05	0.0	9.0
S10IDATEF	1141	0.62	2.26	0.0	9.0
S11IDATEF	612	0.81	2.54	0.0	9.0
S12IDATEF	25	1.80	3.67	0.0	9.0

### Categorical Variable Codes

Value	RANDATEF
.X=No death date	23203
0.Death after last live IW	11594
3.Date betw last IW beg/end	4
8.DthDt aft last IW-maybe d	481
9.R died but no death date	2213

Value	S1NDATEF	S2NDATEF	S3NDATEF	S4NDATEF	S5NDATEF	S6NDATEF	S7NDATEF
.N=no live interivew	15	50	8	11	8	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	64	62	34	37	45
.X=No death date	6684	6784	6528	8740	8344	8093	10145
0.Death after last live IW	2642	5545	4637	4460	3532	2690	2128
3.Date betw last IW beg/end	1	3	2				
8.DthDt aft last IW-maybe d	229	241	167	107	48	19	14
9.R died but no death date	708	985	927	1135	1075	1018	1020

Value	S8NDATEF	S9NDATEF	S10NDATEF	S11NDATEF	S12NDATEF
.N=no live interivew	1				
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
.X=No death date	9573	9218	13008	12373	11509
0.Death after last live IW	1446	848	278	5	
8.DthDt aft last IW-maybe d	8	3			
9.R died but no death date	973	884	861	607	25

Value	RAIDATEF
.M=Missing death year	16
.X=No death date	23682
0.Death after last live IW	12639
2.Death dt bef last live IW	14
3.Date betw last IW beg/end	7
8.DthDt aft last IW-maybe d	2
9.R died but no death date	1135

Value	S1IDATEF	S2IDATEF	S3IDATEF	S4IDATEF	S5IDATEF	S6IDATEF	S7IDATEF
.M=Missing death year	5	7	5	4	3	2	1
.N=no live interview	14	56	10	11	8	2	3
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	65	62	34	37	45
.X=No death date	6913	7025	6694	8846	8391	8112	10159
0.Death after last live IW	2913	6123	5238	5283	4338	3521	2988
2.Death dt bef last live IW	6	8	8	8	8	8	8
3.Date betw last IW beg/end	1	3	2				
8.DthDt aft last IW-maybe d			1	1	1		
9.R died but no death date	427	386	310	300	258	177	148

Value	S8IDATEF	S9IDATEF	S10IDATEF	S11IDATEF	S12IDATEF
.M=Missing death year	1	1			
.N=no live interview	4	2			
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
.X=No death date	9581	9221	13006	12373	11509
0.Death after last live IW	2293	1626	1055	550	20
2.Death dt bef last live IW	9	8	9	9	
8.DthDt aft last IW-maybe d			2		
9.R died but no death date	113	95	75	53	5

## How Constructed

RANYEAR, RANMONTH and RANDATE are the National Death Index (NDI) dates, and RAIYEAR, RAIMONTH, and RAIDATE are the dates ascertained by HRS and populated by either the exit interview or spouse reported year of death information. These death dates are taken directly from the Tracker file. RADDATE and RANDATE are the SAS date format of the Death date. RADYEAR, RADMONTH and RADDATE are the combination of the NDI dates and the exit interview/spouse reported dates. If both are present, we use the NDI date.

To calculate RANDATE and RAIDATE, a day must also be used. If the death month is given, the last day of the month is used as the day. If the month is missing but year is given, and the year is the same as the last live interview, the month and day are set using the mean date between the last interview date and the last day of the year. Otherwise if the month is missing, the death date is set to July 1st of the death year. If the year is missing, the death date is missing.

The RANDATEF and RAIDATEF flags indicate discrepancies between the interview date and the HRS and NDI death dates, respectively (RANDATE/RAIDATE). The flags are assigned a value of 0 if the death date is after the Respondent's last live interview. They are assigned a value of 1 if there is a death date, but they are not reported as deceased in the Tracker file (RwIWSTAT is not 5 or 6 in any wave) and the death date falls before the Respondent's last live interview. If the death date is before the begin date of the last interview (RwIWBEG), the flags are assigned a value of 2. If it falls between the beginning and ending interview dates, the flags are set to 3. If there is a death date that falls after the Respondent's last live interview and s/he not reported as deceased in the Tracker file (RwIWSTAT=5 or 6), the Respondent may be deceased, and the flag is assigned a value of 8. If the Respondent has died (RwIWSTAT is 5 or 6) and no death date is given, the flag is set to 9. If there is no death date, a missing code of .X is assigned to the month, year, and date of death.

RADYEAR/RANYEAR/RAIYEAR and RADMONTH/RANMONTH/RAIMONTH are the year and month of death.

Spouse death date is taken from the Wave "w" spouse's death date, i.e., from the spouse's RADDATE.

## HRS Variables Used

### Tracker:

EXDEATHMO	MONTH OF DEATH
EXDEATHYR	YEAR OF DEATH
NMONTH	NDI MONTH OF DEATH
NYEAR	NDI YEAR OF DEATH

<b>Age at interview (in months and years)</b>
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Wave	Variable Name	Variable Label	Type
1	R1AGEM_B	R1AGEM_B:W1 R Age (months) at Ivw BegMon	Cont
2	R2AGEM_B	R2AGEM_B:W2 R Age (months) at Ivw BegMon	Cont
3	R3AGEM_B	R3AGEM_B:W3 R Age (months) at Ivw BegMon	Cont
4	R4AGEM_B	R4AGEM_B:W4 R Age (months) at Ivw BegMon	Cont
5	R5AGEM_B	R5AGEM_B:W5 R Age (months) at Ivw BegMon	Cont
6	R6AGEM_B	R6AGEM_B:W6 R Age (months) at Ivw BegMon	Cont
7	R7AGEM_B	R7AGEM_B:W7 R Age (months) at Ivw BegMon	Cont
8	R8AGEM_B	R8AGEM_B:W8 R Age (months) at Ivw BegMon	Cont
9	R9AGEM_B	R9AGEM_B:W9 R Age (months) at Ivw BegMon	Cont
10	R10AGEM_B	R10AGEM_B:W10 R Age (months) at Ivw BegMon	Cont
11	R11AGEM_B	R11AGEM_B:W11 R Age (months) at Ivw BegMon	Cont
12	R12AGEM_B	R12AGEM_B:W12 R Age (months) at Ivw BegMon	Cont
1	S1AGEM_B	S1AGEM_B:W1 S Age (months) at Ivw BegMon	Cont
2	S2AGEM_B	S2AGEM_B:W2 S Age (months) at Ivw BegMon	Cont
3	S3AGEM_B	S3AGEM_B:W3 S Age (months) at Ivw BegMon	Cont
4	S4AGEM_B	S4AGEM_B:W4 S Age (months) at Ivw BegMon	Cont
5	S5AGEM_B	S5AGEM_B:W5 S Age (months) at Ivw BegMon	Cont
6	S6AGEM_B	S6AGEM_B:W6 S Age (months) at Ivw BegMon	Cont
7	S7AGEM_B	S7AGEM_B:W7 S Age (months) at Ivw BegMon	Cont
8	S8AGEM_B	S8AGEM_B:W8 S Age (months) at Ivw BegMon	Cont
9	S9AGEM_B	S9AGEM_B:W9 S Age (months) at Ivw BegMon	Cont
10	S10AGEM_B	S10AGEM_B:W10 S Age (months) at Ivw BegMon	Cont
11	S11AGEM_B	S11AGEM_B:W11 S Age (months) at Ivw BegMon	Cont
12	S12AGEM_B	S12AGEM_B:W12 S Age (months) at Ivw BegMon	Cont
1	R1AGEY_B	R1AGEY_B:W1 R Age (years) at Ivw BegMon	Cont
2	R2AGEY_B	R2AGEY_B:W2 R Age (years) at Ivw BegMon	Cont
3	R3AGEY_B	R3AGEY_B:W3 R Age (years) at Ivw BegMon	Cont
4	R4AGEY_B	R4AGEY_B:W4 R Age (years) at Ivw BegMon	Cont
5	R5AGEY_B	R5AGEY_B:W5 R Age (years) at Ivw BegMon	Cont
6	R6AGEY_B	R6AGEY_B:W6 R Age (years) at Ivw BegMon	Cont
7	R7AGEY_B	R7AGEY_B:W7 R Age (years) at Ivw BegMon	Cont
8	R8AGEY_B	R8AGEY_B:W8 R Age (years) at Ivw BegMon	Cont
9	R9AGEY_B	R9AGEY_B:W9 R Age (years) at Ivw BegMon	Cont
10	R10AGEY_B	R10AGEY_B:W10 R Age (years) at Ivw BegMon	Cont
11	R11AGEY_B	R11AGEY_B:W11 R Age (years) at Ivw BegMon	Cont
12	R12AGEY_B	R12AGEY_B:W12 R Age (years) at Ivw BegMon	Cont
1	S1AGEY_B	S1AGEY_B:W1 S Age (years) at Ivw BegMon	Cont
2	S2AGEY_B	S2AGEY_B:W2 S Age (years) at Ivw BegMon	Cont
3	S3AGEY_B	S3AGEY_B:W3 S Age (years) at Ivw BegMon	Cont
4	S4AGEY_B	S4AGEY_B:W4 S Age (years) at Ivw BegMon	Cont
5	S5AGEY_B	S5AGEY_B:W5 S Age (years) at Ivw BegMon	Cont
6	S6AGEY_B	S6AGEY_B:W6 S Age (years) at Ivw BegMon	Cont
7	S7AGEY_B	S7AGEY_B:W7 S Age (years) at Ivw BegMon	Cont
8	S8AGEY_B	S8AGEY_B:W8 S Age (years) at Ivw BegMon	Cont
9	S9AGEY_B	S9AGEY_B:W9 S Age (years) at Ivw BegMon	Cont
10	S10AGEY_B	S10AGEY_B:W10 S Age (years) at Ivw BegMon	Cont
11	S11AGEY_B	S11AGEY_B:W11 S Age (years) at Ivw BegMon	Cont
12	S12AGEY_B	S12AGEY_B:W12 S Age (years) at Ivw BegMon	Cont
1	R1AGEM_E	R1AGEM_E:W1 R Age (months) at Ivw EndMon	Cont
2	R2AGEM_E	R2AGEM_E:W2 R Age (months) at Ivw EndMon	Cont
3	R3AGEM_E	R3AGEM_E:W3 R Age (months) at Ivw EndMon	Cont
4	R4AGEM_E	R4AGEM_E:W4 R Age (months) at Ivw EndMon	Cont
5	R5AGEM_E	R5AGEM_E:W5 R Age (months) at Ivw EndMon	Cont
6	R6AGEM_E	R6AGEM_E:W6 R Age (months) at Ivw EndMon	Cont
7	R7AGEM_E	R7AGEM_E:W7 R Age (months) at Ivw EndMon	Cont
8	R8AGEM_E	R8AGEM_E:W8 R Age (months) at Ivw EndMon	Cont
9	R9AGEM_E	R9AGEM_E:W9 R Age (months) at Ivw EndMon	Cont
10	R10AGEM_E	R10AGEM_E:W10 R Age (months) at Ivw EndMon	Cont
11	R11AGEM_E	R11AGEM_E:W11 R Age (months) at Ivw EndMon	Cont
12	R12AGEM_E	R12AGEM_E:W12 R Age (months) at Ivw EndMon	Cont
1	S1AGEM_E	S1AGEM_E:W1 S Age (months) at Ivw EndMon	Cont



2	S2AGEM_E	S2AGEM_E:W2	S	Age (months)	at	Ivw	EndMon	Cont
3	S3AGEM_E	S3AGEM_E:W3	S	Age (months)	at	Ivw	EndMon	Cont
4	S4AGEM_E	S4AGEM_E:W4	S	Age (months)	at	Ivw	EndMon	Cont
5	S5AGEM_E	S5AGEM_E:W5	S	Age (months)	at	Ivw	EndMon	Cont
6	S6AGEM_E	S6AGEM_E:W6	S	Age (months)	at	Ivw	EndMon	Cont
7	S7AGEM_E	S7AGEM_E:W7	S	Age (months)	at	Ivw	EndMon	Cont
8	S8AGEM_E	S8AGEM_E:W8	S	Age (months)	at	Ivw	EndMon	Cont
9	S9AGEM_E	S9AGEM_E:W9	S	Age (months)	at	Ivw	EndMon	Cont
10	S10AGEM_E	S10AGEM_E:W10	S	Age (months)	at	Ivw	EndMon	Cont
11	S11AGEM_E	S11AGEM_E:W11	S	Age (months)	at	Ivw	EndMon	Cont
12	S12AGEM_E	S12AGEM_E:W12	S	Age (months)	at	Ivw	EndMon	Cont
1	R1AGEY_E	R1AGEY_E:W1	R	Age (years)	at	Ivw	EndMon	Cont
2	R2AGEY_E	R2AGEY_E:W2	R	Age (years)	at	Ivw	EndMon	Cont
3	R3AGEY_E	R3AGEY_E:W3	R	Age (years)	at	Ivw	EndMon	Cont
4	R4AGEY_E	R4AGEY_E:W4	R	Age (years)	at	Ivw	EndMon	Cont
5	R5AGEY_E	R5AGEY_E:W5	R	Age (years)	at	Ivw	EndMon	Cont
6	R6AGEY_E	R6AGEY_E:W6	R	Age (years)	at	Ivw	EndMon	Cont
7	R7AGEY_E	R7AGEY_E:W7	R	Age (years)	at	Ivw	EndMon	Cont
8	R8AGEY_E	R8AGEY_E:W8	R	Age (years)	at	Ivw	EndMon	Cont
9	R9AGEY_E	R9AGEY_E:W9	R	Age (years)	at	Ivw	EndMon	Cont
10	R10AGEY_E	R10AGEY_E:W10	R	Age (years)	at	Ivw	EndMon	Cont
11	R11AGEY_E	R11AGEY_E:W11	R	Age (years)	at	Ivw	EndMon	Cont
12	R12AGEY_E	R12AGEY_E:W12	R	Age (years)	at	Ivw	EndMon	Cont
1	S1AGEY_E	S1AGEY_E:W1	S	Age (years)	at	Ivw	EndMon	Cont
2	S2AGEY_E	S2AGEY_E:W2	S	Age (years)	at	Ivw	EndMon	Cont
3	S3AGEY_E	S3AGEY_E:W3	S	Age (years)	at	Ivw	EndMon	Cont
4	S4AGEY_E	S4AGEY_E:W4	S	Age (years)	at	Ivw	EndMon	Cont
5	S5AGEY_E	S5AGEY_E:W5	S	Age (years)	at	Ivw	EndMon	Cont
6	S6AGEY_E	S6AGEY_E:W6	S	Age (years)	at	Ivw	EndMon	Cont
7	S7AGEY_E	S7AGEY_E:W7	S	Age (years)	at	Ivw	EndMon	Cont
8	S8AGEY_E	S8AGEY_E:W8	S	Age (years)	at	Ivw	EndMon	Cont
9	S9AGEY_E	S9AGEY_E:W9	S	Age (years)	at	Ivw	EndMon	Cont
10	S10AGEY_E	S10AGEY_E:W10	S	Age (years)	at	Ivw	EndMon	Cont
11	S11AGEY_E	S11AGEY_E:W11	S	Age (years)	at	Ivw	EndMon	Cont
12	S12AGEY_E	S12AGEY_E:W12	S	Age (years)	at	Ivw	EndMon	Cont
1	R1AGEM_M	R1AGEM_M:W1	R	Age (months)	at	Ivw	MidMon	Cont
2	R2AGEM_M	R2AGEM_M:W2	R	Age (months)	at	Ivw	MidMon	Cont
3	R3AGEM_M	R3AGEM_M:W3	R	Age (months)	at	Ivw	MidMon	Cont
4	R4AGEM_M	R4AGEM_M:W4	R	Age (months)	at	Ivw	MidMon	Cont
5	R5AGEM_M	R5AGEM_M:W5	R	Age (months)	at	Ivw	MidMon	Cont
6	R6AGEM_M	R6AGEM_M:W6	R	Age (months)	at	Ivw	MidMon	Cont
7	R7AGEM_M	R7AGEM_M:W7	R	Age (months)	at	Ivw	MidMon	Cont
8	R8AGEM_M	R8AGEM_M:W8	R	Age (months)	at	Ivw	MidMon	Cont
9	R9AGEM_M	R9AGEM_M:W9	R	Age (months)	at	Ivw	MidMon	Cont
10	R10AGEM_M	R10AGEM_M:W10	R	Age (months)	at	Ivw	MidMon	Cont
11	R11AGEM_M	R11AGEM_M:W11	R	Age (months)	at	Ivw	MidMon	Cont
12	R12AGEM_M	R12AGEM_M:W12	R	Age (months)	at	Ivw	MidMon	Cont
1	S1AGEM_M	S1AGEM_M:W1	S	Age (months)	at	Ivw	MidMon	Cont
2	S2AGEM_M	S2AGEM_M:W2	S	Age (months)	at	Ivw	MidMon	Cont
3	S3AGEM_M	S3AGEM_M:W3	S	Age (months)	at	Ivw	MidMon	Cont
4	S4AGEM_M	S4AGEM_M:W4	S	Age (months)	at	Ivw	MidMon	Cont
5	S5AGEM_M	S5AGEM_M:W5	S	Age (months)	at	Ivw	MidMon	Cont
6	S6AGEM_M	S6AGEM_M:W6	S	Age (months)	at	Ivw	MidMon	Cont
7	S7AGEM_M	S7AGEM_M:W7	S	Age (months)	at	Ivw	MidMon	Cont
8	S8AGEM_M	S8AGEM_M:W8	S	Age (months)	at	Ivw	MidMon	Cont
9	S9AGEM_M	S9AGEM_M:W9	S	Age (months)	at	Ivw	MidMon	Cont
10	S10AGEM_M	S10AGEM_M:W10	S	Age (months)	at	Ivw	MidMon	Cont
11	S11AGEM_M	S11AGEM_M:W11	S	Age (months)	at	Ivw	MidMon	Cont
12	S12AGEM_M	S12AGEM_M:W12	S	Age (months)	at	Ivw	MidMon	Cont
1	R1AGEY_M	R1AGEY_M:W1	R	Age (years)	at	Ivw	MidMon	Cont
2	R2AGEY_M	R2AGEY_M:W2	R	Age (years)	at	Ivw	MidMon	Cont
3	R3AGEY_M	R3AGEY_M:W3	R	Age (years)	at	Ivw	MidMon	Cont
4	R4AGEY_M	R4AGEY_M:W4	R	Age (years)	at	Ivw	MidMon	Cont
5	R5AGEY_M	R5AGEY_M:W5	R	Age (years)	at	Ivw	MidMon	Cont
6	R6AGEY_M	R6AGEY_M:W6	R	Age (years)	at	Ivw	MidMon	Cont
7	R7AGEY_M	R7AGEY_M:W7	R	Age (years)	at	Ivw	MidMon	Cont
8	R8AGEY_M	R8AGEY_M:W8	R	Age (years)	at	Ivw	MidMon	Cont

9	R9AGEY_M	R9AGEY_M:W9 R Age (years) at Ivw MidMon	Cont
10	R10AGEY_M	R10AGEY_M:W10 R Age (years) at Ivw MidMon	Cont
11	R11AGEY_M	R11AGEY_M:W11 R Age (years) at Ivw MidMon	Cont
12	R12AGEY_M	R12AGEY_M:W12 R Age (years) at Ivw MidMon	Cont
1	S1AGEY_M	S1AGEY_M:W1 S Age (years) at Ivw MidMon	Cont
2	S2AGEY_M	S2AGEY_M:W2 S Age (years) at Ivw MidMon	Cont
3	S3AGEY_M	S3AGEY_M:W3 S Age (years) at Ivw MidMon	Cont
4	S4AGEY_M	S4AGEY_M:W4 S Age (years) at Ivw MidMon	Cont
5	S5AGEY_M	S5AGEY_M:W5 S Age (years) at Ivw MidMon	Cont
6	S6AGEY_M	S6AGEY_M:W6 S Age (years) at Ivw MidMon	Cont
7	S7AGEY_M	S7AGEY_M:W7 S Age (years) at Ivw MidMon	Cont
8	S8AGEY_M	S8AGEY_M:W8 S Age (years) at Ivw MidMon	Cont
9	S9AGEY_M	S9AGEY_M:W9 S Age (years) at Ivw MidMon	Cont
10	S10AGEY_M	S10AGEY_M:W10 S Age (years) at Ivw MidMon	Cont
11	S11AGEY_M	S11AGEY_M:W11 S Age (years) at Ivw MidMon	Cont
12	S12AGEY_M	S12AGEY_M:W12 S Age (years) at Ivw MidMon	Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1AGEM_B	12651	668.60	67.95	278.0	1025.0
R2AGEM_B	19641	787.13	137.17	285.0	1243.0
R3AGEM_B	17991	801.75	133.54	264.0	1265.0
R4AGEM_B	21384	796.79	133.24	305.0	1264.0
R5AGEM_B	19579	811.09	130.02	284.0	1292.0
R6AGEM_B	18165	825.93	125.89	308.0	1316.0
R7AGEM_B	20129	804.31	137.86	296.0	1289.0
R8AGEM_B	18469	821.41	133.15	305.0	1255.0
R9AGEM_B	17217	835.91	129.05	301.0	1280.0
R10AGEM_B	22034	793.36	143.56	227.0	1308.0
R11AGEM_B	20554	807.73	139.05	244.0	1244.0
R12AGEM_B	18747	820.40	135.11	226.0	1253.0
S1AGEM_B	10279	667.44	73.58	278.0	1025.0
S2AGEM_B	13583	757.43	123.76	285.0	1243.0
S3AGEM_B	12254	772.10	119.16	263.0	1177.0
S4AGEM_B	14507	768.15	121.28	304.0	1185.0
S5AGEM_B	13040	781.89	117.35	282.0	1203.0
S6AGEM_B	11858	797.47	112.76	269.0	1227.0
S7AGEM_B	13352	776.87	125.66	331.0	1250.0
S8AGEM_B	12034	794.20	121.50	274.0	1191.0
S9AGEM_B	11011	809.10	119.21	270.0	1185.0
S10AGEM_B	14234	769.85	133.85	226.0	1178.0
S11AGEM_B	13080	784.26	129.32	244.0	1196.0
S12AGEM_B	11615	795.59	125.37	226.0	1196.0
R1AGEY_B	12651	55.25	5.67	23.0	85.0
R2AGEY_B	19641	65.13	11.43	23.0	103.0
R3AGEY_B	17991	66.35	11.13	22.0	105.0
R4AGEY_B	21384	65.94	11.11	25.0	105.0
R5AGEY_B	19579	67.13	10.84	23.0	107.0
R6AGEY_B	18165	68.37	10.50	25.0	109.0
R7AGEY_B	20129	66.57	11.49	24.0	107.0
R8AGEY_B	18469	67.99	11.10	25.0	104.0
R9AGEY_B	17217	69.20	10.76	25.0	106.0
R10AGEY_B	22034	65.66	11.97	18.0	109.0
R11AGEY_B	20554	66.85	11.59	20.0	103.0
R12AGEY_B	18747	67.90	11.26	18.0	104.0

S1AGEY_B	10279	55.16	6.14	23.0	85.0
S2AGEY_B	13583	62.66	10.32	23.0	103.0
S3AGEY_B	12254	63.88	9.93	21.0	98.0
S4AGEY_B	14507	63.55	10.11	25.0	98.0
S5AGEY_B	13040	64.69	9.78	23.0	100.0
S6AGEY_B	11858	66.00	9.40	22.0	102.0
S7AGEY_B	13352	64.28	10.47	27.0	104.0
S8AGEY_B	12034	65.72	10.13	22.0	99.0
S9AGEY_B	11011	66.96	9.94	22.0	98.0
S10AGEY_B	14234	63.69	11.16	18.0	98.0
S11AGEY_B	13080	64.89	10.78	20.0	99.0
S12AGEY_B	11615	65.84	10.45	18.0	99.0
R1AGEM_E	12651	668.62	67.95	278.0	1025.0
R2AGEM_E	19641	787.16	137.15	285.0	1243.0
R3AGEM_E	17991	801.79	133.52	264.0	1265.0
R4AGEM_E	21384	796.85	133.25	305.0	1264.0
R5AGEM_E	19579	811.14	130.03	284.0	1292.0
R6AGEM_E	18165	825.97	125.88	308.0	1316.0
R7AGEM_E	20129	804.31	137.86	296.0	1289.0
R8AGEM_E	18469	821.44	133.14	305.0	1255.0
R9AGEM_E	17217	835.95	129.05	301.0	1280.0
R10AGEM_E	22034	793.42	143.55	227.0	1308.0
R11AGEM_E	20554	807.82	139.04	244.0	1244.0
R12AGEM_E	18747	820.46	135.11	226.0	1253.0
S1AGEM_E	10279	667.46	73.58	278.0	1025.0
S2AGEM_E	13583	757.46	123.75	285.0	1243.0
S3AGEM_E	12254	772.14	119.14	263.0	1177.0
S4AGEM_E	14507	768.20	121.28	304.0	1185.0
S5AGEM_E	13040	781.93	117.35	282.0	1203.0
S6AGEM_E	11858	797.50	112.76	269.0	1227.0
S7AGEM_E	13352	776.87	125.66	331.0	1250.0
S8AGEM_E	12034	794.22	121.49	274.0	1191.0
S9AGEM_E	11011	809.13	119.20	270.0	1185.0
S10AGEM_E	14234	769.90	133.84	226.0	1178.0
S11AGEM_E	13080	784.34	129.31	244.0	1196.0
S12AGEM_E	11615	795.63	125.36	226.0	1196.0
R1AGEY_E	12651	55.26	5.67	23.0	85.0
R2AGEY_E	19641	65.14	11.43	23.0	103.0
R3AGEY_E	17991	66.36	11.13	22.0	105.0
R4AGEY_E	21384	65.94	11.11	25.0	105.0
R5AGEY_E	19579	67.13	10.84	23.0	107.0
R6AGEY_E	18165	68.37	10.50	25.0	109.0
R7AGEY_E	20129	66.57	11.49	24.0	107.0
R8AGEY_E	18469	67.99	11.10	25.0	104.0
R9AGEY_E	17217	69.21	10.76	25.0	106.0
R10AGEY_E	22034	65.66	11.97	18.0	109.0
R11AGEY_E	20554	66.85	11.59	20.0	103.0
R12AGEY_E	18747	67.91	11.26	18.0	104.0
S1AGEY_E	10279	55.16	6.14	23.0	85.0
S2AGEY_E	13583	62.66	10.32	23.0	103.0
S3AGEY_E	12254	63.89	9.93	21.0	98.0
S4AGEY_E	14507	63.55	10.11	25.0	98.0
S5AGEY_E	13040	64.70	9.78	23.0	100.0
S6AGEY_E	11858	66.00	9.40	22.0	102.0

S7AGEY_E	13352	64.28	10.47	27.0	104.0
S8AGEY_E	12034	65.72	10.13	22.0	99.0
S9AGEY_E	11011	66.97	9.94	22.0	98.0
S10AGEY_E	14234	63.70	11.16	18.0	98.0
S11AGEY_E	13080	64.90	10.78	20.0	99.0
S12AGEY_E	11615	65.84	10.45	18.0	99.0
R1AGEM_M	12651	668.61	67.95	278.0	1025.0
R2AGEM_M	19641	787.15	137.16	285.0	1243.0
R3AGEM_M	17991	801.76	133.54	264.0	1265.0
R4AGEM_M	21384	796.81	133.25	305.0	1264.0
R5AGEM_M	19579	811.10	130.02	284.0	1292.0
R6AGEM_M	18165	825.94	125.89	308.0	1316.0
R7AGEM_M	20129	804.31	137.86	296.0	1289.0
R8AGEM_M	18469	821.42	133.15	305.0	1255.0
R9AGEM_M	17217	835.92	129.06	301.0	1280.0
R10AGEM_M	22034	793.37	143.56	227.0	1308.0
R11AGEM_M	20554	807.76	139.05	244.0	1244.0
R12AGEM_M	18747	820.41	135.11	226.0	1253.0
S1AGEM_M	10279	667.45	73.58	278.0	1025.0
S2AGEM_M	13583	757.44	123.75	285.0	1243.0
S3AGEM_M	12254	772.11	119.15	263.0	1177.0
S4AGEM_M	14507	768.17	121.28	304.0	1185.0
S5AGEM_M	13040	781.90	117.35	282.0	1203.0
S6AGEM_M	11858	797.48	112.76	269.0	1227.0
S7AGEM_M	13352	776.87	125.66	331.0	1250.0
S8AGEM_M	12034	794.21	121.50	274.0	1191.0
S9AGEM_M	11011	809.11	119.21	270.0	1185.0
S10AGEM_M	14234	769.87	133.85	226.0	1178.0
S11AGEM_M	13080	784.28	129.32	244.0	1196.0
S12AGEM_M	11615	795.60	125.37	226.0	1196.0
R1AGEY_M	12651	55.26	5.67	23.0	85.0
R2AGEY_M	19641	65.13	11.43	23.0	103.0
R3AGEY_M	17991	66.36	11.13	22.0	105.0
R4AGEY_M	21384	65.94	11.11	25.0	105.0
R5AGEY_M	19579	67.13	10.84	23.0	107.0
R6AGEY_M	18165	68.37	10.50	25.0	109.0
R7AGEY_M	20129	66.57	11.49	24.0	107.0
R8AGEY_M	18469	67.99	11.10	25.0	104.0
R9AGEY_M	17217	69.20	10.76	25.0	106.0
R10AGEY_M	22034	65.66	11.97	18.0	109.0
R11AGEY_M	20554	66.85	11.59	20.0	103.0
R12AGEY_M	18747	67.90	11.26	18.0	104.0
S1AGEY_M	10279	55.16	6.14	23.0	85.0
S2AGEY_M	13583	62.66	10.32	23.0	103.0
S3AGEY_M	12254	63.89	9.93	21.0	98.0
S4AGEY_M	14507	63.55	10.11	25.0	98.0
S5AGEY_M	13040	64.69	9.78	23.0	100.0
S6AGEY_M	11858	66.00	9.40	22.0	102.0
S7AGEY_M	13352	64.28	10.47	27.0	104.0
S8AGEY_M	12034	65.72	10.13	22.0	99.0
S9AGEY_M	11011	66.96	9.94	22.0	98.0
S10AGEY_M	14234	63.69	11.16	18.0	98.0
S11AGEY_M	13080	64.90	10.78	20.0	99.0
S12AGEY_M	11615	65.84	10.45	18.0	99.0

## How Constructed

Age at the beginning of the interview (RwAGEM\_B) is calculated from the Respondent birthdate and beginning interview date (RwIWBEG), in months and years. Age in years (RwAGEY\_B) is the integer portion of the number of months old divided by 12.

Age in months and years at the end of the interview (RwAGEM\_E and RwAGEY\_E) is calculated in the same way, but uses the ending interview date (RwIWEND). Age in months and years at the midpoint between the beginning and ending interview dates (RwAGEM\_M and RwAGEY\_M) is calculated in the same way, but uses the midpoint between interview dates (RwIWMID).

According to HRS, when there are different beginning and ending interview dates, most of the interview is usually conducted on the ending date. Thus, it is probably best to use the RwAGEM\_E and RwAGEY\_E variables for Respondent age at each interview.

From Wave 6 forward, and in AHEAD Waves 2A and 3A, the beginning and ending interview dates are always the same. In those waves, RwAGEY\_B, RwAGEY\_M, and RwAGEY\_E are all the same, as are RwAGEM\_B, RwAGEY\_M and RwAGEY\_E.

See Birth Month (RABMONTH, RABYEAR, RABDATE) for a description of how the birth date is derived. See Interview Dates (RwIWBEG, RwIWEND, RwIWMID) for a description of how the beginning, ending, and midpoint interview dates are derived.

Spouse age is calculated using the spouse birth month and the Respondent's interview month at each wave.

Spouse birth date is taken from the Wave "w" spouse's birth date, i.e., from SwBDATE.

Gender			
Wave	Variable Name	Variable Label	Type
1	RAGENDER	RAGENDER: R Gender	Categ
1	S1GENDER	S1GENDER: S Gender	Categ
2	S2GENDER	S2GENDER: S Gender	Categ
3	S3GENDER	S3GENDER: S Gender	Categ
4	S4GENDER	S4GENDER: S Gender	Categ
5	S5GENDER	S5GENDER: S Gender	Categ
6	S6GENDER	S6GENDER: S Gender	Categ
7	S7GENDER	S7GENDER: S Gender	Categ
8	S8GENDER	S8GENDER: S Gender	Categ
9	S9GENDER	S9GENDER: S Gender	Categ
10	S10GENDER	S10GENDER: S Gender	Categ
11	S11GENDER	S11GENDER: S Gender	Categ
12	S12GENDER	S12GENDER: S Gender	Categ

Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAGENDER	37495	1.56	0.50	1.0	2.0
S1GENDER	10279	1.50	0.50	1.0	2.0
S2GENDER	13628	1.50	0.50	1.0	2.0
S3GENDER	12299	1.50	0.50	1.0	2.0
S4GENDER	14515	1.50	0.50	1.0	2.0
S5GENDER	13041	1.50	0.50	1.0	2.0
S6GENDER	11822	1.50	0.50	1.0	2.0
S7GENDER	13307	1.50	0.50	1.0	2.0
S8GENDER	12001	1.50	0.50	1.0	2.0
S9GENDER	10953	1.50	0.50	1.0	2.0
S10GENDER	14147	1.50	0.50	1.0	2.0
S11GENDER	12964	1.50	0.50	1.0	2.0
S12GENDER	11512	1.50	0.50	1.0	2.0

## Categorical Variable Codes

Value	RAGENDER
1.Male	16429
2.Female	21066

Value	S1GENDER	S2GENDER	S3GENDER	S4GENDER	S5GENDER	S6GENDER	S7GENDER
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		44	34			37	45
1.Male	5165	6846	6171	7268	6519	5900	6665
2.Female	5114	6782	6128	7247	6522	5922	6642

Value	S8GENDER	S9GENDER	S10GENDER	S11GENDER	S12GENDER
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	116	108
1.Male	5989	5476	7090	6496	5767
2.Female	6012	5477	7057	6468	5745

## How Constructed

Gender is taken from the Tracker file.

Spouse gender is taken from the Wave "w" spouse's RAGENDER variable.

## Cross Wave Differences in Original HRS Data

Gender is reported in the Tracker file and in all waves. We only use the Tracker file in our derivation as it has the most up-to-date information.

Spouse gender is available in all waves, if the Respondent is married or partnered.

## HRS Variables Used

Tracker:  
GENDER                      GENDER

<b>Race, Ethnicity: Race</b>
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Wave	Variable Name	Variable Label	Type
1	RARACEM	RARACEM: R Race - masked	Categ
1	S1RACEM	S1RACEM: S Race - masked	Categ
2	S2RACEM	S2RACEM: S Race - masked	Categ
3	S3RACEM	S3RACEM: S Race - masked	Categ
4	S4RACEM	S4RACEM: S Race - masked	Categ
5	S5RACEM	S5RACEM: S Race - masked	Categ
6	S6RACEM	S6RACEM: S Race - masked	Categ
7	S7RACEM	S7RACEM: S Race - masked	Categ
8	S8RACEM	S8RACEM: S Race - masked	Categ
9	S9RACEM	S9RACEM: S Race - masked	Categ
10	S10RACEM	S10RACEM: S Race - masked	Categ
11	S11RACEM	S11RACEM: S Race - masked	Categ
12	S12RACEM	S12RACEM: S Race - masked	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RARACEM	37411	1.31	0.59	1.0	3.0
S1RACEM	10148	1.21	0.49	1.0	3.0
S2RACEM	13503	1.18	0.46	1.0	3.0
S3RACEM	12197	1.17	0.45	1.0	3.0
S4RACEM	14356	1.18	0.46	1.0	3.0
S5RACEM	12953	1.18	0.47	1.0	3.0
S6RACEM	11782	1.18	0.47	1.0	3.0
S7RACEM	13218	1.21	0.52	1.0	3.0
S8RACEM	11943	1.21	0.52	1.0	3.0
S9RACEM	10894	1.21	0.52	1.0	3.0
S10RACEM	13871	1.33	0.64	1.0	3.0
S11RACEM	12789	1.34	0.64	1.0	3.0
S12RACEM	11341	1.35	0.65	1.0	3.0



## Categorical Variable Codes

Value	RARACEM
.M=Oth missing	84
1.White/Caucasian	28184
2.Black/African American	6731
3.Other	2496

Value	S1RACEM	S2RACEM	S3RACEM	S4RACEM	S5RACEM	S6RACEM	S7RACEM
.M=Oth missing		13	6	6	4	4	3
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	131	156	130	153	84	73	131
1.White/Caucasian	8439	11531	10486	12319	11139	10107	11105
2.Black/African American	1313	1554	1332	1539	1340	1238	1409
3.Other	396	418	379	498	474	437	704

Value	S8RACEM	S9RACEM	S10RACEM	S11RACEM	S12RACEM
.M=Oth missing	2	1	42	45	44
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	107	116	322	246	235
1.White/Caucasian	10092	9189	10584	9687	8528
2.Black/African American	1227	1114	2013	1874	1672
3.Other	624	591	1274	1228	1141

## How Constructed

Race is assigned by looking at reports from Tracker and all waves of data. The non-missing race variable from Tracker is used. If race is missing, then the first non-missing race from all waves is used.

SwRACEM provides the race of the Respondent's spouse or partner. It is taken from the Wave "w" spouse's RARACEM variables.

## Cross Wave Differences in Original HRS Data

Before Wave 8 race is asked at the Respondent's first interview. In Wave 8, the question format was changed to meet OMB guidelines. In particular, Respondents were allowed to report multiple races, and some categories that had previously been combined were separated. Also, if more than one race was reported, Respondents were asked which one they consider to be their primary race. The new format is asked only once of all Respondents, either in Wave 8 or the first wave after that in which a Respondent completed an interview.

## HRS Variables Used

HRS 1992:

V10221	A8:RACE/ETHNICITY :IND
V216	A7:HISPANIC OR LATINO
V221	A8:RACE/ETHNICITY :IMP

AHEAD 1993:

B140	A7. R HISPANIC/LATINO
B143	A8. R'S RACE

HRS 1994:

W228	A15. Hispanic or Latino
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W233	A16. Race/Ethnicity
AHEAD 1995:	
D664	A7. HISPANIC
D667M	A8. R RACE - MASKED
HRS 1996:	
E664	A7.HISPANIC
E667M	A8.R RACE - MASKED
HRS 1998:	
F1002	A7.HISPANIC
F1005M	A8.R RACE - MASKED
HRS 2000:	
G1089	A7.HISPANIC
G1092A	A8.R RACE - COMBINED MASKED
G1092M	A8.R RACE - MASKED
HRS 2002:	
HB028	R HISPANIC/LATINO
HB031M	R RACE - MASKED
HRS 2004:	
JB028	R HISPANIC/LATINO
JB031M	R RACE - MASKED
HRS 2006:	
KB028	R HISPANIC/LATINO
KB089M1M	R RACE - MULTIPLE RESPONSE -1 MASKED
KB091M	R RACE - PRIMARY - MASKED
HRS 2008:	
LB028	R HISPANIC/LATINO
LB089M1M	R RACE - MULTIPLE RESPONSE -1 MASKED
LB091M	R RACE - PRIMARY - MASKED
HRS 2010:	
MB028	R HISPANIC/LATINO
MB089M1M	R RACE - MULTIPLE RESPONSE -1 MASKED
MB091M	R RACE - PRIMARY - MASKED
HRS 2012:	
NB028	R HISPANIC/LATINO
NB089M1M	R RACE - MULTIPLE RESPONSE -1 MASKED
NB091M	R RACE - PRIMARY - MASKED
HRS 2014:	
OB028	R HISPANIC/LATINO
OB089M1M	R RACE - MULTIPLE RESPONSE -1 MASKED
OB091M	R RACE - PRIMARY - MASKED
Tracker:	
HISPANIC	HISPANICITY TYPE
RACE	RACE/ETHNICITY

<b>Race, Ethnicity: Whether Hispanic</b>
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Wave	Variable Name	Variable Label	Type
1	RAHISPAN	RAHISPAN: R Hispanic	Categ
1	S1HISPAN	S1HISPAN: S Hispanic	Categ
2	S2HISPAN	S2HISPAN: S Hispanic	Categ
3	S3HISPAN	S3HISPAN: S Hispanic	Categ
4	S4HISPAN	S4HISPAN: S Hispanic	Categ
5	S5HISPAN	S5HISPAN: S Hispanic	Categ
6	S6HISPAN	S6HISPAN: S Hispanic	Categ
7	S7HISPAN	S7HISPAN: S Hispanic	Categ
8	S8HISPAN	S8HISPAN: S Hispanic	Categ
9	S9HISPAN	S9HISPAN: S Hispanic	Categ
10	S10HISPAN	S10HISPAN: S Hispanic	Categ
11	S11HISPAN	S11HISPAN: S Hispanic	Categ
12	S12HISPAN	S12HISPAN: S Hispanic	Categ

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAHISPAN	37433	0.11	0.32	0.0	1.0
S1HISPAN	10139	0.09	0.29	0.0	1.0
S2HISPAN	13497	0.08	0.26	0.0	1.0
S3HISPAN	12193	0.08	0.27	0.0	1.0
S4HISPAN	14358	0.08	0.27	0.0	1.0
S5HISPAN	12956	0.08	0.27	0.0	1.0
S6HISPAN	11784	0.08	0.27	0.0	1.0
S7HISPAN	13222	0.10	0.30	0.0	1.0
S8HISPAN	11945	0.09	0.29	0.0	1.0
S9HISPAN	10894	0.10	0.30	0.0	1.0
S10HISPAN	13897	0.14	0.35	0.0	1.0
S11HISPAN	12812	0.15	0.36	0.0	1.0
S12HISPAN	11366	0.16	0.36	0.0	1.0

## Categorical Variable Codes

Value	RAHISPAN
.M=Oth missing	62
0.Not Hispanic	33236
1.Hispanic	4197

Value	S1HISPAN	S2HISPAN	S3HISPAN	S4HISPAN	S5HISPAN	S6HISPAN	S7HISPAN
.M=Oth missing	9	19	11	7	4	3	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	131	156	129	150	81	72	130
0.Not Hispanic	9223	12477	11233	13238	11919	10830	11919
1.Hispanic	916	1020	960	1120	1037	954	1303

Value	S8HISPAN	S9HISPAN	S10HISPAN	S11HISPAN	S12HISPAN
.M=Oth missing		1	15	22	19
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	107	116	323	246	235
0.Not Hispanic	10813	9818	11891	10891	9582
1.Hispanic	1132	1076	2006	1921	1784

## How Constructed

RAHISPAN indicates whether the Respondent is Hispanic. It is assigned by looking at reports from the Tracker file and all waves of data. The non-missing Hispanic variable from Tracker file is used. If RAHISPAN is missing, then the first non-missing Hispanic from all waves of data is used.

In the Tracker file variable, both Mexican-American and Other Hispanic are recoded to "1." The codes for the core data variables which indicate yes, for Hispanic, are recoded to "1," and no is recoded to "0."

SwHISPAN indicates whether the Respondent's spouse or partner is Hispanic. It is taken from the Wave "w" spouse's RAHISPAN variable.

## Cross Wave Differences in Original HRS Data

Before Wave 8, individuals are asked whether they consider themselves Hispanic or Latino at their first interview. In Wave 8, everyone is asked this question. From Wave 9, the question is asked if it's the first interview.

## HRS Variables Used

HRS 1992:	
V216	A7:HISPANIC OR LATINO
AHEAD 1993:	
B140	A7. R HISPANIC/LATINO
HRS 1994:	
W228	A15. Hispanic or Latino
AHEAD 1995:	
D664	A7. HISPANIC
HRS 1996:	
E664	A7.HISPANIC

HRS 1998:	
F1002	A7.HISPANIC
HRS 2000:	
G1089	A7.HISPANIC
HRS 2002:	
HB028	R HISPANIC/LATINO
HRS 2004:	
JB028	R HISPANIC/LATINO
HRS 2006:	
KB028	R HISPANIC/LATINO
HRS 2008:	
LB028	R HISPANIC/LATINO
HRS 2010:	
MB028	R HISPANIC/LATINO
HRS 2012:	
NB028	R HISPANIC/LATINO
HRS 2014:	
OB028	R HISPANIC/LATINO
Tracker:	
HISPANIC	HISPANICITY TYPE

<b>Census Region</b>
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Wave	Variable Name	Variable Label	Type
1	R1CENREG	R1CENREG:W1 Census Region	Categ
2	R2CENREG	R2CENREG:W2 Census Region	Categ
3	R3CENREG	R3CENREG:W3 Census Region	Categ
4	R4CENREG	R4CENREG:W4 Census Region	Categ
5	R5CENREG	R5CENREG:W5 Census Region	Categ
6	R6CENREG	R6CENREG:W6 Census Region	Categ
7	R7CENREG	R7CENREG:W7 Census Region	Categ
8	R8CENREG	R8CENREG:W8 Census Region	Categ
9	R9CENREG	R9CENREG:W9 Census Region	Categ
10	R10CENREG	R10CENREG:W10 Census Region	Categ
11	R11CENREG	R11CENREG:W11 Census Region	Categ
12	R12CENREG	R12CENREG:W12 Census Region	Categ
1	S1CENREG	S1CENREG:W1 Census Region	Categ
2	S2CENREG	S2CENREG:W2 Census Region	Categ
3	S3CENREG	S3CENREG:W3 Census Region	Categ
4	S4CENREG	S4CENREG:W4 Census Region	Categ
5	S5CENREG	S5CENREG:W5 Census Region	Categ
6	S6CENREG	S6CENREG:W6 Census Region	Categ
7	S7CENREG	S7CENREG:W7 Census Region	Categ
8	S8CENREG	S8CENREG:W8 Census Region	Categ
9	S9CENREG	S9CENREG:W9 Census Region	Categ
10	S10CENREG	S10CENREG:W10 Census Region	Categ
11	S11CENREG	S11CENREG:W11 Census Region	Categ
12	S12CENREG	S12CENREG:W12 Census Region	Categ
1	R1CENDIV	R1CENDIV:W1 Census Division	Categ
2	R2CENDIV	R2CENDIV:W2 Census Division	Categ
3	R3CENDIV	R3CENDIV:W3 Census Division	Categ
4	R4CENDIV	R4CENDIV:W4 Census Division	Categ
5	R5CENDIV	R5CENDIV:W5 Census Division	Categ
6	R6CENDIV	R6CENDIV:W6 Census Division	Categ
7	R7CENDIV	R7CENDIV:W7 Census Division	Categ
8	R8CENDIV	R8CENDIV:W8 Census Division	Categ
9	R9CENDIV	R9CENDIV:W9 Census Division	Categ
10	R10CENDIV	R10CENDIV:W10 Census Division	Categ
11	R11CENDIV	R11CENDIV:W11 Census Division	Categ
12	R12CENDIV	R12CENDIV:W12 Census Division	Categ
1	S1CENDIV	S1CENDIV:W1 Census Division	Categ
2	S2CENDIV	S2CENDIV:W2 Census Division	Categ
3	S3CENDIV	S3CENDIV:W3 Census Division	Categ
4	S4CENDIV	S4CENDIV:W4 Census Division	Categ
5	S5CENDIV	S5CENDIV:W5 Census Division	Categ
6	S6CENDIV	S6CENDIV:W6 Census Division	Categ
7	S7CENDIV	S7CENDIV:W7 Census Division	Categ
8	S8CENDIV	S8CENDIV:W8 Census Division	Categ
9	S9CENDIV	S9CENDIV:W9 Census Division	Categ
10	S10CENDIV	S10CENDIV:W10 Census Division	Categ
11	S11CENDIV	S11CENDIV:W11 Census Division	Categ
12	S12CENDIV	S12CENDIV:W12 Census Division	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1CENREG	12652	2.57	0.96	1.0	4.0
R2CENREG	19640	2.56	0.96	1.0	4.0
R3CENREG	17989	2.57	0.96	1.0	5.0
R4CENREG	21379	2.59	0.96	1.0	5.0
R5CENREG	19568	2.59	0.96	1.0	5.0

R6CENREG	18146	2.60	0.96	1.0	5.0
R7CENREG	20114	2.62	0.97	1.0	5.0
R8CENREG	18457	2.63	0.97	1.0	5.0
R9CENREG	17206	2.64	0.96	1.0	5.0
R10CENREG	22019	2.68	0.97	1.0	5.0
R11CENREG	20542	2.69	0.97	1.0	5.0
R12CENREG	18733	2.69	0.97	1.0	5.0
S1CENREG	9900	2.57	0.95	1.0	4.0
S2CENREG	13087	2.58	0.96	1.0	4.0
S3CENREG	11915	2.59	0.95	1.0	5.0
S4CENREG	13974	2.61	0.95	1.0	5.0
S5CENREG	12722	2.61	0.96	1.0	5.0
S6CENREG	11627	2.62	0.96	1.0	5.0
S7CENREG	12960	2.64	0.97	1.0	5.0
S8CENREG	11724	2.65	0.97	1.0	5.0
S9CENREG	10637	2.66	0.96	1.0	5.0
S10CENREG	13504	2.71	0.97	1.0	5.0
S11CENREG	12477	2.72	0.97	1.0	5.0
S12CENREG	11014	2.73	0.98	1.0	5.0
R1CENDIV	12652	4.90	2.30	1.0	9.0
R2CENDIV	19640	4.88	2.32	1.0	9.0
R3CENDIV	17989	4.90	2.31	1.0	11.0
R4CENDIV	21379	4.94	2.32	1.0	11.0
R5CENDIV	19568	4.96	2.34	1.0	11.0
R6CENDIV	18146	4.99	2.34	1.0	11.0
R7CENDIV	20114	5.04	2.38	1.0	11.0
R8CENDIV	18457	5.06	2.37	1.0	11.0
R9CENDIV	17206	5.07	2.36	1.0	11.0
R10CENDIV	22019	5.20	2.40	1.0	11.0
R11CENDIV	20542	5.21	2.39	1.0	11.0
R12CENDIV	18733	5.23	2.39	1.0	11.0
S1CENDIV	9900	4.91	2.29	1.0	9.0
S2CENDIV	13087	4.93	2.32	1.0	9.0
S3CENDIV	11915	4.96	2.31	1.0	11.0
S4CENDIV	13974	4.99	2.33	1.0	11.0
S5CENDIV	12722	4.99	2.34	1.0	11.0
S6CENDIV	11627	5.02	2.34	1.0	11.0
S7CENDIV	12960	5.07	2.39	1.0	11.0
S8CENDIV	11724	5.10	2.38	1.0	11.0
S9CENDIV	10637	5.11	2.36	1.0	11.0
S10CENDIV	13504	5.28	2.41	1.0	11.0
S11CENDIV	12477	5.31	2.41	1.0	11.0
S12CENDIV	11014	5.32	2.42	1.0	11.0

## Categorical Variable Codes

Value	R1CENREG	R2CENREG	R3CENREG	R4CENREG	R5CENREG	R6CENREG	R7CENREG
.M=Oth missing		2	2	5	11	19	15
1.Northeast	2236	3526	3133	3582	3301	2971	3249
2.Midwest	3044	4775	4438	5323	4823	4527	5001
3.South	5335	8200	7490	8856	8056	7448	8008
4.West	2037	3139	2919	3606	3369	3186	3823
5.Other			9	12	19	14	33

Value	R8CENREG	R9CENREG	R10CENREG	R11CENREG	R12CENREG
.M=Oth missing	12	11	15	12	14
1.Northeast	2873	2640	3382	3115	2831
2.Midwest	4630	4275	4925	4568	4104
3.South	7437	7011	9112	8534	7841
4.West	3476	3237	4558	4284	3908
5.Other	41	43	42	41	49

Value	S1CENREG	S2CENREG	S3CENREG	S4CENREG	S5CENREG	S6CENREG	S7CENREG
.M=Oth missing		1		4	8	12	12
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Northeast	1680	2211	1940	2194	2051	1816	1994
2.Midwest	2463	3261	3007	3549	3199	2969	3311
3.South	4174	5432	4943	5745	5199	4722	5066
4.West	1583	2183	2019	2477	2260	2110	2567
5.Other			6	9	13	10	22

Value	S8CENREG	S9CENREG	S10CENREG	S11CENREG	S12CENREG
.M=Oth missing	11	9	9	11	13
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Northeast	1738	1520	1905	1751	1555
2.Midwest	3008	2738	3123	2822	2452
3.South	4650	4282	5482	5079	4483
4.West	2298	2067	2964	2795	2492
5.Other	30	30	30	30	32



Value	R1CENDIV	R2CENDIV	R3CENDIV	R4CENDIV	R5CENDIV	R6CENDIV	R7CENDIV
.M=Oth missing		2	2	5	11	19	15
1.New England	469	780	700	864	800	715	835
2.Mid Atlantic	1767	2746	2433	2718	2501	2256	2414
3.EN Central	1989	3236	2980	3562	3178	2980	3353
4.WN Central	1055	1539	1458	1761	1645	1547	1648
5.S Atlantic	3256	4981	4577	5434	4884	4444	4732
6.ES Central	818	1119	1018	1195	1119	1056	1180
7.WS Central	1261	2100	1895	2227	2053	1948	2096
8.Mountain	513	797	809	1017	962	912	1156
9.Pacific	1524	2342	2110	2589	2407	2274	2667
11.Not US/inc US terr			9	12	19	14	33

Value	R8CENDIV	R9CENDIV	R10CENDIV	R11CENDIV	R12CENDIV
.M=Oth missing	12	11	15	12	14
1.New England	739	665	789	712	626
2.Mid Atlantic	2134	1975	2593	2403	2205
3.EN Central	3066	2822	3362	3133	2820
4.WN Central	1564	1453	1563	1435	1284
5.S Atlantic	4321	4103	5170	4825	4415
6.ES Central	1136	1064	1373	1321	1209
7.WS Central	1980	1844	2569	2388	2217
8.Mountain	1092	1055	1378	1310	1209
9.Pacific	2384	2182	3180	2974	2699
11.Not US/inc US terr	41	43	42	41	49

Value	S1CENDIV	S2CENDIV	S3CENDIV	S4CENDIV	S5CENDIV	S6CENDIV	S7CENDIV
.M=Oth missing		1		4	8	12	12
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.New England	379	511	437	547	515	449	542
2.Mid Atlantic	1301	1700	1503	1647	1536	1367	1452
3.EN Central	1586	2181	2011	2330	2074	1922	2196
4.WN Central	877	1080	996	1219	1125	1047	1115
5.S Atlantic	2515	3259	2981	3517	3115	2791	2995
6.ES Central	653	773	697	793	759	707	760
7.WS Central	1006	1400	1265	1435	1325	1224	1311
8.Mountain	409	583	581	699	656	619	797
9.Pacific	1174	1600	1438	1778	1604	1491	1770
11.Not US/inc US terr			6	9	13	10	22

Value	S8CENDIV	S9CENDIV	S10CENDIV	S11CENDIV	S12CENDIV
.M=Oth missing	11	9	9	11	13
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.New England	463	402	472	422	360
2.Mid Atlantic	1275	1118	1433	1329	1195
3.EN Central	1977	1794	2112	1912	1671
4.WN Central	1031	944	1011	910	781
5.S Atlantic	2669	2490	3070	2825	2476
6.ES Central	726	659	816	786	692
7.WS Central	1255	1133	1596	1468	1315
8.Mountain	736	668	908	856	760
9.Pacific	1562	1399	2056	1939	1732
11.Not US/inc US terr	30	30	30	30	32

## How Constructed

RwCENREG gives the Census Region and RwCENDIV the Census Division of Respondent residence at wave 'w.' The Census Division of residence is provided in the HRS 2004 Geographic Region Information file, and in the core data for

most waves. Census Division is recoded into the larger Census Regions. Information for 2006 is only available in the core data.

If the residence location in the Geographic Region file variables is missing, we examine variables from the core data for location, if available. We then look at the spouse's residence from the Geographic Region file, and if the couple is living together, use it to fill missing variables as well. Finally, we examine variables indicating whether the household moved between waves, and if not, carry prior residence forward, or future residence back.

In the core data, location of residence is collected in the first interview for the entry cohort sub-sample, i.e., in Wave 1 for the HRS cohort, Wave 2A for the AHEAD cohort, Wave 4 for the CODA and War Babies cohorts, and Wave 7 for the EBB cohort. At subsequent interviews, questions ask whether the household moved, and if so, if the move was within the same area as the previous interview residence. If the household moved out of the area, the new location was collected. The new location is provided in the core data, except in Waves 2H and 3A.

Note that most of the time the Respondent and spouse live in the same Census Region, but occasionally the two regions differ.

The spouse's Census Region and Division are taken from the Wave "w" spouse's variables, i.e., from the Wave "w" spouse's `RwCENREG` and `RwCENDIV`.

## Cross Wave Differences in Original HRS Data

Region of residence for all waves before 2006 is provided in the HRS 2004 Geographic Region Information file. In addition there is information on household location in the core data.

Location of residence is available in Wave 1 data for the HRS entry cohort, and in Wave 2A for the AHEAD entry cohort. In Wave 4, the War Babies and Coda cohorts are asked for the location of current residence, as this is their first wave in the study. In Wave 7, the EBB cohorts are asked for location of current residence.

In Wave 2H for HRS cohort there is no question about the current location of residence. The only question asked is whether the household moved to a different residence since the date of the Wave 1 interview.

In Wave 3H and from Wave 4 forward, questions ask if the household is still in the same location as in the previous wave interview, and if not, whether it moved to the same area of that old address. If the household did not stay within the same area, the new location is asked. Wave 3A follows a similar sequence of questions, except that the new location was not asked.

## HRS Variables Used

HRS 1992:	
V53	R:STATE HRS (RECODED)
AHEAD 1993:	
REGION	CENSUS REGION/DIVISION
HRS 1994:	
W100	HHCS5. Is Residence Different?
W200	A1. Marital Status
AHEAD 1995:	
D241	CS12.COUPLE LIVE TOGETHER
D422	CS27. SAME RESIDENCE #1
D423	CS28. SAME AREA - 1
HRS 1996:	

E241	CS12.COUPLE LIVE TOGETHER
E422	CS27. SAME RESIDENCE #1
E423	CS28. SAME AREA - 1
E430M	CS33. REGION CURRENT RESIDENCE
HRS 1998:	
F521	CS12.COUPLE LIVE TOGETHER
F723	CS27. SAME RESIDENCE #1
F724	CS28. SAME AREA - 1
F731M	CS33.CURRENT RESIDENCE - REGION
HRS 2000:	
G562	CS12.COUPLE LIVE TOGETHER
G796	CS27. SAME RESIDENCE #1
G797	CS28. SAME AREA - 1
G805M	CS33.CURRENT RESIDENCE - REGION
HRS 2002:	
HA030	COUPLE LIVE TOGETHER
HA071	SAME RESID AS PREV WAVE #1
HA072	SAME CITY/ST RESID # 1
HA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2004:	
JA030	COUPLE LIVE TOGETHER
JA071	SAME RESID AS PREV WAVE #1
JA072	SAME CITY/ST RESID # 1
JA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2006:	
KA030	COUPLE LIVE TOGETHER
KA071	SAME RESID AS PREV WAVE #1
KA072	SAME CITY/ST RESID # 1
KA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2008:	
LA030	COUPLE LIVE TOGETHER
LA071	SAME RESID AS PREV WAVE #1
LA072	SAME CITY/ST RESID # 1
LA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2010:	
MA030	COUPLE LIVE TOGETHER
MA071	SAME RESID AS PREV WAVE #1
MA072	SAME CITY/ST RESID # 1
MA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2012:	
NA030	COUPLE LIVE TOGETHER
NA071	SAME RESID AS PREV WAVE #1
NA072	SAME CITY/ST RESID # 1
NA076M	CURRENT RESIDENCE STATE - MASKED
HRS 2014:	
OA030	COUPLE LIVE TOGETHER
OA071	SAME RESID AS PREV WAVE #1
OA072	SAME CITY/ST RESID # 1
OA076M	CURRENT RESIDENCE STATE - MASKED
Region:	
REGION92	CENSUS REGION-DIVISION OF RESIDENCE 1992
REGION93	CENSUS REGION-DIVISION OF RESIDENCE 1993
REGION94	CENSUS REGION-DIVISION OF RESIDENCE 1994
REGION95	CENSUS REGION-DIVISION OF RESIDENCE 1995
REGION96	CENSUS REGION-DIVISION OF RESIDENCE 1996
REGION98	CENSUS REGION-DIVISION OF RESIDENCE 1998
REGION00	CENSUS REGION-DIVISION OF RESIDENCE 2000
REGION02	CENSUS REGION-DIVISION OF RESIDENCE 2002
REGION04	CENSUS REGION-DIVISION OF RESIDENCE 2004

REGION06	CENSUS REGION-DIVISION OF RESIDENCE 2006
REGION08	CENSUS REGION-DIVISION OF RESIDENCE 2008
REGION10	CENSUS REGION-DIVISION OF RESIDENCE 2010
REGION12	CENSUS REGION-DIVISION OF RESIDENCE 2012
REGION14	CENSUS REGION-DIVISION OF RESIDENCE 2014

<b>Education: Years of Education</b>
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Wave	Variable Name	Variable Label	Type
1	RAEDYRS	RAEDYRS: R Years of Education	Categ
1	S1EDYRS	S1EDYRS: S Years of Education	Categ
2	S2EDYRS	S2EDYRS: S Years of Education	Categ
3	S3EDYRS	S3EDYRS: S Years of Education	Categ
4	S4EDYRS	S4EDYRS: S Years of Education	Categ
5	S5EDYRS	S5EDYRS: S Years of Education	Categ
6	S6EDYRS	S6EDYRS: S Years of Education	Categ
7	S7EDYRS	S7EDYRS: S Years of Education	Categ
8	S8EDYRS	S8EDYRS: S Years of Education	Categ
9	S9EDYRS	S9EDYRS: S Years of Education	Categ
10	S10EDYRS	S10EDYRS: S Years of Education	Categ
11	S11EDYRS	S11EDYRS: S Years of Education	Categ
12	S12EDYRS	S12EDYRS: S Years of Education	Categ

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAEDYRS	37368	12.05	3.46	0.0	17.0
S1EDYRS	10134	12.07	3.26	0.0	17.0
S2EDYRS	13454	11.84	3.40	0.0	17.0
S3EDYRS	12190	11.95	3.34	0.0	17.0
S4EDYRS	14351	12.21	3.29	0.0	17.0
S5EDYRS	12953	12.29	3.30	0.0	17.0
S6EDYRS	11783	12.39	3.25	0.0	17.0
S7EDYRS	13201	12.60	3.24	0.0	17.0
S8EDYRS	11921	12.68	3.20	0.0	17.0
S9EDYRS	10870	12.76	3.17	0.0	17.0
S10EDYRS	13847	12.81	3.22	0.0	17.0
S11EDYRS	12771	12.84	3.24	0.0	17.0
S12EDYRS	11324	12.92	3.23	0.0	17.0

## Categorical Variable Codes

Value	RAEDYRS
.M=Oth missing	127
0.None	372
1	126
2	198
3	437
4	371
5	409
6	910
7	673
8	1988
9	1370
10	1962
11	1903
12	11740
13	2632
14	3727
15	1374
16	3749
17.17+ yrs	3427

Value	S1EDYRS	S2EDYRS	S3EDYRS	S4EDYRS	S5EDYRS	S6EDYRS	S7EDYRS
.M=Oth missing	1	11	5	3		3	21
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	144	207	138	161	88	73	130
0.None	80	136	118	114	108	93	95
1	22	48	37	43	32	32	32
2	46	58	49	56	47	33	44
3	105	159	131	140	123	107	119
4	84	142	112	118	108	82	76
5	104	161	137	136	124	105	99
6	204	277	248	262	222	190	234
7	153	259	207	202	188	166	162
8	513	847	719	737	630	527	485
9	384	561	481	504	453	395	391
10	578	790	685	755	647	570	577
11	531	688	616	692	618	540	551
12	3646	4691	4302	4946	4407	4054	4354
13	656	840	797	990	903	821	990
14	900	1109	1049	1328	1186	1096	1343
15	315	412	375	503	457	442	531
16	883	1119	1047	1412	1341	1249	1554
17.17+ yrs	930	1157	1080	1413	1359	1281	1564

Value	S8EDYRS	S9EDYRS	S10EDYRS	S11EDYRS	S12EDYRS
.M=Oth missing	25	25	63	62	56
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	106	116	325	247	240
0.None	83	69	91	84	78
1	28	26	34	35	27
2	31	27	61	55	53
3	101	86	114	110	96
4	64	63	80	80	56
5	86	71	87	80	71
6	202	175	304	295	259
7	148	119	134	117	94
8	407	342	333	277	233
9	344	299	356	311	262
10	506	451	506	453	371
11	502	433	577	529	466
12	3915	3587	4317	3929	3438
13	914	847	1089	1039	900
14	1215	1109	1568	1449	1319
15	471	437	612	565	519
16	1432	1340	1865	1747	1615
17.17+ yrs	1472	1389	1719	1616	1467

## How Constructed

The years of education variable is assigned by looking at reports all waves of data and then from the Tracker. The first non-missing value from all waves of data is used. If RAEDYRS is missing, then the non-missing SCHLYRS variable from Tracker file is used.

The spouse variables SwEDYRS and SwEDYRF are taken from the Wave "w" spouse's RAEDYRS and RAEDYRF.

## Cross Wave Differences in Original HRS Data

In Wave 1, years of education is imputed. It is not imputed in any other wave.

## HRS Variables Used

HRS 1992:	
V10207	V207 EDUCATION IMP :IND
V207	A3:HIGHEST EDUCATION:IMP
AHEAD 1993:	
B125	A3. R'S EDUCATION
HRS 1994:	
W221	A13. Highest Education
AHEAD 1995:	
D649	A3. R EDUCATION
HRS 1996:	
E649	A3.R EDUCATION
HRS 1998:	
F987	A3.R EDUCATION
HRS 2000:	
G1074	A3.R EDUCATION
HRS 2002:	
HB014	R HIGHEST LEVEL OF EDUCATION
HRS 2004:	
JB014	R HIGHEST LEVEL OF EDUCATION
HRS 2006:	
KB014	R HIGHEST LEVEL OF EDUCATION
HRS 2008:	
LB014	R HIGHEST LEVEL OF EDUCATION
HRS 2010:	
MB014	R HIGHEST LEVEL OF EDUCATION
HRS 2012:	
NB014	R HIGHEST LEVEL OF EDUCATION
HRS 2014:	
OB014	R HIGHEST LEVEL OF EDUCATION
Tracker:	
SCHLYRS	NUMBER OF YEARS IN SCHOOL

### Education: Degrees, Diplomas

Wave	Variable Name	Variable Label	Type
1	RAEDEGRM	RAEDEGRM: R Highest Degree - masked	Categ
1	S1EDEGRM	S1EDEGRM: S Highest Degree - masked	Categ
2	S2EDEGRM	S2EDEGRM: S Highest Degree - masked	Categ
3	S3EDEGRM	S3EDEGRM: S Highest Degree - masked	Categ
4	S4EDEGRM	S4EDEGRM: S Highest Degree - masked	Categ
5	S5EDEGRM	S5EDEGRM: S Highest Degree - masked	Categ
6	S6EDEGRM	S6EDEGRM: S Highest Degree - masked	Categ
7	S7EDEGRM	S7EDEGRM: S Highest Degree - masked	Categ
8	S8EDEGRM	S8EDEGRM: S Highest Degree - masked	Categ
9	S9EDEGRM	S9EDEGRM: S Highest Degree - masked	Categ
10	S10EDEGRM	S10EDEGRM: S Highest Degree - masked	Categ
11	S11EDEGRM	S11EDEGRM: S Highest Degree - masked	Categ
12	S12EDEGRM	S12EDEGRM: S Highest Degree - masked	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAEDEGRM	37495	2.32	1.91	0.0	8.0
S1EDEGRM	10143	2.28	1.88	0.0	8.0
S2EDEGRM	13465	2.17	1.88	0.0	8.0
S3EDEGRM	12196	2.22	1.88	0.0	8.0
S4EDEGRM	14358	2.39	1.91	0.0	8.0
S5EDEGRM	12955	2.44	1.93	0.0	8.0
S6EDEGRM	11787	2.50	1.93	0.0	8.0
S7EDEGRM	13222	2.64	1.93	0.0	8.0
S8EDEGRM	11946	2.68	1.94	0.0	8.0
S9EDEGRM	10896	2.73	1.94	0.0	8.0
S10EDEGRM	13916	2.77	1.91	0.0	8.0
S11EDEGRM	12836	2.80	1.91	0.0	8.0
S12EDEGRM	11386	2.85	1.91	0.0	8.0



## Categorical Variable Codes

Value	RAEDEGRM
0.No degree	10033
1.GED	1773
2.HS	10699
3.HS/GED	6366
4.AA/ Lt BA	1746
5.BA	4252
6.MA/MBA	2030
7.Law/MD/PhD	575
8.Other	21

Value	S1EDEGRM	S2EDEGRM	S3EDEGRM	S4EDEGRM	S5EDEGRM	S6EDEGRM	S7EDEGRM
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	136	207	137	157	86	72	130
0.No degree	2573	3883	3322	3482	3047	2596	2608
1.GED	531	592	549	651	601	557	604
2.HS	3319	4320	3951	4551	4037	3722	4000
3.HS/GED	1613	2097	1961	2398	2166	1993	2365
4.AA/ Lt BA	363	404	376	535	483	452	611
5.BA	1025	1262	1193	1610	1536	1437	1792
6.MA/MBA	507	648	599	809	783	735	908
7.Law/MD/PhD	204	248	239	315	300	291	331
8.Other	8	11	6	7	2	4	3

Value	S8EDEGRM	S9EDEGRM	S10EDEGRM	S11EDEGRM	S12EDEGRM
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	106	115	319	244	234
0.No degree	2277	1961	2390	2147	1836
1.GED	553	511	723	667	572
2.HS	3585	3271	3910	3572	3125
3.HS/GED	2139	1976	2590	2403	2160
4.AA/ Lt BA	559	514	837	795	722
5.BA	1669	1564	2162	2026	1847
6.MA/MBA	858	813	1034	977	900
7.Law/MD/PhD	302	282	264	245	219
8.Other	4	4	6	4	5

## How Constructed

The highest degree is assigned by looking at reports from Tracker and all waves of data. The first non-missing value is used. If the Respondent reports 12 or fewer years of school, s/he is asked about a HS degree only. If the Respondent reports 13 or more years of school, s/he is asked about college degrees only, and if s/he doesn't have any, the assumption is completion of HS, but the data do not distinguish a diploma from a GED.

The detail of the higher-level degrees varies across waves. RWEDEGRM is recoded to categories that are consistently available across waves. For degrees higher than BA, there are 2 categories: MA/MBA and MD/Law/PhD through Wave 7. In Wave 8, MD/Law/PhD is included in the "other" category, so cannot be identified separately. If a Respondent first responds in Wave 8, then MD/Law/PhD degrees will be coded as "other."

Overlapping categories occur for high school degrees where the information is sometimes incomplete, i.e., 1=GED, 2=HS and 3=HS or GED.

This variable combines the HS degree, any college degree, and highest degree. If it is missing from all waves, RAEDYRS is used to assign degree: 0-11=no degree; 12, 13=HS/GED; 14, 15=AA; 16, 17=BA.

The spouse variables SwEDEGRM and SwEDEGRF are taken from the Wave "w" spouse's RADEGRM and RADEGRF variables.

## Cross Wave Differences in Original HRS Data

The categories for higher level degrees (beyond BA) vary across waves. In Waves 1 and 2H, MA and MBA are coded separately. For Wave 2A, higher level degrees are indicated by two categories: "Advanced degree/non-professional" and "Advanced degree/professional." From Wave 3 forward, the MA and MBA categories were collapsed. In Waves 1, 2, 3H, 4 and 5 Law/MD and PhD are 2 separate categories. In Waves 3A, 6, and 7, these are collapsed into one category, Law/MD/PhD. From Wave 8 and forward, Law/MD and PhD are not identifiable; they are included in the "other" category.

The wording for degrees less than BA changes across waves. In Waves 1 and 2H it is "Associates." In Wave 2A, and from Wave 3 forward, it is "less than Bachelor's."

## HRS Variables Used

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HRS 1992:
V10207      V207 EDUCATION IMP   :IND
V207        A3:HIGHEST EDUCATION:IMP
V208        A3A:HI SCHL DIPLOMA/GED
V210        A3C:COLLEGE DEGREE (Y/N)
V211        A3D:HIGHEST DEGREE

AHEAD 1993:
B125        A3. R'S EDUCATION
B126        A3a. R FINISH HIGH SCHOOL
B128        A3b. R FINISH COLLEGE

HRS 1994:
W221        A13. Highest Education
W222        A13a. HS Diploma/GED
W224        A13c. College Degree
W225        A13d. Highest Degree

AHEAD 1995:
D649        A3. R EDUCATION
D650        A3A.R HIGH SCHOOL
D651        A3B.R COLLEGE
D652M       A3C.R HIGH DEGREE - MASKED
DEGREE      A3c. R'S HIGHEST DEGREE

HRS 1996:
E649        A3.R EDUCATION
E650        A3A.R HIGH SCHOOL
E651        A3B.R COLLEGE
E652M       A3C.R HIGH DEGREE - MASKED

HRS 1998:
F987        A3.R EDUCATION
F988        A3A.R HIGH SCHOOL
F989        A3B.R COLLEGE
F990M       A3C.R HIGH DEGREE - MASKED

HRS 2000:
G1074       A3.R EDUCATION
G1075       A3A.R HIGH SCHOOL
G1076       A3B.R COLLEGE
G1077M      A3C.R HIGH DEGREE - MASKED

HRS 2002:

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HB014	R HIGHEST LEVEL OF EDUCATION
HB015	R EARN HIGH SCHOOL DIPLOMA/GED
HB016	R COLLEGE DEGREE
HB017M	R HIGHEST DEGREE - MASKED
HRS 2004:	
JB014	R HIGHEST LEVEL OF EDUCATION
JB015	R EARN HIGH SCHOOL DIPLOMA/GED
JB016	R COLLEGE DEGREE
JB017M	R HIGHEST DEGREE - MASKED
HRS 2006:	
KB014	R HIGHEST LEVEL OF EDUCATION
KB015	R EARN HIGH SCHOOL DIPLOMA/GED
KB016	R COLLEGE DEGREE
KB017M	R HIGHEST DEGREE - MASKED
HRS 2008:	
LB014	R HIGHEST LEVEL OF EDUCATION
LB015	R EARN HIGH SCHOOL DIPLOMA/GED
LB016	R COLLEGE DEGREE
LB017M	R HIGHEST DEGREE - MASKED
HRS 2010:	
MB014	R HIGHEST LEVEL OF EDUCATION
MB015	R EARN HIGH SCHOOL DIPLOMA/GED
MB016	R COLLEGE DEGREE
MB017M	R HIGHEST DEGREE - MASKED
HRS 2012:	
NB014	R HIGHEST LEVEL OF EDUCATION
NB015	R EARN HIGH SCHOOL DIPLOMA/GED
NB016	R COLLEGE DEGREE
NB017M	R HIGHEST DEGREE - MASKED
HRS 2014:	
OB014	R HIGHEST LEVEL OF EDUCATION
OB015	R EARN HIGH SCHOOL DIPLOMA/GED
OB016	R COLLEGE DEGREE
OB017M	R HIGHEST DEGREE - MASKED
Tracker:	
DEGREE	HIGHEST DEGREE OF EDUCATION

<b>Education: Categorical summary</b>
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Wave	Variable Name	Variable Label	Type
1	RAEDUC	RAEDUC: R education (categ)	Categ
1	S1EDUC	S1EDUC: S education (categ)	Categ
2	S2EDUC	S2EDUC: S education (categ)	Categ
3	S3EDUC	S3EDUC: S education (categ)	Categ
4	S4EDUC	S4EDUC: S education (categ)	Categ
5	S5EDUC	S5EDUC: S education (categ)	Categ
6	S6EDUC	S6EDUC: S education (categ)	Categ
7	S7EDUC	S7EDUC: S education (categ)	Categ
8	S8EDUC	S8EDUC: S education (categ)	Categ
9	S9EDUC	S9EDUC: S education (categ)	Categ
10	S10EDUC	S10EDUC: S education (categ)	Categ
11	S11EDUC	S11EDUC: S education (categ)	Categ
12	S12EDUC	S12EDUC: S education (categ)	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAEDUC	37474	3.00	1.44	1.0	5.0
S1EDUC	10135	2.97	1.39	1.0	5.0
S2EDUC	13454	2.88	1.42	1.0	5.0
S3EDUC	12190	2.93	1.41	1.0	5.0
S4EDUC	14351	3.05	1.41	1.0	5.0
S5EDUC	12953	3.09	1.41	1.0	5.0
S6EDUC	11783	3.14	1.40	1.0	5.0
S7EDUC	13219	3.24	1.38	1.0	5.0
S8EDUC	11942	3.27	1.38	1.0	5.0
S9EDUC	10892	3.31	1.37	1.0	5.0
S10EDUC	13910	3.35	1.36	1.0	5.0
S11EDUC	12832	3.37	1.36	1.0	5.0
S12EDUC	11381	3.40	1.35	1.0	5.0

## Categorical Variable Codes

Value	RAEDUC
.M=Oth missing	21
1.Lt High-school	10033
2.GED	1773
3.High-school graduate	10750
4.Some college	8061
5.College and above	6857

Value	S1EDUC	S2EDUC	S3EDUC	S4EDUC	S5EDUC	S6EDUC	S7EDUC
.M=Oth missing		11	5	3		3	3
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	144	207	138	161	88	73	130
1.Lt High-school	2573	3883	3322	3482	3047	2596	2608
2.GED	531	592	549	651	601	557	604
3.High-school graduate	3347	4349	3976	4575	4059	3740	4018
4.Some college	1948	2472	2312	2909	2627	2427	2958
5.College and above	1736	2158	2031	2734	2619	2463	3031

Value	S8EDUC	S9EDUC	S10EDUC	S11EDUC	S12EDUC
.M=Oth missing	3	3	3	2	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	107	116	322	246	236
1.Lt High-school	2277	1961	2390	2147	1836
2.GED	553	511	723	667	572
3.High-school graduate	3600	3287	3929	3588	3141
4.Some college	2683	2474	3408	3182	2866
5.College and above	2829	2659	3460	3248	2966

## How Constructed

Categorical education recodes the years of education, whether high school degree, and college degrees in a more general way than RAEDEGR. RAEDUC recodes dropouts, HS diplomas, and GEDs directly from RAEDEGR. If the Respondent has a high school diploma or GED and years of education over 12, RAEDUC is set to "some college." RAEDUC is also set to "some college" if the degree is less than a BA, or "other." If the Respondent has exactly 12 years of education but no college degree, then a high school diploma is assumed. If the college degree is a BA or greater, RAEDUC is set to "college and above."

The spouse variable SwEDUC is taken from the Wave "w" spouse's RAEDUC variable.

## Cross Wave Differences in Original HRS Data

The categories for higher level degrees (beyond BA) vary across waves. In Waves 1 and 2H, MA and MBA are coded separately. For Wave 2A, higher level degrees are indicated by two categories: "Advanced degree/non-professional" and "Advanced degree/professional." From Wave 3 forward, the MA and MBA categories were collapsed. In Waves 1, 2, 3H, 4 and 5, Law/MD and PhD are 2 separate categories. For Wave 3A, 6 and 7, these are collapsed into one category, Law/MD/PhD. From Wave 8 and forward, Law/MD and PhD are not identifiable; they are included in the "other" category.

The wording for degrees less than BA changes across waves. In Waves 1 and 2H it is "Associates." For Wave 2A, and from Wave 3 forward, it is "less than Bachelor's."

<b>Parents' Education</b>
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Wave	Variable Name	Variable Label	Type
1	RAMEDUC	RAMEDUC: R Mother's Years Education	Categ
1	S1MEDUC	S1MEDUC: S Mother's Years Education	Categ
2	S2MEDUC	S2MEDUC: S Mother's Years Education	Categ
3	S3MEDUC	S3MEDUC: S Mother's Years Education	Categ
4	S4MEDUC	S4MEDUC: S Mother's Years Education	Categ
5	S5MEDUC	S5MEDUC: S Mother's Years Education	Categ
6	S6MEDUC	S6MEDUC: S Mother's Years Education	Categ
7	S7MEDUC	S7MEDUC: S Mother's Years Education	Categ
8	S8MEDUC	S8MEDUC: S Mother's Years Education	Categ
9	S9MEDUC	S9MEDUC: S Mother's Years Education	Categ
10	S10MEDUC	S10MEDUC: S Mother's Years Education	Categ
11	S11MEDUC	S11MEDUC: S Mother's Years Education	Categ
12	S12MEDUC	S12MEDUC: S Mother's Years Education	Categ
1	RAFEDUC	RAFEDUC: R Father's Years Education	Categ
1	S1FEDUC	S1FEDUC: S Father's Years Education	Categ
2	S2FEDUC	S2FEDUC: S Father's Years Education	Categ
3	S3FEDUC	S3FEDUC: S Father's Years Education	Categ
4	S4FEDUC	S4FEDUC: S Father's Years Education	Categ
5	S5FEDUC	S5FEDUC: S Father's Years Education	Categ
6	S6FEDUC	S6FEDUC: S Father's Years Education	Categ
7	S7FEDUC	S7FEDUC: S Father's Years Education	Categ
8	S8FEDUC	S8FEDUC: S Father's Years Education	Categ
9	S9FEDUC	S9FEDUC: S Father's Years Education	Categ
10	S10FEDUC	S10FEDUC: S Father's Years Education	Categ
11	S11FEDUC	S11FEDUC: S Father's Years Education	Categ
12	S12FEDUC	S12FEDUC: S Father's Years Education	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAMEDUC	33158	9.34	3.55	0.0	17.0
S1MEDUC	9214	9.28	3.61	0.0	17.0
S2MEDUC	12150	8.91	3.06	0.0	17.0
S3MEDUC	11066	8.97	3.12	0.0	17.0
S4MEDUC	12893	9.26	3.33	0.0	17.0
S5MEDUC	11678	9.34	3.40	0.0	17.0
S6MEDUC	10630	9.43	3.44	0.0	17.0
S7MEDUC	11986	9.70	3.58	0.0	17.0
S8MEDUC	10843	9.78	3.59	0.0	17.0
S9MEDUC	9940	9.85	3.62	0.0	17.0
S10MEDUC	12731	9.97	3.90	0.0	17.0
S11MEDUC	11769	9.98	3.96	0.0	17.0
S12MEDUC	10472	10.02	3.99	0.0	17.0
RAFEDUC	31124	9.11	3.79	0.0	17.0
S1FEDUC	8949	8.98	3.96	0.0	17.0
S2FEDUC	11896	8.69	3.31	0.0	17.0
S3FEDUC	10823	8.75	3.37	0.0	17.0
S4FEDUC	12369	8.96	3.63	0.0	17.0
S5FEDUC	11199	9.02	3.71	0.0	17.0
S6FEDUC	10170	9.13	3.75	0.0	17.0

S7FEDUC	11380	9.40	3.91	0.0	17.0
S8FEDUC	10301	9.50	3.91	0.0	17.0
S9FEDUC	9425	9.56	3.93	0.0	17.0
S10FEDUC	11860	9.76	4.18	0.0	17.0
S11FEDUC	10960	9.78	4.23	0.0	17.0
S12FEDUC	9736	9.91	4.24	0.0	17.0

## Categorical Variable Codes

Value	RAMEDUC
.D=DK	4111
.M=Oth missing	215
.R=RF	11
0.None	1219
1	127
2	231
3	616
4	615
5	677
6	1725
7	796
7.5.Lt 8 yrs	3375
8	3950
8.5.8+ yrs	3848
9	947
10	1584
11	969
12	8800
13	564
14	1137
15	228
16	1301
17.17+ yrs	449

Value	S1MEDUC	S2MEDUC	S3MEDUC	S4MEDUC	S5MEDUC	S6MEDUC	S7MEDUC
.D=DK	878	1182	1014	1342	1172	1058	1136
.M=Oth missing	9	97	111	116	100	94	98
.R=RF	1	1	1	4	3	3	2
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	178	242	141	160	88	74	130
0.None	327	297	281	363	341	316	391
1	35	29	28	36	35	34	38
2	63	58	56	70	67	65	82
3	207	190	176	224	215	190	231
4	267	239	214	263	251	226	244
5	274	251	230	272	252	226	246
6	726	640	596	722	683	624	687
7	341	308	283	346	316	292	293
7.5.Lt 8 yrs	35	1700	1356	1018	743	543	388
8	1951	1774	1654	2104	1962	1833	1901
8.5.8+ yrs	81	2201	1955	1580	1212	927	731
9	365	329	316	384	354	342	387
10	637	560	539	670	628	608	678
11	331	299	274	366	352	340	396
12	2602	2378	2232	3180	3019	2864	3753
13	156	141	132	224	215	202	243
14	344	319	314	450	433	418	509
15	55	53	54	70	65	62	88
16	318	294	286	430	414	396	531
17.17+ yrs	99	90	90	121	121	122	169
Value	S8MEDUC	S9MEDUC	S10MEDUC	S11MEDUC	S12MEDUC		

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.D=DK		1009	868	1094	986	840
.M=Oth missing		91	82	87	75	69
.R=RF		2	2	3	2	2
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		107	119	320	248	237
0.None		349	325	578	566	520
1		33	28	67	67	58
2		76	69	121	114	110
3		214	200	259	253	221
4		222	203	249	228	197
5		213	195	243	215	194
6		618	571	740	693	611
7		263	240	278	259	224
7.5.Lt 8 yrs		272	196	112	75	42
8		1725	1586	1664	1496	1288
8.5.8+ yrs		533	381	250	166	107
9		363	335	423	378	324
10		626	581	706	662	603
11		375	350	477	445	399
12		3518	3302	4559	4263	3862
13		235	221	291	272	231
14		473	454	613	570	511
15		83	83	121	110	105
16		497	471	726	705	654
17.17+ yrs		155	149	254	232	211

Value	RAFEDUC
.D=DK	4778
.M=Oth missing	1581
.R=RF	12
0.None	1198
1	125
2	292
3	850
4	744
5	834
6	1861
7	766
7.5.Lt 8 yrs	3638
8	3947
8.5.8+ yrs	3572
9	866
10	1326
11	677
12	6437
13	450
14	864
15	233
16	1489
17.17+ yrs	955



Value	S1FEDUC	S2FEDUC	S3FEDUC	S4FEDUC	S5FEDUC	S6FEDUC	S7FEDUC
.D=DK	1132	1425	1244	1566	1378	1251	1352
.M=Oth missing	11	99	116	401	370	354	474
.R=RF				3	3	3	5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	187	252	150	176	91	81	141
0.None	387	357	313	417	392	346	403
1	45	40	37	39	44	39	49
2	98	85	79	108	95	80	106
3	307	273	258	344	323	290	335
4	325	296	289	342	326	308	322
5	357	317	297	371	352	326	350
6	765	678	640	787	737	689	764
7	327	291	267	330	305	280	308
7.5.Lt 8 yrs	34	1866	1516	1155	833	626	458
8	1898	1735	1611	2046	1910	1795	1926
8.5.8+ yrs	74	2016	1771	1410	1105	828	643
9	350	316	302	373	348	335	373
10	553	494	470	582	559	526	602
11	246	226	210	267	254	231	273
12	2117	1922	1809	2428	2308	2194	2779
13	109	108	106	163	157	153	219
14	256	239	225	326	317	317	363
15	70	66	60	92	90	87	99
16	379	345	331	462	426	417	608
17.17+ yrs	252	226	232	327	318	303	400
Value	S8FEDUC	S9FEDUC	S10FEDUC	S11FEDUC	S12FEDUC		
.D=DK	1197	1047	1369	1239	1068		
.M=Oth missing	439	406	664	613	566		
.R=RF	5	4	5	3	3		
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	110	129	337	265	247		
0.None	354	318	517	504	436		
1	42	42	67	67	52		
2	93	82	122	119	109		
3	303	277	362	340	295		
4	296	272	305	269	227		
5	305	290	339	304	262		
6	685	632	825	773	675		
7	274	245	278	261	229		
7.5.Lt 8 yrs	335	245	140	92	52		
8	1794	1643	1812	1644	1412		
8.5.8+ yrs	462	331	219	146	95		
9	333	314	396	359	301		
10	551	519	647	605	547		
11	265	249	334	315	305		
12	2645	2499	3335	3123	2836		
13	206	192	248	239	209		
14	347	316	441	401	387		
15	97	95	131	121	114		
16	547	519	808	771	712		
17.17+ yrs	367	345	534	507	481		

## How Constructed

These variables are assigned by looking at all waves of data for the first non-missing values. In Wave 1 and from Wave 4 forward, a question asks for the [father's/mother's] years of education. Wave 2H does not ask the question at all. In Wave 3H and in Waves 2A and 3A of the AHEAD sample, the question asks if [he/she] attended school for 8 or more years.

Wave 1 or Waves 4 and after, are used first, if not missing. If only Wave 3H data are available or for the AHEAD sample—Waves 2A and 3A, 7.5 years is assigned if less than 8 years, and 8.5 is assigned if 8 or more.

The spouse variables SwFEDUC and SwMEDUC are taken from the spouse's Wave "w" RAFEDUC and RAMEDUC variables, respectively.

### Cross Wave Differences in Original HRS Data

In Wave 1 the question is: "What is the highest grade of school your father completed?" Answers are given in years of school, 0-17.

In Wave 2H, the question is not asked at all.

In Wave 3H, and for the AHEAD sample, Waves 2A and 3A, the question is: "Did your father/mother attend 8 years or more of school?" and the possible answers are "yes" and "no."

From Wave 4 forward, the question is similar to the Wave 1 wording: "And what is the highest grade of school your father/mother completed?" with possible answers ranging from 0-17.

### HRS Variables Used

HRS 1992:	
V212	A4:MOTHER-HIGHEST GRADE
V213	A5:FATHER-HIGHEST GRADE
AHEAD 1993:	
B130	A4. MOTHER IN SCHOOL 8/+ YEARS
B131	A5. FATHER IN SCHOOL 8/+ YEARS
AHEAD 1995:	
D654	A4.MA EDUC
D655	A5.PA EDUC
HRS 1996:	
E654	A4.MOTHER EDUC
E655	A5.FATHER EDUC
HRS 1998:	
F1000	A5.PA EDUC
F1001	A6.MA EDUC
HRS 2000:	
G1087	A5.PA EDUC
G1088	A6.MA EDUC
HRS 2002:	
HB026	FATHER EDUCATION- HIGHEST GRADE
HB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2004:	
JB026	FATHER EDUCATION- HIGHEST GRADE
JB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2006:	
KB026	FATHER EDUCATION- HIGHEST GRADE
KB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2008:	
LB026	FATHER EDUCATION- HIGHEST GRADE
LB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2010:	
MB026	FATHER EDUCATION- HIGHEST GRADE
MB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2012:	
NB026	FATHER EDUCATION- HIGHEST GRADE

NB027	MOTHER EDUCATION- HIGHEST GRADE
HRS 2014:	
OB026	FATHER EDUCATION- HIGHEST GRADE
OB027	MOTHER EDUCATION- HIGHEST GRADE

### Current Marital Status: With partnership

Wave	Variable Name	Variable Label	Type
1	R1MSTAT	R1MSTAT:W1 R Marital Status	Categ
2	R2MSTAT	R2MSTAT:W2 R Marital Status	Categ
3	R3MSTAT	R3MSTAT:W3 R Marital Status	Categ
4	R4MSTAT	R4MSTAT:W4 R Marital Status	Categ
5	R5MSTAT	R5MSTAT:W5 R Marital Status	Categ
6	R6MSTAT	R6MSTAT:W6 R Marital Status	Categ
7	R7MSTAT	R7MSTAT:W7 R Marital Status	Categ
8	R8MSTAT	R8MSTAT:W8 R Marital Status	Categ
9	R9MSTAT	R9MSTAT:W9 R Marital Status	Categ
10	R10MSTAT	R10MSTAT:W10 R Marital Status	Categ
11	R11MSTAT	R11MSTAT:W11 R Marital Status	Categ
12	R12MSTAT	R12MSTAT:W12 R Marital Status	Categ
1	S1MSTAT	S1MSTAT:W1 S Marital Status	Categ
2	S2MSTAT	S2MSTAT:W2 S Marital Status	Categ
3	S3MSTAT	S3MSTAT:W3 S Marital Status	Categ
4	S4MSTAT	S4MSTAT:W4 S Marital Status	Categ
5	S5MSTAT	S5MSTAT:W5 S Marital Status	Categ
6	S6MSTAT	S6MSTAT:W6 S Marital Status	Categ
7	S7MSTAT	S7MSTAT:W7 S Marital Status	Categ
8	S8MSTAT	S8MSTAT:W8 S Marital Status	Categ
9	S9MSTAT	S9MSTAT:W9 S Marital Status	Categ
10	S10MSTAT	S10MSTAT:W10 S Marital Status	Categ
11	S11MSTAT	S11MSTAT:W11 S Marital Status	Categ
12	S12MSTAT	S12MSTAT:W12 S Marital Status	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MSTAT	12652	1.98	1.98	1.0	8.0
R2MSTAT	19642	2.74	2.61	1.0	8.0
R3MSTAT	17928	2.87	2.69	1.0	8.0
R4MSTAT	21360	2.80	2.60	1.0	8.0
R5MSTAT	19559	2.88	2.63	1.0	8.0
R6MSTAT	18150	2.95	2.65	1.0	8.0
R7MSTAT	20114	2.89	2.61	1.0	8.0
R8MSTAT	18467	2.96	2.63	1.0	8.0
R9MSTAT	17215	3.03	2.65	1.0	8.0
R10MSTAT	22028	3.00	2.60	1.0	8.0
R11MSTAT	20551	3.05	2.62	1.0	8.0
R12MSTAT	18744	3.14	2.64	1.0	8.0
S1MSTAT	9900	1.08	0.38	1.0	3.0
S2MSTAT	13088	1.07	0.41	1.0	8.0
S3MSTAT	11915	1.06	0.35	1.0	6.0
S4MSTAT	13978	1.08	0.37	1.0	3.0
S5MSTAT	12730	1.08	0.39	1.0	3.0
S6MSTAT	11639	1.08	0.39	1.0	5.0
S7MSTAT	12972	1.10	0.43	1.0	5.0
S8MSTAT	11735	1.11	0.44	1.0	7.0
S9MSTAT	10646	1.11	0.46	1.0	8.0
S10MSTAT	13513	1.17	0.55	1.0	8.0
S11MSTAT	12488	1.18	0.56	1.0	7.0
S12MSTAT	11027	1.18	0.57	1.0	8.0

## Categorical Variable Codes

Value	R1MSTAT	R2MSTAT	R3MSTAT	R4MSTAT	R5MSTAT	R6MSTAT	R7MSTAT
.M=Oth missing			63	24	20	15	15
1.Married	9837	13148	11792	13820	12368	11243	12515
2.Married, spouse absent	57	117	155	144	153	166	187
3.Partnered	385	359	380	551	520	450	650
4.Separated	310	278		331	282	259	323
5.Divorced	1080	1005		1711	1598	1523	1859
6.Separated/divorced		402	1537		1	1	
7.Widowed	621	3764	3590	4199	4094	4030	3949
8.Never married	362	569	474	604	543	478	631

Value	R8MSTAT	R9MSTAT	R10MSTAT	R11MSTAT	R12MSTAT
.M=Oth missing	2	2	6	3	3
1.Married	11273	10273	12772	11753	10456
2.Married, spouse absent	161	140	296	212	165
3.Partnered	618	598	1167	1115	999
4.Separated	277	277	464	444	434
5.Divorced	1741	1682	2501	2364	2187
6.Separated/divorced	8	6	17	13	17
7.Widowed	3843	3726	3733	3644	3573
8.Never married	546	513	1078	1006	913

Value	S1MSTAT	S2MSTAT	S3MSTAT	S4MSTAT	S5MSTAT	S6MSTAT	S7MSTAT
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Married	9492	12701	11484	13373	12124	11075	12219
2.Married, spouse absent	42	22	124	124	141	152	168
3.Partnered	366	321	301	481	465	405	581
4.Separated		18				6	3
5.Divorced		11				1	1
6.Separated/divorced			6				
7.Widowed		7					
8.Never married		8					

Value	S8MSTAT	S9MSTAT	S10MSTAT	S11MSTAT	S12MSTAT
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Married	11027	9993	12218	11309	9992
2.Married, spouse absent	152	123	256	180	136
3.Partnered	553	524	1034	987	884
4.Separated	2	2	2	7	10
5.Divorced			1	2	3
7.Widowed	1	3	1	3	1
8.Never married		1	1		1

## How Constructed

This variable is created using current marital status reported for each wave. For Wave 3A of AHEAD, and from Wave 4 forward, a cleaned version of marital status is used, which fills missing marital status using cover sheet data and marital events reported between interviews.

The codes for separation and divorce are combined in Waves 2A, 3A, and 3H; a separate category is used for this ambiguous state. For all waves, RwmSTAT combines "Married, spouse absent" as one category, rather than separating spouse in institution vs. not. HRS Wave 1 imputations are not used at all.

From Wave 7 and forward, some cases report a marital status of annulled, which is treated the same as never married.

The RwmSTAT variables code partnerships, which override the actual marital status that is available for most cases from Wave 4 forward. Some cases report an unmarried status, but have a partner in the same household, particularly in Wave 2. RwmSTAT retains the reported unmarried status. RwmPART indicates the presence of a partner regardless of the RwmSTAT code. Please see RwmPART description for details.

The RwmSTATH variables do not code partnerships, and actual marital status replaces the partnership code if it can be determined. Please see the description of RwmSTATH variables for details.

The spouse variable SwmSTAT is taken from the spouse's data for Wave 'w.' It is set to .U if Respondent is unmarried or unpartnered or .V if the Respondent's spouse or partner did not respond in a given wave.

There are four individuals where discrepancies in reported marital status and partnership were found. These are resolved, and RwmSTAT and RwmPART are set based on examination of all available data for the individuals and their spouse/partners from all waves.

### **Cross Wave Differences in Original HRS Data**

The asking and coding of marital status differs from wave to wave. In Waves 1 and 2H Respondents are specifically asked their marital status as married, partnered, separated, divorced, widowed or never married. The marital status in the public use data also includes a "Married, spouse absent" status that is split between those whose spouse is in a nursing home, and whose spouse is not institutionalized. In Wave 2A, a single item is used to assess marital status. Response categories include married (spouse present), married (spouse absent), living with someone, separated/divorced, widowed, and never married. The separated and divorced categories are not coded separately.

In Wave 3H, the Respondent is not asked marital status; it is derived from preloaded marital status, and a series of questions in the Cover Sheet section. There is a "corrected" marital status included in the Wave 3H public use data. In addition, the separated and divorced statuses are not coded separately. In Waves 1, 2, and 3H, partnership overrides any other marital status. Marital status in Wave 3A is also derived using questions from the cover sheet section. The separated and divorced statuses are in a single category, and partnership overrides any other marital status.

Beginning in Wave 4, all partnered and unmarried single Respondents are asked marital status. Through Wave 6, the status must be an unmarried status, treating separated as an unmarried category apart from divorced. Beginning in Wave 7, both married and annulled may be coded, in addition to the unmarried statuses allowed in prior waves. Marital status in the raw data is set to married or separated for Respondents determined to have these statuses from cover sheet section questions. There is no distinction made between spouse present and spouse absent in the raw marital status variable, but this information is available from other questions in the cover sheet section.

The cover sheet section sequence of questions that lead to a marital status and determination of "coupleness," are included in the data starting in Wave 3. These questions are examined to help set the cleaned marital status used in deriving RwmSTAT.

Respondents who have an unmarried to married transition between interviews, or vice versa, are asked about marriages and ends of marriages (divorce or widowhood) that may have occurred between interviews at all waves after the initial interview in which a Respondent appears.

From Wave 4 forward, some partners appear to have married based on these reported marital transitions. These cases often report "other" in response to the question about specific unmarried status; note that "married" is not allowed in response to this question in Waves 4 to 6. Cases with both a reported marital event and a report of "other" marital status are

set to married in the cleaned versions of marital status used in deriving RwmSTAT.

## HRS Variables Used

HRS 1992:	
V10225	A10:CURRENT MAR STAT:IND
V225	A10:CURRENT MARR STA:IMP
AHEAD 1993:	
B150	A11. R'S MARITAL STATUS
HRS 1994:	
W200	A1. Marital Status
AHEAD 1995:	
D226	CS4.R SAME SP/P
D227	CS5.SP/P ALIVE
D240	CS11.R-WHERE LIVE
D241	CS12.COUPLE LIVE TOGETHER
DMSTATR	HRS 95: Marital Status (w/ partnered)
HRS 1996:	
E256A	MARRIAGE STATUS - CORRECTED
HRS 1998:	
F1059	A40.POST W1 MARRIAGE START
F1066	A41.POST W1 DIV/WIDOWED
F1070	A43.MARITAL STATUS IF UNMARRIED
F1071	A43A.MARITAL STATUS, ASSIGNED
F461	PRELOAD COHORT
F462	PRELOAD MARITAL STATUS
F475	WHICH IW 1ST R/2ND R
F502	CS4.1ST R SAME SPOUSE/P
F504	CS5.PRELOAD SPOUSE/P ALIVE
F507	CS7.1ST R MARRIED
F508	CS8.COUPLE PARTNER
F517	CS11.R IN NURSING HOME
F521	CS12.COUPLE LIVE TOGETHER
F524	CS14.SP/P WHERE LIVE
F528	CS15A.MARRIED OR SEPARATED
F529	CS15B.SEPARATED:PARTNERED?
F546	CS15D.CURRENT COUPLENESS
FMARSTP	HRS 98: Marital Status (w/ partnered)
HRS 2000:	
G1146	A40.POST W1 MARRIAGE START
G1153	A41.POST W1 DIV/WIDOWED
G1158	A43A.MARITAL STATUS_ASSIGNED
G482	CS0Y9.PRELOAD ENTRY COHORT
G506	CS0Y21.WHICH IW 1ST R/2ND R
G543	CS4.1ST R SAME SPOUSE/P
G545	CS5.PRELOAD SPOUSE/P ALIVE
G548	CS7.1ST R MARRIED
G549	CS8.COUPLE PARTNER
G558	CS11.R IN NURSING HOME
G562	CS12.COUPLE LIVE TOGETHER
G569	CS15A.MARRIED OR SEPARATED
G570	CS15B.SEPARATED:PARTNERED?
G597	CS15D.CURRENT COUPLENESS
GMARSTP	HRS 00: Marital Status (w/ partnered)
HRS 2002:	
HA020	1ST R SAME SP/P
HA023	PREVIOUS WAVE SP/P ALIVE
HA026	R MARRIED

HA027	LIVING W/P
HA028	R IN NURSING HOME
HA030	COUPLE LIVE TOGETHER
HA033	SP/P IN NURSHOME
HA034	MARRIED OR SEPARATED
HA035	SEPARATED/PARTNERED
HB055	NEW MARRIAGE SINCE PREVIOUS WAVE
HB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
HB061	MARITAL STATUS IF UNMARRIED
HMARITAL	MARITAL STATUS
HMARSTP	HRS 02: Marital Status (w/ partnered)
HX065_R	COUPLENESS STATUS - UPDATED
HZ023	WHICH COHORT
HRS 2004:	
JA020	1ST R SAME SP/P
JA023	PREVIOUS WAVE SP/P ALIVE
JA026	R MARRIED
JA027	LIVING W/P
JA028	R IN NURSING HOME
JA030	COUPLE LIVE TOGETHER
JA033	SP/P IN NURSHOME
JA034	MARRIED OR SEPARATED
JA035	SEPARATED/PARTNERED
JB055	NEW MARRIAGE SINCE PREVIOUS WAVE
JB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
JB061	MARITAL STATUS IF UNMARRIED
JB063	MARITAL STATUS ASSIGNED
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
JX065_R	COUPLENESS STATUS - UPDATED
JZ023	WHICH COHORT
HRS 2006:	
KA020	1ST R SAME SP/P
KA023	PREVIOUS WAVE SP/P ALIVE
KA026	R MARRIED
KA027	LIVING W/P
KA028	R IN NURSING HOME
KA030	COUPLE LIVE TOGETHER
KA033	SP/P IN NURSHOME
KA034	MARRIED OR SEPARATED
KA035	SEPARATED/PARTNERED
KB055	NEW MARRIAGE SINCE PREVIOUS WAVE
KB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
KB061	MARITAL STATUS IF UNMARRIED
KB063	MARITAL STATUS ASSIGNED
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
KX065_R	COUPLENESS STATUS - UPDATED
KZ023	WHICH COHORT
HRS 2008:	
LA020	1ST R SAME SP/P
LA023	PREVIOUS WAVE SP/P ALIVE
LA026	R MARRIED
LA027	LIVING W/P
LA028	R IN NURSING HOME
LA030	COUPLE LIVE TOGETHER
LA033	SP/P IN NURSHOME
LA034	MARRIED OR SEPARATED
LA035	SEPARATED/PARTNERED
LB055	NEW MARRIAGE SINCE PREVIOUS WAVE
LB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE



LB061	MARITAL STATUS IF UNMARRIED
LB063	MARITAL STATUS ASSIGNED
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
LX065_R	COUPLENES STATUS - UPDATED
LZ023	PREV WAVE WHICH COHORT
HRS 2010:	
MA020	1ST R SAME SP/P
MA023	PREVIOUS WAVE SP/P ALIVE
MA026	R MARRIED
MA027	LIVING W/P
MA028	R IN NURSING HOME
MA030	COUPLE LIVE TOGETHER
MA033	SP/P IN NURSHOME
MA034	MARRIED OR SEPARATED
MA035	SEPARATED/PARTNERED
MB055	NEW MARRIAGE SINCE PREVIOUS WAVE
MB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
MB061	MARITAL STATUS IF UNMARRIED
MB063	MARITAL STATUS ASSIGNED
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
MX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
MZ023	PREV WAVE WHICH COHORT -1
HRS 2012:	
NA020	1ST R SAME SP/P
NA023	PREVIOUS WAVE SP/P ALIVE
NA026	R MARRIED
NA027	LIVING W/P
NA028	R IN NURSING HOME
NA030	COUPLE LIVE TOGETHER
NA033	SP/P IN NURSHOME
NA034	MARRIED OR SEPARATED
NA035	SEPARATED/PARTNERED
NB055	NEW MARRIAGE SINCE PREVIOUS WAVE
NB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
NB061	MARITAL STATUS IF UNMARRIED
NB063	MARITAL STATUS ASSIGNED
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
NX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
NZ023	PREV WAVE WHICH COHORT
HRS 2014:	
OA020	1ST R SAME SP/P
OA023	PREVIOUS WAVE SP/P ALIVE
OA026	R MARRIED
OA027	LIVING W/P
OA028	R IN NURSING HOME
OA030	COUPLE LIVE TOGETHER
OA033	SP/P IN NURSHOME
OA034	MARRIED OR SEPARATED
OA035	SEPARATED/PARTNERED
OB055	NEW MARRIAGE SINCE PREVIOUS WAVE
OB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
OB061	MARITAL STATUS IF UNMARRIED
OB063	MARITAL STATUS ASSIGNED
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
OZ023	PREV WAVE WHICH COHORT
Tracker:	
ASUBHH	1992 SUB-HOUSEHOLD IDENTIFIER
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER

CSUBHH	1994	SUB-HOUSEHOLD	IDENTIFIER
DSUBHH	1995	SUB-HOUSEHOLD	IDENTIFIER
ESUBHH	1996	SUB-HOUSEHOLD	IDENTIFIER
FSUBHH	1998	SUB-HOUSEHOLD	IDENTIFIER
GSUBHH	2000	SUB-HOUSEHOLD	IDENTIFIER
HHID		HOUSEHOLD	IDENTIFIER
HSUBHH	2002	SUB-HOUSEHOLD	IDENTIFIER
JSUBHH	2004	SUB-HOUSEHOLD	IDENTIFIER
KSUBHH	2006	SUB-HOUSEHOLD	IDENTIFIER
LSUBHH	2008	SUB-HOUSEHOLD	IDENTIFIER
MSUBHH	2010	SUB-HOUSEHOLD	IDENTIFIER
NSUBHH	2012	SUB-HOUSEHOLD	IDENTIFIER
OSUBHH	2014	SUB-HOUSEHOLD	IDENTIFIER

<b>Current Marital Status: Current Partnership Status</b>
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Wave	Variable Name	Variable Label	Type
1	R1MPART	R1MPART:W1 R partnered	Categ
2	R2MPART	R2MPART:W2 R partnered	Categ
3	R3MPART	R3MPART:W3 R partnered	Categ
4	R4MPART	R4MPART:W4 R partnered	Categ
5	R5MPART	R5MPART:W5 R partnered	Categ
6	R6MPART	R6MPART:W6 R partnered	Categ
7	R7MPART	R7MPART:W7 R partnered	Categ
8	R8MPART	R8MPART:W8 R partnered	Categ
9	R9MPART	R9MPART:W9 R partnered	Categ
10	R10MPART	R10MPART:W10 R partnered	Categ
11	R11MPART	R11MPART:W11 R partnered	Categ
12	R12MPART	R12MPART:W12 R partnered	Categ
1	S1MPART	S1MPART:W1 S partnered	Categ
2	S2MPART	S2MPART:W2 S partnered	Categ
3	S3MPART	S3MPART:W3 S partnered	Categ
4	S4MPART	S4MPART:W4 S partnered	Categ
5	S5MPART	S5MPART:W5 S partnered	Categ
6	S6MPART	S6MPART:W6 S partnered	Categ
7	S7MPART	S7MPART:W7 S partnered	Categ
8	S8MPART	S8MPART:W8 S partnered	Categ
9	S9MPART	S9MPART:W9 S partnered	Categ
10	S10MPART	S10MPART:W10 S partnered	Categ
11	S11MPART	S11MPART:W11 S partnered	Categ
12	S12MPART	S12MPART:W12 S partnered	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MPART	12652	0.03	0.17	0.0	1.0
R2MPART	19642	0.02	0.14	0.0	1.0
R3MPART	17991	0.02	0.14	0.0	1.0
R4MPART	21384	0.03	0.16	0.0	1.0
R5MPART	19579	0.03	0.16	0.0	1.0
R6MPART	18165	0.02	0.16	0.0	1.0
R7MPART	20129	0.03	0.18	0.0	1.0
R8MPART	18469	0.03	0.18	0.0	1.0
R9MPART	17217	0.03	0.18	0.0	1.0
R10MPART	22034	0.05	0.22	0.0	1.0
R11MPART	20554	0.05	0.23	0.0	1.0
R12MPART	18747	0.05	0.22	0.0	1.0
S1MPART	9900	0.04	0.19	0.0	1.0
S2MPART	13088	0.03	0.16	0.0	1.0
S3MPART	11915	0.03	0.16	0.0	1.0
S4MPART	13978	0.03	0.18	0.0	1.0
S5MPART	12730	0.04	0.19	0.0	1.0
S6MPART	11639	0.03	0.18	0.0	1.0
S7MPART	12972	0.04	0.21	0.0	1.0
S8MPART	11735	0.05	0.21	0.0	1.0
S9MPART	10646	0.05	0.22	0.0	1.0
S10MPART	13513	0.08	0.27	0.0	1.0
S11MPART	12488	0.08	0.27	0.0	1.0
S12MPART	11027	0.08	0.27	0.0	1.0

## Categorical Variable Codes

Value	R1MPART	R2MPART	R3MPART	R4MPART	R5MPART	R6MPART	R7MPART
0.No	12267	19234	17605	20833	19059	17715	19479
1.Yes	385	408	386	551	520	450	650

Value	R8MPART	R9MPART	R10MPART	R11MPART	R12MPART
0.No	17851	16619	20867	19439	17748
1.Yes	618	598	1167	1115	999

Value	S1MPART	S2MPART	S3MPART	S4MPART	S5MPART	S6MPART	S7MPART
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9534	12723	11608	13497	12265	11234	12391
1.Yes	366	365	307	481	465	405	581

Value	S8MPART	S9MPART	S10MPART	S11MPART	S12MPART
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11182	10122	12479	11501	10143
1.Yes	553	524	1034	987	884

## How Constructed

Marital status `RwMSTAT` indicates partnership; that is, living with a partner who is not the Respondent's spouse. In addition, some cases report an unmarried status, but have a partner in the same household. Another living individual with the same HHID and sub-household ID on the Tracker file, or in the core data, indicates the presence of a partner when the Respondent gives an unmarried status. From Wave 4 forward, the "coupleness" code in the cover sheet section can also indicate a partnership. `RwMPART` indicates the presence of a partner regardless of the `RwMSTAT` code.

The spouse variable `SwMPART` is taken from the spouse's data for Wave 'w.' In some cases, the spouse and Respondent disagree as to whether they are married or partnered, so `RwMPART` and `SwMPART` are not always the same in a given wave. `SwMPART` is set to .U if the Respondent is unmarried and unpartnered or .V if the Respondent's spouse or partner did not respond in a given wave.

## Cross Wave Differences in Original HRS Data

Partnership is indicated by a marital status code in Waves 1 to 3H. From Wave 4 forward, it is indicated by a separate cover sheet section variable.

Partnership can also be indicated by a non-married status when the household is a couple, rather than single in any wave.

Beginning with Tracker 2002.V2 the surviving spouse sometimes retains the spouse PN of the deceased Respondent. In previous versions of Tracker this was not the case.

**HRS Variables Used**

HRS 1992:	
V10225	A10:CURRENT MAR STAT:IND
V225	A10:CURRENT MARR STA:IMP
AHEAD 1993:	
B150	A11. R'S MARITAL STATUS
HRS 1994:	
W200	A1. Marital Status
AHEAD 1995:	
DMSTATR	HRS 95: Marital Status (w/ partnered)
HRS 1996:	
E256A	MARRIAGE STATUS - CORRECTED
HRS 1998:	
F1071	A43A.MARITAL STATUS, ASSIGNED
F546	CS15D.CURRENT COUPLENESS
FMARSTP	HRS 98: Marital Status (w/ partnered)
HRS 2000:	
G1158	A43A.MARITAL STATUS_ASSIGNED
G597	CS15D.CURRENT COUPLENESS
GMARSTP	HRS 00: Marital Status (w/ partnered)
HRS 2002:	
HMARITAL	MARITAL STATUS
HMARSTP	HRS 02: Marital Status (w/ partnered)
HPN_SP	2002 SPOUSE/PARTNER PERSON NUMBER
HSUBHH	HRS 2002 SUB-HOUSEHOLD ID (Char)
HX065_R	COUPLENESS STATUS - UPDATED
HRS 2004:	
JPN_SP	2004 SPOUSE/PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
JX065_R	COUPLENESS STATUS - UPDATED
HRS 2006:	
KPN_SP	2006 SPOUSE/PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
KX065_R	COUPLENESS STATUS - UPDATED
HRS 2008:	
LPN_SP	2008 SPOUSE/PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
LX065_R	COUPLENESS STATUS - UPDATED
HRS 2010:	
MPN_SP	2010 SPOUSE/PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
MX065_R	COUPLENESS STATUS OF INDIVIDUAL-UPDATED
HRS 2012:	
NPN_SP	2012 SPOUSE/PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
NX065_R	COUPLENESS STATUS OF INDIVIDUAL-UPDATED
HRS 2014:	
OPN_SP	2014 SPOUSE/PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OX065_R	COUPLENESS STATUS OF INDIVIDUAL-UPDATED
Tracker:	
APPN	1992 SPOUSE-PARTNER PERSON NUMBER
ASUBHH	1992 SUB-HOUSEHOLD IDENTIFIER
BPPN	1993 SPOUSE-PARTNER PERSON NUMBER
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CALIVE	1994 VITAL STATUS
CPPN	1994 SPOUSE-PARTNER PERSON NUMBER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
DALIVE	1995 VITAL STATUS

DPPN	1995 SPOUSE-PARTNER PERSON NUMBER
DSUBHH	1995 SUB-HOUSEHOLD IDENTIFIER
EALIVE	1996 VITAL STATUS
EPPN	1996 SPOUSE-PARTNER PERSON NUMBER
ESUBHH	1996 SUB-HOUSEHOLD IDENTIFIER
FALIVE	1998 VITAL STATUS
FPPN	1998 SPOUSE-PARTNER PERSON NUMBER
FSUBHH	1998 SUB-HOUSEHOLD IDENTIFIER
GALIVE	2000 VITAL STATUS
GPPN	2000 SPOUSE-PARTNER PERSON NUMBER
GSUBHH	2000 SUB-HOUSEHOLD IDENTIFIER
HALIVE	2002 VITAL STATUS
HHID	HOUSEHOLD IDENTIFIER
HPPN	2002 SPOUSE-PARTNER PERSON NUMBER
HSUBHH	2002 SUB-HOUSEHOLD IDENTIFIER
JALIVE	2004 VITAL STATUS
JPPN	2004 SPOUSE-PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
KALIVE	2006 VITAL STATUS
KPPN	2006 SPOUSE-PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
LALIVE	2008 VITAL STATUS
LPPN	2008 SPOUSE-PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
MALIVE	2010 VITAL STATUS
MPPN	2010 SPOUSE-PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
NALIVE	2012 VITAL STATUS
NPPN	2012 SPOUSE-PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
OALIVE	2014 VITAL STATUS
OPPN	2014 SPOUSE-PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER

### Current Marital Status: Without partnership

Wave	Variable Name	Variable Label	Type
1	R1MSTATH	R1MSTATH:W1 R MarStat-w/o part,filled	Categ
2	R2MSTATH	R2MSTATH:W2 R MarStat-w/o part,filled	Categ
3	R3MSTATH	R3MSTATH:W3 R MarStat-w/o part,filled	Categ
4	R4MSTATH	R4MSTATH:W4 R MarStat-w/o part,filled	Categ
5	R5MSTATH	R5MSTATH:W5 R MarStat-w/o part,filled	Categ
6	R6MSTATH	R6MSTATH:W6 R MarStat-w/o part,filled	Categ
7	R7MSTATH	R7MSTATH:W7 R MarStat-w/o part,filled	Categ
8	R8MSTATH	R8MSTATH:W8 R MarStat-w/o part,filled	Categ
9	R9MSTATH	R9MSTATH:W9 R MarStat-w/o part,filled	Categ
10	R10MSTATH	R10MSTATH:W10 R MarStat-w/o part,filled	Categ
11	R11MSTATH	R11MSTATH:W11 R MarStat-w/o part,filled	Categ
12	R12MSTATH	R12MSTATH:W12 R MarStat-w/o part,filled	Categ
1	S1MSTATH	S1MSTATH:W1 S MarStat-w/o part,filled	Categ
2	S2MSTATH	S2MSTATH:W2 S MarStat-w/o part,filled	Categ
3	S3MSTATH	S3MSTATH:W3 S MarStat-w/o part,filled	Categ
4	S4MSTATH	S4MSTATH:W4 S MarStat-w/o part,filled	Categ
5	S5MSTATH	S5MSTATH:W5 S MarStat-w/o part,filled	Categ
6	S6MSTATH	S6MSTATH:W6 S MarStat-w/o part,filled	Categ
7	S7MSTATH	S7MSTATH:W7 S MarStat-w/o part,filled	Categ
8	S8MSTATH	S8MSTATH:W8 S MarStat-w/o part,filled	Categ
9	S9MSTATH	S9MSTATH:W9 S MarStat-w/o part,filled	Categ
10	S10MSTATH	S10MSTATH:W10 S MarStat-w/o part,filled	Categ
11	S11MSTATH	S11MSTATH:W11 S MarStat-w/o part,filled	Categ
12	S12MSTATH	S12MSTATH:W12 S MarStat-w/o part,filled	Categ
1	R1MSTATF	R1MSTATF:W1 R MStatH-Flag diff w/marhist	Categ
2	R2MSTATF	R2MSTATF:W2 R MStatH-Flag diff w/marhist	Categ
3	R3MSTATF	R3MSTATF:W3 R MStatH-Flag diff w/marhist	Categ
4	R4MSTATF	R4MSTATF:W4 R MStatH-Flag diff w/marhist	Categ
5	R5MSTATF	R5MSTATF:W5 R MStatH-Flag diff w/marhist	Categ
6	R6MSTATF	R6MSTATF:W6 R MStatH-Flag diff w/marhist	Categ
7	R7MSTATF	R7MSTATF:W7 R MStatH-Flag diff w/marhist	Categ
8	R8MSTATF	R8MSTATF:W8 R MStatH-Flag diff w/marhist	Categ
9	R9MSTATF	R9MSTATF:W9 R MStatH-Flag diff w/marhist	Categ
10	R10MSTATF	R10MSTATF:W10 R MStatH-Flag diff w/marhist	Categ
11	R11MSTATF	R11MSTATF:W11 R MStatH-Flag diff w/marhist	Categ
12	R12MSTATF	R12MSTATF:W12 R MStatH-Flag diff w/marhist	Categ
1	S1MSTATF	S1MSTATF:W1 S MStatH-Flag diff w/marhist	Categ
2	S2MSTATF	S2MSTATF:W2 S MStatH-Flag diff w/marhist	Categ
3	S3MSTATF	S3MSTATF:W3 S MStatH-Flag diff w/marhist	Categ
4	S4MSTATF	S4MSTATF:W4 S MStatH-Flag diff w/marhist	Categ
5	S5MSTATF	S5MSTATF:W5 S MStatH-Flag diff w/marhist	Categ
6	S6MSTATF	S6MSTATF:W6 S MStatH-Flag diff w/marhist	Categ
7	S7MSTATF	S7MSTATF:W7 S MStatH-Flag diff w/marhist	Categ
8	S8MSTATF	S8MSTATF:W8 S MStatH-Flag diff w/marhist	Categ
9	S9MSTATF	S9MSTATF:W9 S MStatH-Flag diff w/marhist	Categ
10	S10MSTATF	S10MSTATF:W10 S MStatH-Flag diff w/marhist	Categ
11	S11MSTATF	S11MSTATF:W11 S MStatH-Flag diff w/marhist	Categ
12	S12MSTATF	S12MSTATF:W12 S MStatH-Flag diff w/marhist	Categ

### Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MSTATH	12652	2.08	2.16	1.0	9.0
R2MSTATH	19642	2.79	2.65	1.0	9.0
R3MSTATH	17988	2.84	2.65	1.0	9.0
R4MSTATH	21380	2.88	2.65	1.0	9.0
R5MSTATH	19579	2.96	2.68	1.0	9.0

R6MSTATH	18165	3.03	2.70	1.0	8.0
R7MSTATH	20123	2.98	2.67	1.0	8.0
R8MSTATH	18469	3.05	2.69	1.0	8.0
R9MSTATH	17217	3.13	2.71	1.0	8.0
R10MSTATH	22030	3.15	2.70	1.0	9.0
R11MSTATH	20554	3.21	2.71	1.0	9.0
R12MSTATH	18747	3.30	2.73	1.0	8.0
S1MSTATH	9900	1.21	1.13	1.0	9.0
S2MSTATH	13088	1.15	0.94	1.0	9.0
S3MSTATH	11915	1.13	0.79	1.0	9.0
S4MSTATH	13978	1.18	0.92	1.0	9.0
S5MSTATH	12730	1.19	0.94	1.0	9.0
S6MSTATH	11639	1.19	0.93	1.0	8.0
S7MSTATH	12972	1.23	1.05	1.0	8.0
S8MSTATH	11735	1.25	1.09	1.0	8.0
S9MSTATH	10646	1.26	1.11	1.0	8.0
S10MSTATH	13513	1.40	1.37	1.0	9.0
S11MSTATH	12488	1.41	1.40	1.0	9.0
S12MSTATH	11027	1.42	1.41	1.0	8.0
R1MSTATF	12652	0.00	0.00	0.0	0.0
R2MSTATF	19642	0.03	0.33	0.0	5.0
R3MSTATF	17991	0.01	0.14	0.0	5.0
R4MSTATF	21384	0.04	0.43	0.0	5.0
R5MSTATF	19579	0.06	0.53	0.0	5.0
R6MSTATF	18165	0.08	0.59	0.0	5.0
R7MSTATF	20129	0.06	0.52	0.0	5.0
R8MSTATF	18469	0.06	0.52	0.0	5.0
R9MSTATF	17217	0.07	0.54	0.0	5.0
R10MSTATF	22034	0.05	0.45	0.0	5.0
R11MSTATF	20554	0.07	0.53	0.0	5.0
R12MSTATF	18747	0.08	0.55	0.0	5.0
S1MSTATF	9900	0.00	0.00	0.0	0.0
S2MSTATF	13088	0.00	0.04	0.0	3.0
S3MSTATF	11915	0.00	0.00	0.0	0.0
S4MSTATF	13978	0.00	0.03	0.0	2.0
S5MSTATF	12730	0.00	0.04	0.0	2.0
S6MSTATF	11639	0.00	0.04	0.0	3.0
S7MSTATF	12972	0.00	0.03	0.0	2.0
S8MSTATF	11735	0.00	0.03	0.0	1.0
S9MSTATF	10646	0.00	0.04	0.0	2.0
S10MSTATF	13513	0.00	0.04	0.0	2.0
S11MSTATF	12488	0.00	0.07	0.0	2.0
S12MSTATF	11027	0.00	0.09	0.0	3.0



## Categorical Variable Codes

Value	R1MSTATH	R2MSTATH	R3MSTATH	R4MSTATH	R5MSTATH	R6MSTATH	R7MSTATH
.M=Oth missing			3	4			6
1.Married	9837	13148	11792	13820	12368	11243	12515
2.Married, spouse absent	57	117	155	144	153	166	187
4.Separated	360	434	367	390	331	289	356
5.Divorced	1217	1321	1376	2009	1900	1776	2232
6.Separated/divorced		111	70				
7.Widowed	649	3806	3678	4317	4203	4155	4096
8.Never married	428	627	537	691	619	536	737
9.Unknown unmar	104	78	13	9	5		

Value	R8MSTATH	R9MSTATH	R10MSTATH	R11MSTATH	R12MSTATH
.M=Oth missing			4		
1.Married	11273	10274	12772	11753	10456
2.Married, spouse absent	161	140	296	212	165
4.Separated	313	299	566	519	490
5.Divorced	2082	2023	3124	2978	2743
6.Separated/divorced			1		
7.Widowed	3996	3879	3943	3859	3773
8.Never married	644	602	1325	1230	1120
9.Unknown unmar			3	3	

Value	S1MSTATH	S2MSTATH	S3MSTATH	S4MSTATH	S5MSTATH	S6MSTATH	S7MSTATH
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Married	9492	12701	11484	13373	12124	11075	12219
2.Married, spouse absent	42	22	124	124	141	152	168
4.Separated	46	71	62	43	38	25	32
5.Divorced	131	113	135	253	254	220	327
6.Separated/divorced		1					
7.Widowed	26	44	54	104	100	116	130
8.Never married	63	62	44	73	68	51	96
9.Unknown unmar	100	74	12	8	5		

Value	S8MSTATH	S9MSTATH	S10MSTATH	S11MSTATH	S12MSTATH
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Married	11027	9993	12218	11309	9992
2.Married, spouse absent	152	123	256	180	136
4.Separated	30	20	86	65	61
5.Divorced	299	296	538	530	479
7.Widowed	137	134	183	189	167
8.Never married	90	80	230	212	192
9.Unknown unmar			2	3	

Value	R1MSTATF	R2MSTATF	R3MSTATF	R4MSTATF	R5MSTATF	R6MSTATF	R7MSTATF
0.No discrepancy	12652	19497	17943	21150	19240	17799	19799
1.MS=nev,marhis=evmar		29	23	33	52	41	49
2.MS=evmar,marhis=nev		20	15	36	43	43	39
3.MS=sep,marhis=wid/div		24		18	43	46	41
5.Othr dif unmarried MS		72	10	147	201	236	201

Value	R8MSTATF	R9MSTATF	R10MSTATF	R11MSTATF	R12MSTATF
0.No discrepancy	18150	16891	21715	20119	18306
1.MS=nev,marhis=evmar	52	61	84	115	106
2.MS=evmar,marhis=nev	40	37	37	56	63
3.MS=sep,marhis=wid/div	49	53	45	72	86
5.Othr dif unmarried MS	178	175	153	192	186

Value	S1MSTATF	S2MSTATF	S3MSTATF	S4MSTATF	S5MSTATF	S6MSTATF	S7MSTATF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No discrepancy	9900	13085	11915	13974	12719	11630	12964
1.MS=nev,marhis=evmar				2	7	7	7
2.MS=evmar,marhis=nev		1		2	4	1	1
3.MS=sep,marhis=wid/div		2				1	

Value	S8MSTATF	S9MSTATF	S10MSTATF	S11MSTATF	S12MSTATF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No discrepancy	11727	10631	13498	12457	10993
1.MS=nev,marhis=evmar	8	13	14	23	21
2.MS=evmar,marhis=nev		2	1	8	11
3.MS=sep,marhis=wid/div					2

## How Constructed

This variable is created using current marital status reported for each wave. For Wave 3A, and from Wave 4 forward, a cleaned version of marital status is used, which fills missing marital status using cover sheet data and marital events reported between interviews.

The RwmSTAT variables code partnerships, which override actual marital status. Before Wave 4, partnered couples were not asked for their unmarried status. Beginning in Wave 4, those not living with another, and those living as unmarried partners, were asked for their unmarried status. Please see the description of RwmSTAT and RwmPART variables for details.

The RwmSTATH variables are derived from RwmSTAT but do not code partnerships, and actual marital status replaces the partnership code, if it can be determined. For instance, because partners were specifically asked actual marital status from Waves 4 forward, many partner marital statuses can be carried back to prior waves if no intervening marital events have occurred. Marital events can also indicate marital status of a partnered Respondent, e.g., a number of partners report a widowhood or divorce, followed closely by a marriage to the partner. When the actual marital status cannot be determined RwmSTATH is set to an unknown unmarried status (=9). Marital status for partners can sometimes also be determined at their first interview from retrospective marriage history information. From Wave 7 and forward, some cases report a marital status of annulled, which is treated the same as never married.

The codes for separation and divorce are combined in Waves 2A, 3A, and 3H; a separate category is used for this ambiguous state. Information from previous and subsequent wave marital status, marital events reported, marital history, and spouse marital status are used to distinguish between separation and divorce in these waves when possible. For all

waves, this variable combines "Married, spouse absent" as one category, rather than separating spouse in institution vs not. HRS Wave 1 imputations are not used at all.

The RwmSTATF variables compare RwmSTATH with marital status reported in other waves, and those derived from marital history. For instance, some cases switch between unmarried statuses across waves, e.g., from divorced to never married. RwmSTATF flags these seemingly illogical differences, distinguishing between ever married and never married discrepancies, and those of other types.

RwmSTATH may have a value when RwmSTAT is missing. The analyst may want to fill RwmSTAT from RwmSTATH in these cases.

The spouse variable SwmSTATH is taken from the spouse's data for Wave 'w.' It is set to .U if the Respondent is unmarried or unpartnered or .V if the Respondent's spouse or partner did not respond in a given wave.

### **Cross Wave Differences in Original HRS Data**

The asking and coding of marital status differs from wave to wave. In Waves 1 and 2H Respondents are specifically asked their marital status as married, partnered, separated, divorced, widowed or never married. The marital status in the public use data also includes a "Married, spouse absent" status that is split between those whose spouse is in a nursing home and those whose spouse is not institutionalized. In Wave 2A, a single item is used to assess marital status. Response categories include married (spouse present), married (spouse absent), living with someone, separated/divorced, widowed, and never married. The separated and divorced categories are not coded separately.

In Wave 3H, the Respondent is not asked marital status; it is derived from preloaded marital status and a series of questions in the cover sheet section. There is a "corrected" marital status included in the Wave 3H public use data. In addition, the separated and divorced statuses are not coded separately. In Waves 1, 2, and 3H, partnership overrides any other marital status. Marital status in Wave 3A is also derived using questions from the cover sheet section. The separated and divorced statuses are in a single category, and partnership overrides any other marital status.

Beginning in Wave 4, all partnered and unmarried single Respondents are asked marital status. Through Wave 6, the status must be an unmarried status, treating separated as an unmarried category apart from divorced. Beginning in Wave 7, married or annulled may be coded, in addition to the unmarried statuses.

Marital status in the raw data is set to married or separated for Respondents determined to have these statuses from the cover sheet section questions. There is no distinction made between spouse present and spouse absent in the raw marital status variable, but this information is available from other questions in the cover sheet section.

The cover sheet section sequence of questions that lead to a marital status and determination of "coupleness," are included in the data starting in Wave 3. These questions are examined to help set the cleaned marital status used to derive RwmSTAT.

Respondents who have an unmarried to married transition between interviews, or vice versa, are asked about marriages and ends of marriages (divorce or widowhood) that may have occurred between interviews at all waves after the initial interview in which a Respondent appears.

From Wave 4 forward, some partners appear to have married based on these reported marital transitions. These cases often report "other" in response to the question about specific unmarried status; note that "married" is not allowed in response to this question. Cases with both a reported marital event and a report of "other" marital status are set to married in the cleaned versions of marital status used in deriving RwmSTAT.

Marriage history is asked of individuals at the first interview to which they respond. The questions generally proceed from current marital status and ask number of marriages, the date the first and most recent marriage began, and either the length or end date of those marriages. For previous marriages, questions ask how it ended. In Wave 1, partnered Respondents are asked the timing of their most recent marriage, but not how it ended. For Wave 2A, partnered Respondents who report being previously married are asked how the marriage ended, and the number of years they were married. For new Respondents in Wave 2H the most recent marriage is only asked about if it is also the first. From Wave 3 forward, new Respondents are asked how the most recent marriage ended if they were ever married.

## HRS Variables Used

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HRS 1992:
V10225      A10:CURRENT MAR STAT:IND
V225        A10:CURRENT MARR STA:IMP
V228        A10B:EVER BEEN MARRIED
V232        A10E:LAST MARR END-MO
V233        A10E:LAST MARR END-YEAR
AHEAD 1993:
B150        A11. R'S MARITAL STATUS
B158        A11c. LIVE TGHR: EVER MARRIED
B160        A11e. LIVE TGHR: DIVORCED OR WIDOWED
B166        A13. # OF MARRIAGES EVER
HRS 1994:
W200        A1. Marital Status
W207        A6. Ever Been Married?
W208        A7. Number of Times Married
W210        A9. Marriage End Divorce/Widow
AHEAD 1995:
D676        A21.L-EVER MARRIED
D677        A21A.# MARRIAGES
D680        A22B.FIRST MAR-END DIV/WID
D684        A23B.RECENT MAR-END DIV/WID
DMSTATR     HRS 95: Marital Status (w/ partnered)
HRS 1996:
E256A       MARRIAGE STATUS - CORRECTED
E676        A21.L-EVER MARRIED
E677        A21A.# MARRIAGES
E680        A22B.FIRST MAR-END DIV/WID
E684        A23B.RECENT MAR-END DIV/WID
HRS 1998:
F1059       A40.POST W1 MARRIAGE START
F1066       A41.POST W1 DIV/WIDOWED
F1070       A43.MARITAL STATUS IF UNMARRIED
F1071       A43A.MARITAL STATUS, ASSIGNED
F1072       A44.# MARRIAGES
F1075       A45B.FIRST MAR-END DIV/WID
F1087       A48B.RECENT MAR-END DIV/WID
F461        PRELOAD COHORT
F462        PRELOAD MARITAL STATUS
F475        WHICH IW 1ST R/2ND R
F502        CS4.1ST R SAME SPOUSE/P
F504        CS5.PRELOAD SPOUSE/P ALIVE
F507        CS7.1ST R MARRIED
F508        CS8.COUPLE PARTNER
F517        CS11.R IN NURSING HOME
F521        CS12.COUPLE LIVE TOGETHER
F524        CS14.SP/P WHERE LIVE

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F528	CS15A.MARRIED OR SEPARATED
F529	CS15B.SEPARATED:PARTNERED?
F546	CS15D.CURRENT COUPLENESS
FMARST	HRS 98: Marital Status (w/o partnered)
FMARSTP	HRS 98: Marital Status (w/ partnered)
HRS 2000:	
G1146	A40.POST W1 MARRIAGE START
G1153	A41.POST W1 DIV/WIDOWED
G1158	A43A.MARITAL STATUS_ASSIGNED
G1159	A44.# MARRIAGES
G1162	A45B.FIRST MAR-END DIV/WID
G1174	A48B.RECENT MAR-END DIV/WID
G482	CS0Y9.PRELOAD ENTRY COHORT
G506	CS0Y21.WHICH IW 1ST R/2ND R
G543	CS4.1ST R SAME SPOUSE/P
G545	CS5.PRELOAD SPOUSE/P ALIVE
G548	CS7.1ST R MARRIED
G549	CS8.COUPLE PARTNER
G558	CS11.R IN NURSING HOME
G562	CS12.COUPLE LIVE TOGETHER
G569	CS15A.MARRIED OR SEPARATED
G570	CS15B.SEPARATED:PARTNERED?
G597	CS15D.CURRENT COUPLENESS
GMARST	HRS 00: Marital Status (w/o partnered)
GMARSTP	HRS 00: Marital Status (w/ partnered)
HRS 2002:	
HA020	1ST R SAME SP/P
HA023	PREVIOUS WAVE SP/P ALIVE
HA026	R MARRIED
HA027	LIVING W/P
HA028	R IN NURSING HOME
HA030	COUPLE LIVE TOGETHER
HA033	SP/P IN NURSHOME
HA034	MARRIED OR SEPARATED
HA035	SEPARATED/PARTNERED
HB055	NEW MARRIAGE SINCE PREVIOUS WAVE
HB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
HB061	MARITAL STATUS IF UNMARRIED
HB065	NUMBER OF MARRIAGES
HB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
HMARITAL	MARITAL STATUS
HMARST	HRS 02: Marital Status (w/o partnered)
HMARSTP	HRS 02: Marital Status (w/ partnered)
HX065_R	COUPLENESS STATUS - UPDATED
HZ023	WHICH COHORT
HRS 2004:	
JA020	1ST R SAME SP/P
JA023	PREVIOUS WAVE SP/P ALIVE
JA026	R MARRIED
JA027	LIVING W/P
JA028	R IN NURSING HOME
JA030	COUPLE LIVE TOGETHER
JA033	SP/P IN NURSHOME
JA034	MARRIED OR SEPARATED
JA035	SEPARATED/PARTNERED
JB055	NEW MARRIAGE SINCE PREVIOUS WAVE
JB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
JB061	MARITAL STATUS IF UNMARRIED
JB063	MARITAL STATUS ASSIGNED

JB065	NUMBER OF MARRIAGES
JB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
JX065_R	COUPLENESS STATUS - UPDATED
JZ023	WHICH COHORT
HRS 2006:	
KA020	1ST R SAME SP/P
KA023	PREVIOUS WAVE SP/P ALIVE
KA026	R MARRIED
KA027	LIVING W/P
KA028	R IN NURSING HOME
KA030	COUPLE LIVE TOGETHER
KA033	SP/P IN NURSHOME
KA034	MARRIED OR SEPARATED
KA035	SEPARATED/PARTNERED
KB055	NEW MARRIAGE SINCE PREVIOUS WAVE
KB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
KB061	MARITAL STATUS IF UNMARRIED
KB063	MARITAL STATUS ASSIGNED
KB065	NUMBER OF MARRIAGES
KB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
KX065_R	COUPLENESS STATUS - UPDATED
KZ023	WHICH COHORT
HRS 2008:	
LA020	1ST R SAME SP/P
LA023	PREVIOUS WAVE SP/P ALIVE
LA026	R MARRIED
LA027	LIVING W/P
LA028	R IN NURSING HOME
LA030	COUPLE LIVE TOGETHER
LA033	SP/P IN NURSHOME
LA034	MARRIED OR SEPARATED
LA035	SEPARATED/PARTNERED
LB055	NEW MARRIAGE SINCE PREVIOUS WAVE
LB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
LB061	MARITAL STATUS IF UNMARRIED
LB063	MARITAL STATUS ASSIGNED
LB065	NUMBER OF MARRIAGES
LB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
LX065_R	COUPLENESS STATUS - UPDATED
LZ023	PREV WAVE WHICH COHORT
HRS 2010:	
MA020	1ST R SAME SP/P
MA023	PREVIOUS WAVE SP/P ALIVE
MA026	R MARRIED
MA027	LIVING W/P
MA028	R IN NURSING HOME
MA030	COUPLE LIVE TOGETHER
MA033	SP/P IN NURSHOME
MA034	MARRIED OR SEPARATED
MA035	SEPARATED/PARTNERED
MB055	NEW MARRIAGE SINCE PREVIOUS WAVE
MB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
MB061	MARITAL STATUS IF UNMARRIED
MB063	MARITAL STATUS ASSIGNED
MB065	NUMBER OF MARRIAGES
MB068_1	FIRST MARRIAGE END DIVORCE/WIDOW

MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
MX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
MZ023	PREV WAVE WHICH COHORT -1
HRS 2012:	
NA020	1ST R SAME SP/P
NA023	PREVIOUS WAVE SP/P ALIVE
NA026	R MARRIED
NA027	LIVING W/P
NA028	R IN NURSING HOME
NA030	COUPLE LIVE TOGETHER
NA033	SP/P IN NURSHOME
NA034	MARRIED OR SEPARATED
NA035	SEPARATED/PARTNERED
NB055	NEW MARRIAGE SINCE PREVIOUS WAVE
NB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
NB061	MARITAL STATUS IF UNMARRIED
NB063	MARITAL STATUS ASSIGNED
NB065	NUMBER OF MARRIAGES
NB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
NX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
NZ023	PREV WAVE WHICH COHORT
HRS 2014:	
OA020	1ST R SAME SP/P
OA023	PREVIOUS WAVE SP/P ALIVE
OA026	R MARRIED
OA027	LIVING W/P
OA028	R IN NURSING HOME
OA030	COUPLE LIVE TOGETHER
OA033	SP/P IN NURSHOME
OA034	MARRIED OR SEPARATED
OA035	SEPARATED/PARTNERED
OB055	NEW MARRIAGE SINCE PREVIOUS WAVE
OB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
OB061	MARITAL STATUS IF UNMARRIED
OB063	MARITAL STATUS ASSIGNED
OB065	NUMBER OF MARRIAGES
OB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
OX065_R	COUPLENES STATUS OF INDIVIDUAL-UPDATED
OZ023	PREV WAVE WHICH COHORT
Tracker:	
ASUBHH	1992 SUB-HOUSEHOLD IDENTIFIER
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
DSUBHH	1995 SUB-HOUSEHOLD IDENTIFIER
ESUBHH	1996 SUB-HOUSEHOLD IDENTIFIER
FSUBHH	1998 SUB-HOUSEHOLD IDENTIFIER
GSUBHH	2000 SUB-HOUSEHOLD IDENTIFIER
HHID	HOUSEHOLD IDENTIFIER
HSUBHH	2002 SUB-HOUSEHOLD IDENTIFIER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER

<b>Marital History</b>
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Wave	Variable Name	Variable Label	Type
1	R1MRCT	R1MRCT:W1 R # marriages	Categ
2	R2MRCT	R2MRCT:W2 R # marriages	Categ
3	R3MRCT	R3MRCT:W3 R # marriages	Categ
4	R4MRCT	R4MRCT:W4 R # marriages	Categ
5	R5MRCT	R5MRCT:W5 R # marriages	Categ
6	R6MRCT	R6MRCT:W6 R # marriages	Categ
7	R7MRCT	R7MRCT:W7 R # marriages	Categ
8	R8MRCT	R8MRCT:W8 R # marriages	Categ
9	R9MRCT	R9MRCT:W9 R # marriages	Categ
10	R10MRCT	R10MRCT:W10 R # marriages	Categ
11	R11MRCT	R11MRCT:W11 R # marriages	Categ
12	R12MRCT	R12MRCT:W12 R # marriages	Categ
1	S1MRCT	S1MRCT:W1 S # marriages	Categ
2	S2MRCT	S2MRCT:W2 S # marriages	Categ
3	S3MRCT	S3MRCT:W3 S # marriages	Categ
4	S4MRCT	S4MRCT:W4 S # marriages	Categ
5	S5MRCT	S5MRCT:W5 S # marriages	Categ
6	S6MRCT	S6MRCT:W6 S # marriages	Categ
7	S7MRCT	S7MRCT:W7 S # marriages	Categ
8	S8MRCT	S8MRCT:W8 S # marriages	Categ
9	S9MRCT	S9MRCT:W9 S # marriages	Categ
10	S10MRCT	S10MRCT:W10 S # marriages	Categ
11	S11MRCT	S11MRCT:W11 S # marriages	Categ
12	S12MRCT	S12MRCT:W12 S # marriages	Categ
1	R1MNEV	R1MNEV:W1 R never married	Categ
2	R2MNEV	R2MNEV:W2 R never married	Categ
3	R3MNEV	R3MNEV:W3 R never married	Categ
4	R4MNEV	R4MNEV:W4 R never married	Categ
5	R5MNEV	R5MNEV:W5 R never married	Categ
6	R6MNEV	R6MNEV:W6 R never married	Categ
7	R7MNEV	R7MNEV:W7 R never married	Categ
8	R8MNEV	R8MNEV:W8 R never married	Categ
9	R9MNEV	R9MNEV:W9 R never married	Categ
10	R10MNEV	R10MNEV:W10 R never married	Categ
11	R11MNEV	R11MNEV:W11 R never married	Categ
12	R12MNEV	R12MNEV:W12 R never married	Categ
1	S1MNEV	S1MNEV:W1 S never married	Categ
2	S2MNEV	S2MNEV:W2 S never married	Categ
3	S3MNEV	S3MNEV:W3 S never married	Categ
4	S4MNEV	S4MNEV:W4 S never married	Categ
5	S5MNEV	S5MNEV:W5 S never married	Categ
6	S6MNEV	S6MNEV:W6 S never married	Categ
7	S7MNEV	S7MNEV:W7 S never married	Categ
8	S8MNEV	S8MNEV:W8 S never married	Categ
9	S9MNEV	S9MNEV:W9 S never married	Categ
10	S10MNEV	S10MNEV:W10 S never married	Categ
11	S11MNEV	S11MNEV:W11 S never married	Categ
12	S12MNEV	S12MNEV:W12 S never married	Categ
1	R1MDIV	R1MDIV:W1 R # times divorced	Categ
2	R2MDIV	R2MDIV:W2 R # times divorced	Categ
3	R3MDIV	R3MDIV:W3 R # times divorced	Categ
4	R4MDIV	R4MDIV:W4 R # times divorced	Categ
5	R5MDIV	R5MDIV:W5 R # times divorced	Categ
6	R6MDIV	R6MDIV:W6 R # times divorced	Categ
7	R7MDIV	R7MDIV:W7 R # times divorced	Categ
8	R8MDIV	R8MDIV:W8 R # times divorced	Categ
9	R9MDIV	R9MDIV:W9 R # times divorced	Categ
10	R10MDIV	R10MDIV:W10 R # times divorced	Categ
11	R11MDIV	R11MDIV:W11 R # times divorced	Categ
12	R12MDIV	R12MDIV:W12 R # times divorced	Categ
1	S1MDIV	S1MDIV:W1 S # times divorced	Categ



2	S2MDIV	S2MDIV:W2 S # times divorced	Categ
3	S3MDIV	S3MDIV:W3 S # times divorced	Categ
4	S4MDIV	S4MDIV:W4 S # times divorced	Categ
5	S5MDIV	S5MDIV:W5 S # times divorced	Categ
6	S6MDIV	S6MDIV:W6 S # times divorced	Categ
7	S7MDIV	S7MDIV:W7 S # times divorced	Categ
8	S8MDIV	S8MDIV:W8 S # times divorced	Categ
9	S9MDIV	S9MDIV:W9 S # times divorced	Categ
10	S10MDIV	S10MDIV:W10 S # times divorced	Categ
11	S11MDIV	S11MDIV:W11 S # times divorced	Categ
12	S12MDIV	S12MDIV:W12 S # times divorced	Categ
1	R1MWID	R1MWID:W1 R # times widowed	Categ
2	R2MWID	R2MWID:W2 R # times widowed	Categ
3	R3MWID	R3MWID:W3 R # times widowed	Categ
4	R4MWID	R4MWID:W4 R # times widowed	Categ
5	R5MWID	R5MWID:W5 R # times widowed	Categ
6	R6MWID	R6MWID:W6 R # times widowed	Categ
7	R7MWID	R7MWID:W7 R # times widowed	Categ
8	R8MWID	R8MWID:W8 R # times widowed	Categ
9	R9MWID	R9MWID:W9 R # times widowed	Categ
10	R10MWID	R10MWID:W10 R # times widowed	Categ
11	R11MWID	R11MWID:W11 R # times widowed	Categ
12	R12MWID	R12MWID:W12 R # times widowed	Categ
1	S1MWID	S1MWID:W1 S # times widowed	Categ
2	S2MWID	S2MWID:W2 S # times widowed	Categ
3	S3MWID	S3MWID:W3 S # times widowed	Categ
4	S4MWID	S4MWID:W4 S # times widowed	Categ
5	S5MWID	S5MWID:W5 S # times widowed	Categ
6	S6MWID	S6MWID:W6 S # times widowed	Categ
7	S7MWID	S7MWID:W7 S # times widowed	Categ
8	S8MWID	S8MWID:W8 S # times widowed	Categ
9	S9MWID	S9MWID:W9 S # times widowed	Categ
10	S10MWID	S10MWID:W10 S # times widowed	Categ
11	S11MWID	S11MWID:W11 S # times widowed	Categ
12	S12MWID	S12MWID:W12 S # times widowed	Categ
1	R1MEND	R1MEND:W1 R # times unknown end marriage	Categ
2	R2MEND	R2MEND:W2 R # times unknown end marriage	Categ
3	R3MEND	R3MEND:W3 R # times unknown end marriage	Categ
4	R4MEND	R4MEND:W4 R # times unknown end marriage	Categ
5	R5MEND	R5MEND:W5 R # times unknown end marriage	Categ
6	R6MEND	R6MEND:W6 R # times unknown end marriage	Categ
7	R7MEND	R7MEND:W7 R # times unknown end marriage	Categ
8	R8MEND	R8MEND:W8 R # times unknown end marriage	Categ
9	R9MEND	R9MEND:W9 R # times unknown end marriage	Categ
10	R10MEND	R10MEND:W10 R # times unknown end marriage	Categ
11	R11MEND	R11MEND:W11 R # times unknown end marriage	Categ
12	R12MEND	R12MEND:W12 R # times unknown end marriage	Categ
1	S1MEND	S1MEND:W1 S # times unknown end marriage	Categ
2	S2MEND	S2MEND:W2 S # times unknown end marriage	Categ
3	S3MEND	S3MEND:W3 S # times unknown end marriage	Categ
4	S4MEND	S4MEND:W4 S # times unknown end marriage	Categ
5	S5MEND	S5MEND:W5 S # times unknown end marriage	Categ
6	S6MEND	S6MEND:W6 S # times unknown end marriage	Categ
7	S7MEND	S7MEND:W7 S # times unknown end marriage	Categ
8	S8MEND	S8MEND:W8 S # times unknown end marriage	Categ
9	S9MEND	S9MEND:W9 S # times unknown end marriage	Categ
10	S10MEND	S10MEND:W10 S # times unknown end marriage	Categ
11	S11MEND	S11MEND:W11 S # times unknown end marriage	Categ
12	S12MEND	S12MEND:W12 S # times unknown end marriage	Categ

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MRCT	12614	1.33	0.71	0.0	13.0
R2MRCT	19574	1.30	0.68	0.0	13.0
R3MRCT	17931	1.31	0.68	0.0	13.0
R4MRCT	21323	1.32	0.69	0.0	13.0
R5MRCT	19520	1.33	0.70	0.0	13.0
R6MRCT	18107	1.34	0.71	0.0	8.0
R7MRCT	20066	1.36	0.73	0.0	8.0
R8MRCT	18409	1.37	0.75	0.0	8.0
R9MRCT	17159	1.39	0.76	0.0	8.0
R10MRCT	21955	1.36	0.78	0.0	8.0
R11MRCT	20491	1.38	0.79	0.0	8.0
R12MRCT	18687	1.39	0.80	0.0	8.0
S1MRCT	9885	1.36	0.67	0.0	8.0
S2MRCT	13041	1.33	0.64	0.0	8.0
S3MRCT	11876	1.34	0.64	0.0	7.0
S4MRCT	13942	1.35	0.66	0.0	8.0
S5MRCT	12695	1.36	0.67	0.0	8.0
S6MRCT	11601	1.39	0.70	0.0	8.0
S7MRCT	12931	1.40	0.72	0.0	8.0
S8MRCT	11698	1.42	0.73	0.0	8.0
S9MRCT	10618	1.43	0.74	0.0	8.0
S10MRCT	13469	1.43	0.74	0.0	8.0
S11MRCT	12452	1.44	0.75	0.0	7.0
S12MRCT	10992	1.45	0.76	0.0	7.0
R1MNEV	12652	0.03	0.18	0.0	1.0
R2MNEV	19642	0.03	0.17	0.0	1.0
R3MNEV	17991	0.03	0.17	0.0	1.0
R4MNEV	21381	0.03	0.18	0.0	1.0
R5MNEV	19577	0.03	0.17	0.0	1.0
R6MNEV	18164	0.03	0.17	0.0	1.0
R7MNEV	20127	0.04	0.19	0.0	1.0
R8MNEV	18467	0.03	0.18	0.0	1.0
R9MNEV	17216	0.03	0.18	0.0	1.0
R10MNEV	22032	0.06	0.23	0.0	1.0
R11MNEV	20553	0.06	0.23	0.0	1.0
R12MNEV	18746	0.06	0.23	0.0	1.0
S1MNEV	9900	0.01	0.08	0.0	1.0
S2MNEV	13088	0.00	0.07	0.0	1.0
S3MNEV	11915	0.00	0.06	0.0	1.0
S4MNEV	13978	0.01	0.07	0.0	1.0
S5MNEV	12730	0.01	0.07	0.0	1.0
S6MNEV	11639	0.00	0.06	0.0	1.0
S7MNEV	12972	0.01	0.08	0.0	1.0
S8MNEV	11735	0.01	0.08	0.0	1.0
S9MNEV	10646	0.01	0.08	0.0	1.0
S10MNEV	13513	0.02	0.13	0.0	1.0
S11MNEV	12488	0.02	0.12	0.0	1.0
S12MNEV	11027	0.02	0.13	0.0	1.0
R1MDIV	12652	0.40	0.66	0.0	4.0
R2MDIV	19642	0.25	0.56	0.0	4.0
R3MDIV	17991	0.27	0.58	0.0	5.0
R4MDIV	21384	0.31	0.62	0.0	5.0

R5MDIV	19579	0.33	0.63	0.0	5.0
R6MDIV	18165	0.35	0.65	0.0	5.0
R7MDIV	20129	0.40	0.69	0.0	5.0
R8MDIV	18469	0.41	0.70	0.0	5.0
R9MDIV	17217	0.44	0.72	0.0	5.0
R10MDIV	22034	0.49	0.75	0.0	5.0
R11MDIV	20554	0.51	0.76	0.0	6.0
R12MDIV	18747	0.52	0.78	0.0	6.0
S1MDIV	9900	0.32	0.60	0.0	4.0
S2MDIV	13088	0.21	0.51	0.0	3.0
S3MDIV	11915	0.23	0.52	0.0	4.0
S4MDIV	13978	0.26	0.56	0.0	5.0
S5MDIV	12730	0.27	0.57	0.0	5.0
S6MDIV	11639	0.29	0.59	0.0	5.0
S7MDIV	12972	0.34	0.63	0.0	5.0
S8MDIV	11735	0.35	0.65	0.0	5.0
S9MDIV	10646	0.37	0.67	0.0	5.0
S10MDIV	13513	0.41	0.69	0.0	5.0
S11MDIV	12488	0.43	0.70	0.0	5.0
S12MDIV	11027	0.44	0.71	0.0	5.0
R1MWID	12652	0.09	0.30	0.0	3.0
R2MWID	19642	0.22	0.42	0.0	3.0
R3MWID	17991	0.23	0.43	0.0	3.0
R4MWID	21384	0.24	0.44	0.0	3.0
R5MWID	19579	0.25	0.45	0.0	3.0
R6MWID	18165	0.27	0.46	0.0	3.0
R7MWID	20129	0.25	0.45	0.0	3.0
R8MWID	18469	0.26	0.47	0.0	3.0
R9MWID	17217	0.28	0.48	0.0	3.0
R10MWID	22034	0.22	0.44	0.0	3.0
R11MWID	20554	0.23	0.45	0.0	4.0
R12MWID	18747	0.25	0.47	0.0	4.0
S1MWID	9900	0.05	0.22	0.0	3.0
S2MWID	13088	0.03	0.18	0.0	2.0
S3MWID	11915	0.04	0.20	0.0	2.0
S4MWID	13978	0.05	0.22	0.0	3.0
S5MWID	12730	0.05	0.23	0.0	2.0
S6MWID	11639	0.06	0.26	0.0	3.0
S7MWID	12972	0.06	0.25	0.0	3.0
S8MWID	11735	0.07	0.27	0.0	3.0
S9MWID	10646	0.07	0.28	0.0	3.0
S10MWID	13513	0.06	0.26	0.0	3.0
S11MWID	12488	0.07	0.27	0.0	3.0
S12MWID	11027	0.07	0.26	0.0	3.0
R1MEND	12614	0.02	0.20	0.0	10.0
R2MEND	19574	0.13	0.42	0.0	10.0
R3MEND	17931	0.12	0.40	0.0	10.0
R4MEND	21323	0.09	0.36	0.0	10.0
R5MEND	19520	0.09	0.35	0.0	10.0
R6MEND	18107	0.08	0.32	0.0	5.0
R7MEND	20066	0.06	0.29	0.0	5.0
R8MEND	18409	0.06	0.28	0.0	5.0
R9MEND	17159	0.05	0.27	0.0	5.0
R10MEND	21955	0.03	0.21	0.0	5.0
R11MEND	20491	0.03	0.21	0.0	5.0

R12MEND	18687	0.03	0.20	0.0	5.0
S1MEND	9885	0.02	0.18	0.0	6.0
S2MEND	13041	0.11	0.38	0.0	6.0
S3MEND	11876	0.10	0.36	0.0	6.0
S4MEND	13942	0.07	0.31	0.0	4.0
S5MEND	12695	0.07	0.29	0.0	3.0
S6MEND	11601	0.06	0.28	0.0	4.0
S7MEND	12931	0.05	0.25	0.0	5.0
S8MEND	11698	0.04	0.23	0.0	4.0
S9MEND	10618	0.04	0.22	0.0	4.0
S10MEND	13469	0.02	0.17	0.0	4.0
S11MEND	12452	0.02	0.16	0.0	4.0
S12MEND	10992	0.02	0.16	0.0	4.0

### Categorical Variable Codes

Value	R1MRCT	R2MRCT	R3MRCT	R4MRCT	R5MRCT	R6MRCT	R7MRCT
.D=DK				1	2	2	3
.M=Oth missing	5	16	12	13	11	11	17
.R=RF	33	52	48	47	46	45	43
0	428	617	527	691	605	534	722
1	8638	13810	12579	14821	13501	12386	13324
2	2814	4105	3822	4539	4207	4007	4588
3	567	811	786	1003	945	902	1087
4	112	181	171	222	213	224	287
5	42	37	32	33	37	43	45
6	8	8	9	7	8	6	7
7	3	3	4	4	2	3	4
8	1	1		2	1	2	2
13	1	1	1	1	1		
Value	R8MRCT	R9MRCT	R10MRCT	R11MRCT	R12MRCT		
.D=DK	3	2	3	2	2		
.M=Oth missing	17	17	35	31	30		
.R=RF	40	39	41	30	28		
0	625	569	1270	1166	1060		
1	12162	11200	13771	12706	11477		
2	4206	4004	5100	4827	4438		
3	1073	1048	1408	1391	1328		
4	289	284	355	352	328		
5	41	41	40	36	43		
6	7	7	7	9	9		
7	4	4	3	3	3		
8	2	2	1	1	1		

Value	S1MRCT	S2MRCT	S3MRCT	S4MRCT	S5MRCT	S6MRCT	S7MRCT
.D=DK				1	2	2	2
.M=Oth missing		6	5	4	4	4	10
.R=RF	15	41	34	31	29	32	29
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0	63	63	44	73	65	45	90
1	6992	9477	8583	10003	9026	8098	8823
2	2246	2793	2580	3014	2782	2643	3040
3	451	560	526	671	643	617	733
4	91	114	112	147	146	160	203
5	34	26	25	26	26	30	32
6	5	5	4	4	4	3	4
7	2	2	2	2	2	3	4
8	1	1		2	1	2	2

Value	S8MRCT	S9MRCT	S10MRCT	S11MRCT	S12MRCT
.D=DK	2	2	1	2	1
.M=Oth missing	9	3	18	15	15
.R=RF	26	23	25	19	19
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0	80	69	217	197	180
1	7922	7068	8735	8012	7032
2	2741	2566	3326	3088	2711
3	710	682	927	904	839
4	207	197	236	223	200
5	29	29	22	22	24
6	4	3	3	5	5
7	3	3	2	1	1
8	2	1	1		

Value	R1MNEV	R2MNEV	R3MNEV	R4MNEV	R5MNEV	R6MNEV	R7MNEV
.N=No mrs, likely nev mar				3	2	1	2
0.Ever married	12224	19025	17464	20690	18972	17630	19405
1.Never married	428	617	527	691	605	534	722
Value	R8MNEV	R9MNEV	R10MNEV	R11MNEV	R12MNEV		
.N=No mrs, likely nev mar	2	1	2	1	1		
0.Ever married	17842	16647	20762	19387	17686		
1.Never married	625	569	1270	1166	1060		

Value	S1MNEV	S2MNEV	S3MNEV	S4MNEV	S5MNEV	S6MNEV	S7MNEV
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Ever married	9837	13025	11871	13905	12665	11594	12882
1.Never married	63	63	44	73	65	45	90

Value	S8MNEV	S9MNEV	S10MNEV	S11MNEV	S12MNEV
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Ever married	11655	10577	13296	12291	10847
1.Never married	80	69	217	197	180

Value	R1MDIV	R2MDIV	R3MDIV	R4MDIV	R5MDIV	R6MDIV	R7MDIV
0	8688	15756	14180	16148	14582	13282	14033
1	3107	3058	3000	4061	3872	3736	4540
2	672	644	634	927	891	909	1224
3	167	161	157	217	200	203	291
4	18	23	17	28	31	32	38
5			3	3	3	3	3

Value	R8MDIV	R9MDIV	R10MDIV	R11MDIV	R12MDIV
0	12710	11627	14087	12914	11606
1	4240	4065	5734	5432	5038
2	1187	1193	1733	1712	1620
3	291	285	415	424	405
4	38	44	62	68	74
5	3	3	3	3	3
6				1	1

Value	S1MDIV	S2MDIV	S3MDIV	S4MDIV	S5MDIV	S6MDIV	S7MDIV
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0	7335	10802	9707	11052	9923	8914	9565
1	2065	1846	1800	2339	2243	2152	2630
2	397	354	326	476	456	456	610
3	102	86	81	104	100	106	154
4	1		1	5	6	9	11
5				2	2	2	2

Value	S8MDIV	S9MDIV	S10MDIV	S11MDIV	S12MDIV
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0	8571	7638	9265	8461	7422
1	2398	2249	3156	2975	2633
2	604	598	877	840	773
3	149	146	196	190	173
4	11	13	17	21	25
5	2	2	2	1	1

Value	R1MWID	R2MWID	R3MWID	R4MWID	R5MWID	R6MWID	R7MWID
0	11516	15416	13875	16420	14728	13383	15355
1	1098	4176	4055	4840	4716	4628	4608
2	37	49	59	119	130	149	158
3	1	1	2	5	5	5	8

Value	R8MWID	R9MWID	R10MWID	R11MWID	R12MWID
0	13808	12688	17380	16049	14425
1	4460	4323	4424	4260	4063
2	189	194	216	228	239
3	12	12	14	16	19
4				1	1

Value	S1MWID	S2MWID	S3MWID	S4MWID	S5MWID	S6MWID	S7MWID
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0	9456	12676	11485	13327	12077	10925	12198
1	429	398	415	632	631	683	738
2	14	14	15	18	22	30	35
3	1			1		1	1

Value	S8MWID	S9MWID	S10MWID	S11MWID	S12MWID
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0	10961	9910	12695	11697	10336
1	726	696	776	746	653
2	46	38	39	41	35
3	2	2	3	4	3

Value	R1MEND	R2MEND	R3MEND	R4MEND	R5MEND	R6MEND	R7MEND
.M=Oth missing	38	68	60	61	59	58	63
0	12372	17490	16126	19679	18078	16884	18980
1	217	1709	1485	1351	1198	1027	916
2	17	302	262	244	204	167	144
3	2	68	54	44	37	25	22
4	2	2	1	2	1	3	3
5	2	1	1	1	1	1	1
6	1	1	1	1			
10	1	1	1	1	1		

Value	R8MEND	R9MEND	R10MEND	R11MEND	R12MEND
.M=Oth missing	60	58	79	63	60
0	17503	16374	21308	19933	18202
1	763	662	550	472	415
2	123	105	86	74	61
3	16	15	9	10	7
4	3	2	1	1	1
5	1	1	1	1	1

Value	S1MEND	S2MEND	S3MEND	S4MEND	S5MEND	S6MEND	S7MEND
.M=Oth missing	15	47	39	36	35	38	41
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0	9692	11890	10918	13100	11984	11011	12434
1	177	946	786	695	591	497	422
2	11	166	147	127	103	82	64
3	1	36	22	19	17	8	7
4	2	1	1	1		3	3
5	1	1	1				1
6	1	1	1				

Value	S8MEND	S9MEND	S10MEND	S11MEND	S12MEND
.M=Oth missing	37	28	44	36	35
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0	11303	10282	13201	12225	10787
1	336	290	239	205	186
2	50	38	25	19	16
3	6	7	3	2	2
4	3	1	1	1	1

## How Constructed

RwMRCT reports the number of times a Respondent has been married. It is pulled from the marriage history information and assigned at the first wave the Respondent enters the HRS. The marriage history information provides number of marriages, including the current one. After the first wave, the number of marriages changes if the Respondent reports a marriage beginning between waves or if a change in marital status indicates that one has begun. Additionally, if the Respondent is married in 2 consecutive waves but to different spouses, a marriage is added for the new spouse.

Please note that the maximum number of marriages an individual can report at the first interview varies. If the first interview is Wave 1, there is no maximum; at most, 15 marriages are reported. In Wave 2H the maximum is 15. For all other waves the maximum allowed is 4.

RwMNEV indicates if the Respondent has never been married. If the Respondent reports having an ever-married status but later reports being never-married, s/he remains ever-married, i.e, RwMNEV=0 for the later wave. From Wave 7 and forward, some cases report marital status as annulled, which is treated as never married.

For ever-married Respondents, three additional variables are derived: RwMDIV counts the number of divorces the Respondent has reported; RwMWID counts the number of times the Respondent reports being widowed; and RwMEND counts the number of ended marriages where the ending status (divorce or widowhood) is unknown.

The derivation for number of times marriages end for each of these three variables begins with the individual's marriage history at the first interview to which s/he responds. The number of divorces and widowhoods are counted as well as the number of remaining marriages that ended for which the end status is unknown. At subsequent interviews, RwMDIV and RwMWID counts are increased if a Respondent's marital status changes from married or separated to divorced or widowed, respectively. Similarly, RwMDIV, RwMWID, and RwMEND counts are increased, respectively, if a divorce, widowhood, or any marriage end with an unknown status is reported as occurring between interviews.

Spouse marital and mortality statuses are used to help fill missing or ambiguous marriage ends. Partners living together are treated as having an unmarried or separated status.



The spouse's variables are taken from the Wave "w" spouse's variables, i.e., from the Wave "w" spouse's RWMRCT, RWMNEV, RWMDIV, RWMWID, and RWMEND. These spouse variables are set to .U if the Respondent is unmarried or unpartnered and are set to .V if the Respondent's spouse or partner did not respond in a given wave.

### **Cross Wave Differences in Original HRS Data**

Marriage history is asked of individuals at the first interview to which they respond. The questions generally proceed from current marital status and ask number of marriages, the date the first and most recent marriage began, and either the length or end date of those marriages.

From Wave 2H forward for the HRS sample and for the AHEAD sample from Wave 3A forward, a change from unmarried to married status or vice versa since the last interview triggers questions about whether a marriage has begun or ended since the last interview. If any marital events between interviews are reported, the month and year of each is collected.

The asking and coding of marital status differs from wave to wave. In Waves 1 and 2H, Respondents are specifically asked their marital status as married, partnered, separated, divorced, widowed or never married. The marital status in the public use data also includes a "Married, spouse absent" status that is split between those whose spouse is in a nursing home, and those whose spouse is not institutionalized. In Wave 2A, a single item is used to assess marital status. Response categories include married (spouse present), married (spouse absent), living with someone, separated/divorced, widowed, and never married. The separated and divorced categories are not coded separately.

In Wave 3H, the Respondent is not asked marital status; it is derived from preloaded marital status and a series of questions in the cover sheet section. There is a "corrected" marital status included in the Wave 3H public use data. In addition, the separated and divorced statuses are not coded separately. In Waves 1, 2, and 3H, partnership overrides any other marital status. Marital status in Wave 3A is also derived using questions from the cover sheet section. The separated and divorced statuses are in a single category, and partnership overrides any other marital status.

Beginning in Wave 4, all partnered and unmarried single Respondents are asked marital status. Through Wave 6, the status must be an unmarried status, treating separated as an unmarried category apart from divorced. Beginning in Wave 7, married or annulled may be coded in addition to the unmarried statuses. Marital status in the raw data is set to married or separated for Respondents determined to have these statuses from cover sheet section questions.

The cover sheet section sequence of questions that lead to a marital status and determination of "coupleness," are included in the data starting in Wave 3. These questions are examined to help set the cleaned marital status.

Respondents who have an unmarried to married transition between interviews, or vice versa, are asked about marriages and ends of marriages (divorce or widowhood) that may have occurred between interviews at all waves after the initial interview in which a Respondent appears.

Marriage history is asked of individuals at the first interview to which they respond. The questions generally proceed from current marital status and ask the number of marriages, the date the first and most recent marriage began, and either the length or end date of those marriages. For previous marriages, questions ask how it ended.

The skip pattern and amount of marital history information gathered varies from wave to wave. In Wave 1, data are collected on 3 past marriages, and the current or most recent marriage. For new Respondents in Wave 2H, data are collected only about the first marriage. For new Respondents in Wave 3H, data are collected on the first and most recent marriages. In Waves 4 and 5, new Respondents are asked about 3 past marriages and the current marriage. In Wave 6, new Respondents are asked about 3 past marriages. In Wave 6, an apparent skip pattern problem occurred so that the current marriage data are not collected for new Respondents who are married. This was corrected in Wave 7.

In Wave 1, partnered Respondents are asked the timing of their most recent marriage, but not how it ended. For other unmarried Respondents, the current marital status reveals how the most recent marriage ended. The ending status of up to 3 past marriages is asked. There is no maximum for the number of marriages the Respondent can report, though no more than 15 marriages are reported. If the Respondent reports more than 4 marriages, the specific ending status of additional marriages is unknown.

Except for overlap cases, the first interview for AHEAD sample members is Wave 2A. Here Respondents can report a maximum of 4 marriages (meaning 4 or more), and are asked about their current, or most recent marriage (if currently living with someone). There are some issues with the questions in this section. First, the "year married" question, which follows the marital status question, presumably is referring to the Respondent's current spouse. However, at least a couple of people may have misunderstood the question. When we compared the marriage beginning dates reported by overlap cases in HRS W1 and AHEAD W1, we found that four people, all of whom had multiple marriages, gave dates that corresponded to previous marriages. Second, Respondents who report "living with someone" are then asked if they have ever been married, and if so, what year that marriage ended. The problem with this sequence of questions is that a person can be married more than one time, in which case we assume that s/he is reporting on the most recent marriage.

For new Respondents in Wave 2H, the Respondent can report a maximum of 15 marriages. Current marital status reveals the way the most recent marriage ended. Marital history asks only how the first marriage ended, if the Respondent has more than one marriage. If the Respondent reports more than 2 marriages, the way the additional marriages ended is unknown.

For Waves 3A and 3H, new Respondents can report being married a maximum of 4 times. They are asked how the first and most recent marriages ended, if ever married. If the Respondent reports more than 2 marriages, the way the additional marriages ended is unknown.

From Wave 4 forward, new Respondents can report being married a maximum of 4 times. They are asked how the first three, and most recent, marriages ended, if ever married, for a total of up to 4 marriage end statuses. In Wave 6, because of a question skip problem, the fourth marriage information was not collected. The way the most recent marriage ended can be taken from current marital status.

## HRS Variables Used

### HRS 1992:

V10225	A10:CURRENT MAR STAT:IND
V225	A10:CURRENT MARR STA:IMP
V228	A10B:EVER BEEN MARRIED
V229	A10C:# OF TIMES MARRIED
V232	A10E:LAST MARR END-MO
V233	A10E:LAST MARR END-YEAR
V234	CKPT:TIMES BEEN MARRIED
V239	A11:1ST MARRIAGE
V240	A12:TOTAL TIMES MARRIED
V242	A14:MARR1:DVRCD/WDOWD/OTH
V245	A14:MARR2:DVRCD/WDOWD/OTH
V248	A14:MARR3:DVRCD/WDOWD/OTH

### AHEAD 1993:

B150	A11. R'S MARITAL STATUS
B158	A11c. LIVE TGHR: EVER MARRIED
B160	A11e. LIVE TGHR: DIVORCED OR WIDOWED
B162	A11g. DIV/WID: YEAR DIV/WID MOST RECENT
B166	A13. # OF MARRIAGES EVER

### HRS 1994:

W200	A1. Marital Status
W201	A2. Marriage Start After
W202	A3. Marriage Month
W203	A3. Marriage Year
W204	A4. Divorced/Widowed Since
W205	A5. Divorced/Widowed-Month
W206	A5. Divorced/Widowed-Year
W207	A6. Ever Been Married?
W208	A7. Number of Times Married
W210	A9. Marriage End Divorce/Widow
AHEAD 1995:	
D226	CS4.R SAME SP/P
D227	CS5.SP/P ALIVE
D228	CS6.MO/YR SEPARATE/DIE
D229	CS6A.YEAR SEPARATE/DIE
D240	CS11.R-WHERE LIVE
D241	CS12.COUPLE LIVE TOGETHER
D247	CS15.MO/YR ST LIVE W/NEW SP/P
D248	CS15A.YEAR ST LIVE W/NEW SP/P
D676	A21.L-EVER MARRIED
D677	A21A.# MARRIAGES
D680	A22B.FIRST MAR-END DIV/WID
D684	A23B.RECENT MAR-END DIV/WID
D739	A40.POST W1 MARRIAGE START
D741	A40A.POST W1 MARRIAGE MO
D742	A40C.YEAR
D746	A41.POST W1 DIV/SWIDOWED
D747	A41A.POST W1 DIV/WIDOW MOR
D748	A41B.YEAR
DMSTATR	HRS 95: Marital Status (w/ partnered)
HRS 1996:	
E226	CS4.R SAME SP/P
E227	CS5.SP/P ALIVE
E228	CS6.MO/YR SEPARATE/DIE
E229	CS6A.YEAR SEPARATE/DIE
E247	CS15.MO/YR ST LIVE W/NEW SP/P
E248	CS15A.YEAR ST LIVE W/NEW SP/P
E256A	MARRIAGE STATUS - CORRECTED
E676	A21.L-EVER MARRIED
E677	A21A.# MARRIAGES
E680	A22B.FIRST MAR-END DIV/WID
E684	A23B.RECENT MAR-END DIV/WID
E739	A40.POST W1 MARRIAGE START
E741	A40A.POST W1 MARRIAGE MO
E742	A40C.YEAR
E746	A41.POST W1 DIV/SWIDOWED
E747	A41A.POST W1 DIV/WIDOW MOR
E748	A41B.YEAR
E750	A42.FIRST MARRIAGE ENDED
HRS 1998:	
F1059	A40.POST W1 MARRIAGE START
F1061	A40A.POST W1 MARRIAGE MO
F1062	A40C.YEAR
F1066	A41.POST W1 DIV/WIDOWED
F1067	A41A.POST W1 DIV/WIDOW MOR
F1068	A41B.YEAR
F1071	A43A.MARITAL STATUS, ASSIGNED
F1072	A44.# MARRIAGES
F1073	A45.FIRST MAR-YR BEGIN

F1074	A45A.FIRST MAR-MON BEGIN
F1075	A45B.FIRST MAR-END DIV/WID
F1079	A46B.SECOND MAR-END DIV/WID
F1083	A47B.THIRD MAR-END DIV/WID
F1087	A48B.RECENT MAR-END DIV/WID
F502	CS4.1ST R SAME SPOUSE/P
F504	CS5.PRELOAD SPOUSE/P ALIVE
F506	CS6A.YEAR SEPARATE/DIE
F526	CS15MO./YR S/P START LIVE TOGETHER
F527	CS15YR.YEAR ST LIVE W/NEW SP/P
HRS 2000:	
G1146	A40.POST W1 MARRIAGE START
G1148	A40A.POST W1 MARRIAGE MO
G1149	A40C.YEAR
G1153	A41.POST W1 DIV/WIDOWED
G1154	A41A.POST W1 DIV/WIDOW MOR
G1155	A41B.YEAR
G1158	A43A.MARITAL STATUS_ASSIGNED
G1159	A44.# MARRIAGES
G1160	A45.FIRST MAR-YR BEGIN
G1161	A45A.FIRST MAR-MON BEGIN
G1162	A45B.FIRST MAR-END DIV/WID
G1166	A46B.SECOND MAR-END DIV/WID
G1170	A47B.THIRD MAR-END DIV/WID
G1174	A48B.RECENT MAR-END DIV/WID
G543	CS4.1ST R SAME SPOUSE/P
G545	CS5.PRELOAD SPOUSE/P ALIVE
G547	CS6A.YEAR SEPARATE/DIE
G567	CS15MO./YR S/P START LIVE TOGETHER
G568	CS15YR.YEAR ST LIVE W/NEW SP/P
HRS 2002:	
HA020	1ST R SAME SP/P
HA023	PREVIOUS WAVE SP/P ALIVE
HA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
HA036	MO STARTED LIVING WITH NEW SP/P
HA037	YEAR STARTED LIVING WITH NEW SP/P
HB055	NEW MARRIAGE SINCE PREVIOUS WAVE
HB056	BETWEEN WAVE MARRIAGE START-MONTH
HB057	BETWEEN WAVE MARRIAGE START-YEAR
HB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
HB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
HB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
HB065	NUMBER OF MARRIAGES
HB066_1	FIRST MARRIAGE YEAR BEGAN
HB067_1	FIRST MARRIAGE MONTH BEGAN
HB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
HB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
HB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
HMARITAL	MARITAL STATUS
HPN_SP	2002 SPOUSE/PARTNER PERSON NUMBER
HSUBHH	HRS 2002 SUB-HOUSEHOLD ID (Char)
HRS 2004:	
JA020	1ST R SAME SP/P
JA023	PREVIOUS WAVE SP/P ALIVE
JA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
JA036	MO STARTED LIVING WITH NEW SP/P
JA037	YEAR STARTED LIVING WITH NEW SP/P
JB055	NEW MARRIAGE SINCE PREVIOUS WAVE
JB056	BETWEEN WAVE MARRIAGE START-MONTH

JB057	BETWEEN WAVE MARRIAGE START-YEAR
JB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
JB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
JB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
JB065	NUMBER OF MARRIAGES
JB066_1	FIRST MARRIAGE YEAR BEGAN
JB067_1	FIRST MARRIAGE MONTH BEGAN
JB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
JB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
JB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
JPN_SP	2004 SPOUSE/PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
HRS 2006:	
KA020	1ST R SAME SP/P
KA023	PREVIOUS WAVE SP/P ALIVE
KA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
KA036	MO STARTED LIVING WITH NEW SP/P
KA037	YEAR STARTED LIVING WITH NEW SP/P
KB055	NEW MARRIAGE SINCE PREVIOUS WAVE
KB056	BETWEEN WAVE MARRIAGE START-MONTH
KB057	BETWEEN WAVE MARRIAGE START-YEAR
KB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
KB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
KB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
KB065	NUMBER OF MARRIAGES
KB066_1	FIRST MARRIAGE YEAR BEGAN
KB067_1	FIRST MARRIAGE MONTH BEGAN
KB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
KB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
KB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
KPN_SP	2006 SPOUSE/PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
HRS 2008:	
LA020	1ST R SAME SP/P
LA023	PREVIOUS WAVE SP/P ALIVE
LA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
LA036	MO STARTED LIVING WITH NEW SP/P
LA037	YEAR STARTED LIVING WITH NEW SP/P
LB055	NEW MARRIAGE SINCE PREVIOUS WAVE
LB056	BETWEEN WAVE MARRIAGE START-MONTH
LB057	BETWEEN WAVE MARRIAGE START-YEAR
LB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
LB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
LB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
LB065	NUMBER OF MARRIAGES
LB066_1	FIRST MARRIAGE YEAR BEGAN
LB067_1	FIRST MARRIAGE MONTH BEGAN
LB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
LB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
LB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
LPN_SP	2008 SPOUSE/PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
HRS 2010:	
MA020	1ST R SAME SP/P
MA023	PREVIOUS WAVE SP/P ALIVE
MA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
MA036	MO STARTED LIVING WITH NEW SP/P
MA037	YEAR STARTED LIVING WITH NEW SP/P
MB055	NEW MARRIAGE SINCE PREVIOUS WAVE

MB056	BETWEEN WAVE MARRIAGE START-MONTH
MB057	BETWEEN WAVE MARRIAGE START-YEAR
MB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
MB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
MB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
MB065	NUMBER OF MARRIAGES
MB066_1	FIRST MARRIAGE YEAR BEGAN
MB067_1	FIRST MARRIAGE MONTH BEGAN
MB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
MB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
MB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
MPN_SP	2010 SPOUSE/PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
HRS 2012:	
NA020	1ST R SAME SP/P
NA023	PREVIOUS WAVE SP/P ALIVE
NA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
NA036	MO STARTED LIVING WITH NEW SP/P
NA037	YEAR STARTED LIVING WITH NEW SP/P
NB055	NEW MARRIAGE SINCE PREVIOUS WAVE
NB056	BETWEEN WAVE MARRIAGE START-MONTH
NB057	BETWEEN WAVE MARRIAGE START-YEAR
NB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
NB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
NB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
NB065	NUMBER OF MARRIAGES
NB066_1	FIRST MARRIAGE YEAR BEGAN
NB067_1	FIRST MARRIAGE MONTH BEGAN
NB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
NB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
NB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
NPN_SP	2012 SPOUSE/PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
HRS 2014:	
OA020	1ST R SAME SP/P
OA023	PREVIOUS WAVE SP/P ALIVE
OA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
OA036	MO STARTED LIVING WITH NEW SP/P
OA037	YEAR STARTED LIVING WITH NEW SP/P
OB055	NEW MARRIAGE SINCE PREVIOUS WAVE
OB056	BETWEEN WAVE MARRIAGE START-MONTH
OB057	BETWEEN WAVE MARRIAGE START-YEAR
OB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
OB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
OB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
OB065	NUMBER OF MARRIAGES
OB066_1	FIRST MARRIAGE YEAR BEGAN
OB067_1	FIRST MARRIAGE MONTH BEGAN
OB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
OB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
OB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
OPN_SP	2014 SPOUSE/PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
Tracker:	
AALIVE	1992 VITAL STATUS
AIWTYPE	1992 INTERVIEW TYPE
APPN	1992 SPOUSE-PARTNER PERSON NUMBER
CALIVE	1994 VITAL STATUS
CIWTYPE	1994 INTERVIEW TYPE

CPPN	1994	SPOUSE-PARTNER PERSON NUMBER
DALIVE	1995	VITAL STATUS
DIWTYPE	1995	INTERVIEW TYPE
DPPN	1995	SPOUSE-PARTNER PERSON NUMBER
EALIVE	1996	VITAL STATUS
EIWTYPE	1996	INTERVIEW TYPE
EPPN	1996	SPOUSE-PARTNER PERSON NUMBER
FALIVE	1998	VITAL STATUS
FIWTYPE	1998	INTERVIEW TYPE
FPPN	1998	SPOUSE-PARTNER PERSON NUMBER
GALIVE	2000	VITAL STATUS
GIWTYPE	2000	INTERVIEW TYPE
GPPN	2000	SPOUSE-PARTNER PERSON NUMBER
HALIVE	2002	VITAL STATUS
HIWTYPE	2002	INTERVIEW TYPE
HPPN	2002	SPOUSE-PARTNER PERSON NUMBER
JALIVE	2004	VITAL STATUS
JIWTYPE	2004	INTERVIEW TYPE
JPPN	2004	SPOUSE-PARTNER PERSON NUMBER
KALIVE	2006	VITAL STATUS
KIWTYPE	2006	INTERVIEW TYPE
KPPN	2006	SPOUSE-PARTNER PERSON NUMBER
LALIVE	2008	VITAL STATUS
LIWTYPE	2008	INTERVIEW TYPE
LPPN	2008	SPOUSE-PARTNER PERSON NUMBER
MALIVE	2010	VITAL STATUS
MIWTYPE	2010	INTERVIEW TYPE
MPPN	2010	SPOUSE-PARTNER PERSON NUMBER
NALIVE	2012	VITAL STATUS
NIWTYPE	2012	INTERVIEW TYPE
NPPN	2012	SPOUSE-PARTNER PERSON NUMBER
OALIVE	2014	VITAL STATUS
OIWTYPE	2014	INTERVIEW TYPE
OPPN	2014	SPOUSE-PARTNER PERSON NUMBER

### Length of current and longest marriage

Wave	Variable Name	Variable Label	Type
1	R1MCURLN	R1MCURLN:W1 R length of current marriage	Cont
2	R2MCURLN	R2MCURLN:W2 R length of current marriage	Cont
3	R3MCURLN	R3MCURLN:W3 R length of current marriage	Cont
4	R4MCURLN	R4MCURLN:W4 R length of current marriage	Cont
5	R5MCURLN	R5MCURLN:W5 R length of current marriage	Cont
6	R6MCURLN	R6MCURLN:W6 R length of current marriage	Cont
7	R7MCURLN	R7MCURLN:W7 R length of current marriage	Cont
8	R8MCURLN	R8MCURLN:W8 R length of current marriage	Cont
9	R9MCURLN	R9MCURLN:W9 R length of current marriage	Cont
10	R10MCURLN	R10MCURLN:W10 R length of current marriage	Cont
11	R11MCURLN	R11MCURLN:W11 R length of current marriage	Cont
12	R12MCURLN	R12MCURLN:W12 R length of current marriage	Cont
1	S1MCURLN	S1MCURLN:W1 S length of current marriage	Cont
2	S2MCURLN	S2MCURLN:W2 S length of current marriage	Cont
3	S3MCURLN	S3MCURLN:W3 S length of current marriage	Cont
4	S4MCURLN	S4MCURLN:W4 S length of current marriage	Cont
5	S5MCURLN	S5MCURLN:W5 S length of current marriage	Cont
6	S6MCURLN	S6MCURLN:W6 S length of current marriage	Cont
7	S7MCURLN	S7MCURLN:W7 S length of current marriage	Cont
8	S8MCURLN	S8MCURLN:W8 S length of current marriage	Cont
9	S9MCURLN	S9MCURLN:W9 S length of current marriage	Cont
10	S10MCURLN	S10MCURLN:W10 S length of current marriage	Cont
11	S11MCURLN	S11MCURLN:W11 S length of current marriage	Cont
12	S12MCURLN	S12MCURLN:W12 S length of current marriage	Cont
1	R1MLEN	R1MLEN:W1 R length of longest marriage	Cont
2	R2MLEN	R2MLEN:W2 R length of longest marriage	Cont
3	R3MLEN	R3MLEN:W3 R length of longest marriage	Cont
4	R4MLEN	R4MLEN:W4 R length of longest marriage	Cont
5	R5MLEN	R5MLEN:W5 R length of longest marriage	Cont
6	R6MLEN	R6MLEN:W6 R length of longest marriage	Cont
7	R7MLEN	R7MLEN:W7 R length of longest marriage	Cont
8	R8MLEN	R8MLEN:W8 R length of longest marriage	Cont
9	R9MLEN	R9MLEN:W9 R length of longest marriage	Cont
10	R10MLEN	R10MLEN:W10 R length of longest marriage	Cont
11	R11MLEN	R11MLEN:W11 R length of longest marriage	Cont
12	R12MLEN	R12MLEN:W12 R length of longest marriage	Cont
1	S1MLEN	S1MLEN:W1 S length of longest marriage	Cont
2	S2MLEN	S2MLEN:W2 S length of longest marriage	Cont
3	S3MLEN	S3MLEN:W3 S length of longest marriage	Cont
4	S4MLEN	S4MLEN:W4 S length of longest marriage	Cont
5	S5MLEN	S5MLEN:W5 S length of longest marriage	Cont
6	S6MLEN	S6MLEN:W6 S length of longest marriage	Cont
7	S7MLEN	S7MLEN:W7 S length of longest marriage	Cont
8	S8MLEN	S8MLEN:W8 S length of longest marriage	Cont
9	S9MLEN	S9MLEN:W9 S length of longest marriage	Cont
10	S10MLEN	S10MLEN:W10 S length of longest marriage	Cont
11	S11MLEN	S11MLEN:W11 S length of longest marriage	Cont
12	S12MLEN	S12MLEN:W12 S length of longest marriage	Cont
1	R1MLENM	R1MLENM:W1 R # marriage lengths missng	Cont
2	R2MLENM	R2MLENM:W2 R # marriage lengths missng	Cont
3	R3MLENM	R3MLENM:W3 R # marriage lengths missng	Cont
4	R4MLENM	R4MLENM:W4 R # marriage lengths missng	Cont
5	R5MLENM	R5MLENM:W5 R # marriage lengths missng	Cont
6	R6MLENM	R6MLENM:W6 R # marriage lengths missng	Cont
7	R7MLENM	R7MLENM:W7 R # marriage lengths missng	Cont
8	R8MLENM	R8MLENM:W8 R # marriage lengths missng	Cont
9	R9MLENM	R9MLENM:W9 R # marriage lengths missng	Cont
10	R10MLENM	R10MLENM:W10 R # marriage lengths missng	Cont
11	R11MLENM	R11MLENM:W11 R # marriage lengths missng	Cont
12	R12MLENM	R12MLENM:W12 R # marriage lengths missng	Cont
1	S1MLENM	S1MLENM:W1 S # marriage lengths missng	Cont



2	S2MLENM	S2MLENM:W2 S # marriage lengths missng	Cont
3	S3MLENM	S3MLENM:W3 S # marriage lengths missng	Cont
4	S4MLENM	S4MLENM:W4 S # marriage lengths missng	Cont
5	S5MLENM	S5MLENM:W5 S # marriage lengths missng	Cont
6	S6MLENM	S6MLENM:W6 S # marriage lengths missng	Cont
7	S7MLENM	S7MLENM:W7 S # marriage lengths missng	Cont
8	S8MLENM	S8MLENM:W8 S # marriage lengths missng	Cont
9	S9MLENM	S9MLENM:W9 S # marriage lengths missng	Cont
10	S10MLENM	S10MLENM:W10 S # marriage lengths missng	Cont
11	S11MLENM	S11MLENM:W11 S # marriage lengths missng	Cont
12	S12MLENM	S12MLENM:W12 S # marriage lengths missng	Cont

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MCURLN	10211	27.47	11.10	0.0	53.2
R2MCURLN	13550	34.50	14.65	0.1	77.0
R3MCURLN	12216	35.50	14.70	0.0	75.3
R4MCURLN	14234	35.16	14.97	0.0	74.4
R5MCURLN	12717	36.00	15.13	0.0	75.2
R6MCURLN	11422	36.99	15.36	0.0	74.7
R7MCURLN	12775	34.86	16.02	0.0	76.2
R8MCURLN	11455	36.02	16.30	0.0	76.2
R9MCURLN	10426	36.84	16.46	0.0	78.4
R10MCURLN	13285	33.15	16.76	0.0	75.3
R11MCURLN	12048	34.07	16.87	0.0	76.5
R12MCURLN	10676	34.68	16.90	0.0	78.9
S1MCURLN	9556	27.51	11.08	0.0	53.2
S2MCURLN	12708	34.60	14.57	0.1	77.0
S3MCURLN	11599	35.75	14.55	0.0	75.3
S4MCURLN	13465	35.37	14.90	0.0	74.4
S5MCURLN	12233	36.18	15.01	0.0	75.2
S6MCURLN	11044	37.18	15.25	0.0	74.7
S7MCURLN	12206	35.21	15.90	0.0	76.2
S8MCURLN	10991	36.30	16.19	0.0	73.5
S9MCURLN	9928	37.23	16.29	0.0	72.7
S10MCURLN	12295	33.70	16.75	0.0	75.3
S11MCURLN	11234	34.54	16.82	0.0	76.5
S12MCURLN	9881	35.25	16.83	0.0	78.9
R1MLEN	12652	26.31	11.11	0.0	53.2
R2MLEN	19642	32.31	15.73	0.0	79.0
R3MLEN	17991	33.33	15.79	0.0	79.0
R4MLEN	21384	33.03	15.92	0.0	79.0
R5MLEN	19579	33.86	16.03	0.0	77.0
R6MLEN	18165	34.53	16.32	0.0	77.0
R7MLEN	20129	32.59	16.85	0.0	76.2
R8MLEN	18469	33.48	17.12	0.0	78.3
R9MLEN	17217	34.08	17.35	0.0	78.4
R10MLEN	22034	29.76	17.94	0.0	80.8
R11MLEN	20554	30.24	18.19	0.0	76.5
R12MLEN	18747	30.55	18.34	0.0	78.9
S1MLEN	9900	28.51	9.58	0.0	53.2
S2MLEN	13088	34.86	13.83	0.0	77.0
S3MLEN	11915	36.16	13.65	0.0	75.3

S4MLEN	13978	35.84	13.84	0.0	74.4
S5MLEN	12730	36.70	13.87	0.0	75.2
S6MLEN	11639	37.57	14.17	0.0	74.7
S7MLEN	12972	35.50	15.03	0.0	76.2
S8MLEN	11735	36.57	15.32	0.0	73.5
S9MLEN	10646	37.41	15.45	0.0	72.7
S10MLEN	13513	33.18	16.48	0.0	75.3
S11MLEN	12488	33.73	16.70	0.0	76.5
S12MLEN	11027	34.17	16.87	0.0	78.9
R1MLENM	12652	0.04	0.26	0.0	11.0
R2MLENM	19642	0.15	0.44	0.0	11.0
R3MLENM	17991	0.14	0.43	0.0	11.0
R4MLENM	21384	0.11	0.38	0.0	11.0
R5MLENM	19579	0.10	0.37	0.0	11.0
R6MLENM	18165	0.10	0.36	0.0	5.0
R7MLENM	20129	0.08	0.33	0.0	5.0
R8MLENM	18469	0.08	0.32	0.0	5.0
R9MLENM	17217	0.08	0.32	0.0	5.0
R10MLENM	22034	0.06	0.27	0.0	5.0
R11MLENM	20554	0.06	0.27	0.0	5.0
R12MLENM	18747	0.06	0.27	0.0	5.0
S1MLENM	9900	0.03	0.21	0.0	6.0
S2MLENM	13088	0.11	0.39	0.0	6.0
S3MLENM	11915	0.11	0.38	0.0	6.0
S4MLENM	13978	0.08	0.32	0.0	5.0
S5MLENM	12730	0.07	0.31	0.0	5.0
S6MLENM	11639	0.08	0.31	0.0	5.0
S7MLENM	12972	0.06	0.29	0.0	5.0
S8MLENM	11735	0.06	0.28	0.0	5.0
S9MLENM	10646	0.06	0.27	0.0	4.0
S10MLENM	13513	0.04	0.23	0.0	4.0
S11MLENM	12488	0.05	0.23	0.0	4.0
S12MLENM	11027	0.05	0.24	0.0	4.0

## How Constructed

RwMCURLN-length of the current marriage in years, RwMLEN-the length of the longest marriage up through Wave "w," and RwMLENM-number of marriage lengths which are unknown are assigned by looking at marital history dates, marital events, and marriage status.

At the first interview, the date the most recent marriage began is asked. This date is kept across interviews until the marriage ends in divorce or widowhood. If the Respondent begins a new marriage, the current marriage begin date is reset to reflect this. Data are not collected on all marriages: up to four previous marriages if the Respondent enters the HRS in Waves 1, 4, 5, or 7 forward; up to three previous marriages if the Respondent enters the study in Wave 6; or up to two previous marriages if the Respondent enters in Waves 2H or 3. If the first interview is Wave 2A, there is information on at most one previous marriage. If the Respondent gives a marriage date or length that indicates being married before age 12, the dates or length are treated as missing, depending on what information is provided.

The spouse's information is examined, if available, to fill missing current marriage begin dates if they are missing from the retrospective marriage history at a Respondent's first interview. This step is introduced to address the skip pattern problem in Wave 6, where no current marriage begin dates were collected for married new interviewees. The problem was

corrected in Wave 7.

Missing dates in the marriage history data are abundant. For marital events between interviews, there is about a 2 year range when they can occur. If dates are missing for between interview events, they are estimated based on interview and other marriage dates so as to compare lengths of marriages.

If the Respondent is married (or separated) at the interview, the length of the current marriage is calculated as the time from the marriage begin date to the interview end date. Separations are treated as continuing marriages. If the Respondent is unmarried, RwMCURLN is missing.

The spouse's variables are taken from the Wave "w" spouse's variables, i.e., from the Wave "w" spouse's RwMCURLN, RwMLEN, and RwMLENM. These spouse variables are set to .U if the Respondent is unmarried or unpartnered and are set to .V if the Respondent's spouse or partner did not respond in a given wave.

NOTE: In previous versions of the RAND HRS Longitudinal File, the length of current marriage for married Respondents whose first interview is Wave 4 or 5 was missing much of the time due to a programming error. This also affects the length of longest marriage for some cases. The problem is corrected in Version D, but analysts using this variable may want to re-examine results based on it in earlier versions.

Another programming problem left many unmarried AHEAD Respondents with a longest marriage of zero years and a missing marriage length, when a marriage length is available. Most of these are widows, and all are not married in Wave 2A. This is corrected in Version H.

## **Cross Wave Differences in Original HRS Data**

The asking and coding of marital status differs from wave to wave. In Waves 1 and 2H, Respondents are specifically asked their marital status as married, partnered, separated, divorced, widowed or never married. The marital status in the public use data also includes a "Married, spouse absent" status that is split between those whose spouse is in a nursing home, and those whose spouse is not institutionalized. In Wave 2A, a single item is used to assess marital status. Response categories include married (spouse present), married (spouse absent), living with someone, separated/divorced, widowed, and never married. The separated and divorced categories are not coded separately.

In Wave 3H, the Respondent is not asked marital status; it is derived from preloaded marital status and a series of questions in the cover sheet section. There is a "corrected" marital status included in the Wave 3H public use data. In addition, the separated and divorced statuses are not coded separately. In Waves 1, 2, and 3H, partnership overrides any other marital status. Marital status in Wave 3A is also derived using questions from the cover sheet section. The separated and divorced statuses are in a single category, and partnership overrides any other marital status.

Beginning in Wave 4, all partnered and unmarried single Respondents are asked marital status. Through Wave 6, the status must be an unmarried status, treating separated as an unmarried category apart from divorced. Beginning in Wave 7, married or annulled may be coded, in addition to the unmarried statuses. Marital status in the raw data is set to married or separated for Respondents determined to have these statuses from cover sheet section questions.

The cover sheet section sequence of questions that lead to a marital status and determination of "coupleness," are included in the data starting in Wave 3. These questions are examined to help set the cleaned marital status. Included in the cover sheet questions are dates for when a spouse died or separated, and when the Respondent started living with a new spouse or partner.

Respondents who have an unmarried to married transition between interviews, or vice versa, are asked about marriages and ends of marriages (divorce or widowhood) that may have occurred between interviews at all waves after the initial interview

in which a Respondent appears. If a marriage, divorce, or widowhood is reported, the month and year of the event is asked.

Marriage history is asked of individuals at the first interview to which they respond. The questions generally proceed from current marital status and ask the number of marriages, the date the first and most recent marriage began, and either the length or end date of those marriages. For previous marriages, questions ask how it ended.

The skip pattern and amount of marital history information gathered varies from wave to wave. In Wave 1, data are collected on three past marriages, and the current or most recent marriage. For new Respondents in Wave 2H, data are collected only about the first marriage. For new Respondents in Wave 3H, data are collected on the first and most recent marriages. In Waves 4 and 5, new Respondents are asked about three past marriages and the current marriage. In Wave 6, new Respondents are asked about three past marriages. In Wave 6, an apparent skip pattern problem occurred so that the current marriage data were not collected for new Respondents who were married. This was corrected in Wave 7 so that information on the current and three past marriages is collected.

In Wave 1, there is no maximum for the number of marriages the Respondent can report. If the Respondent reports more than four marriages, then all information about at least some marriages will be completely missing. The beginning and end month of the current or most recent marriage are asked. For past marriages, only the year is obtained.

Except for overlap cases, the first interview for AHEAD sample members is Wave 2A. Here Respondents can report a maximum of four marriages (meaning four or more), and are asked for details about only their current, or most recent marriage (if currently living with someone). There are some issues with the questions in this section. First, the "year married" question, which follows the marital status question, presumably is referring to the Respondent's current spouse. However, at least a couple of people may have misunderstood the question. When we compared the marriage beginning dates reported by overlap cases in HRS W1 and AHEAD W1, we found that four people, all of whom had multiple marriages, gave dates that corresponded to previous marriages. Second, Respondents who report "living with someone" are then asked if they have ever been married, and if so, what year that marriage ended. The problem with this sequence of questions is that a person can be married more than one time, in which case we assume that s/he is reporting on the most recent marriage. For those not married, then the year the marriage ended and the length of the marriage are ascertained.

For new Respondents in Wave 2H, the Respondent can report a maximum of 15 marriages. The begin and end year of the first marriage is asked if the Respondent reports more than one marriage. If the Respondent only reports one marriage, the begin month and, if applicable, end month of the most recent marriage are only asked if the event occurred between interviews. If the Respondent reports more than two marriages, the information about any except the first, and perhaps the most recent, marriage will be completely missing.

For Waves 3A and 3H, new Respondents can report being married a maximum of four times. They are asked the year when the first and most recent marriages began. If a begin year is after 1992, the month of marriage is also asked. If the marriage ended, the Respondent is asked how many years it lasted. If the Respondent reports more than two marriages, the information about any besides the first and most recent is completely missing.

From Wave 4 forward, new Respondents can report a maximum of four marriages. They are asked the month and year the first three and most recent marriages began and how many years each marriage lasted. In these waves there can be information about up to four marriages, which is the maximum number of marriages that can be reported, so all known marriages are inquired about. In Wave 6, because of a question skip pattern problem, the fourth marriage information was not collected. The month and year that the current marriage began is missing for all new interviewees who were newly married. The month and year of the fourth marriage is missing for those with four marriages.

**HRS Variables Used**

## HRS 1992:

V10225	A10:CURRENT MAR STAT:IND
V225	A10:CURRENT MARR STA:IMP
V226	A10A:DATE MARRIED-MONTH
V227	A10A:DATE MARRIED-YEAR
V228	A10B:EVER BEEN MARRIED
V230	A10D:LAST MARR BEGIN-MO
V233	A10E:LAST MARR END-YEAR
V234	CKPT:TIMES BEEN MARRIED
V235	A10G:END LAST MARR-MONTH
V236	A10G:END LAST MARR-YR
V237	A10H:BEGIN LAST MARR-MO
V238	A10H:BEGIN LAST MARR-YR
V239	A11:1ST MARRIAGE
V240	A12:TOTAL TIMES MARRIED
V241	A13:MAR1:YEAR BEGAN
V242	A14:MAR1:DVRCD/WDOWD/OTH
V243	A15:MAR1:YEAR ENDED
V244	A13:MAR2:YEAR BEGAN
V245	A14:MAR2:DVRCD/WDOWD/OTH
V246	A15:MAR2:YEAR ENDED
V247	A13:MAR3:YEAR BEGAN
V249	A15:MAR3:YEAR ENDED

## AHEAD 1993:

B150	A11. R'S MARITAL STATUS
B156	A11a. YEAR MARRIED
B158	A11c. LIVE TGHR: EVER MARRIED
B159	A11d. LIVE TGHR: YEAR MARRIAGE ENDED
B160	A11e. LIVE TGHR: DIVORCED OR WIDOWED
B161	A11f. LIVE TGHR: YRS MARRIED MOST RECENT
B162	A11g. DIV/WID: YEAR DIV/WID MOST RECENT
B163	A11h. DIV/WID: YEARS MARRIED MOST RECENT
B166	A13. # OF MARRIAGES EVER

## HRS 1994:

W200	A1. Marital Status
W201	A2. Marriage Start After
W202	A3. Marriage Month
W203	A3. Marriage Year
W204	A4. Divorced/Widowed Since
W205	A5. Divorced/Widowed-Month
W206	A5. Divorced/Widowed-Year
W207	A6. Ever Been Married?
W208	A7. Number of Times Married
W209	A8. 1st Marriage-Year Begin
W210	A9. Marriage End Divorce/Widow
W211	A10. 1st Marriage-Year End

## AHEAD 1995:

D226	CS4.R SAME SP/P
D227	CS5.SP/P ALIVE
D228	CS6.MO/YR SEPARATE/DIE
D229	CS6A.YEAR SEPARATE/DIE
D247	CS15.MO/YR ST LIVE W/NEW SP/P
D248	CS15A.YEAR ST LIVE W/NEW SP/P
D676	A21.L-EVER MARRIED
D677	A21A.# MARRIAGES
D678	A22.FIRST MAR-YR BEGIN
D679	A22A. FIRST MAR-MO BEGIN
D680	A22B.FIRST MAR-END DIV/WID

D681	A22C.FIRST MAR-YRS MARRIED
D682	A23.RECENT MAR-YR BEGIN
D683	A23A. RECENT MAR-MO BEGIN
D684	A23B.RECENT MAR-END DIV/WID
D685	A23C.RECENT MAR-YRS MARRIED
D739	A40.POST W1 MARRIAGE START
D741	A40A.POST W1 MARRIAGE MO
D742	A40C.YEAR
D746	A41.POST W1 DIV/SWIDOWED
D747	A41A.POST W1 DIV/WIDOW MOR
D748	A41B.YEAR
DMSTATR	HRS 95: Marital Status (w/ partnered)
HRS 1996:	
E226	CS4.R SAME SP/P
E227	CS5.SP/P ALIVE
E228	CS6.MO/YR SEPARATE/DIE
E229	CS6A.YEAR SEPARATE/DIE
E247	CS15.MO/YR ST LIVE W/NEW SP/P
E248	CS15A.YEAR ST LIVE W/NEW SP/P
E256A	MARRIAGE STATUS - CORRECTED
E676	A21.L-EVER MARRIED
E677	A21A.# MARRIAGES
E678	A22.FIRST MAR-YR BEGIN
E679	A22A.FIRST MAR-MO BEGIN
E680	A22B.FIRST MAR-END DIV/WID
E681	A22C.FIRST MAR-YRS MARRIED
E682	A23.RECENT MAR-YR BEGIN
E683	A23A.RECENT MAR-MO BEGIN
E684	A23B.RECENT MAR-END DIV/WID
E685	A23C.RECENT MAR-YRS MARRIED
E739	A40.POST W1 MARRIAGE START
E741	A40A.POST W1 MARRIAGE MO
E742	A40C.YEAR
E746	A41.POST W1 DIV/SWIDOWED
E747	A41A.POST W1 DIV/WIDOW MOR
E748	A41B.YEAR
E750	A42.FIRST MARRIAGE ENDED
HRS 1998:	
F1059	A40.POST W1 MARRIAGE START
F1061	A40A.POST W1 MARRIAGE MO
F1062	A40C.YEAR
F1066	A41.POST W1 DIV/WIDOWED
F1067	A41A.POST W1 DIV/WIDOW MOR
F1068	A41B.YEAR
F1071	A43A.MARITAL STATUS, ASSIGNED
F1072	A44.# MARRIAGES
F1073	A45.FIRST MAR-YR BEGIN
F1074	A45A.FIRST MAR-MON BEGIN
F1075	A45B.FIRST MAR-END DIV/WID
F1076	A45C.FIRST MAR-YRS MARRIED
F1077	A46.SECOND MAR-YR BEGIN
F1078	A46A.SECOND MAR-MON BEGIN
F1079	A46B.SECOND MAR-END DIV/WID
F1080	A46C.SECOND MAR-YRS MARRIED
F1081	A47.THIRD MAR-YR BEGIN
F1082	A47A.THIRD MAR-MON BEGIN
F1084	A47C.THIRD MAR-YRS MARRIED
F1085	A48.RECENT MAR-YR BEGIN
F1087	A48B.RECENT MAR-END DIV/WID

F1088	A48C.RECENT MAR-YRS MARRIED
F502	CS4.1ST R SAME SPOUSE/P
F504	CS5.PRELOAD SPOUSE/P ALIVE
F506	CS6A.YEAR SEPARATE/DIE
F526	CS15MO./YR S/P START LIVE TOGETHER
F527	CS15YR.YEAR ST LIVE W/NEW SP/P
HRS 2000:	
G1146	A40.POST W1 MARRIAGE START
G1148	A40A.POST W1 MARRIAGE MO
G1149	A40C.YEAR
G1153	A41.POST W1 DIV/WIDOWED
G1154	A41A.POST W1 DIV/WIDOW MOR
G1155	A41B.YEAR
G1158	A43A.MARITAL STATUS_ASSIGNED
G1159	A44.# MARRIAGES
G1160	A45.FIRST MAR-YR BEGIN
G1161	A45A.FIRST MAR-MON BEGIN
G1162	A45B.FIRST MAR-END DIV/WID
G1163	A45C.FIRST MAR-YRS MARRIED
G1164	A46.SECOND MAR-YR BEGIN
G1165	A46A.SECOND MAR-MON BEGIN
G1166	A46B.SECOND MAR-END DIV/WID
G1167	A46C.SECOND MAR-YRS MARRIED
G1168	A47.THIRD MAR-YR BEGIN
G1169	A47A.THIRD MAR-MON BEGIN
G1171	A47C.THIRD MAR-YRS MARRIED
G1172	A48.RECENT MAR-YR BEGIN
G1174	A48B.RECENT MAR-END DIV/WID
G1175	A48C.RECENT MAR-YRS MARRIED
G543	CS4.1ST R SAME SPOUSE/P
G545	CS5.PRELOAD SPOUSE/P ALIVE
G547	CS6A.YEAR SEPARATE/DIE
G567	CS15MO./YR S/P START LIVE TOGETHER
G568	CS15YR.YEAR ST LIVE W/NEW SP/P
HRS 2002:	
HA020	1ST R SAME SP/P
HA023	PREVIOUS WAVE SP/P ALIVE
HA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
HA036	MO STARTED LIVING WITH NEW SP/P
HA037	YEAR STARTED LIVING WITH NEW SP/P
HB055	NEW MARRIAGE SINCE PREVIOUS WAVE
HB056	BETWEEN WAVE MARRIAGE START-MONTH
HB057	BETWEEN WAVE MARRIAGE START-YEAR
HB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
HB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
HB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
HB065	NUMBER OF MARRIAGES
HB066_1	FIRST MARRIAGE YEAR BEGAN
HB066_2	SECOND MARRIAGE YEAR BEGAN
HB066_3	THIRD MARRIAGE YEAR BEGAN
HB067_1	FIRST MARRIAGE MONTH BEGAN
HB067_2	SECOND MARRIAGE MONTH BEGAN
HB067_3	THIRD MARRIAGE MONTH BEGAN
HB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
HB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
HB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
HB070_1	FIRST MARRIAGE-YEARS MARRIAGE
HB070_2	SECOND MARRIAGE-YEARS MARRIAGE
HB070_3	THIRD MARRIAGE-YEARS MARRIAGE

HMARITAL	MARITAL STATUS
HRS 2004:	
JA020	1ST R SAME SP/P
JA023	PREVIOUS WAVE SP/P ALIVE
JA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
JA036	MO STARTED LIVING WITH NEW SP/P
JA037	YEAR STARTED LIVING WITH NEW SP/P
JB055	NEW MARRIAGE SINCE PREVIOUS WAVE
JB056	BETWEEN WAVE MARRIAGE START-MONTH
JB057	BETWEEN WAVE MARRIAGE START-YEAR
JB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
JB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
JB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
JB065	NUMBER OF MARRIAGES
JB066_1	FIRST MARRIAGE YEAR BEGAN
JB066_2	SECOND MARRIAGE YEAR BEGAN
JB066_3	THIRD MARRIAGE YEAR BEGAN
JB067_1	FIRST MARRIAGE MONTH BEGAN
JB067_2	SECOND MARRIAGE MONTH BEGAN
JB067_3	THIRD MARRIAGE MONTH BEGAN
JB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
JB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
JB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
JB070_1	FIRST MARRIAGE-YEARS MARRIAGE
JB070_2	SECOND MARRIAGE-YEARS MARRIAGE
JB070_3	THIRD MARRIAGE-YEARS MARRIAGE
JPN_SP	2004 SPOUSE/PARTNER PERSON NUMBER
JSUBHH	2004 SUB-HOUSEHOLD IDENTIFIER
HRS 2006:	
KA020	1ST R SAME SP/P
KA023	PREVIOUS WAVE SP/P ALIVE
KA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
KA036	MO STARTED LIVING WITH NEW SP/P
KA037	YEAR STARTED LIVING WITH NEW SP/P
KB055	NEW MARRIAGE SINCE PREVIOUS WAVE
KB056	BETWEEN WAVE MARRIAGE START-MONTH
KB057	BETWEEN WAVE MARRIAGE START-YEAR
KB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
KB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
KB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
KB065	NUMBER OF MARRIAGES
KB066_1	FIRST MARRIAGE YEAR BEGAN
KB066_2	SECOND MARRIAGE YEAR BEGAN
KB066_3	THIRD MARRIAGE YEAR BEGAN
KB067_1	FIRST MARRIAGE MONTH BEGAN
KB067_2	SECOND MARRIAGE MONTH BEGAN
KB067_3	THIRD MARRIAGE MONTH BEGAN
KB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
KB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
KB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
KB070_1	FIRST MARRIAGE-YEARS MARRIAGE
KB070_2	SECOND MARRIAGE-YEARS MARRIAGE
KB070_3	THIRD MARRIAGE-YEARS MARRIAGE
KPN_SP	2006 SPOUSE/PARTNER PERSON NUMBER
KSUBHH	2006 SUB-HOUSEHOLD IDENTIFIER
HRS 2008:	
LA020	1ST R SAME SP/P
LA023	PREVIOUS WAVE SP/P ALIVE
LA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE



LA036	MO STARTED LIVING WITH NEW SP/P
LA037	YEAR STARTED LIVING WITH NEW SP/P
LB055	NEW MARRIAGE SINCE PREVIOUS WAVE
LB056	BETWEEN WAVE MARRIAGE START-MONTH
LB057	BETWEEN WAVE MARRIAGE START-YEAR
LB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
LB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
LB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
LB065	NUMBER OF MARRIAGES
LB066_1	FIRST MARRIAGE YEAR BEGAN
LB066_2	SECOND MARRIAGE YEAR BEGAN
LB066_3	THIRD MARRIAGE YEAR BEGAN
LB067_1	FIRST MARRIAGE MONTH BEGAN
LB067_2	SECOND MARRIAGE MONTH BEGAN
LB067_3	THIRD MARRIAGE MONTH BEGAN
LB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
LB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
LB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
LB070_1	FIRST MARRIAGE-YEARS MARRIAGE
LB070_2	SECOND MARRIAGE-YEARS MARRIAGE
LB070_3	THIRD MARRIAGE-YEARS MARRIAGE
LPN_SP	2008 SPOUSE/PARTNER PERSON NUMBER
LSUBHH	2008 SUB-HOUSEHOLD IDENTIFIER
HRS 2010:	
MA020	1ST R SAME SP/P
MA023	PREVIOUS WAVE SP/P ALIVE
MA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
MA036	MO STARTED LIVING WITH NEW SP/P
MA037	YEAR STARTED LIVING WITH NEW SP/P
MB055	NEW MARRIAGE SINCE PREVIOUS WAVE
MB056	BETWEEN WAVE MARRIAGE START-MONTH
MB057	BETWEEN WAVE MARRIAGE START-YEAR
MB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
MB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
MB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
MB065	NUMBER OF MARRIAGES
MB066_1	FIRST MARRIAGE YEAR BEGAN
MB066_2	SECOND MARRIAGE YEAR BEGAN
MB066_3	THIRD MARRIAGE YEAR BEGAN
MB067_1	FIRST MARRIAGE MONTH BEGAN
MB067_2	SECOND MARRIAGE MONTH BEGAN
MB067_3	THIRD MARRIAGE MONTH BEGAN
MB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
MB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
MB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
MB070_1	FIRST MARRIAGE-YEARS MARRIAGE
MB070_2	SECOND MARRIAGE-YEARS MARRIAGE
MB070_3	THIRD MARRIAGE-YEARS MARRIAGE
MPN_SP	2010 SPOUSE/PARTNER PERSON NUMBER
MSUBHH	2010 SUB-HOUSEHOLD IDENTIFIER
HRS 2012:	
NA020	1ST R SAME SP/P
NA023	PREVIOUS WAVE SP/P ALIVE
NA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
NA036	MO STARTED LIVING WITH NEW SP/P
NA037	YEAR STARTED LIVING WITH NEW SP/P
NB055	NEW MARRIAGE SINCE PREVIOUS WAVE
NB056	BETWEEN WAVE MARRIAGE START-MONTH
NB057	BETWEEN WAVE MARRIAGE START-YEAR

NB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
NB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
NB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
NB065	NUMBER OF MARRIAGES
NB066_1	FIRST MARRIAGE YEAR BEGAN
NB066_2	SECOND MARRIAGE YEAR BEGAN
NB066_3	THIRD MARRIAGE YEAR BEGAN
NB067_1	FIRST MARRIAGE MONTH BEGAN
NB067_2	SECOND MARRIAGE MONTH BEGAN
NB067_3	THIRD MARRIAGE MONTH BEGAN
NB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
NB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
NB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
NB070_1	FIRST MARRIAGE-YEARS MARRIAGE
NB070_2	SECOND MARRIAGE-YEARS MARRIAGE
NB070_3	THIRD MARRIAGE-YEARS MARRIAGE
NPN_SP	2012 SPOUSE/PARTNER PERSON NUMBER
NSUBHH	2012 SUB-HOUSEHOLD IDENTIFIER
HRS 2014:	
OA020	1ST R SAME SP/P
OA023	PREVIOUS WAVE SP/P ALIVE
OA025	YEAR COUPLE STOPPED LIVE TOGETHER/DIE
OA036	MO STARTED LIVING WITH NEW SP/P
OA037	YEAR STARTED LIVING WITH NEW SP/P
OB055	NEW MARRIAGE SINCE PREVIOUS WAVE
OB056	BETWEEN WAVE MARRIAGE START-MONTH
OB057	BETWEEN WAVE MARRIAGE START-YEAR
OB058	DIVORCE/WIDOW SINCE PREVIOUS WAVE
OB059	BETWEEN WAVE DIVORCE/WIDOW-MONTH
OB060	BETWEEN WAVE DIVORCE/WIDOW-YEAR
OB065	NUMBER OF MARRIAGES
OB066_1	FIRST MARRIAGE YEAR BEGAN
OB066_2	SECOND MARRIAGE YEAR BEGAN
OB066_3	THIRD MARRIAGE YEAR BEGAN
OB067_1	FIRST MARRIAGE MONTH BEGAN
OB067_2	SECOND MARRIAGE MONTH BEGAN
OB067_3	THIRD MARRIAGE MONTH BEGAN
OB068_1	FIRST MARRIAGE END DIVORCE/WIDOW
OB068_2	SECOND MARRIAGE END DIVORCE/WIDOW
OB068_3	THIRD MARRIAGE END DIVORCE/WIDOW
OB070_1	FIRST MARRIAGE-YEARS MARRIAGE
OB070_2	SECOND MARRIAGE-YEARS MARRIAGE
OB070_3	THIRD MARRIAGE-YEARS MARRIAGE
OPN_SP	2014 SPOUSE/PARTNER PERSON NUMBER
OSUBHH	2014 SUB-HOUSEHOLD IDENTIFIER
Tracker:	
AALIVE	1992 VITAL STATUS
AIWTYPE	1992 INTERVIEW TYPE
APPN	1992 SPOUSE-PARTNER PERSON NUMBER
CALIVE	1994 VITAL STATUS
CIWTYPE	1994 INTERVIEW TYPE
CPPN	1994 SPOUSE-PARTNER PERSON NUMBER
DALIVE	1995 VITAL STATUS
DIWTYPE	1995 INTERVIEW TYPE
DPPN	1995 SPOUSE-PARTNER PERSON NUMBER
EALIVE	1996 VITAL STATUS
EIWTYPE	1996 INTERVIEW TYPE
EPPN	1996 SPOUSE-PARTNER PERSON NUMBER
FALIVE	1998 VITAL STATUS

FIWTYPE	1998	INTERVIEW TYPE
FPPN	1998	SPOUSE-PARTNER PERSON NUMBER
GALIVE	2000	VITAL STATUS
GIWTYPE	2000	INTERVIEW TYPE
GPPN	2000	SPOUSE-PARTNER PERSON NUMBER
HALIVE	2002	VITAL STATUS
HIWTYPE	2002	INTERVIEW TYPE
HPPN	2002	SPOUSE-PARTNER PERSON NUMBER
JALIVE	2004	VITAL STATUS
JIWTYPE	2004	INTERVIEW TYPE
JPPN	2004	SPOUSE-PARTNER PERSON NUMBER
KALIVE	2006	VITAL STATUS
KIWTYPE	2006	INTERVIEW TYPE
KPPN	2006	SPOUSE-PARTNER PERSON NUMBER
LALIVE	2008	VITAL STATUS
LIWTYPE	2008	INTERVIEW TYPE
LPPN	2008	SPOUSE-PARTNER PERSON NUMBER
MALIVE	2010	VITAL STATUS
MIWTYPE	2010	INTERVIEW TYPE
MPPN	2010	SPOUSE-PARTNER PERSON NUMBER
NALIVE	2012	VITAL STATUS
NIWTYPE	2012	INTERVIEW TYPE
NPPN	2012	SPOUSE-PARTNER PERSON NUMBER
OALIVE	2014	VITAL STATUS
OIWTYPE	2014	INTERVIEW TYPE
OPPN	2014	SPOUSE-PARTNER PERSON NUMBER

Religion			
Wave	Variable Name	Variable Label	Type
1	RARELIG	RARELIG: R Religion	Categ
1	S1RELIG	S1RELIG: S Religion	Categ
2	S2RELIG	S2RELIG: S Religion	Categ
3	S3RELIG	S3RELIG: S Religion	Categ
4	S4RELIG	S4RELIG: S Religion	Categ
5	S5RELIG	S5RELIG: S Religion	Categ
6	S6RELIG	S6RELIG: S Religion	Categ
7	S7RELIG	S7RELIG: S Religion	Categ
8	S8RELIG	S8RELIG: S Religion	Categ
9	S9RELIG	S9RELIG: S Religion	Categ
10	S10RELIG	S10RELIG: S Religion	Categ
11	S11RELIG	S11RELIG: S Religion	Categ
12	S12RELIG	S12RELIG: S Religion	Categ

Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RARELIG	37371	1.63	0.99	1.0	5.0
S1RELIG	10101	1.49	0.81	1.0	5.0
S2RELIG	13410	1.51	0.85	1.0	5.0
S3RELIG	12145	1.51	0.85	1.0	5.0
S4RELIG	14304	1.53	0.87	1.0	5.0
S5RELIG	12911	1.53	0.87	1.0	5.0
S6RELIG	11740	1.53	0.88	1.0	5.0
S7RELIG	13171	1.58	0.92	1.0	5.0
S8RELIG	11898	1.57	0.92	1.0	5.0
S9RELIG	10850	1.58	0.92	1.0	5.0
S10RELIG	13870	1.71	1.06	1.0	5.0
S11RELIG	12795	1.71	1.06	1.0	5.0
S12RELIG	11349	1.73	1.08	1.0	5.0

## Categorical Variable Codes

Value	RARELIG
.D=DK	30
.M=Oth missing	69
.R=RF	25
1.Protestant	22762
2.Catholic	10160
3.Jewish	796
4.None/no pref	2915
5.Other	738

Value	S1RELIG	S2RELIG	S3RELIG	S4RELIG	S5RELIG	S6RELIG	S7RELIG
.D=DK	5	3	4	8	7	7	11
.M=Oth missing	14	49	41	35	35	35	33
.R=RF	1	1	2	2	1	4	7
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	159	209	141	166	87	73	130
1.Protestant	6523	8617	7811	9123	8195	7445	8118
2.Catholic	2845	3638	3280	3898	3551	3241	3690
3.Jewish	185	378	352	360	312	264	284
4.None/no pref	468	636	568	762	702	651	937
5.Other	80	141	134	161	151	139	142

Value	S8RELIG	S9RELIG	S10RELIG	S11RELIG	S12RELIG
.D=DK	9	11	11	9	8
.M=Oth missing	34	29	25	18	16
.R=RF	5	5	10	10	9
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	106	116	319	248	238
1.Protestant	7388	6715	7998	7334	6418
2.Catholic	3294	3008	3984	3702	3320
3.Jewish	250	226	218	196	171
4.None/no pref	840	777	1319	1233	1122
5.Other	126	124	351	330	318

## How Constructed

This variable is assigned by looking at all waves of data for the first non-missing values. The Wave 1 and 2H values are recoded to 5 categories in order to be compatible with the codes from Wave 3H forward, and for the AHEAD sample, from Wave 2A forward. The broader categories used for Waves 1 and 2H are: Protestant (including 'non-traditional Christian'), Catholic, Jewish, none or no preference, and other.

From Wave 3H forward, the HRS variable is simply recoded for missing values. The same is true for Wave 2A forward.

The spouse variable SwRELIG is taken from the Wave "w" spouse's self-reported data, i.e., from the spouse's RARELIG variable.

## Cross Wave Differences in Original HRS Data

In Wave 1 the questions on religious preference are asked as follows:

"What is your religious preference: Protestant, Roman Catholic, Jewish, or something else?"

"What denomination is that?"

From Wave 2 forward, the wording of the first question is slightly different:

"What is your religious preference; is it Protestant, Catholic, Jewish, some other religion, or do you have no preference?"

In Waves 1 and 2H, the resulting variable codes only the "denomination," but the codebook lists them in broader groupings: Protestant, Catholic, Jewish, non-traditional Christian (e.g., Quakers, Latter Day Saints), non-Judeo-Christian (e.g., Hindu, Islam), no religion, and other (e.g., Jewish and Catholic, or Catholic summers / Lutheran winters).

From Wave 3H forward, and for the AHEAD sample, from Wave 2A forward, the resulting variable appears to be based on the first question with only 5 codes: Protestant, Catholic, Jewish, No Preference, and Other.

## HRS Variables Used

HRS 1992:	
V214	A6:RELIGIOUS PREFERENCE
AHEAD 1993:	
B134	A6. R'S RELIGION
HRS 1994:	
W226	A14(a). Religious Preference
AHEAD 1995:	
D732	A36.R RELIGIOUS PREF
HRS 1996:	
E732	A36.R RELIGIOUS PREF
HRS 1998:	
F1052	A36.R RELIGIOUS PREF
HRS 2000:	
G1139	A36.R RELIGIOUS PREF
HRS 2002:	
HB050	R RELIGIOUS PREFERENCE
HRS 2004:	
JB050	R RELIGIOUS PREFERENCE
HRS 2006:	
KB050	R RELIGIOUS PREFERENCE
HRS 2008:	
LB050	R RELIGIOUS PREFERENCE
HRS 2010:	
MB050	R RELIGIOUS PREFERENCE
HRS 2012:	
NB050	R RELIGIOUS PREFERENCE
HRS 2014:	
OB050	R RELIGIOUS PREFERENCE

<b>Veteran status</b>
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Wave	Variable Name	Variable Label	Type
1	RAVETR	RAVETR: R Veteran Status	Categ
1	S1VETR	S1VETR: S Veteran Status	Categ
2	S2VETR	S2VETR: S Veteran Status	Categ
3	S3VETR	S3VETR: S Veteran Status	Categ
4	S4VETR	S4VETR: S Veteran Status	Categ
5	S5VETR	S5VETR: S Veteran Status	Categ
6	S6VETR	S6VETR: S Veteran Status	Categ
7	S7VETR	S7VETR: S Veteran Status	Categ
8	S8VETR	S8VETR: S Veteran Status	Categ
9	S9VETR	S9VETR: S Veteran Status	Categ
10	S10VETR	S10VETR: S Veteran Status	Categ
11	S11VETR	S11VETR: S Veteran Status	Categ
12	S12VETR	S12VETR: S Veteran Status	Categ

**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RAVETR	37449	0.21	0.41	0.0	1.0
S1VETR	10119	0.29	0.45	0.0	1.0
S2VETR	13429	0.29	0.45	0.0	1.0
S3VETR	12165	0.29	0.46	0.0	1.0
S4VETR	14330	0.29	0.46	0.0	1.0
S5VETR	12931	0.29	0.46	0.0	1.0
S6VETR	11765	0.29	0.45	0.0	1.0
S7VETR	13204	0.26	0.44	0.0	1.0
S8VETR	11927	0.26	0.44	0.0	1.0
S9VETR	10881	0.26	0.44	0.0	1.0
S10VETR	13900	0.21	0.41	0.0	1.0
S11VETR	12822	0.20	0.40	0.0	1.0
S12VETR	11373	0.19	0.39	0.0	1.0

## Categorical Variable Codes

Value	RAVETRN
.D=DK/NA	4
.M=Oth missing	39
.R=RF	3
0.No	29598
1.Yes	7851

Value	S1VETRN	S2VETRN	S3VETRN	S4VETRN	S5VETRN	S6VETRN	S7VETRN
.D=DK/NA				1	2	2	1
.M=Oth missing	4	36	29	23	20	18	16
.R=RF					1	1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	156	207	139	161	87	73	130
0.No	7182	9502	8586	10106	9141	8343	9736
1.Yes	2937	3927	3579	4224	3790	3422	3468

Value	S8VETRN	S9VETRN	S10VETRN	S11VETRN	S12VETRN
.D=DK/NA	1	1	1	1	1
.M=Oth missing	17	12	13	8	7
.R=RF	1	1	2	2	2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	106	116	319	247	237
0.No	8820	8068	11000	10257	9199
1.Yes	3107	2813	2900	2565	2174

## How Constructed

This variable is assigned by looking at all waves of data for the first non-missing values. The first non-missing value for veteran status is used. It is coded as "1" for yes, served in the military, and "0" for no.

The spouse's `RwVETRN` variable is taken from the Wave "w" spouse's self-reported veteran status, i.e., from the Wave "w" spouse's `RAVETRN`.

## Cross Wave Differences in Original HRS Data

The question about military service is only asked at the Respondent's first interview.

In Waves 1 and 2H the question wording is:

"Have you ever been in the active military service?"

From Wave 3H forward, and from Wave 2A of the AHEAD sample forward, the question wording is:

"Have you ever served in the active military of the United States?"



**HRS Variables Used**

HRS 1992:	
V222	A9:EVER IN MILITARY
AHEAD 1993:	
B146	A10. MILITARY SERVICE
HRS 1994:	
W234	A17. Ever in Military
AHEAD 1995:	
D670	A10.MILITARY
HRS 1996:	
E670	A10.MILITARY
HRS 1998:	
F1008	A10.MILITARY
HRS 2000:	
G1095	A10.MILITARY
HRS 2002:	
HB035	R SERVED IN MILITARY
HRS 2004:	
JB035	R SERVED IN MILITARY
HRS 2006:	
KB035	R SERVED IN MILITARY
HRS 2008:	
LB035	R SERVED IN MILITARY
HRS 2010:	
MB035	R SERVED IN MILITARY
HRS 2012:	
NB035	R SERVED IN MILITARY
HRS 2014:	
OB035	R SERVED IN MILITARY

<b>Place of birth</b>
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Wave	Variable Name	Variable Label	Type
1	RABPLACE	RABPLACE: R Place of Birth (Cens Region)	Categ
1	S1BPLACE	S1BPLACE: S Place of Birth (Cens Region)	Categ
2	S2BPLACE	S2BPLACE: S Place of Birth (Cens Region)	Categ
3	S3BPLACE	S3BPLACE: S Place of Birth (Cens Region)	Categ
4	S4BPLACE	S4BPLACE: S Place of Birth (Cens Region)	Categ
5	S5BPLACE	S5BPLACE: S Place of Birth (Cens Region)	Categ
6	S6BPLACE	S6BPLACE: S Place of Birth (Cens Region)	Categ
7	S7BPLACE	S7BPLACE: S Place of Birth (Cens Region)	Categ
8	S8BPLACE	S8BPLACE: S Place of Birth (Cens Region)	Categ
9	S9BPLACE	S9BPLACE: S Place of Birth (Cens Region)	Categ
10	S10BPLACE	S10BPLACE: S Place of Birth (Cens Region)	Categ
11	S11BPLACE	S11BPLACE: S Place of Birth (Cens Region)	Categ
12	S12BPLACE	S12BPLACE: S Place of Birth (Cens Region)	Categ
1	RABPLACF	RABPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
1	S1BPLACF	S1BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
2	S2BPLACF	S2BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
3	S3BPLACF	S3BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
4	S4BPLACF	S4BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
5	S5BPLACF	S5BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
6	S6BPLACF	S6BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
7	S7BPLACF	S7BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
8	S8BPLACF	S8BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
9	S9BPLACF	S9BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
10	S10BPLACF	S10BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
11	S11BPLACF	S11BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ
12	S12BPLACF	S12BPLACF: Flag diff RABPLACE/USBORN(trk)	Categ

## Descriptive Statistics

Variable Name	N	Mean	Std Dev	Minimum	Maximum
RABPLACE	37456	5.38	2.99	1.0	11.0
S1BPLACE	10121	5.25	2.85	1.0	11.0
S2BPLACE	13432	5.13	2.85	1.0	11.0
S3BPLACE	12167	5.14	2.85	1.0	11.0
S4BPLACE	14333	5.10	2.83	1.0	11.0
S5BPLACE	12935	5.12	2.85	1.0	11.0
S6BPLACE	11770	5.14	2.86	1.0	11.0
S7BPLACE	13206	5.23	2.94	1.0	11.0
S8BPLACE	11929	5.21	2.92	1.0	11.0
S9BPLACE	10882	5.24	2.95	1.0	11.0
S10BPLACE	13903	5.53	3.14	1.0	11.0
S11BPLACE	12824	5.58	3.15	1.0	11.0
S12BPLACE	11375	5.63	3.19	1.0	11.0
RABPLACF	37495	0.00	0.07	0.0	3.0
S1BPLACF	10279	0.01	0.09	0.0	2.0
S2BPLACF	13608	0.00	0.07	0.0	2.0
S3BPLACF	12269	0.01	0.08	0.0	3.0
S4BPLACF	14453	0.00	0.07	0.0	3.0
S5BPLACF	13007	0.00	0.07	0.0	3.0
S6BPLACF	11822	0.00	0.07	0.0	3.0

S7BPLACF	13307	0.01	0.08	0.0	3.0
S8BPLACF	12001	0.00	0.07	0.0	3.0
S9BPLACF	10953	0.00	0.07	0.0	2.0
S10BPLACF	14147	0.00	0.07	0.0	2.0
S11BPLACF	12985	0.00	0.07	0.0	2.0
S12BPLACF	11534	0.00	0.07	0.0	2.0

## Categorical Variable Codes

Value	RABPLACE
.M=Oth missing	39
1.New England	1710
2.Mid Atlantic	5116
3.EN Central	6046
4.WN Central	3238
5.S Atlantic	6493
6.ES Central	3033
7.WS Central	3765
8.Mountain	1023
9.Pacific	1728
10.US/NA Division	501
11.Not US/inc US terr	4803

Value	S1BPLACE	S2BPLACE	S3BPLACE	S4BPLACE	S5BPLACE	S6BPLACE	S7BPLACE
.M=Oth missing	1	33	26	22	19	17	16
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	157	207	140	160	87	72	130
1.New England	408	584	517	653	598	516	605
2.Mid Atlantic	1423	2025	1844	2114	1903	1699	1802
3.EN Central	1612	2308	2113	2546	2303	2143	2493
4.WN Central	1005	1385	1279	1531	1401	1280	1403
5.S Atlantic	1712	2079	1835	2183	1924	1724	1863
6.ES Central	985	1176	1046	1172	1034	943	988
7.WS Central	1033	1384	1248	1453	1326	1198	1225
8.Mountain	335	436	406	482	434	397	481
9.Pacific	494	667	622	809	715	679	834
10.US/NA Division	10	34	28	30	24	19	27
11.Not US/inc US terr	1104	1354	1229	1360	1273	1172	1485

Value	S8BPLACE	S9BPLACE	S10BPLACE	S11BPLACE	S12BPLACE
.M=Oth missing	18	13	13	8	7
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	105	116	319	248	238
1.New England	547	495	662	606	522
2.Mid Atlantic	1649	1463	1721	1560	1385
3.EN Central	2262	2101	2433	2215	1984
4.WN Central	1287	1166	1254	1145	986
5.S Atlantic	1618	1476	2214	2049	1793
6.ES Central	899	801	935	890	778
7.WS Central	1161	1030	1232	1094	931
8.Mountain	431	398	393	374	321
9.Pacific	766	708	712	661	597
10.US/NA Division	21	19	159	154	148
11.Not US/inc US terr	1288	1225	2188	2076	1930

Value	RABPLACF
0.No Discrepancy	37344
1.Trk=US/RABPLACE=Outside U	145
2.Trk=not US/RABPLACE=US	3
3.Trk=miss/RABPLACE=Valid C	3

Value	S1BPLACF	S2BPLACF	S3BPLACF	S4BPLACF	S5BPLACF	S6BPLACF	S7BPLACF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		64	64	62	34	37	45
0.No Discrepancy	10210	13552	12210	14400	12957	11772	13243
1.Trk=US/RABPLACE=Outside U	67	54	57	51	48	48	61
2.Trk=not US/RABPLACE=US	2	2	1	1	1	1	1
3.Trk=miss/RABPLACE=Valid C			1	1	1	1	2

Value	S8BPLACF	S9BPLACF	S10BPLACF	S11BPLACF	S12BPLACF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	51	58	88	95	86
0.No Discrepancy	11947	10903	14088	12930	11484
1.Trk=US/RABPLACE=Outside U	52	49	58	54	49
2.Trk=not US/RABPLACE=US	1	1	1	1	1
3.Trk=miss/RABPLACE=Valid C	1				

## Format Reference Tables – complete variable value labels

Variables: BPLACF

.U=Unmarried  
.V=Spouse NR  
0.No Discrepancy  
1.Trk=US/RABPLACE=Outside US  
2.Trk=not US/RABPLACE=US  
3.Trk=miss/RABPLACE=Valid Census Division

## How Constructed

RABPLACE indicates the Respondent's birthplace. It is assigned by looking at all waves of data for the first non-missing value. Place of birth is reported as Census Division; a code of 11 indicates not in the US, including foreign countries and U.S. territories. A code of 10 indicates in the US, but without the Census Division information.

In Wave 2A of AHEAD, the Census Division is not available; only whether the Respondent was born in the US or not. This is used to set the birthplace to code 10 or 11.

The HRS Region file also provides the Census Division of birthplace in the variable REGIONB. If RABPLACE is missing or 10, and a more specific Census Division is available from this source, we use it to fill RABPLACE.

There are some cases where REGIONB is 05, a valid Census Division, but the core data indicate that the Respondent is foreign-born (RABPLACE=11). For these cases we leave RABPLACE as coded in the core data, i.e., as foreign-born. Note that a code of 5 typically means "No" in the HRS.

We compare RABPLACE to the USBORN variable on the Tracker file and code the results in RABPLACF. There are cases where USBORN indicates that the Respondent was born in the U.S., but the birth place given in the core data and

Region file is coded foreign-born. There are also cases where USBORN indicates that the Respondent was born outside the U.S., but the core and Region file indicate a U.S. Census Division. In these cases we use the birth place coded in the core data, but indicate the discrepancy in RABPLACF.

The spouse's variable SwBPLACE is taken from the Wave "w" spouse's self-reported birthplace, i.e., from the Wave "w" spouse's RABPLACE.

### Cross Wave Differences in Original HRS Data

The first time a Respondent is interviewed, the HRS survey asks where s/he was born. Those born in the U.S. are asked which state, and those born outside the U.S. are asked which country.

In the public use data files, there is one variable which codes whether the Respondent is U.S.-born, and another in which the state or country of birth is masked; that is, recoded to one variable indicating the Census Region of birth, with a code for non-U.S. birthplaces.

In Wave 2A of AHEAD, only the first variable, whether the Respondent is U.S.-born, is available. In all other waves, the Census Region is also available.

There is also a variable available from the HRS Region file (REGIONB). Additionally, the Tracker file also carries a variable based on whether the Respondent reports being born in the U.S. (USBORN).

### HRS Variables Used

HRS 1992:	
V205	A2AB:WHERE BORN
AHEAD 1993:	
B117	A2. BORN US?
HRS 1994:	
W216	A12a/b. State/Country of Birth
AHEAD 1995:	
D639	A2.BORN US?
D640M	A2A. REGION - US BORN
HRS 1996:	
E639	A2.BORN US?
E640M	A2A. REGION - US BORN
HRS 1998:	
F971	A2.BORN US?
F972M	A2A.REGION - US BORN
HRS 2000:	
G1060	A2.BORN US?
G1061M	A2A.REGION - US BORN
HRS 2002:	
HB002	BORN IN US
HB003M	STATE BORN - MASKED
HRS 2004:	
JB002	BORN IN US
JB003M	STATE BORN - MASKED
HRS 2006:	
KB002	BORN IN US
KB003M	STATE BORN - MASKED
HRS 2008:	
LB002	BORN IN US

LB003M	STATE BORN - MASKED
HRS 2010:	
MB002	BORN IN US
MB003M	STATE BORN - MASKED
HRS 2012:	
NB002	BORN IN US
NB003M	STATE BORN - MASKED
HRS 2014:	
OB002	BORN IN US
OB003M	STATE BORN - MASKED
Tracker:	
USBORN	BORN IN THE U.S.
Region:	
REGIONB	CENSUS REGION-DIVISION OF BIRTH

<b>Parental mortality</b>
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Wave	Variable Name	Variable Label	Type
1	R1MOMLIV	R1MOMLIV:W1 Mother alive	Categ
2	R2MOMLIV	R2MOMLIV:W2 Mother alive	Categ
3	R3MOMLIV	R3MOMLIV:W3 Mother alive	Categ
4	R4MOMLIV	R4MOMLIV:W4 Mother alive	Categ
5	R5MOMLIV	R5MOMLIV:W5 Mother alive	Categ
6	R6MOMLIV	R6MOMLIV:W6 Mother alive	Categ
7	R7MOMLIV	R7MOMLIV:W7 Mother alive	Categ
8	R8MOMLIV	R8MOMLIV:W8 Mother alive	Categ
9	R9MOMLIV	R9MOMLIV:W9 Mother alive	Categ
10	R10MOMLIV	R10MOMLIV:W10 Mother alive	Categ
11	R11MOMLIV	R11MOMLIV:W11 Mother alive	Categ
12	R12MOMLIV	R12MOMLIV:W12 Mother alive	Categ
1	S1MOMLIV	S1MOMLIV:W1 Mother alive	Categ
2	S2MOMLIV	S2MOMLIV:W2 Mother alive	Categ
3	S3MOMLIV	S3MOMLIV:W3 Mother alive	Categ
4	S4MOMLIV	S4MOMLIV:W4 Mother alive	Categ
5	S5MOMLIV	S5MOMLIV:W5 Mother alive	Categ
6	S6MOMLIV	S6MOMLIV:W6 Mother alive	Categ
7	S7MOMLIV	S7MOMLIV:W7 Mother alive	Categ
8	S8MOMLIV	S8MOMLIV:W8 Mother alive	Categ
9	S9MOMLIV	S9MOMLIV:W9 Mother alive	Categ
10	S10MOMLIV	S10MOMLIV:W10 Mother alive	Categ
11	S11MOMLIV	S11MOMLIV:W11 Mother alive	Categ
12	S12MOMLIV	S12MOMLIV:W12 Mother alive	Categ
1	R1DADLIV	R1DADLIV:W1 Father alive	Categ
2	R2DADLIV	R2DADLIV:W2 Father alive	Categ
3	R3DADLIV	R3DADLIV:W3 Father alive	Categ
4	R4DADLIV	R4DADLIV:W4 Father alive	Categ
5	R5DADLIV	R5DADLIV:W5 Father alive	Categ
6	R6DADLIV	R6DADLIV:W6 Father alive	Categ
7	R7DADLIV	R7DADLIV:W7 Father alive	Categ
8	R8DADLIV	R8DADLIV:W8 Father alive	Categ
9	R9DADLIV	R9DADLIV:W9 Father alive	Categ
10	R10DADLIV	R10DADLIV:W10 Father alive	Categ
11	R11DADLIV	R11DADLIV:W11 Father alive	Categ
12	R12DADLIV	R12DADLIV:W12 Father alive	Categ
1	S1DADLIV	S1DADLIV:W1 Father alive	Categ
2	S2DADLIV	S2DADLIV:W2 Father alive	Categ
3	S3DADLIV	S3DADLIV:W3 Father alive	Categ
4	S4DADLIV	S4DADLIV:W4 Father alive	Categ
5	S5DADLIV	S5DADLIV:W5 Father alive	Categ
6	S6DADLIV	S6DADLIV:W6 Father alive	Categ
7	S7DADLIV	S7DADLIV:W7 Father alive	Categ
8	S8DADLIV	S8DADLIV:W8 Father alive	Categ
9	S9DADLIV	S9DADLIV:W9 Father alive	Categ
10	S10DADLIV	S10DADLIV:W10 Father alive	Categ
11	S11DADLIV	S11DADLIV:W11 Father alive	Categ
12	S12DADLIV	S12DADLIV:W12 Father alive	Categ
1	R1LIVPAR	R1LIVPAR:W1 Number of living parents	Cont
2	R2LIVPAR	R2LIVPAR:W2 Number of living parents	Cont
3	R3LIVPAR	R3LIVPAR:W3 Number of living parents	Cont
4	R4LIVPAR	R4LIVPAR:W4 Number of living parents	Cont
5	R5LIVPAR	R5LIVPAR:W5 Number of living parents	Cont
6	R6LIVPAR	R6LIVPAR:W6 Number of living parents	Cont
7	R7LIVPAR	R7LIVPAR:W7 Number of living parents	Cont
8	R8LIVPAR	R8LIVPAR:W8 Number of living parents	Cont
9	R9LIVPAR	R9LIVPAR:W9 Number of living parents	Cont
10	R10LIVPAR	R10LIVPAR:W10 Number of living parents	Cont
11	R11LIVPAR	R11LIVPAR:W11 Number of living parents	Cont
12	R12LIVPAR	R12LIVPAR:W12 Number of living parents	Cont
1	S1LIVPAR	S1LIVPAR:W1 Number of living parents	Cont

2	S2LIVPAR	S2LIVPAR:W2	Number of living parents	Cont
3	S3LIVPAR	S3LIVPAR:W3	Number of living parents	Cont
4	S4LIVPAR	S4LIVPAR:W4	Number of living parents	Cont
5	S5LIVPAR	S5LIVPAR:W5	Number of living parents	Cont
6	S6LIVPAR	S6LIVPAR:W6	Number of living parents	Cont
7	S7LIVPAR	S7LIVPAR:W7	Number of living parents	Cont
8	S8LIVPAR	S8LIVPAR:W8	Number of living parents	Cont
9	S9LIVPAR	S9LIVPAR:W9	Number of living parents	Cont
10	S10LIVPAR	S10LIVPAR:W10	Number of living parents	Cont
11	S11LIVPAR	S11LIVPAR:W11	Number of living parents	Cont
12	S12LIVPAR	S12LIVPAR:W12	Number of living parents	Cont
1	R1MOMAGE	R1MOMAGE:W1	Mother age current/at death	Cont
2	R2MOMAGE	R2MOMAGE:W2	Mother age current/at death	Cont
3	R3MOMAGE	R3MOMAGE:W3	Mother age current/at death	Cont
4	R4MOMAGE	R4MOMAGE:W4	Mother age current/at death	Cont
5	R5MOMAGE	R5MOMAGE:W5	Mother age current/at death	Cont
6	R6MOMAGE	R6MOMAGE:W6	Mother age current/at death	Cont
7	R7MOMAGE	R7MOMAGE:W7	Mother age current/at death	Cont
8	R8MOMAGE	R8MOMAGE:W8	Mother age current/at death	Cont
9	R9MOMAGE	R9MOMAGE:W9	Mother age current/at death	Cont
10	R10MOMAGE	R10MOMAGE:W10	Mother age current/at death	Cont
11	R11MOMAGE	R11MOMAGE:W11	Mother age current/at death	Cont
12	R12MOMAGE	R12MOMAGE:W12	Mother age current/at death	Cont
1	S1MOMAGE	S1MOMAGE:W1	Mother age current/at death	Cont
2	S2MOMAGE	S2MOMAGE:W2	Mother age current/at death	Cont
3	S3MOMAGE	S3MOMAGE:W3	Mother age current/at death	Cont
4	S4MOMAGE	S4MOMAGE:W4	Mother age current/at death	Cont
5	S5MOMAGE	S5MOMAGE:W5	Mother age current/at death	Cont
6	S6MOMAGE	S6MOMAGE:W6	Mother age current/at death	Cont
7	S7MOMAGE	S7MOMAGE:W7	Mother age current/at death	Cont
8	S8MOMAGE	S8MOMAGE:W8	Mother age current/at death	Cont
9	S9MOMAGE	S9MOMAGE:W9	Mother age current/at death	Cont
10	S10MOMAGE	S10MOMAGE:W10	Mother age current/at death	Cont
11	S11MOMAGE	S11MOMAGE:W11	Mother age current/at death	Cont
12	S12MOMAGE	S12MOMAGE:W12	Mother age current/at death	Cont
1	R1DADAGE	R1DADAGE:W1	Father age current/at death	Cont
2	R2DADAGE	R2DADAGE:W2	Father age current/at death	Cont
3	R3DADAGE	R3DADAGE:W3	Father age current/at death	Cont
4	R4DADAGE	R4DADAGE:W4	Father age current/at death	Cont
5	R5DADAGE	R5DADAGE:W5	Father age current/at death	Cont
6	R6DADAGE	R6DADAGE:W6	Father age current/at death	Cont
7	R7DADAGE	R7DADAGE:W7	Father age current/at death	Cont
8	R8DADAGE	R8DADAGE:W8	Father age current/at death	Cont
9	R9DADAGE	R9DADAGE:W9	Father age current/at death	Cont
10	R10DADAGE	R10DADAGE:W10	Father age current/at death	Cont
11	R11DADAGE	R11DADAGE:W11	Father age current/at death	Cont
12	R12DADAGE	R12DADAGE:W12	Father age current/at death	Cont
1	S1DADAGE	S1DADAGE:W1	Father age current/at death	Cont
2	S2DADAGE	S2DADAGE:W2	Father age current/at death	Cont
3	S3DADAGE	S3DADAGE:W3	Father age current/at death	Cont
4	S4DADAGE	S4DADAGE:W4	Father age current/at death	Cont
5	S5DADAGE	S5DADAGE:W5	Father age current/at death	Cont
6	S6DADAGE	S6DADAGE:W6	Father age current/at death	Cont
7	S7DADAGE	S7DADAGE:W7	Father age current/at death	Cont
8	S8DADAGE	S8DADAGE:W8	Father age current/at death	Cont
9	S9DADAGE	S9DADAGE:W9	Father age current/at death	Cont
10	S10DADAGE	S10DADAGE:W10	Father age current/at death	Cont
11	S11DADAGE	S11DADAGE:W11	Father age current/at death	Cont
12	S12DADAGE	S12DADAGE:W12	Father age current/at death	Cont



**Descriptive Statistics**

Variable Name	N	Mean	Std Dev	Minimum	Maximum
R1MOMLIV	12483	0.44	0.50	0.0	1.0
R2MOMLIV	19504	0.24	0.43	0.0	1.0
R3MOMLIV	17825	0.21	0.41	0.0	1.0
R4MOMLIV	21163	0.22	0.41	0.0	1.0
R5MOMLIV	19307	0.19	0.39	0.0	1.0
R6MOMLIV	17912	0.17	0.38	0.0	1.0
R7MOMLIV	19878	0.22	0.41	0.0	1.0
R8MOMLIV	18236	0.19	0.39	0.0	1.0
R9MOMLIV	17000	0.17	0.38	0.0	1.0
R10MOMLIV	21756	0.26	0.44	0.0	1.0
R11MOMLIV	20348	0.24	0.42	0.0	1.0
R12MOMLIV	18360	0.21	0.41	0.0	1.0
S1MOMLIV	10119	0.44	0.50	0.0	1.0
S2MOMLIV	13333	0.28	0.45	0.0	1.0
S3MOMLIV	12096	0.25	0.43	0.0	1.0
S4MOMLIV	14275	0.26	0.44	0.0	1.0
S5MOMLIV	12772	0.23	0.42	0.0	1.0
S6MOMLIV	11536	0.20	0.40	0.0	1.0
S7MOMLIV	12943	0.25	0.44	0.0	1.0
S8MOMLIV	11731	0.23	0.42	0.0	1.0
S9MOMLIV	10677	0.20	0.40	0.0	1.0
S10MOMLIV	13571	0.29	0.45	0.0	1.0
S11MOMLIV	12583	0.26	0.44	0.0	1.0
S12MOMLIV	10999	0.23	0.42	0.0	1.0
R1DADLIV	12311	0.19	0.39	0.0	1.0
R2DADLIV	19471	0.09	0.29	0.0	1.0
R3DADLIV	17845	0.08	0.27	0.0	1.0
R4DADLIV	21122	0.09	0.28	0.0	1.0
R5DADLIV	19429	0.08	0.27	0.0	1.0
R6DADLIV	18046	0.06	0.25	0.0	1.0
R7DADLIV	19985	0.10	0.30	0.0	1.0
R8DADLIV	18345	0.08	0.27	0.0	1.0
R9DADLIV	17087	0.07	0.26	0.0	1.0
R10DADLIV	21745	0.13	0.33	0.0	1.0
R11DADLIV	20390	0.11	0.32	0.0	1.0
R12DADLIV	18480	0.10	0.29	0.0	1.0
S1DADLIV	9989	0.19	0.40	0.0	1.0
S2DADLIV	13310	0.11	0.32	0.0	1.0
S3DADLIV	12117	0.09	0.29	0.0	1.0
S4DADLIV	14240	0.11	0.31	0.0	1.0
S5DADLIV	12905	0.10	0.30	0.0	1.0
S6DADLIV	11679	0.08	0.27	0.0	1.0
S7DADLIV	13045	0.12	0.32	0.0	1.0
S8DADLIV	11833	0.10	0.30	0.0	1.0
S9DADLIV	10785	0.09	0.28	0.0	1.0
S10DADLIV	13586	0.15	0.36	0.0	1.0
S11DADLIV	12669	0.13	0.33	0.0	1.0
S12DADLIV	11146	0.11	0.32	0.0	1.0
R1LIVPAR	12296	0.62	0.69	0.0	2.0
R2LIVPAR	19419	0.33	0.58	0.0	2.0
R3LIVPAR	17736	0.29	0.54	0.0	2.0
R4LIVPAR	21045	0.31	0.56	0.0	2.0

R5LIVPAR	19224	0.27	0.54	0.0	2.0
R6LIVPAR	17848	0.23	0.50	0.0	2.0
R7LIVPAR	19788	0.32	0.58	0.0	2.0
R8LIVPAR	18156	0.27	0.55	0.0	2.0
R9LIVPAR	16915	0.24	0.52	0.0	2.0
R10LIVPAR	21560	0.39	0.64	0.0	2.0
R11LIVPAR	20226	0.35	0.61	0.0	2.0
R12LIVPAR	18202	0.30	0.58	0.0	2.0
S1LIVPAR	9979	0.63	0.70	0.0	2.0
S2LIVPAR	13256	0.40	0.62	0.0	2.0
S3LIVPAR	12016	0.34	0.58	0.0	2.0
S4LIVPAR	14172	0.37	0.61	0.0	2.0
S5LIVPAR	12714	0.33	0.58	0.0	2.0
S6LIVPAR	11480	0.28	0.54	0.0	2.0
S7LIVPAR	12865	0.37	0.62	0.0	2.0
S8LIVPAR	11665	0.33	0.59	0.0	2.0
S9LIVPAR	10614	0.29	0.56	0.0	2.0
S10LIVPAR	13408	0.44	0.67	0.0	2.0
S11LIVPAR	12500	0.39	0.64	0.0	2.0
S12LIVPAR	10889	0.35	0.61	0.0	2.0
R1MOMAGE	12482	72.53	13.20	16.0	95.0
R2MOMAGE	18888	73.56	15.11	16.0	110.0
R3MOMAGE	17354	74.07	15.23	16.0	110.0
R4MOMAGE	20580	74.61	14.92	15.0	113.0
R5MOMAGE	18806	74.97	15.07	15.0	113.0
R6MOMAGE	17503	75.34	15.18	16.0	110.0
R7MOMAGE	19483	75.22	14.72	16.0	113.0
R8MOMAGE	17897	75.74	14.83	16.0	113.0
R9MOMAGE	16713	76.17	14.86	16.0	113.0
R10MOMAGE	21434	75.51	14.24	16.0	113.0
R11MOMAGE	20057	76.00	14.36	16.0	114.0
R12MOMAGE	18121	76.39	14.46	16.0	114.0
S1MOMAGE	10115	72.62	13.03	17.0	95.0
S2MOMAGE	13059	73.80	14.51	17.0	110.0
S3MOMAGE	11873	74.37	14.62	17.0	110.0
S4MOMAGE	13911	74.80	14.40	17.0	113.0
S5MOMAGE	12472	75.16	14.56	17.0	113.0
S6MOMAGE	11307	75.72	14.61	17.0	110.0
S7MOMAGE	12712	75.50	14.13	16.0	113.0
S8MOMAGE	11535	76.06	14.24	16.0	110.0
S9MOMAGE	10506	76.56	14.29	16.0	110.0
S10MOMAGE	13401	75.78	13.78	16.0	110.0
S11MOMAGE	12418	76.30	13.89	16.0	110.0
S12MOMAGE	10867	76.74	13.95	16.0	110.0
R1DADAGE	12311	69.87	13.62	16.0	96.0
R2DADAGE	18560	70.65	14.36	16.0	110.0
R3DADAGE	17113	70.78	14.48	16.0	116.0
R4DADAGE	20126	71.04	14.33	19.0	107.0
R5DADAGE	18580	71.25	14.37	19.0	107.0
R6DADAGE	17322	71.41	14.46	19.0	107.0
R7DADAGE	19197	71.49	14.19	12.0	110.0
R8DADAGE	17654	71.62	14.29	12.0	110.0
R9DADAGE	16475	71.87	14.43	12.0	110.0
R10DADAGE	20952	71.87	14.09	12.0	110.0
R11DADAGE	19641	72.07	14.28	12.0	110.0

R12DADAGE	17837	72.25	14.40	12.0	110.0
S1DADAGE	9987	70.03	13.44	16.0	95.0
S2DADAGE	12898	70.61	14.11	16.0	105.0
S3DADAGE	11758	70.73	14.24	16.0	116.0
S4DADAGE	13647	71.03	14.10	19.0	106.0
S5DADAGE	12432	71.34	14.12	19.0	106.0
S6DADAGE	11304	71.51	14.25	19.0	106.0
S7DADAGE	12622	71.70	13.97	12.0	110.0
S8DADAGE	11468	71.88	14.07	12.0	110.0
S9DADAGE	10467	72.16	14.20	12.0	110.0
S10DADAGE	13195	72.06	13.88	12.0	110.0
S11DADAGE	12271	72.28	14.06	12.0	110.0
S12DADAGE	10821	72.58	14.25	12.0	110.0

## Categorical Variable Codes

Value	R1MOMLIV	R2MOMLIV	R3MOMLIV	R4MOMLIV	R5MOMLIV	R6MOMLIV	R7MOMLIV
.D=DK/NA	26	9	11	15	14	12	19
.M=Oth missing	143	129	153	199	257	235	231
.R=RF			2	7	1	6	1
0.No	7051	14858	14054	16485	15583	14876	15554
1.Yes	5432	4646	3771	4678	3724	3036	4324

Value	R8MOMLIV	R9MOMLIV	R10MOMLIV	R11MOMLIV	R12MOMLIV
.D=DK/NA	15	12	25	19	18
.M=Oth missing	217	205	251	187	368
.R=RF	1		2		1
0.No	14758	14112	16129	15561	14556
1.Yes	3478	2888	5627	4787	3804

Value	S1MOMLIV	S2MOMLIV	S3MOMLIV	S4MOMLIV	S5MOMLIV	S6MOMLIV	S7MOMLIV
.D=DK/NA	22	7	13	14	12	8	15
.M=Oth missing	138	332	221	219	256	200	180
.R=RF			3	7	1	5	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR						110	214
0.No	5652	9555	9073	10566	9854	9224	9658
1.Yes	4467	3778	3023	3709	2918	2312	3285

Value	S8MOMLIV	S9MOMLIV	S10MOMLIV	S11MOMLIV	S12MOMLIV
.D=DK/NA	8	9	19	12	9
.M=Oth missing	157	141	174	123	237
.R=RF	1		2		1
.U=Unmarried	6417	6205	7799	7474	7127
.V=Spouse NR	155	185	469	362	374
0.No	9091	8519	9627	9266	8442
1.Yes	2640	2158	3944	3317	2557

Value	R1DADLIV	R2DADLIV	R3DADLIV	R4DADLIV	R5DADLIV	R6DADLIV	R7DADLIV
.D=DK/NA	169	58	40	67	45	28	57
.M=Oth missing	172	112	104	189	104	85	87
.R=RF		1	2	6	1	6	
0.No	10019	17662	16477	19246	17928	16886	18034
1.Yes	2292	1809	1368	1876	1501	1160	1951

Value	R8DADLIV	R9DADLIV	R10DADLIV	R11DADLIV	R12DADLIV
.D=DK/NA	46	46	141	88	81
.M=Oth missing	77	84	145	74	185
.R=RF	1		3	2	1
0.No	16841	15884	18952	18111	16715
1.Yes	1504	1203	2793	2279	1765

Value	S1DADLIV	S2DADLIV	S3DADLIV	S4DADLIV	S5DADLIV	S6DADLIV	S7DADLIV
.D=DK/NA	122	42	35	55	36	17	32
.M=Oth missing	168	319	176	211	98	55	52
.R=RF		1	5	9	2	6	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR						102	223
0.No	8055	11800	10983	12675	11645	10733	11492
1.Yes	1934	1510	1134	1565	1260	946	1553

Value	S8DADLIV	S9DADLIV	S10DADLIV	S11DADLIV	S12DADLIV
.D=DK/NA	26	30	75	50	47
.M=Oth missing	40	35	82	30	96
.R=RF	1		2		
.U=Unmarried	6417	6205	7799	7474	7127
.V=Spouse NR	152	162	490	331	331
0.No	10640	9843	11548	11039	9900
1.Yes	1193	942	2038	1630	1246

## How Constructed

RwMOMAGE and RwDADAGE are assigned respectively to the Respondent's mother's and the Respondent's father's current age if living or age at death if deceased. SwMOMAGE and SwDADAGE are assigned respectively to the Respondent's mother-in-law's and Respondent's father-in-law's current age or age at death.

RwMOMLIV and RwDADLIV flag whether a Respondent's mother and father, respectively, are still alive. SwMOMLIV and SwDADLIV flag whether a Respondent's mother-in-law and father-in-law, respectively, are still alive. If the parent is alive, then the derived mortality status is set to "1;" if deceased, it is set to "0."

RwLIVPAR counts a Respondent's own living parents and SwLIVPAR counts a Respondent's living parents-in-law. They are derived by summing the RwMOMLIV and RwDADLIV variables. If either RwMOMLIV or RwDADLIV is missing, then RwLIVPAR is missing.

If the Respondent is unmarried, RwMOMAGE, RwDADAGE, SwMOMLIV, SwDADLIV, and RwLIVPAR are assigned .U missing values. In waves where the spouse did not provide an interview and the Respondent only reports on her/his own parents, they are assigned .V missing values.

For Waves 1 and 2H, the derivations use preprocessed variables that assign parent and in-law information to Respondents. In Waves 3H, 4, and 5, the derivations use household-level data, taking into account whether the Respondent is the Family Respondent or not. If the Respondent is the Family Respondent, then parent data are assigned to the Respondent's

parent variables and parent-in-law data are assigned to the spouse's parent variables. If the Respondent is not the Family Respondent, then parent-in-law data are assigned to the Respondent's parent variables and parent data are assigned to the Respondent's parent-in-law variables. In Waves 2A and 3A and from Wave 6 forward, parent data are collected from Respondents about their own parents. Information about parents-in-law is assigned from the spouse's report on her/his own parents.

If a parent is reported deceased at an interview and the parent data is missing at a subsequent interview, the data is carried forward. If the parent data is given at an interview but is missing at a prior interview, the data is carried back. When carrying data forward or back for in-laws, the spouse IDs are compared to ensure that the information is for the same spouse.

### **Cross Wave Differences in Original HRS Data**

Information about parent mortality and age is reported in the Family Section at each interview. In Waves 1, 2H, 3H, 4, and 5, the designated Family Respondent answers all questions about parents and parents-in-law in a couple household. In Waves 2A and 3A, and from Wave 6 forward, each Respondent answers the questions about her/his own parents.

In Waves 1 and 2H, the raw HRS data provides parent data in separate modules with observations by parent. In Wave 2H there may be multiple observations per parent. The modules may include information on up to 4 parents per household with the Family Respondent's parents and in-laws. In Waves 2A and 3A, and from Wave 6 forward, the raw data provide parent data in Respondent level variables with one observation per Respondent. In Waves 3H, 4 and 5 the raw HRS data provide parent data in household level variables with one observation per household holding information on up to four parents.

Preprocessing of Wave 1 and 2H data collapses the parent-level observations to each Respondent as a set of 4 variables for each measure pertaining to the Respondent's mother, father, mother-in-law, and father-in-law. The process takes into account whether the Respondent is the Family Respondent or not. For Waves 2A and 3A, and from Wave 6 forward, each Respondent provides information about her/his own mother and father, regardless of who the Family Respondent is. Information about parents-in-law is based on the spouse's responses. In Waves 3H, 4, and 5 the assignment of parent data is adjusted to account for the Respondent's Family Respondent status.

Concerning `RwMOMAGE` and `RwDADAGE` if a parent is living, a question asks how old the parent is. If the parent is deceased a question asks how old the parent was when s/he died. In Waves 1 and 2H the question wordings are: "How old is she/he?" and "How old was he/she when he/she died?" In Waves 2A and 3H, and from Wave 4 forward, the wording is slightly different: "About how old is she/he?" and "About how old was he/she when he/she died?" These questions are skipped if preloaded information indicates that the Respondent reported the parent deceased at a previous interview.

Unlike other waves, Respondents in Wave 2A who either don't recall, or refuse to answer the question about their parents' age at death, enter into a sequence of two "bracket" questions ("Was he/she older than 65?"; and "Was he/she older than 85?") The pattern of responses to these questions is captured in four special missing codes (.E = died before 65; .F = died between 65-85; and .G = died after 65+; and .H = died after age 85+).

Concerning `RwMOMLIV`, `RwDADLIV`, and `RwLIVPAR` in Wave 1, a question asks: "Is [your, your spouse/partner's] [mother, father] living now?" At subsequent interviews the question is: "Is [your, your spouse/partner's] [mother, father] still living?" This question is skipped if preloaded information indicates that the Respondent reported that the parent had died at a previous interview.

From Wave 7 forward, the answer is set to "Yes" without asking the question if the parent is a resident in the Respondent's household.

**HRS Variables Used**

HRS 1992:  
 V8203PF            PARS:ALIVE NOW? /Sp-Prtnr Dad  
 V8203PM            PARS:ALIVE NOW? /Sp-Prtnr Mom  
 V8203RF            PARS:ALIVE NOW? /Own Dad  
 V8203RM            PARS:ALIVE NOW? /Own Mom  
 V8205PF            PARS:AGE                    :IMP /Sp-Prtnr Dad  
 V8205PM            PARS:AGE                    :IMP /Sp-Prtnr Mom  
 V8205RF            PARS:AGE                    :IMP /Own Dad  
 V8205RM            PARS:AGE                    :IMP /Own Mom  
 V8209PF            PARS:AGE WHEN DIED       :IMP /Sp-Prtnr Dad  
 V8209PM            PARS:AGE WHEN DIED       :IMP /Sp-Prtnr Mom  
 V8209RF            PARS:AGE WHEN DIED       :IMP /Own Dad  
 V8209RM            PARS:AGE WHEN DIED       :IMP /Own Mom  
 AHEAD 1993:  
   B565            D60. MOTHER LIVING  
   B566            D61a. MOTHER AGE  
   B572            D61c. MOTHER AGE DIED  
   B573            D61d. MOTHER AGE DIED DK 65+  
   B575            D61e. MOTHER AGE DIED DK 85+  
   B576            D62. FATHER LIVING  
   B577            D63a. FATHER AGE  
   B583            D63c. FATHER AGE DIED  
   B584            D63d. FATHER AGE DIED DK 65+  
   B586            D63e. FATHER AGE DIED DK 85+  
 HRS 1994:  
   W8201PF            Parent still living? /P Dad  
   W8201PM            Parent still living? /P Mom  
   W8201RF            Parent still living? /R Dad  
   W8201RM            Parent still living? /R Mom  
   W8202PF            Parent age /P Dad  
   W8202PM            Parent age /P Mom  
   W8202RF            Parent age /R Dad  
   W8202RM            Parent age /R Mom  
   W8206PF            Parent age at death /P Dad  
   W8206RF            Parent age at death /R Dad  
   W950            E: R Mother Alive Now  
   W951            E: R Father Alive Now  
   W954            E: S/P Mother Alive Now  
   W955            E: S/P Father Alive Now  
   W958            EE: R Mother Alive Now  
   W959            EE: R Father Alive Now  
   W960            EE: S/P Mother Alive Now  
   W961            EE: S/P Father Alive Now  
 AHEAD 1995:  
   D1613            D90.MOTHER LIVING  
   D1614            D91A.MOTHER AGE  
   D1617            D91D. AGE MOTHER DIED  
   D1621            D92.FATHER LIVING  
   D1622            D93A.FATHER AGE  
   D1629            D93C.FATHER AGE DIED  
 HRS 1996:  
   ER1557\_1            D90.MOTHER LIVING/Self  
   ER1557\_2            D90.MOTHER-IN-LAW LIVING/Self  
   ER1558\_1            D91A.MOTHER AGE/Self  
   ER1558\_2            D91A.MOTHER-IN-LAW AGE/Self  
   ER1561\_1            D92A. AGE MOTHER DIED/Self  
   ER1561\_2            D92A. AGE MOTHER-IN-LAW DIED/Self  
   ER1566\_1            D93.FATHER LIVING/Self

ER1566_2	D93.FATHER-IN-LAW LIVING/Self
ER1567_1	D94A.FATHER AGE/Self
ER1567_2	D94A.FATHER-IN-LAW AGE/Self
ER1570_1	D95A.FATHER AGE DIED/Self
ER1570_2	D95A.FATHER-IN-LAW AGE DIED/Self
ER1666_1	D145_.CKPT PARENTS ALIVE/Self
ER1666_2	D145.CKPT PARENTS-IN-LAW ALIVE/Self
HRS 1998:	
F1906	D90.MOTHER LIVING
F1907	D91A.MOTHER AGE
F1911	D92A. AGE MOTHER DIED
F1916	D93.FATHER LIVING
F1917	D94A.FATHER AGE
F1921	D95A.FATHER AGE DIED
F2068	D90-2.MOTHER-IN-LAW LIVING
F2069	D91A-2.MOTHER-IN-LAW AGE
F2073	D92A-2. AGE MOTHER-IN-LAW DIED
F2078	D93-2.FATHER-IN-LAW LIVING
F2079	D94A-2.FATHER-IN-LAW AGE
F2083	D95A-2.FATHER-IN-LAW AGE DIED
HRS 2000:	
G2122	D90.MOTHER LIVING
G2123	D91A.MOTHER AGE
G2127	D92A. AGE MOTHER DIED
G2132	D93.FATHER LIVING
G2133	D94A.FATHER AGE
G2137	D95A.FATHER AGE DIED
G2309	D90-2.MOTHER-IN-LAW LIVING
G2310	D91A-2.MOTHER-IN-LAW AGE
G2314	D92A-2. AGE MOTHER-IN-LAW DIED
G2319	D93-2.FATHER-IN-LAW LIVING
G2324	D95A-2.FATHER-IN-LAW AGE DIED
G658	CS15Y63.SAME SPOUSE AS LAST WAVE
HRS 2002:	
HF001	MOTHER ALIVE
HF002	MOTHERS AGE
HF006	AGE MOTHER DIED
HF011	FATHER ALIVE
HF012	FATHER AGE
HF016	AGE FATHER DIED
HRS 2004:	
JF001	MOTHER ALIVE
JF002	MOTHERS AGE
JF006	AGE MOTHER DIED
JF011	FATHER ALIVE
JF012	FATHER AGE
JF016	AGE FATHER DIED
HRS 2006:	
KF001	MOTHER ALIVE
KF002	MOTHERS AGE
KF006	AGE MOTHER DIED
KF011	FATHER ALIVE
KF012	FATHER AGE
KF016	AGE FATHER DIED
HRS 2008:	
LF001	MOTHER ALIVE
LF002	MOTHERS AGE
LF006	AGE MOTHER DIED
LF011	FATHER ALIVE

LF012	FATHER AGE
LF016	AGE FATHER DIED
HRS 2010:	
MF001	MOTHER ALIVE
MF002	MOTHERS AGE
MF006	AGE MOTHER DIED
MF011	FATHER ALIVE
MF012	FATHER AGE
MF016	AGE FATHER DIED
HRS 2012:	
NF001	MOTHER ALIVE
NF002	MOTHERS AGE
NF006	AGE MOTHER DIED
NF011	FATHER ALIVE
NF012	FATHER AGE
NF016	AGE FATHER DIED
HRS 2014:	
OF001	MOTHER ALIVE
OF002	MOTHERS AGE
OF006	AGE MOTHER DIED
OF011	FATHER ALIVE
OF012	FATHER AGE
OF016	AGE FATHER DIED
Tracker:	
AFAMR	1992 WHETHER FAMILY RESPONDENT
APPN	1992 SPOUSE-PARTNER PERSON NUMBER
BPPN	1993 SPOUSE-PARTNER PERSON NUMBER
CFAMR	1994 WHETHER FAMILY RESPONDENT
CPPN	1994 SPOUSE-PARTNER PERSON NUMBER
DPPN	1995 SPOUSE-PARTNER PERSON NUMBER
EFAMR	1996 WHETHER FAMILY RESPONDENT
EPPN	1996 SPOUSE-PARTNER PERSON NUMBER
FFAMR	1998 WHETHER FAMILY RESPONDENT
FPPN	1998 SPOUSE-PARTNER PERSON NUMBER
GFAMR	2000 WHETHER FAMILY RESPONDENT
GPPN	2000 SPOUSE-PARTNER PERSON NUMBER
HFAMR	2002 WHETHER FAMILY RESPONDENT
HPPN	2002 SPOUSE-PARTNER PERSON NUMBER
JFAMR	2004 WHETHER FAMILY RESPONDENT
JPPN	2004 SPOUSE-PARTNER PERSON NUMBER
KFAMR	2006 WHETHER FAMILY RESPONDENT
KPPN	2006 SPOUSE-PARTNER PERSON NUMBER
LFAMR	2008 WHETHER FAMILY RESPONDENT
LPPN	2008 SPOUSE-PARTNER PERSON NUMBER
MFAMR	2010 WHETHER FAMILY RESPONDENT
MPPN	2010 SPOUSE-PARTNER PERSON NUMBER
NFAMR	2012 WHETHER FAMILY RESPONDENT
NPPN	2012 SPOUSE-PARTNER PERSON NUMBER
OFAMR	2014 WHETHER FAMILY RESPONDENT
OPPN	2014 SPOUSE-PARTNER PERSON NUMBER



**Section B: Health**

<b>Self-report of health</b>
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Wave	Variable	Label	Type
1	R1SHLT	R1SHLT:W1 Self-report of health	Categ
2	R2SHLT	R2SHLT:W2 Self-report of health	Categ
3	R3SHLT	R3SHLT:W3 Self-report of health	Categ
4	R4SHLT	R4SHLT:W4 Self-report of health	Categ
5	R5SHLT	R5SHLT:W5 Self-report of health	Categ
6	R6SHLT	R6SHLT:W6 Self-report of health	Categ
7	R7SHLT	R7SHLT:W7 Self-report of health	Categ
8	R8SHLT	R8SHLT:W8 Self-report of health	Categ
9	R9SHLT	R9SHLT:W9 Self-report of health	Categ
10	R10SHLT	R10SHLT:W10 Self-report of health	Categ
11	R11SHLT	R11SHLT:W11 Self-report of health	Categ
12	R12SHLT	R12SHLT:W12 Self-report of health	Categ
1	S1SHLT	S1SHLT:W1 Self-report of health	Categ
2	S2SHLT	S2SHLT:W2 Self-report of health	Categ
3	S3SHLT	S3SHLT:W3 Self-report of health	Categ
4	S4SHLT	S4SHLT:W4 Self-report of health	Categ
5	S5SHLT	S5SHLT:W5 Self-report of health	Categ
6	S6SHLT	S6SHLT:W6 Self-report of health	Categ
7	S7SHLT	S7SHLT:W7 Self-report of health	Categ
8	S8SHLT	S8SHLT:W8 Self-report of health	Categ
9	S9SHLT	S9SHLT:W9 Self-report of health	Categ
10	S10SHLT	S10SHLT:W10 Self-report of health	Categ
11	S11SHLT	S11SHLT:W11 Self-report of health	Categ
12	S12SHLT	S12SHLT:W12 Self-report of health	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SHLT	12652	2.58	1.21	1.0	5.0
R2SHLT	19632	2.81	1.19	1.0	5.0
R3SHLT	17984	2.79	1.18	1.0	5.0
R4SHLT	21378	2.92	1.18	1.0	5.0
R5SHLT	19571	2.84	1.16	1.0	5.0
R6SHLT	18154	2.88	1.13	1.0	5.0
R7SHLT	20112	2.88	1.14	1.0	5.0
R8SHLT	18444	2.88	1.13	1.0	5.0
R9SHLT	17203	2.94	1.11	1.0	5.0
R10SHLT	22023	2.89	1.11	1.0	5.0
R11SHLT	20533	2.90	1.10	1.0	5.0
R12SHLT	18731	2.95	1.07	1.0	5.0
S1SHLT	9900	2.51	1.17	1.0	5.0
S2SHLT	13084	2.70	1.16	1.0	5.0
S3SHLT	11911	2.69	1.15	1.0	5.0
S4SHLT	13973	2.82	1.15	1.0	5.0
S5SHLT	12726	2.73	1.13	1.0	5.0
S6SHLT	11637	2.75	1.10	1.0	5.0
S7SHLT	12962	2.77	1.12	1.0	5.0
S8SHLT	11723	2.76	1.11	1.0	5.0
S9SHLT	10640	2.83	1.08	1.0	5.0
S10SHLT	13510	2.78	1.09	1.0	5.0
S11SHLT	12477	2.79	1.08	1.0	5.0
S12SHLT	11020	2.85	1.05	1.0	5.0

## Categorical Variable Codes

Value	R1SHLT	R2SHLT	R3SHLT	R4SHLT	R5SHLT	R6SHLT	R7SHLT
.D=DK/NA		8	3	6	7	8	13
.M=Oth missing			2				
.R=RF		2	2		1	3	4
1.Excellent	2807	2982	2664	2633	2473	2049	2363
2.Very good	3481	5241	5078	5467	5652	5080	5476
3.Good	3544	5812	5262	6541	5903	5739	6280
4.Fair	1807	3660	3325	4400	3681	3616	4135
5.Poor	1013	1937	1655	2337	1862	1670	1858

Value	R8SHLT	R9SHLT	R10SHLT	R11SHLT	R12SHLT
.D=DK/NA	23	11	11	15	14
.M=Oth missing	1			1	
.R=RF	1	3		5	2
1.Excellent	2032	1550	2190	1929	1484
2.Very good	5261	4881	6394	6056	5255
3.Good	5623	5514	6898	6511	6251
4.Fair	3874	3625	4652	4300	4239
5.Poor	1654	1633	1889	1737	1502

Value	S1SHLT	S2SHLT	S3SHLT	S4SHLT	S5SHLT	S6SHLT	S7SHLT
.D=DK/NA		3	2	5	4	2	7
.M=Oth missing			2				
.R=RF		1					3
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Excellent	2293	2166	1926	1871	1769	1498	1718
2.Very good	2848	3819	3618	3887	3984	3580	3857
3.Good	2809	3844	3487	4360	3842	3700	4080
4.Fair	1287	2225	1990	2606	2147	2037	2339
5.Poor	663	1030	890	1249	984	822	968

Value	S8SHLT	S9SHLT	S10SHLT	S11SHLT	S12SHLT
.D=DK/NA	12	5	3	7	7
.M=Oth missing				1	
.R=RF		1		3	
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Excellent	1502	1076	1495	1307	976
2.Very good	3627	3276	4325	3998	3356
3.Good	3612	3516	4231	4002	3758
4.Fair	2144	1978	2512	2310	2204
5.Poor	838	794	947	860	726

## How Constructed

RwSHLT is the Respondent's self-reported general health status. Codes range from "1" for Excellent to "5" for Poor. SwSHLT is the Respondent's spouse or partner's self-reported general health status.

RwSHLT is assigned the value of the raw variable except where the missing values for don't know, refused, and other missings are recoded to .D, .R, and .M, respectively.

RwSHLT and SwSHLT are used in the construction of a change in health variable RwSHLTC. Please see "Change in Health" for a description of these measures.

The SwSHLT variables are taken from the Wave "w" spouse's self-reported RwSHLT variables.

## Cross Wave Differences in Original HRS Data

In Wave 1 values for self-reported health status are imputed by HRS if missing. These imputations are used. From Wave 2 forward, values are not imputed by HRS.

### HRS Variables Used

HRS 1992:	
V301	B1:RATE CURRENT HEAL:IMP
AHEAD 1993:	
B204	B1. RATE HEALTH
HRS 1994:	
W301	B1.RATE CURRENT HEALTH
AHEAD 1995:	
D769	B1. RATE HEALTH
HRS 1996:	
E769	B1. RATE HEALTH
HRS 1998:	
F1097	B1. RATE HEALTH
HRS 2000:	
G1226	B1. RATE HEALTH
HRS 2002:	
HC001	RATE HEALTH
HRS 2004:	
JC001	RATE HEALTH
HRS 2006:	
KC001	RATE HEALTH
HRS 2008:	
LC001	RATE HEALTH
HRS 2010:	
MC001	RATE HEALTH
HRS 2012:	
NC001	RATE HEALTH
HRS 2014:	
OC001	RATE HEALTH

### Self-report of health change

Wave	Variable	Label	Type
1	R1HLTC	R1HLTC:W1 Self-report of health change	Categ
2	R2HLTC	R2HLTC:W2 Self-report of health change	Categ
3	R3HLTC	R3HLTC:W3 Self-report of health change	Categ
4	R4HLTC	R4HLTC:W4 Self-report of health change	Categ
5	R5HLTC	R5HLTC:W5 Self-report of health change	Categ
6	R6HLTC	R6HLTC:W6 Self-report of health change	Categ
7	R7HLTC	R7HLTC:W7 Self-report of health change	Categ
8	R8HLTC	R8HLTC:W8 Self-report of health change	Categ
9	R9HLTC	R9HLTC:W9 Self-report of health change	Categ
10	R10HLTC	R10HLTC:W10 Self-report of health change	Categ
11	R11HLTC	R11HLTC:W11 Self-report of health change	Categ
12	R12HLTC	R12HLTC:W12 Self-report of health change	Categ
1	S1HLTC	S1HLTC:W1 Self-report of health change	Categ
2	S2HLTC	S2HLTC:W2 Self-report of health change	Categ
3	S3HLTC	S3HLTC:W3 Self-report of health change	Categ
4	S4HLTC	S4HLTC:W4 Self-report of health change	Categ
5	S5HLTC	S5HLTC:W5 Self-report of health change	Categ
6	S6HLTC	S6HLTC:W6 Self-report of health change	Categ
7	S7HLTC	S7HLTC:W7 Self-report of health change	Categ
8	S8HLTC	S8HLTC:W8 Self-report of health change	Categ
9	S9HLTC	S9HLTC:W9 Self-report of health change	Categ
10	S10HLTC	S10HLTC:W10 Self-report of health change	Categ
11	S11HLTC	S11HLTC:W11 Self-report of health change	Categ
12	S12HLTC	S12HLTC:W12 Self-report of health change	Categ
3	R3HLTCF	R3HLTCF:W3 Flag self-report of hlth chg	Categ
4	R4HLTCF	R4HLTCF:W4 Flag self-report of hlth chg	Categ
5	R5HLTCF	R5HLTCF:W5 Flag self-report of hlth chg	Categ
6	R6HLTCF	R6HLTCF:W6 Flag self-report of hlth chg	Categ
7	R7HLTCF	R7HLTCF:W7 Flag self-report of hlth chg	Categ
8	R8HLTCF	R8HLTCF:W8 Flag self-report of hlth chg	Categ
9	R9HLTCF	R9HLTCF:W9 Flag self-report of hlth chg	Categ
10	R10HLTCF	R10HLTCF:W10 Flag self-report of hlth chg	Categ
11	R11HLTCF	R11HLTCF:W11 Flag self-report of hlth chg	Categ
12	R12HLTCF	R12HLTCF:W12 Flag self-report of hlth chg	Categ
3	S3HLTCF	S3HLTCF:W3 Flag self-report of hlth chg	Categ
4	S4HLTCF	S4HLTCF:W4 Flag self-report of hlth chg	Categ
5	S5HLTCF	S5HLTCF:W5 Flag self-report of hlth chg	Categ
6	S6HLTCF	S6HLTCF:W6 Flag self-report of hlth chg	Categ
7	S7HLTCF	S7HLTCF:W7 Flag self-report of hlth chg	Categ
8	S8HLTCF	S8HLTCF:W8 Flag self-report of hlth chg	Categ
9	S9HLTCF	S9HLTCF:W9 Flag self-report of hlth chg	Categ
10	S10HLTCF	S10HLTCF:W10 Flag self-report of hlth chg	Categ
11	S11HLTCF	S11HLTCF:W11 Flag self-report of hlth chg	Categ
12	S12HLTCF	S12HLTCF:W12 Flag self-report of hlth chg	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HLTC	12651	2.94	0.73	1.0	5.0
R2HLTC	19631	3.10	0.94	1.0	5.0
R3HLTC	17786	3.16	0.81	1.0	5.0
R4HLTC	16284	3.23	0.83	1.0	5.0
R5HLTC	19300	3.19	0.80	1.0	5.0
R6HLTC	17920	3.22	0.80	1.0	5.0
R7HLTC	16642	3.19	0.59	2.0	4.0
R8HLTC	18236	3.17	0.59	2.0	4.0

R9HLTC	17053	3.18	0.59	2.0	4.0
R10HLTC	15564	3.18	0.59	2.0	4.0
R11HLTC	20003	3.12	0.59	2.0	4.0
R12HLTC	18532	3.13	0.58	2.0	4.0
S1HLTC	9899	2.92	0.70	1.0	5.0
S2HLTC	13080	3.07	0.86	1.0	5.0
S3HLTC	11735	3.13	0.78	1.0	5.0
S4HLTC	10469	3.19	0.79	1.0	5.0
S5HLTC	12476	3.16	0.77	1.0	5.0
S6HLTC	11416	3.17	0.76	1.0	5.0
S7HLTC	10477	3.16	0.58	2.0	4.0
S8HLTC	11525	3.14	0.57	2.0	4.0
S9HLTC	10496	3.15	0.57	2.0	4.0
S10HLTC	9400	3.16	0.58	2.0	4.0
S11HLTC	12025	3.10	0.58	2.0	4.0
S12HLTC	10846	3.10	0.57	2.0	4.0
R3HLTCF	17991	0.10	0.96	0.0	9.0
R4HLTCF	21384	2.15	3.84	0.0	9.0
R5HLTCF	19579	0.13	1.07	0.0	9.0
R6HLTCF	18165	0.12	1.04	0.0	9.0
R7HLTCF	20129	2.20	3.24	0.0	9.0
R8HLTCF	18469	0.86	1.33	0.0	9.0
R9HLTCF	17217	0.83	1.25	0.0	9.0
R10HLTCF	22034	3.18	3.84	0.0	9.0
R11HLTCF	20554	0.96	1.64	0.0	9.0
R12HLTCF	18747	0.81	1.30	0.0	9.0
S3HLTCF	11915	0.14	1.10	0.0	9.0
S4HLTCF	13978	2.26	3.90	0.0	9.0
S5HLTCF	12730	0.18	1.26	0.0	9.0
S6HLTCF	11639	0.17	1.23	0.0	9.0
S7HLTCF	12972	2.31	3.38	0.0	9.0
S8HLTCF	11735	0.85	1.45	0.0	9.0
S9HLTCF	10646	0.81	1.36	0.0	9.0
S10HLTCF	13513	3.24	3.89	0.0	9.0
S11HLTCF	12488	1.00	1.83	0.0	9.0
S12HLTCF	11027	0.80	1.41	0.0	9.0

## Categorical Variable Codes

Value	R1HLTC	R2HLTC	R3HLTC	R4HLTC	R5HLTC	R6HLTC	R7HLTC
.D=DK/NA		7	4	7	8	12	10
.M=Oth missing	1		2	3	5	6	5
.P=No prv IW			196	5090	265	226	3471
.R=RF		4	3		1	1	1
1.Much better	714	1558	824	642	802	686	
2.Somewhat better	1276	1008	1040	895	1060	905	1675
3.Same	9072	13236	11620	10169	12438	11343	10195
4.Somewhat worse	1248	1634	3120	3281	3718	3715	4772
5.Much worse	341	2195	1182	1297	1282	1271	

Value	R8HLTC	R9HLTC	R10HLTC	R11HLTC	R12HLTC
.D=DK/NA	16	20	16	27	28
.M=Oth missing	7		11	188	5
.P=No prv IW	207	143	6439	331	178
.R=RF	3	1	4	5	4
2.Somewhat better	1887	1712	1540	2424	2120
3.Same	11364	10640	9611	12659	11946
4.Somewhat worse	4985	4701	4413	4920	4466

Value	S1HLTC	S2HLTC	S3HLTC	S4HLTC	S5HLTC	S6HLTC	S7HLTC
.D=DK/NA		5	1	3	3	7	5
.M=Oth missing	1		2	3	4	6	5
.P=No prv IW			175	3503	247	209	2484
.R=RF		3	2			1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Much better	544	870	524	411	517	441	
2.Somewhat better	1011	765	713	576	677	585	1043
3.Same	7234	9176	7900	6831	8301	7579	6707
4.Somewhat worse	895	1172	1955	1966	2312	2199	2727
5.Much worse	215	1097	643	685	669	612	

Value	S8HLTC	S9HLTC	S10HLTC	S11HLTC	S12HLTC
.D=DK/NA	5	10	3	11	9
.M=Oth missing	6		11	138	5
.P=No prv IW	198	139	4096	313	167
.R=RF	1	1	3	1	
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
2.Somewhat better	1197	1051	940	1448	1239
3.Same	7500	6861	6008	7879	7236
4.Somewhat worse	2828	2584	2452	2698	2371

Value		R3HLTCF	R4HLTCF	R5HLTCF	R6HLTCF	R7HLTCF
0.No missing		17776	16278	19288	17909	10195
1.F1=.,filled frm F2		1				
2.F2=.,set to somewhat		9	6	12	11	6447
9.Both missing		205	5100	279	245	3487

Value		R8HLTCF	R9HLTCF	R10HLTCF	R11HLTCF	R12HLTCF
0.No missing		11364	10640	9611	12659	11946
2.F2=.,set to somewhat		6872	6413	5953	7344	6586
9.Both missing		233	164	6470	551	215

Value		S3HLTCF	S4HLTCF	S5HLTCF	S6HLTCF	S7HLTCF
.U=Unmarried		5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
0.No missing		11733	10468	12469	11409	6707
1.F1=.,filled frm F2		1				
2.F2=.,set to somewhat		1	1	7	7	3770
9.Both missing		180	3509	254	223	2495

Value		S8HLTCF	S9HLTCF	S10HLTCF	S11HLTCF	S12HLTCF
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		317	365	722	592	593
0.No missing		7500	6861	6008	7879	7236
2.F2=.,set to somewhat		4025	3635	3392	4146	3610
9.Both missing		210	150	4113	463	181

## How Constructed

RwHLTC is the Respondent's self-reported change in health since the last interview or in the last two years. SwHLTC is the Respondent's spouse or partner's self-reported change in health.

In Waves 1 and 2 RwHLTC is derived directly from the raw variables, with missing values recoded. For subsequent waves the question is asked in two parts, one for whether the Respondent's health is better or worse, and a follow-up question revealing how much better or worse. The derivation combines the lead-in and follow-up questions to arrive at the same 5-point scale used in the single Wave 1 and 2 questions. A few cases are missing values for one of the questions. If the follow-up question is not missing, its answer is used. If the lead-in question is answered but the follow-up is missing, "somewhat" was assumed and these cases are flagged in the RwHLTCF and SwHLTCF variables. Most cases that answer both questions give "somewhat" as the follow-up answer. From Wave 7 forward, the follow-up questions have been dropped, and the Respondent is asked only if health is better, about the same or worse since the last interview.

Please see also the calculated change in self-reported health variable (RwSHLTC) described later in this section. Note that RwHLTC asks the Respondent to assess retrospectively how her/his health has changed since the last interview while RwSHLTC compares measures of self-reported current health from the two time points.

The SwHLTC variables are taken from the Wave "w" spouse's self-reported RwHLTC variables.



## Cross Wave Differences in Original HRS Data

In Wave 1, the question asks the Respondent to compare her/his health to that of 1 year ago. The question asks the Respondent to rate change in health into 5 categories: "much better," "somewhat better," "about the same," "somewhat worse," and "much worse."

In Wave 2H, the question asks the Respondent to compare her/his health to that of 2 years ago or the Wave 1 interview. The question uses the same 5-category ratings as Wave 1. The question is skipped for interviews by proxy for deceased Respondents.

In Wave 2A, the question asks the Respondent to compare her/his health to that of 1 year ago. The question uses 3-category ratings: "better," "about the same," and "worse."

The question is asked for all Respondents.

From Wave 3 forward, the question is only asked of those who had a prior interview, and asks the Respondent to compare her/his health to that at the time of the last interview. It is asked in two parts. The first question asks the Respondent if health is "better," "about the same," or "worse" since the last interview. If the Respondent responds better, a follow-up question asks whether it is much better or somewhat better. Similarly if the Respondent responds worse, the follow-up asks whether it is much worse or somewhat worse.

From Wave 7 forward, the follow-up questions have been dropped, and the Respondent is asked only if health is better, about the same, or worse since the last interview.

## HRS Variables Used

HRS 1992:	
V302	B2:HEALTH:NOW, 1 YR :IMP
AHEAD 1993:	
B208	B2. RATE HEALTH PAST
HRS 1994:	
W302	B2.HEALTH NOW VERSUS 2 Y
AHEAD 1995:	
D772	B1A.RATE HEALTH PAST
D776	B1B.RATE BETTER
D777	B1C.RATE WORSE
HRS 1996:	
E772	B1A.RATE HEALTH PAST
E776	B1B.RATE BETTER
E777	B1C.RATE WORSE
HRS 1998:	
F1100	B1A.RATE HEALTH PAST
F1104	B1B.RATE BETTER
F1105	B1C.RATE WORSE
HRS 2000:	
G1229	B1A.RATE HEALTH PAST
G1233	B1B.RATE BETTER
G1234	B1C.RATE WORSE
HRS 2002:	
HC002	COMPARE HEALTH TO PREVIOUS WAVE
HC003	HEALTH BETTER-DEGREE
HC004	HEALTH WORSE-DEGREE
HRS 2004:	
JC002	COMPARE HEALTH TO PREVIOUS WAVE

HRS 2006:	
KC002	COMPARE HEALTH TO PREVIOUS WAVE
HRS 2008:	
LC002	COMPARE HEALTH TO PREVIOUS WAVE
HRS 2010:	
MC002	COMPARE HEALTH TO PREVIOUS WAVE
HRS 2012:	
NC002	COMPARE HEALTH TO PREVIOUS WAVE
HRS 2014:	
OC002	COMPARE HEALTH TO PREVIOUS WAVE

### Medical care utilization: Hospital

Wave	Variable	Label	Type
1	R1HOSP	R1HOSP:W1 Hospital stay, prv 12 mos	Categ
2	R2HOSP	R2HOSP:W2 Hospital stay, prv 2 yrs	Categ
3	R3HOSP	R3HOSP:W3 Hospital stay, prv 2 yrs	Categ
4	R4HOSP	R4HOSP:W4 Hospital stay, prv 2 yrs	Categ
5	R5HOSP	R5HOSP:W5 Hospital stay, prv 2 yrs	Categ
6	R6HOSP	R6HOSP:W6 Hospital stay, prv 2 yrs	Categ
7	R7HOSP	R7HOSP:W7 Hospital stay, prv 2 yrs	Categ
8	R8HOSP	R8HOSP:W8 Hospital stay, prv 2 yrs	Categ
9	R9HOSP	R9HOSP:W9 Hospital stay, prv 2 yrs	Categ
10	R10HOSP	R10HOSP:W10 Hospital stay, prv 2 yrs	Categ
11	R11HOSP	R11HOSP:W11 Hospital stay, prv 2 yrs	Categ
12	R12HOSP	R12HOSP:W12 Hospital stay, prv 2 yrs	Categ
1	S1HOSP	S1HOSP:W1 Hospital stay, prv 12 mos	Categ
2	S2HOSP	S2HOSP:W2 Hospital stay, prv 2 yrs	Categ
3	S3HOSP	S3HOSP:W3 Hospital stay, prv 2 yrs	Categ
4	S4HOSP	S4HOSP:W4 Hospital stay, prv 2 yrs	Categ
5	S5HOSP	S5HOSP:W5 Hospital stay, prv 2 yrs	Categ
6	S6HOSP	S6HOSP:W6 Hospital stay, prv 2 yrs	Categ
7	S7HOSP	S7HOSP:W7 Hospital stay, prv 2 yrs	Categ
8	S8HOSP	S8HOSP:W8 Hospital stay, prv 2 yrs	Categ
9	S9HOSP	S9HOSP:W9 Hospital stay, prv 2 yrs	Categ
10	S10HOSP	S10HOSP:W10 Hospital stay, prv 2 yrs	Categ
11	S11HOSP	S11HOSP:W11 Hospital stay, prv 2 yrs	Categ
12	S12HOSP	S12HOSP:W12 Hospital stay, prv 2 yrs	Categ
1	R1HSPTIM	R1HSPTIM:W1 # Hospitl stys, prv 12 mos	Cont
2	R2HSPTIM	R2HSPTIM:W2 # Hospital stays, prv 2 yrs	Cont
3	R3HSPTIM	R3HSPTIM:W3 # Hospital stays, prv 2 yrs	Cont
4	R4HSPTIM	R4HSPTIM:W4 # Hospital stays, prv 2 yrs	Cont
5	R5HSPTIM	R5HSPTIM:W5 # Hospital stays, prv 2 yrs	Cont
6	R6HSPTIM	R6HSPTIM:W6 # Hospital stays, prv 2 yrs	Cont
7	R7HSPTIM	R7HSPTIM:W7 # Hospital stays, prv 2 yrs	Cont
8	R8HSPTIM	R8HSPTIM:W8 # Hospital stays, prv 2 yrs	Cont
9	R9HSPTIM	R9HSPTIM:W9 # Hospital stays, prv 2 yrs	Cont
10	R10HSPTIM	R10HSPTIM:W10 # Hospital stays, prv 2 yrs	Cont
11	R11HSPTIM	R11HSPTIM:W11 # Hospital stays, prv 2 yrs	Cont
12	R12HSPTIM	R12HSPTIM:W12 # Hospital stays, prv 2 yrs	Cont
1	S1HSPTIM	S1HSPTIM:W1 # Hospitl stys, prv 12 mos	Cont
2	S2HSPTIM	S2HSPTIM:W2 # Hospital stays, prv 2 yrs	Cont
3	S3HSPTIM	S3HSPTIM:W3 # Hospital stays, prv 2 yrs	Cont
4	S4HSPTIM	S4HSPTIM:W4 # Hospital stays, prv 2 yrs	Cont
5	S5HSPTIM	S5HSPTIM:W5 # Hospital stays, prv 2 yrs	Cont
6	S6HSPTIM	S6HSPTIM:W6 # Hospital stays, prv 2 yrs	Cont
7	S7HSPTIM	S7HSPTIM:W7 # Hospital stays, prv 2 yrs	Cont
8	S8HSPTIM	S8HSPTIM:W8 # Hospital stays, prv 2 yrs	Cont
9	S9HSPTIM	S9HSPTIM:W9 # Hospital stays, prv 2 yrs	Cont
10	S10HSPTIM	S10HSPTIM:W10 # Hospital stays, prv 2 yrs	Cont
11	S11HSPTIM	S11HSPTIM:W11 # Hospital stays, prv 2 yrs	Cont
12	S12HSPTIM	S12HSPTIM:W12 # Hospital stays, prv 2 yrs	Cont
1	R1HSPNIT	R1HSPNIT:W1 # Hospitl nghts, prv 12 mos	Cont
2	R2HSPNIT	R2HSPNIT:W2 # Nights in hosp, prv 2 yrs	Cont
3	R3HSPNIT	R3HSPNIT:W3 # Nights in hosp, prv 2 yrs	Cont
4	R4HSPNIT	R4HSPNIT:W4 # Nights in hosp, prv 2 yrs	Cont
5	R5HSPNIT	R5HSPNIT:W5 # Nights in hosp, prv 2 yrs	Cont
6	R6HSPNIT	R6HSPNIT:W6 # Nights in hosp, prv 2 yrs	Cont
7	R7HSPNIT	R7HSPNIT:W7 # Nights in hosp, prv 2 yrs	Cont
8	R8HSPNIT	R8HSPNIT:W8 # Nights in hosp, prv 2 yrs	Cont
9	R9HSPNIT	R9HSPNIT:W9 # Nights in hosp, prv 2 yrs	Cont
10	R10HSPNIT	R10HSPNIT:W10 # Nights in hosp, prv 2 yrs	Cont
11	R11HSPNIT	R11HSPNIT:W11 # Nights in hosp, prv 2 yrs	Cont
12	R12HSPNIT	R12HSPNIT:W12 # Nights in hosp, prv 2 yrs	Cont
1	S1HSPNIT	S1HSPNIT:W1 # Hospitl nghts, prv 12 mos	Cont

2	S2HSPNIT	S2HSPNIT:W2 # Nights in hosp, prv 2 yrs	Cont
3	S3HSPNIT	S3HSPNIT:W3 # Nights in hosp, prv 2 yrs	Cont
4	S4HSPNIT	S4HSPNIT:W4 # Nights in hosp, prv 2 yrs	Cont
5	S5HSPNIT	S5HSPNIT:W5 # Nights in hosp, prv 2 yrs	Cont
6	S6HSPNIT	S6HSPNIT:W6 # Nights in hosp, prv 2 yrs	Cont
7	S7HSPNIT	S7HSPNIT:W7 # Nights in hosp, prv 2 yrs	Cont
8	S8HSPNIT	S8HSPNIT:W8 # Nights in hosp, prv 2 yrs	Cont
9	S9HSPNIT	S9HSPNIT:W9 # Nights in hosp, prv 2 yrs	Cont
10	S10HSPNIT	S10HSPNIT:W10 # Nights in hosp, prv 2 yrs	Cont
11	S11HSPNIT	S11HSPNIT:W11 # Nights in hosp, prv 2 yrs	Cont
12	S12HSPNIT	S12HSPNIT:W12 # Nights in hosp, prv 2 yrs	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HOSP	12639	0.11	0.32	0.0	1.0
R2HOSP	19807	0.20	0.40	0.0	1.0
R3HOSP	17945	0.25	0.43	0.0	1.0
R4HOSP	21345	0.26	0.44	0.0	1.0
R5HOSP	19541	0.26	0.44	0.0	1.0
R6HOSP	18121	0.28	0.45	0.0	1.0
R7HOSP	20066	0.26	0.44	0.0	1.0
R8HOSP	18431	0.27	0.45	0.0	1.0
R9HOSP	17166	0.28	0.45	0.0	1.0
R10HOSP	21725	0.28	0.45	0.0	1.0
R11HOSP	20456	0.26	0.44	0.0	1.0
R12HOSP	18648	0.25	0.43	0.0	1.0
S1HOSP	9890	0.11	0.31	0.0	1.0
S2HOSP	13281	0.18	0.39	0.0	1.0
S3HOSP	11898	0.22	0.42	0.0	1.0
S4HOSP	13970	0.24	0.43	0.0	1.0
S5HOSP	12716	0.23	0.42	0.0	1.0
S6HOSP	11624	0.25	0.43	0.0	1.0
S7HOSP	12953	0.23	0.42	0.0	1.0
S8HOSP	11727	0.25	0.43	0.0	1.0
S9HOSP	10629	0.26	0.44	0.0	1.0
S10HOSP	13335	0.25	0.44	0.0	1.0
S11HOSP	12456	0.23	0.42	0.0	1.0
S12HOSP	10994	0.22	0.42	0.0	1.0
R1HSPTIM	12633	0.19	0.96	0.0	60.0
R2HSPTIM	19795	0.37	1.68	0.0	99.0
R3HSPTIM	17925	0.45	1.27	0.0	75.0
R4HSPTIM	21321	0.48	1.29	0.0	51.0
R5HSPTIM	19522	0.45	1.45	0.0	120.0
R6HSPTIM	18077	0.49	1.27	0.0	60.0
R7HSPTIM	20021	0.47	1.34	0.0	60.0
R8HSPTIM	18384	0.48	1.13	0.0	25.0
R9HSPTIM	17127	0.51	1.24	0.0	50.0
R10HSPTIM	21675	0.56	1.63	0.0	75.0
R11HSPTIM	20396	0.49	1.30	0.0	33.0
R12HSPTIM	18601	0.48	1.39	0.0	50.0
S1HSPTIM	9887	0.17	0.66	0.0	21.0
S2HSPTIM	13078	0.32	1.45	0.0	96.0
S3HSPTIM	11890	0.38	1.07	0.0	50.0

S4HSPTIM	13958	0.42	1.18	0.0	51.0
S5HSPTIM	12710	0.39	1.50	0.0	120.0
S6HSPTIM	11604	0.43	1.26	0.0	60.0
S7HSPTIM	12934	0.40	1.05	0.0	30.0
S8HSPTIM	11711	0.43	1.07	0.0	25.0
S9HSPTIM	10615	0.44	1.21	0.0	50.0
S10HSPTIM	13314	0.49	1.48	0.0	75.0
S11HSPTIM	12426	0.43	1.21	0.0	30.0
S12HSPTIM	10977	0.41	1.29	0.0	50.0
R1HSPNIT	12625	1.22	7.36	0.0	182.0
R2HSPNIT	19645	2.14	10.39	0.0	350.0
R3HSPNIT	17865	2.61	10.64	0.0	520.0
R4HSPNIT	21261	2.60	12.18	0.0	970.0
R5HSPNIT	19466	2.41	10.86	0.0	730.0
R6HSPNIT	17998	2.65	12.19	0.0	730.0
R7HSPNIT	19957	2.45	11.46	0.0	712.0
R8HSPNIT	18325	2.57	12.31	0.0	614.0
R9HSPNIT	17047	2.43	10.60	0.0	609.0
R10HSPNIT	21590	2.42	10.06	0.0	400.0
R11HSPNIT	20318	2.15	9.70	0.0	450.0
R12HSPNIT	18510	2.06	10.55	0.0	730.0
S1HSPNIT	9880	1.06	6.50	0.0	182.0
S2HSPNIT	13065	1.85	9.32	0.0	300.0
S3HSPNIT	11869	2.02	9.25	0.0	520.0
S4HSPNIT	13939	2.15	12.08	0.0	970.0
S5HSPNIT	12691	1.92	10.73	0.0	730.0
S6HSPNIT	11568	2.06	7.53	0.0	152.0
S7HSPNIT	12913	1.98	9.94	0.0	712.0
S8HSPNIT	11684	2.07	10.02	0.0	500.0
S9HSPNIT	10591	2.08	10.33	0.0	609.0
S10HSPNIT	13284	2.07	9.42	0.0	365.0
S11HSPNIT	12400	1.83	8.47	0.0	393.0
S12HSPNIT	10946	1.75	8.76	0.0	300.0

## Categorical Variable Codes

Value	R1HOSP	R2HOSP	R3HOSP	R4HOSP	R5HOSP	R6HOSP	R7HOSP
.D=DK/NA	3	8	13	16	15	23	34
.M=Oth missing	10	1	30	20	20	15	21
.R=RF		1	3	3	3	6	8
0.No	11196	15830	13462	15720	14513	13108	14803
1.Yes	1443	3977	4483	5625	5028	5013	5263

Value	R8HOSP	R9HOSP	R10HOSP	R11HOSP	R12HOSP
.D=DK/NA	18	29	33	29	40
.M=Oth missing	16	17	262	64	51
.R=RF	4	5	14	5	8
0.No	13371	12306	15620	15235	14000
1.Yes	5060	4860	6105	5221	4648

Value	S1HOSP	S2HOSP	S3HOSP	S4HOSP	S5HOSP	S6HOSP	S7HOSP
.D=DK/NA	2	5	6	2	8	6	9
.M=Oth missing	8	1	10	6	5	5	4
.R=RF		1	1		1	4	6
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.No	8816	10829	9244	10616	9800	8754	9911
1.Yes	1074	2452	2654	3354	2916	2870	3042

Value	S8HOSP	S9HOSP	S10HOSP	S11HOSP	S12HOSP
.D=DK/NA	4	10	19	12	16
.M=Oth missing	3	4	149	19	16
.R=RF	1	3	10	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8808	7914	9942	9552	8535
1.Yes	2919	2715	3393	2904	2459

## How Constructed

RwHOSP indicates whether the Respondent reports any overnight hospital stay in the reference period. In Wave 1 and 2A, the reference period is 12 months; in other waves it is the period since the last interview, or the last 2 years for new interviewees. If the Respondent reports any overnight hospital stay, RwHSPTIM is the reported number of stays and RwHSPNIT is the reported number of nights over all stays. If the previous interview was more than two years ago, it is possible for RwHSPNIT to exceed 720 (365 x 2 years, 365 x 4 years, etc.). These high values can be checked against the INW variables, which indicate whether the Respondent was present for the wave in question.

SwHOSP, SwHSPTIM, and SwHSPNIT give this information for the Respondent's spouse or partner.

Medical care utilization variables are recoded for missing values. In Wave 1, the medical utilization variables are imputed in the original HRS data. Imputed values are recoded to missing. RwHOSP is recoded as a yes/no indicator. If the Respondent did not report any hospital stay, then RwHSPTIM and RwHSPNIT are set to zero.

In Wave 2A, questions about hospital utilization were asked of the Financial Respondent (for both in a couple.) In addition, the question about any overnight hospital stay was asked of all individual Respondents. When both levels of information are available, the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible, we use HH level data to fill missing spouse/partners' information.

In Wave 2A, the S2HOSP is taken from spouses' or HH-level response. For all other waves, the spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3HOSP is taken from the Wave 3 spouse's R3HOSP variable.

### Cross Wave Differences in Original HRS Data

The questions about medical service utilization vary across waves. Waves 1 and 2A questions ask about the last 12 months, while questions in subsequent waves ask about the period since the previous interview or the last 2 years.

In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2H, questions are added that ask about prescription drugs. In Wave 2A and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

In Wave 2A, the Financial Respondent was asked the medical utilization and expenditure questions, which differs from all other waves. Questions asked only of the Financial Respondent yield HH-level data, and those asked of all Respondents yield Respondent-level data. Note that when both levels are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use HH level data to fill missing spouse/partners' information.

For hospital stays, the questions ask if the Respondent was a patient overnight, how many times, and how many nights altogether. In Wave 2A and from Wave 3 on, the question wording refers to "how many different times," instead of "how many times."

### HRS Variables Used

HRS 1992:	
V10533	B45:PST YR:HOSP OVRN:IND
V533	B45:PST YR:HOSP OVRN:IMP
V534	B45A:PST YR:TIMES HO:IMP
V535	B45B:PST YR:#NIGHTS :IMP
AHEAD 1993:	
B605R	E1. R IN HOSPITAL LAST 12 MOS
B606	E2. # TIMES R IN HOSPITAL LAST 12 MOS
B607	E3. # NIGHTS IN HOSPITAL LAST 12 MOS
HRS 1994:	
W410	B29.HOSPITAL OVERNIGHT
W411	B29a.TIMES IN HOSPITAL O
W412	B29b.NUMBER OF NIGHTS IN
AHEAD 1995:	
D1664	E1. HOSPITAL
D1665	E2. HOSPITAL TIMES
D1666	E3. HOSP-1 #NIGHTS
HRS 1996:	
E1770	E1. HOSPITAL-YR
E1771	E2. HOSPITAL TIMES
E1772	E3. HOSP-1 #NIGHTS
HRS 1998:	
F2295	E1. HOSPITAL-YR
F2296	E2. HOSPITAL TIMES
F2297	E3. HOSP-1 #NIGHTS

HRS 2000:  
G2567 E1. HOSPITAL-YR  
G2568 E2. HOSPITAL TIMES  
G2569 E3. HOSP-1 #NIGHTS

HRS 2002:  
HN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
HN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
HN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2004:  
JN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
JN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
JN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2006:  
KN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
KN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
KN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2008:  
LN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
LN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
LN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2010:  
MN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
MN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
MN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2012:  
NN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
NN100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
NN101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL

HRS 2014:  
ON099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
ON100 NUM TIMES R STAYED OVERNIGHT IN HOSP  
ON101 NUM NIGHTS R SPENT OVERNIGHT IN HOSPITAL



### Medical care utilization: Nursing Home

Wave	Variable	Label	Type
1	R1NRSHOM	R1NRSHOM:W1 Nurs home stay, prv 12 mos	Categ
2	R2NRSHOM	R2NRSHOM:W2 Nurs home stay, prv 2 yrs	Categ
3	R3NRSHOM	R3NRSHOM:W3 Nurs home stay, prv 2 yrs	Categ
4	R4NRSHOM	R4NRSHOM:W4 Nurs home stay, prv 2 yrs	Categ
5	R5NRSHOM	R5NRSHOM:W5 Nurs home stay, prv 2 yrs	Categ
6	R6NRSHOM	R6NRSHOM:W6 Nurs home stay, prv 2 yrs	Categ
7	R7NRSHOM	R7NRSHOM:W7 Nurs home stay, prv 2 yrs	Categ
8	R8NRSHOM	R8NRSHOM:W8 Nurs home stay, prv 2 yrs	Categ
9	R9NRSHOM	R9NRSHOM:W9 Nurs home stay, prv 2 yrs	Categ
10	R10NRSHOM	R10NRSHOM:W10 Nurs home stay, prv 2 yrs	Categ
11	R11NRSHOM	R11NRSHOM:W11 Nurs home stay, prv 2 yrs	Categ
12	R12NRSHOM	R12NRSHOM:W12 Nurs home stay, prv 2 yrs	Categ
1	S1NRSHOM	S1NRSHOM:W1 Nurs home stay, prv 12 mos	Categ
2	S2NRSHOM	S2NRSHOM:W2 Nurs home stay, prv 2 yrs	Categ
3	S3NRSHOM	S3NRSHOM:W3 Nurs home stay, prv 2 yrs	Categ
4	S4NRSHOM	S4NRSHOM:W4 Nurs home stay, prv 2 yrs	Categ
5	S5NRSHOM	S5NRSHOM:W5 Nurs home stay, prv 2 yrs	Categ
6	S6NRSHOM	S6NRSHOM:W6 Nurs home stay, prv 2 yrs	Categ
7	S7NRSHOM	S7NRSHOM:W7 Nurs home stay, prv 2 yrs	Categ
8	S8NRSHOM	S8NRSHOM:W8 Nurs home stay, prv 2 yrs	Categ
9	S9NRSHOM	S9NRSHOM:W9 Nurs home stay, prv 2 yrs	Categ
10	S10NRSHOM	S10NRSHOM:W10 Nurs home stay, prv 2 yrs	Categ
11	S11NRSHOM	S11NRSHOM:W11 Nurs home stay, prv 2 yrs	Categ
12	S12NRSHOM	S12NRSHOM:W12 Nurs home stay, prv 2 yrs	Categ
1	R1NRSTIM	R1NRSTIM:W1 # Nrs home stys, prv 12 mos	Cont
2	R2NRSTIM	R2NRSTIM:W2 # Nurs home stays, prv 2 yrs	Cont
3	R3NRSTIM	R3NRSTIM:W3 # Nurs home stays, prv 2 yrs	Cont
4	R4NRSTIM	R4NRSTIM:W4 # Nurs home stays, prv 2 yrs	Cont
5	R5NRSTIM	R5NRSTIM:W5 # Nurs home stays, prv 2 yrs	Cont
6	R6NRSTIM	R6NRSTIM:W6 # Nurs home stays, prv 2 yrs	Cont
7	R7NRSTIM	R7NRSTIM:W7 # Nurs home stays, prv 2 yrs	Cont
8	R8NRSTIM	R8NRSTIM:W8 # Nurs home stays, prv 2 yrs	Cont
9	R9NRSTIM	R9NRSTIM:W9 # Nurs home stays, prv 2 yrs	Cont
10	R10NRSTIM	R10NRSTIM:W10 # Nurs home stays, prv 2 yrs	Cont
11	R11NRSTIM	R11NRSTIM:W11 # Nurs home stays, prv 2 yrs	Cont
12	R12NRSTIM	R12NRSTIM:W12 # Nurs home stays, prv 2 yrs	Cont
1	S1NRSTIM	S1NRSTIM:W1 # Nrs home stys, prv 12 mos	Cont
2	S2NRSTIM	S2NRSTIM:W2 # Nurs home stays, prv 2 yrs	Cont
3	S3NRSTIM	S3NRSTIM:W3 # Nurs home stays, prv 2 yrs	Cont
4	S4NRSTIM	S4NRSTIM:W4 # Nurs home stays, prv 2 yrs	Cont
5	S5NRSTIM	S5NRSTIM:W5 # Nurs home stays, prv 2 yrs	Cont
6	S6NRSTIM	S6NRSTIM:W6 # Nurs home stays, prv 2 yrs	Cont
7	S7NRSTIM	S7NRSTIM:W7 # Nurs home stays, prv 2 yrs	Cont
8	S8NRSTIM	S8NRSTIM:W8 # Nurs home stays, prv 2 yrs	Cont
9	S9NRSTIM	S9NRSTIM:W9 # Nurs home stays, prv 2 yrs	Cont
10	S10NRSTIM	S10NRSTIM:W10 # Nurs home stays, prv 2 yrs	Cont
11	S11NRSTIM	S11NRSTIM:W11 # Nurs home stays, prv 2 yrs	Cont
12	S12NRSTIM	S12NRSTIM:W12 # Nurs home stays, prv 2 yrs	Cont
1	R1NRSNIT	R1NRSNIT:W1 # Nrs home nghts, prv 12 mos	Cont
2	R2NRSNIT	R2NRSNIT:W2 # Nights in nurs home, prv 2 yrs	Cont
3	R3NRSNIT	R3NRSNIT:W3 # Nights in nurs home, prv 2 yrs	Cont
4	R4NRSNIT	R4NRSNIT:W4 # Nights in nurs home, prv 2 yrs	Cont
5	R5NRSNIT	R5NRSNIT:W5 # Nights in nurs home, prv 2 yrs	Cont
6	R6NRSNIT	R6NRSNIT:W6 # Nights in nurs home, prv 2 yrs	Cont
7	R7NRSNIT	R7NRSNIT:W7 # Nights in nurs home, prv 2 yrs	Cont
8	R8NRSNIT	R8NRSNIT:W8 # Nights in nurs home, prv 2 yrs	Cont
9	R9NRSNIT	R9NRSNIT:W9 # Nights in nurs home, prv 2 yrs	Cont
10	R10NRSNIT	R10NRSNIT:W10 # Nights in nurs home, prv 2 yrs	Cont
11	R11NRSNIT	R11NRSNIT:W11 # Nights in nurs home, prv 2 yrs	Cont
12	R12NRSNIT	R12NRSNIT:W12 # Nights in nurs home, prv 2 yrs	Cont
1	S1NRSNIT	S1NRSNIT:W1 # Nrs home nghts, prv 12 mos	Cont

2	S2NRSNIT	S2NRSNIT:W2 # Nights in nurs home, prv 2 yrs	Cont
3	S3NRSNIT	S3NRSNIT:W3 # Nights in nurs home, prv 2 yrs	Cont
4	S4NRSNIT	S4NRSNIT:W4 # Nights in nurs home, prv 2 yrs	Cont
5	S5NRSNIT	S5NRSNIT:W5 # Nights in nurs home, prv 2 yrs	Cont
6	S6NRSNIT	S6NRSNIT:W6 # Nights in nurs home, prv 2 yrs	Cont
7	S7NRSNIT	S7NRSNIT:W7 # Nights in nurs home, prv 2 yrs	Cont
8	S8NRSNIT	S8NRSNIT:W8 # Nights in nurs home, prv 2 yrs	Cont
9	S9NRSNIT	S9NRSNIT:W9 # Nights in nurs home, prv 2 yrs	Cont
10	S10NRSNIT	S10NRSNIT:W10 # Nights in nurs home, prv 2 yrs	Cont
11	S11NRSNIT	S11NRSNIT:W11 # Nights in nurs home, prv 2 yrs	Cont
12	S12NRSNIT	S12NRSNIT:W12 # Nights in nurs home, prv 2 yrs	Cont
3	R3NHMLIV	R3NHMLIV:W3 Live in Nurs home at Iview	Categ
4	R4NHMLIV	R4NHMLIV:W4 Live in Nurs home at Iview	Categ
5	R5NHMLIV	R5NHMLIV:W5 Live in Nurs home at Iview	Categ
6	R6NHMLIV	R6NHMLIV:W6 Live in Nurs home at Iview	Categ
7	R7NHMLIV	R7NHMLIV:W7 Live in Nurs home at Iview	Categ
8	R8NHMLIV	R8NHMLIV:W8 Live in Nurs home at Iview	Categ
9	R9NHMLIV	R9NHMLIV:W9 Live in Nurs home at Iview	Categ
10	R10NHMLIV	R10NHMLIV:W10 Live in Nurs home at Iview	Categ
11	R11NHMLIV	R11NHMLIV:W11 Live in Nurs home at Iview	Categ
12	R12NHMLIV	R12NHMLIV:W12 Live in Nurs home at Iview	Categ
3	S3NHMLIV	S3NHMLIV:W3 Live in Nurs home at Iview	Categ
4	S4NHMLIV	S4NHMLIV:W4 Live in Nurs home at Iview	Categ
5	S5NHMLIV	S5NHMLIV:W5 Live in Nurs home at Iview	Categ
6	S6NHMLIV	S6NHMLIV:W6 Live in Nurs home at Iview	Categ
7	S7NHMLIV	S7NHMLIV:W7 Live in Nurs home at Iview	Categ
8	S8NHMLIV	S8NHMLIV:W8 Live in Nurs home at Iview	Categ
9	S9NHMLIV	S9NHMLIV:W9 Live in Nurs home at Iview	Categ
10	S10NHMLIV	S10NHMLIV:W10 Live in Nurs home at Iview	Categ
11	S11NHMLIV	S11NHMLIV:W11 Live in Nurs home at Iview	Categ
12	S12NHMLIV	S12NHMLIV:W12 Live in Nurs home at Iview	Categ
3	R3NHMMVY	R3NHMMVY:W3 Year moved to Nurs home	Cont
4	R4NHMMVY	R4NHMMVY:W4 Year moved to Nurs home	Cont
5	R5NHMMVY	R5NHMMVY:W5 Year moved to Nurs home	Cont
6	R6NHMMVY	R6NHMMVY:W6 Year moved to Nurs home	Cont
7	R7NHMMVY	R7NHMMVY:W7 Year moved to Nurs home	Cont
8	R8NHMMVY	R8NHMMVY:W8 Year moved to Nurs home	Cont
9	R9NHMMVY	R9NHMMVY:W9 Year moved to Nurs home	Cont
10	R10NHMMVY	R10NHMMVY:W10 Year moved to Nurs home	Cont
11	R11NHMMVY	R11NHMMVY:W11 Year moved to Nurs home	Cont
12	R12NHMMVY	R12NHMMVY:W12 Year moved to Nurs home	Cont
3	S3NHMMVY	S3NHMMVY:W3 Year moved to Nurs home	Cont
4	S4NHMMVY	S4NHMMVY:W4 Year moved to Nurs home	Cont
5	S5NHMMVY	S5NHMMVY:W5 Year moved to Nurs home	Cont
6	S6NHMMVY	S6NHMMVY:W6 Year moved to Nurs home	Cont
7	S7NHMMVY	S7NHMMVY:W7 Year moved to Nurs home	Cont
8	S8NHMMVY	S8NHMMVY:W8 Year moved to Nurs home	Cont
9	S9NHMMVY	S9NHMMVY:W9 Year moved to Nurs home	Cont
10	S10NHMMVY	S10NHMMVY:W10 Year moved to Nurs home	Cont
11	S11NHMMVY	S11NHMMVY:W11 Year moved to Nurs home	Cont
12	S12NHMMVY	S12NHMMVY:W12 Year moved to Nurs home	Cont
3	R3NHMMVM	R3NHMMVM:W3 Month moved to Nurs home	Cont
4	R4NHMMVM	R4NHMMVM:W4 Month moved to Nurs home	Cont
5	R5NHMMVM	R5NHMMVM:W5 Month moved to Nurs home	Cont
6	R6NHMMVM	R6NHMMVM:W6 Month moved to Nurs home	Cont
7	R7NHMMVM	R7NHMMVM:W7 Month moved to Nurs home	Cont
8	R8NHMMVM	R8NHMMVM:W8 Month moved to Nurs home	Cont
9	R9NHMMVM	R9NHMMVM:W9 Month moved to Nurs home	Cont
10	R10NHMMVM	R10NHMMVM:W10 Month moved to Nurs home	Cont
11	R11NHMMVM	R11NHMMVM:W11 Month moved to Nurs home	Cont
12	R12NHMMVM	R12NHMMVM:W12 Month moved to Nurs home	Cont
3	S3NHMMVM	S3NHMMVM:W3 Month moved to Nurs home	Cont
4	S4NHMMVM	S4NHMMVM:W4 Month moved to Nurs home	Cont
5	S5NHMMVM	S5NHMMVM:W5 Month moved to Nurs home	Cont
6	S6NHMMVM	S6NHMMVM:W6 Month moved to Nurs home	Cont
7	S7NHMMVM	S7NHMMVM:W7 Month moved to Nurs home	Cont

8	S8NHMMVM	S8NHMMVM:W8 Month moved to Nurs home	Cont
9	S9NHMMVM	S9NHMMVM:W9 Month moved to Nurs home	Cont
10	S10NHMMVM	S10NHMMVM:W10 Month moved to Nurs home	Cont
11	S11NHMMVM	S11NHMMVM:W11 Month moved to Nurs home	Cont
12	S12NHMMVM	S12NHMMVM:W12 Month moved to Nurs home	Cont
3	R3NHMDAY	R3NHMDAY:W3 Days in NH from Move/PrvIvw	Cont
4	R4NHMDAY	R4NHMDAY:W4 Days in NH from Move/PrvIvw	Cont
5	R5NHMDAY	R5NHMDAY:W5 Days in NH from Move/PrvIvw	Cont
6	R6NHMDAY	R6NHMDAY:W6 Days in NH from Move/PrvIvw	Cont
7	R7NHMDAY	R7NHMDAY:W7 Days in NH from Move/PrvIvw	Cont
8	R8NHMDAY	R8NHMDAY:W8 Days in NH from Move/PrvIvw	Cont
9	R9NHMDAY	R9NHMDAY:W9 Days in NH from Move/PrvIvw	Cont
10	R10NHMDAY	R10NHMDAY:W10 Days in NH from Move/PrvIvw	Cont
11	R11NHMDAY	R11NHMDAY:W11 Days in NH from Move/PrvIvw	Cont
12	R12NHMDAY	R12NHMDAY:W12 Days in NH from Move/PrvIvw	Cont
3	S3NHMDAY	S3NHMDAY:W3 Days in NH from Move/PrvIvw	Cont
4	S4NHMDAY	S4NHMDAY:W4 Days in NH from Move/PrvIvw	Cont
5	S5NHMDAY	S5NHMDAY:W5 Days in NH from Move/PrvIvw	Cont
6	S6NHMDAY	S6NHMDAY:W6 Days in NH from Move/PrvIvw	Cont
7	S7NHMDAY	S7NHMDAY:W7 Days in NH from Move/PrvIvw	Cont
8	S8NHMDAY	S8NHMDAY:W8 Days in NH from Move/PrvIvw	Cont
9	S9NHMDAY	S9NHMDAY:W9 Days in NH from Move/PrvIvw	Cont
10	S10NHMDAY	S10NHMDAY:W10 Days in NH from Move/PrvIvw	Cont
11	S11NHMDAY	S11NHMDAY:W11 Days in NH from Move/PrvIvw	Cont
12	S12NHMDAY	S12NHMDAY:W12 Days in NH from Move/PrvIvw	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1NRSHOM	12622	0.00	0.03	0.0	1.0
R2NRSHOM	19815	0.01	0.09	0.0	1.0
R3NRSHOM	17953	0.03	0.16	0.0	1.0
R4NRSHOM	21362	0.03	0.18	0.0	1.0
R5NRSHOM	19560	0.04	0.19	0.0	1.0
R6NRSHOM	18137	0.05	0.21	0.0	1.0
R7NRSHOM	20101	0.04	0.19	0.0	1.0
R8NRSHOM	18445	0.05	0.21	0.0	1.0
R9NRSHOM	17188	0.05	0.22	0.0	1.0
R10NRSHOM	21744	0.05	0.21	0.0	1.0
R11NRSHOM	20481	0.05	0.22	0.0	1.0
R12NRSHOM	18685	0.05	0.23	0.0	1.0
S1NRSHOM	9877	0.00	0.03	0.0	1.0
S2NRSHOM	13286	0.01	0.09	0.0	1.0
S3NRSHOM	11902	0.01	0.11	0.0	1.0
S4NRSHOM	13972	0.01	0.12	0.0	1.0
S5NRSHOM	12725	0.02	0.13	0.0	1.0
S6NRSHOM	11627	0.02	0.14	0.0	1.0
S7NRSHOM	12962	0.02	0.13	0.0	1.0
S8NRSHOM	11729	0.02	0.15	0.0	1.0
S9NRSHOM	10635	0.02	0.15	0.0	1.0
S10NRSHOM	13350	0.03	0.16	0.0	1.0
S11NRSHOM	12465	0.03	0.16	0.0	1.0
S12NRSHOM	11005	0.03	0.17	0.0	1.0
R1NRSTIM	12622	0.00	0.03	0.0	1.0
R2NRSTIM	19811	0.01	0.39	0.0	50.0
R3NRSTIM	17941	0.03	0.25	0.0	11.0

R4NRSTIM	21333	0.04	0.62	0.0	73.0
R5NRSTIM	19539	0.04	0.26	0.0	10.0
R6NRSTIM	18107	0.06	0.57	0.0	58.0
R7NRSTIM	20077	0.05	0.69	0.0	71.0
R8NRSTIM	18426	0.06	0.49	0.0	30.0
R9NRSTIM	17164	0.07	0.57	0.0	56.0
R10NRSTIM	21705	0.06	0.48	0.0	50.0
R11NRSTIM	20404	0.07	1.00	0.0	90.0
R12NRSTIM	18609	0.07	0.70	0.0	76.0
S1NRSTIM	9877	0.00	0.03	0.0	1.0
S2NRSTIM	13085	0.00	0.07	0.0	3.0
S3NRSTIM	11897	0.02	0.18	0.0	10.0
S4NRSTIM	13963	0.02	0.34	0.0	36.0
S5NRSTIM	12717	0.02	0.18	0.0	9.0
S6NRSTIM	11623	0.03	0.35	0.0	30.0
S7NRSTIM	12958	0.02	0.18	0.0	9.0
S8NRSTIM	11725	0.03	0.38	0.0	24.0
S9NRSTIM	10630	0.03	0.58	0.0	56.0
S10NRSTIM	13340	0.04	0.51	0.0	50.0
S11NRSTIM	12455	0.04	0.39	0.0	36.0
S12NRSTIM	10989	0.04	0.76	0.0	76.0
R1NRSNIT	12622	0.10	4.91	0.0	365.0
R2NRSNIT	19805	0.40	8.79	0.0	510.0
R3NRSNIT	17926	6.10	56.89	0.0	1644.0
R4NRSNIT	21328	9.47	77.23	0.0	1440.0
R5NRSNIT	19525	11.02	82.97	0.0	1674.0
R6NRSNIT	18097	13.02	97.08	0.0	2283.0
R7NRSNIT	20069	11.05	84.01	0.0	3349.0
R8NRSNIT	18412	12.51	90.70	0.0	2344.0
R9NRSNIT	17147	13.11	90.70	0.0	1614.0
R10NRSNIT	21696	12.67	104.04	0.0	5325.0
R11NRSNIT	20409	10.98	83.59	0.0	2922.0
R12NRSNIT	18636	11.93	83.96	0.0	1620.0
S1NRSNIT	9877	0.10	5.15	0.0	365.0
S2NRSNIT	13082	0.17	5.44	0.0	360.0
S3NRSNIT	11894	2.99	43.05	0.0	1644.0
S4NRSNIT	13964	3.12	44.48	0.0	1308.0
S5NRSNIT	12715	3.55	46.67	0.0	1583.0
S6NRSNIT	11618	3.65	50.64	0.0	2252.0
S7NRSNIT	12960	2.77	39.62	0.0	1371.0
S8NRSNIT	11720	3.57	48.62	0.0	2100.0
S9NRSNIT	10629	3.10	39.50	0.0	945.0
S10NRSNIT	13340	3.78	46.73	0.0	1034.0
S11NRSNIT	12443	3.96	50.72	0.0	2922.0
S12NRSNIT	10994	3.61	42.77	0.0	1200.0
R3NHMLIV	17991	0.02	0.13	0.0	1.0
R4NHMLIV	21384	0.02	0.14	0.0	1.0
R5NHMLIV	19579	0.02	0.15	0.0	1.0
R6NHMLIV	18165	0.03	0.16	0.0	1.0
R7NHMLIV	20129	0.02	0.15	0.0	1.0
R8NHMLIV	18469	0.02	0.15	0.0	1.0
R9NHMLIV	17217	0.03	0.16	0.0	1.0
R10NHMLIV	22034	0.02	0.14	0.0	1.0
R11NHMLIV	20554	0.02	0.15	0.0	1.0
R12NHMLIV	18747	0.02	0.15	0.0	1.0

S3NHMLIV	11915	0.01	0.08	0.0	1.0
S4NHMLIV	13978	0.01	0.08	0.0	1.0
S5NHMLIV	12730	0.01	0.09	0.0	1.0
S6NHMLIV	11639	0.01	0.08	0.0	1.0
S7NHMLIV	12972	0.01	0.08	0.0	1.0
S8NHMLIV	11735	0.01	0.08	0.0	1.0
S9NHMLIV	10646	0.01	0.08	0.0	1.0
S10NHMLIV	13513	0.01	0.09	0.0	1.0
S11NHMLIV	12488	0.01	0.09	0.0	1.0
S12NHMLIV	11027	0.01	0.09	0.0	1.0
R3NHMMVY	290	1994.48	1.52	1978.0	1996.0
R4NHMMVY	416	1995.53	6.17	1919.0	1999.0
R5NHMMVY	450	1997.99	2.77	1968.0	2000.0
R6NHMMVY	434	1999.64	5.31	1910.0	2002.0
R7NHMMVY	436	2001.69	2.64	1984.0	2005.0
R8NHMMVY	421	2002.61	9.79	1913.0	2007.0
R9NHMMVY	411	2005.93	2.33	1994.0	2008.0
R10NHMMVY	443	2007.90	3.36	1963.0	2011.0
R11NHMMVY	450	2009.54	5.19	1917.0	2013.0
R12NHMMVY	410	2011.43	3.02	1984.0	2014.0
S3NHMMVY	79	1994.10	2.32	1978.0	1996.0
S4NHMMVY	84	1993.25	11.64	1919.0	1999.0
S5NHMMVY	93	1997.63	4.07	1968.0	2000.0
S6NHMMVY	73	2000.03	2.25	1989.0	2002.0
S7NHMMVY	76	2002.13	2.80	1989.0	2004.0
S8NHMMVY	82	2003.40	7.91	1935.0	2006.0
S9NHMMVY	75	2006.61	1.77	1999.0	2008.0
S10NHMMVY	107	2008.83	1.97	1998.0	2011.0
S11NHMMVY	95	2010.14	2.28	1998.0	2013.0
S12NHMMVY	80	2012.18	2.09	2002.0	2014.0
R3NHMMVM	289	5.90	3.73	1.0	12.0
R4NHMMVM	412	5.75	3.54	1.0	12.0
R5NHMMVM	436	5.84	3.43	1.0	12.0
R6NHMMVM	382	5.99	3.38	1.0	12.0
R7NHMMVM	388	5.95	3.30	1.0	12.0
R8NHMMVM	380	6.43	3.37	1.0	12.0
R9NHMMVM	368	6.50	3.37	1.0	12.0
R10NHMMVM	406	7.03	3.35	1.0	12.0
R11NHMMVM	419	6.38	3.49	1.0	12.0
R12NHMMVM	389	6.49	3.45	1.0	12.0
S3NHMMVM	77	6.19	3.90	1.0	12.0
S4NHMMVM	83	5.16	3.50	1.0	12.0
S5NHMMVM	90	5.58	3.39	1.0	12.0
S6NHMMVM	66	7.09	3.62	1.0	12.0
S7NHMMVM	70	5.91	3.29	1.0	12.0
S8NHMMVM	77	6.55	3.34	1.0	12.0
S9NHMMVM	70	7.09	3.38	1.0	12.0
S10NHMMVM	106	6.92	3.57	1.0	12.0
S11NHMMVM	92	5.55	3.54	1.0	12.0
S12NHMMVM	77	6.88	3.87	1.0	12.0
R3NHMDAY	290	371.16	266.11	15.0	1644.0
R4NHMDAY	416	452.76	303.35	15.0	1581.0
R5NHMDAY	450	469.46	304.21	15.0	1736.0

R6NHMDAY	434	517.21	338.32	15.0	2283.0
R7NHMDAY	435	469.89	307.52	15.0	3349.0
R8NHMDAY	421	491.05	306.73	15.0	2100.0
R9NHMDAY	411	480.66	304.49	15.0	1614.0
R10NHMDAY	443	537.50	350.13	15.0	1765.0
R11NHMDAY	450	452.43	290.35	15.0	2769.0
R12NHMDAY	410	484.38	266.76	15.0	1371.0
S3NHMDAY	79	428.30	312.44	15.0	1644.0
S4NHMDAY	84	475.15	326.26	15.0	1581.0
S5NHMDAY	93	455.92	307.89	15.0	1583.0
S6NHMDAY	73	497.85	358.79	15.0	2252.0
S7NHMDAY	76	385.86	307.38	15.0	1371.0
S8NHMDAY	82	438.46	376.87	15.0	2100.0
S9NHMDAY	75	371.41	267.35	15.0	945.0
S10NHMDAY	107	414.56	306.64	15.0	1034.0
S11NHMDAY	95	409.22	244.40	15.0	884.0
S12NHMDAY	80	430.15	284.60	15.0	1371.0

### Categorical Variable Codes

Value	R1NRSHOM	R2NRSHOM	R3NRSHOM	R4NRSHOM	R5NRSHOM	R6NRSHOM	R7NRSHOM
.D=DK/NA	7		1		1	6	3
.M=Oth missing	23	1	35	18	17	15	18
.R=RF		1	2	4	1	7	7
0.No	12608	19665	17456	20651	18836	17304	19306
1.Yes	14	150	497	711	724	833	795
Value	R8NRSHOM	R9NRSHOM	R10NRSHOM	R11NRSHOM	R12NRSHOM		
.D=DK/NA	4	8	15	7	12		
.M=Oth missing	16	16	262	63	48		
.R=RF	4	5	13	3	2		
0.No	17580	16319	20701	19469	17679		
1.Yes	865	869	1043	1012	1006		

Value	S1NRSHOM	S2NRSHOM	S3NRSHOM	S4NRSHOM	S5NRSHOM	S6NRSHOM	S7NRSHOM
.D=DK/NA	6					3	1
.M=Oth missing	17	1	13	6	5	5	4
.R=RF		1				4	5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.No	9867	13185	11752	13776	12522	11384	12750
1.Yes	10	101	150	196	203	243	212

Value	S8NRSHOM	S9NRSHOM	S10NRSHOM	S11NRSHOM	S12NRSHOM
.D=DK/NA	1	4	4	2	6
.M=Oth missing	3	4	150	19	15
.R=RF	2	3	9	2	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11464	10399	13003	12138	10688
1.Yes	265	236	347	327	317

Value	R3NHMLIV	R4NHMLIV	R5NHMLIV	R6NHMLIV	R7NHMLIV
0.No	17693	20955	19122	17705	19669
1.Yes	298	429	457	460	460

Value	R8NHMLIV	R9NHMLIV	R10NHMLIV	R11NHMLIV	R12NHMLIV
0.No	18031	16776	21565	20076	18305
1.Yes	438	441	469	478	442

Value	S3NHMLIV	S4NHMLIV	S5NHMLIV	S6NHMLIV	S7NHMLIV
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11834	13891	12635	11557	12892
1.Yes	81	87	95	82	80

Value	S8NHMLIV	S9NHMLIV	S10NHMLIV	S11NHMLIV	S12NHMLIV
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11652	10570	13405	12391	10945
1.Yes	83	76	108	97	82

## How Constructed

RwNRSHOM indicates whether the Respondent reports any overnight nursing home stay in the reference period. In Waves 1 and 2A, the reference period is 12 months, in other waves it is the period since the last interview, or the last 2 years for new interviewees. If the Respondent reports any overnight nursing home stay, RwNRSTIM is the reported number of stays, and RwNRSNIT is the reported number of nights over all stays.

From Wave 3 forward, a set of related variables provides information about nursing home residence when the Respondent is living in a nursing home at the time of the interview. RwNHMLIV indicates whether the Respondent lives in a nursing home or other health care facility at the time of the interview. For those living in a nursing home, RwNHMMVY and RwNHMMVM give the year and month of moving into the facility. RwNHMDAY is the calculated number days since the last interview that the Respondent has been living in a nursing home. If the move-in date is after the previous interview then RwNHMDAY is assigned the number of days between the 15th of the move-in month and the 15th of the current interview month. If the move-in date is earlier than the previous interview then RwNHMDAY is assigned the number of days between

interviews.

Beginning with Tracker 2004 V1, HRS implemented a verified nursing home residence flag for each wave (xNURSHM). From Wave 5 forward, there are cases at each interview where this information conflicts with nursing home residency reported in the core data cover sheet section. We incorporate the verified nursing home information from Tracker with nursing home utilization information. The question about any nursing home stay is filled by default as "Yes" for those living in a nursing home; in some cases the interviewer seems to have over-ridden this with a "No," but in others this did not occur. We examine these cases for length of stay, residency move-in date, and missing answers to estimate whether there is any nursing home utilization besides the residency reported in the core data, which HRS has determined is NOT a nursing home. If the length of stay is reported as zero nights, continuous since move-in (996), or is about the same as the length of residency as determined from move-in dates, then we assume that the stay is the same as the residence which is not a nursing home, i.e., that there is no nursing home utilization. If the answers to the number of times or number of nights are missing, we assume these indicate the realization that the current residence is not a nursing home, without knowing how to undo the default assumption of a nursing home stay, so in this case we also assume no nursing home utilization. If the number of stays is given as 5, we assume this was intended to be the normal code for "No," and assume no nursing home utilization in this situation as well. We also apply the Tracker information to RwnHMLIV, RwnHMMVM, RwnHMMVY, and RwnHMDAY. If Tracker indicates that the Respondent is not a nursing home resident, RwnHMLIV is set to "No" and the rest of the variables are irrelevant.

SwNRSHOM, SwNRSTIM, SwNRSNIT, SwNHMLIV, SwNHMMVY, SwNHMMVM, SwNHMDAY give this information for the Respondent's spouse or partner.

Medical care utilization variables are recoded for missing values. In Wave 1, the medical utilization variables are imputed in the original HRS data. Imputed values are recoded to missing. RwnNRSHOM is recoded as a yes/no indicator. Beginning in Wave 3, if the Respondent is currently in a nursing home, RwnNRSHOM is set to yes. If the Respondent did not report any nursing home stay, then RwnNRSTIM and RwnNRSNIT are set to zero. Beginning in Wave 3, the number of nights in a nursing home could be reported as 996, indicating "continuous since entered," if the Respondent is living in a nursing home at the time of the interview. For these cases, RwnHMDAY is assigned to RwnNRSNIT, unless more than one stay is reported and the number of days for the current stay is less than the time since last interview. If more than one stay is reported and RwnHMDAY is less than the entire time since last interview, then RwnNRSNIT is assigned the special missing value .L, as the length of at least one of the prior stays is unknown. If the previous interview was more than two years ago, then it is possible for RwnNRSNIT to exceed 720 (365 x 2 years, 365 x 4 years, etc.). These high values can be checked against the INW variables, which indicate whether the Respondent was present for the Wave in question.

In Wave 2A, the question about any overnight nursing home stay was asked at the household level of Financial Respondents for both the Financial Respondent and spouse, and of all individual Respondents as well. When both levels of information are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible, we use HH level data to fill missing spouse/partners' information.

In Wave 2A, the S2NRSHOM is taken from spouses' or HH-level response. For all other waves, the spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3NRSHOM is taken from the Wave 3 spouse's R3NRSHOM variable.

### **Cross Wave Differences in Original HRS Data**

The questions about medical service utilization vary across waves. Waves 1 and 2A questions ask about the last 12 months, while questions in subsequent waves ask about the period since the previous interview or the last 2 years.



In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2H, questions are added that ask about prescription drugs. In Wave 2A, and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

In Wave 2A, the Financial Respondent was asked the medical utilization and expenditure questions, which differs from all other waves. Questions asked only of the Financial Respondent yield HH-level data, and those asked of all Respondents yield Respondent-level data. Note that when both levels are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use HH level data to fill missing spouse/partners' information.

For nursing home stays, the questions ask if the Respondent was a patient in a nursing home overnight, how many times, and how many nights altogether. In Wave 2A and from Wave 3 on, the initial question text includes convalescent home or other long-term health care facility along with nursing home. Beginning in Wave 3, the initial question was skipped if the Respondent is currently living in a nursing home. For these nursing home residents, the second question asks how many times including now, and the third question regarding number of nights can be coded 996=continuous since entered.

The questions about residence in the nursing home at the time of the interview and when the Respondent moved into the nursing home begin in Wave 3. Note that in Waves 1 and 2A there are no Respondents living in a nursing home. In Wave 2H, there are only 6 Respondents who are nursing home residents, and there is no provision in the utilization section for using this information to determine use or length of stay. So we have chosen not to consider this information for so few Respondents. If others are interested in exploring this in Wave 2H, these cases are flagged by W109=21 in the core data. Move month and year are W107 and W108, also in the core data.

Beginning with Tracker 2004 V1, HRS implemented a verified nursing home residence flag for each wave, xNURSHM, e.g., GNURSHM for Wave 5 (2000). From Wave 5 forward, there are cases at each interview where this information conflicts with nursing home residency reported in the core data cover sheet section. In the questions about nursing home utilization, a cover-sheet reported nursing home resident is assigned as "Yes" for any nursing home stays by default. In some cases where Tracker indicates residence is NOT a nursing home, the interviewer had over-ridden this with a "No" for any nursing home stays, but in many cases this did not occur. We examine these cases for length of stay, residency move-in date, and missing answers to estimate whether there is any nursing home utilization besides the residency reported in the core data, which HRS has determined is NOT a nursing home.

## HRS Variables Used

### HRS 1992:

V10536	B46:PST YR:EVR IF NR:IND
V536	B46:PST YR:EVR IF NR:IMP
V537	B46A:1 YR:TIMES NURS
V538	B46B:YR:NIGHTS NURSG

### AHEAD 1993:

B622R	E5. R IN NURSING HOME LAST 12 MOS
B623	E6. # TIMES R IN NURSING HOME LAST 12 MO
B624	E7. # NIGHTS IN NURSING HOME LAST 12 MOS

### HRS 1994:

W415	B30.NURSING HOME OVERNIG
W416	B30a.TIMES IN NURSING HO
W417	B30b.NUMBER OF NIGHTS IN

### AHEAD 1995:

D1681	E5. NURSING HOME
D1682	E6. NURHM # TIMES
D1683	E7. NURHM-1 NIGHTS

D1684	E7A.NURHM-1 MONTHS
D240	CS11.R-WHERE LIVE
D417	CS25.MONTH MOVED TO NURS HOME
D418	CS25.YEAR MOVED TO NURS HOME
HRS 1996:	
E1776	E5. NURSING HOME-YR
E1777	E6. NURHM # TIMES
E1778	E7. NURHM-1 NIGHTS
E1779	E7A.NURHM-1 MONTHS
E240	CS11.R-WHERE LIVE
E417	CS25.MONTH MOVED TO NURS HOME
E418	CS25.YEAR MOVED TO NURS HOME
HRS 1998:	
F2299	E5. NURSING HOME-YR
F2300	E6. NURHM # TIMES
F2301	E7. NURHM-1 NIGHTS
F2302	E7A.NURHM-1 MONTHS
F517	CS11.R IN NURSING HOME
F718	CS25.MONTH MOVED TO NURS HOME
F719	CS25.YEAR MOVED TO NURS HOME
HRS 2000:	
G2571	E5. NURSING HOME-YR
G2572	E6. NURHM # TIMES
G2573	E7. NURHM-1 NIGHTS
G2574	E7A.NURHM-1 MONTHS
G558	CS11.R IN NURSING HOME
G789	CS25.MONTH MOVED TO NURS HOME
G790	CS25A. YEAR MOVED TO NURS HOME
HRS 2002:	
HA028	R IN NURSING HOME
HA065	MONTH MOVED TO NH
HA066	YEAR MOVED TO NURS HOME
HN114	EVER PATIENT OVERNIGHT IN NURSING HOME
HN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
HN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
HN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2004:	
JA028	R IN NURSING HOME
JA065	MONTH MOVED TO NH
JA066	YEAR MOVED TO NURS HOME
JN114	EVER PATIENT OVERNIGHT IN NURSING HOME
JN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
JN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
JN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2006:	
KA028	R IN NURSING HOME
KA065	MONTH MOVED TO NH
KA066	YEAR MOVED TO NURS HOME
KN114	EVER PATIENT OVERNIGHT IN NURSING HOME
KN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
KN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
KN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2008:	
LA028	R IN NURSING HOME
LA065	MONTH MOVED TO NH
LA066	YEAR MOVED TO NURS HOME
LN114	EVER PATIENT OVERNIGHT IN NURSING HOME
LN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
LN116	NUM NIGHTS R SPENT OVERNIGHT IN NH

LN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2010:	
MA028	R IN NURSING HOME
MA065	MONTH MOVED TO NH
MA066	YEAR MOVED TO NURS HOME
MN114	EVER PATIENT OVERNIGHT IN NURSING HOME
MN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
MN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
MN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2012:	
NA028	R IN NURSING HOME
NA065	MONTH MOVED TO NH
NA066	YEAR MOVED TO NURS HOME
NN114	EVER PATIENT OVERNIGHT IN NURSING HOME
NN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
NN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
NN117	NUM MOS R SPENT OVERNIGHT IN NH
HRS 2014:	
OA028	R IN NURSING HOME
OA065	MONTH MOVED TO NH
OA066	YEAR MOVED TO NURS HOME
ON114	EVER PATIENT OVERNIGHT IN NURSING HOME
ON115	# TIMES SPENT OVERNIGHT IN NURSING HOME
ON116	NUM NIGHTS R SPENT OVERNIGHT IN NH
ON117	NUM MOS R SPENT OVERNIGHT IN NH
Tracker:	
GNURSHM	2000 NURSING HOME STATUS
HNURSHM	2002 NURSING HOME STATUS
JNURSHM	2004 NURSING HOME STATUS
KNURSHM	2006 NURSING HOME STATUS
LNURSHM	2008 NURSING HOME STATUS
MNURSHM	2010 NURSING HOME STATUS
NNURSHM	2012 NURSING HOME STATUS
ONURSHM	2014 NURSING HOME STATUS

<b>Medical care utilization: Doctor</b>
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Wave	Variable	Label	Type
1	R1DOCTOR	R1DOCTOR:W1 Doctor visit, prv 12 mos	Categ
2	R2DOCTOR	R2DOCTOR:W2 Doctor visit, prv 2 yrs	Categ
3	R3DOCTOR	R3DOCTOR:W3 Doctor visit, prv 2 yrs	Categ
4	R4DOCTOR	R4DOCTOR:W4 Doctor visit, prv 2 yrs	Categ
5	R5DOCTOR	R5DOCTOR:W5 Doctor visit, prv 2 yrs	Categ
6	R6DOCTOR	R6DOCTOR:W6 Doctor visit, prv 2 yrs	Categ
7	R7DOCTOR	R7DOCTOR:W7 Doctor visit, prv 2 yrs	Categ
8	R8DOCTOR	R8DOCTOR:W8 Doctor visit, prv 2 yrs	Categ
9	R9DOCTOR	R9DOCTOR:W9 Doctor visit, prv 2 yrs	Categ
10	R10DOCTOR	R10DOCTOR:W10 Doctor visit, prv 2 yrs	Categ
11	R11DOCTOR	R11DOCTOR:W11 Doctor visit, prv 2 yrs	Categ
12	R12DOCTOR	R12DOCTOR:W12 Doctor visit, prv 2 yrs	Categ
1	S1DOCTOR	S1DOCTOR:W1 Doctor visit, prv 12 mos	Categ
2	S2DOCTOR	S2DOCTOR:W2 Doctor visit, prv 2 yrs	Categ
3	S3DOCTOR	S3DOCTOR:W3 Doctor visit, prv 2 yrs	Categ
4	S4DOCTOR	S4DOCTOR:W4 Doctor visit, prv 2 yrs	Categ
5	S5DOCTOR	S5DOCTOR:W5 Doctor visit, prv 2 yrs	Categ
6	S6DOCTOR	S6DOCTOR:W6 Doctor visit, prv 2 yrs	Categ
7	S7DOCTOR	S7DOCTOR:W7 Doctor visit, prv 2 yrs	Categ
8	S8DOCTOR	S8DOCTOR:W8 Doctor visit, prv 2 yrs	Categ
9	S9DOCTOR	S9DOCTOR:W9 Doctor visit, prv 2 yrs	Categ
10	S10DOCTOR	S10DOCTOR:W10 Doctor visit, prv 2 yrs	Categ
11	S11DOCTOR	S11DOCTOR:W11 Doctor visit, prv 2 yrs	Categ
12	S12DOCTOR	S12DOCTOR:W12 Doctor visit, prv 2 yrs	Categ
1	R1DOCTIM	R1DOCTIM:W1 # Doctor vists, prv 12 mos	Cont
2	R2DOCTIM	R2DOCTIM:W2 # Doctor vists, prv 2 yrs	Cont
3	R3DOCTIM	R3DOCTIM:W3 # Doctor vists, prv 2 yrs	Cont
4	R4DOCTIM	R4DOCTIM:W4 # Doctor vists, prv 2 yrs	Cont
5	R5DOCTIM	R5DOCTIM:W5 # Doctor vists, prv 2 yrs	Cont
6	R6DOCTIM	R6DOCTIM:W6 # Doctor vists, prv 2 yrs	Cont
7	R7DOCTIM	R7DOCTIM:W7 # Doctor vists, prv 2 yrs	Cont
8	R8DOCTIM	R8DOCTIM:W8 # Doctor vists, prv 2 yrs	Cont
9	R9DOCTIM	R9DOCTIM:W9 # Doctor vists, prv 2 yrs	Cont
10	R10DOCTIM	R10DOCTIM:W10 # Doctor vists, prv 2 yrs	Cont
11	R11DOCTIM	R11DOCTIM:W11 # Doctor vists, prv 2 yrs	Cont
12	R12DOCTIM	R12DOCTIM:W12 # Doctor vists, prv 2 yrs	Cont
1	S1DOCTIM	S1DOCTIM:W1 # Doctor vists, prv 12 mos	Cont
2	S2DOCTIM	S2DOCTIM:W2 # Doctor vists, prv 2 yrs	Cont
3	S3DOCTIM	S3DOCTIM:W3 # Doctor vists, prv 2 yrs	Cont
4	S4DOCTIM	S4DOCTIM:W4 # Doctor vists, prv 2 yrs	Cont
5	S5DOCTIM	S5DOCTIM:W5 # Doctor vists, prv 2 yrs	Cont
6	S6DOCTIM	S6DOCTIM:W6 # Doctor vists, prv 2 yrs	Cont
7	S7DOCTIM	S7DOCTIM:W7 # Doctor vists, prv 2 yrs	Cont
8	S8DOCTIM	S8DOCTIM:W8 # Doctor vists, prv 2 yrs	Cont
9	S9DOCTIM	S9DOCTIM:W9 # Doctor vists, prv 2 yrs	Cont
10	S10DOCTIM	S10DOCTIM:W10 # Doctor vists, prv 2 yrs	Cont
11	S11DOCTIM	S11DOCTIM:W11 # Doctor vists, prv 2 yrs	Cont
12	S12DOCTIM	S12DOCTIM:W12 # Doctor vists, prv 2 yrs	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DOCTOR	12593	0.79	0.41	0.0	1.0
R2DOCTOR	19555	0.89	0.31	0.0	1.0
R3DOCTOR	17551	0.93	0.26	0.0	1.0
R4DOCTOR	20920	0.93	0.25	0.0	1.0
R5DOCTOR	19516	0.94	0.23	0.0	1.0

R6DOCTOR	18143	0.94	0.23	0.0	1.0
R7DOCTOR	20092	0.94	0.24	0.0	1.0
R8DOCTOR	18440	0.95	0.22	0.0	1.0
R9DOCTOR	17191	0.95	0.22	0.0	1.0
R10DOCTOR	21753	0.90	0.30	0.0	1.0
R11DOCTOR	20476	0.90	0.30	0.0	1.0
R12DOCTOR	18680	0.90	0.30	0.0	1.0
S1DOCTOR	9858	0.79	0.41	0.0	1.0
S2DOCTOR	13184	0.88	0.32	0.0	1.0
S3DOCTOR	11712	0.93	0.26	0.0	1.0
S4DOCTOR	13792	0.93	0.25	0.0	1.0
S5DOCTOR	12714	0.94	0.23	0.0	1.0
S6DOCTOR	11631	0.94	0.23	0.0	1.0
S7DOCTOR	12959	0.94	0.24	0.0	1.0
S8DOCTOR	11728	0.95	0.22	0.0	1.0
S9DOCTOR	10637	0.95	0.23	0.0	1.0
S10DOCTOR	13352	0.91	0.29	0.0	1.0
S11DOCTOR	12463	0.90	0.30	0.0	1.0
S12DOCTOR	11005	0.90	0.30	0.0	1.0
R1DOCTIM	12593	4.46	8.67	0.0	95.0
R2DOCTIM	19555	6.18	10.88	0.0	336.0
R3DOCTIM	17551	9.00	14.63	0.0	600.0
R4DOCTIM	20920	10.17	18.52	0.0	730.0
R5DOCTIM	19052	9.86	16.21	0.0	500.0
R6DOCTIM	17451	10.78	20.37	0.0	900.0
R7DOCTIM	19428	10.68	23.27	0.0	840.0
R8DOCTIM	17623	10.62	18.65	0.0	612.0
R9DOCTIM	16191	10.62	17.83	0.0	525.0
R10DOCTIM	20817	10.98	24.53	0.0	900.0
R11DOCTIM	19501	10.04	25.43	0.0	900.0
R12DOCTIM	17166	9.61	20.67	0.0	900.0
S1DOCTIM	9858	4.23	8.15	0.0	95.0
S2DOCTIM	12984	5.90	10.33	0.0	300.0
S3DOCTIM	11712	8.53	14.90	0.0	600.0
S4DOCTIM	13792	9.55	18.54	0.0	730.0
S5DOCTIM	12481	9.32	15.18	0.0	360.0
S6DOCTIM	11328	10.19	20.15	0.0	900.0
S7DOCTIM	12653	10.18	22.75	0.0	840.0
S8DOCTIM	11331	10.14	18.84	0.0	612.0
S9DOCTIM	10174	10.18	17.90	0.0	500.0
S10DOCTIM	12946	10.40	21.99	0.0	900.0
S11DOCTIM	12041	9.58	24.02	0.0	900.0
S12DOCTIM	10296	9.32	21.64	0.0	900.0

## Categorical Variable Codes

Value	R1DOCTOR	R2DOCTOR	R3DOCTOR	R4DOCTOR	R5DOCTOR	R6DOCTOR	R7DOCTOR
.D=DK/NA	41	250	373	433	37	2	9
.M=Oth missing	18	2	56	20	20	15	21
.R=RF		10	11	11	6	5	7
0.No	2625	2100	1284	1418	1137	1058	1269
1.Yes	9968	17455	16267	19502	18379	17085	18823

Value	R8DOCTOR	R9DOCTOR	R10DOCTOR	R11DOCTOR	R12DOCTOR
.D=DK/NA	2	2	4	8	4
.M=Oth missing	22	18	264	64	54
.R=RF	5	6	13	6	9
0.No	954	917	2129	2082	1871
1.Yes	17486	16274	19624	18394	16809

Value	S1DOCTOR	S2DOCTOR	S3DOCTOR	S4DOCTOR	S5DOCTOR	S6DOCTOR	S7DOCTOR
.D=DK/NA	29	99	176	174	8		4
.M=Oth missing	13		24	6	5	5	4
.R=RF		5	3	6	3	3	5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.No	2066	1581	842	922	715	666	792
1.Yes	7792	11603	10870	12870	11999	10965	12167

Value	S8DOCTOR	S9DOCTOR	S10DOCTOR	S11DOCTOR	S12DOCTOR
.D=DK/NA			2	3	1
.M=Oth missing	5	5	150	19	16
.R=RF	2	4	9	3	5
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	609	570	1265	1256	1093
1.Yes	11119	10067	12087	11207	9912

## How Constructed

RwDOCTOR indicates whether the Respondent reports any doctor visit in the reference period. In Waves 1 and 2A, the reference period is 12 months; in other waves it is the period since the last interview, or the last 2 years for new interviewees. If the Respondent reports any doctor visit, RwDOCTIM is the reported number of visits.

SwDOCTOR and SwDOCTIM give this information for the Respondent's spouse or partner.

Medical care utilization variables are recoded for missing values. In Wave 1, the medical utilization variables are imputed in the original HRS data. Imputed values are recoded to missing. If the Respondent did not report any doctor visit, then RwDOCTIM is zero. RwDOCTOR is recoded as a yes/no indicator based on the number of visits reported.

Beginning in Wave 5 unfolding bracket questions are introduced for those who don't know or refuse this question. Any response of "about" to these questions assigns the value to RwDOCTIM. For example if the Respondent responds about 20, then 20 is assigned RwDOCTIM. In addition SAS special missing values indicate the resulting bracket:

- .E indicates 1-4 times
- .F indicates 6-19 times
- .G indicates 21-49 times
- .H indicates 51 or more times

- .I indicates at least once
- .J indicates 0-5 times
- .K indicates 1-19 times
- .L indicates 21 or more times

If the Respondent falls into any of these brackets except 0-5 times (.J), then RwDOCTOR is set to yes (=1). If the Respondent says no to seeing a doctor at least once, RwDOCTIM is set to zero and RwDOCTOR is set to no (=0).

In Wave 2A, the S2DOCTOR is taken from spouses' or HH-level response. For all other waves, the spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3DOCTOR is taken from the Wave 3 spouse's R3DOCTOR variable.

## Cross Wave Differences in Original HRS Data

The questions about medical service utilization vary across waves. Waves 1 and 2A questions ask about the last 12 months, while questions in subsequent waves ask about the period since the previous interview or the last 2 years.

In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2H, questions are added that ask about prescription drugs. In Wave 2A, and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

In Wave 2A, the Financial Respondent was asked the medical utilization and expenditure questions, which differs from all other waves. Questions asked only of the Financial Respondent yield HH-level data, and those asked of all Respondents yield Respondent-level data. Note that when both levels are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use HH level data to fill missing spouse/partners' information.

For doctor visits, the question asks how many times the Respondent has seen or talked to a medical doctor including emergency room or clinic visits. In Waves 1 and 2, the question text instructs the Respondent not to include overnight hospital or nursing home stays. Beginning in Wave 3, the question text only instructs the Respondent not to include any hospital stays.

Beginning in Wave 5, there are unfolding bracket questions if the Respondent doesn't know or refuses to answer the question. The amounts in this series of questions are at least once, 5, 20, and 50 times. The order presented is 20, then 5, and at least once if less than 20, or 50 if more than 20. The responses could be less than, more than, or about.

## HRS Variables Used

HRS 1992:	
V10539	B47:YR:TIMES W/ DOCT:IND
V539	B47:YR:TIMES W/ DOCT:IMP
AHEAD 1993:	
B640	E12. #TIMES R TALK TO DOCTOR LAST 12 MOS
HRS 1994:	
W420	B31.NUMBER OF DOCTOR VIS
AHEAD 1995:	
D1698	E11. DR TIMES
HRS 1996:	
E1790	E11. DR TIMES

HRS 1998:  
F2331 E11. DR TIMES

HRS 2000:  
G2603 E11. DR TIMES  
G2604 E11A. DR 20 TIMES  
G2605 E11B. DR 5 TIMES  
G2606 E11C. DR ANY TIME  
G2607 E11D. DR 50 TIMES

HRS 2002:  
HN147 # TIMES SEEN DR- PREV IW/2 YRS  
HN148 NUMBER TIMES SEEN DOCTOR 20X  
HN149 NUMBER TIMES SEEN DOCTOR 5X  
HN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
HN151 R SEEK DOC ADVICE 50X

HRS 2004:  
JN147 # TIMES SEEN DR- PREV IW/2 YRS  
JN148 NUMBER TIMES SEEN DOCTOR 20X  
JN149 NUMBER TIMES SEEN DOCTOR 5X  
JN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
JN151 R SEEK DOC ADVICE 50X

HRS 2006:  
KN147 # TIMES SEEN DR- PREV IW/2 YRS  
KN148 NUMBER TIMES SEEN DOCTOR 20X  
KN149 NUMBER TIMES SEEN DOCTOR 5X  
KN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
KN151 R SEEK DOC ADVICE 50X

HRS 2008:  
LN147 # TIMES SEEN DR- PREV IW/2 YRS  
LN148 NUMBER TIMES SEEN DOCTOR 20X  
LN149 NUMBER TIMES SEEN DOCTOR 5X  
LN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
LN151 R SEEK DOC ADVICE 50X

HRS 2010:  
MN147 # TIMES SEEN DR- PREV IW/2 YRS  
MN148 NUMBER TIMES SEEN DOCTOR 20X  
MN149 NUMBER TIMES SEEN DOCTOR 5X  
MN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
MN151 R SEEK DOC ADVICE 50X

HRS 2012:  
NN147 # TIMES SEEN DR- PREV IW/2 YRS  
NN148 NUMBER TIMES SEEN DOCTOR 20X  
NN149 NUMBER TIMES SEEN DOCTOR 5X  
NN150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
NN151 R SEEK DOC ADVICE 50X

HRS 2014:  
ON147 # TIMES SEEN DR- PREV IW/2 YRS  
ON148 NUMBER TIMES SEEN DOCTOR 20X  
ON149 NUMBER TIMES SEEN DOCTOR 5X  
ON150 HAS R SOUGHT DOC ADVICE IN PAST 2 YRS  
ON151 R SEEK DOC ADVICE 50X



<b>Medical care utilization: Home Care</b>
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Wave	Variable	Label	Type
1	R1HOMCAR	R1HOMCAR:W1 Home hlth care, prv 12 mos	Categ
2	R2HOMCAR	R2HOMCAR:W2 Home hlth care, prv 2 yrs	Categ
3	R3HOMCAR	R3HOMCAR:W3 Home hlth care, prv 2 yrs	Categ
4	R4HOMCAR	R4HOMCAR:W4 Home hlth care, prv 2 yrs	Categ
5	R5HOMCAR	R5HOMCAR:W5 Home hlth care, prv 2 yrs	Categ
6	R6HOMCAR	R6HOMCAR:W6 Home hlth care, prv 2 yrs	Categ
7	R7HOMCAR	R7HOMCAR:W7 Home hlth care, prv 2 yrs	Categ
8	R8HOMCAR	R8HOMCAR:W8 Home hlth care, prv 2 yrs	Categ
9	R9HOMCAR	R9HOMCAR:W9 Home hlth care, prv 2 yrs	Categ
10	R10HOMCAR	R10HOMCAR:W10 Home hlth care, prv 2 yrs	Categ
11	R11HOMCAR	R11HOMCAR:W11 Home hlth care, prv 2 yrs	Categ
12	R12HOMCAR	R12HOMCAR:W12 Home hlth care, prv 2 yrs	Categ
1	S1HOMCAR	S1HOMCAR:W1 Home hlth care, prv 12 mos	Categ
2	S2HOMCAR	S2HOMCAR:W2 Home hlth care, prv 2 yrs	Categ
3	S3HOMCAR	S3HOMCAR:W3 Home hlth care, prv 2 yrs	Categ
4	S4HOMCAR	S4HOMCAR:W4 Home hlth care, prv 2 yrs	Categ
5	S5HOMCAR	S5HOMCAR:W5 Home hlth care, prv 2 yrs	Categ
6	S6HOMCAR	S6HOMCAR:W6 Home hlth care, prv 2 yrs	Categ
7	S7HOMCAR	S7HOMCAR:W7 Home hlth care, prv 2 yrs	Categ
8	S8HOMCAR	S8HOMCAR:W8 Home hlth care, prv 2 yrs	Categ
9	S9HOMCAR	S9HOMCAR:W9 Home hlth care, prv 2 yrs	Categ
10	S10HOMCAR	S10HOMCAR:W10 Home hlth care, prv 2 yrs	Categ
11	S11HOMCAR	S11HOMCAR:W11 Home hlth care, prv 2 yrs	Categ
12	S12HOMCAR	S12HOMCAR:W12 Home hlth care, prv 2 yrs	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HOMCAR	12634	0.01	0.11	0.0	1.0
R2HOMCAR	19762	0.06	0.23	0.0	1.0
R3HOMCAR	17651	0.08	0.26	0.0	1.0
R4HOMCAR	20933	0.08	0.26	0.0	1.0
R5HOMCAR	19073	0.07	0.25	0.0	1.0
R6HOMCAR	17945	0.07	0.26	0.0	1.0
R7HOMCAR	19938	0.07	0.25	0.0	1.0
R8HOMCAR	18288	0.08	0.27	0.0	1.0
R9HOMCAR	17041	0.09	0.28	0.0	1.0
R10HOMCAR	21622	0.09	0.28	0.0	1.0
R11HOMCAR	20328	0.09	0.28	0.0	1.0
R12HOMCAR	18600	0.09	0.29	0.0	1.0
S1HOMCAR	9885	0.01	0.10	0.0	1.0
S2HOMCAR	13242	0.03	0.18	0.0	1.0
S3HOMCAR	11820	0.05	0.22	0.0	1.0
S4HOMCAR	13885	0.06	0.23	0.0	1.0
S5HOMCAR	12619	0.05	0.22	0.0	1.0
S6HOMCAR	11597	0.05	0.23	0.0	1.0
S7HOMCAR	12937	0.05	0.22	0.0	1.0
S8HOMCAR	11711	0.06	0.24	0.0	1.0
S9HOMCAR	10620	0.06	0.24	0.0	1.0
S10HOMCAR	13335	0.06	0.25	0.0	1.0
S11HOMCAR	12436	0.07	0.25	0.0	1.0
S12HOMCAR	10998	0.07	0.25	0.0	1.0

## Categorical Variable Codes

Value	R1HOMCAR	R2HOMCAR	R3HOMCAR	R4HOMCAR	R5HOMCAR	R6HOMCAR	R7HOMCAR
.D=DK/NA	3	2	2		5	13	9
.M=Oth missing	15	52	37	20	42	21	23
.N=In NHM			298	429	457	180	149
.R=RF		1	3	2	2	6	10
0.No	12486	18632	16325	19350	17770	16631	18577
1.Yes	148	1130	1326	1583	1303	1314	1361

Value	R8HOMCAR	R9HOMCAR	R10HOMCAR	R11HOMCAR	R12HOMCAR
.D=DK/NA	10	10	10	11	15
.M=Oth missing	18	19	267	65	55
.N=In NHM	148	142	123	148	75
.R=RF	5	5	12	2	2
0.No	16817	15553	19709	18564	16914
1.Yes	1471	1488	1913	1764	1686

Value	S1HOMCAR	S2HOMCAR	S3HOMCAR	S4HOMCAR	S5HOMCAR	S6HOMCAR	S7HOMCAR
.D=DK/NA	3				3	4	1
.M=Oth missing	12	24	13	6	12	6	5
.N=In NHM			81	87	95	29	22
.R=RF			1		1	3	7
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	406	418	537	311	220	380
0.No	9794	12807	11211	13109	11982	10964	12308
1.Yes	91	435	609	776	637	633	629

Value	S8HOMCAR	S9HOMCAR	S10HOMCAR	S11HOMCAR	S12HOMCAR
.D=DK/NA	2	1	4	3	
.M=Oth missing	3	5	152	19	16
.N=In NHM	16	18	15	30	11
.R=RF	3	2	7		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11014	9943	12476	11619	10241
1.Yes	697	677	859	817	757

## How Constructed

RwHOMCAR indicates whether the Respondent reports any home health care in the reference period. In Wave 1 and 2A the reference period is 12 months; in other waves it is the period since the last interview, or the last 2 years for new interviewees.

SwHOMCAR gives this information for the Respondent's spouse or partner.

RwHOMCAR is recoded as a yes/no indicator and for missing values. In Wave 1, the medical utilization variables are imputed in the original HRS data. Imputed values are recoded to missing. From Wave 3 forward this question is skipped if the Respondent lives in a nursing home at the time of the interview (see RwnHMLIV earlier in this section). If the question is skipped for this reason, RwHOMCAR is set to .N, the Respondent lives in a nursing home.

In Wave 2A, only the Financial Respondent was asked to answer either himself/herself, partner, or both used home health care. If the Financial Respondent answers "himself/herself" or "both," then R2HOMCAR is set to "1" for yes.

In Wave 2A, the S2HOMCAR is taken from spouses' or HH-level response. For all other waves, the spouse variables

are taken from the Wave "w" spouse's self-reported information, e.g., S3HOMCAR is taken from the Wave 3 spouse's R3HOMCAR variable.

## Cross Wave Differences in Original HRS Data

The questions about medical service utilization vary across waves. Wave 1 and 2A questions ask about the last 12 months, while questions in subsequent waves ask about the period since the previous interview or the last 2 years.

In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2, questions are added that ask about prescription drugs. In Wave 2A and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

In Wave 2A, the Financial Respondent was asked the medical utilization and expenditure questions, which differs from all other waves. Questions asked only of the Financial Respondent yield HH-level data, and those asked of all Respondents yield Respondent-level data. Note that when both levels are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use HH level data to fill missing spouse/partners' information.

For home health care, the questions in Waves 1 and 2H ask if the Respondent required any professional nursing care in her/his own home, and on how many days s/he had home nursing care. In Wave 2A and from Wave 3 on, the question asks if any medically-trained person has come to the Respondent's home to help her/him. In Wave 2A, only the Financial Respondent was asked to answer either himself/herself, partner or both used home health care. Beginning Wave 3, the question is skipped if the Respondent is in a nursing home. There is no follow-up question about the number of days.

## HRS Variables Used

HRS 1992:	
V10541	B49:PST YR:PRO NURS :IND
V541	B49:PST YR:PRO NURS :IMP
AHEAD 1993:	
B701	E22. R/SP IN-HOME MED SERV NOT COVERED
HRS 1994:	
W424	B33.PROFESSIONAL NURSING
AHEAD 1995:	
D1760	E22.IN-HOME SERV
D240	CS11.R-WHERE LIVE
HRS 1996:	
E1827	E22.IN-HOME SERV
E240	CS11.R-WHERE LIVE
HRS 1998:	
F2357	E22.IN-HOME SERV
F517	CS11.R IN NURSING HOME
HRS 2000:	
G2634	E22.IN-HOME SERV
G558	CS11.R IN NURSING HOME
HRS 2002:	
HA028	R IN NURSING HOME
HN189	USED HOME HEALTH SVC- PREV IW/2 YRS
HRS 2004:	
JA028	R IN NURSING HOME
JN189	USED HOME HEALTH SVC- PREV IW/2 YRS

HRS 2006:  
KA028 R IN NURSING HOME  
KN189 USED HOME HEALTH SVC- PREV IW/2 YRS

HRS 2008:  
LA028 R IN NURSING HOME  
LN189 USED HOME HEALTH SVC- PREV IW/2 YRS

HRS 2010:  
MA028 R IN NURSING HOME  
MN189 USED HOME HEALTH SVC- PREV IW/2 YRS

HRS 2012:  
NA028 R IN NURSING HOME  
NN189 USED HOME HEALTH SVC- PREV IW/2 YRS

HRS 2014:  
OA028 R IN NURSING HOME  
ON189 USED HOME HEALTH SVC- PREV IW/2 YRS

<b>Medical care utilization: Other Medical Care Utilization</b>
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Wave	Variable	Label	Type
2	R2DRUGS	R2DRUGS:W2 Reg take Rx, prv 1-yr (A)	Categ
3	R3DRUGS	R3DRUGS:W3 Reg take Rx, Prv 2 yrs	Categ
4	R4DRUGS	R4DRUGS:W4 Reg take Rx, Prv 2 yrs	Categ
5	R5DRUGS	R5DRUGS:W5 Reg take Rx, Prv 2 yrs	Categ
6	R6DRUGS	R6DRUGS:W6 Reg take Rx, Prv 2 yrs	Categ
7	R7DRUGS	R7DRUGS:W7 Reg take Rx, Prv 2 yrs	Categ
8	R8DRUGS	R8DRUGS:W8 Reg take Rx, Prv 2 yrs	Categ
9	R9DRUGS	R9DRUGS:W9 Reg take Rx, Prv 2 yrs	Categ
10	R10DRUGS	R10DRUGS:W10 Reg take Rx, Prv 2 yrs	Categ
11	R11DRUGS	R11DRUGS:W11 Reg take Rx, Prv 2 yrs	Categ
12	R12DRUGS	R12DRUGS:W12 Reg take Rx, Prv 2 yrs	Categ
2	S2DRUGS	S2DRUGS:W2 Reg take Rx, prv 1-yr (A)	Categ
3	S3DRUGS	S3DRUGS:W3 Reg take Rx, Prv 2 yrs	Categ
4	S4DRUGS	S4DRUGS:W4 Reg take Rx, Prv 2 yrs	Categ
5	S5DRUGS	S5DRUGS:W5 Reg take Rx, Prv 2 yrs	Categ
6	S6DRUGS	S6DRUGS:W6 Reg take Rx, Prv 2 yrs	Categ
7	S7DRUGS	S7DRUGS:W7 Reg take Rx, Prv 2 yrs	Categ
8	S8DRUGS	S8DRUGS:W8 Reg take Rx, Prv 2 yrs	Categ
9	S9DRUGS	S9DRUGS:W9 Reg take Rx, Prv 2 yrs	Categ
10	S10DRUGS	S10DRUGS:W10 Reg take Rx, Prv 2 yrs	Categ
11	S11DRUGS	S11DRUGS:W11 Reg take Rx, Prv 2 yrs	Categ
12	S12DRUGS	S12DRUGS:W12 Reg take Rx, Prv 2 yrs	Categ
2	R2OUTPT	R2OUTPT:W2 OutpatSurg, prv 1-,2-yr (A,H)	Categ
3	R3OUTPT	R3OUTPT:W3 Outpatient surgry, prv 2 yrs	Categ
4	R4OUTPT	R4OUTPT:W4 Outpatient surgry, prv 2 yrs	Categ
5	R5OUTPT	R5OUTPT:W5 Outpatient surgry, prv 2 yrs	Categ
6	R6OUTPT	R6OUTPT:W6 Outpatient surgry, prv 2 yrs	Categ
7	R7OUTPT	R7OUTPT:W7 Outpatient surgry, prv 2 yrs	Categ
8	R8OUTPT	R8OUTPT:W8 Outpatient surgry, prv 2 yrs	Categ
9	R9OUTPT	R9OUTPT:W9 Outpatient surgry, prv 2 yrs	Categ
10	R10OUTPT	R10OUTPT:W10 Outpatient surgry, prv 2 yrs	Categ
11	R11OUTPT	R11OUTPT:W11 Outpatient surgry, prv 2 yrs	Categ
12	R12OUTPT	R12OUTPT:W12 Outpatient surgry, prv 2 yrs	Categ
2	S2OUTPT	S2OUTPT:W2 OutpatSurg, prv 1-,2-yr (A,H)	Categ
3	S3OUTPT	S3OUTPT:W3 Outpatient surgry, prv 2 yrs	Categ
4	S4OUTPT	S4OUTPT:W4 Outpatient surgry, prv 2 yrs	Categ
5	S5OUTPT	S5OUTPT:W5 Outpatient surgry, prv 2 yrs	Categ
6	S6OUTPT	S6OUTPT:W6 Outpatient surgry, prv 2 yrs	Categ
7	S7OUTPT	S7OUTPT:W7 Outpatient surgry, prv 2 yrs	Categ
8	S8OUTPT	S8OUTPT:W8 Outpatient surgry, prv 2 yrs	Categ
9	S9OUTPT	S9OUTPT:W9 Outpatient surgry, prv 2 yrs	Categ
10	S10OUTPT	S10OUTPT:W10 Outpatient surgry, prv 2 yrs	Categ
11	S11OUTPT	S11OUTPT:W11 Outpatient surgry, prv 2 yrs	Categ
12	S12OUTPT	S12OUTPT:W12 Outpatient surgry, prv 2 yrs	Categ
2	R2DENTST	R2DENTST:W2 DentVisit, prv 1-,2-yr (A,H)	Categ
3	R3DENTST	R3DENTST:W3 Dental visit, prv 2 yrs	Categ
4	R4DENTST	R4DENTST:W4 Dental visit, prv 2 yrs	Categ
5	R5DENTST	R5DENTST:W5 Dental visit, prv 2 yrs	Categ
6	R6DENTST	R6DENTST:W6 Dental visit, prv 2 yrs	Categ
7	R7DENTST	R7DENTST:W7 Dental visit, prv 2 yrs	Categ
8	R8DENTST	R8DENTST:W8 Dental visit, prv 2 yrs	Categ
9	R9DENTST	R9DENTST:W9 Dental visit, prv 2 yrs	Categ
10	R10DENTST	R10DENTST:W10 Dental visit, prv 2 yrs	Categ
11	R11DENTST	R11DENTST:W11 Dental visit, prv 2 yrs	Categ
12	R12DENTST	R12DENTST:W12 Dental visit, prv 2 yrs	Categ
2	S2DENTST	S2DENTST:W2 DentVisit, prv 1-,2-yr (A,H)	Categ
3	S3DENTST	S3DENTST:W3 Dental visit, prv 2 yrs	Categ
4	S4DENTST	S4DENTST:W4 Dental visit, prv 2 yrs	Categ
5	S5DENTST	S5DENTST:W5 Dental visit, prv 2 yrs	Categ
6	S6DENTST	S6DENTST:W6 Dental visit, prv 2 yrs	Categ
7	S7DENTST	S7DENTST:W7 Dental visit, prv 2 yrs	Categ

8	S8DENTST	S8DENTST:W8 Dental visit, prv 2 yrs	Categ
9	S9DENTST	S9DENTST:W9 Dental visit, prv 2 yrs	Categ
10	S10DENTST	S10DENTST:W10 Dental visit, prv 2 yrs	Categ
11	S11DENTST	S11DENTST:W11 Dental visit, prv 2 yrs	Categ
12	S12DENTST	S12DENTST:W12 Dental visit, prv 2 yrs	Categ
2	R2SPCFAC	R2SPCFAC:W2 SpcHlthFac, prv 1-,2-yr (A,H)	Categ
3	R3SPCFAC	R3SPCFAC:W3 Spec hlth facility, prv 2 yrs	Categ
4	R4SPCFAC	R4SPCFAC:W4 Spec hlth facility, prv 2 yrs	Categ
5	R5SPCFAC	R5SPCFAC:W5 Spec hlth facility, prv 2 yrs	Categ
6	R6SPCFAC	R6SPCFAC:W6 Spec hlth facility, prv 2 yrs	Categ
7	R7SPCFAC	R7SPCFAC:W7 Spec hlth facility, prv 2 yrs	Categ
8	R8SPCFAC	R8SPCFAC:W8 Spec hlth facility, prv 2 yrs	Categ
9	R9SPCFAC	R9SPCFAC:W9 Spec hlth facility, prv 2 yrs	Categ
10	R10SPCFAC	R10SPCFAC:W10 Spec hlth facility, prv 2 yrs	Categ
11	R11SPCFAC	R11SPCFAC:W11 Spec hlth facility, prv 2 yrs	Categ
12	R12SPCFAC	R12SPCFAC:W12 Spec hlth facility, prv 2 yrs	Categ
2	S2SPCFAC	S2SPCFAC:W2 SpcHlthFac, prv 1-,2-yr (A,H)	Categ
3	S3SPCFAC	S3SPCFAC:W3 Spec hlth facility, prv 2 yrs	Categ
4	S4SPCFAC	S4SPCFAC:W4 Spec hlth facility, prv 2 yrs	Categ
5	S5SPCFAC	S5SPCFAC:W5 Spec hlth facility, prv 2 yrs	Categ
6	S6SPCFAC	S6SPCFAC:W6 Spec hlth facility, prv 2 yrs	Categ
7	S7SPCFAC	S7SPCFAC:W7 Spec hlth facility, prv 2 yrs	Categ
8	S8SPCFAC	S8SPCFAC:W8 Spec hlth facility, prv 2 yrs	Categ
9	S9SPCFAC	S9SPCFAC:W9 Spec hlth facility, prv 2 yrs	Categ
10	S10SPCFAC	S10SPCFAC:W10 Spec hlth facility, prv 2 yrs	Categ
11	S11SPCFAC	S11SPCFAC:W11 Spec hlth facility, prv 2 yrs	Categ
12	S12SPCFAC	S12SPCFAC:W12 Spec hlth facility, prv 2 yrs	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2DRUGS	19792	0.70	0.46	0.0	1.0
R3DRUGS	17952	0.69	0.46	0.0	1.0
R4DRUGS	21351	0.73	0.44	0.0	1.0
R5DRUGS	19547	0.78	0.42	0.0	1.0
R6DRUGS	18147	0.81	0.39	0.0	1.0
R7DRUGS	20092	0.79	0.41	0.0	1.0
R8DRUGS	18451	0.82	0.38	0.0	1.0
R9DRUGS	17199	0.84	0.37	0.0	1.0
R10DRUGS	21874	0.80	0.40	0.0	1.0
R11DRUGS	20512	0.81	0.39	0.0	1.0
R12DRUGS	18715	0.82	0.38	0.0	1.0
S2DRUGS	13274	0.67	0.47	0.0	1.0
S3DRUGS	11905	0.67	0.47	0.0	1.0
S4DRUGS	13967	0.71	0.45	0.0	1.0
S5DRUGS	12722	0.76	0.42	0.0	1.0
S6DRUGS	11634	0.80	0.40	0.0	1.0
S7DRUGS	12957	0.78	0.42	0.0	1.0
S8DRUGS	11727	0.80	0.40	0.0	1.0
S9DRUGS	10639	0.83	0.38	0.0	1.0
S10DRUGS	13417	0.78	0.41	0.0	1.0
S11DRUGS	12474	0.80	0.40	0.0	1.0
S12DRUGS	11019	0.81	0.40	0.0	1.0
R2OUTPT	8217	0.14	0.34	0.0	1.0
R3OUTPT	17939	0.17	0.38	0.0	1.0
R4OUTPT	21349	0.19	0.39	0.0	1.0
R5OUTPT	19542	0.18	0.38	0.0	1.0

R6OUTPT	18120	0.20	0.40	0.0	1.0
R7OUTPT	20076	0.21	0.40	0.0	1.0
R8OUTPT	18425	0.21	0.41	0.0	1.0
R9OUTPT	17155	0.21	0.41	0.0	1.0
R10OUTPT	21702	0.21	0.41	0.0	1.0
R11OUTPT	20450	0.18	0.38	0.0	1.0
R12OUTPT	18664	0.18	0.39	0.0	1.0
S2OUTPT	4548	0.14	0.35	0.0	1.0
S3OUTPT	11895	0.18	0.38	0.0	1.0
S4OUTPT	13964	0.19	0.39	0.0	1.0
S5OUTPT	12718	0.19	0.39	0.0	1.0
S6OUTPT	11618	0.21	0.41	0.0	1.0
S7OUTPT	12949	0.21	0.41	0.0	1.0
S8OUTPT	11716	0.22	0.41	0.0	1.0
S9OUTPT	10617	0.21	0.41	0.0	1.0
S10OUTPT	13329	0.21	0.41	0.0	1.0
S11OUTPT	12451	0.19	0.39	0.0	1.0
S12OUTPT	10993	0.19	0.39	0.0	1.0
R2DENTST	8216	0.45	0.50	0.0	1.0
R3DENTST	17941	0.60	0.49	0.0	1.0
R4DENTST	21340	0.62	0.49	0.0	1.0
R5DENTST	19532	0.61	0.49	0.0	1.0
R6DENTST	18101	0.59	0.49	0.0	1.0
R7DENTST	20064	0.63	0.48	0.0	1.0
R8DENTST	18411	0.63	0.48	0.0	1.0
R9DENTST	17164	0.63	0.48	0.0	1.0
R10DENTST	21725	0.63	0.48	0.0	1.0
R11DENTST	20444	0.61	0.49	0.0	1.0
R12DENTST	18661	0.61	0.49	0.0	1.0
S2DENTST	4546	0.50	0.50	0.0	1.0
S3DENTST	11895	0.65	0.48	0.0	1.0
S4DENTST	13963	0.67	0.47	0.0	1.0
S5DENTST	12714	0.67	0.47	0.0	1.0
S6DENTST	11615	0.65	0.48	0.0	1.0
S7DENTST	12949	0.68	0.47	0.0	1.0
S8DENTST	11716	0.68	0.47	0.0	1.0
S9DENTST	10624	0.68	0.47	0.0	1.0
S10DENTST	13342	0.67	0.47	0.0	1.0
S11DENTST	12454	0.65	0.48	0.0	1.0
S12DENTST	11000	0.65	0.48	0.0	1.0
R2SPCFAC	8168	0.08	0.27	0.0	1.0
R3SPCFAC	17647	0.06	0.24	0.0	1.0
R4SPCFAC	20932	0.07	0.26	0.0	1.0
R5SPCFAC	19076	0.07	0.25	0.0	1.0
R6SPCFAC	18126	0.08	0.27	0.0	1.0
R7SPCFAC	20084	0.08	0.28	0.0	1.0
R8SPCFAC	18424	0.09	0.29	0.0	1.0
R9SPCFAC	17169	0.09	0.29	0.0	1.0
R10SPCFAC	21728	0.17	0.37	0.0	1.0
R11SPCFAC	20465	0.15	0.36	0.0	1.0
R12SPCFAC	18661	0.16	0.37	0.0	1.0
S2SPCFAC	4503	0.04	0.21	0.0	1.0
S3SPCFAC	11817	0.05	0.21	0.0	1.0
S4SPCFAC	13885	0.06	0.24	0.0	1.0

S5SPCFAC	12622	0.05	0.22	0.0	1.0
S6SPCFAC	11623	0.07	0.25	0.0	1.0
S7SPCFAC	12960	0.07	0.25	0.0	1.0
S8SPCFAC	11726	0.08	0.27	0.0	1.0
S9SPCFAC	10632	0.08	0.27	0.0	1.0
S10SPCFAC	13344	0.15	0.36	0.0	1.0
S11SPCFAC	12462	0.14	0.34	0.0	1.0
S12SPCFAC	10996	0.14	0.35	0.0	1.0

## Categorical Variable Codes

Value	R2DRUGS	R3DRUGS	R4DRUGS	R5DRUGS	R6DRUGS	R7DRUGS
.D=DK/NA	19	5	9	7	5	4
.M=Oth missing	4	32	21	22	7	22
.R=RF	2	2	3	3	6	11
0.No	5970	5561	5801	4378	3459	4196
1.Yes	13822	12391	15550	15169	14688	15896

Value	R8DRUGS	R9DRUGS	R10DRUGS	R11DRUGS	R12DRUGS
.D=DK/NA	4	4	2	3	7
.M=Oth missing	9	8	147	34	23
.R=RF	5	6	11	5	2
0.No	3330	2766	4473	3865	3350
1.Yes	15121	14433	17401	16647	15365

Value	S2DRUGS	S3DRUGS	S4DRUGS	S5DRUGS	S6DRUGS	S7DRUGS
.D=DK/NA	9		4	2		1
.M=Oth missing	4	10	6	5	2	5
.R=RF	1		1	1	3	9
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
0.No	4418	3919	4021	3003	2365	2903
1.Yes	8856	7986	9946	9719	9269	10054

Value	S8DRUGS	S9DRUGS	S10DRUGS	S11DRUGS	S12DRUGS
.D=DK/NA	1	1	1	1	1
.M=Oth missing	3	1	90	11	6
.R=RF	4	5	5	2	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	2295	1849	2934	2529	2135
1.Yes	9432	8790	10483	9945	8884



Value	R2OUTPT	R3OUTPT	R4OUTPT	R5OUTPT	R6OUTPT	R7OUTPT
.D=DK/NA	4	18	11	11	23	23
.M=Oth missing	1	32	20	22	15	21
.Q=Not asked this wv	11420					
.R=RF		2	4	4	7	9
0.No	7086	14843	17334	16044	14451	15946
1.Yes	1131	3096	4015	3498	3669	4130

Value	R8OUTPT	R9OUTPT	R10OUTPT	R11OUTPT	R12OUTPT
.D=DK/NA	24	39	56	35	27
.M=Oth missing	17	17	264	64	53
.R=RF	3	6	12	5	3
0.No	14490	13586	17160	16770	15240
1.Yes	3935	3569	4542	3680	3424

Value	S2OUTPT	S3OUTPT	S4OUTPT	S5OUTPT	S6OUTPT	S7OUTPT
.D=DK/NA		9	8	5	12	12
.M=Oth missing	1	11	6	5	5	4
.Q=Not asked this wv	9123					
.R=RF				2	4	7
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
0.No	3893	9790	11287	10348	9175	10200
1.Yes	655	2105	2677	2370	2443	2749

Value	S8OUTPT	S9OUTPT	S10OUTPT	S11OUTPT	S12OUTPT
.D=DK/NA	14	21	25	14	17
.M=Oth missing	3	4	150	19	16
.R=RF	2	4	9	4	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9153	8362	10469	10118	8895
1.Yes	2563	2255	2860	2333	2098

Value	R2DENTST	R3DENTST	R4DENTST	R5DENTST	R6DENTST	R7DENTST
.D=DK/NA	5	17	22	23	39	35
.M=Oth missing	1	32	20	22	15	21
.Q=Not asked this wv	11420					
.R=RF		1	2	2	10	9
0.No	4518	7184	8134	7583	7343	7497
1.Yes	3698	10757	13206	11949	10758	12567

Value	R8DENTST	R9DENTST	R10DENTST	R11DENTST	R12DENTST
.D=DK/NA	35	28	27	39	25
.M=Oth missing	17	19	264	64	54
.R=RF	6	6	18	7	7
0.No	6890	6428	7983	8057	7348
1.Yes	11521	10736	13742	12387	11313

Value	S2DENTST	S3DENTST	S4DENTST	S5DENTST	S6DENTST	S7DENTST
.D=DK/NA	2	10	9	10	13	14
.M=Oth missing	1	10	6	5	5	4
.Q=Not asked this wv	9123					
.R=RF				1	6	5
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
0.No	2290	4173	4623	4259	4085	4164
1.Yes	2256	7722	9340	8455	7530	8785

Value	S8DENTST	S9DENTST	S10DENTST	S11DENTST	S12DENTST
.D=DK/NA	14	14	10	12	7
.M=Oth missing	3	5	150	19	16
.R=RF	2	3	11	3	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	3805	3426	4350	4364	3804
1.Yes	7911	7198	8992	8090	7196

Value	R2SPCFAC	R3SPCFAC	R4SPCFAC	R5SPCFAC	R6SPCFAC	R7SPCFAC
.D=DK/NA	1	6		3	15	14
.M=Oth missing	52	335	449	499	15	22
.Q=Not asked this wv	11420					
.R=RF	1	3	3	1	9	9
0.No	7520	16535	19449	17788	16706	18391
1.Yes	648	1112	1483	1288	1420	1693

Value	R8SPCFAC	R9SPCFAC	R10SPCFAC	R11SPCFAC	R12SPCFAC
.D=DK/NA	19	20	25	20	25
.M=Oth missing	18	19	266	65	55
.R=RF	8	9	15	4	6
0.No	16674	15546	18061	17348	15631
1.Yes	1750	1623	3667	3117	3030

Value	S2SPCFAC	S3SPCFAC	S4SPCFAC	S5SPCFAC	S6SPCFAC	S7SPCFAC
.D=DK/NA		2		1	7	3
.M=Oth missing	24	95	93	107	5	5
.Q=Not asked this wv	9123					
.R=RF		1			4	4
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	22	418	537	311	220	380
0.No	4304	11250	13067	11958	10850	12065
1.Yes	199	567	818	664	773	895

Value	S8SPCFAC	S9SPCFAC	S10SPCFAC	S11SPCFAC	S12SPCFAC
.D=DK/NA	3	5	11	5	12
.M=Oth missing	3	5	150	19	16
.R=RF	3	4	8	2	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10804	9804	11286	10771	9455
1.Yes	922	828	2058	1691	1541

## How Constructed

RwDRUGS, RwOUTPT, RwDENTST, and RwSPCFAC indicate whether the Respondent reports regular use of prescription drugs, outpatient surgery, dental visits, or use of special facilities or services during the reference period. In Wave 2A the reference period is 12 months, and in subsequent waves it is the period since the last interview, or the last 2 years for new interviewees.

SwDRUGS, SwOUTPT, SwDENTST, and SwSPCFAC give this information for the Respondent's spouse or partner.

In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2H, questions are added that ask about prescription drugs. In Wave 2A and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

These medical care utilization variables are recoded as yes/no indicators and for missing values.

In Wave 2A, the question about outpatient surgery, dental visits, or regular use of prescription drugs was asked of financial and non-financial Respondents. When information is available for both Respondent types, the Financial Respondent's HH-level information may not agree with the information given by individual Respondents, in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible, we use HH level data to fill missing spouse/partners' information. Only the Financial Respondent was asked to answer whether himself/herself, partner or both have any use of special facilities or services. If the Financial Respondent answers "himself/herself" or "both," then R2SPCFAC set to 1 for yes.

In Wave 2A, the S2DRUGS, S2OUTPT, S2DENTST is taken from spouse's or HH-level response. For all other waves, the spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3OUTPT is taken from the Wave 3 spouse's R3OUTPT variable.

## Cross Wave Differences in Original HRS Data

The questions about medical service utilization vary across waves. Wave 1 and 2A questions ask about the last 12 months, while questions in other waves ask about the period since the previous interview or the last 2 years.

In Wave 1, questions ask about hospital and nursing home stays, doctor visits, and home health care. In Wave 2H, questions are added that ask about prescription drugs. In Wave 2A and from Wave 3 forward, questions are added that ask about outpatient surgery, dentist, and special facilities or services.

In Wave 2A, the Financial Respondent was asked the medical utilization and expenditure questions, which differs from all other waves. Questions asked only of the Financial Respondent yield HH-level data, and those asked of all Respondents yield Respondent-level data. Note that when both levels are available the Financial Respondent's HH-level information may not agree with the information given by individual Respondents in all cases. If there is any disagreement, the Respondent's own report is used. Where necessary and possible for utilization variables, we use HH level data to fill missing spouse/partners' information.

For prescription drugs, the Wave 2H question asks if the Respondent regularly purchases medications prescribed for her/him by a doctor. In Wave 2A and from Wave 3 on, the question asks if the Respondent regularly takes prescription medications. From Wave 4 forward, if the Respondent reported taking drugs when asked about health conditions, the question is not asked, but the variable is filled indicating the use of prescription drugs (Medications Known - Assigned).

From Wave 2A and Wave 3 on, questions are added which ask if the Respondent has seen a dentist for dental care

including dentures; had outpatient surgery, not counting hospital stays; and used any special facility or service not already asked about, such as an adult care center, a social worker, an outpatient rehabilitation program, or transportation or meals for the elderly or disabled. These questions are not asked in Waves 1 and 2H. In Wave 2A, only the Financial Respondent was asked to answer either himself/herself, partner, or both used special facilities or services.

## HRS Variables Used

AHEAD 1993:

B654R	E14. R OUTPATIENT SURGERY LAST 12 MOS
B669R	E17. R DENTIST LAST 12 MOS
B685R	E20. R TAKEN MEDS LAST 12 MOS
B715	E24. R/SP USE OTHER SERVICE LAST 12 MOS

HRS 1994:

W433	B33-1a.PURCHASE MEDICATI
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AHEAD 1995:

D1713	E14. OUTPATIENT SURGERY
D1728	E17. DENTIST
D1744	E20. DRUGS
D1774	E24.R USE SERVICE

HRS 1996:

E1795	E14. OUTPATIENT SURGERY-YR
E1800	E17.DENTIST-YR
E1811	E20. DRUGS-YR
E1831	E24.R USE SERVICE

HRS 1998:

F2333	E14. OUTPATIENT SURGERY-YR
F2335	E17.DENTIST-YR
F2345	E20. DRUGS-YR
F2361	E24.R USE SERVICE

HRS 2000:

G2610	E14. OUTPATIENT SURGERY-YR
G2612	E17.DENTIST-YR
G2622	E20. DRUGS-YR
G2638	E24.R USE SERVICE

HRS 2002:

HN134	OUTPATIENT SURGERY- PREV IW/2 YRS
HN164	SEEN DENTIST SINCE PREV IW/2YRS
HN175	TAKE PRESCRIPTION DRUGS REGULARLY
HN202	USED OTHER HEALTH SVC- PREV IW/2 YRS

HRS 2004:

JN134	OUTPATIENT SURGERY- PREV IW/2 YRS
JN164	SEEN DENTIST SINCE PREV IW/2YRS
JN175	TAKE PRESCRIPTION DRUGS REGULARLY
JN202	USED OTHER HEALTH SVC- PREV IW/2 YRS

HRS 2006:

KN134	OUTPATIENT SURGERY- PREV IW/2 YRS
KN164	SEEN DENTIST SINCE PREV IW/2YRS
KN175	TAKE RX DRUGS REGULARLY
KN202	USED OTHER HEALTH SVC- PREV IW/2 YRS

HRS 2008:

LN134	OUTPATIENT SURGERY- PREV IW/2 YRS
LN164	SEEN DENTIST SINCE PREV IW/2YRS
LN175	TAKE RX DRUGS REGULARLY
LN202	USED OTHER HEALTH SVC- PREV IW/2 YRS

HRS 2010:

MN134	OUTPATIENT SURGERY- PREV IW/2 YRS
MN164	SEEN DENTIST SINCE PREV IW/2YRS

MN175	TAKE RX DRUGS REGULARLY
MN202	USED OTHER HEALTH SVC- PREV IW/2 YRS
HRS 2012:	
NN134	OUTPATIENT SURGERY- PREV IW/2 YRS
NN164	SEEN DENTIST SINCE PREV IW/2YRS
NN175	TAKE RX DRUGS REGULARLY
NN202	USED OTHER HEALTH SVC- PREV IW/2 YRS
HRS 2014:	
ON134	OUTPATIENT SURGERY- PREV IW/2 YRS
ON164	SEEN DENTIST SINCE PREV IW/2YRS
ON175	TAKE RX DRUGS REGULARLY
ON202	USED OTHER HEALTH SVC- PREV IW/2 YRS

### Medical expenditures: Out of Pocket and Total

Wave	Variable	Label	Type
2	H2OOPMD	H2OOPMD:W2 Mexp Amt:HH Out of pkt med exp, prv 12 mos	Cont
2	R2OOPMD	R2OOPMD:W2 Mexp Amt:Out of pkt med exp, prv 12 mos	Cont
3	R3OOPMD	R3OOPMD:W3 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
4	R4OOPMD	R4OOPMD:W4 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
5	R5OOPMD	R5OOPMD:W5 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
6	R6OOPMD	R6OOPMD:W6 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
7	R7OOPMD	R7OOPMD:W7 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
8	R8OOPMD	R8OOPMD:W8 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
9	R9OOPMD	R9OOPMD:W9 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
10	R10OOPMD	R10OOPMD:W10 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
11	R11OOPMD	R11OOPMD:W11 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
12	R12OOPMD	R12OOPMD:W12 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
2	S2OOPMD	S2OOPMD:W2 Mexp Amt:Out of pkt med exp, prv 12 mos	Cont
3	S3OOPMD	S3OOPMD:W3 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
4	S4OOPMD	S4OOPMD:W4 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
5	S5OOPMD	S5OOPMD:W5 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
6	S6OOPMD	S6OOPMD:W6 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
7	S7OOPMD	S7OOPMD:W7 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
8	S8OOPMD	S8OOPMD:W8 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
9	S9OOPMD	S9OOPMD:W9 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
10	S10OOPMD	S10OOPMD:W10 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
11	S11OOPMD	S11OOPMD:W11 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
12	S12OOPMD	S12OOPMD:W12 Mexp Amt:Out of pkt med exp, prv 2 yrs	Cont
2	H2OOPMDF	H2OOPMDF:W2 Mexp Flag:HH Out of pkt imputed	Categ
2	R2OOPMDF	R2OOPMDF:W2 Mexp Flag:Out of pkt imputed	Categ
3	R3OOPMDF	R3OOPMDF:W3 Mexp Flag:Out of pkt imputed	Categ
4	R4OOPMDF	R4OOPMDF:W4 Mexp Flag:Out of pkt imputed	Categ
5	R5OOPMDF	R5OOPMDF:W5 Mexp Flag:Out of pkt imputed	Categ
6	R6OOPMDF	R6OOPMDF:W6 Mexp Flag:Out of pkt imputed	Categ
7	R7OOPMDF	R7OOPMDF:W7 Mexp Flag:Out of pkt imputed	Categ
8	R8OOPMDF	R8OOPMDF:W8 Mexp Flag:Out of pkt imputed	Categ
9	R9OOPMDF	R9OOPMDF:W9 Mexp Flag:Out of pkt imputed	Categ
10	R10OOPMDF	R10OOPMDF:W10 Mexp Flag:Out of pkt imputed	Categ
11	R11OOPMDF	R11OOPMDF:W11 Mexp Flag:Out of pkt imputed	Categ
12	R12OOPMDF	R12OOPMDF:W12 Mexp Flag:Out of pkt imputed	Categ
2	S2OOPMDF	S2OOPMDF:W2 Mexp Flag:Out of pkt imputed	Categ
3	S3OOPMDF	S3OOPMDF:W3 Mexp Flag:Out of pkt imputed	Categ
4	S4OOPMDF	S4OOPMDF:W4 Mexp Flag:Out of pkt imputed	Categ
5	S5OOPMDF	S5OOPMDF:W5 Mexp Flag:Out of pkt imputed	Categ
6	S6OOPMDF	S6OOPMDF:W6 Mexp Flag:Out of pkt imputed	Categ
7	S7OOPMDF	S7OOPMDF:W7 Mexp Flag:Out of pkt imputed	Categ
8	S8OOPMDF	S8OOPMDF:W8 Mexp Flag:Out of pkt imputed	Categ
9	S9OOPMDF	S9OOPMDF:W9 Mexp Flag:Out of pkt imputed	Categ
10	S10OOPMDF	S10OOPMDF:W10 Mexp Flag:Out of pkt imputed	Categ
11	S11OOPMDF	S11OOPMDF:W11 Mexp Flag:Out of pkt imputed	Categ
12	S12OOPMDF	S12OOPMDF:W12 Mexp Flag:Out of pkt imputed	Categ
2	H2OOPMA	H2OOPMA:W2 Mexp Amt:HH Out of pkt med exp for all,prv 12 mos	Cont
2	H2OOPMAF	H2OOPMAF:W2 Mexp Flag:HH Out of pkt imputed for all	Categ
10	R10OOPMDO	R10OOPMDO:W10 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
11	R11OOPMDO	R11OOPMDO:W11 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
12	R12OOPMDO	R12OOPMDO:W12 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
10	S10OOPMDO	S10OOPMDO:W10 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
11	S11OOPMDO	S11OOPMDO:W11 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
12	S12OOPMDO	S12OOPMDO:W12 Mexp Amt:Out of pkt med exp w oth, prv 2 yrs	Cont
10	R10OOPMDOF	R10OOPMDOF:W10 Mexp Flag:Out of pkt w oth imputed	Categ
11	R11OOPMDOF	R11OOPMDOF:W11 Mexp Flag:Out of pkt w oth imputed	Categ

12	R12OOPMDOF	R12OOPMDOF:W12 Mexp Flag:Out of pkt w oth imputed	Categ
10	S10OOPMDOF	S10OOPMDOF:W10 Mexp Flag:Out of pkt w oth imputed	Categ
11	S11OOPMDOF	S11OOPMDOF:W11 Mexp Flag:Out of pkt w oth imputed	Categ
12	S12OOPMDOF	S12OOPMDOF:W12 Mexp Flag:Out of pkt w oth imputed	Categ
3	R3TOTMD	R3TOTMD:W3 Total med expenses, prv 2 yrs	Cont
3	S3TOTMD	S3TOTMD:W3 Total med expenses, prv 2 yrs	Cont
3	R3TOTMDF	R3TOTMDF:W3 Total med imputed	Categ
3	S3TOTMDF	S3TOTMDF:W3 Total med imputed	Categ
3	R3TOTMBI	R3TOTMBI:W3 Imputed Tot Med Exp Bkt	Categ
4	R4TOTMBI	R4TOTMBI:W4 Imputed Tot Med Exp Bkt	Categ
5	R5TOTMBI	R5TOTMBI:W5 Imputed Tot Med Exp Bkt	Categ
6	R6TOTMBI	R6TOTMBI:W6 Imputed Tot Med Exp Bkt	Categ
3	S3TOTMBI	S3TOTMBI:W3 Imputed Tot Med Exp Bkt	Categ
4	S4TOTMBI	S4TOTMBI:W4 Imputed Tot Med Exp Bkt	Categ
5	S5TOTMBI	S5TOTMBI:W5 Imputed Tot Med Exp Bkt	Categ
6	S6TOTMBI	S6TOTMBI:W6 Imputed Tot Med Exp Bkt	Categ
3	R3TOTMBF	R3TOTMBF:W3 Tot Med Exp Bkt, ImpFlag	Categ
4	R4TOTMBF	R4TOTMBF:W4 Tot Med Exp Bkt, ImpFlag	Categ
5	R5TOTMBF	R5TOTMBF:W5 Tot Med Exp Bkt, ImpFlag	Categ
6	R6TOTMBF	R6TOTMBF:W6 Tot Med Exp Bkt, ImpFlag	Categ
3	S3TOTMBF	S3TOTMBF:W3 Tot Med Exp Bkt, ImpFlag	Categ
4	S4TOTMBF	S4TOTMBF:W4 Tot Med Exp Bkt, ImpFlag	Categ
5	S5TOTMBF	S5TOTMBF:W5 Tot Med Exp Bkt, ImpFlag	Categ
6	S6TOTMBF	S6TOTMBF:W6 Tot Med Exp Bkt, ImpFlag	Categ
8	R8PARTD	R8PARTD:W8 R Medicare Part D status	Categ
8	S8PARTD	S8PARTD:W8 S Medicare Part D status	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H2OOPMD	8222	970.05	2683.27	0.0	65438.5
R2OOPMD	8222	619.58	1901.79	0.0	65438.5
R3OOPMD	17991	2466.64	14770.73	0.0	1732075.4
R4OOPMD	21384	2266.70	6937.24	0.0	263768.1
R5OOPMD	19579	2510.67	7213.67	0.0	230800.0
R6OOPMD	18165	3870.86	14923.82	0.0	1206575.0
R7OOPMD	20129	4540.51	17218.12	0.0	840000.0
R8OOPMD	18469	3590.23	9624.83	0.0	289210.0
R9OOPMD	17217	3401.26	10065.32	0.0	471640.0
R10OOPMD	22034	3596.94	10274.00	0.0	604278.0
R11OOPMD	20554	3514.14	9281.29	0.0	364800.0
R12OOPMD	18747	3368.91	10318.26	0.0	476300.0
S2OOPMD	4549	633.44	2105.21	0.0	50000.0
S3OOPMD	11915	2229.30	6354.93	0.0	255350.0
S4OOPMD	13978	2045.94	5420.07	0.0	156089.4
S5OOPMD	12730	2223.01	5808.98	0.0	230800.0
S6OOPMD	11639	3436.04	14239.85	0.0	1206575.0
S7OOPMD	12972	4092.10	14973.38	0.0	840000.0
S8OOPMD	11735	3251.58	7825.92	0.0	289210.0

S9OOPMD	10646	3044.90	6625.82	0.0	262200.0
S10OOPMD	13513	3397.24	8698.85	0.0	604278.0
S11OOPMD	12488	3226.73	7058.80	0.0	207300.0
S12OOPMD	11027	2981.90	7127.73	0.0	205302.0
H2OOPMDF	8222	0.20	0.40	0.0	1.0
R2OOPMDF	8222	0.84	0.88	0.0	2.0
R3OOPMDF	17991	0.23	0.42	0.0	1.0
R4OOPMDF	21384	0.18	0.38	0.0	1.0
R5OOPMDF	19579	0.16	0.36	0.0	1.0
R6OOPMDF	18165	0.23	0.42	0.0	1.0
R7OOPMDF	20129	0.20	0.40	0.0	1.0
R8OOPMDF	18469	0.21	0.41	0.0	1.0
R9OOPMDF	17217	0.19	0.39	0.0	1.0
R10OOPMDF	22034	0.16	0.37	0.0	1.0
R11OOPMDF	20554	0.16	0.36	0.0	1.0
R12OOPMDF	18747	0.15	0.36	0.0	1.0
S2OOPMDF	4549	1.35	0.82	0.0	2.0
S3OOPMDF	11915	0.22	0.42	0.0	1.0
S4OOPMDF	13978	0.17	0.38	0.0	1.0
S5OOPMDF	12730	0.16	0.36	0.0	1.0
S6OOPMDF	11639	0.23	0.42	0.0	1.0
S7OOPMDF	12972	0.20	0.40	0.0	1.0
S8OOPMDF	11735	0.21	0.41	0.0	1.0
S9OOPMDF	10646	0.18	0.39	0.0	1.0
S10OOPMDF	13513	0.15	0.36	0.0	1.0
S11OOPMDF	12488	0.15	0.36	0.0	1.0
S12OOPMDF	11027	0.14	0.35	0.0	1.0
H2OOPMA	8222	1026.84	2678.94	0.0	60400.0
H2OOPMAF	8222	0.23	0.42	0.0	1.0
R10OOPMDO	22034	3726.17	10482.21	0.0	610278.0
R11OOPMDO	20554	3649.92	9522.69	0.0	374800.0
R12OOPMDO	18747	3524.79	10751.28	0.0	476300.0
S10OOPMDO	13513	3516.31	8895.30	0.0	610278.0
S11OOPMDO	12488	3351.12	7295.90	0.0	207300.0
S12OOPMDO	11027	3123.21	7716.38	0.0	263366.0
R10OOPMDOF	22034	0.17	0.37	0.0	1.0
R11OOPMDOF	20554	0.16	0.37	0.0	1.0
R12OOPMDOF	18747	0.16	0.37	0.0	1.0
S10OOPMDOF	13513	0.16	0.36	0.0	1.0
S11OOPMDOF	12488	0.15	0.36	0.0	1.0
S12OOPMDOF	11027	0.14	0.35	0.0	1.0
R3TOTMD	10964	9986.56	39957.68	0.0	1917887.2
S3TOTMD	8306	9544.28	37768.62	0.0	1917887.2
R3TOTMDF	10964	1.78	1.16	1.0	6.0
S3TOTMDF	8306	1.73	1.12	1.0	6.0



R3TOTMBI	17363	3.58	2.02	1.0	11.0
R4TOTMBI	20777	3.56	2.01	1.0	11.0
R5TOTMBI	19070	3.78	2.06	1.0	11.0
R6TOTMBI	17747	4.28	2.21	1.0	11.0
S3TOTMBI	11519	3.48	1.97	1.0	11.0
S4TOTMBI	13610	3.48	1.97	1.0	11.0
S5TOTMBI	12437	3.67	2.00	1.0	11.0
S6TOTMBI	11387	4.15	2.15	1.0	11.0
R3TOTMBF	17363	0.05	0.21	0.0	1.0
R4TOTMBF	20777	0.11	0.32	0.0	1.0
R5TOTMBF	19070	0.11	0.32	0.0	1.0
R6TOTMBF	17747	0.21	0.41	0.0	1.0
S3TOTMBF	11519	0.03	0.18	0.0	1.0
S4TOTMBF	13610	0.10	0.30	0.0	1.0
S5TOTMBF	12437	0.09	0.29	0.0	1.0
S6TOTMBF	11387	0.20	0.40	0.0	1.0
R8PARTD	18469	0.41	0.73	0.0	2.0
S8PARTD	11735	0.34	0.69	0.0	2.0

### Categorical Variable Codes

Value	H2OOPMDF
.Q=Not asked this wv	11420
0.Not imputed	6545
1.Imputed	1677

Value	R2OOPMDF	R3OOPMDF	R4OOPMDF	R5OOPMDF	R6OOPMDF	R7OOPMDF
.Q=Not asked this wv	11420					
0.Not imputed	3945	13817	17601	16486	13964	16097
1.Imputed	1671	4174	3783	3093	4201	4032
2.Couple allocation	2606					

Value	R8OOPMDF	R9OOPMDF	R10OOPMDF	R11OOPMDF	R12OOPMDF
0.Not imputed	14537	13891	18476	17323	15866
1.Imputed	3932	3326	3558	3231	2881

Value	S20OPMDF	S30OPMDF	S40OPMDF	S50OPMDF	S60OPMDF	S70OPMDF
.Q=Not asked this wv	9123					
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
0.Not imputed	1026	9242	11539	10736	9019	10421
1.Imputed	919	2673	2439	1994	2620	2551
2.Couple allocation	2604					

Value	S80OPMDF	S90OPMDF	S100OPMDF	S110OPMDF	S120OPMDF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not imputed	9277	8694	11471	10624	9486
1.Imputed	2458	1952	2042	1864	1541

Value	H20OPMAF
.Q=Not asked this wv	11420
0.Not imputed	6300
1.Imputed	1922

Value	R100OPMDOF	R110OPMDOF	R120OPMDOF
0.Not imputed	18356	17225	15759
1.Imputed	3678	3329	2988

Value	S100OPMDOF	S110OPMDOF	S120OPMDOF
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
0.Not imputed	11414	10582	9446
1.Imputed	2099	1906	1581

Value	R3TOTMDF
.Q=Not asked this wv	7027
1.Continuous value	5206
2.Complete bracket	4920
3.Incomplete bracket	102
5.No value/bracket	265
6.No expense	471

Value	S3TOTMDF
.Q=Not asked this wv	3704
.U=Unmarried	5658
.V=Spouse NR	323
1.Continuous value	4116
2.Complete bracket	3629
3.Incomplete bracket	62
5.No value/bracket	173
6.No expense	326

Value	R3TOTMBI	R4TOTMBI	R5TOTMBI	R6TOTMBI
.N=No utilization	628	607	509	418
1.0 to 1000-	4228	4682	3627	2610
2.About 1000		1287	1176	937
3.1001 to 5000-	6308	5904	5263	4014
4.About 5000		1454	1476	1419
5.5001 to 25000-	4799	4585	4374	4521
6.About 25000		638	681	791
7.25001 to 100000-	1653	1708	1816	2356
8.About 100000		167	249	344
9.100001 to 500000-	344	303	339	586
10.About 500000		27	22	49
11.500000 above	31	22	47	120

Value	S3TOTMBI	S4TOTMBI	S5TOTMBI	S6TOTMBI
.N=No utilization	396	368	293	252
.U=Unmarried	5658	6869	6538	6306
.V=Spouse NR	418	537	311	220
1.0 to 1000-	2902	3187	2487	1742
2.About 1000		852	756	625
3.1001 to 5000-	4364	4023	3605	2694
4.About 5000		930	947	973
5.5001 to 25000-	3079	2936	2855	2949
6.About 25000		373	394	473
7.25001 to 100000-	962	1013	1033	1331
8.About 100000		90	139	184
9.100001 to 500000-	201	184	191	325
10.About 500000		11	12	28
11.500000 above	11	11	18	63

Value		R3TOTMBF	R4TOTMBF	R5TOTMBF	R6TOTMBF
.N=No utilization		628	607	509	418
0.Not imputed		16578	18395	16886	14031
1.Imputed		785	2382	2184	3716

Value		S3TOTMBF	S4TOTMBF	S5TOTMBF	S6TOTMBF
.N=No utilization		396	368	293	252
.U=Unmarried		5658	6869	6538	6306
.V=Spouse NR		418	537	311	220
0.Not imputed		11138	12287	11268	9091
1.Imputed		381	1323	1169	2296

Value		R8PARTD
0.No part D		13602
1.Part D but no change		2180
2.Part D and change in use		2687

Value		S8PARTD
.U=Unmarried		6417
.V=Spouse NR		317
0.No part D		9159
1.Part D but no change		1142
2.Part D and change in use		1434

## How Constructed

All amounts are reported in nominal dollars. RwOOPMD and RwOOPMDO are total out-of-pocket medical expenditures in the reference period. In Wave 2A the reference period is 12 months; in other waves it is the period since the last interview, or the last 2 years for new interviewees. RwOOPMDF and RwOOPMDOF indicate whether RwOOPMD and RwOOPMDO are imputed. RwOOPMDO and RwOOPMDOF are available beginning in Wave 10.

SwOOPMD, SwOOPMDF, SwOOPMDO and SwOOPMDOF contain this information for the Respondent's spouse or partner.

Beginning with the RAND HRS Longitudinal File 2014 (V2), we drop the total out-of-pocket medical expenditure imputations (RwOOPMD, SwOOPMD) and all related variables for Waves 1 and 2H, since these imputations are based on limited information.

In Wave 2A, only the Financial Respondent is asked about out-of-pocket expenses in two categories: (1) nursing home costs and (2) all other costs. For nursing home expenditures, we allocate the expense to either the Respondent or partner, and impute this at the individual level. For non-nursing home costs, we impute at the household level, and then allocate to individuals.

The household level imputed values are included (H2OOPMD), along with the individual level out-of-pocket expenses (R2OOPMD). Also, we include an additional variable for total household level out-of-pocket medical expenses (H2OOPMA) that includes all expenses, not just those for which utilization is explicitly asked, i.e., to impute using ownership=1 for all households, regardless of utilization and insurance coverage. H2OOPMD and H2OOPMA and their imputation flags are set to .Q for Wave 2H.

All components of RwOOPMD and RwOOPMDO are imputed separately and summed. Individual medical expenditure components and imputation flags are available in the RAND HRS Detailed Imputations File.

Prescription drugs, which are reported as a monthly amount, are multiplied by 24 months. In Waves 3A, 4 and 5, the components of RwOOPMD are (1) hospital and nursing home costs; (2) doctor, dentist and outpatient surgery costs; (3) average monthly prescription drug costs; and (4) home health care and special facilities or services costs.

Beginning in Wave 6, the components of RwOOPMD are (1) hospital costs; (2) nursing home costs; (3) doctor visits costs; (4) dentist costs; (5) outpatient surgery costs; (6) average monthly prescription drug costs; (7) home health care costs; and (8) special facilities costs.

Beginning in Wave 10, RwOOPMDO contains all of the components included in RwOOPMD, plus out-of-pocket costs from a ninth, catch-all "other" category.

In Wave 8 only, Respondents are asked different questions about out-of-pocket prescription drug costs depending on whether or not they have enrolled in Medicare Part D. For those whose prescription drug use and cost are unaffected by Medicare Part D, the reported or imputed monthly average is multiplied by 24 months to estimate drug costs for the last two years. For those enrolled, two questions ask if their use or costs of prescription drugs changed. If the answer to either of these questions is "yes", then Respondents report two average monthly out-of-pocket amounts: one for the 12 months prior to coverage under Part D and another for the 12 months after. Total prescription drug costs for the last two years in Wave 8 is, then, calculated as:

$$R8MDRUG = [\# \text{ Months post-Part D} * \text{expenses post-Part D}] + [(24 - \# \text{ Months post-Part D}) * \text{expenses pre-Part D}]$$

The variable R8PARTD contains the flag for Medicare Part D status, and has the following values: 0 = No Part D, 1 = Part D but no change, and 2 = Part D and change in use or cost. The variable R8MDRUG can be found in the RAND HRS Detailed Imputations File.

A number of covariates are used in the imputations including health insurance as derived for this file (RwHIGOV, RwCOVR, RwCOVS, RwHIOTHP). Please see the section titled "Health Care Utilization and Medical Expenditures" earlier in this document for a description of the imputation method.

In Wave 2A, the S2OOPMD, S2OOPMDF are taken from spouses' or household level response. For all other waves, the spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3OOPMD is taken from the Wave 3 spouse's R3OOPMD.

Beginning with the RAND HRS Longitudinal File 2014 (V2), we reintroduce the variables that contain the continuous amounts for total medical expenditures, including that paid by insurance (R3TOTMD), for Wave 3H, variables that were present in the RAND HRS Longitudinal File prior to Version M. R3TOTMDF indicates whether R3TOTMD is imputed. For Wave 3A, these variables are set to .Q.

Also beginning with the RAND HRS Longitudinal File 2014 (V2), we drop the variables that contain the reported bracket information for total medical expenditures, including that paid by insurance (RwTOTMB, SwTOTMB), for Waves 3 to 6. Interested users can obtain this information by merging the RAND HRS Longitudinal File with the RAND HRS Fat File for a given wave by HHIDPN. The RAND HRS Fat Files contain most of the original HRS variables, with household data merged to the Respondent level.

RwTOTMBI and RwTOTMBF are available from Waves 3 to 6. RwTOTMBI provides the estimated bracket for total medical expenditures, including that paid by insurance. This information is obtained from unfolding bracket questions,

except if a continuous amount is given in Wave 3H, and complete brackets are imputed when incomplete bracket information is provided. RwTOTMBF indicates whether RwTOTMBI is imputed.

S3TOTMD, S3TOTMDF, SwTOTMBI and SwTOTMBF contain this information for the Respondent's spouse or partner.

### **Cross Wave Differences in Original HRS Data**

In Wave 2A, all Respondents are asked about medical utilization in the last 12 months, and separate questions about out-of-pocket costs for nursing home and all other out-of-pocket medical costs are asked only of the Financial Respondent.

From Wave 3 forward, medical utilization questions cover the last 2 years or the period since last interview. In Waves 3, 4 and 5, questions ask separately about out-of-pocket costs for four categories of services: (1) hospital/nursing home; (2) doctors/dentists/outpatient surgery; (3) prescription drugs per month; and (4) in-home medical care/special facilities.

Beginning in Wave 6, questions on individual categories are asked separately. In Waves 6-9, questions are asked about eight categories of out-of-pocket medical costs: (1) hospital costs; (2) nursing home costs; (3) doctor visits costs; (4) dental costs; (5) outpatient surgery costs; (6) average monthly prescription drug costs; (7) home health care; and (8) special facilities costs.

Beginning in Wave 10, a ninth category seeks to capture any additional out-of-pocket medical expenditures that cannot be assigned to any of the other categories. We include two estimates of out-of-pocket medical expenditures for these latest waves: RwOOPMD, which allows for longitudinal analysis, contains the eight components present in Waves 6-9, and RwOOPMDO, which includes the "other" spending category in the estimate of total out-of-pocket medical expenditures.

In Waves 1 and 2, there are no questions about the total costs of all medical services.

In Wave 3H, Respondents are asked to estimate total medical costs for all medical services since the previous interview. If the Respondent does not provide an exact amount, unfolding bracket follow-up questions are asked. In Wave 3A and from Waves 4 to 6, an exact amount of total expenditures is not asked; all Respondents are directed into unfolding bracket questions.

Unlike from Wave 4 forward, where Respondents who answer the unfolding bracket questions are given the option of saying that the amount was "about" equal to a certain value, there is no such option in Wave 3. In Wave 3A, the unfolding bracket questions ask, "Do you think the total costs were more than \$5,000?" and follow up with ascending or descending amounts based on the answer. In Wave 3H, however, the unfolding bracket questions ask, "Did it amount to \$5,000 or more?" Therefore, for Wave 3A, the bracket "0 to 1000-" means "0 to 1000," the bracket "1001 to 5000-" means "1001 to 5000," and so on. For Wave 3H, the bracket "0 to 1000-" means "0 to 999," the bracket "1001 to 5000-" means "1000 to 5000," and so on.

Starting in Wave 7, there are no questions about total medical expenditures.

In Wave 8, prescription drug expenses are reported differently depending on Medicare Part D enrollment status. For those who are enrolled in Medicare Part D and report a change in their use or costs of prescription drugs, two sets of questions are asked, one for the 12 months before Part D coverage, and the other for the time since being enrolled in Part D. Those not enrolled in Part D or who reported no change in their drug use or costs are asked the same questions as asked in prior waves.

Beginning with Tracker 2004 V1 (Wave 7), HRS has implemented a verified nursing home residence flag for each wave, xNURSHM, e.g., GNURSHM for Wave 5 (2000). From Wave 5 forward, there are cases at each interview where this information conflicts with nursing home residency reported in the core data cover sheet section. In the questions about

nursing home utilization, a cover-sheet reporting a nursing home resident is assigned as "Yes" for any nursing home stays by default. In some cases where Tracker indicates residence is NOT a nursing home, the interviewer overwrites this with a "No" for any nursing home stays, but in many cases this does not occur. We examine these cases for length of stay, residency move-in date, and missing answers to estimate whether there is any nursing home utilization besides the residency reported in the core data, which HRS has determined is NOT a nursing home. Please see "Medical Care Utilization: Nursing Home" for more details on how these items are assessed.

## HRS Variables Used

### AHEAD 1993:

B150	A11. R'S MARITAL STATUS
B622	E5. R/SP IN NURSING HOME LAST 12 MOS
B627	E8. NURSING HOME \$ NOT COVERED BY INS
B628	E9. R/SP PAY ANY NONCOVERED NURSE HOME \$
B629	E10. \$ R/SP PAY NURSING HOME
B629C	CATEG: E10. \$ R/SP PAY NURSING HOME

### AHEAD 1995:

D1664	E1. HOSPITAL
D1681	E5. NURSING HOME
D1688	E10. NURHM OR HOSP R PAY \$
D1689	E10A. NURHM OR HOSP DK-1
D1690	E10B. NURHM OR HOSP DK-2
D1691	E10C. NURHM OR HOSP DK-3
D1692	E10D. NURHM OR HOSP DK-4
D1693	E10E. NURHM OR HOSP DK-5
D1698	E11. DR TIMES
D1701	E13.DR, NOT COV
D1713	E14. OUTPATIENT SURGERY
D1716	E16. OUTSURG, NOT COV
D1728	E17. DENTIST
D1731	E18. DENTIST, NOT COV
D1732	E18A.DOCTOR/OUT/DENTAL R PAY \$
D1733	E18B.DR/OUT/DENTAL DK-1
D1734	E18C.DR/OUT/DENTAL DK-2
D1735	E18D.DR/OUT/DENTAL DK-3
D1736	E18E.DR/OUT/DENTAL DK-4
D1737	E18F.DR/OUT/DENTAL DK-5
D1744	E20. DRUGS
D1748	E21. DRUGS, NOT COV
D1749	E21A.PRESCR R PAY \$
D1750	E21B.PRESCR DK-1
D1751	E21C.PRESCR DK-2
D1752	E21D.PRESCR DK-3
D1753	E21E.PRESCR DK-4
D1754	E21F.PRESCR DK-5
D1760	E22.IN-HOME SERV
D1762	E23. IN-HOME R PAY \$
D1774	E24.R USE SERVICE
D1781	E24A.SPECIAL R PAY \$
D1782	E24B.SPECIAL DK-1
D1783	E24C.SPECIAL DK-2
D1784	E24D.SPECIAL DK-3
D1785	E24E.SPECIAL DK-4
D1786	E24F.SPECIAL DK-5
D1799	E26.TOTAL COST MEDICAL
D1800	E26A.TOTAL MEDICAL DK-1
D1801	E26B.TOTAL MEDICAL DK-2

D1802	E26C.TOTAL MEDICAL DK-3
D1803	E26D.TOTAL MEDICAL DK-4
D240	CS11.R-WHERE LIVE
HRS 1996:	
E1770	E1. HOSPITAL-YR
E1776	E5. NURSING HOME-YR
E1783	E10. NURHM OR HOSP R PAY \$
E1784	E10A. NURHM OR HOSP R PAY \$ DK-1
E1785	E10B. NURHM OR HOSP R PAY \$ DK-2
E1786	E10C. NURHM OR HOSP R PAY \$ DK-3
E1787	E10D. NURHM OR HOSP R PAY \$ DK-4
E1788	E10E. NURHM OR HOSP R PAY \$ DK-5
E1790	E11. DR TIMES
E1793	E13.DR, NOT COV
E1795	E14. OUTPATIENT SURGERY-YR
E1798	E16. OUTSURG, NOT COV
E1800	E17.DENTIST-YR
E1804	E18A.DOCTOR/OUT/DENTAL R PAY \$
E1805	E18B.DR/OUT/DENTAL \$ DK-1
E1806	E18C.DR/OUT/DENTAL \$ DK-2
E1807	E18D.DR/OUT/DENTAL \$ DK-3
E1808	E18E.DR/OUT/DENTAL \$ DK-4
E1809	E18F.DR/OUT/DENTAL \$ DK-5
E1811	E20. DRUGS-YR
E1815	E21. DRUGS, NOT COV
E1816	E21A.PRESCR R PAY \$
E1817	E21B.PRESCR R PAY \$ DK-1
E1818	E21C.PRESCR R PAY \$ DK-2
E1819	E21D.PRESCR R PAY \$ DK-3
E1820	E21E.PRESCR R PAY \$ DK-4
E1821	E21F.PRESCR R PAY \$ DK-5
E1827	E22.IN-HOME SERV
E1829	E23. IN-HOME R PAY \$
E1831	E24.R USE SERVICE
E1834	E24A.SPECIAL R PAY \$
E1835	E24B.SPECIAL R PAY \$ DK-1
E1836	E24C.SPECIAL R PAY \$ DK-2
E1837	E24D.SPECIAL R PAY \$ DK-3
E1838	E24E.SPECIAL R PAY \$ DK-4
E1839	E24F.SPECIAL R PAY \$ DK-5
E1841	E26.TOTAL COST MEDICAL
E1842	E26A.TOTAL MEDICAL \$ DK-5K
E1843	E26B.TOTAL MEDICAL \$ DK-1K
E1844	E26C.TOTAL MEDICAL \$ DK-25K
E1845	E26D.TOTAL MEDICAL \$ DK-100K
E1846	E26E.TOTAL MEDICAL \$ DK-500K
E240	CS11.R-WHERE LIVE
HRS 1998:	
F2295	E1. HOSPITAL-YR
F2298	E4. HOSP \$ NOT COV
F2299	E5. NURSING HOME-YR
F2304	E8.NURHM NOT COV
F2305	E10. NURHM OR HOSP R PAY \$
F2306	E10A. NURHM OR HOSP DK-1
F2307	E10B. NURHM OR HOSP DK-2
F2308	E10C. NURHM OR HOSP DK-3
F2309	E10B1. NURHM OR HOSP DK-2
F2310	E10B1. NURHM OR HOSP DK-2
F2311	E10D. NURHM OR HOSP DK-4



F2312	E10E. NURHM OR HOSP DK-5
F2331	E11. DR TIMES
F2332	E13.DR, NOT COV
F2333	E14. OUTPATIENT SURGERY-YR
F2334	E16. OUTSURG, NOT COV
F2335	E17.DENTIST-YR
F2336	E18. DENTIST, NOT COV
F2337	E18A.DOCTOR/OUT/DENTAL R PAY \$
F2338	E18B.DR/OUT/DENTAL DK-1
F2339	E18C.DR/OUT/DENTAL DK-2
F2340	E18D.DR/OUT/DENTAL DK-3
F2341	E18E.DR/OUT/DENTAL DK-4
F2342	E18C1.DR/OUT/DENTAL DK-2
F2343	E18F.DR/OUT/DENTAL DK-4
F2344	E18G.DR/OUT/DENTAL DK-5
F2345	E20. DRUGS-YR
F2346	E21. DRUGS, NOT COV
F2347	E21A.PRESCR R PAY \$
F2348	E21B.PRESCR DK-1
F2349	E21C.PRESCR DK-2
F2350	E21D.PRESCR DK-3
F2351	E21E.PRESCR DK-4
F2352	E21B1.PRESCR DK-2
F2353	E21E.PRESCR DK-4
F2354	E21F.PRESCR DK-5
F2357	E22.IN-HOME SERV
F2359	E23. IN-HOME R PAY \$
F2361	E24.R USE SERVICE
F2364	E24A.SPECIAL R PAY \$
F2365	E24B.SPECIAL DK-1
F2366	E24C.SPECIAL DK-2
F2367	E24D.SPECIAL DK-3
F2368	E24E.SPECIAL DK-4
F2369	E24F.SPECIAL DK-5
F2383	E26.TOTAL COST MEDICAL-5K
F2384	E26A.TOTAL MEDICAL COSTS-2ND
F2385	E26B.TOTAL MEDICAL COSTS-3RD
F2386	E26C.TOTAL MEDICAL COSTS-4TH
F2387	E26D.TOTAL MEDICAL COSTS-5TH
F517	CS11.R IN NURSING HOME
HRS 2000:	
G2567	E1. HOSPITAL-YR
G2570	E4. HOSP \$ NOT COV
G2571	E5. NURSING HOME-YR
G2572	E6. NURHM # TIMES
G2573	E7. NURHM-1 NIGHTS
G2574	E7A.NURHM-1 MONTHS
G2576	E8.NURHM NOT COV
G2577	E10. NURHM OR HOSP R PAY \$
G2578	E10A. NURHM OR HOSP DK-1
G2579	E10B. NURHM OR HOSP DK-2
G2580	E10C. NURHM OR HOSP DK-3
G2581	E10B1. NURHM OR HOSP DK-2
G2582	E10Y1B1. NURHM OR HOSP DK-2
G2583	E10D. NURHM OR HOSP DK-4
G2584	E10E. NURHM OR HOSP DK-5
G2603	E11. DR TIMES
G2604	E11A. DR 20 TIMES
G2605	E11B. DR 5 TIMES

G2606	E11C. DR ANY TIME
G2607	E11D. DR 50 TIMES
G2609	E13.DR-NOT COVERED
G2610	E14. OUTPATIENT SURGERY-YR
G2611	E16. OUTSURG-NOT COVERED
G2612	E17.DENTIST-YR
G2613	E18. DENTIST-NOT COVERED
G2614	E18A.DOCTOR/OUT/DENTAL R PAY \$
G2615	E18B.DR/OUT/DENTAL DK-1
G2616	E18C.DR/OUT/DENTAL DK-2
G2617	E18D.DR/OUT/DENTAL DK-3
G2618	E18E.DR/OUT/DENTAL DK-4
G2619	E18C1.DR/OUT/DENTAL DK-2
G2620	E18F.DR/OUT/DENTAL DK-4
G2621	E18G.DR/OUT/DENTAL DK-5
G2622	E20. DRUGS-YR
G2623	E21. DRUGS-NOT COVERED
G2624	E21A.PRESCR R PAY \$
G2625	E21B.PRESCR DK-1
G2626	E21C.PRESCR DK-2
G2627	E21D.PRESCR DK-3
G2628	E21E.PRESCR DK-4
G2629	E21B1.PRESCR DK-2
G2630	E21Y1E.PRESCR DK-4
G2631	E21F.PRESCR DK-5
G2634	E22.IN-HOME SERV
G2636	E23. IN-HOME R PAY \$
G2638	E24.R USE SERVICE
G2641	E24A.SPECIAL R PAY \$
G2642	E24B.SPECIAL DK-1
G2643	E24C.SPECIAL DK-2
G2644	E24D.SPECIAL DK-3
G2645	E24E.SPECIAL DK-4
G2646	E24F.SPECIAL DK-5
G2660	E26.TOTAL COST MEDICAL-5K
G2661	E26A.TOTAL MEDICAL COSTS-2ND
G2683	E26B.TOTAL MEDICAL COSTS-3RD
G2684	E26C.TOTAL MEDICAL COSTS-4TH
G2685	E26D.TOTAL MEDICAL COSTS-5TH
G558	CS11.R IN NURSING HOME
G789	CS25.MONTH MOVED TO NURS HOME
G790	CS25A. YEAR MOVED TO NURS HOME
HRS 2002:	
HA028	R IN NURSING HOME
HA065	MONTH MOVED TO NH
HA066	YEAR MOVED TO NURS HOME
HN099	OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR
HN102	HOSPITAL STAYS COVERED BY INS
HN106	AMT PAID O-O-P HOSPITAL COSTS
HN107	AMT PAID O-O-P HOSPITAL COSTS - MIN
HN108	AMT PAID O-O-P HOSPITAL COSTS - MAX
HN114	EVER PATIENT OVERNIGHT IN NURSING HOME
HN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
HN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
HN117	NUM MOS R SPENT OVERNIGHT IN NH
HN118	NH COSTS COVERED BY INSURANCE
HN119	AMT PAID O-O-P NURSING HOME
HN120	AMT PAID O-O-P NURSING HOME- MIN
HN121	AMT PAID O-O-P NURSING HOME- MAX

HN134	OUTPATIENT SURGERY- PREV IW/2 YRS
HN135	OUTPATIENT SURG COSTS COVERED BY HI
HN139	AMT PAID O-O-P OUTPAT SURGERY
HN140	AMT PAID O-O-P OUTPAT SURGERY - MIN
HN141	AMT PAID O-O-P OUTPAT SURGERY - MAX
HN148	NUMBER TIMES SEEN DOCTOR 20X
HN149	NUMBER TIMES SEEN DOCTOR 5X
HN150	HAS R SOUGHT DOC ADVICE IN PAST 2 YRS
HN151	R SEEK DOC ADVICE 50X
HN152	DOCTOR VISITS COVERED BY INSURANCE
HN156	AMT PAY O-O-P FOR DOC VISITS
HN157	AMT PAY O-O-P FOR DOC VISITS - MIN
HN158	AMT PAY O-O-P FOR DOC VISITS - MAX
HN164	SEEN DENTIST SINCE PREV IW/2YRS
HN165	DENTAL COSTS COVERED BY INSURANCE
HN168	AMT PAY O-O-P DENTAL
HN169	AMT PAY O-O-P DENTAL - MIN
HN170	AMT PAY O-O-P DENTAL - MAX
HN175	TAKE PRESCRIPTION DRUGS REGULARLY
HN176	DRUG COSTS COVERED BY INSURANCE
HN180	AMT PAY O-O-P RX DRUGS PER MONTH
HN181	AMT PAY O-O-P RX DRUGS PER MONTH- MIN
HN182	AMT PAY O-O-P RX DRUGS PER MONTH- MAX
HN189	USED HOME HEALTH SVC- PREV IW/2 YRS
HN190	HOME HEALTH SERVICE COST COVERED BY INS
HN194	AMT PAY O-O-P HOME HEALTH SVC
HN195	AMT PAY O-O-P HOME HEALTH SVC - MIN
HN196	AMT PAY O-O-P HOME HEALTH SVC - MAX
HN202	USED OTHER HEALTH SVC- PREV IW/2 YRS
HN203	OTHER HEALTH SVC PAID BY R/SP/P
HN222	TOTAL MEDICAL COSTS - MIN
HN223	TOTAL MEDICAL COSTS - MAX
HN239	AMT PAY O-O-P OTHER HEALTH SERVICE
HN246	AMT PAY O-O-P OTHER HEALTH SERVICE- MIN
HN247	AMT PAY O-O-P OTHER HEALTH SERVICE- MAX
HRS 2004:	
JA028	R IN NURSING HOME
JA065	MONTH MOVED TO NH
JA066	YEAR MOVED TO NURS HOME
JN099	OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR
JN102	HOSPITAL STAYS COVERED BY INS
JN106	AMT PAID O-O-P HOSPITAL COSTS
JN107	AMT PAID O-O-P HOSPITAL COSTS - MIN
JN108	AMT PAID O-O-P HOSPITAL COSTS - MAX
JN114	EVER PATIENT OVERNIGHT IN NURSING HOME
JN115	# TIMES SPENT OVERNIGHT IN NURSING HOME
JN116	NUM NIGHTS R SPENT OVERNIGHT IN NH
JN117	NUM MOS R SPENT OVERNIGHT IN NH
JN118	NH COSTS COVERED BY INSURANCE
JN119	AMT PAID O-O-P NURSING HOME
JN120	AMT PAID O-O-P NURSING HOME- MIN
JN121	AMT PAID O-O-P NURSING HOME- MAX
JN135	OUTPATIENT SURG COSTS COVERED BY HI
JN139	AMT PAID O-O-P OUTPAT SURGERY
JN140	AMT PAID O-O-P OUTPAT SURGERY - MIN
JN141	AMT PAID O-O-P OUTPAT SURGERY - MAX
JN152	DOCTOR VISITS COVERED BY INSURANCE
JN156	AMT PAY O-O-P FOR DOC VISITS
JN157	AMT PAY O-O-P FOR DOC VISITS - MIN

JN158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 JN165 DENTAL COSTS COVERED BY INSURANCE  
 JN168 AMT PAY O-O-P DENTAL  
 JN169 AMT PAY O-O-P DENTAL - MIN  
 JN170 AMT PAY O-O-P DENTAL - MAX  
 JN175 TAKE PRESCRIPTION DRUGS REGULARLY  
 JN176 DRUG COSTS COVERED BY INSURANCE  
 JN180 AMT PAY O-O-P RX DRUGS PER MONTH  
 JN181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 JN182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 JN190 HOME HEALTH SERVICE COST COVERED BY INS  
 JN194 AMT PAY O-O-P HOME HEALTH SVC  
 JN195 AMT PAY O-O-P HOME HEALTH SVC - MIN  
 JN196 AMT PAY O-O-P HOME HEALTH SVC - MAX  
 JN202 USED OTHER HEALTH SVC- PREV IW/2 YRS  
 JN203 OTHER HEALTH SVC PAID BY R/SP/P  
 JN239 AMT PAY O-O-P OTHER HEALTH SERVICE  
 JN246 AMT PAY O-O-P OTHER HEALTH SERVICE- MIN  
 JN247 AMT PAY O-O-P OTHER HEALTH SERVICE- MAX  
 HRS 2006:  
 KA028 R IN NURSING HOME  
 KA065 MONTH MOVED TO NH  
 KA066 YEAR MOVED TO NURS HOME  
 KN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
 KN102 HOSPITAL STAYS COVERED BY INS  
 KN106 AMT PAID O-O-P HOSPITAL COSTS  
 KN107 AMT PAID O-O-P HOSPITAL COSTS - MIN  
 KN108 AMT PAID O-O-P HOSPITAL COSTS - MAX  
 KN114 EVER PATIENT OVERNIGHT IN NURSING HOME  
 KN115 # TIMES SPENT OVERNIGHT IN NURSING HOME  
 KN116 NUM NIGHTS R SPENT OVERNIGHT IN NH  
 KN117 NUM MOS R SPENT OVERNIGHT IN NH  
 KN118 NH COSTS COVERED BY INSURANCE  
 KN119 AMT PAID O-O-P NURSING HOME  
 KN120 AMT PAID O-O-P NURSING HOME- MIN  
 KN121 AMT PAID O-O-P NURSING HOME- MAX  
 KN135 OUTPATIENT SURG COSTS COVERED BY HI  
 KN139 AMT PAID O-O-P OUTPAT SURGERY  
 KN140 AMT PAID O-O-P OUTPAT SURGERY - MIN  
 KN141 AMT PAID O-O-P OUTPAT SURGERY - MAX  
 KN152 DOCTOR VISITS COVERED BY INSURANCE  
 KN156 AMT PAY O-O-P FOR DOC VISITS  
 KN157 AMT PAY O-O-P FOR DOC VISITS - MIN  
 KN158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 KN165 DENTAL COSTS COVERED BY INSURANCE  
 KN168 AMT PAY O-O-P DENTAL  
 KN169 AMT PAY O-O-P DENTAL - MIN  
 KN170 AMT PAY O-O-P DENTAL - MAX  
 KN175 TAKE RX DRUGS REGULARLY  
 KN176 DRUG COSTS COVERED BY INSURANCE  
 KN180 AMT PAY O-O-P RX DRUGS PER MONTH  
 KN181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 KN182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 KN190 HOME HEALTH SERVICE COST COVERED BY INS  
 KN194 AMT PAY O-O-P HOME HEALTH SVC  
 KN195 AMT PAY O-O-P HOME HEALTH SVC - MIN  
 KN196 AMT PAY O-O-P HOME HEALTH SVC - MAX  
 KN202 USED OTHER HEALTH SVC- PREV IW/2 YRS  
 KN203 OTHER HEALTH SVC PAID BY R/SP/P

KN239 AMT PAY O-O-P OTHER HEALTH SERVICE  
 KN246 AMT PAY O-O-P OTHER HEALTH SERVICE- MIN  
 KN247 AMT PAY O-O-P OTHER HEALTH SERVICE- MAX  
 KN371 INSURANCE COVER RX COSTS-BF MEDICARE  
 KN374 AMT PAY O-O-P RX DRUGS PER MONTH  
 KN375 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 KN376 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 KN381 INSURANCE COVER RX COSTS-AFTER MEDICARE  
 KN382 AMT PAY O-O-P RX DRUGS PER MONTH  
 KN383 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 KN384 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 HRS 2008:  
 LA028 R IN NURSING HOME  
 LA065 MONTH MOVED TO NH  
 LA066 YEAR MOVED TO NURS HOME  
 LN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
 LN102 HOSPITAL STAYS COVERED BY INS  
 LN106 AMT PAID O-O-P HOSPITAL COSTS  
 LN107 AMT PAID O-O-P HOSPITAL COSTS - MIN  
 LN108 AMT PAID O-O-P HOSPITAL COSTS - MAX  
 LN114 EVER PATIENT OVERNIGHT IN NURSING HOME  
 LN115 # TIMES SPENT OVERNIGHT IN NURSING HOME  
 LN116 NUM NIGHTS R SPENT OVERNIGHT IN NH  
 LN117 NUM MOS R SPENT OVERNIGHT IN NH  
 LN118 NH COSTS COVERED BY INSURANCE  
 LN119 AMT PAID O-O-P NURSING HOME  
 LN120 AMT PAID O-O-P NURSING HOME- MIN  
 LN121 AMT PAID O-O-P NURSING HOME- MAX  
 LN135 OUTPATIENT SURG COSTS COVERED BY HI  
 LN139 AMT PAID O-O-P OUTPAT SURGERY  
 LN140 AMT PAID O-O-P OUTPAT SURGERY - MIN  
 LN141 AMT PAID O-O-P OUTPAT SURGERY - MAX  
 LN152 DOCTOR VISITS COVERED BY INSURANCE  
 LN156 AMT PAY O-O-P FOR DOC VISITS  
 LN157 AMT PAY O-O-P FOR DOC VISITS - MIN  
 LN158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 LN165 DENTAL COSTS COVERED BY INSURANCE  
 LN168 AMT PAY O-O-P DENTAL  
 LN169 AMT PAY O-O-P DENTAL - MIN  
 LN170 AMT PAY O-O-P DENTAL - MAX  
 LN175 TAKE RX DRUGS REGULARLY  
 LN176 DRUG COSTS COVERED BY INSURANCE  
 LN180 AMT PAY O-O-P RX DRUGS PER MONTH  
 LN181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 LN182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 LN190 HOME HEALTH SERVICE COST COVERED BY INS  
 LN194 AMT PAY O-O-P HOME HEALTH SVC  
 LN195 AMT PAY O-O-P HOME HEALTH SVC - MIN  
 LN196 AMT PAY O-O-P HOME HEALTH SVC - MAX  
 LN202 USED OTHER HEALTH SVC- PREV IW/2 YRS  
 LN203 OTHER HEALTH SVC PAID BY R/SP/P  
 LN239 AMT PAY O-O-P OTHER HEALTH SERVICE  
 LN246 AMT PAY O-O-P OTHER HEALTH SERVICE- MIN  
 LN247 AMT PAY O-O-P OTHER HEALTH SERVICE- MAX  
 HRS 2010:  
 MA028 R IN NURSING HOME  
 MA065 MONTH MOVED TO NH  
 MA066 YEAR MOVED TO NURS HOME  
 MN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR

MN102 HOSPITAL STAYS COVERED BY INS  
 MN106 AMT PAID O-O-P HOSPITAL COSTS  
 MN107 AMT PAID O-O-P HOSPITAL COSTS - MIN  
 MN108 AMT PAID O-O-P HOSPITAL COSTS - MAX  
 MN114 EVER PATIENT OVERNIGHT IN NURSING HOME  
 MN115 # TIMES SPENT OVERNIGHT IN NURSING HOME  
 MN116 NUM NIGHTS R SPENT OVERNIGHT IN NH  
 MN117 NUM MOS R SPENT OVERNIGHT IN NH  
 MN118 NH COSTS COVERED BY INSURANCE  
 MN119 AMT PAID O-O-P NURSING HOME  
 MN120 AMT PAID O-O-P NURSING HOME- MIN  
 MN121 AMT PAID O-O-P NURSING HOME- MAX  
 MN135 OUTPATIENT SURG COSTS COVERED BY HI  
 MN139 AMT PAID O-O-P OUTPAT SURGERY  
 MN140 AMT PAID O-O-P OUTPAT SURGERY - MIN  
 MN141 AMT PAID O-O-P OUTPAT SURGERY - MAX  
 MN152 DOCTOR VISITS COVERED BY INSURANCE  
 MN156 AMT PAY O-O-P FOR DOC VISITS  
 MN157 AMT PAY O-O-P FOR DOC VISITS - MIN  
 MN158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 MN165 DENTAL COSTS COVERED BY INSURANCE  
 MN168 AMT PAY O-O-P DENTAL  
 MN169 AMT PAY O-O-P DENTAL - MIN  
 MN170 AMT PAY O-O-P DENTAL - MAX  
 MN175 TAKE RX DRUGS REGULARLY  
 MN176 DRUG COSTS COVERED BY INSURANCE  
 MN180 AMT PAY O-O-P RX DRUGS PER MONTH  
 MN181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 MN182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 MN190 HOME HEALTH SERVICE COST COVERED BY INS  
 MN194 AMT PAY O-O-P HOME HEALTH SVC  
 MN195 AMT PAY O-O-P HOME HEALTH SVC - MIN  
 MN196 AMT PAY O-O-P HOME HEALTH SVC - MAX  
 MN202 USED OTHER HEALTH SVC- PREV IW/2 YRS  
 MN203 OTHER HEALTH SVC PAID BY R/SP/P  
 MN239 AMT PAY O-O-P OTHER HEALTH SERVICE  
 MN246 AMT PAY O-O-P OTHER HEALTH SERVICE- MIN  
 MN247 AMT PAY O-O-P OTHER HEALTH SERVICE- MAX  
 MN332 EX OTHER MEDICAL EXPENSES  
 MN333 EX PAY O-O-P OTHER MEDICAL  
 MN334 AMT PAY O-O-P OTHER MEDICAL - MIN  
 MN335 AMT PAY O-O-P OTHER MEDICAL - MAX  
 HRS 2012:  
 NA028 R IN NURSING HOME  
 NA065 MONTH MOVED TO NH  
 NA066 YEAR MOVED TO NURS HOME  
 NN099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
 NN102 HOSPITAL STAYS COVERED BY INS  
 NN106 AMT PAID O-O-P HOSPITAL COSTS  
 NN107 AMT PAID O-O-P HOSPITAL COSTS - MIN  
 NN108 AMT PAID O-O-P HOSPITAL COSTS - MAX  
 NN114 EVER PATIENT OVERNIGHT IN NURSING HOME  
 NN115 # TIMES SPENT OVERNIGHT IN NURSING HOME  
 NN116 NUM NIGHTS R SPENT OVERNIGHT IN NH  
 NN117 NUM MOS R SPENT OVERNIGHT IN NH  
 NN118 NH COSTS COVERED BY INSURANCE  
 NN119 AMT PAID O-O-P NURSING HOME  
 NN120 AMT PAID O-O-P NURSING HOME- MIN  
 NN121 AMT PAID O-O-P NURSING HOME- MAX

NN135 OUTPATIENT SURG COSTS COVERED BY HI  
 NN139 AMT PAID O-O-P OUTPAT SURGERY  
 NN140 AMT PAID O-O-P OUTPAT SURGERY - MIN  
 NN141 AMT PAID O-O-P OUTPAT SURGERY - MAX  
 NN152 DOCTOR VISITS COVERED BY INSURANCE  
 NN156 AMT PAY O-O-P FOR DOC VISITS  
 NN157 AMT PAY O-O-P FOR DOC VISITS - MIN  
 NN158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 NN165 DENTAL COSTS COVERED BY INSURANCE  
 NN168 AMT PAY O-O-P DENTAL  
 NN169 AMT PAY O-O-P DENTAL - MIN  
 NN170 AMT PAY O-O-P DENTAL - MAX  
 NN175 TAKE RX DRUGS REGULARLY  
 NN176 DRUG COSTS COVERED BY INSURANCE  
 NN180 AMT PAY O-O-P RX DRUGS PER MONTH  
 NN181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 NN182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 NN190 HOME HEALTH SERVICE COST COVERED BY INS  
 NN194 AMT PAY O-O-P HOME HEALTH SVC  
 NN195 AMT PAY O-O-P HOME HEALTH SVC - MIN  
 NN196 AMT PAY O-O-P HOME HEALTH SVC - MAX  
 NN202 USED OTHER HEALTH SVC- PREV IW/2 YRS  
 NN203 OTHER HEALTH SVC PAID BY R/SP/P  
 NN239 AMT PAY O-O-P OTHER HEALTH SERVICE  
 NN246 AMT PAY O-O-P OTHER HEALTH SERVICE- MIN  
 NN247 AMT PAY O-O-P OTHER HEALTH SERVICE- MAX  
 NN332 EX OTHER MEDICAL EXPENSES  
 NN333 EX PAY O-O-P OTHER MEDICAL  
 NN334 AMT PAY O-O-P OTHER MEDICAL - MIN  
 NN335 AMT PAY O-O-P OTHER MEDICAL - MAX  
 HRS 2014:  
 OA028 R IN NURSING HOME  
 OA065 MONTH MOVED TO NH  
 OA066 YEAR MOVED TO NURS HOME  
 ON099 OVERNIGHT STAY IN HOSP-SINCE PREV IW/2YR  
 ON106 AMT PAID O-O-P HOSPITAL COSTS  
 ON107 AMT PAID O-O-P HOSPITAL COSTS - MIN  
 ON108 AMT PAID O-O-P HOSPITAL COSTS - MAX  
 ON114 EVER PATIENT OVERNIGHT IN NURSING HOME  
 ON115 # TIMES SPENT OVERNIGHT IN NURSING HOME  
 ON116 NUM NIGHTS R SPENT OVERNIGHT IN NH  
 ON117 NUM MOS R SPENT OVERNIGHT IN NH  
 ON119 AMT PAID O-O-P NURSING HOME  
 ON120 AMT PAID O-O-P NURSING HOME- MIN  
 ON121 AMT PAID O-O-P NURSING HOME- MAX  
 ON139 AMT PAID O-O-P OUTPAT SURGERY  
 ON140 AMT PAID O-O-P OUTPAT SURGERY - MIN  
 ON141 AMT PAID O-O-P OUTPAT SURGERY - MAX  
 ON156 AMT PAY O-O-P FOR DOC VISITS  
 ON157 AMT PAY O-O-P FOR DOC VISITS - MIN  
 ON158 AMT PAY O-O-P FOR DOC VISITS - MAX  
 ON168 AMT PAY O-O-P DENTAL  
 ON169 AMT PAY O-O-P DENTAL - MIN  
 ON170 AMT PAY O-O-P DENTAL - MAX  
 ON180 AMT PAY O-O-P RX DRUGS PER MONTH  
 ON181 AMT PAY O-O-P RX DRUGS PER MONTH- MIN  
 ON182 AMT PAY O-O-P RX DRUGS PER MONTH- MAX  
 ON194 AMT PAY O-O-P HOME HEALTH SVC  
 ON195 AMT PAY O-O-P HOME HEALTH SVC - MIN

ON196	AMT PAY O-O-P HOME HEALTH SVC - MAX
ON202	USED OTHER HEALTH SVC- PREV IW/2 YRS
ON203	OTHER HEALTH SVC PAID BY R/SP/P
ON239	AMT PAY O-O-P OTHER HEALTH SERVICE
ON246	AMT PAY O-O-P OTHER HEALTH SERVICE- MIN
ON247	AMT PAY O-O-P OTHER HEALTH SERVICE- MAX
ON332	EX OTHER MEDICAL EXPENSES
ON333	EX PAY O-O-P OTHER MEDICAL
ON334	AMT PAY O-O-P OTHER MEDICAL - MIN
ON335	AMT PAY O-O-P OTHER MEDICAL - MAX
ON433_1	INSURANCE PAY ANY - -1
ON433_2	INSURANCE PAY ANY - -2
ON433_3	INSURANCE PAY ANY - -3
ON433_4	INSURANCE PAY ANY - -4
ON433_5	INSURANCE PAY ANY - -5
ON433_6	INSURANCE PAY ANY - -6
ON433_7	INSURANCE PAY ANY - -7
ON434_1	INSURANCE PAY ALL - -1
ON434_2	INSURANCE PAY ALL - -2
ON434_3	INSURANCE PAY ALL - -3
ON434_4	INSURANCE PAY ALL - -4
ON434_5	INSURANCE PAY ALL - -5
ON434_6	INSURANCE PAY ALL - -6
ON434_7	INSURANCE PAY ALL - -7
ON435_2	INSURANCE PAY HALF - -2



<b>Whether health limits work</b>
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Wave	Variable	Label	Type
1	R1HLTHLM	R1HLTHLM:W1 Hlth problems limit work	Categ
2	R2HLTHLM	R2HLTHLM:W2 Hlth problems limit work	Categ
3	R3HLTHLM	R3HLTHLM:W3 Hlth problems limit work	Categ
4	R4HLTHLM	R4HLTHLM:W4 Hlth problems limit work	Categ
5	R5HLTHLM	R5HLTHLM:W5 Hlth problems limit work	Categ
6	R6HLTHLM	R6HLTHLM:W6 Hlth problems limit work	Categ
7	R7HLTHLM	R7HLTHLM:W7 Hlth problems limit work	Categ
8	R8HLTHLM	R8HLTHLM:W8 Hlth problems limit work	Categ
9	R9HLTHLM	R9HLTHLM:W9 Hlth problems limit work	Categ
10	R10HLTHLM	R10HLTHLM:W10 Hlth problems limit work	Categ
11	R11HLTHLM	R11HLTHLM:W11 Hlth problems limit work	Categ
12	R12HLTHLM	R12HLTHLM:W12 Hlth problems limit work	Categ
1	S1HLTHLM	S1HLTHLM:W1 Hlth problems limit work	Categ
2	S2HLTHLM	S2HLTHLM:W2 Hlth problems limit work	Categ
3	S3HLTHLM	S3HLTHLM:W3 Hlth problems limit work	Categ
4	S4HLTHLM	S4HLTHLM:W4 Hlth problems limit work	Categ
5	S5HLTHLM	S5HLTHLM:W5 Hlth problems limit work	Categ
6	S6HLTHLM	S6HLTHLM:W6 Hlth problems limit work	Categ
7	S7HLTHLM	S7HLTHLM:W7 Hlth problems limit work	Categ
8	S8HLTHLM	S8HLTHLM:W8 Hlth problems limit work	Categ
9	S9HLTHLM	S9HLTHLM:W9 Hlth problems limit work	Categ
10	S10HLTHLM	S10HLTHLM:W10 Hlth problems limit work	Categ
11	S11HLTHLM	S11HLTHLM:W11 Hlth problems limit work	Categ
12	S12HLTHLM	S12HLTHLM:W12 Hlth problems limit work	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HLTHLM	12624	0.22	0.41	0.0	1.0
R2HLTHLM	11383	0.25	0.43	0.0	1.0
R3HLTHLM	10906	0.27	0.44	0.0	1.0
R4HLTHLM	21251	0.32	0.47	0.0	1.0
R5HLTHLM	19451	0.31	0.46	0.0	1.0
R6HLTHLM	18069	0.32	0.47	0.0	1.0
R7HLTHLM	13815	0.17	0.38	0.0	1.0
R8HLTHLM	16259	0.31	0.46	0.0	1.0
R9HLTHLM	15232	0.32	0.47	0.0	1.0
R10HLTHLM	20733	0.34	0.47	0.0	1.0
R11HLTHLM	19444	0.34	0.47	0.0	1.0
R12HLTHLM	17936	0.37	0.48	0.0	1.0
S1HLTHLM	9890	0.20	0.40	0.0	1.0
S2HLTHLM	8721	0.22	0.42	0.0	1.0
S3HLTHLM	8282	0.24	0.43	0.0	1.0
S4HLTHLM	13931	0.28	0.45	0.0	1.0
S5HLTHLM	12682	0.27	0.44	0.0	1.0
S6HLTHLM	11585	0.27	0.44	0.0	1.0
S7HLTHLM	9779	0.15	0.36	0.0	1.0
S8HLTHLM	10876	0.27	0.44	0.0	1.0
S9HLTHLM	9893	0.27	0.45	0.0	1.0
S10HLTHLM	12958	0.29	0.45	0.0	1.0
S11HLTHLM	12040	0.30	0.46	0.0	1.0
S12HLTHLM	10719	0.31	0.46	0.0	1.0

## Categorical Variable Codes

Value	R1HLTHLM	R2HLTHLM	R3HLTHLM	R4HLTHLM	R5HLTHLM	R6HLTHLM	R7HLTHLM
.D=DK/NA		14	12	53	53	50	48
.M=Oth missing		14	38	53	40	25	12
.Q=Not asked this wv		8222	7027				
.R=RF	28	9	8	27	35	21	14
.W=Not working							1376
.Y=Assumed yes							4864
0.No	9907	8557	8014	14482	13335	12312	11438
1.Yes	2717	2826	2892	6769	6116	5757	2377

Value	R8HLTHLM	R9HLTHLM	R10HLTHLM	R11HLTHLM	R12HLTHLM
.D=DK/NA	43	49	112	95	122
.M=Oth missing	10	11	232	27	33
.R=RF	8	10	32	31	32
.W=Not working	2147	1910	916	939	612
.Y=Assumed yes	2	5	9	18	12
0.No	11145	10385	13693	12801	11304
1.Yes	5114	4847	7040	6643	6632

Value	S1HLTHLM	S2HLTHLM	S3HLTHLM	S4HLTHLM	S5HLTHLM	S6HLTHLM	S7HLTHLM
.D=DK/NA		9	9	18	28	29	29
.M=Oth missing		2	11	15	8	16	2
.Q=Not asked this wv		4549	3704				
.R=RF	10	7	4	14	12	9	9
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	323	537	311	220	380
.W=Not working							559
.Y=Assumed yes							2594
0.No	7924	6773	6276	10096	9273	8470	8287
1.Yes	1966	1948	2006	3835	3409	3115	1492

Value	S8HLTHLM	S9HLTHLM	S10HLTHLM	S11HLTHLM	S12HLTHLM
.D=DK/NA	25	22	56	53	62
.M=Oth missing	2	2	133	6	13
.R=RF	4	4	20	15	12
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	828	723	342	369	220
.Y=Assumed yes		2	4	5	1
0.No	7918	7173	9214	8477	7352
1.Yes	2958	2720	3744	3563	3367

## How Constructed

RwHLTHLM indicates whether an impairment or health problem limits the kind or amount of paid work for the Respondent. SwHLTHLM is the same information for the Respondent's spouse or partner.

RwHLTHLM simply recodes the original HRS variable as a yes/no indicator and sets missing values to missing codes.

In Waves 2A and 3A, this question was not asked. So for the AHEAD Respondents, R2HLTHLM and R3HLTHLM are set to the .Q SAS special missing value, to indicate that no information is available.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S1HLTHLM is taken from the Wave 1 spouse's R1HLTHLM.

## Cross Wave Differences in Original HRS Data

In Waves 2A and 3A, the question about health affecting or limiting any work is not asked.

The question wording is the same in all other waves:

"Now I want to ask how your health affects paid work activities. Do you have any impairment or health problem that limits the kind or amount of paid work you can do?"

Beginning in Wave 4, the same question is asked in two sections. One is the disability section for re-interviewees, and one is the disability section for new interviewees.

In Wave 7, if re-interviewees have previously reported a health limitation, these questions are skipped and assigned ".Y=Assumed Yes." This skip pattern bypasses the Respondents that have previously reported a health limitation, but may no longer have a limitation. Beginning in Wave 7, "not working," recoded .W, is added as a possible answer.

## HRS Variables Used

HRS 1992:	
V4001	J1:HAVE DISABILITY
HRS 1994:	
W5200	J1.HEALTH PROBLEM THAT L
HRS 1996:	
E3507	GD1. HEALTH PROB
HRS 1998:	
F4017	GD1. HEALTH PROB
F4201	GJ1.HEALTH PROB
HRS 2000:	
G4307	GD1. HEALTH PROB
G4553	GJ1.HEALTH PROB
HRS 2002:	
HM002	HM002 HEALTH PROB
HM502	HEALTH PROB
HRS 2004:	
JM002	HM002 HEALTH PROB
JM502	HM502 HEALTH PROB
HRS 2006:	
KM002	HM002 HEALTH PROB
KM502	HM502 HEALTH PROB
HRS 2008:	
LM002	HM002 HEALTH PROB
LM502	HM502 HEALTH PROB
HRS 2010:	
MM002	HM002 HEALTH PROB
MM502	HM502 HEALTH PROB
HRS 2012:	
NM002	HM002 HEALTH PROB
NM502	HM502 HEALTH PROB
HRS 2014:	
OM002	HM002 HEALTH PROB
OM502	HM502 HEALTH PROB

### Activities of daily living (ADLs): Raw recodes

Wave	Variable	Label	Type
1	R1WALKR	R1WALKR:W1 R Diff-Walk across room	Categ
2	R2WALKR	R2WALKR:W2 R Diff-Walk across room	Categ
3	R3WALKR	R3WALKR:W3 R Diff-Walk across room	Categ
4	R4WALKR	R4WALKR:W4 R Diff-Walk across room	Categ
5	R5WALKR	R5WALKR:W5 R Diff-Walk across room	Categ
6	R6WALKR	R6WALKR:W6 R Diff-Walk across room	Categ
7	R7WALKR	R7WALKR:W7 R Diff-Walk across room	Categ
8	R8WALKR	R8WALKR:W8 R Diff-Walk across room	Categ
9	R9WALKR	R9WALKR:W9 R Diff-Walk across room	Categ
10	R10WALKR	R10WALKR:W10 R Diff-Walk across room	Categ
11	R11WALKR	R11WALKR:W11 R Diff-Walk across room	Categ
12	R12WALKR	R12WALKR:W12 R Diff-Walk across room	Categ
1	S1WALKR	S1WALKR:W1 S Diff-Walk across room	Categ
2	S2WALKR	S2WALKR:W2 S Diff-Walk across room	Categ
3	S3WALKR	S3WALKR:W3 S Diff-Walk across room	Categ
4	S4WALKR	S4WALKR:W4 S Diff-Walk across room	Categ
5	S5WALKR	S5WALKR:W5 S Diff-Walk across room	Categ
6	S6WALKR	S6WALKR:W6 S Diff-Walk across room	Categ
7	S7WALKR	S7WALKR:W7 S Diff-Walk across room	Categ
8	S8WALKR	S8WALKR:W8 S Diff-Walk across room	Categ
9	S9WALKR	S9WALKR:W9 S Diff-Walk across room	Categ
10	S10WALKR	S10WALKR:W10 S Diff-Walk across room	Categ
11	S11WALKR	S11WALKR:W11 S Diff-Walk across room	Categ
12	S12WALKR	S12WALKR:W12 S Diff-Walk across room	Categ
2	R2WALKRH	R2WALKRH:W2 R Gets Help-Walk across room	Categ
3	R3WALKRH	R3WALKRH:W3 R Gets Help-Walk across room	Categ
4	R4WALKRH	R4WALKRH:W4 R Gets Help-Walk across room	Categ
5	R5WALKRH	R5WALKRH:W5 R Gets Help-Walk across room	Categ
6	R6WALKRH	R6WALKRH:W6 R Gets Help-Walk across room	Categ
7	R7WALKRH	R7WALKRH:W7 R Gets Help-Walk across room	Categ
8	R8WALKRH	R8WALKRH:W8 R Gets Help-Walk across room	Categ
9	R9WALKRH	R9WALKRH:W9 R Gets Help-Walk across room	Categ
10	R10WALKRH	R10WALKRH:W10 R Gets Help-Walk across room	Categ
11	R11WALKRH	R11WALKRH:W11 R Gets Help-Walk across room	Categ
12	R12WALKRH	R12WALKRH:W12 R Gets Help-Walk across room	Categ
2	S2WALKRH	S2WALKRH:W2 S Gets Help-Walk across room	Categ
3	S3WALKRH	S3WALKRH:W3 S Gets Help-Walk across room	Categ
4	S4WALKRH	S4WALKRH:W4 S Gets Help-Walk across room	Categ
5	S5WALKRH	S5WALKRH:W5 S Gets Help-Walk across room	Categ
6	S6WALKRH	S6WALKRH:W6 S Gets Help-Walk across room	Categ
7	S7WALKRH	S7WALKRH:W7 S Gets Help-Walk across room	Categ
8	S8WALKRH	S8WALKRH:W8 S Gets Help-Walk across room	Categ
9	S9WALKRH	S9WALKRH:W9 S Gets Help-Walk across room	Categ
10	S10WALKRH	S10WALKRH:W10 S Gets Help-Walk across room	Categ
11	S11WALKRH	S11WALKRH:W11 S Gets Help-Walk across room	Categ
12	S12WALKRH	S12WALKRH:W12 S Gets Help-Walk across room	Categ
2	R2WALKRE	R2WALKRE:W2 R Eqp-Walk across room	Categ
3	R3WALKRE	R3WALKRE:W3 R Eqp-Walk across room	Categ
4	R4WALKRE	R4WALKRE:W4 R Eqp-Walk across room	Categ
5	R5WALKRE	R5WALKRE:W5 R Eqp-Walk across room	Categ
6	R6WALKRE	R6WALKRE:W6 R Eqp-Walk across room	Categ
7	R7WALKRE	R7WALKRE:W7 R Eqp-Walk across room	Categ
8	R8WALKRE	R8WALKRE:W8 R Eqp-Walk across room	Categ
9	R9WALKRE	R9WALKRE:W9 R Eqp-Walk across room	Categ
10	R10WALKRE	R10WALKRE:W10 R Eqp-Walk across room	Categ
11	R11WALKRE	R11WALKRE:W11 R Eqp-Walk across room	Categ
12	R12WALKRE	R12WALKRE:W12 R Eqp-Walk across room	Categ
2	S2WALKRE	S2WALKRE:W2 S Eqp-Walk across room	Categ
3	S3WALKRE	S3WALKRE:W3 S Eqp-Walk across room	Categ
4	S4WALKRE	S4WALKRE:W4 S Eqp-Walk across room	Categ
5	S5WALKRE	S5WALKRE:W5 S Eqp-Walk across room	Categ

6	S6WALKRE	S6WALKRE:W6 S Eqp-Walk across room	Categ
7	S7WALKRE	S7WALKRE:W7 S Eqp-Walk across room	Categ
8	S8WALKRE	S8WALKRE:W8 S Eqp-Walk across room	Categ
9	S9WALKRE	S9WALKRE:W9 S Eqp-Walk across room	Categ
10	S10WALKRE	S10WALKRE:W10 S Eqp-Walk across room	Categ
11	S11WALKRE	S11WALKRE:W11 S Eqp-Walk across room	Categ
12	S12WALKRE	S12WALKRE:W12 S Eqp-Walk across room	Categ
1	R1DRESS	R1DRESS:W1 R Diff-Dressing	Categ
2	R2DRESS	R2DRESS:W2 R Diff-Dressing	Categ
3	R3DRESS	R3DRESS:W3 R Diff-Dressing	Categ
4	R4DRESS	R4DRESS:W4 R Diff-Dressing	Categ
5	R5DRESS	R5DRESS:W5 R Diff-Dressing	Categ
6	R6DRESS	R6DRESS:W6 R Diff-Dressing	Categ
7	R7DRESS	R7DRESS:W7 R Diff-Dressing	Categ
8	R8DRESS	R8DRESS:W8 R Diff-Dressing	Categ
9	R9DRESS	R9DRESS:W9 R Diff-Dressing	Categ
10	R10DRESS	R10DRESS:W10 R Diff-Dressing	Categ
11	R11DRESS	R11DRESS:W11 R Diff-Dressing	Categ
12	R12DRESS	R12DRESS:W12 R Diff-Dressing	Categ
1	S1DRESS	S1DRESS:W1 S Diff-Dressing	Categ
2	S2DRESS	S2DRESS:W2 S Diff-Dressing	Categ
3	S3DRESS	S3DRESS:W3 S Diff-Dressing	Categ
4	S4DRESS	S4DRESS:W4 S Diff-Dressing	Categ
5	S5DRESS	S5DRESS:W5 S Diff-Dressing	Categ
6	S6DRESS	S6DRESS:W6 S Diff-Dressing	Categ
7	S7DRESS	S7DRESS:W7 S Diff-Dressing	Categ
8	S8DRESS	S8DRESS:W8 S Diff-Dressing	Categ
9	S9DRESS	S9DRESS:W9 S Diff-Dressing	Categ
10	S10DRESS	S10DRESS:W10 S Diff-Dressing	Categ
11	S11DRESS	S11DRESS:W11 S Diff-Dressing	Categ
12	S12DRESS	S12DRESS:W12 S Diff-Dressing	Categ
2	R2DRESSH	R2DRESSH:W2 R Gets Help-Dressing	Categ
3	R3DRESSH	R3DRESSH:W3 R Gets Help-Dressing	Categ
4	R4DRESSH	R4DRESSH:W4 R Gets Help-Dressing	Categ
5	R5DRESSH	R5DRESSH:W5 R Gets Help-Dressing	Categ
6	R6DRESSH	R6DRESSH:W6 R Gets Help-Dressing	Categ
7	R7DRESSH	R7DRESSH:W7 R Gets Help-Dressing	Categ
8	R8DRESSH	R8DRESSH:W8 R Gets Help-Dressing	Categ
9	R9DRESSH	R9DRESSH:W9 R Gets Help-Dressing	Categ
10	R10DRESSH	R10DRESSH:W10 R Gets Help-Dressing	Categ
11	R11DRESSH	R11DRESSH:W11 R Gets Help-Dressing	Categ
12	R12DRESSH	R12DRESSH:W12 R Gets Help-Dressing	Categ
2	S2DRESSH	S2DRESSH:W2 S Gets Help-Dressing	Categ
3	S3DRESSH	S3DRESSH:W3 S Gets Help-Dressing	Categ
4	S4DRESSH	S4DRESSH:W4 S Gets Help-Dressing	Categ
5	S5DRESSH	S5DRESSH:W5 S Gets Help-Dressing	Categ
6	S6DRESSH	S6DRESSH:W6 S Gets Help-Dressing	Categ
7	S7DRESSH	S7DRESSH:W7 S Gets Help-Dressing	Categ
8	S8DRESSH	S8DRESSH:W8 S Gets Help-Dressing	Categ
9	S9DRESSH	S9DRESSH:W9 S Gets Help-Dressing	Categ
10	S10DRESSH	S10DRESSH:W10 S Gets Help-Dressing	Categ
11	S11DRESSH	S11DRESSH:W11 S Gets Help-Dressing	Categ
12	S12DRESSH	S12DRESSH:W12 S Gets Help-Dressing	Categ
1	R1BATH	R1BATH:W1 R Diff-Bathing or showerng	Categ
2	R2BATH	R2BATH:W2 R Diff-Bathing or showerng	Categ
3	R3BATH	R3BATH:W3 R Diff-Bathing or showerng	Categ
4	R4BATH	R4BATH:W4 R Diff-Bathing or showerng	Categ
5	R5BATH	R5BATH:W5 R Diff-Bathing or showerng	Categ
6	R6BATH	R6BATH:W6 R Diff-Bathing or showerng	Categ
7	R7BATH	R7BATH:W7 R Diff-Bathing or showerng	Categ
8	R8BATH	R8BATH:W8 R Diff-Bathing or showerng	Categ
9	R9BATH	R9BATH:W9 R Diff-Bathing or showerng	Categ
10	R10BATH	R10BATH:W10 R Diff-Bathing or showerng	Categ
11	R11BATH	R11BATH:W11 R Diff-Bathing or showerng	Categ
12	R12BATH	R12BATH:W12 R Diff-Bathing or showerng	Categ
1	S1BATH	S1BATH:W1 S Diff-Bathing or showerng	Categ

2	S2BATH	S2BATH:W2 S Diff-Bathing or showerng	Categ
3	S3BATH	S3BATH:W3 S Diff-Bathing or showerng	Categ
4	S4BATH	S4BATH:W4 S Diff-Bathing or showerng	Categ
5	S5BATH	S5BATH:W5 S Diff-Bathing or showerng	Categ
6	S6BATH	S6BATH:W6 S Diff-Bathing or showerng	Categ
7	S7BATH	S7BATH:W7 S Diff-Bathing or showerng	Categ
8	S8BATH	S8BATH:W8 S Diff-Bathing or showerng	Categ
9	S9BATH	S9BATH:W9 S Diff-Bathing or showerng	Categ
10	S10BATH	S10BATH:W10 S Diff-Bathing or showerng	Categ
11	S11BATH	S11BATH:W11 S Diff-Bathing or showerng	Categ
12	S12BATH	S12BATH:W12 S Diff-Bathing or showerng	Categ
2	R2BATHH	R2BATHH:W2 R Gets Help-Bathing, showerng	Categ
3	R3BATHH	R3BATHH:W3 R Gets Help-Bathing, showerng	Categ
4	R4BATHH	R4BATHH:W4 R Gets Help-Bathing, showerng	Categ
5	R5BATHH	R5BATHH:W5 R Gets Help-Bathing, showerng	Categ
6	R6BATHH	R6BATHH:W6 R Gets Help-Bathing, showerng	Categ
7	R7BATHH	R7BATHH:W7 R Gets Help-Bathing, showerng	Categ
8	R8BATHH	R8BATHH:W8 R Gets Help-Bathing, showerng	Categ
9	R9BATHH	R9BATHH:W9 R Gets Help-Bathing, showerng	Categ
10	R10BATHH	R10BATHH:W10 R Gets Help-Bathing, showerng	Categ
11	R11BATHH	R11BATHH:W11 R Gets Help-Bathing, showerng	Categ
12	R12BATHH	R12BATHH:W12 R Gets Help-Bathing, showerng	Categ
2	S2BATHH	S2BATHH:W2 S Gets Help-Bathing, showerng	Categ
3	S3BATHH	S3BATHH:W3 S Gets Help-Bathing, showerng	Categ
4	S4BATHH	S4BATHH:W4 S Gets Help-Bathing, showerng	Categ
5	S5BATHH	S5BATHH:W5 S Gets Help-Bathing, showerng	Categ
6	S6BATHH	S6BATHH:W6 S Gets Help-Bathing, showerng	Categ
7	S7BATHH	S7BATHH:W7 S Gets Help-Bathing, showerng	Categ
8	S8BATHH	S8BATHH:W8 S Gets Help-Bathing, showerng	Categ
9	S9BATHH	S9BATHH:W9 S Gets Help-Bathing, showerng	Categ
10	S10BATHH	S10BATHH:W10 S Gets Help-Bathing, showerng	Categ
11	S11BATHH	S11BATHH:W11 S Gets Help-Bathing, showerng	Categ
12	S12BATHH	S12BATHH:W12 S Gets Help-Bathing, showerng	Categ
1	R1EAT	R1EAT:W1 R Diff-Eating	Categ
2	R2EAT	R2EAT:W2 R Diff-Eating	Categ
3	R3EAT	R3EAT:W3 R Diff-Eating	Categ
4	R4EAT	R4EAT:W4 R Diff-Eating	Categ
5	R5EAT	R5EAT:W5 R Diff-Eating	Categ
6	R6EAT	R6EAT:W6 R Diff-Eating	Categ
7	R7EAT	R7EAT:W7 R Diff-Eating	Categ
8	R8EAT	R8EAT:W8 R Diff-Eating	Categ
9	R9EAT	R9EAT:W9 R Diff-Eating	Categ
10	R10EAT	R10EAT:W10 R Diff-Eating	Categ
11	R11EAT	R11EAT:W11 R Diff-Eating	Categ
12	R12EAT	R12EAT:W12 R Diff-Eating	Categ
1	S1EAT	S1EAT:W1 S Diff-Eating	Categ
2	S2EAT	S2EAT:W2 S Diff-Eating	Categ
3	S3EAT	S3EAT:W3 S Diff-Eating	Categ
4	S4EAT	S4EAT:W4 S Diff-Eating	Categ
5	S5EAT	S5EAT:W5 S Diff-Eating	Categ
6	S6EAT	S6EAT:W6 S Diff-Eating	Categ
7	S7EAT	S7EAT:W7 S Diff-Eating	Categ
8	S8EAT	S8EAT:W8 S Diff-Eating	Categ
9	S9EAT	S9EAT:W9 S Diff-Eating	Categ
10	S10EAT	S10EAT:W10 S Diff-Eating	Categ
11	S11EAT	S11EAT:W11 S Diff-Eating	Categ
12	S12EAT	S12EAT:W12 S Diff-Eating	Categ
2	R2EATH	R2EATH:W2 R Gets Help-Eating	Categ
3	R3EATH	R3EATH:W3 R Gets Help-Eating	Categ
4	R4EATH	R4EATH:W4 R Gets Help-Eating	Categ
5	R5EATH	R5EATH:W5 R Gets Help-Eating	Categ
6	R6EATH	R6EATH:W6 R Gets Help-Eating	Categ
7	R7EATH	R7EATH:W7 R Gets Help-Eating	Categ
8	R8EATH	R8EATH:W8 R Gets Help-Eating	Categ
9	R9EATH	R9EATH:W9 R Gets Help-Eating	Categ
10	R10EATH	R10EATH:W10 R Gets Help-Eating	Categ
11	R11EATH	R11EATH:W11 R Gets Help-Eating	Categ

12	R12EATH	R12EATH:W12 R Gets Help-Eating	Categ
2	S2EATH	S2EATH:W2 S Gets Help-Eating	Categ
3	S3EATH	S3EATH:W3 S Gets Help-Eating	Categ
4	S4EATH	S4EATH:W4 S Gets Help-Eating	Categ
5	S5EATH	S5EATH:W5 S Gets Help-Eating	Categ
6	S6EATH	S6EATH:W6 S Gets Help-Eating	Categ
7	S7EATH	S7EATH:W7 S Gets Help-Eating	Categ
8	S8EATH	S8EATH:W8 S Gets Help-Eating	Categ
9	S9EATH	S9EATH:W9 S Gets Help-Eating	Categ
10	S10EATH	S10EATH:W10 S Gets Help-Eating	Categ
11	S11EATH	S11EATH:W11 S Gets Help-Eating	Categ
12	S12EATH	S12EATH:W12 S Gets Help-Eating	Categ
1	R1BED	R1BED:W1 R Diff-Get in/out of bed	Categ
2	R2BED	R2BED:W2 R Diff-Get in/out of bed	Categ
3	R3BED	R3BED:W3 R Diff-Get in/out of bed	Categ
4	R4BED	R4BED:W4 R Diff-Get in/out of bed	Categ
5	R5BED	R5BED:W5 R Diff-Get in/out of bed	Categ
6	R6BED	R6BED:W6 R Diff-Get in/out of bed	Categ
7	R7BED	R7BED:W7 R Diff-Get in/out of bed	Categ
8	R8BED	R8BED:W8 R Diff-Get in/out of bed	Categ
9	R9BED	R9BED:W9 R Diff-Get in/out of bed	Categ
10	R10BED	R10BED:W10 R Diff-Get in/out of bed	Categ
11	R11BED	R11BED:W11 R Diff-Get in/out of bed	Categ
12	R12BED	R12BED:W12 R Diff-Get in/out of bed	Categ
1	S1BED	S1BED:W1 S Diff-Get in/out of bed	Categ
2	S2BED	S2BED:W2 S Diff-Get in/out of bed	Categ
3	S3BED	S3BED:W3 S Diff-Get in/out of bed	Categ
4	S4BED	S4BED:W4 S Diff-Get in/out of bed	Categ
5	S5BED	S5BED:W5 S Diff-Get in/out of bed	Categ
6	S6BED	S6BED:W6 S Diff-Get in/out of bed	Categ
7	S7BED	S7BED:W7 S Diff-Get in/out of bed	Categ
8	S8BED	S8BED:W8 S Diff-Get in/out of bed	Categ
9	S9BED	S9BED:W9 S Diff-Get in/out of bed	Categ
10	S10BED	S10BED:W10 S Diff-Get in/out of bed	Categ
11	S11BED	S11BED:W11 S Diff-Get in/out of bed	Categ
12	S12BED	S12BED:W12 S Diff-Get in/out of bed	Categ
2	R2BEDH	R2BEDH:W2 R Gets Help-Get in/out of bed	Categ
3	R3BEDH	R3BEDH:W3 R Gets Help-Get in/out of bed	Categ
4	R4BEDH	R4BEDH:W4 R Gets Help-Get in/out of bed	Categ
5	R5BEDH	R5BEDH:W5 R Gets Help-Get in/out of bed	Categ
6	R6BEDH	R6BEDH:W6 R Gets Help-Get in/out of bed	Categ
7	R7BEDH	R7BEDH:W7 R Gets Help-Get in/out of bed	Categ
8	R8BEDH	R8BEDH:W8 R Gets Help-Get in/out of bed	Categ
9	R9BEDH	R9BEDH:W9 R Gets Help-Get in/out of bed	Categ
10	R10BEDH	R10BEDH:W10 R Gets Help-Get in/out of bed	Categ
11	R11BEDH	R11BEDH:W11 R Gets Help-Get in/out of bed	Categ
12	R12BEDH	R12BEDH:W12 R Gets Help-Get in/out of bed	Categ
2	S2BEDH	S2BEDH:W2 S Gets Help-Get in/out of bed	Categ
3	S3BEDH	S3BEDH:W3 S Gets Help-Get in/out of bed	Categ
4	S4BEDH	S4BEDH:W4 S Gets Help-Get in/out of bed	Categ
5	S5BEDH	S5BEDH:W5 S Gets Help-Get in/out of bed	Categ
6	S6BEDH	S6BEDH:W6 S Gets Help-Get in/out of bed	Categ
7	S7BEDH	S7BEDH:W7 S Gets Help-Get in/out of bed	Categ
8	S8BEDH	S8BEDH:W8 S Gets Help-Get in/out of bed	Categ
9	S9BEDH	S9BEDH:W9 S Gets Help-Get in/out of bed	Categ
10	S10BEDH	S10BEDH:W10 S Gets Help-Get in/out of bed	Categ
11	S11BEDH	S11BEDH:W11 S Gets Help-Get in/out of bed	Categ
12	S12BEDH	S12BEDH:W12 S Gets Help-Get in/out of bed	Categ
2	R2BEDE	R2BEDE:W2 R Use Eqp-Get in/out of bed	Categ
3	R3BEDE	R3BEDE:W3 R Use Eqp-Get in/out of bed	Categ
4	R4BEDE	R4BEDE:W4 R Use Eqp-Get in/out of bed	Categ
5	R5BEDE	R5BEDE:W5 R Use Eqp-Get in/out of bed	Categ
6	R6BEDE	R6BEDE:W6 R Use Eqp-Get in/out of bed	Categ
7	R7BEDE	R7BEDE:W7 R Use Eqp-Get in/out of bed	Categ
8	R8BEDE	R8BEDE:W8 R Use Eqp-Get in/out of bed	Categ
9	R9BEDE	R9BEDE:W9 R Use Eqp-Get in/out of bed	Categ

10	R10BEDE	R10BEDE:W10 R Use Eqp-Get in/out of bed	Categ
11	R11BEDE	R11BEDE:W11 R Use Eqp-Get in/out of bed	Categ
12	R12BEDE	R12BEDE:W12 R Use Eqp-Get in/out of bed	Categ
2	S2BEDE	S2BEDE:W2 S Use Eqp-Get in/out of bed	Categ
3	S3BEDE	S3BEDE:W3 S Use Eqp-Get in/out of bed	Categ
4	S4BEDE	S4BEDE:W4 S Use Eqp-Get in/out of bed	Categ
5	S5BEDE	S5BEDE:W5 S Use Eqp-Get in/out of bed	Categ
6	S6BEDE	S6BEDE:W6 S Use Eqp-Get in/out of bed	Categ
7	S7BEDE	S7BEDE:W7 S Use Eqp-Get in/out of bed	Categ
8	S8BEDE	S8BEDE:W8 S Use Eqp-Get in/out of bed	Categ
9	S9BEDE	S9BEDE:W9 S Use Eqp-Get in/out of bed	Categ
10	S10BEDE	S10BEDE:W10 S Use Eqp-Get in/out of bed	Categ
11	S11BEDE	S11BEDE:W11 S Use Eqp-Get in/out of bed	Categ
12	S12BEDE	S12BEDE:W12 S Use Eqp-Get in/out of bed	Categ
2	R2TOILT	R2TOILT:W2 R Diff-Using the toilet	Categ
3	R3TOILT	R3TOILT:W3 R Diff-Using the toilet	Categ
4	R4TOILT	R4TOILT:W4 R Diff-Using the toilet	Categ
5	R5TOILT	R5TOILT:W5 R Diff-Using the toilet	Categ
6	R6TOILT	R6TOILT:W6 R Diff-Using the toilet	Categ
7	R7TOILT	R7TOILT:W7 R Diff-Using the toilet	Categ
8	R8TOILT	R8TOILT:W8 R Diff-Using the toilet	Categ
9	R9TOILT	R9TOILT:W9 R Diff-Using the toilet	Categ
10	R10TOILT	R10TOILT:W10 R Diff-Using the toilet	Categ
11	R11TOILT	R11TOILT:W11 R Diff-Using the toilet	Categ
12	R12TOILT	R12TOILT:W12 R Diff-Using the toilet	Categ
2	S2TOILT	S2TOILT:W2 S Diff-Using the toilet	Categ
3	S3TOILT	S3TOILT:W3 S Diff-Using the toilet	Categ
4	S4TOILT	S4TOILT:W4 S Diff-Using the toilet	Categ
5	S5TOILT	S5TOILT:W5 S Diff-Using the toilet	Categ
6	S6TOILT	S6TOILT:W6 S Diff-Using the toilet	Categ
7	S7TOILT	S7TOILT:W7 S Diff-Using the toilet	Categ
8	S8TOILT	S8TOILT:W8 S Diff-Using the toilet	Categ
9	S9TOILT	S9TOILT:W9 S Diff-Using the toilet	Categ
10	S10TOILT	S10TOILT:W10 S Diff-Using the toilet	Categ
11	S11TOILT	S11TOILT:W11 S Diff-Using the toilet	Categ
12	S12TOILT	S12TOILT:W12 S Diff-Using the toilet	Categ
2	R2TOILTH	R2TOILTH:W2 R Gets Help-Using the toilet	Categ
3	R3TOILTH	R3TOILTH:W3 R Gets Help-Using the toilet	Categ
4	R4TOILTH	R4TOILTH:W4 R Gets Help-Using the toilet	Categ
5	R5TOILTH	R5TOILTH:W5 R Gets Help-Using the toilet	Categ
6	R6TOILTH	R6TOILTH:W6 R Gets Help-Using the toilet	Categ
7	R7TOILTH	R7TOILTH:W7 R Gets Help-Using the toilet	Categ
8	R8TOILTH	R8TOILTH:W8 R Gets Help-Using the toilet	Categ
9	R9TOILTH	R9TOILTH:W9 R Gets Help-Using the toilet	Categ
10	R10TOILTH	R10TOILTH:W10 R Gets Help-Using the toilet	Categ
11	R11TOILTH	R11TOILTH:W11 R Gets Help-Using the toilet	Categ
12	R12TOILTH	R12TOILTH:W12 R Gets Help-Using the toilet	Categ
2	S2TOILTH	S2TOILTH:W2 S Gets Help-Using the toilet	Categ
3	S3TOILTH	S3TOILTH:W3 S Gets Help-Using the toilet	Categ
4	S4TOILTH	S4TOILTH:W4 S Gets Help-Using the toilet	Categ
5	S5TOILTH	S5TOILTH:W5 S Gets Help-Using the toilet	Categ
6	S6TOILTH	S6TOILTH:W6 S Gets Help-Using the toilet	Categ
7	S7TOILTH	S7TOILTH:W7 S Gets Help-Using the toilet	Categ
8	S8TOILTH	S8TOILTH:W8 S Gets Help-Using the toilet	Categ
9	S9TOILTH	S9TOILTH:W9 S Gets Help-Using the toilet	Categ
10	S10TOILTH	S10TOILTH:W10 S Gets Help-Using the toilet	Categ
11	S11TOILTH	S11TOILTH:W11 S Gets Help-Using the toilet	Categ
12	S12TOILTH	S12TOILTH:W12 S Gets Help-Using the toilet	Categ



## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKR	12652	1.08	0.46	1.0	9.0
R2WALKR	19286	0.11	0.49	0.0	9.0
R3WALKR	17950	0.09	0.42	0.0	9.0
R4WALKR	21355	0.09	0.45	0.0	9.0
R5WALKR	19548	0.10	0.52	0.0	9.0
R6WALKR	18155	0.11	0.49	0.0	9.0
R7WALKR	20117	0.10	0.46	0.0	9.0
R8WALKR	18458	0.10	0.46	0.0	9.0
R9WALKR	17206	0.11	0.51	0.0	9.0
R10WALKR	21898	0.09	0.40	0.0	9.0
R11WALKR	20519	0.09	0.36	0.0	9.0
R12WALKR	18715	0.10	0.39	0.0	9.0
S1WALKR	9900	1.07	0.44	1.0	9.0
S2WALKR	12818	0.07	0.42	0.0	9.0
S3WALKR	11903	0.06	0.37	0.0	9.0
S4WALKR	13970	0.06	0.36	0.0	9.0
S5WALKR	12721	0.06	0.36	0.0	9.0
S6WALKR	11635	0.07	0.38	0.0	9.0
S7WALKR	12969	0.06	0.36	0.0	9.0
S8WALKR	11734	0.06	0.33	0.0	9.0
S9WALKR	10644	0.07	0.39	0.0	9.0
S10WALKR	13432	0.06	0.34	0.0	9.0
S11WALKR	12475	0.06	0.31	0.0	9.0
S12WALKR	11019	0.06	0.25	0.0	9.0
R2WALKRH	8221	0.14	0.68	0.0	9.0
R3WALKRH	1342	0.43	0.49	0.0	1.0
R4WALKRH	1567	0.40	0.49	0.0	1.0
R5WALKRH	1531	0.41	0.49	0.0	1.0
R6WALKRH	1527	0.43	0.50	0.0	1.0
R7WALKRH	1548	0.44	0.50	0.0	2.0
R8WALKRH	1535	0.42	0.49	0.0	1.0
R9WALKRH	1488	0.43	0.50	0.0	1.0
R10WALKRH	1788	0.51	0.50	0.0	1.0
R11WALKRH	1682	0.51	0.50	0.0	1.0
R12WALKRH	1632	0.52	0.50	0.0	1.0
S2WALKRH	4348	0.12	0.66	0.0	9.0
S3WALKRH	590	0.41	0.49	0.0	1.0
S4WALKRH	643	0.42	0.49	0.0	1.0
S5WALKRH	653	0.42	0.49	0.0	1.0
S6WALKRH	636	0.42	0.49	0.0	1.0
S7WALKRH	642	0.44	0.50	0.0	2.0
S8WALKRH	633	0.43	0.50	0.0	1.0
S9WALKRH	554	0.43	0.50	0.0	1.0
S10WALKRH	717	0.52	0.50	0.0	1.0
S11WALKRH	695	0.50	0.50	0.0	1.0
S12WALKRH	626	0.52	0.50	0.0	1.0
R2WALKRE	8221	0.20	0.59	0.0	9.0
R3WALKRE	11612	0.17	0.38	0.0	1.0
R4WALKRE	10330	0.22	0.42	0.0	1.0
R5WALKRE	9722	0.24	0.43	0.0	1.0
R6WALKRE	9574	0.26	0.44	0.0	1.0
R7WALKRE	10283	0.25	0.43	0.0	1.0

R8WALKRE	9846	0.26	0.44	0.0	1.0
R9WALKRE	9229	0.27	0.45	0.0	1.0
R10WALKRE	11083	0.27	0.45	0.0	1.0
R11WALKRE	10316	0.30	0.46	0.0	1.0
R12WALKRE	9702	0.32	0.47	0.0	1.0
S2WALKRE	4348	0.15	0.57	0.0	9.0
S3WALKRE	7143	0.12	0.32	0.0	1.0
S4WALKRE	5977	0.16	0.37	0.0	1.0
S5WALKRE	5601	0.17	0.37	0.0	1.0
S6WALKRE	5431	0.19	0.39	0.0	1.0
S7WALKRE	5849	0.18	0.39	0.0	1.0
S8WALKRE	5523	0.18	0.39	0.0	1.0
S9WALKRE	5021	0.19	0.39	0.0	1.0
S10WALKRE	6043	0.21	0.40	0.0	1.0
S11WALKRE	5535	0.23	0.42	0.0	1.0
S12WALKRE	4996	0.25	0.43	0.0	1.0
R1DRESS	12652	1.05	0.33	1.0	9.0
R2DRESS	19638	0.08	0.39	0.0	9.0
R3DRESS	17950	0.12	0.43	0.0	9.0
R4DRESS	21353	0.12	0.46	0.0	9.0
R5DRESS	19549	0.13	0.54	0.0	9.0
R6DRESS	18153	0.13	0.49	0.0	9.0
R7DRESS	20115	0.12	0.47	0.0	9.0
R8DRESS	18453	0.13	0.48	0.0	9.0
R9DRESS	17207	0.13	0.50	0.0	9.0
R10DRESS	21899	0.13	0.41	0.0	9.0
R11DRESS	20523	0.12	0.40	0.0	9.0
R12DRESS	18721	0.13	0.40	0.0	9.0
S1DRESS	9900	1.04	0.31	1.0	9.0
S2DRESS	13087	0.05	0.34	0.0	9.0
S3DRESS	11903	0.09	0.38	0.0	9.0
S4DRESS	13970	0.09	0.40	0.0	9.0
S5DRESS	12723	0.10	0.40	0.0	9.0
S6DRESS	11635	0.09	0.37	0.0	9.0
S7DRESS	12970	0.08	0.37	0.0	9.0
S8DRESS	11733	0.10	0.37	0.0	9.0
S9DRESS	10644	0.10	0.43	0.0	9.0
S10DRESS	13434	0.09	0.33	0.0	9.0
S11DRESS	12480	0.09	0.35	0.0	9.0
S12DRESS	11020	0.10	0.35	0.0	9.0
R2DRESSH	8221	0.19	0.73	0.0	9.0
R3DRESSH	1883	0.52	0.50	0.0	1.0
R4DRESSH	2196	0.53	0.50	0.0	1.0
R5DRESSH	2095	0.53	0.50	0.0	1.0
R6DRESSH	1939	0.56	0.50	0.0	1.0
R7DRESSH	2009	0.57	0.50	0.0	1.0
R8DRESSH	2060	0.55	0.50	0.0	1.0
R9DRESSH	1938	0.55	0.50	0.0	1.0
R10DRESSH	2573	0.57	0.50	0.0	1.0
R11DRESSH	2318	0.59	0.49	0.0	1.0
R12DRESSH	2317	0.58	0.49	0.0	1.0
S2DRESSH	4348	0.18	0.73	0.0	9.0
S3DRESSH	953	0.55	0.50	0.0	1.0
S4DRESSH	1116	0.53	0.50	0.0	1.0

S5DRESSH	1061	0.52	0.50	0.0	1.0
S6DRESSH	930	0.57	0.50	0.0	1.0
S7DRESSH	977	0.58	0.49	0.0	1.0
S8DRESSH	1015	0.57	0.50	0.0	1.0
S9DRESSH	881	0.54	0.50	0.0	1.0
S10DRESSH	1225	0.59	0.49	0.0	1.0
S11DRESSH	1063	0.59	0.49	0.0	1.0
S12DRESSH	1054	0.59	0.49	0.0	1.0
R1BATH	12652	1.08	0.47	1.0	9.0
R2BATH	19634	0.08	0.39	0.0	9.0
R3BATH	17950	0.09	0.43	0.0	9.0
R4BATH	21350	0.10	0.44	0.0	9.0
R5BATH	19551	0.10	0.49	0.0	9.0
R6BATH	18154	0.11	0.48	0.0	9.0
R7BATH	20112	0.10	0.45	0.0	9.0
R8BATH	18455	0.10	0.44	0.0	9.0
R9BATH	17207	0.10	0.44	0.0	9.0
R10BATH	21897	0.09	0.36	0.0	9.0
R11BATH	20525	0.09	0.36	0.0	9.0
R12BATH	18720	0.10	0.38	0.0	9.0
S1BATH	9900	1.06	0.41	1.0	9.0
S2BATH	13084	0.05	0.30	0.0	9.0
S3BATH	11903	0.06	0.31	0.0	9.0
S4BATH	13969	0.06	0.33	0.0	9.0
S5BATH	12724	0.06	0.33	0.0	9.0
S6BATH	11635	0.06	0.33	0.0	9.0
S7BATH	12969	0.06	0.34	0.0	9.0
S8BATH	11732	0.06	0.28	0.0	9.0
S9BATH	10644	0.06	0.34	0.0	9.0
S10BATH	13432	0.06	0.28	0.0	9.0
S11BATH	12481	0.06	0.29	0.0	9.0
S12BATH	11020	0.06	0.26	0.0	9.0
R2BATHH	8219	0.23	0.80	0.0	9.0
R3BATHH	1390	0.65	0.48	0.0	1.0
R4BATHH	1758	0.60	0.49	0.0	1.0
R5BATHH	1617	0.64	0.48	0.0	1.0
R6BATHH	1549	0.69	0.46	0.0	1.0
R7BATHH	1599	0.66	0.47	0.0	1.0
R8BATHH	1530	0.65	0.48	0.0	1.0
R9BATHH	1497	0.66	0.47	0.0	1.0
R10BATHH	1873	0.64	0.48	0.0	1.0
R11BATHH	1794	0.65	0.48	0.0	1.0
R12BATHH	1732	0.64	0.48	0.0	1.0
S2BATHH	4347	0.17	0.69	0.0	9.0
S3BATHH	567	0.63	0.48	0.0	1.0
S4BATHH	727	0.58	0.49	0.0	1.0
S5BATHH	637	0.62	0.49	0.0	1.0
S6BATHH	588	0.68	0.47	0.0	1.0
S7BATHH	617	0.64	0.48	0.0	1.0
S8BATHH	593	0.65	0.48	0.0	1.0
S9BATHH	537	0.61	0.49	0.0	1.0
S10BATHH	718	0.65	0.48	0.0	1.0
S11BATHH	680	0.61	0.49	0.0	1.0
S12BATHH	635	0.64	0.48	0.0	1.0

R1EAT	12652	1.02	0.23	1.0	9.0
R2EAT	19639	0.02	0.21	0.0	9.0
R3EAT	17951	0.05	0.31	0.0	9.0
R4EAT	21353	0.05	0.34	0.0	9.0
R5EAT	19555	0.05	0.41	0.0	9.0
R6EAT	18154	0.05	0.38	0.0	9.0
R7EAT	20110	0.05	0.39	0.0	9.0
R8EAT	18456	0.06	0.41	0.0	9.0
R9EAT	17206	0.05	0.38	0.0	9.0
R10EAT	21895	0.05	0.37	0.0	9.0
R11EAT	20531	0.06	0.37	0.0	9.0
R12EAT	18722	0.05	0.32	0.0	9.0
S1EAT	9900	1.02	0.22	1.0	9.0
S2EAT	13085	0.01	0.19	0.0	9.0
S3EAT	11903	0.03	0.26	0.0	9.0
S4EAT	13969	0.03	0.27	0.0	9.0
S5EAT	12725	0.03	0.31	0.0	9.0
S6EAT	11634	0.03	0.29	0.0	9.0
S7EAT	12971	0.03	0.27	0.0	9.0
S8EAT	11733	0.03	0.27	0.0	9.0
S9EAT	10643	0.03	0.31	0.0	9.0
S10EAT	13431	0.03	0.26	0.0	9.0
S11EAT	12483	0.04	0.28	0.0	9.0
S12EAT	11020	0.03	0.23	0.0	9.0
R2EATH	8221	0.11	0.54	0.0	9.0
R3EATH	691	0.60	0.49	0.0	1.0
R4EATH	826	0.60	0.49	0.0	1.0
R5EATH	749	0.68	0.47	0.0	1.0
R6EATH	752	0.63	0.48	0.0	1.0
R7EATH	776	0.63	0.48	0.0	1.0
R8EATH	795	0.64	0.48	0.0	1.0
R9EATH	724	0.62	0.48	0.0	1.0
R10EATH	956	0.52	0.50	0.0	1.0
R11EATH	916	0.55	0.50	0.0	1.0
R12EATH	888	0.54	0.50	0.0	1.0
S2EATH	4348	0.08	0.50	0.0	9.0
S3EATH	305	0.59	0.49	0.0	1.0
S4EATH	362	0.64	0.48	0.0	1.0
S5EATH	312	0.67	0.47	0.0	1.0
S6EATH	290	0.65	0.48	0.0	1.0
S7EATH	301	0.63	0.48	0.0	1.0
S8EATH	319	0.64	0.48	0.0	1.0
S9EATH	256	0.60	0.49	0.0	1.0
S10EATH	376	0.51	0.50	0.0	1.0
S11EATH	378	0.54	0.50	0.0	1.0
S12EATH	342	0.53	0.50	0.0	1.0
R1BED	12652	1.12	0.50	1.0	9.0
R2BED	19631	0.07	0.38	0.0	9.0
R3BED	17950	0.08	0.35	0.0	9.0
R4BED	21352	0.09	0.39	0.0	9.0
R5BED	19551	0.09	0.43	0.0	9.0
R6BED	18150	0.09	0.45	0.0	9.0
R7BED	20114	0.08	0.40	0.0	9.0
R8BED	18455	0.09	0.42	0.0	9.0
R9BED	17202	0.09	0.41	0.0	9.0

R10BED	21891	0.09	0.38	0.0	9.0
R11BED	20520	0.09	0.41	0.0	9.0
R12BED	18714	0.09	0.40	0.0	9.0
S1BED	9900	1.11	0.47	1.0	9.0
S2BED	13081	0.06	0.37	0.0	9.0
S3BED	11903	0.06	0.30	0.0	9.0
S4BED	13969	0.06	0.31	0.0	9.0
S5BED	12724	0.06	0.34	0.0	9.0
S6BED	11633	0.06	0.33	0.0	9.0
S7BED	12970	0.05	0.33	0.0	9.0
S8BED	11731	0.07	0.35	0.0	9.0
S9BED	10644	0.06	0.35	0.0	9.0
S10BED	13430	0.06	0.29	0.0	9.0
S11BED	12477	0.07	0.34	0.0	9.0
S12BED	11016	0.07	0.32	0.0	9.0
R2BEDH	8220	0.10	0.56	0.0	9.0
R3BEDH	1353	0.40	0.49	0.0	1.0
R4BEDH	1568	0.39	0.49	0.0	1.0
R5BEDH	1402	0.43	0.49	0.0	1.0
R6BEDH	1316	0.47	0.50	0.0	1.0
R7BEDH	1343	0.48	0.50	0.0	1.0
R8BEDH	1377	0.46	0.50	0.0	1.0
R9BEDH	1257	0.49	0.50	0.0	1.0
R10BEDH	1748	0.50	0.50	0.0	1.0
R11BEDH	1664	0.53	0.50	0.0	1.0
R12BEDH	1552	0.52	0.50	0.0	1.0
S2BEDH	4347	0.09	0.57	0.0	9.0
S3BEDH	645	0.39	0.49	0.0	1.0
S4BEDH	746	0.38	0.49	0.0	1.0
S5BEDH	667	0.40	0.49	0.0	1.0
S6BEDH	582	0.47	0.50	0.0	1.0
S7BEDH	604	0.49	0.50	0.0	1.0
S8BEDH	660	0.44	0.50	0.0	1.0
S9BEDH	522	0.44	0.50	0.0	1.0
S10BEDH	791	0.51	0.50	0.0	1.0
S11BEDH	756	0.51	0.50	0.0	1.0
S12BEDH	670	0.53	0.50	0.0	1.0
R2BEDE	8220	0.06	0.38	0.0	9.0
R3BEDE	11611	0.07	0.25	0.0	1.0
R4BEDE	10328	0.09	0.28	0.0	1.0
R5BEDE	9722	0.09	0.29	0.0	1.0
R6BEDE	9566	0.11	0.31	0.0	1.0
R7BEDE	10279	0.10	0.30	0.0	1.0
R8BEDE	9838	0.10	0.31	0.0	1.0
R9BEDE	9225	0.10	0.31	0.0	1.0
R10BEDE	11073	0.11	0.31	0.0	1.0
R11BEDE	10310	0.12	0.33	0.0	1.0
R12BEDE	9684	0.13	0.34	0.0	1.0
S2BEDE	4347	0.05	0.42	0.0	9.0
S3BEDE	7143	0.05	0.21	0.0	1.0
S4BEDE	5977	0.06	0.23	0.0	1.0
S5BEDE	5603	0.06	0.24	0.0	1.0
S6BEDE	5429	0.07	0.26	0.0	1.0
S7BEDE	5849	0.06	0.24	0.0	1.0

S8BEDE	5521	0.07	0.25	0.0	1.0
S9BEDE	5021	0.07	0.25	0.0	1.0
S10BEDE	6040	0.08	0.27	0.0	1.0
S11BEDE	5533	0.09	0.28	0.0	1.0
S12BEDE	4990	0.10	0.29	0.0	1.0
R2TOILT	8218	0.05	0.28	0.0	2.0
R3TOILT	17950	0.07	0.37	0.0	9.0
R4TOILT	21347	0.08	0.41	0.0	9.0
R5TOILT	19548	0.08	0.44	0.0	9.0
R6TOILT	18148	0.09	0.49	0.0	9.0
R7TOILT	20113	0.08	0.49	0.0	9.0
R8TOILT	18455	0.10	0.51	0.0	9.0
R9TOILT	17202	0.09	0.52	0.0	9.0
R10TOILT	21886	0.08	0.41	0.0	9.0
R11TOILT	20530	0.08	0.42	0.0	9.0
R12TOILT	18718	0.09	0.43	0.0	9.0
S2TOILT	4347	0.03	0.23	0.0	2.0
S3TOILT	11902	0.05	0.30	0.0	9.0
S4TOILT	13967	0.05	0.34	0.0	9.0
S5TOILT	12725	0.05	0.34	0.0	9.0
S6TOILT	11631	0.05	0.35	0.0	9.0
S7TOILT	12968	0.05	0.37	0.0	9.0
S8TOILT	11731	0.06	0.39	0.0	9.0
S9TOILT	10644	0.05	0.37	0.0	9.0
S10TOILT	13428	0.05	0.31	0.0	9.0
S11TOILT	12483	0.06	0.37	0.0	9.0
S12TOILT	11022	0.06	0.32	0.0	9.0
R2TOILTH	8219	0.06	0.41	0.0	3.0
R3TOILTH	1064	0.36	0.48	0.0	1.0
R4TOILTH	1334	0.34	0.48	0.0	1.0
R5TOILTH	1251	0.35	0.48	0.0	1.0
R6TOILTH	1190	0.39	0.49	0.0	1.0
R7TOILTH	1221	0.37	0.48	0.0	1.0
R8TOILTH	1343	0.33	0.47	0.0	1.0
R9TOILTH	1200	0.37	0.48	0.0	1.0
R10TOILTH	1544	0.33	0.47	0.0	1.0
R11TOILTH	1453	0.38	0.48	0.0	1.0
R12TOILTH	1398	0.36	0.48	0.0	1.0
S2TOILTH	4347	0.05	0.37	0.0	3.0
S3TOILTH	460	0.35	0.48	0.0	1.0
S4TOILTH	607	0.33	0.47	0.0	1.0
S5TOILTH	571	0.30	0.46	0.0	1.0
S6TOILTH	483	0.37	0.48	0.0	1.0
S7TOILTH	503	0.35	0.48	0.0	1.0
S8TOILTH	565	0.30	0.46	0.0	1.0
S9TOILTH	470	0.31	0.46	0.0	1.0
S10TOILTH	615	0.31	0.46	0.0	1.0
S11TOILTH	586	0.34	0.47	0.0	1.0
S12TOILTH	554	0.34	0.47	0.0	1.0

## Categorical Variable Codes

Value	R1WALKR
1.Not at all diff	12102
2.A little diff	295
3.Somewhat diff	152
4.Very diff/can't do	87
9.Don't do	16

Value	R2WALKR
.D=DK/NA	354
.M=Oth missing	1
.R=RF	1
0.No	17954
1.Yes,a little	727
2.Yes,a lot	579
3.Yes,DK/NA how much	4
4.Yes,RF how much	1
9.Don't do	21

Value	R3WALKR	R4WALKR	R5WALKR	R6WALKR	R7WALKR
.D=DK/NA	2	1	5	3	1
.R=RF	3		3		1
.S=Skip	36	28	23	7	10
0.No	16607	19789	18021	16630	18562
1.Yes	1159	1338	1317	1336	1361
2.Can't do	165	199	166	156	164
9.Don't do	19	29	44	33	30

Value	R8WALKR	R9WALKR	R10WALKR	R11WALKR	R12WALKR
.D=DK/NA	2	1	4	15	15
.R=RF	2	1	1	2	1
.S=Skip	7	9	131	18	16
0.No	16922	15719	20113	18845	17093
1.Yes	1327	1310	1667	1564	1552
2.Can't do	183	142	98	99	55
9.Don't do	26	35	20	11	15

Value	S1WALKR
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9533
2.A little diff	202
3.Somewhat diff	96
4.Very diff/can't do	55
9.Don't do	14

Value	S2WALKR
.D=DK/NA	268
.M=Oth missing	1
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12215
1.Yes,a little	336
2.Yes,a lot	252
3.Yes,DK/NA how much	2
4.Yes,RF how much	1
9.Don't do	12

Value	S3WALKR	S4WALKR	S5WALKR	S6WALKR	S7WALKR
.D=DK/NA		1	2	1	1
.R=RF	1		2		1
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11310	13328	12070	11000	12326
1.Yes	504	552	579	571	574
2.Can't do	78	78	61	52	57
9.Don't do	11	12	11	12	12

Value	S8WALKR	S9WALKR	S10WALKR	S11WALKR	S12WALKR
.D=DK/NA			2	9	5
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11100	10090	12716	11787	10396
1.Yes	563	500	679	643	605
2.Can't do	65	42	27	40	17
9.Don't do	6	12	10	5	1



Value	R2WALKRH
.M=Oth missing	1
.Q=Not asked this wv	11420
0.No	7711
1.Yes,occasionally	194
2.Yes,some of the time	112
3.Yes,most of the time	183
9.Don't do	21

Value	R3WALKRH	R4WALKRH	R5WALKRH	R6WALKRH	R7WALKRH
.D=DK/NA	1		1	1	3
.M=Oth missing	1				
.R=RF	1		3		1
.S=Skip	16646	19817	18044	16637	18572
.X=Don't do					5
0.No	770	938	907	870	876
1.Yes	572	629	624	657	669
2.Can't do					3

Value	R8WALKRH	R9WALKRH	R10WALKRH	R11WALKRH	R12WALKRH
.D=DK/NA	3	1	1	8	5
.R=RF	2		1	1	1
.S=Skip	16929	15728	20244	18863	17109
0.No	892	841	881	819	785
1.Yes	643	647	907	863	847

Value	S2WALKRH
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4121
1.Yes,occasionally	84
2.Yes,some of the time	51
3.Yes,most of the time	80
9.Don't do	12

Value	S3WALKRH	S4WALKRH	S5WALKRH	S6WALKRH	S7WALKRH
.M=Oth missing	1				
.R=RF	1		2		1
.S=Skip	11323	13335	12075	11003	12327
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Don't do					2
0.No	349	374	380	371	362
1.Yes	241	269	273	265	278
2.Can't do					2

Value	S8WALKRH	S9WALKRH	S10WALKRH	S11WALKRH	S12WALKRH
.D=DK/NA	1		1	2	2
.S=Skip	11101	10092	12795	11791	10399
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	362	315	345	349	300
1.Yes	271	239	372	346	326

Value	R2WALKRE	R3WALKRE	R4WALKRE	R5WALKRE	R6WALKRE	R7WALKRE
.D=DK/NA		1	3	2	2	
.M=Oth missing		1				
.Q=Not asked this wv	11420					
.R=RF		1		3		1
.S=Skip		6377	11051	9852	8589	9845
0.No		6733	9614	8007	7379	7693
1.Yes		1467	1998	2323	2343	2590
9.Don't do		21				

Value	R8WALKRE	R9WALKRE	R10WALKRE	R11WALKRE	R12WALKRE
.D=DK/NA	1	1	3	7	5
.R=RF	2		1	1	2
.S=Skip	8620	7987	10947	10230	9038
0.No	7276	6716	8038	7212	6627
1.Yes	2570	2513	3045	3104	3075

Value	S2WALKRE	S3WALKRE	S4WALKRE	S5WALKRE	S6WALKRE	S7WALKRE
.D=DK/NA			2		1	
.M=Oth missing		1				
.Q=Not asked this wv	9123					
.R=RF		1		2		1
.S=Skip		4771	7999	7127	6207	7122
.U=Unmarried		5970	5658	6538	6306	6777
.V=Spouse NR		200	418	537	311	220
0.No		3778	6307	5016	4655	4423
1.Yes		558	836	961	946	1008
9.Don't do		12				1077

Value	S8WALKRE	S9WALKRE	S10WALKRE	S11WALKRE	S12WALKRE
.D=DK/NA	1		1	2	
.S=Skip	6211	5625	7469	6951	6031
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	4513	4066	4799	4273	3758
1.Yes	1010	955	1244	1262	1238

Value	R1DRESS
1.Not at all diff	12278
2.A little diff	238
3.Somewhat diff	85
4.Very diff/can't do	44
9.Don't do	7

Value	R2DRESS
.D=DK/NA	3
.M=Oth missing	1
0.No	18574
1.Yes,a little	690
2.Yes,a lot	363
9.Don't do	11

Value	R3DRESS	R4DRESS	R5DRESS	R6DRESS	R7DRESS
.D=DK/NA	3	3	6	5	3
.M=Oth missing	1				
.R=RF	1		1		1
.S=Skip	36	28	23	7	10
0.No	16068	19160	17458	16216	18104
1.Yes	1719	1981	1917	1790	1850
2.Can't do	148	185	130	118	131
9.Don't do	15	27	44	29	30

Value	R8DRESS	R9DRESS	R10DRESS	R11DRESS	R12DRESS
.D=DK/NA	7	1	2	10	8
.R=RF	2		2	3	2
.S=Skip	7	9	131	18	16
0.No	16398	15269	19328	18212	16411
1.Yes	1889	1798	2495	2237	2248
2.Can't do	140	110	60	60	51
9.Don't do	26	30	16	14	11

Value	S1DRESS
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9655
2.A little diff	152
3.Somewhat diff	55
4.Very diff/can't do	33
9.Don't do	5

Value	S2DRESS
.M=Oth missing	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12603
1.Yes,a little	322
2.Yes,a lot	154
9.Don't do	8

Value	S3DRESS	S4DRESS	S5DRESS	S6DRESS	S7DRESS
.D=DK/NA		1	1	1	
.R=RF	1		1		1
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10949	12855	11662	10705	11991
1.Yes	884	1026	997	880	919
2.Can't do	62	76	52	42	51
9.Don't do	8	13	12	8	9

Value	S8DRESS	S9DRESS	S10DRESS	S11DRESS	S12DRESS
.D=DK/NA	1			4	4
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10719	9762	12209	11419	9970
1.Yes	949	834	1202	1028	1027
2.Can't do	58	34	19	27	19
9.Don't do	7	14	4	6	4

Value	R2DRESSH
.M=Oth missing	1
.Q=Not asked this wv	11420
0.No	7560
1.Yes,occasionally	157
2.Yes,some of the time	150
3.Yes,most of the time	343
9.Don't do	11

Value	R3DRESSH	R4DRESSH	R5DRESSH	R6DRESSH	R7DRESSH
.D=DK/NA	3		1	3	4
.R=RF	1		2		2
.S=Skip	16104	19188	17481	16223	18114
0.No	897	1039	993	850	866
1.Yes	986	1157	1102	1089	1143

Value	R8DRESSH	R9DRESSH	R10DRESSH	R11DRESSH	R12DRESSH
.D=DK/NA	2	1	1	4	2
.R=RF	2		1	2	1
.S=Skip	16405	15278	19459	18230	16427
0.No	917	873	1114	959	980
1.Yes	1143	1065	1459	1359	1337

Value	S2DRESSH
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4036
1.Yes,occasionally	79
2.Yes,some of the time	64
3.Yes,most of the time	161
9.Don't do	8

Value	S3DRESSH	S4DRESSH	S5DRESSH	S6DRESSH	S7DRESSH
.D=DK/NA	1			1	1
.R=RF	1		2		2
.S=Skip	10960	12862	11667	10708	11992
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	433	520	514	403	409
1.Yes	520	596	547	527	568

Value	S8DRESSH	S9DRESSH	S10DRESSH	S11DRESSH	S12DRESSH
.D=DK/NA		1		2	
.S=Skip	10720	9764	12288	11423	9973
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	440	402	503	441	430
1.Yes	575	479	722	622	624

Value	R1BATH
1.Not at all diff	12081
2.A little diff	268
3.Somewhat diff	172
4.Very diff/can't do	118
9.Don't do	13

Value	R2BATH
.D=DK/NA	7
.M=Oth missing	1
0.No	18642
1.Yes,a little	519
2.Yes,a lot	464
4.Yes,RF how much	1
9.Don't do	8

Value	R3BATH	R4BATH	R5BATH	R6BATH	R7BATH
.D=DK/NA	3	6	5	4	5
.M=Oth missing	1				
.R=RF	1				2
.S=Skip	36	28	23	7	10
0.No	16562	19595	17936	16608	18514
1.Yes	1232	1551	1463	1397	1455
2.Can't do	135	178	115	117	113
9.Don't do	21	26	37	32	30

Value	R8BATH	R9BATH	R10BATH	R11BATH	R12BATH
.D=DK/NA	5	1	5	9	10
.R=RF	2		1	2	1
.S=Skip	7	9	131	18	16
0.No	16929	15711	20028	18736	16998
1.Yes	1379	1367	1791	1723	1663
2.Can't do	123	107	67	55	46
9.Don't do	24	22	11	11	13

Value	S1BATH
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9555
2.A little diff	166
3.Somewhat diff	101
4.Very diff/can't do	70
9.Don't do	8

Value	S2BATH
.D=DK/NA	3
.M=Oth missing	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12651
1.Yes,a little	238
2.Yes,a lot	192
9.Don't do	3

Value	S3BATH	S4BATH	S5BATH	S6BATH	S7BATH
.D=DK/NA		2	1	1	
.R=RF	1				2
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11336	13243	12087	11048	12352
1.Yes	510	647	585	542	576
2.Can't do	51	71	44	37	31
9.Don't do	6	8	8	8	10

Value	S8BATH	S9BATH	S10BATH	S11BATH	S12BATH
.D=DK/NA	2		2	2	4
.R=RF				1	
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11141	10107	12716	11802	10388
1.Yes	544	499	692	654	615
2.Can't do	44	30	20	21	16
9.Don't do	3	8	4	4	1

Value	R2BATHH
.D=DK/NA	2
.M=Oth missing	1
.Q=Not asked this wv	11420
0.No	7511
1.Yes,occasionally	96
2.Yes,some of the time	91
3.Yes,most of the time	513
9.Don't do	8

Value	R3BATHH	R4BATHH	R5BATHH	R6BATHH	R7BATHH
.D=DK/NA	2	3	3	1	4
.R=RF	1				1
.S=Skip	16598	19623	17959	16615	18524
.X=Don't do					1
0.No	483	695	576	474	539
1.Yes	907	1063	1041	1075	1060

Value	R8BATHH	R9BATHH	R10BATHH	R11BATHH	R12BATHH
.D=DK/NA	1		1	4	1
.R=RF	2		1	2	
.S=Skip	16936	15720	20159	18754	17014
0.No	529	507	671	632	622
1.Yes	1001	990	1202	1162	1110

Value	S2BATHH
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4076
1.Yes,occasionally	33
2.Yes,some of the time	34
3.Yes,most of the time	201
9.Don't do	3



Value	S3BATHH	S4BATHH	S5BATHH	S6BATHH	S7BATHH
.D=DK/NA		1	1		
.R=RF	1				1
.S=Skip	11347	13250	12092	11051	12353
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Don't do					1
0.No	210	302	242	191	224
1.Yes	357	425	395	397	393

Value	S8BATHH	S9BATHH	S10BATHH	S11BATHH	S12BATHH
.D=DK/NA				1	1
.R=RF				1	
.S=Skip	11142	10109	12795	11806	10391
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	208	210	248	263	231
1.Yes	385	327	470	417	404

Value	R1EAT
1.Not at all diff	12529
2.A little diff	78
3.Somewhat diff	21
4.Very diff/can't do	19
9.Don't do	5

Value	R2EAT
.D=DK/NA	1
.M=Oth missing	1
.R=RF	1
0.No	19410
1.Yes,a little	130
2.Yes,a lot	94
4.Yes,RF how much	1
9.Don't do	4

Value	R3EAT	R4EAT	R5EAT	R6EAT	R7EAT
.D=DK/NA	3	3	1	4	9
.R=RF	1				
.S=Skip	36	28	23	7	10
0.No	17260	20529	18805	17405	19340
1.Yes	607	717	657	663	672
2.Can't do	74	89	63	64	71
9.Don't do	10	18	30	22	27

Value	R8EAT	R9EAT	R10EAT	R11EAT	R12EAT
.D=DK/NA	3	2	7	4	7
.R=RF	3		1	1	2
.S=Skip	7	9	131	18	16
0.No	17662	16483	20941	19617	17842
1.Yes	697	651	888	852	845
2.Can't do	69	51	41	39	22
9.Don't do	28	21	25	23	13

Value	S1EAT
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9819
2.A little diff	50
3.Somewhat diff	13
4.Very diff/can't do	14
9.Don't do	4

Value	S2EAT
.D=DK/NA	1
.M=Oth missing	1
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12989
1.Yes,a little	52
2.Yes,a lot	40
4.Yes,RF how much	1
9.Don't do	3

Value	S3EAT	S4EAT	S5EAT	S6EAT	S7EAT
.D=DK/NA		2		2	
.R=RF	1				
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11597	13608	12413	11346	12670
1.Yes	268	315	274	258	271
2.Can't do	33	39	27	22	23
9.Don't do	5	7	11	8	7

Value	S8EAT	S9EAT	S10EAT	S11EAT	S12EAT
.D=DK/NA		1	3	1	3
.R=RF	1				1
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11414	10388	13057	12104	10682
1.Yes	290	233	351	354	326
2.Can't do	23	13	17	18	9
9.Don't do	6	9	6	7	3

Value	R2EATH
.M=Oth missing	1
.Q=Not asked this wv	11420
0.No	7858
1.Yes,occasionally	94
2.Yes,some of the time	58
3.Yes,most of the time	207
9.Don't do	4

Value	R3EATH	R4EATH	R5EATH	R6EATH	R7EATH
.D=DK/NA	2	1	2	1	3
.M=Oth missing	1				
.R=RF	1				
.S=Skip	17296	20557	18828	17412	19350
0.No	277	334	243	276	289
1.Yes	414	492	506	476	487

Value	R8EATH	R9EATH	R10EATH	R11EATH	R12EATH
.D=DK/NA	2	1	5	2	
.R=RF	3		1	1	1
.S=Skip	17669	16492	21072	19635	17858
0.No	284	272	460	409	409
1.Yes	511	452	496	507	479

Value	S2EATH
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4195
1.Yes,occasionally	43
2.Yes,some of the time	28
3.Yes,most of the time	79
9.Don't do	3

Value	S3EATH	S4EATH	S5EATH	S6EATH	S7EATH
.D=DK/NA		1			
.M=Oth missing	1				
.R=RF	1				
.S=Skip	11608	13615	12418	11349	12671
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	125	130	103	102	111
1.Yes	180	232	209	188	190

Value	S8EATH	S9EATH	S10EATH	S11EATH	S12EATH
.D=DK/NA			1	2	
.R=RF	1				
.S=Skip	11415	10390	13136	12108	10685
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	115	103	183	173	162
1.Yes	204	153	193	205	180

Value	R1BED
1.Not at all diff	11672
2.A little diff	575
3.Somewhat diff	277
4.Very diff/can't do	118
9.Don't do	10

Value	R2BED
.D=DK/NA	8
.M=Oth missing	1
.R=RF	2
0.No	18622
1.Yes,a little	650
2.Yes,a lot	344
3.Yes,DK/NA how much	1
4.Yes,RF how much	3
9.Don't do	11

Value	R3BED	R4BED	R5BED	R6BED	R7BED
.D=DK/NA	4	4	5	8	5
.R=RF	1				
.S=Skip	36	28	23	7	10
0.No	16599	19783	18150	16840	18773
1.Yes	1250	1436	1284	1185	1222
2.Can't do	92	115	90	97	97
9.Don't do	9	18	27	28	22

Value	R8BED	R9BED	R10BED	R11BED	R12BED
.D=DK/NA	4	6	11	14	16
.R=RF	3		1	2	1
.S=Skip	7	9	131	18	16
0.No	17080	15949	20149	18871	17169
1.Yes	1248	1148	1670	1584	1505
2.Can't do	106	87	55	41	21
9.Don't do	21	18	17	24	19

Value	S1BED
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9235
2.A little diff	403
3.Somewhat diff	179
4.Very diff/can't do	76
9.Don't do	7

Value	S2BED
.D=DK/NA	4
.M=Oth missing	1
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12557
1.Yes,a little	347
2.Yes,a lot	164
3.Yes,DK/NA how much	1
4.Yes,RF how much	3
9.Don't do	9

Value	S3BED	S4BED	S5BED	S6BED	S7BED
.D=DK/NA		2	1	3	1
.R=RF	1				
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11258	13220	12057	11053	12366
1.Yes	603	697	626	542	562
2.Can't do	38	46	32	30	33
9.Don't do	4	6	9	8	9

Value	S8BED	S9BED	S10BED	S11BED	S12BED
.D=DK/NA	2		4	6	8
.R=RF	1			1	
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11072	10122	12641	11728	10349
1.Yes	616	492	767	720	654
2.Can't do	34	21	18	20	7
9.Don't do	9	9	4	9	6

Value	R2BEDH
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	11420
0.No	7917
1.Yes,occasionally	70
2.Yes,some of the time	48
3.Yes,most of the time	175
9.Don't do	10

Value	R3BEDH	R4BEDH	R5BEDH	R6BEDH	R7BEDH
.D=DK/NA	2	5	4	2	2
.R=RF	1				
.S=Skip	16635	19811	18173	16847	18783
.X=Don't do					1
0.No	812	951	803	693	698
1.Yes	541	617	599	623	645

Value	R8BEDH	R9BEDH	R10BEDH	R11BEDH	R12BEDH
.D=DK/NA	2	2	5		9
.R=RF	3		1	1	1
.S=Skip	17087	15958	20280	18889	17185
0.No	741	639	878	785	743
1.Yes	636	618	870	879	809

Value	S2BEDH
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4210
1.Yes,occasionally	35
2.Yes,some of the time	18
3.Yes,most of the time	76
9.Don't do	8

Value	S3BEDH	S4BEDH	S5BEDH	S6BEDH	S7BEDH
.D=DK/NA		5	1	1	
.R=RF	1				
.S=Skip	11269	13227	12062	11056	12367
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Don't do					1
0.No	392	461	397	308	306
1.Yes	253	285	270	274	298

Value	S8BEDH	S9BEDH	S10BEDH	S11BEDH	S12BEDH
.D=DK/NA	1		2		5
.R=RF	1				
.S=Skip	11073	10124	12720	11732	10352
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	372	292	387	368	317
1.Yes	288	230	404	388	353

Value	R2BEDE	R3BEDE	R4BEDE	R5BEDE	R6BEDE	R7BEDE
.D=DK/NA	1	1	4	4	10	5
.M=Oth missing	1	1				
.Q=Not asked this wv	11420					
.R=RF		1	1	1		
.S=Skip		6377	11051	9852	8589	9845
0.No	7813	10818	9446	8808	8554	9281
1.Yes	397	793	882	914	1012	998
9.Don't do	10					

Value	R8BEDE	R9BEDE	R10BEDE	R11BEDE	R12BEDE
.D=DK/NA	7	5	12	12	23
.R=RF	4		2	2	2
.S=Skip	8620	7987	10947	10230	9038
0.No	8816	8258	9864	9071	8422
1.Yes	1022	967	1209	1239	1262

Value	S2BEDE	S3BEDE	S4BEDE	S5BEDE	S6BEDE	S7BEDE
.D=DK/NA	1		1		3	1
.M=Oth missing	1					
.Q=Not asked this wv	9123					
.R=RF		1	1			
.S=Skip		4771	7999	7127	6207	7122
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
0.No	4191	6816	5633	5258	5045	5490
1.Yes	148	327	344	345	384	359
9.Don't do	8					

Value	S8BEDE	S9BEDE	S10BEDE	S11BEDE	S12BEDE
.D=DK/NA	2		3	3	6
.R=RF	1		1	1	
.S=Skip	6211	5625	7469	6951	6031
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5143	4686	5575	5059	4513
1.Yes	378	335	465	474	477



Value	R2TOILT
.D=DK/NA	2
.M=Oth missing	1
.Q=Not asked this wv	11420
.R=RF	1
0.No	7925
1.Yes,a little	161
2.Yes,a lot	132

Value	R3TOILT	R4TOILT	R5TOILT	R6TOILT	R7TOILT
.D=DK/NA	4	8	8	9	5
.R=RF	1	1		1	1
.S=Skip	36	28	23	7	10
0.No	16886	20015	18300	16962	18890
1.Yes	954	1203	1135	1063	1103
2.Can't do	95	103	83	84	77
9.Don't do	15	26	30	39	43

Value	R8TOILT	R9TOILT	R10TOILT	R11TOILT	R12TOILT
.D=DK/NA	3	6	15	4	12
.R=RF	4		2	2	1
.S=Skip	7	9	131	18	16
0.No	17115	16005	20351	19070	17324
1.Yes	1213	1091	1462	1398	1345
2.Can't do	86	63	47	35	23
9.Don't do	41	43	26	27	26

Value	S2TOILT
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4243
1.Yes,a little	57
2.Yes,a lot	47

Value	S3TOILT	S4TOILT	S5TOILT	S6TOILT	S7TOILT
.D=DK/NA	1	3		4	2
.R=RF	1	1		1	1
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11442	13359	12154	11150	12462
1.Yes	408	554	530	444	471
2.Can't do	46	43	30	26	20
9.Don't do	6	11	11	11	15

Value	S8TOILT	S9TOILT	S10TOILT	S11TOILT	S12TOILT
.D=DK/NA	1		5	1	2
.R=RF	2		1		
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11167	10174	12817	11893	10470
1.Yes	525	439	587	561	536
2.Can't do	24	19	16	15	9
9.Don't do	15	12	8	14	7

Value	R2TOILTH
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	11420
.R=RF	1
0.No	8009
1.Yes,occasionally	35
2.Yes,some of the time	43
3.Yes,most of the time	132

Value	R3TOILTH	R4TOILTH	R5TOILTH	R6TOILTH	R7TOILTH
.D=DK/NA	3	6	4	6	3
.R=RF	2	1	1		1
.S=Skip	16922	20043	18323	16969	18900
.X=Don't do					4
0.No	679	874	813	723	772
1.Yes	385	460	438	467	449

Value	R8TOILTH	R9TOILTH	R10TOILTH	R11TOILTH	R12TOILTH
.D=DK/NA		3	6	11	8
.R=RF	4		2	2	1
.S=Skip	17122	16014	20482	19088	17340
0.No	897	762	1030	908	894
1.Yes	446	438	514	545	504

Value	S2TOILTH
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.No	4255
1.Yes,occasionally	15
2.Yes,some of the time	21
3.Yes,most of the time	56

Value	S3TOILTH	S4TOILTH	S5TOILTH	S6TOILTH	S7TOILTH
.D=DK/NA	1	4		3	2
.R=RF	1	1			1
.S=Skip	11453	13366	12159	11153	12463
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Don't do					3
0.No	297	409	402	304	326
1.Yes	163	198	169	179	177

Value	S8TOILTH	S9TOILTH	S10TOILTH	S11TOILTH	S12TOILTH
.D=DK/NA			2	5	
.R=RF	2				
.S=Skip	11168	10176	12896	11897	10473
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	394	325	423	388	368
1.Yes	171	145	192	198	186

## How Constructed

These variables recode the raw variables for difficulty with activities of daily living (ADLs) as they appear in the HRS data except for missing values and accounting for skip patterns. The ADLs include walking across a room (RwWALKR), dressing (RwDRESS), bathing (RwBATH), eating (RwEAT), getting in and out of bed (RwBED), and using the toilet (RwTOILT). In the following, references to Rw[adl] apply to all these variables. Also described here are variables coding whether the Respondent gets help with ADLs (Rw[adl]H, e.g., RwDRESSH) or uses equipment to walk across a room or get in and out of bed (RwWALKRE and RwBEDE).

Note that questions about using the toilet are not asked in Waves 1 and 2H. Thus there is no R1TOILT variable and for HRS Respondents in Wave 2, R2TOILT is set to .Q (question not asked). Questions about receiving help or using equipment are not asked in these waves for any of the ADLs. So in Wave 1, the variables R1[adl]H, R1WALKRE, or R1BEDE are not present, and for HRS Respondents in Wave 2H, the R2[adl]H, R2WALKRE, and R2BEDE variables are set to .Q.

The recodes vary across waves because the question and responses can vary across waves. In Wave 1, the HRS imputations are left in place. In all other waves "don't know" is recoded to special missing code .D and "refused" is recoded to .R. In Wave 1, difficulty with an ADL is rated on a 4-point scale from "no difficulty" to "very difficult/can't do." These are assigned without change. A "don't do" answer is recoded to 9.

In Wave 2, the question asks if the Respondent has any difficulty with an ADL and if so, asks follow-up questions about the degree of difficulty. In Wave 2H, the raw variable codes both questions as one categorical variable. In Wave 2A the answer to the first question and a categorical variable for the follow-up are given. In either case, a "no" answer to the

first question about any difficulty is recoded to "0," and the categorical levels of difficulty are recoded appropriately to "a little" and "a lot", or "don't know/refused how much." A "don't do" response is coded as "9."

From Wave 3 forward, the answers are simply "yes" for difficulty and "no" if not, which are coded "1" and "0," respectively. A "can't do" response is recoded to "2" and a "don't do" response is recoded to "9." If the response to the difficulty question is missing and the Respondent says "yes" to the follow-up question about getting help with the ADL, then `Rw[adl]` is set to "1," or "yes, difficulty."

In some waves, questions about activities are skipped based on answers to previous questions. In Waves 1 and 2H, if a Respondent said no difficulty jogging a mile, walking several blocks, or walking one block, the question about walking across a room is skipped. In these cases, `RwWALKR` is set to "0" for "no difficulty."

From Wave 3 forward, ADL questions are skipped if no difficulty was reported with any of the tasks asked about earlier. In these cases, `Rw[adl]` is set to "no difficulty." From Wave 4 forward, if difficulty with only one prior task and no difficulty with dressing was reported, the questions about the rest of the ADLs are skipped. In these cases, the rest of the `Rw[adl]` variables are also set to "no difficulty." The assumption is that, since the Respondent had no difficulty with the earlier activities, s/he would also have reported no difficulty to the activities in the skipped questions.

In Wave 2A and from Wave 3 forward, there are questions about getting help with all ADLs and about use of equipment for walking across a room and getting in and out of bed. The help variables are named `Rw[adl]H`, e.g., `RwWALKRH` and the equipment variables are named `RwWALKRE` and `RwBEDE`. These are coded "1" for yes, "0" for no, .D for "don't know", and .R for refusals. If the Respondent reported "no difficulty," the help question is skipped, and the help variable (e.g., `RwWALKRH`) is set to .S. The equipment question is asked regardless of the answer to the difficulty question. If the difficulty question is skipped because of previous answers, then both the help and equipment questions are also skipped and `Rw[adl]H` and `RwWALKRE/RwBEDE` are set to .S.

In Wave 2A, the question about getting help was asked before the one about difficulty and using equipment walking across a room. If Respondents answered "don't do" on the getting help question, then both the help and, if applicable, equipment variables, e.g., `R2WALKRH` and `R2WALKRE`, are set to "9." In other waves, the question about help is asked even if the response to whether any difficulty is "don't do." In Wave 7, for the help questions, a mistake in the Spanish instrument allowed "can't do" and "don't do" responses, which are recoded to "2" and "9," respectively.

For all waves when the help question is asked, if Respondents answer "yes" to "getting help" and are missing `Rw[adl]`, we set `Rw[adl]` to "yes."

In Wave 2H, the data needed to derive the help variables (`R2[adl]H`) and `R2WALKRE/R2BEDE` are not collected. `R2[adl]H` and `R2WALKRE/R2BEDE` are set to .Q to indicate that this information is not available for HRS Respondents in this wave.

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

There are other versions of the `Rw[adl]` variables that recode to a yes/no measure for use in creating indices. One version of this variable is derived that attempts to code a consistent cross-wave yes/no dummy that indicates "some difficulty" (`Rw[adl]A`). These are available from Wave 2 forward. Because of the inconsistent coding of the underlying HRS data, we do not construct `R1[adl]A` variables in Wave 1. Please see the description of the `Rw[adl]A` variables under "Activities of daily living (ADLs): Some difficulty" for this version. `Rw[adl]A` variables are used to construct a number of functional limitation indices, including an ADL summary index. Please see "ADL Summary" and "Other Summary Indices."

A third version of these variables are derived for Wave 1 only (R1[adl]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "ADLs: Recodes for comparison to Wallace and Herzog" for a description of the R1[adl]W variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes done in other waves (Rw[adl]A) solely due to measurement differences in the raw data. The R1[adl]W variables are not appropriate for comparison to the Rw[adl]A variables in other waves.

### **Cross Wave Differences in Original HRS Data**

Each wave has a series of questions about limits on activities of daily living (ADLs), but the ADLs, the question wording, and possible answers vary.

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime. In Wave 1 these include those identified as ADLs. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. ... Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...] ? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes from 1 for "not at all difficult" to 4 for "very difficult/can't do." Another code is used for the "Don't do" response. The specific wording for the ADLs is: walk across a room, get in and out of bed without help, bathe or shower without help, eat without help, and dress without help.

In Wave 2H the ADL questions continue to be embedded among other activities as in Wave 1, but the question and answers differ. The questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please tell me how difficult each of the following activities is for you. Exclude any difficulties that you expect to last less than three months. Do you have any difficulty with ...? [IF YES] Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; and 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments so may be observed less frequently than in other waves, simply because of questionnaire differences. This does not appear to have a large impact among the ADLs. The specific wording for the ADLs is: walking across the room, getting in and out of bed without help, bathing or showering without help, eating without help, and dressing without help.

In Waves 1 and 2H, if the Respondent reported no difficulty with jogging a mile, walking several blocks, or walking one block, then the question about walking across the room is skipped.

In Wave 2A, the question asks:

"We need to understand difficulties people may have with various activities because of a health or physical problem. Please tell me whether you get help or have any difficulty doing each of the everyday activities. If you never do that activity, just tell me so. Does anyone ever help you ...? Yes, No or Don't do. [IF YES] Do you get help most of the time, some of the time, only occasionally?"

The exact wording for the ADLs in the help question is: get across a room; get in and out of bed; bathe or shower; dress, including putting on socks and shoes; eat, such as cutting up your food; and use the toilet, including getting up and

down.

Regardless of whether any difficulty is reported for walking across the room: "Do you ever use equipment or devices such as a cane, walker or wheelchair when crossing a room?"

Regardless of whether any difficulty is reported for getting in and out of bed: "Do you ever use equipment or devices such as a rail, cane, walker, wheelchair or lift to help you get in and out of bed?"

For walking across a room and getting in and out of bed: "(Even when someone helps you/Even when using the (EQUIPMENT)/Without any help or special equipment) do you have any difficulty [...]? Yes or No. [if YES] Is that a lot or a little difficulty?" The exact wording for the task is: walking across the room and getting in and out of bed.

For other ADLS: "Do you have any difficulty [...] (even when someone helps you/without any help)? Yes or No. [if YES] Is that a lot or a little difficulty?" The exact wording for these tasks is: bathing, eating, dressing, and using the toilet.

Note that in Wave 2A, the question about getting help was asked before any difficulty and using equipment. If the Respondent answered "don't do" on the getting help question, then the questions on any difficulty and equipment are skipped. Note that there is no "Can't do" category.

From Wave 3 forward, the questions about ADLs are removed from the initial list of activities. If the Respondent has no difficulty with any of these activities then the questions about ADLs are skipped. Questions ask about ADLs ONLY if the Respondent reported difficulty with some activity on the initial list. The questions on ADLs ask:

"Here are a few more everyday activities. Please tell me if you have any difficulty with these because of a physical, mental, emotional or memory problem. Again exclude any difficulties you expect to last less than three months. Because of a health or memory problem do you have any difficulty with ...?"

The answers to the difficulty questions are simply: yes, no, can't do, or don't do. The exact wording for the ADLs is: walking across a room; dressing, including putting on socks and shoes; bathing or showering; eating, such as cutting up your food; getting in and out of bed; and using the toilet, including getting up and down.

Regardless of whether any difficulty is reported for walking across the room: "Do you ever use equipment or devices such as a cane, walker or wheelchair when crossing a room? Yes or No."

Regardless of whether any difficulty is reported for getting in and out of bed: "Do you ever use equipment or devices such as a cane, walker or railing when getting in or out of bed? Yes or No."

Unless the Respondent reports having no difficulty with an ADL, then s/he is asked:

"Does anyone ever help you [...]? Yes or No." The exact wording for each of the ADLs is: get across a room, dress, bathe, eat, get in or out of bed, and use the toilet.

From Wave 4 forward, the question organization and wording are the same as in Wave 3, with one exception. If the first basic ADL, dressing, showed no difficulty, and among the prior tasks at most one difficulty was reported, the rest of the basic ADLs of walking across a room, bathing, eating, getting in/out of bed, and using the toilet were skipped.

In Wave 7, a mistake in the Spanish instrument allowed "can't do" and "don't do" responses for the help questions, and a few of these responses are given for all of the ADLs except help with dressing and eating.

For HRS Respondents in Waves 1 and 2H, the information for the equipment and help questions is not available.

For Wave 2H, R2WALKRE, R2BEDE, R2WALKRH, are set to .Q and only Wave 2A Respondents have non-missing values for these variables. Also not asked in Waves 1 and 2H are all the questions about using the toilet, so for Wave 2H, R2TOILT and R2TOILTH are set to .Q.

## HRS Variables Used

### HRS 1992:

V304	B4A:RUN OR JOG 1 MIL:IMP
V305	B4B:WALK SEVERAL BLO:IMP
V306	B4C:WALK 1 BLOCK :IMP
V307	B4D:WALK ACROSS A RO:IMP
V310	B4G:IN/OUT BED UNaid:IMP
V316	B4P:BATHE/SHOWR W/O :IMP
V319	B4S:EAT W/O HELP :IMP
V320	B4T:DRESS W/O HELP :IMP

### AHEAD 1993:

B768	E33. ADL WALK HELP EVER
B770	E33b. WALK USE EQUIPMENT
B773	E33e. WALK ANY DIFFICULTY
B779	E35. ADL DRESS HELP EVER
B781	E35b. DRESS ANY DIFFICULTY
B787	E37. ADL BATHE HELP EVER
B789	E37b. BATHE ANY DIFFICULTY
B795	E39. ADL EAT GET HELP EVER
B797	E39b. EAT DIFFICULTY
B803	E41. ADL IN/OUT BED HELP EVER
B808	E43. BED USE EQUIPMENT EVER
B811	E43c. BED ANY DIFFICULTY
B814	E44. ADL TOILET HELP EVER
B816	E44b. TOILET ANY DIFFICULTY

### HRS 1994:

W306	B4.RUNNING/JOGGING 1 MIL
W307	B4a.WALKING SEVERAL BLOC
W308	B4b.WALKING ONE BLOCK
W309	B4c.WALKING ACROSS A ROO
W312	B4f.GETTING IN/OUT OF BE
W318	B4n.BATHING/SHOWERING WI
W321	B4r.EATING WITHOUT HELP
W322	B4s.DRESSING WITHOUT HEL

### AHEAD 1995:

D1870	ADLCK.CKPT FOR SKIPPING ADL SERIES
D1871	E72.WALK DIFF
D1874	E72C.WALK EQUIPMENT
D1877	E72F.ADL WALK HELP
D1884	E73.DRESS DIFF
D1887	E73F.ADL DRESS HELP
D1894	E74.BATHING DIFF
D1897	E74F.ADL BATHE HELP
D1904	E75.EAT DIFF
D1907	E75F.ADL EAT HELP
D1914	E76.BED DIFF
D1917	E76C.BED EQUIPMENT
D1920	E76F.ADL BED HELP
D1927	E77.TOILET DIFF
D1930	E77F.ADL TOILET HELP

### HRS 1996:

E1894	ADLCK.CKPT FOR SKIPPING ADL SERIES
E1895	E72.WALK DIFF

E1898	E72C.WALK EQUIPMENT
E1901	E72F.ADL WALK HELP
E1908	E73.DRESS DIFF
E1911	E73F.ADL DRESS HELP
E1918	E74.BATHING DIFF
E1921	E74F.ADL BATHE HELP
E1928	E75.EAT DIFF
E1931	E75F.ADL EAT HELP
E1938	E76.BED DIFF
E1941	E76C.BED EQUIPMENT
E1944	E76F.ADL BED HELP
E1951	E77.TOILET DIFF
E1954	E77F.ADL TOILET HELP
HRS 1998:	
F2421	E71.PICK DIME
F2425	E73F.DRESS DIFF
F2426	E73F.ADL DRESS HELP
F2427	E72.WALK DIFF
F2428	E72C.WALK EQUIPMENT
F2431	E72.ADL WALK HELP
F2444	E74.BATHING DIFF
F2447	E74F.ADL BATHE HELP
F2454	E75.EAT DIFF
F2457	E75F.ADL EAT HELP
F2464	E76.BED DIFF
F2467	E76C.BED EQUIPMENT
F2470	E76F.ADL BED HELP
F2477	E77.TOILET DIFF
F2480	E77F.ADL TOILET HELP
HRS 2000:	
G2719	E71.PICK DIME
G2723	E73Y1.DRESS DIFF
G2724	E73F.ADL DRESS HELP
G2725	E72.WALK DIFF
G2726	E72C.WALK EQUIPMENT
G2729	E72Y1.ADL WALK HELP
G2742	E74.BATHING DIFF
G2745	E74F.ADL BATHE HELP
G2752	E75.EAT DIFF
G2755	E75F.ADL EAT HELP
G2762	E76.BED DIFF
G2765	E76C.BED EQUIPMENT
G2768	E76F.ADL BED HELP
G2775	E77.TOILET DIFF
G2778	E77F.ADL TOILET HELP
HRS 2002:	
HG012	DIFFICULTY- PICKING UP DIME
HG014	DIFFICULTY- DRESSING
HG015	HELP W/DRESS
HG016	DIFFICULTY WALKING
HG017	WALK EQUIPMENT
HG020	ADL WALK HELP
HG021	DIFFICULTY BATHING
HG022	ADL BATHE HELP
HG023	DIFFICULTY EATING
HG024	ADL EAT HELP
HG025	DIFFICULTY GET IN/OUT BED
HG026	BED EQUIPMENT
HG029	ADL BED HELP



HG030	DIFFICULTY USING TOILET
HG031	ADL TOILET HELP
HRS 2004:	
JG012	DIFFICULTY- PICKING UP DIME
JG014	DIFFICULTY- DRESSING
JG015	HELP W/DRESS
JG016	DIFFICULTY WALKING
JG017	WALK EQUIPMENT
JG020	ADL WALK HELP
JG021	DIFFICULTY BATHING
JG022	ADL BATHE HELP
JG023	DIFFICULTY EATING
JG024	ADL EAT HELP
JG025	DIFFICULTY GET IN/OUT BED
JG026	BED EQUIPMENT
JG029	ADL BED HELP
JG030	DIFFICULTY USING TOILET
JG031	ADL TOILET HELP
HRS 2006:	
KG012	DIFFICULTY- PICKING UP DIME
KG014	DIFFICULTY- DRESSING
KG015	HELP W/DRESS
KG016	DIFFICULTY WALKING
KG017	WALK EQUIPMENT
KG020	ADL WALK HELP
KG021	DIFFICULTY BATHING
KG022	ADL BATHE HELP
KG023	DIFFICULTY EATING
KG024	ADL EAT HELP
KG025	DIFFICULTY GET IN/OUT BED
KG026	BED EQUIPMENT
KG029	ADL BED HELP
KG030	DIFFICULTY USING TOILET
KG031	ADL TOILET HELP
HRS 2008:	
LG012	DIFFICULTY- PICKING UP DIME
LG014	DIFFICULTY- DRESSING
LG015	HELP W/DRESS
LG016	DIFFICULTY WALKING
LG017	WALK EQUIPMENT
LG020	ADL WALK HELP
LG021	DIFFICULTY BATHING
LG022	ADL BATHE HELP
LG023	DIFFICULTY EATING
LG024	ADL EAT HELP
LG025	DIFFICULTY GET IN/OUT BED
LG026	BED EQUIPMENT
LG029	ADL BED HELP
LG030	DIFFICULTY USING TOILET
LG031	ADL TOILET HELP
HRS 2010:	
MG012	DIFFICULTY- PICKING UP DIME
MG014	DIFFICULTY- DRESSING
MG015	HELP W/DRESS
MG016	DIFFICULTY WALKING
MG017	WALK EQUIPMENT
MG020	ADL WALK HELP
MG021	DIFFICULTY BATHING
MG022	ADL BATHE HELP

MG023	DIFFICULTY EATING
MG024	ADL EAT HELP
MG025	DIFFICULTY GET IN/OUT BED
MG026	BED EQUIPMENT
MG029	ADL BED HELP
MG030	DIFFICULTY USING TOILET
MG031	ADL TOILET HELP
HRS 2012:	
NG012	DIFFICULTY- PICKING UP DIME
NG014	DIFFICULTY- DRESSING
NG015	HELP W/DRESS
NG016	DIFFICULTY WALKING
NG017	WALK EQUIPMENT
NG020	ADL WALK HELP
NG021	DIFFICULTY BATHING
NG022	ADL BATHE HELP
NG023	DIFFICULTY EATING
NG024	ADL EAT HELP
NG025	DIFFICULTY GET IN/OUT BED
NG026	BED EQUIPMENT
NG029	ADL BED HELP
NG030	DIFFICULTY USING TOILET
NG031	ADL TOILET HELP
HRS 2014:	
OG012	DIFFICULTY- PICKING UP DIME
OG014	DIFFICULTY- DRESSING
OG015	HELP W/DRESS
OG016	DIFFICULTY WALKING
OG017	WALK EQUIPMENT
OG020	ADL WALK HELP
OG021	DIFFICULTY BATHING
OG022	ADL BATHE HELP
OG023	DIFFICULTY EATING
OG024	ADL EAT HELP
OG025	DIFFICULTY GET IN/OUT BED
OG026	BED EQUIPMENT
OG029	ADL BED HELP
OG030	DIFFICULTY USING TOILET
OG031	ADL TOILET HELP

### Activities of daily living (ADLs): Some difficulty

Wave	Variable	Label	Type
2	R2WALKRA	R2WALKRA:W2 R Some Diff-Walk across room	Categ
3	R3WALKRA	R3WALKRA:W3 R Some Diff-Walk across room	Categ
4	R4WALKRA	R4WALKRA:W4 R Some Diff-Walk across room	Categ
5	R5WALKRA	R5WALKRA:W5 R Some Diff-Walk across room	Categ
6	R6WALKRA	R6WALKRA:W6 R Some Diff-Walk across room	Categ
7	R7WALKRA	R7WALKRA:W7 R Some Diff-Walk across room	Categ
8	R8WALKRA	R8WALKRA:W8 R Some Diff-Walk across room	Categ
9	R9WALKRA	R9WALKRA:W9 R Some Diff-Walk across room	Categ
10	R10WALKRA	R10WALKRA:W10 R Some Diff-Walk across room	Categ
11	R11WALKRA	R11WALKRA:W11 R Some Diff-Walk across room	Categ
12	R12WALKRA	R12WALKRA:W12 R Some Diff-Walk across room	Categ
2	S2WALKRA	S2WALKRA:W2 S Some Diff-Walk across room	Categ
3	S3WALKRA	S3WALKRA:W3 S Some Diff-Walk across room	Categ
4	S4WALKRA	S4WALKRA:W4 S Some Diff-Walk across room	Categ
5	S5WALKRA	S5WALKRA:W5 S Some Diff-Walk across room	Categ
6	S6WALKRA	S6WALKRA:W6 S Some Diff-Walk across room	Categ
7	S7WALKRA	S7WALKRA:W7 S Some Diff-Walk across room	Categ
8	S8WALKRA	S8WALKRA:W8 S Some Diff-Walk across room	Categ
9	S9WALKRA	S9WALKRA:W9 S Some Diff-Walk across room	Categ
10	S10WALKRA	S10WALKRA:W10 S Some Diff-Walk across room	Categ
11	S11WALKRA	S11WALKRA:W11 S Some Diff-Walk across room	Categ
12	S12WALKRA	S12WALKRA:W12 S Some Diff-Walk across room	Categ
2	R2DRESSA	R2DRESSA:W2 R Some Diff-Dressing	Categ
3	R3DRESSA	R3DRESSA:W3 R Some Diff-Dressing	Categ
4	R4DRESSA	R4DRESSA:W4 R Some Diff-Dressing	Categ
5	R5DRESSA	R5DRESSA:W5 R Some Diff-Dressing	Categ
6	R6DRESSA	R6DRESSA:W6 R Some Diff-Dressing	Categ
7	R7DRESSA	R7DRESSA:W7 R Some Diff-Dressing	Categ
8	R8DRESSA	R8DRESSA:W8 R Some Diff-Dressing	Categ
9	R9DRESSA	R9DRESSA:W9 R Some Diff-Dressing	Categ
10	R10DRESSA	R10DRESSA:W10 R Some Diff-Dressing	Categ
11	R11DRESSA	R11DRESSA:W11 R Some Diff-Dressing	Categ
12	R12DRESSA	R12DRESSA:W12 R Some Diff-Dressing	Categ
2	S2DRESSA	S2DRESSA:W2 S Some Diff-Dressing	Categ
3	S3DRESSA	S3DRESSA:W3 S Some Diff-Dressing	Categ
4	S4DRESSA	S4DRESSA:W4 S Some Diff-Dressing	Categ
5	S5DRESSA	S5DRESSA:W5 S Some Diff-Dressing	Categ
6	S6DRESSA	S6DRESSA:W6 S Some Diff-Dressing	Categ
7	S7DRESSA	S7DRESSA:W7 S Some Diff-Dressing	Categ
8	S8DRESSA	S8DRESSA:W8 S Some Diff-Dressing	Categ
9	S9DRESSA	S9DRESSA:W9 S Some Diff-Dressing	Categ
10	S10DRESSA	S10DRESSA:W10 S Some Diff-Dressing	Categ
11	S11DRESSA	S11DRESSA:W11 S Some Diff-Dressing	Categ
12	S12DRESSA	S12DRESSA:W12 S Some Diff-Dressing	Categ
2	R2BATHA	R2BATHA:W2 R Some Diff-Bathing, shower	Categ
3	R3BATHA	R3BATHA:W3 R Some Diff-Bathing, shower	Categ
4	R4BATHA	R4BATHA:W4 R Some Diff-Bathing, shower	Categ
5	R5BATHA	R5BATHA:W5 R Some Diff-Bathing, shower	Categ
6	R6BATHA	R6BATHA:W6 R Some Diff-Bathing, shower	Categ
7	R7BATHA	R7BATHA:W7 R Some Diff-Bathing, shower	Categ
8	R8BATHA	R8BATHA:W8 R Some Diff-Bathing, shower	Categ
9	R9BATHA	R9BATHA:W9 R Some Diff-Bathing, shower	Categ
10	R10BATHA	R10BATHA:W10 R Some Diff-Bathing, shower	Categ
11	R11BATHA	R11BATHA:W11 R Some Diff-Bathing, shower	Categ
12	R12BATHA	R12BATHA:W12 R Some Diff-Bathing, shower	Categ
2	S2BATHA	S2BATHA:W2 S Some Diff-Bathing, shower	Categ
3	S3BATHA	S3BATHA:W3 S Some Diff-Bathing, shower	Categ
4	S4BATHA	S4BATHA:W4 S Some Diff-Bathing, shower	Categ
5	S5BATHA	S5BATHA:W5 S Some Diff-Bathing, shower	Categ
6	S6BATHA	S6BATHA:W6 S Some Diff-Bathing, shower	Categ
7	S7BATHA	S7BATHA:W7 S Some Diff-Bathing, shower	Categ

8	S8BATHA	S8BATHA:W8 S Some Diff-Bathing, shower	Categ
9	S9BATHA	S9BATHA:W9 S Some Diff-Bathing, shower	Categ
10	S10BATHA	S10BATHA:W10 S Some Diff-Bathing, shower	Categ
11	S11BATHA	S11BATHA:W11 S Some Diff-Bathing, shower	Categ
12	S12BATHA	S12BATHA:W12 S Some Diff-Bathing, shower	Categ
2	R2EATA	R2EATA:W2 R Some Diff-Eating	Categ
3	R3EATA	R3EATA:W3 R Some Diff-Eating	Categ
4	R4EATA	R4EATA:W4 R Some Diff-Eating	Categ
5	R5EATA	R5EATA:W5 R Some Diff-Eating	Categ
6	R6EATA	R6EATA:W6 R Some Diff-Eating	Categ
7	R7EATA	R7EATA:W7 R Some Diff-Eating	Categ
8	R8EATA	R8EATA:W8 R Some Diff-Eating	Categ
9	R9EATA	R9EATA:W9 R Some Diff-Eating	Categ
10	R10EATA	R10EATA:W10 R Some Diff-Eating	Categ
11	R11EATA	R11EATA:W11 R Some Diff-Eating	Categ
12	R12EATA	R12EATA:W12 R Some Diff-Eating	Categ
2	S2EATA	S2EATA:W2 S Some Diff-Eating	Categ
3	S3EATA	S3EATA:W3 S Some Diff-Eating	Categ
4	S4EATA	S4EATA:W4 S Some Diff-Eating	Categ
5	S5EATA	S5EATA:W5 S Some Diff-Eating	Categ
6	S6EATA	S6EATA:W6 S Some Diff-Eating	Categ
7	S7EATA	S7EATA:W7 S Some Diff-Eating	Categ
8	S8EATA	S8EATA:W8 S Some Diff-Eating	Categ
9	S9EATA	S9EATA:W9 S Some Diff-Eating	Categ
10	S10EATA	S10EATA:W10 S Some Diff-Eating	Categ
11	S11EATA	S11EATA:W11 S Some Diff-Eating	Categ
12	S12EATA	S12EATA:W12 S Some Diff-Eating	Categ
2	R2BEDA	R2BEDA:W2 R Some Diff-Get in/out bed	Categ
3	R3BEDA	R3BEDA:W3 R Some Diff-Get in/out bed	Categ
4	R4BEDA	R4BEDA:W4 R Some Diff-Get in/out bed	Categ
5	R5BEDA	R5BEDA:W5 R Some Diff-Get in/out bed	Categ
6	R6BEDA	R6BEDA:W6 R Some Diff-Get in/out bed	Categ
7	R7BEDA	R7BEDA:W7 R Some Diff-Get in/out bed	Categ
8	R8BEDA	R8BEDA:W8 R Some Diff-Get in/out bed	Categ
9	R9BEDA	R9BEDA:W9 R Some Diff-Get in/out bed	Categ
10	R10BEDA	R10BEDA:W10 R Some Diff-Get in/out bed	Categ
11	R11BEDA	R11BEDA:W11 R Some Diff-Get in/out bed	Categ
12	R12BEDA	R12BEDA:W12 R Some Diff-Get in/out bed	Categ
2	S2BEDA	S2BEDA:W2 S Some Diff-Get in/out bed	Categ
3	S3BEDA	S3BEDA:W3 S Some Diff-Get in/out bed	Categ
4	S4BEDA	S4BEDA:W4 S Some Diff-Get in/out bed	Categ
5	S5BEDA	S5BEDA:W5 S Some Diff-Get in/out bed	Categ
6	S6BEDA	S6BEDA:W6 S Some Diff-Get in/out bed	Categ
7	S7BEDA	S7BEDA:W7 S Some Diff-Get in/out bed	Categ
8	S8BEDA	S8BEDA:W8 S Some Diff-Get in/out bed	Categ
9	S9BEDA	S9BEDA:W9 S Some Diff-Get in/out bed	Categ
10	S10BEDA	S10BEDA:W10 S Some Diff-Get in/out bed	Categ
11	S11BEDA	S11BEDA:W11 S Some Diff-Get in/out bed	Categ
12	S12BEDA	S12BEDA:W12 S Some Diff-Get in/out bed	Categ
2	R2TOILTA	R2TOILTA:W2 R Some Diff-Using the toilet	Categ
3	R3TOILTA	R3TOILTA:W3 R Some Diff-Using the toilet	Categ
4	R4TOILTA	R4TOILTA:W4 R Some Diff-Using the toilet	Categ
5	R5TOILTA	R5TOILTA:W5 R Some Diff-Using the toilet	Categ
6	R6TOILTA	R6TOILTA:W6 R Some Diff-Using the toilet	Categ
7	R7TOILTA	R7TOILTA:W7 R Some Diff-Using the toilet	Categ
8	R8TOILTA	R8TOILTA:W8 R Some Diff-Using the toilet	Categ
9	R9TOILTA	R9TOILTA:W9 R Some Diff-Using the toilet	Categ
10	R10TOILTA	R10TOILTA:W10 R Some Diff-Using the toilet	Categ
11	R11TOILTA	R11TOILTA:W11 R Some Diff-Using the toilet	Categ
12	R12TOILTA	R12TOILTA:W12 R Some Diff-Using the toilet	Categ
2	S2TOILTA	S2TOILTA:W2 S Some Diff-Using the toilet	Categ
3	S3TOILTA	S3TOILTA:W3 S Some Diff-Using the toilet	Categ
4	S4TOILTA	S4TOILTA:W4 S Some Diff-Using the toilet	Categ
5	S5TOILTA	S5TOILTA:W5 S Some Diff-Using the toilet	Categ
6	S6TOILTA	S6TOILTA:W6 S Some Diff-Using the toilet	Categ
7	S7TOILTA	S7TOILTA:W7 S Some Diff-Using the toilet	Categ

8	S8TOILTA	S8TOILTA:W8 S Some Diff-Using the toilet	Categ
9	S9TOILTA	S9TOILTA:W9 S Some Diff-Using the toilet	Categ
10	S10TOILTA	S10TOILTA:W10 S Some Diff-Using the toilet	Categ
11	S11TOILTA	S11TOILTA:W11 S Some Diff-Using the toilet	Categ
12	S12TOILTA	S12TOILTA:W12 S Some Diff-Using the toilet	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2WALKRA	19266	0.07	0.25	0.0	1.0
R3WALKRA	17933	0.07	0.26	0.0	1.0
R4WALKRA	21341	0.07	0.26	0.0	1.0
R5WALKRA	19532	0.08	0.27	0.0	1.0
R6WALKRA	18143	0.08	0.28	0.0	1.0
R7WALKRA	20103	0.08	0.27	0.0	1.0
R8WALKRA	18445	0.08	0.28	0.0	1.0
R9WALKRA	17193	0.09	0.28	0.0	1.0
R10WALKRA	21890	0.08	0.27	0.0	1.0
R11WALKRA	20525	0.08	0.27	0.0	1.0
R12WALKRA	18714	0.09	0.28	0.0	1.0
S2WALKRA	12806	0.05	0.21	0.0	1.0
S3WALKRA	11892	0.05	0.22	0.0	1.0
S4WALKRA	13965	0.05	0.21	0.0	1.0
S5WALKRA	12720	0.05	0.22	0.0	1.0
S6WALKRA	11632	0.05	0.23	0.0	1.0
S7WALKRA	12966	0.05	0.22	0.0	1.0
S8WALKRA	11732	0.05	0.23	0.0	1.0
S9WALKRA	10639	0.05	0.22	0.0	1.0
S10WALKRA	13429	0.05	0.22	0.0	1.0
S11WALKRA	12479	0.06	0.23	0.0	1.0
S12WALKRA	11021	0.06	0.23	0.0	1.0
R2DRESSA	19628	0.05	0.23	0.0	1.0
R3DRESSA	17938	0.10	0.31	0.0	1.0
R4DRESSA	21352	0.10	0.30	0.0	1.0
R5DRESSA	19551	0.11	0.31	0.0	1.0
R6DRESSA	18152	0.11	0.31	0.0	1.0
R7DRESSA	20114	0.10	0.30	0.0	1.0
R8DRESSA	18453	0.11	0.31	0.0	1.0
R9DRESSA	17204	0.11	0.32	0.0	1.0
R10DRESSA	21897	0.12	0.32	0.0	1.0
R11DRESSA	20523	0.11	0.32	0.0	1.0
R12DRESSA	18722	0.12	0.33	0.0	1.0
S2DRESSA	13079	0.04	0.19	0.0	1.0
S3DRESSA	11896	0.08	0.27	0.0	1.0
S4DRESSA	13968	0.08	0.27	0.0	1.0
S5DRESSA	12722	0.08	0.28	0.0	1.0
S6DRESSA	11635	0.08	0.27	0.0	1.0
S7DRESSA	12970	0.08	0.26	0.0	1.0
S8DRESSA	11732	0.09	0.28	0.0	1.0
S9DRESSA	10643	0.08	0.28	0.0	1.0
S10DRESSA	13434	0.09	0.29	0.0	1.0
S11DRESSA	12480	0.09	0.28	0.0	1.0
S12DRESSA	11021	0.10	0.29	0.0	1.0

R2BATHA	19627	0.05	0.22	0.0	1.0
R3BATHA	17930	0.08	0.27	0.0	1.0
R4BATHA	21350	0.08	0.27	0.0	1.0
R5BATHA	19546	0.08	0.27	0.0	1.0
R6BATHA	18151	0.09	0.28	0.0	1.0
R7BATHA	20107	0.08	0.27	0.0	1.0
R8BATHA	18451	0.08	0.28	0.0	1.0
R9BATHA	17202	0.09	0.28	0.0	1.0
R10BATHA	21895	0.09	0.28	0.0	1.0
R11BATHA	20524	0.09	0.28	0.0	1.0
R12BATHA	18723	0.09	0.29	0.0	1.0
S2BATHA	13081	0.03	0.18	0.0	1.0
S3BATHA	11897	0.05	0.21	0.0	1.0
S4BATHA	13970	0.05	0.22	0.0	1.0
S5BATHA	12723	0.05	0.22	0.0	1.0
S6BATHA	11635	0.05	0.22	0.0	1.0
S7BATHA	12968	0.05	0.21	0.0	1.0
S8BATHA	11732	0.05	0.22	0.0	1.0
S9BATHA	10642	0.05	0.22	0.0	1.0
S10BATHA	13431	0.05	0.22	0.0	1.0
S11BATHA	12480	0.05	0.23	0.0	1.0
S12BATHA	11021	0.06	0.23	0.0	1.0
R2EATA	19635	0.01	0.11	0.0	1.0
R3EATA	17943	0.04	0.19	0.0	1.0
R4EATA	21345	0.04	0.19	0.0	1.0
R5EATA	19548	0.04	0.19	0.0	1.0
R6EATA	18144	0.04	0.20	0.0	1.0
R7EATA	20098	0.04	0.19	0.0	1.0
R8EATA	18445	0.04	0.20	0.0	1.0
R9EATA	17197	0.04	0.20	0.0	1.0
R10EATA	21881	0.04	0.20	0.0	1.0
R11EATA	20519	0.04	0.21	0.0	1.0
R12EATA	18713	0.05	0.21	0.0	1.0
S2EATA	13082	0.01	0.08	0.0	1.0
S3EATA	11899	0.03	0.16	0.0	1.0
S4EATA	13966	0.03	0.16	0.0	1.0
S5EATA	12722	0.02	0.15	0.0	1.0
S6EATA	11631	0.02	0.15	0.0	1.0
S7EATA	12968	0.02	0.15	0.0	1.0
S8EATA	11730	0.03	0.16	0.0	1.0
S9EATA	10640	0.02	0.15	0.0	1.0
S10EATA	13427	0.03	0.16	0.0	1.0
S11EATA	12479	0.03	0.17	0.0	1.0
S12EATA	11020	0.03	0.17	0.0	1.0
R2BEDA	19621	0.05	0.22	0.0	1.0
R3BEDA	17942	0.07	0.26	0.0	1.0
R4BEDA	21344	0.07	0.26	0.0	1.0
R5BEDA	19547	0.07	0.26	0.0	1.0
R6BEDA	18137	0.07	0.26	0.0	1.0
R7BEDA	20104	0.07	0.25	0.0	1.0
R8BEDA	18445	0.07	0.26	0.0	1.0
R9BEDA	17193	0.07	0.26	0.0	1.0
R10BEDA	21883	0.08	0.27	0.0	1.0
R11BEDA	20510	0.08	0.27	0.0	1.0

R12BEDA	18707	0.08	0.27	0.0	1.0
S2BEDA	13072	0.04	0.19	0.0	1.0
S3BEDA	11899	0.05	0.23	0.0	1.0
S4BEDA	13966	0.05	0.22	0.0	1.0
S5BEDA	12723	0.05	0.22	0.0	1.0
S6BEDA	11631	0.05	0.22	0.0	1.0
S7BEDA	12964	0.05	0.21	0.0	1.0
S8BEDA	11725	0.06	0.23	0.0	1.0
S9BEDA	10639	0.05	0.22	0.0	1.0
S10BEDA	13429	0.06	0.24	0.0	1.0
S11BEDA	12475	0.06	0.24	0.0	1.0
S12BEDA	11015	0.06	0.24	0.0	1.0
R2TOILTA	8218	0.04	0.19	0.0	1.0
R3TOILTA	17937	0.06	0.23	0.0	1.0
R4TOILTA	21334	0.06	0.24	0.0	1.0
R5TOILTA	19533	0.06	0.24	0.0	1.0
R6TOILTA	18128	0.06	0.25	0.0	1.0
R7TOILTA	20083	0.06	0.24	0.0	1.0
R8TOILTA	18428	0.07	0.26	0.0	1.0
R9TOILTA	17176	0.07	0.25	0.0	1.0
R10TOILTA	21866	0.07	0.25	0.0	1.0
R11TOILTA	20509	0.07	0.26	0.0	1.0
R12TOILTA	18695	0.07	0.26	0.0	1.0
S2TOILTA	4347	0.02	0.15	0.0	1.0
S3TOILTA	11897	0.04	0.19	0.0	1.0
S4TOILTA	13961	0.04	0.20	0.0	1.0
S5TOILTA	12719	0.04	0.21	0.0	1.0
S6TOILTA	11627	0.04	0.20	0.0	1.0
S7TOILTA	12958	0.04	0.19	0.0	1.0
S8TOILTA	11722	0.05	0.21	0.0	1.0
S9TOILTA	10638	0.04	0.20	0.0	1.0
S10TOILTA	13421	0.05	0.21	0.0	1.0
S11TOILTA	12471	0.05	0.21	0.0	1.0
S12TOILTA	11016	0.05	0.22	0.0	1.0

## Categorical Variable Codes

Value	R2WALKRA	R3WALKRA	R4WALKRA	R5WALKRA	R6WALKRA	R7WALKRA
.D=DK/NA	353	2	1	3		1
.M=Oth missing	1					
.R=RF	1	2		3		1
.S=Skip		36	28	23	7	10
.X=Don't do	21	18	14	18	15	14
0.No	17954	16607	19789	18021	16630	18562
1.Yes	1312	1326	1552	1511	1513	1541

Value	R8WALKRA	R9WALKRA	R10WALKRA	R11WALKRA	R12WALKRA
.D=DK/NA	1	1	3	6	9
.R=RF	2	1	1	2	1
.S=Skip	7	9	131	18	16
.X=Don't do	14	13	9	3	7
0.No	16922	15719	20113	18845	17093
1.Yes	1523	1474	1777	1680	1621

Value	S2WALKRA	S3WALKRA	S4WALKRA	S5WALKRA	S6WALKRA	S7WALKRA
.D=DK/NA	268		1	1		1
.M=Oth missing	1					
.R=RF	1	1		2		1
.S=Skip		11	7	5		1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	12	11	5	2	4	3
0.No	12215	11310	13328	12070	11000	12326
1.Yes	591	582	637	650	632	640

Value	S8WALKRA	S9WALKRA	S10WALKRA	S11WALKRA	S12WALKRA
.D=DK/NA			1	4	3
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	2	5	4	1	
0.No	11100	10090	12716	11787	10396
1.Yes	632	549	713	692	625



Value	R2DRESSA	R3DRESSA	R4DRESSA	R5DRESSA	R6DRESSA	R7DRESSA
.D=DK/NA	2	2		3	4	3
.M=Oth missing	1	1				
.R=RF		1		1		1
.S=Skip		36	28	23	7	10
.X=Don't do	11	13	4	1	2	1
0.No	18574	16068	19160	17458	16216	18104
1.Yes	1054	1870	2192	2093	1936	2010

Value	R8DRESSA	R9DRESSA	R10DRESSA	R11DRESSA	R12DRESSA
.D=DK/NA	5		2	9	7
.R=RF	2		1	2	2
.S=Skip	7	9	131	18	16
.X=Don't do	2	4	3	2	
0.No	16398	15269	19328	18212	16411
1.Yes	2055	1935	2569	2311	2311

Value	S2DRESSA	S3DRESSA	S4DRESSA	S5DRESSA	S6DRESSA	S7DRESSA
.D=DK/NA				1	1	
.M=Oth missing	1					
.R=RF		1		1		1
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	8	7	3	1		
0.No	12603	10949	12855	11662	10705	11991
1.Yes	476	947	1113	1060	930	979

Value	S8DRESSA	S9DRESSA	S10DRESSA	S11DRESSA	S12DRESSA
.D=DK/NA	1			4	3
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	1	1			
0.No	10719	9762	12209	11419	9970
1.Yes	1013	881	1225	1061	1051

Value	R2BATHA	R3BATHA	R4BATHA	R5BATHA	R6BATHA	R7BATHA
.D=DK/NA	6	3	3	4	1	4
.M=Oth missing	1	1				
.R=RF		1				2
.S=Skip		36	28	23	7	10
.X=Don't do	8	20	3	6	6	6
0.No	18642	16562	19595	17936	16608	18514
1.Yes	985	1368	1755	1610	1543	1593

Value	R8BATHA	R9BATHA	R10BATHA	R11BATHA	R12BATHA
.D=DK/NA	2	1	4	7	6
.R=RF	2		1	2	
.S=Skip	7	9	131	18	16
.X=Don't do	7	5	3	3	2
0.No	16929	15711	20028	18736	16998
1.Yes	1522	1491	1867	1788	1725

Value	S2BATHA	S3BATHA	S4BATHA	S5BATHA	S6BATHA	S7BATHA
.D=DK/NA	3		1	1		
.M=Oth missing	1					
.R=RF		1				2
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	3	6		1	1	1
0.No	12651	11336	13243	12087	11048	12352
1.Yes	430	561	727	636	587	616

Value	S8BATHA	S9BATHA	S10BATHA	S11BATHA	S12BATHA
.D=DK/NA	1		1	2	3
.R=RF				1	
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	1	2	2	1	
0.No	11141	10107	12716	11802	10388
1.Yes	591	535	715	678	633

Value	R2EATA	R3EATA	R4EATA	R5EATA	R6EATA	R7EATA
.D=DK/NA	1	2	2	1	3	8
.M=Oth missing	1					
.R=RF	1	1				
.S=Skip		36	28	23	7	10
.X=Don't do	4	9	9	7	11	13
0.No	19410	17260	20529	18805	17405	19340
1.Yes	225	683	816	743	739	758

Value	R8EATA	R9EATA	R10EATA	R11EATA	R12EATA
.D=DK/NA	2	2	5	1	6
.R=RF	3		1	1	2
.S=Skip	7	9	131	18	16
.X=Don't do	12	9	16	15	10
0.No	17662	16483	20941	19617	17842
1.Yes	783	714	940	902	871

Value	S2EATA	S3EATA	S4EATA	S5EATA	S6EATA	S7EATA
.D=DK/NA	1		2		2	
.M=Oth missing	1					
.R=RF	1	1				
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	3	4	3	3	3	3
0.No	12989	11597	13608	12413	11346	12670
1.Yes	93	302	358	309	285	298

Value	S8EATA	S9EATA	S10EATA	S11EATA	S12EATA
.D=DK/NA		1	2	1	2
.R=RF	1				1
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	3	3	5	4	1
0.No	11414	10388	13057	12104	10682
1.Yes	316	252	370	375	338

Value	R2BEDA	R3BEDA	R4BEDA	R5BEDA	R6BEDA	R7BEDA
.D=DK/NA	7	3	4	4	2	2
.M=Oth missing	1					
.R=RF	2	1				
.S=Skip		36	28	23	7	10
.X=Don't do	11	9	8	5	19	13
0.No	18622	16599	19783	18150	16840	18773
1.Yes	999	1343	1561	1397	1297	1331

Value	R8BEDA	R9BEDA	R10BEDA	R11BEDA	R12BEDA
.D=DK/NA	3	2	6	9	11
.R=RF	3		1	2	1
.S=Skip	7	9	131	18	16
.X=Don't do	11	13	13	15	12
0.No	17080	15949	20149	18871	17169
1.Yes	1365	1244	1734	1639	1538

Value	S2BEDA	S3BEDA	S4BEDA	S5BEDA	S6BEDA	S7BEDA
.D=DK/NA	4		2	1	1	
.M=Oth missing	1					
.R=RF	2	1				
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	9	4	3	1	4	7
0.No	12557	11258	13220	12057	11053	12366
1.Yes	515	641	746	666	578	598

Value	S8BEDA	S9BEDA	S10BEDA	S11BEDA	S12BEDA
.D=DK/NA	1		1	4	5
.R=RF	1			1	
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	7	5	4	4	4
0.No	11072	10122	12641	11728	10349
1.Yes	653	517	788	747	666

Value	R2TOILTA	R3TOILTA	R4TOILTA	R5TOILTA	R6TOILTA	R7TOILTA
.D=DK/NA	2	2	6	7	5	4
.M=Oth missing	1					
.Q=Not asked this wv	11420					
.R=RF	1		1		1	1
.S=Skip		36	28	23	7	10
.X=Don't do		15	15	16	24	31
0.No	7925	16886	20015	18300	16962	18890
1.Yes	293	1051	1319	1233	1166	1193

Value	R8TOILTA	R9TOILTA	R10TOILTA	R11TOILTA	R12TOILTA
.D=DK/NA	2	3	13	3	12
.R=RF	4		2	2	1
.S=Skip	7	9	131	18	16
.X=Don't do	28	29	22	22	23
0.No	17115	16005	20351	19070	17324
1.Yes	1313	1171	1515	1439	1371

Value	S2TOILTA	S3TOILTA	S4TOILTA	S5TOILTA	S6TOILTA	S7TOILTA
.D=DK/NA	1		2		3	1
.M=Oth missing	1					
.Q=Not asked this wv	9123					
.R=RF		1	1		1	1
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=Don't do		6	7	6	5	11
0.No	4243	11442	13359	12154	11150	12462
1.Yes	104	455	602	565	477	496

Value	S8TOILTA	S9TOILTA	S10TOILTA	S11TOILTA	S12TOILTA
.D=DK/NA	1		4	1	2
.R=RF	2		1		
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	9	6	8	12	6
0.No	11167	10174	12817	11893	10470
1.Yes	555	464	604	578	546

## How Constructed

These variables recode raw data about difficulty with activities of daily living (ADLs) as yes/no dummy variables, where "1" means some difficulty and "0" means not. The ADLs include walking across a room (RwWALKRA), dressing (RwDRESSA), bathing (RwBATHA), eating (RwEATA), getting in and out of bed (RwBEDA), and using the toilet (RwTOILTA). In the following, references to Rw[adl]A apply to all these variables. Note that questions about using the toilet were not asked in Wave 2H. For HRS Respondents in Wave 2H, R2TOILTA is set to .Q (question not asked).

We attempt to make consistent variables across waves. Because of significant differences in question wording in Wave 1, we do not include these variables for this interview year. There are other cross wave differences in the way HRS presented these questions in Waves 2H and 2A and the later waves that may introduce measurement errors in these variables. In addition the criteria used for skipping some questions changed between Wave 3 and later waves, which may also influence the consistency of measurement before Wave 4 for all ADLs except dressing.

The variable derivations for some difficulty with ADLs(Rw[adl]A) vary across waves because the question and responses can vary across waves. In Wave 2, if a Respondent answers "yes" to the first question ("Do you have any difficulty with ...")

Rw[adl]A is set to "1" for "some difficulty," regardless of how much difficulty the Respondent says s/he has in the follow-up question. From Wave 3 forward, if a Respondent answers "yes" or "can't do" to the "any difficulty" question, Rw[adl]A is set to "1" for "some difficulty."

In all waves, if the Respondent answers "no" to the any difficulty question, Rw[adl]A is set to zero. A "don't do" response is recoded to missing value .X, since the Respondent hasn't revealed whether s/he would have difficulty with the activity if s/he ever did it. If the response is "don't know" or "refuse," Rw[adl]A is set to special missing codes .D or .R, respectively.

In some waves, questions about activities are skipped based on answers to previous questions. In Wave 2H, if a Respondent said no difficulty jogging a mile, walking several blocks, or walking one block, the question about walking across a room is skipped. In these cases, R2WALKRA is set to "0" for "no difficulty." This does not apply to Wave 2A.

From Wave 3 forward, ADL questions are skipped if no difficulty was reported with any of the tasks asked about earlier. In these cases, Rw[adl]A is set to "no difficulty." From Wave 4 forward, if difficulty with only one prior task and no difficulty with dressing was reported, the questions about the rest of the ADLs are skipped. In these cases, the rest of the Rw[adl]A variables are also set to "no difficulty." The assumption is that, since the Respondent had no difficulty with the earlier activities, s/he would also have reported no difficulty to the activities in the skipped questions.

In Wave 2A and from Wave 3 forward, there are questions about getting help with all ADLs. For waves when the help question is asked, we set Rw[adl]A to "yes" if Respondents answer "yes" to getting help and are missing Rw[adl]A, i.e., the response to the any difficulty question is "don't do," "don't know," or "refuse." A "can't do" response would have already been coded as "yes."

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

Some of these variables are used to construct a number of functional limitation indices, including an ADL summary index. Please see "ADL Summary" and "Other Summary Indices."

Another version of these variables simply recode the raw HRS variables. Please see the description of the Rw[adl] variables under "Activities of Daily Living (ADLs): Raw recodes" for this version.

A third version of ADL variables are derived for Wave 1 only (R1[adl]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "ADLs: Recodes for comparison to Wallace and Herzog" for a description of the R1[adl]W variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes described here for other waves (Rw[adl]A) solely due to measurement differences in the raw data. The R1[adl]W variables are not appropriate for comparison to the Rw[adl]A variables in other waves.

## Cross Wave Differences in Original HRS Data

Each wave has a series of questions about limits on activities of daily living (ADLs), but the ADLs, the question wording, and possible answers vary.

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime. In Wave 1 these include those identified as ADLs. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. ... Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...] ? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes from "1" for "not at all difficult" to "4" for "very difficult/can't do." Another code is used for the "Don't do" response. The specific wording for the ADLs is: walk across a room, get in and out of bed without help, bathe or shower without help, eat without help, and dress without help.

In Wave 2H the ADL questions continue to be embedded among other activities as in Wave 1 but the question and answers differ. The questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please tell me how difficult each of the following activities is for you. Exclude any difficulties that you expect to last less than three months. Do you have any difficulty with ...? [IF YES] Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments, so may be observed less frequently than in other waves, simply because of questionnaire differences. This does not appear to have a large impact among the ADLs. The specific wording for the ADLs is: walking across the room, getting in and out of bed without help, bathing or showering without help, eating without help, and dressing without help.

In Waves 1 and 2H, if the Respondent reported no difficulty with jogging a mile, walking several blocks, or walking one block, then the question about walking across the room is skipped.

In Wave 2A, the question asks:

"We need to understand difficulties people may have with various activities because of a health or physical problem. Please tell me whether you get help or have any difficulty doing each of the everyday activities. If you never do that activity, just tell me so. Does anyone ever help you ...? Yes, No or Don't do. [IF YES] Do you get help most of the time, some of the time, only occasionally?"

The exact wording for the ADLs in the help question is: get across a room; get in and out of bed; bathe or shower; dress, including putting on socks and shoes; eat, such as cutting up your food; and use the toilet, including getting up and down.

Regardless of whether any difficulty is reported for walking across the room: "Do you ever use equipment or devices such as a cane, walker or wheelchair when crossing a room?"

Regardless of whether any difficulty is reported for getting in and out of bed: "Do you ever use equipment or devices such as a rail, cane, walker, wheelchair or lift to help you get in and out of bed?"

For walking across a room and getting in and out of bed: "(Even when someone helps you/Even when using the (EQUIPMENT)/Without any help or special equipment) do you have any difficulty [...] ? Yes or No. [if YES] Is that a lot or a little difficulty? The exact wording for the task is: walking across the room and getting in and out of bed."

For other ADLs: "Do you have any difficulty [...] (even when someone helps you/without any help)? Yes or No. [if YES] Is that a lot or a little difficulty? The exact wording for these tasks is: bathing, eating, dressing, and using the toilet."

Note that in Wave 2A, the question about getting help was asked before any difficulty and using equipment. So if

the Respondent answered "don't do" on the getting help question, then the questions on any difficulty and equipment are skipped. Note that there is no "Can't do" category.

From Wave 3 forward, the questions about ADLs are removed from the initial list of activities. If the Respondent has no difficulty with any of these activities then the questions about ADLs are skipped. Questions ask about ADLs ONLY if the Respondent reported difficulty with some activity on the initial list. The questions on ADLs ask:

"Here are a few more everyday activities. Please tell me if you have any difficulty with these because of a physical, mental, emotional or memory problem. Again exclude any difficulties you expect to last less than three months. Because of a health or memory problem do you have any difficulty with ...?"

The answers to the difficulty questions are simply "yes," "no," "can't do," or "don't do. The exact wording for the ADLs is: walking across a room; dressing, including putting on socks and shoes; bathing or showering; eating, such as cutting up your food; getting in and out of bed; and using the toilet, including getting up and down.

Regardless of whether any difficulty is reported for walking across the room: "Do you ever use equipment or devices such as a cane, walker or wheelchair when crossing a room? Yes or No."

Regardless of whether any difficulty is reported for getting in and out of bed: "Do you ever use equipment or devices such as a cane, walker or railing when getting in or out of bed? Yes or No."

Unless the Respondent reports having no difficulty with an ADL then s/he is asked:

"Does anyone ever help you [...]? Yes or No." The exact wording for each of the ADLs is: get across a room, dress, bathe, eat, get in or out of bed, and use the toilet.

From Wave 4 forward, the question organization and wording are the same as in Wave 3, with one exception. If the first basic ADL, dressing, showed no difficulty, and among the prior tasks at most one difficulty was reported, the rest of the basic ADLs of walking across a room, bathing, eating, getting in/out of bed, and using the toilet were skipped.

In Wave 7, a mistake in the Spanish instrument allowed "can't do" and "don't do" responses for the help questions, and a few of these responses are given for all of the ADLs except help with dressing and eating.

In Waves 1 and 2H, questions about using the toilet are not asked, so for Wave 2H, R2TOILTA is set to .Q.

## HRS Variables Used

AHEAD 1993:

B768	E33. ADL WALK HELP EVER
B770	E33b. WALK USE EQUIPMENT
B773	E33e. WALK ANY DIFFICULTY
B779	E35. ADL DRESS HELP EVER
B781	E35b. DRESS ANY DIFFICULTY
B787	E37. ADL BATHE HELP EVER
B789	E37b. BATHE ANY DIFFICULTY
B795	E39. ADL EAT GET HELP EVER
B797	E39b. EAT DIFFICULTY
B803	E41. ADL IN/OUT BED HELP EVER
B808	E43. BED USE EQUIPMENT EVER
B811	E43c. BED ANY DIFFICULTY
B814	E44. ADL TOILET HELP EVER
B816	E44b. TOILET ANY DIFFICULTY



HRS 1994:  
W306 B4.RUNNING/JOGGING 1 MIL  
W307 B4a.WALKING SEVERAL BLOC  
W308 B4b.WALKING ONE BLOCK  
W309 B4c.WALKING ACROSS A ROO  
W312 B4f.GETTING IN/OUT OF BE  
W318 B4n.BATHING/SHOWERING WI  
W321 B4r.EATING WITHOUT HELP  
W322 B4s.DRESSING WITHOUT HEL

AHEAD 1995:  
D1870 ADLCK.CKPT FOR SKIPPING ADL SERIES  
D1871 E72.WALK DIFF  
D1874 E72C.WALK EQUIPMENT  
D1877 E72F.ADL WALK HELP  
D1884 E73.DRESS DIFF  
D1887 E73F.ADL DRESS HELP  
D1894 E74.BATHING DIFF  
D1897 E74F.ADL BATHE HELP  
D1904 E75.EAT DIFF  
D1907 E75F.ADL EAT HELP  
D1914 E76.BED DIFF  
D1917 E76C.BED EQUIPMENT  
D1920 E76F.ADL BED HELP  
D1927 E77.TOILET DIFF  
D1930 E77F.ADL TOILET HELP

HRS 1996:  
E1894 ADLCK.CKPT FOR SKIPPING ADL SERIES  
E1895 E72.WALK DIFF  
E1898 E72C.WALK EQUIPMENT  
E1901 E72F.ADL WALK HELP  
E1908 E73.DRESS DIFF  
E1911 E73F.ADL DRESS HELP  
E1918 E74.BATHING DIFF  
E1921 E74F.ADL BATHE HELP  
E1928 E75.EAT DIFF  
E1931 E75F.ADL EAT HELP  
E1938 E76.BED DIFF  
E1941 E76C.BED EQUIPMENT  
E1944 E76F.ADL BED HELP  
E1951 E77.TOILET DIFF  
E1954 E77F.ADL TOILET HELP

HRS 1998:  
F2421 E71.PICK DIME  
F2425 E73F.DRESS DIFF  
F2426 E73F.ADL DRESS HELP  
F2427 E72.WALK DIFF  
F2428 E72C.WALK EQUIPMENT  
F2431 E72.ADL WALK HELP  
F2444 E74.BATHING DIFF  
F2447 E74F.ADL BATHE HELP  
F2454 E75.EAT DIFF  
F2457 E75F.ADL EAT HELP  
F2464 E76.BED DIFF  
F2467 E76C.BED EQUIPMENT  
F2470 E76F.ADL BED HELP  
F2477 E77.TOILET DIFF  
F2480 E77F.ADL TOILET HELP

HRS 2000:  
G2719 E71.PICK DIME

G2723	E73Y1.DRESS DIFF
G2724	E73F.ADL DRESS HELP
G2725	E72.WALK DIFF
G2726	E72C.WALK EQUIPMENT
G2729	E72Y1.ADL WALK HELP
G2742	E74.BATHING DIFF
G2745	E74F.ADL BATHE HELP
G2752	E75.EAT DIFF
G2755	E75F.ADL EAT HELP
G2762	E76.BED DIFF
G2765	E76C.BED EQUIPMENT
G2768	E76F.ADL BED HELP
G2775	E77.TOILET DIFF
G2778	E77F.ADL TOILET HELP
HRS 2002:	
HG012	DIFFICULTY- PICKING UP DIME
HG014	DIFFICULTY- DRESSING
HG015	HELP W/DRESS
HG016	DIFFICULTY WALKING
HG017	WALK EQUIPMENT
HG020	ADL WALK HELP
HG021	DIFFICULTY BATHING
HG022	ADL BATHE HELP
HG023	DIFFICULTY EATING
HG024	ADL EAT HELP
HG025	DIFFICULTY GET IN/OUT BED
HG026	BED EQUIPMENT
HG029	ADL BED HELP
HG030	DIFFICULTY USING TOILET
HG031	ADL TOILET HELP
HRS 2004:	
JG012	DIFFICULTY- PICKING UP DIME
JG014	DIFFICULTY- DRESSING
JG015	HELP W/DRESS
JG016	DIFFICULTY WALKING
JG017	WALK EQUIPMENT
JG020	ADL WALK HELP
JG021	DIFFICULTY BATHING
JG022	ADL BATHE HELP
JG023	DIFFICULTY EATING
JG024	ADL EAT HELP
JG025	DIFFICULTY GET IN/OUT BED
JG026	BED EQUIPMENT
JG029	ADL BED HELP
JG030	DIFFICULTY USING TOILET
JG031	ADL TOILET HELP
HRS 2006:	
KG012	DIFFICULTY- PICKING UP DIME
KG014	DIFFICULTY- DRESSING
KG015	HELP W/DRESS
KG016	DIFFICULTY WALKING
KG017	WALK EQUIPMENT
KG020	ADL WALK HELP
KG021	DIFFICULTY BATHING
KG022	ADL BATHE HELP
KG023	DIFFICULTY EATING
KG024	ADL EAT HELP
KG025	DIFFICULTY GET IN/OUT BED
KG026	BED EQUIPMENT

KG029	ADL BED HELP
KG030	DIFFICULTY USING TOILET
KG031	ADL TOILET HELP
HRS 2008:	
LG012	DIFFICULTY- PICKING UP DIME
LG014	DIFFICULTY- DRESSING
LG015	HELP W/DRESS
LG016	DIFFICULTY WALKING
LG017	WALK EQUIPMENT
LG020	ADL WALK HELP
LG021	DIFFICULTY BATHING
LG022	ADL BATHE HELP
LG023	DIFFICULTY EATING
LG024	ADL EAT HELP
LG025	DIFFICULTY GET IN/OUT BED
LG026	BED EQUIPMENT
LG029	ADL BED HELP
LG030	DIFFICULTY USING TOILET
LG031	ADL TOILET HELP
HRS 2010:	
MG012	DIFFICULTY- PICKING UP DIME
MG014	DIFFICULTY- DRESSING
MG015	HELP W/DRESS
MG016	DIFFICULTY WALKING
MG017	WALK EQUIPMENT
MG020	ADL WALK HELP
MG021	DIFFICULTY BATHING
MG022	ADL BATHE HELP
MG023	DIFFICULTY EATING
MG024	ADL EAT HELP
MG025	DIFFICULTY GET IN/OUT BED
MG026	BED EQUIPMENT
MG029	ADL BED HELP
MG030	DIFFICULTY USING TOILET
MG031	ADL TOILET HELP
HRS 2012:	
NG012	DIFFICULTY- PICKING UP DIME
NG014	DIFFICULTY- DRESSING
NG015	HELP W/DRESS
NG016	DIFFICULTY WALKING
NG017	WALK EQUIPMENT
NG020	ADL WALK HELP
NG021	DIFFICULTY BATHING
NG022	ADL BATHE HELP
NG023	DIFFICULTY EATING
NG024	ADL EAT HELP
NG025	DIFFICULTY GET IN/OUT BED
NG026	BED EQUIPMENT
NG029	ADL BED HELP
NG030	DIFFICULTY USING TOILET
NG031	ADL TOILET HELP
HRS 2014:	
OG012	DIFFICULTY- PICKING UP DIME
OG014	DIFFICULTY- DRESSING
OG015	HELP W/DRESS
OG016	DIFFICULTY WALKING
OG017	WALK EQUIPMENT
OG020	ADL WALK HELP
OG021	DIFFICULTY BATHING

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OG022	ADL BATHE HELP
OG023	DIFFICULTY EATING
OG024	ADL EAT HELP
OG025	DIFFICULTY GET IN/OUT BED
OG026	BED EQUIPMENT
OG029	ADL BED HELP
OG030	DIFFICULTY USING TOILET
OG031	ADL TOILET HELP

### Activities of daily living (ADLs): Recodes for comparison to Wallace and Herzog

Wave	Variable	Label	Type
1	R1WALKRW	R1WALKRW:W1 R Any Diff-Walk across room	Categ
1	S1WALKRW	S1WALKRW:W1 S Any Diff-Walk across room	Categ
1	R1DRESSW	R1DRESSW:W1 R Any Diff-Dressing	Categ
1	S1DRESSW	S1DRESSW:W1 S Any Diff-Dressing	Categ
1	R1BATHW	R1BATHW:W1 R Any Diff-Bathing, shower	Categ
1	S1BATHW	S1BATHW:W1 S Any Diff-Bathing, shower	Categ
1	R1EATW	R1EATW:W1 R Any Diff-Eating	Categ
1	S1EATW	S1EATW:W1 S Any Diff-Eating	Categ
1	R1BEDW	R1BEDW:W1 R Any Diff-Get in/out of bed	Categ
1	S1BEDW	S1BEDW:W1 S Any Diff-Get in/out of bed	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKRW	12636	0.04	0.20	0.0	1.0
S1WALKRW	9886	0.04	0.19	0.0	1.0
R1DRESSW	12645	0.03	0.17	0.0	1.0
S1DRESSW	9895	0.02	0.15	0.0	1.0
R1BATHW	12639	0.04	0.21	0.0	1.0
S1BATHW	9892	0.03	0.18	0.0	1.0
R1EATW	12647	0.01	0.10	0.0	1.0
S1EATW	9896	0.01	0.09	0.0	1.0
R1BEDW	12642	0.08	0.27	0.0	1.0
S1BEDW	9893	0.07	0.25	0.0	1.0

## Categorical Variable Codes

Value	R1WALKRW
.X=Don't do	16
0.No	12102
1.Yes	534

Value	S1WALKRW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	14
0.No	9533
1.Yes	353

Value	R1DRESSW
.X=Don't do	7
0.No	12278
1.Yes	367

Value	S1DRESSW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	5
0.No	9655
1.Yes	240

Value	R1BATHW
.X=Don't do	13
0.No	12081
1.Yes	558

Value	S1BATHW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	8
0.No	9555
1.Yes	337

Value	R1EATW
.X=Don't do	5
0.No	12529
1.Yes	118

Value	S1EATW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	4
0.No	9819
1.Yes	77

Value	R1BEDW
.X=Don't do	10
0.No	11672
1.Yes	970

Value	S1BEDW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	7
0.No	9235
1.Yes	658

## How Constructed

These ADL variables are derived for Wave 1 only. They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper (Wallace and Herzog, 1995). These variables are provided for comparison to the results found in that paper.

Wallace and Herzog recode the ADL variables to 1 for "any difficulty" if the Respondent answered "a little difficult," "somewhat difficult" or "very difficult/can't do." A response of "not difficult at all" is recoded to zero. This recoding scheme is applied for these variables to attempt to replicate the results reported in their paper.

If a Respondent said no difficulty jogging a mile, walking several blocks, or walking one block, the RwWALKRW variable is set to "0" for "no difficulty."

The spouse variables are taken from the spouse's self-reported Wave 1 data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

There are several other versions of these variables. One version simply recodes the raw HRS variables. Please see the descriptions of these (RwWALKR, RwDRESS, RwEAT, RwBED, RwBATH) under "Activities of Daily Living (ADLs): Raw recodes."

Another version recodes a yes/no dummy variable in waves other than Wave 1, but these are not comparable with the Wallace and Herzog recodes. Please see the descriptions of these (RwWALKRA, RwDRESSA, RwEATA, RwBEDA, RwBATHA) under "Activities of Daily Living (ADLs): Some difficulty."

Some of the Wallace and Herzog indices are also derived and include some of these measures in creating an index. Please see "ADL Summary" and "Other Summary Indices."

## Cross Wave Differences in Original HRS Data

Each wave has a series of questions about limits on activities of daily living (ADLs), but the ADLs, the question wording, and possible answers vary.

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime. In Wave 1 these include those identified as ADLs. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. ... Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...] ? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes from 1 for "not at all difficult" to 4 for "very difficult/can't do." Another code is used for the "Don't do" response.

In subsequent waves, there is a question that simply asks if the Respondent has any difficulty with a particular activity. The question wording and possible answers are sufficiently different that the levels of Wave 1 codes cannot be derived from the data.

## HRS Variables Used

HRS 1992:	
V307	B4D:WALK ACROSS A RO:IMP
V310	B4G:IN/OUT BED UNAID:IMP
V316	B4P:BATHE/SHOWR W/O :IMP
V319	B4S:EAT W/O HELP :IMP
V320	B4T:DRESS W/O HELP :IMP



<b>Instrumental activities of daily living (IADLs): Raw recodes</b>
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Wave	Variable	Label	Type
1	R1MAP	R1MAP:W1 R Diff-Use a map	Categ
2	R2MAP	R2MAP:W2 R Diff-Use a map	Categ
3	R3MAP	R3MAP:W3 R Diff-Use a map	Categ
4	R4MAP	R4MAP:W4 R Diff-Use a map	Categ
5	R5MAP	R5MAP:W5 R Diff-Use a map	Categ
6	R6MAP	R6MAP:W6 R Diff-Use a map	Categ
7	R7MAP	R7MAP:W7 R Diff-Use a map	Categ
8	R8MAP	R8MAP:W8 R Diff-Use a map	Categ
9	R9MAP	R9MAP:W9 R Diff-Use a map	Categ
10	R10MAP	R10MAP:W10 R Diff-Use a map	Categ
11	R11MAP	R11MAP:W11 R Diff-Use a map	Categ
12	R12MAP	R12MAP:W12 R Diff-Use a map	Categ
1	S1MAP	S1MAP:W1 S Diff-Use a map	Categ
2	S2MAP	S2MAP:W2 S Diff-Use a map	Categ
3	S3MAP	S3MAP:W3 S Diff-Use a map	Categ
4	S4MAP	S4MAP:W4 S Diff-Use a map	Categ
5	S5MAP	S5MAP:W5 S Diff-Use a map	Categ
6	S6MAP	S6MAP:W6 S Diff-Use a map	Categ
7	S7MAP	S7MAP:W7 S Diff-Use a map	Categ
8	S8MAP	S8MAP:W8 S Diff-Use a map	Categ
9	S9MAP	S9MAP:W9 S Diff-Use a map	Categ
10	S10MAP	S10MAP:W10 S Diff-Use a map	Categ
11	S11MAP	S11MAP:W11 S Diff-Use a map	Categ
12	S12MAP	S12MAP:W12 S Diff-Use a map	Categ
1	R1CALC	R1CALC:W1 R Diff-Use a calculator	Categ
2	R2CALC	R2CALC:W2 R Diff-Use a calculator	Categ
1	S1CALC	S1CALC:W1 S Diff-Use a calculator	Categ
2	S2CALC	S2CALC:W2 S Diff-Use a calculator	Categ
1	R1MCWV	R1MCWV:W1 R Diff-Use a microwave	Categ
1	S1MCWV	S1MCWV:W1 S Diff-Use a microwave	Categ
1	R1COMP	R1COMP:W1 R Diff-Use a computer	Categ
1	S1COMP	S1COMP:W1 S Diff-Use a computer	Categ
2	R2PHONE	R2PHONE:W2 R Diff-Use telephone	Categ
3	R3PHONE	R3PHONE:W3 R Diff-Use telephone	Categ
4	R4PHONE	R4PHONE:W4 R Diff-Use telephone	Categ
5	R5PHONE	R5PHONE:W5 R Diff-Use telephone	Categ
6	R6PHONE	R6PHONE:W6 R Diff-Use telephone	Categ
7	R7PHONE	R7PHONE:W7 R Diff-Use telephone	Categ
8	R8PHONE	R8PHONE:W8 R Diff-Use telephone	Categ
9	R9PHONE	R9PHONE:W9 R Diff-Use telephone	Categ
10	R10PHONE	R10PHONE:W10 R Diff-Use telephone	Categ
11	R11PHONE	R11PHONE:W11 R Diff-Use telephone	Categ
12	R12PHONE	R12PHONE:W12 R Diff-Use telephone	Categ
2	S2PHONE	S2PHONE:W2 S Diff-Use telephone	Categ
3	S3PHONE	S3PHONE:W3 S Diff-Use telephone	Categ
4	S4PHONE	S4PHONE:W4 S Diff-Use telephone	Categ
5	S5PHONE	S5PHONE:W5 S Diff-Use telephone	Categ
6	S6PHONE	S6PHONE:W6 S Diff-Use telephone	Categ
7	S7PHONE	S7PHONE:W7 S Diff-Use telephone	Categ
8	S8PHONE	S8PHONE:W8 S Diff-Use telephone	Categ
9	S9PHONE	S9PHONE:W9 S Diff-Use telephone	Categ
10	S10PHONE	S10PHONE:W10 S Diff-Use telephone	Categ
11	S11PHONE	S11PHONE:W11 S Diff-Use telephone	Categ
12	S12PHONE	S12PHONE:W12 S Diff-Use telephone	Categ
2	R2PHONER	R2PHONER:W2 R Diff-Use telephone	Categ

2	S2PHONER	S2PHONER:W2 S Diff-Use telephone	Categ
2	R2MONEY	R2MONEY:W2 R Diff-Managing money	Categ
3	R3MONEY	R3MONEY:W3 R Diff-Managing money	Categ
4	R4MONEY	R4MONEY:W4 R Diff-Managing money	Categ
5	R5MONEY	R5MONEY:W5 R Diff-Managing money	Categ
6	R6MONEY	R6MONEY:W6 R Diff-Managing money	Categ
7	R7MONEY	R7MONEY:W7 R Diff-Managing money	Categ
8	R8MONEY	R8MONEY:W8 R Diff-Managing money	Categ
9	R9MONEY	R9MONEY:W9 R Diff-Managing money	Categ
10	R10MONEY	R10MONEY:W10 R Diff-Managing money	Categ
11	R11MONEY	R11MONEY:W11 R Diff-Managing money	Categ
12	R12MONEY	R12MONEY:W12 R Diff-Managing money	Categ
2	S2MONEY	S2MONEY:W2 S Diff-Managing money	Categ
3	S3MONEY	S3MONEY:W3 S Diff-Managing money	Categ
4	S4MONEY	S4MONEY:W4 S Diff-Managing money	Categ
5	S5MONEY	S5MONEY:W5 S Diff-Managing money	Categ
6	S6MONEY	S6MONEY:W6 S Diff-Managing money	Categ
7	S7MONEY	S7MONEY:W7 S Diff-Managing money	Categ
8	S8MONEY	S8MONEY:W8 S Diff-Managing money	Categ
9	S9MONEY	S9MONEY:W9 S Diff-Managing money	Categ
10	S10MONEY	S10MONEY:W10 S Diff-Managing money	Categ
11	S11MONEY	S11MONEY:W11 S Diff-Managing money	Categ
12	S12MONEY	S12MONEY:W12 S Diff-Managing money	Categ
2	R2MONEYR	R2MONEYR:W2 R Diff-Managing money	Categ
2	S2MONEYR	S2MONEYR:W2 S Diff-Managing money	Categ
2	R2MEDS	R2MEDS:W2 R Diff-Take medications	Categ
3	R3MEDS	R3MEDS:W3 R Diff-Take medications	Categ
4	R4MEDS	R4MEDS:W4 R Diff-Take medications	Categ
5	R5MEDS	R5MEDS:W5 R Diff-Take medications	Categ
6	R6MEDS	R6MEDS:W6 R Diff-Take medications	Categ
7	R7MEDS	R7MEDS:W7 R Diff-Take medications	Categ
8	R8MEDS	R8MEDS:W8 R Diff-Take medications	Categ
9	R9MEDS	R9MEDS:W9 R Diff-Take medications	Categ
10	R10MEDS	R10MEDS:W10 R Diff-Take medications	Categ
11	R11MEDS	R11MEDS:W11 R Diff-Take medications	Categ
12	R12MEDS	R12MEDS:W12 R Diff-Take medications	Categ
2	S2MEDS	S2MEDS:W2 S Diff-Take medications	Categ
3	S3MEDS	S3MEDS:W3 S Diff-Take medications	Categ
4	S4MEDS	S4MEDS:W4 S Diff-Take medications	Categ
5	S5MEDS	S5MEDS:W5 S Diff-Take medications	Categ
6	S6MEDS	S6MEDS:W6 S Diff-Take medications	Categ
7	S7MEDS	S7MEDS:W7 S Diff-Take medications	Categ
8	S8MEDS	S8MEDS:W8 S Diff-Take medications	Categ
9	S9MEDS	S9MEDS:W9 S Diff-Take medications	Categ
10	S10MEDS	S10MEDS:W10 S Diff-Take medications	Categ
11	S11MEDS	S11MEDS:W11 S Diff-Take medications	Categ
12	S12MEDS	S12MEDS:W12 S Diff-Take medications	Categ
2	R2MEDSR	R2MEDSR:W2 R Diff-Take medications	Categ
2	S2MEDSR	S2MEDSR:W2 S Diff-Take medications	Categ
3	R3SHOP	R3SHOP:W3 R Diff-Shop for groceries	Categ
4	R4SHOP	R4SHOP:W4 R Diff-Shop for groceries	Categ
5	R5SHOP	R5SHOP:W5 R Diff-Shop for groceries	Categ
6	R6SHOP	R6SHOP:W6 R Diff-Shop for groceries	Categ
7	R7SHOP	R7SHOP:W7 R Diff-Shop for groceries	Categ
8	R8SHOP	R8SHOP:W8 R Diff-Shop for groceries	Categ
9	R9SHOP	R9SHOP:W9 R Diff-Shop for groceries	Categ
10	R10SHOP	R10SHOP:W10 R Diff-Shop for groceries	Categ
11	R11SHOP	R11SHOP:W11 R Diff-Shop for groceries	Categ
12	R12SHOP	R12SHOP:W12 R Diff-Shop for groceries	Categ
3	S3SHOP	S3SHOP:W3 S Diff-Shop for groceries	Categ
4	S4SHOP	S4SHOP:W4 S Diff-Shop for groceries	Categ
5	S5SHOP	S5SHOP:W5 S Diff-Shop for groceries	Categ

6	S6SHOP	S6SHOP:W6 S Diff-Shop for groceries	Categ
7	S7SHOP	S7SHOP:W7 S Diff-Shop for groceries	Categ
8	S8SHOP	S8SHOP:W8 S Diff-Shop for groceries	Categ
9	S9SHOP	S9SHOP:W9 S Diff-Shop for groceries	Categ
10	S10SHOP	S10SHOP:W10 S Diff-Shop for groceries	Categ
11	S11SHOP	S11SHOP:W11 S Diff-Shop for groceries	Categ
12	S12SHOP	S12SHOP:W12 S Diff-Shop for groceries	Categ
2	R2SHOPR	R2SHOPR:W2 R Diff-Shop for groceries	Categ
2	S2SHOPR	S2SHOPR:W2 S Diff-Shop for groceries	Categ
3	R3MEALS	R3MEALS:W3 R Diff-Preparing hot meals	Categ
4	R4MEALS	R4MEALS:W4 R Diff-Preparing hot meals	Categ
5	R5MEALS	R5MEALS:W5 R Diff-Preparing hot meals	Categ
6	R6MEALS	R6MEALS:W6 R Diff-Preparing hot meals	Categ
7	R7MEALS	R7MEALS:W7 R Diff-Preparing hot meals	Categ
8	R8MEALS	R8MEALS:W8 R Diff-Preparing hot meals	Categ
9	R9MEALS	R9MEALS:W9 R Diff-Preparing hot meals	Categ
10	R10MEALS	R10MEALS:W10 R Diff-Preparing hot meals	Categ
11	R11MEALS	R11MEALS:W11 R Diff-Preparing hot meals	Categ
12	R12MEALS	R12MEALS:W12 R Diff-Preparing hot meals	Categ
3	S3MEALS	S3MEALS:W3 S Diff-Preparing hot meals	Categ
4	S4MEALS	S4MEALS:W4 S Diff-Preparing hot meals	Categ
5	S5MEALS	S5MEALS:W5 S Diff-Preparing hot meals	Categ
6	S6MEALS	S6MEALS:W6 S Diff-Preparing hot meals	Categ
7	S7MEALS	S7MEALS:W7 S Diff-Preparing hot meals	Categ
8	S8MEALS	S8MEALS:W8 S Diff-Preparing hot meals	Categ
9	S9MEALS	S9MEALS:W9 S Diff-Preparing hot meals	Categ
10	S10MEALS	S10MEALS:W10 S Diff-Preparing hot meals	Categ
11	S11MEALS	S11MEALS:W11 S Diff-Preparing hot meals	Categ
12	S12MEALS	S12MEALS:W12 S Diff-Preparing hot meals	Categ
2	R2MEALSR	R2MEALSR:W2 R Diff-Preparing hot meals	Categ
2	S2MEALSR	S2MEALSR:W2 S Diff-Preparing hot meals	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MAP	12652	1.84	1.68	1.0	9.0
R2MAP	11400	0.38	1.03	0.0	9.0
R3MAP	17943	1.45	3.09	0.0	9.0
R4MAP	21332	1.33	3.02	0.0	9.0
R5MAP	19538	1.42	3.10	0.0	9.0
R6MAP	18140	1.34	3.01	0.0	9.0
R7MAP	20103	1.30	2.98	0.0	9.0
R8MAP	18444	1.23	2.89	0.0	9.0
R9MAP	17191	1.25	2.92	0.0	9.0
R10MAP	21862	0.82	2.35	0.0	9.0
R11MAP	20493	0.80	2.32	0.0	9.0
R12MAP	18687	0.78	2.25	0.0	9.0
S1MAP	9900	1.74	1.53	1.0	9.0
S2MAP	8725	0.33	0.91	0.0	9.0
S3MAP	11899	0.96	2.55	0.0	9.0
S4MAP	13964	0.91	2.54	0.0	9.0
S5MAP	12719	0.99	2.65	0.0	9.0
S6MAP	11626	0.87	2.47	0.0	9.0
S7MAP	12963	0.86	2.48	0.0	9.0
S8MAP	11724	0.83	2.42	0.0	9.0

S9MAP	10636	0.78	2.34	0.0	9.0
S10MAP	13421	0.53	1.88	0.0	9.0
S11MAP	12465	0.52	1.86	0.0	9.0
S12MAP	11007	0.51	1.81	0.0	9.0
R1CALC	12652	2.06	2.52	1.0	9.0
R2CALC	11398	0.41	1.59	0.0	9.0
S1CALC	9900	1.95	2.40	1.0	9.0
S2CALC	8720	0.37	1.52	0.0	9.0
R1MCWV	12652	1.51	1.69	1.0	9.0
S1MCWV	9900	1.42	1.51	1.0	9.0
R1COMP	12652	4.88	3.61	1.0	9.0
S1COMP	9900	4.82	3.61	1.0	9.0
R2PHONE	11416	0.05	0.39	0.0	9.0
R3PHONE	17951	0.12	0.74	0.0	9.0
R4PHONE	21349	0.12	0.72	0.0	9.0
R5PHONE	19551	0.13	0.78	0.0	9.0
R6PHONE	18157	0.12	0.73	0.0	9.0
R7PHONE	20109	0.12	0.72	0.0	9.0
R8PHONE	18457	0.11	0.68	0.0	9.0
R9PHONE	17202	0.12	0.72	0.0	9.0
R10PHONE	21892	0.09	0.54	0.0	9.0
R11PHONE	20529	0.09	0.56	0.0	9.0
R12PHONE	18724	0.09	0.52	0.0	9.0
S2PHONE	8736	0.04	0.37	0.0	9.0
S3PHONE	11902	0.09	0.65	0.0	9.0
S4PHONE	13970	0.09	0.65	0.0	9.0
S5PHONE	12724	0.10	0.71	0.0	9.0
S6PHONE	11636	0.08	0.61	0.0	9.0
S7PHONE	12966	0.08	0.63	0.0	9.0
S8PHONE	11733	0.08	0.62	0.0	9.0
S9PHONE	10639	0.09	0.65	0.0	9.0
S10PHONE	13427	0.06	0.46	0.0	9.0
S11PHONE	12482	0.07	0.50	0.0	9.0
S12PHONE	11021	0.07	0.50	0.0	9.0
R2PHONER	8219	0.10	0.65	0.0	9.0
S2PHONER	4348	0.09	0.60	0.0	9.0
R2MONEY	11415	0.11	0.64	0.0	9.0
R3MONEY	17950	0.37	1.56	0.0	9.0
R4MONEY	21349	0.35	1.54	0.0	9.0
R5MONEY	19548	0.38	1.60	0.0	9.0
R6MONEY	18152	0.40	1.61	0.0	9.0
R7MONEY	20107	0.43	1.71	0.0	9.0
R8MONEY	18456	0.45	1.74	0.0	9.0
R9MONEY	17203	0.44	1.72	0.0	9.0
R10MONEY	21880	0.35	1.49	0.0	9.0
R11MONEY	20523	0.32	1.42	0.0	9.0
R12MONEY	18716	0.33	1.43	0.0	9.0

S2MONEY	8735	0.10	0.65	0.0	9.0
S3MONEY	11901	0.41	1.74	0.0	9.0
S4MONEY	13970	0.37	1.66	0.0	9.0
S5MONEY	12721	0.42	1.77	0.0	9.0
S6MONEY	11631	0.42	1.78	0.0	9.0
S7MONEY	12966	0.46	1.88	0.0	9.0
S8MONEY	11731	0.49	1.92	0.0	9.0
S9MONEY	10641	0.47	1.89	0.0	9.0
S10MONEY	13423	0.38	1.65	0.0	9.0
S11MONEY	12482	0.34	1.57	0.0	9.0
S12MONEY	11020	0.37	1.63	0.0	9.0
R2MONEYR	8214	0.88	2.54	0.0	9.0
S2MONEYR	4344	1.15	2.91	0.0	9.0
R2MEDS	11414	0.13	0.91	0.0	9.0
R3MEDS	17950	0.67	2.28	0.0	9.0
R4MEDS	20068	0.06	0.45	0.0	9.0
R5MEDS	18546	0.06	0.40	0.0	9.0
R6MEDS	17776	0.05	0.30	0.0	9.0
R7MEDS	19696	0.05	0.33	0.0	9.0
R8MEDS	18206	0.06	0.32	0.0	9.0
R9MEDS	17012	0.06	0.32	0.0	9.0
R10MEDS	21622	0.06	0.40	0.0	9.0
R11MEDS	20291	0.06	0.34	0.0	9.0
R12MEDS	18501	0.06	0.40	0.0	9.0
S2MEDS	8733	0.12	0.88	0.0	9.0
S3MEDS	11902	0.66	2.30	0.0	9.0
S4MEDS	13137	0.05	0.42	0.0	9.0
S5MEDS	12052	0.04	0.35	0.0	9.0
S6MEDS	11414	0.03	0.24	0.0	9.0
S7MEDS	12741	0.04	0.30	0.0	9.0
S8MEDS	11590	0.04	0.28	0.0	9.0
S9MEDS	10546	0.04	0.27	0.0	9.0
S10MEDS	13282	0.05	0.37	0.0	9.0
S11MEDS	12345	0.04	0.25	0.0	9.0
S12MEDS	10901	0.05	0.38	0.0	9.0
R2MEDSR	8221	0.17	1.05	0.0	9.0
S2MEDSR	4348	0.12	0.84	0.0	9.0
R3SHOP	17950	0.47	1.70	0.0	9.0
R4SHOP	21350	0.45	1.67	0.0	9.0
R5SHOP	19551	0.48	1.73	0.0	9.0
R6SHOP	18157	0.48	1.71	0.0	9.0
R7SHOP	20074	0.45	1.67	0.0	9.0
R8SHOP	18458	0.45	1.63	0.0	9.0
R9SHOP	17206	0.43	1.59	0.0	9.0
R10SHOP	21887	0.29	1.22	0.0	9.0
R11SHOP	20520	0.28	1.16	0.0	9.0
R12SHOP	18720	0.27	1.15	0.0	9.0
S3SHOP	11902	0.45	1.76	0.0	9.0
S4SHOP	13970	0.40	1.67	0.0	9.0
S5SHOP	12724	0.44	1.75	0.0	9.0
S6SHOP	11635	0.42	1.71	0.0	9.0

S7SHOP	12956	0.41	1.71	0.0	9.0
S8SHOP	11732	0.40	1.64	0.0	9.0
S9SHOP	10642	0.36	1.55	0.0	9.0
S10SHOP	13427	0.23	1.14	0.0	9.0
S11SHOP	12476	0.22	1.09	0.0	9.0
S12SHOP	11019	0.22	1.10	0.0	9.0
R2SHOPR	8220	0.46	1.52	0.0	9.0
S2SHOPR	4347	0.44	1.61	0.0	9.0
R3MEALS	17951	0.59	2.05	0.0	9.0
R4MEALS	21350	0.56	2.01	0.0	9.0
R5MEALS	19549	0.61	2.07	0.0	9.0
R6MEALS	18155	0.63	2.10	0.0	9.0
R7MEALS	20112	0.57	2.02	0.0	9.0
R8MEALS	18459	0.52	1.90	0.0	9.0
R9MEALS	17205	0.51	1.87	0.0	9.0
R10MEALS	21887	0.33	1.45	0.0	9.0
R11MEALS	20523	0.32	1.42	0.0	9.0
R12MEALS	18719	0.29	1.33	0.0	9.0
S3MEALS	11902	0.65	2.24	0.0	9.0
S4MEALS	13971	0.60	2.15	0.0	9.0
S5MEALS	12724	0.64	2.21	0.0	9.0
S6MEALS	11634	0.65	2.22	0.0	9.0
S7MEALS	12967	0.59	2.12	0.0	9.0
S8MEALS	11732	0.51	1.95	0.0	9.0
S9MEALS	10643	0.50	1.93	0.0	9.0
S10MEALS	13427	0.30	1.45	0.0	9.0
S11MEALS	12478	0.28	1.40	0.0	9.0
S12MEALS	11016	0.27	1.35	0.0	9.0
R2MEALSR	8220	0.59	2.02	0.0	9.0
S2MEALSR	4348	0.79	2.41	0.0	9.0

## Categorical Variable Codes

Value	R1MAP
1.Not at all diff	8225
2.A little diff	1997
3.Somewhat diff	957
4.Very diff/can't do	1009
9.Don't do	464

Value	R2MAP
.D=DK/NA	18
.Q=Not asked this wv	8222
.R=RF	2
0.No	8949
1.Yes,a little	1244
2.Yes,a lot	1106
3.Yes,DK/NA how much	2
4.Yes,RF how much	1
9.Don't do	98

Value	R3MAP	R4MAP	R5MAP	R6MAP	R7MAP
.D=DK/NA	8	18	14	18	10
.R=RF	4	6	3		6
.S=Skip	36	28	24	7	10
0.No	12656	16175	14614	13596	15287
1.Yes	2198	1599	1393	1437	1504
2.Can't do	568	745	782	724	742
9.Don't do	2521	2813	2749	2383	2570

Value	R8MAP	R9MAP	R10MAP	R11MAP	R12MAP
.D=DK/NA	15	14	31	36	34
.R=RF	3	3	6	7	9
.S=Skip	7	9	135	18	17
0.No	14013	13038	17338	16252	14600
1.Yes	1546	1480	2516	2374	2512
2.Can't do	699	576	394	384	311
9.Don't do	2186	2097	1614	1483	1264

Value	S1MAP
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	6644
2.A little diff	1543
3.Somewhat diff	747
4.Very diff/can't do	686
9.Don't do	280

Value	S2MAP
.D=DK/NA	12
.Q=Not asked this wv	4549
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	384
0.No	7037
1.Yes,a little	921
2.Yes,a lot	710
3.Yes,DK/NA how much	2
4.Yes,RF how much	1
9.Don't do	54

Value	S3MAP	S4MAP	S5MAP	S6MAP	S7MAP
.D=DK/NA	3	6	5	10	4
.R=RF	2	1	1		4
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	9224	11466	10334	9533	10712
1.Yes	1348	909	779	827	829
2.Can't do	263	360	380	308	348
9.Don't do	1064	1229	1226	958	1074

Value	S8MAP	S9MAP	S10MAP	S11MAP	S12MAP
.D=DK/NA	7	7	8	17	13
.R=RF	3	1	3	2	3
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9673	8835	11361	10566	9219
1.Yes	810	775	1279	1185	1208
2.Can't do	316	251	174	166	123
9.Don't do	925	775	607	548	457



Value	R1CALC
1.Not at all diff	9979
2.A little diff	664
3.Somewhat diff	257
4.Very diff/can't do	354
9.Don't do	1398

Value	R2CALC
.D=DK/NA	19
.Q=Not asked this wv	8222
.R=RF	3
0.No	10050
1.Yes,a little	452
2.Yes,a lot	546
3.Yes,DK/NA how much	4
9.Don't do	346

Value	S1CALC
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	7973
2.A little diff	522
3.Somewhat diff	190
4.Very diff/can't do	238
9.Don't do	977

Value	S2CALC
.D=DK/NA	16
.Q=Not asked this wv	4549
.R=RF	3
.U=Unmarried	5970
.V=Spouse NR	384
0.No	7807
1.Yes,a little	320
2.Yes,a lot	348
3.Yes,DK/NA how much	2
9.Don't do	243

Value	R1MCWV
1.Not at all diff	10797
2.A little diff	840
3.Somewhat diff	259
4.Very diff/can't do	199
9.Don't do	557

Value	S1MCWV
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	8560
2.A little diff	677
3.Somewhat diff	192
4.Very diff/can't do	133
9.Don't do	338

Value	R1COMP
1.Not at all diff	4059
2.A little diff	1183
3.Somewhat diff	853
4.Very diff/can't do	1239
9.Don't do	5318

Value	S1COMP
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	3218
2.A little diff	976
3.Somewhat diff	683
4.Very diff/can't do	944
9.Don't do	4079

Value	R2PHONE
.D=DK/NA	1
.Q=Not asked this wv	8222
.R=RF	3
0.No	11117
1.Yes,a little	153
2.Yes,a lot	126
3.Yes,DK/NA how much	4
4.Yes,RF how much	3
9.Don't do	13

Value	R3PHONE	R4PHONE	R5PHONE	R6PHONE	R7PHONE
.D=DK/NA	1	4	2	1	4
.R=RF	3	3	2		6
.S=Skip	36	28	24	7	10
0.No	16925	20118	18419	17019	18978
1.Yes	642	775	682	726	693
2.Can't do	281	341	325	315	331
9.Don't do	103	115	125	97	107

Value	R8PHONE	R9PHONE	R10PHONE	R11PHONE	R12PHONE
.D=DK/NA	3	5	3	6	5
.R=RF	2	1	4	1	1
.S=Skip	7	9	135	18	17
0.No	17372	16137	20574	19292	17545
1.Yes	658	692	1049	980	986
2.Can't do	344	282	212	198	147
9.Don't do	83	91	57	59	46

Value	S2PHONE
.Q=Not asked this wv	4549
.R=RF	3
.U=Unmarried	5970
.V=Spouse NR	384
0.No	8531
1.Yes,a little	110
2.Yes,a lot	81
3.Yes,DK/NA how much	2
4.Yes,RF how much	3
9.Don't do	9

Value	S3PHONE	S4PHONE	S5PHONE	S6PHONE	S7PHONE
.D=DK/NA		1			1
.R=RF	2		1		4
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11389	13355	12192	11141	12477
1.Yes	327	405	336	339	321
2.Can't do	133	148	125	112	114
9.Don't do	53	62	71	44	54

Value	S8PHONE	S9PHONE	S10PHONE	S11PHONE	S12PHONE
.D=DK/NA		4	3	2	2
.R=RF	1	1	2		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11243	10189	12849	11961	10525
1.Yes	317	313	480	403	408
2.Can't do	126	89	71	88	61
9.Don't do	47	48	27	30	27

Value	S2PHONER
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	4122
1.Unable to do without help	170
2.Can't do	40
9.Don't do	16

Value	S2PHONER
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	4122
1.Unable to do without help	170
2.Can't do	40
9.Don't do	16

Value	R2MONEY
.D=DK/NA	3
.Q=Not asked this wv	8222
.R=RF	2
0.No	10781
1.Yes,a little	379
2.Yes,a lot	205
3.Yes,DK/NA how much	3
4.Yes,RF how much	4
9.Don't do	43

Value	R3MONEY	R4MONEY	R5MONEY	R6MONEY	R7MONEY
.D=DK/NA	1	3	4	3	4
.M=Oth missing	1				
.R=RF	3	4	2	3	8
.S=Skip	36	28	25	7	10
0.No	16166	19305	17562	16196	17980
1.Yes	713	849	790	800	768
2.Can't do	534	576	579	576	625
9.Don't do	537	619	617	580	734

Value	R8MONEY	R9MONEY	R10MONEY	R11MONEY	R12MONEY
.D=DK/NA	3	3	9	9	10
.R=RF	3	2	10	4	4
.S=Skip	7	9	135	18	17
0.No	16377	15225	19379	18323	16560
1.Yes	789	736	1411	1255	1342
2.Can't do	592	612	500	446	353
9.Don't do	698	630	590	499	461

Value	S2MONEY
.D=DK/NA	2
.Q=Not asked this wv	4549
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	384
0.No	8319
1.Yes,a little	261
2.Yes,a lot	114
3.Yes,DK/NA how much	1
4.Yes,RF how much	3
9.Don't do	37

Value	S3MONEY	S4MONEY	S5MONEY	S6MONEY	S7MONEY
.D=DK/NA		1	2	2	1
.M=Oth missing	1				
.R=RF	2		1	3	4
.S=Skip	11	7	6	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10938	12906	11700	10667	11840
1.Yes	268	355	288	280	317
2.Can't do	243	223	229	220	226
9.Don't do	452	486	504	464	583

Value	S8MONEY	S9MONEY	S10MONEY	S11MONEY	S12MONEY
.D=DK/NA	1	1	5	2	3
.R=RF	2	2	4		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10666	9692	12168	11408	9988
1.Yes	281	256	596	523	526
2.Can't do	230	210	198	169	141
9.Don't do	554	483	461	382	365

Value	R2MONEYR
.D=DK/NA	2
.M=Oth missing	4
.Q=Not asked this wv	11420
.R=RF	2
0.Able to do without help	6758
1.Unable to do without help	734
9.Don't do	722

Value	S2MONEYR
.D=DK/NA	2
.M=Oth missing	2
.Q=Not asked this wv	9123
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	3522
1.Unable to do without help	302
9.Don't do	520

Value	R2MEDS
.D=DK/NA	4
.Q=Not asked this wv	8222
.R=RF	2
0.No	10963
1.Yes,a little	200
2.Yes,a lot	130
4.Yes,RF how much	12
9.Don't do	109

Value	R3MEDS	R4MEDS	R5MEDS	R6MEDS	R7MEDS
.D=DK/NA	1	6	2	6	6
.R=RF	4	4	2		4
.S=Skip	36	28	24	7	36
.Z=Don't do/No if did		1278	1005	376	387
0.No	16009	19211	17733	16962	18829
1.Yes	585	715	672	723	771
2.Can't do	113	106	117	84	82
9.Don't do	1243	36	24	7	14

Value	R8MEDS	R9MEDS	R10MEDS	R11MEDS	R12MEDS
.D=DK/NA	2		3	7	5
.R=RF	3	1	6	3	1
.S=Skip	7	9	135	18	17
.Z=Don't do/No if did	251	195	268	235	223
0.No	17322	16149	20552	19282	17520
1.Yes	786	783	996	951	939
2.Can't do	89	71	44	42	17
9.Don't do	9	9	30	16	25

Value	S2MEDS
.D=DK/NA	4
.Q=Not asked this wv	4549
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	384
0.No	8420
1.Yes,a little	137
2.Yes,a lot	89
4.Yes,RF how much	10
9.Don't do	77

Value	S3MEDS	S4MEDS	S5MEDS	S6MEDS	S7MEDS
.D=DK/NA		3			2
.R=RF	2		1		2
.S=Skip	11	7	5	3	10
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.Z=Don't do/No if did		831	672	222	217
0.No	10738	12730	11701	11077	12370
1.Yes	277	337	305	300	336
2.Can't do	50	47	33	34	26
9.Don't do	837	23	13	3	9

Value	S8MEDS	S9MEDS	S10MEDS	S11MEDS	S12MEDS
.D=DK/NA				3	
.R=RF	2	1	3		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.Z=Don't do/No if did	142	97	147	136	122
0.No	11212	10197	12821	11931	10523
1.Yes	344	326	426	398	359
2.Can't do	28	18	18	12	4
9.Don't do	6	5	17	4	15

Value	R2MEDSR
.M=Oth missing	1
.Q=Not asked this wv	11420
0.Able to do without help	7711
1.Unable to do without help	377
2.Can't do	24
9.Don't do	109

Value	S2MEDSR
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	4129
1.Unable to do without help	171
2.Can't do	12
9.Don't do	36

Value	R3SHOP	R4SHOP	R5SHOP	R6SHOP	R7SHOP
.D=DK/NA	2		2	1	4
.R=RF	3	6	2		6
.S=Skip	36	28	24	7	45
0.No	15421	18465	16827	15568	17375
1.Yes	1024	1220	1141	1052	1107
2.Can't do	867	941	859	887	907
9.Don't do	638	724	724	650	685

Value	R8SHOP	R9SHOP	R10SHOP	R11SHOP	R12SHOP
.D=DK/NA	1	1	6	10	9
.R=RF	3	1	6	6	1
.S=Skip	7	9	135	18	17
0.No	15820	14828	19170	17916	16295
1.Yes	1186	1036	1695	1703	1703
2.Can't do	857	818	649	590	440
9.Don't do	595	524	373	311	282

Value	S3SHOP	S4SHOP	S5SHOP	S6SHOP	S7SHOP
.D=DK/NA				1	2
.R=RF	2	1	1		4
.S=Skip	11	7	5	3	10
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10630	12565	11385	10457	11663
1.Yes	489	562	536	441	515
2.Can't do	318	361	315	312	306
9.Don't do	465	482	488	425	472

Value	S8SHOP	S9SHOP	S10SHOP	S11SHOP	S12SHOP
.D=DK/NA		1	3	6	4
.R=RF	2	1	2	2	
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10487	9602	12249	11360	9997
1.Yes	571	462	764	730	708
2.Can't do	285	263	209	215	160
9.Don't do	389	315	205	171	154



Value	R2SHOPR
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	11420
0.Able to do without help	6535
1.Unable to do without help	1180
2.Can't do	277
9.Don't do	228

Value	S2SHOPR
.D=DK/NA	1
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	3662
1.Unable to do without help	442
2.Can't do	105
9.Don't do	138

Value	R3MEALS	R4MEALS	R5MEALS	R6MEALS	R7MEALS
.D=DK/NA	1	1	3	3	2
.R=RF	3	5	3		5
.S=Skip	36	28	24	7	10
0.No	15739	18781	17034	15689	17625
1.Yes	688	844	762	775	764
2.Can't do	554	619	670	651	674
9.Don't do	970	1106	1083	1040	1049

Value	R8MEALS	R9MEALS	R10MEALS	R11MEALS	R12MEALS
.D=DK/NA		2	6	8	9
.R=RF	3	1	6	5	2
.S=Skip	7	9	135	18	17
0.No	16216	15095	19648	18341	16776
1.Yes	765	744	1186	1238	1177
2.Can't do	631	610	495	444	373
9.Don't do	847	756	558	500	393

Value	S3MEALS	S4MEALS	S5MEALS	S6MEALS	S7MEALS
.D=DK/NA				2	1
.R=RF	2		1		3
.S=Skip	11	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10591	12505	11309	10343	11639
1.Yes	320	389	351	336	367
2.Can't do	208	233	246	201	202
9.Don't do	783	844	818	754	759

Value	S8MEALS	S9MEALS	S10MEALS	S11MEALS	S12MEALS
.D=DK/NA			2	5	6
.R=RF	2	1	3	1	1
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10577	9637	12393	11489	10159
1.Yes	373	314	534	551	493
2.Can't do	210	181	153	137	120
9.Don't do	572	511	347	301	244

Value	R2MEALSR
.M=Oth missing	1
.Q=Not asked this wv	11420
.R=RF	1
0.Able to do without help	7018
1.Unable to do without help	588
2.Can't do	179
9.Don't do	435

Value	S2MEALSR
.M=Oth missing	1
.Q=Not asked this wv	9123
.U=Unmarried	5970
.V=Spouse NR	200
0.Able to do without help	3676
1.Unable to do without help	262
2.Can't do	72
9.Don't do	338

## How Constructed

These variables recode the raw variables for difficulty with instrumental activities of daily living (IADLs) as they appear in the HRS data except for missing values and accounting for skip patterns. Some measures described here are not normally used as IADLs but are included with them because they seemed to serve a similar measurement function in Wave 1. The measures described here are using the phone (RwPHONE), taking medications (RwMEDS), managing money (RwMONEY), shopping for groceries (RwSHOP), preparing meals (RwMEALS), using a map (RwMAP), using a calculator (RwCALC), using a microwave (R1MCWV), and using a computer (R1COMP). In the following, references to Rw[iadl] apply to all these variables.

Respondents are asked about different IADL activities in Waves 1 and 2 then in the rest of the waves. Wave 1 asks about using a map, a calculator, a microwave, and a computer, but not about preparing meals, shopping for groceries, using the phone, taking medications, or managing money, which are activities normally considered IADLs. From Wave 2 forward, the questions about using a microwave or a computer are dropped, but using the phone, taking medications, and managing

money are added. In Wave 2A and from Wave 3 forward, the questions about using a calculator are not asked, but shopping for groceries and preparing meals are added. Using a map is asked in all waves except Wave 2A. From Wave 3 forward, the set of IADLs is consistent and includes using the phone, taking medications, managing money, shopping for groceries, preparing meals, and using a map.

In Wave 2A and 2H, the questions are asked differently and result in different raw recodes. The Wave 2H variables are named as they are in other waves (R2[iadl], e.g., R2PHONE) and the Wave 2A variables recoded raw variables are named R2[iadl]R, e.g., R2PHONER. For HRS Respondents in Wave 2, the R2[iadl]R variables are set to .Q, and similarly, for AHEAD Respondents in Wave 2, the R2[iadl] variables are set to .Q.

To summarize, R1MCWV and R1COMP are available only in Wave 1; RwCALC is only available in Waves 1 and 2H; R2PHONE, R2MEDS, and R2MONEY are available for Wave 2H; R2PHONER, R2MEDSR, R2MONEYR, R2SHOPR, and R2MEALSR are available for Wave 2A; RwPHONE, RwMEDS, RwMONEY, RwSHOP and RwMEALS are available from Wave 3 forward; and RwMAP is available in all waves except Wave 2A.

In addition the categories for Rw[iadl] variables are uniquely different from other waves in Waves 1, 2H, and 2A.

The recodes vary across waves because the question and responses can vary across waves. In Wave 1, the HRS imputations are left in place. In all other waves don't know is recoded to special missing code .D and refused is recoded to .R.

In Wave 1 difficulty with an ADL is rated on a 4-point scale from no difficulty to very difficult/can't do. These are assigned without change. A "don't do" answer is recoded to 9.

In Wave 2H, the question asks if the Respondent has any difficulty with an IADL and if so, asks follow-up questions about the degree of difficulty. The raw variable codes both questions as one categorical variable. A "no" answer to the first question about any difficulty is recoded to 0, and the categorical levels of difficulty are recoded appropriately to "a little" and "a lot", or "don't know/refused how much." A "don't do" response is coded as 9.

In Wave 2A, except for managing money, the questions begin with "Are you able to do ... without help?" and, if the response is "Don't do", a follow-up question asks if this is because of a health problem. If the response to the first question is yes, then R2[iadl]R is set to 0, able to do without help. If the response is no, i.e., not able to do without help, R2[iadl]R is set to 1, unable to do without help. If the Respondent indicates that s/he doesn't do the activity because of a health problem, R2[iadl]R is set to 2, can't do. If it is not because of a health problem, R2[iadl]R is set to 9, doesn't do. The follow-up question about any difficulty was asked for these IADLS as a group, i.e., preparing meals, shopping for groceries, making telephone calls and taking medications all together. Because it is impossible to separate answers for specific IADLs, we don't use this question.

For managing money in Wave 2A, the initial question asks about being able to manage money without help. If the response is no, a follow-up question asks if this is because of a health problem. If the response to the first question is yes, then R2MONEYR is set to 0, able to do without help. If the response is no, and the Respondent indicates that it is because of a health problem, then R2MONEYR is set to 1, unable to do without help. If not because of a health problem then R2MONEYR is set to 9, doesn't do.

From Wave 3 forward there is just one question about difficulty using a map. RwMAP is set to 1 for any difficulty (yes), 0 for no difficulty, 2 for "can't do" response, 9 for "don't do," .D for don't know, .R for refuse, and .S if the question was not asked.

From Wave 3 forward for other activities, follow-up questions for "can't do" or "don't do" responses are used in deriving Rw[iadl]. Except for taking medications from Wave 4 forward, Rw[iadl] is derived as follows. If the Respondent answers yes or no to the first question about having any difficulty, then Rw[iadl] is set to 1 for yes, difficulty or 0 for no

difficulty, respectively. A don't know or refuse response is set to .D or .R, respectively, and if the question is not answered, Rw[iadl] is set to .S. If the Respondent answers "can't do" or "don't do" to the first question, the second question that asks if it is because of a health problem is checked. If it is because of a health problem, Rw[iadl] is set to 2 for "can't do". If not, the answer is considered a "don't do" response and Rw[iadl] is set to 9.

From Wave 4 forward for taking medications, the recoding uses three questions. If the Respondent answers yes to the first question about having any difficulty, RwMEDS is set to 1 for some difficulty. If the answer is no, RwMEDS is set to 0. A don't know or refuse response is set to .D or .R, respectively, and if the question is not answered, Rw[iadl] is set to .S.

If the Respondent answers "don't do" to the first question, a second question asks if s/he would have difficulty if s/he took medications. If the answer is no, then RwMEDS is set to .Z to indicate the Respondent doesn't take medications but says s/he wouldn't have difficulty if s/he did.

If the answer to the second question is yes or if the Respondent answers "can't do" to the first question, a third question asks whether it is because of a health problem. If the answer is yes and the Respondent said "can't do" to the first question, RwMEDS is set to 2 for "can't do." If the answer is yes and the Respondent doesn't take medications but said s/he would have difficulty if s/he did, RwMEDS is set to 1 for "yes," difficulty. If the answer is no, it is considered a "don't do" response.

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond then the variables are set to .V=Spouse is non-response.

There are other versions of the Rw[iadl] variables that recode to a yes/no measure for use in creating indices. One version of this variable is derived that attempts to code a consistent cross-wave yes/no dummy that indicates "some difficulty" (Rw[iadl]A). These are available from Wave 2 forward. Because of the inconsistent coding of the underlying HRS data, we do not construct R1[iadl]A variables in Wave 1. Please see the description of the Rw[iadl]A variables under "Instrumental activities of daily living (IADLs): Some difficulty" for this version. Rw[iadl]A variables are used to construct an IADL summary index. Please see "IADL Summary."

A third version of these variables are derived for Wave 1 only (R1[iadl]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "IADLs: Recodes for comparison to Wallace and Herzog" for a description of the R1MAPW, R1CALCW, R1MCWVW, and R1COMPW variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes done in other waves (Rw[iadl]A) solely due to measurement differences in the raw data. The R1[iadl]W variables are not appropriate for comparison to the Rw[iadl]A variables in other waves.

## Cross Wave Differences in Original HRS Data

Each wave has a series of questions about limits on instrumental activities of daily living (IADLs), but the specific activities, the question wording, and possible answers vary across waves. Some measures described here are not normally used as IADLs but are included with them because they seemed to serve a similar measurement function in Wave 1. The IADL measures described here are: using the phone (RwPHONE), taking medications (RwMEDS), managing money (RwMONEY), shopping for groceries (RwSHOP), preparing meals (RwMEALS), using a map (RwMAP), using a calculator (RwCALC), using a microwave (R1MCWV), and using a computer (R1COMP).

Respondents are asked about different IADL activities in Waves 1 and 2 than in the rest of the waves. Wave 1 asks about using a map, a calculator, a microwave, and a computer, but not about preparing meals, shopping for groceries, using the phone, taking medications, or managing money, which are activities normally considered IADLs. From Wave 2 forward, the questions about using a microwave or a computer are dropped, but using the phone, taking medications, and managing

money are added. In Wave 2A and from Wave 3 forward, the questions about using a calculator are not asked, but shopping for groceries and preparing meals are added. Using a map is asked in all waves except Wave 2A. From Wave 3 forward, the set of IADLs is consistent and includes using the phone, taking medications, managing money, shopping for groceries, preparing meals, and using a map.

The question wording and answers also varied across waves. The Wave 1 questions ask:

"Here are some other activities that people may have difficulty with. How difficult is it for you to [...]?"

The Respondent can answer "not at all difficult," "a little difficult," "somewhat difficult," "very difficult/can't do," or "don't do." The answers translate into 4 codes from 1 for "not at all difficult" to 4 for "very difficult/can't do." Another code is used for the "Don't do" response. The specific wording for the IADLs is: use a map to figure out how to get around a strange place, use a microwave oven after reading the instructions, use a calculator to help balance your checkbook, and use a computer or word processor.

In Wave 2H the question wording is similar to that in Wave 1 but is asked in 2 parts:

1) "Here are some other activities that people may have difficulty with. Do you have any difficulty with ...?" The Respondent can answer "yes" or "no."

2) [IF YES] "Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments, therefore are observed less frequently than in other waves, simply because of questionnaire differences. This difference is considerable among the IADLs. The specific wording for the IADLs is: using a map to figure out how to get around a strange place, using a calculator to help balance your checkbook, managing your money, making telephone calls, and following instructions for taking prescription medications.

In Wave 2A, the questions are asked differently for managing money and for other IADLs. The section is prefaced with the following:

"Here are a few other daily activities which some people have difficulty with. Please tell me whether you are able to do each activity without help from anyone else. If you don't do the activity at all, just tell me so."

Except for managing money, the IADL questions ask:

"Are you able to ... without help? [IF DON'T DO] Is that because of a health problem?"

If the Respondent reports being able to do any one of these activities without help, a question asks:

"Without help do you have any difficulty with [list of all applicable IADLs]?" [IF YES] "Is that a little or a lot of difficulty?"

The specific wording for these activities is: prepare(ing) hot meals, shop(ping) for groceries, make(ing) telephone calls, and take(ing) medications.

For managing money the Wave 2A questions ask:

- 1) "Do you manage your money-such as paying your bills and keeping track of expenses, without anyone's help?"
- 2) [IF NO] "Is that because of a health or memory condition?"
- 3) [IF YES, DK, or RF to Q1, or YES to Q2] "Do you have any difficulty managing your money (when someone is helping you/without help)?"
- 4) [IF YES to Q3] "Is that a little or a lot of difficulty?"

From Wave 3 forward, the question wording is again similar to that in Wave 1, but is prefaced with additional text. The question asks:

"Here are a few other activities which some people have difficulty with because of a physical, mental, emotional, or memory problem. Please tell me if you have any difficulty with each activity I name. If you don't do the activity at all, just tell me so. Exclude any difficulties you expect to last less than three months."

For using a map the question in Wave 3 is: "Do you have any difficulty using a map to figure out how to get around in a strange place?" From Wave 4 forward, this is prefaced with "Because of a health or memory problem...." Responses may be "yes," "no," "can't do," or "don't do."

For other IADLs, a series of questions may be asked:

- 1) "Because of a health or memory problem do you have any difficulty with ...?" The Respondent can answer "yes," "no," "can't do," or "don't do." In Wave 3, for taking medications, the wording for "don't do" is "don't take medications."
- 2) For taking medications, from Wave 4 forward, [If DON'T DO to Q1] "Do you think you would have any difficulty taking medications if you needed to do so?"
- 3) [If YES, DK, or RF to Q2 for taking medications from Wave 4 forward; CAN'T DO to Q1 for taking medications in Wave 3; or CAN'T DO or DON'T DO to Q1 for all other activities] "Is that because of a health or memory problem?" The Respondent can answer "yes" or "no." In Wave 3A, this question is also asked if the response to Q1 is "don't know" or "refuse." In Wave 3A and 3H, this question is skipped for a "don't take medications" response. From Wave 4 forward, whether the question is asked depends on the answer to Q2 for taking medications if Q1 had a "don't do" response.
- 4) [If YES, DK, or RF to Q1 or Q3] "Does anyone help you ...?" The Respondent can answer "yes" or "no." In Wave 3, this question is not asked for managing money when the Q1 response is DK or RF. From Wave 4 forward this question is not asked if the Respondent is living in a nursing home. In Wave 7, a mistake in the Spanish instrument allowed "can't do" and "don't do" responses for the help questions, and a few of these responses are given for all of the IADLs except help with medications and money.

The specific wording for these activities is: prepare(ing) a hot meal, shop(ping) for groceries, make(ing) phone calls, take(ing) medications, and manage(ing) your money – such as paying your bills and keeping track of expenses.

## HRS Variables Used

HRS 1992:

V321	B5A:USE MAP, STRNG P:IMP
V322	B5B:USE MCRWV W/ INS:IMP
V323	B5C:USE CALCULATOR :IMP
V324	B5D:USE COMPUTER :IMP

## AHEAD 1993:

B903A1 E52. IADL W/OUT HELP-PREPARE HOT MEAL  
 B903A2 E52. IADL W/OUT HELP-SHOP FOR GROCERIES  
 B903A3 E52. IADL W/OUT HELP-MAKE PHONE CALLS  
 B903A4 E52. IADL W/OUT HELP-TAKE MEDICATIONS  
 B904A1 E52a. IADL WHY DONT-PREPARE HOT MEALS  
 B904A2 E52a. IADL WHY DONT-SHOP FOR GROCERIES  
 B904A3 E52a. IADL WHY DONT-MAKE PHONE CALLS  
 B904A4 E52a. IADL WHY DONT-TAKE MEDICATIONS  
 B948 E57. IADL MONEY  
 B949 E57a. MONEY WHY CANT

## HRS 1994:

W323 B5.USING A MAP  
 W324 B5a.USING A CALCULATOR  
 W325 B5b.MANAGING MONEY  
 W326 B5c.MAKING TELEPHONE CAL  
 W327 B5d.TAKING PRESCRIPTION

## AHEAD 1995:

D2012 E93.MAPS  
 D2021 E95.IADL MEALS DIFF  
 D2023 E95B.MEALS -WHY DONT  
 D2026 E96.IADL GROC DIFF  
 D2028 E96B.GROC -WHY DONT  
 D2031 E97.IADLS PHONE DIFF  
 D2033 E97B.PHONE -WHY DONT  
 D2036 E98.IADLS MEDICATION DIFF  
 D2038 E98B.MED-WHY DONT  
 D2099 E106.IADL MONEY DIFF  
 D2100 E106A.MONEY HEALTH PROBLEM

## HRS 1996:

E2027 E93.MAPS  
 E2036 E95.IADL MEALS DIFF  
 E2038 E95B.MEALS -WHY DONT  
 E2041 E96.IADL GROC DIFF  
 E2043 E96B.GROC -WHY DONT  
 E2046 E97.IADLS PHONE DIFF  
 E2048 E97B.PHONE -WHY DONT  
 E2051 E98.IADLS MEDICATION DIFF  
 E2053 E98B.MED-WHY DONT  
 E2093 E106.IADL MONEY DIFF  
 E2094 E106A.MONEY HEALTH PROBLEM

## HRS 1998:

F2553 E93.MAPS  
 F2562 E95.IADL MEALS DIFF  
 F2564 E95B.MEALS -WHY DONT  
 F2567 E96.IADL GROC DIFF  
 F2569 E96B.GROC -WHY DONT  
 F2572 E97.IADLS PHONE DIFF  
 F2574 E97B.PHONE -WHY DONT  
 F2577 E98.IADLS MEDICATION DIFF  
 F2578 E98A  
 F2579 E98B.MED-WHY DONT  
 F2618 E106.IADL MONEY DIFF  
 F2619 E106A.MONEY HEALTH PROBLEM

## HRS 2000:

G2851 E93.MAPS  
 G2860 E95.IADL MEALS DIFF  
 G2862 E95B.MEALS -WHY DONT  
 G2865 E96.IADL GROC DIFF

G2867 E96B.GROC -WHY DONT  
G2870 E97.IADLS PHONE DIFF  
G2872 E97B.PHONE -WHY DONT  
G2875 E98.IADLS MEDICATION DIFF  
G2876 E98A.IADLS MED IF NEEDED DIFF  
G2877 E98B.MED-WHY DONT  
G2916 E106.IADL MONEY DIFF  
G2917 E106A.MONEY HEALTH PROBLEM

HRS 2002:  
HG040 DIFFICULTY- USING MAPS  
HG041 IADL MEAL PREPARATION DIFFICULTY  
HG042 WHY- MEAL PREPARATION DIFFICULTY  
HG044 IADL GROC SHOP DIFFICULTY  
HG045 WHY- GROC SHOP DIFFICULTY  
HG047 IADL MAKING PHONE CALLS DIFFICULTY  
HG048 WHY- MAKING PHONE CALLS DIFFICULTY  
HG050 IADL TAKING MEDICATION DIFFICULTY  
HG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
HG052 WHY- TAKING MEDICATIONS DIFFICULTY  
HG059 IADL MANAGING MONEY DIFFICULTY  
HG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2004:  
JG040 DIFFICULTY- USING MAPS  
JG041 IADL MEAL PREPARATION DIFFICULTY  
JG042 WHY- MEAL PREPARATION DIFFICULTY  
JG044 IADL GROC SHOP DIFFICULTY  
JG045 WHY- GROC SHOP DIFFICULTY  
JG047 IADL MAKING PHONE CALLS DIFFICULTY  
JG048 WHY- MAKING PHONE CALLS DIFFICULTY  
JG050 IADL TAKING MEDICATION DIFFICULTY  
JG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
JG052 WHY- TAKING MEDICATIONS DIFFICULTY  
JG059 IADL MANAGING MONEY DIFFICULTY  
JG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2006:  
KG040 DIFFICULTY- USING MAPS  
KG041 IADL MEAL PREPARATION DIFFICULTY  
KG042 WHY- MEAL PREPARATION DIFFICULTY  
KG044 IADL GROC SHOP DIFFICULTY  
KG045 WHY- GROC SHOP DIFFICULTY  
KG047 IADL MAKING PHONE CALLS DIFFICULTY  
KG048 WHY- MAKING PHONE CALLS DIFFICULTY  
KG050 IADL TAKING MEDICATION DIFFICULTY  
KG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
KG052 WHY- TAKING MEDICATIONS DIFFICULTY  
KG059 IADL MANAGING MONEY DIFFICULTY  
KG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2008:  
LG040 DIFFICULTY- USING MAPS  
LG041 IADL MEAL PREPARATION DIFFICULTY  
LG042 WHY- MEAL PREPARATION DIFFICULTY  
LG044 IADL GROC SHOP DIFFICULTY  
LG045 WHY- GROC SHOP DIFFICULTY  
LG047 IADL MAKING PHONE CALLS DIFFICULTY  
LG048 WHY- MAKING PHONE CALLS DIFFICULTY  
LG050 IADL TAKING MEDICATION DIFFICULTY  
LG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
LG052 WHY- TAKING MEDICATIONS DIFFICULTY  
LG059 IADL MANAGING MONEY DIFFICULTY



LG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2010:

MG040 DIFFICULTY- USING MAPS

MG041 IADL MEAL PREPARATION DIFFICULTY

MG042 WHY- MEAL PREPARATION DIFFICULTY

MG044 IADL GROC SHOP DIFFICULTY

MG045 WHY- GROC SHOP DIFFICULTY

MG047 IADL MAKING PHONE CALLS DIFFICULTY

MG048 WHY- MAKING PHONE CALLS DIFFICULTY

MG050 IADL TAKING MEDICATION DIFFICULTY

MG051 IADL TAKING MEDS IF NEEDED DIFFICULTY

MG052 WHY- TAKING MEDICATIONS DIFFICULTY

MG059 IADL MANAGING MONEY DIFFICULTY

MG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2012:

NG040 DIFFICULTY- USING MAPS

NG041 IADL MEAL PREPARATION DIFFICULTY

NG042 WHY- MEAL PREPARATION DIFFICULTY

NG044 IADL GROC SHOP DIFFICULTY

NG045 WHY- GROC SHOP DIFFICULTY

NG047 IADL MAKING PHONE CALLS DIFFICULTY

NG048 WHY- MAKING PHONE CALLS DIFFICULTY

NG050 IADL TAKING MEDICATION DIFFICULTY

NG051 IADL TAKING MEDS IF NEEDED DIFFICULTY

NG052 WHY- TAKING MEDICATIONS DIFFICULTY

NG059 IADL MANAGING MONEY DIFFICULTY

NG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2014:

OG040 DIFFICULTY- USING MAPS

OG041 IADL MEAL PREPARATION DIFFICULTY

OG042 WHY- MEAL PREPARATION DIFFICULTY

OG044 IADL GROC SHOP DIFFICULTY

OG045 WHY- GROC SHOP DIFFICULTY

OG047 IADL MAKING PHONE CALLS DIFFICULTY

OG048 WHY- MAKING PHONE CALLS DIFFICULTY

OG050 IADL TAKING MEDICATION DIFFICULTY

OG051 IADL TAKING MEDS IF NEEDED DIFFICULTY

OG052 WHY- TAKING MEDICATIONS DIFFICULTY

OG059 IADL MANAGING MONEY DIFFICULTY

OG060 WHY- MANAGING MONEY DIFFICULTY

### Instrumental activities of daily living (IADLs): Some difficulty

Wave	Variable	Label	Type
2	R2MAPA	R2MAPA:W2 R Some Diff-Use a map	Categ
3	R3MAPA	R3MAPA:W3 R Some Diff-Use a map	Categ
4	R4MAPA	R4MAPA:W4 R Some Diff-Use a map	Categ
5	R5MAPA	R5MAPA:W5 R Some Diff-Use a map	Categ
6	R6MAPA	R6MAPA:W6 R Some Diff-Use a map	Categ
7	R7MAPA	R7MAPA:W7 R Some Diff-Use a map	Categ
8	R8MAPA	R8MAPA:W8 R Some Diff-Use a map	Categ
9	R9MAPA	R9MAPA:W9 R Some Diff-Use a map	Categ
10	R10MAPA	R10MAPA:W10 R Some Diff-Use a map	Categ
11	R11MAPA	R11MAPA:W11 R Some Diff-Use a map	Categ
12	R12MAPA	R12MAPA:W12 R Some Diff-Use a map	Categ
2	S2MAPA	S2MAPA:W2 S Some Diff-Use a map	Categ
3	S3MAPA	S3MAPA:W3 S Some Diff-Use a map	Categ
4	S4MAPA	S4MAPA:W4 S Some Diff-Use a map	Categ
5	S5MAPA	S5MAPA:W5 S Some Diff-Use a map	Categ
6	S6MAPA	S6MAPA:W6 S Some Diff-Use a map	Categ
7	S7MAPA	S7MAPA:W7 S Some Diff-Use a map	Categ
8	S8MAPA	S8MAPA:W8 S Some Diff-Use a map	Categ
9	S9MAPA	S9MAPA:W9 S Some Diff-Use a map	Categ
10	S10MAPA	S10MAPA:W10 S Some Diff-Use a map	Categ
11	S11MAPA	S11MAPA:W11 S Some Diff-Use a map	Categ
12	S12MAPA	S12MAPA:W12 S Some Diff-Use a map	Categ
2	R2CALCA	R2CALCA:W2 R Some Diff-Use a calculator	Categ
2	S2CALCA	S2CALCA:W2 S Some Diff-Use a calculator	Categ
2	R2PHONEA	R2PHONEA:W2 R Some Diff-Use telephone	Categ
3	R3PHONEA	R3PHONEA:W3 R Some Diff-Use telephone	Categ
4	R4PHONEA	R4PHONEA:W4 R Some Diff-Use telephone	Categ
5	R5PHONEA	R5PHONEA:W5 R Some Diff-Use telephone	Categ
6	R6PHONEA	R6PHONEA:W6 R Some Diff-Use telephone	Categ
7	R7PHONEA	R7PHONEA:W7 R Some Diff-Use telephone	Categ
8	R8PHONEA	R8PHONEA:W8 R Some Diff-Use telephone	Categ
9	R9PHONEA	R9PHONEA:W9 R Some Diff-Use telephone	Categ
10	R10PHONEA	R10PHONEA:W10 R Some Diff-Use telephone	Categ
11	R11PHONEA	R11PHONEA:W11 R Some Diff-Use telephone	Categ
12	R12PHONEA	R12PHONEA:W12 R Some Diff-Use telephone	Categ
2	S2PHONEA	S2PHONEA:W2 S Some Diff-Use telephone	Categ
3	S3PHONEA	S3PHONEA:W3 S Some Diff-Use telephone	Categ
4	S4PHONEA	S4PHONEA:W4 S Some Diff-Use telephone	Categ
5	S5PHONEA	S5PHONEA:W5 S Some Diff-Use telephone	Categ
6	S6PHONEA	S6PHONEA:W6 S Some Diff-Use telephone	Categ
7	S7PHONEA	S7PHONEA:W7 S Some Diff-Use telephone	Categ
8	S8PHONEA	S8PHONEA:W8 S Some Diff-Use telephone	Categ
9	S9PHONEA	S9PHONEA:W9 S Some Diff-Use telephone	Categ
10	S10PHONEA	S10PHONEA:W10 S Some Diff-Use telephone	Categ
11	S11PHONEA	S11PHONEA:W11 S Some Diff-Use telephone	Categ
12	S12PHONEA	S12PHONEA:W12 S Some Diff-Use telephone	Categ
2	R2MONEYA	R2MONEYA:W2 R Some Diff-Managing money	Categ
3	R3MONEYA	R3MONEYA:W3 R Some Diff-Managing money	Categ
4	R4MONEYA	R4MONEYA:W4 R Some Diff-Managing money	Categ
5	R5MONEYA	R5MONEYA:W5 R Some Diff-Managing money	Categ
6	R6MONEYA	R6MONEYA:W6 R Some Diff-Managing money	Categ
7	R7MONEYA	R7MONEYA:W7 R Some Diff-Managing money	Categ
8	R8MONEYA	R8MONEYA:W8 R Some Diff-Managing money	Categ
9	R9MONEYA	R9MONEYA:W9 R Some Diff-Managing money	Categ
10	R10MONEYA	R10MONEYA:W10 R Some Diff-Managing money	Categ
11	R11MONEYA	R11MONEYA:W11 R Some Diff-Managing money	Categ
12	R12MONEYA	R12MONEYA:W12 R Some Diff-Managing money	Categ
2	S2MONEYA	S2MONEYA:W2 S Some Diff-Managing money	Categ
3	S3MONEYA	S3MONEYA:W3 S Some Diff-Managing money	Categ

4	S4MONEYA	S4MONEYA:W4	S	Some Diff-Managing money	Categ
5	S5MONEYA	S5MONEYA:W5	S	Some Diff-Managing money	Categ
6	S6MONEYA	S6MONEYA:W6	S	Some Diff-Managing money	Categ
7	S7MONEYA	S7MONEYA:W7	S	Some Diff-Managing money	Categ
8	S8MONEYA	S8MONEYA:W8	S	Some Diff-Managing money	Categ
9	S9MONEYA	S9MONEYA:W9	S	Some Diff-Managing money	Categ
10	S10MONEYA	S10MONEYA:W10	S	Some Diff-Managing money	Categ
11	S11MONEYA	S11MONEYA:W11	S	Some Diff-Managing money	Categ
12	S12MONEYA	S12MONEYA:W12	S	Some Diff-Managing money	Categ
2	R2MEDSA	R2MEDSA:W2	R	Some Diff-Take medications	Categ
3	R3MEDSA	R3MEDSA:W3	R	Some Diff-Take medications	Categ
4	R4MEDSA	R4MEDSA:W4	R	Some Diff-Take medications	Categ
5	R5MEDSA	R5MEDSA:W5	R	Some Diff-Take medications	Categ
6	R6MEDSA	R6MEDSA:W6	R	Some Diff-Take medications	Categ
7	R7MEDSA	R7MEDSA:W7	R	Some Diff-Take medications	Categ
8	R8MEDSA	R8MEDSA:W8	R	Some Diff-Take medications	Categ
9	R9MEDSA	R9MEDSA:W9	R	Some Diff-Take medications	Categ
10	R10MEDSA	R10MEDSA:W10	R	Some Diff-Take medications	Categ
11	R11MEDSA	R11MEDSA:W11	R	Some Diff-Take medications	Categ
12	R12MEDSA	R12MEDSA:W12	R	Some Diff-Take medications	Categ
2	S2MEDSA	S2MEDSA:W2	S	Some Diff-Take medications	Categ
3	S3MEDSA	S3MEDSA:W3	S	Some Diff-Take medications	Categ
4	S4MEDSA	S4MEDSA:W4	S	Some Diff-Take medications	Categ
5	S5MEDSA	S5MEDSA:W5	S	Some Diff-Take medications	Categ
6	S6MEDSA	S6MEDSA:W6	S	Some Diff-Take medications	Categ
7	S7MEDSA	S7MEDSA:W7	S	Some Diff-Take medications	Categ
8	S8MEDSA	S8MEDSA:W8	S	Some Diff-Take medications	Categ
9	S9MEDSA	S9MEDSA:W9	S	Some Diff-Take medications	Categ
10	S10MEDSA	S10MEDSA:W10	S	Some Diff-Take medications	Categ
11	S11MEDSA	S11MEDSA:W11	S	Some Diff-Take medications	Categ
12	S12MEDSA	S12MEDSA:W12	S	Some Diff-Take medications	Categ
2	R2SHOPA	R2SHOPA:W2	R	Some Diff-Shop for grocery	Categ
3	R3SHOPA	R3SHOPA:W3	R	Some Diff-Shop for grocery	Categ
4	R4SHOPA	R4SHOPA:W4	R	Some Diff-Shop for grocery	Categ
5	R5SHOPA	R5SHOPA:W5	R	Some Diff-Shop for grocery	Categ
6	R6SHOPA	R6SHOPA:W6	R	Some Diff-Shop for grocery	Categ
7	R7SHOPA	R7SHOPA:W7	R	Some Diff-Shop for grocery	Categ
8	R8SHOPA	R8SHOPA:W8	R	Some Diff-Shop for grocery	Categ
9	R9SHOPA	R9SHOPA:W9	R	Some Diff-Shop for grocery	Categ
10	R10SHOPA	R10SHOPA:W10	R	Some Diff-Shop for grocery	Categ
11	R11SHOPA	R11SHOPA:W11	R	Some Diff-Shop for grocery	Categ
12	R12SHOPA	R12SHOPA:W12	R	Some Diff-Shop for grocery	Categ
2	S2SHOPA	S2SHOPA:W2	S	Some Diff-Shop for grocery	Categ
3	S3SHOPA	S3SHOPA:W3	S	Some Diff-Shop for grocery	Categ
4	S4SHOPA	S4SHOPA:W4	S	Some Diff-Shop for grocery	Categ
5	S5SHOPA	S5SHOPA:W5	S	Some Diff-Shop for grocery	Categ
6	S6SHOPA	S6SHOPA:W6	S	Some Diff-Shop for grocery	Categ
7	S7SHOPA	S7SHOPA:W7	S	Some Diff-Shop for grocery	Categ
8	S8SHOPA	S8SHOPA:W8	S	Some Diff-Shop for grocery	Categ
9	S9SHOPA	S9SHOPA:W9	S	Some Diff-Shop for grocery	Categ
10	S10SHOPA	S10SHOPA:W10	S	Some Diff-Shop for grocery	Categ
11	S11SHOPA	S11SHOPA:W11	S	Some Diff-Shop for grocery	Categ
12	S12SHOPA	S12SHOPA:W12	S	Some Diff-Shop for grocery	Categ
2	R2MEALSA	R2MEALSA:W2	R	Some Diff-Prepare hot meal	Categ
3	R3MEALSA	R3MEALSA:W3	R	Some Diff-Prepare hot meal	Categ
4	R4MEALSA	R4MEALSA:W4	R	Some Diff-Prepare hot meal	Categ
5	R5MEALSA	R5MEALSA:W5	R	Some Diff-Prepare hot meal	Categ
6	R6MEALSA	R6MEALSA:W6	R	Some Diff-Prepare hot meal	Categ
7	R7MEALSA	R7MEALSA:W7	R	Some Diff-Prepare hot meal	Categ
8	R8MEALSA	R8MEALSA:W8	R	Some Diff-Prepare hot meal	Categ
9	R9MEALSA	R9MEALSA:W9	R	Some Diff-Prepare hot meal	Categ
10	R10MEALSA	R10MEALSA:W10	R	Some Diff-Prepare hot meal	Categ
11	R11MEALSA	R11MEALSA:W11	R	Some Diff-Prepare hot meal	Categ
12	R12MEALSA	R12MEALSA:W12	R	Some Diff-Prepare hot meal	Categ
2	S2MEALSA	S2MEALSA:W2	S	Some Diff-Prepare hot meal	Categ
3	S3MEALSA	S3MEALSA:W3	S	Some Diff-Prepare hot meal	Categ

4	S4MEALSA	S4MEALSA:W4	S Some Diff-Prepare hot meal	Categ
5	S5MEALSA	S5MEALSA:W5	S Some Diff-Prepare hot meal	Categ
6	S6MEALSA	S6MEALSA:W6	S Some Diff-Prepare hot meal	Categ
7	S7MEALSA	S7MEALSA:W7	S Some Diff-Prepare hot meal	Categ
8	S8MEALSA	S8MEALSA:W8	S Some Diff-Prepare hot meal	Categ
9	S9MEALSA	S9MEALSA:W9	S Some Diff-Prepare hot meal	Categ
10	S10MEALSA	S10MEALSA:W10	S Some Diff-Prepare hot meal	Categ
11	S11MEALSA	S11MEALSA:W11	S Some Diff-Prepare hot meal	Categ
12	S12MEALSA	S12MEALSA:W12	S Some Diff-Prepare hot meal	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2MAPA	11302	0.21	0.41	0.0	1.0
R3MAPA	15422	0.18	0.38	0.0	1.0
R4MAPA	18519	0.13	0.33	0.0	1.0
R5MAPA	16789	0.13	0.34	0.0	1.0
R6MAPA	15757	0.14	0.34	0.0	1.0
R7MAPA	17533	0.13	0.33	0.0	1.0
R8MAPA	16258	0.14	0.35	0.0	1.0
R9MAPA	15094	0.14	0.34	0.0	1.0
R10MAPA	20248	0.14	0.35	0.0	1.0
R11MAPA	19010	0.15	0.35	0.0	1.0
R12MAPA	17423	0.16	0.37	0.0	1.0
S2MAPA	8671	0.19	0.39	0.0	1.0
S3MAPA	10835	0.15	0.36	0.0	1.0
S4MAPA	12735	0.10	0.30	0.0	1.0
S5MAPA	11493	0.10	0.30	0.0	1.0
S6MAPA	10668	0.11	0.31	0.0	1.0
S7MAPA	11889	0.10	0.30	0.0	1.0
S8MAPA	10799	0.10	0.31	0.0	1.0
S9MAPA	9861	0.10	0.31	0.0	1.0
S10MAPA	12814	0.11	0.32	0.0	1.0
S11MAPA	11917	0.11	0.32	0.0	1.0
S12MAPA	10550	0.13	0.33	0.0	1.0
R2CALCA	11052	0.09	0.29	0.0	1.0
S2CALCA	8477	0.08	0.27	0.0	1.0
R2PHONEA	19586	0.04	0.19	0.0	1.0
R3PHONEA	17848	0.05	0.22	0.0	1.0
R4PHONEA	21234	0.05	0.22	0.0	1.0
R5PHONEA	19426	0.05	0.22	0.0	1.0
R6PHONEA	18060	0.06	0.23	0.0	1.0
R7PHONEA	20002	0.05	0.22	0.0	1.0
R8PHONEA	18374	0.05	0.23	0.0	1.0
R9PHONEA	17111	0.06	0.23	0.0	1.0
R10PHONEA	21835	0.06	0.23	0.0	1.0
R11PHONEA	20470	0.06	0.23	0.0	1.0
R12PHONEA	18678	0.06	0.24	0.0	1.0
S2PHONEA	13059	0.03	0.17	0.0	1.0
S3PHONEA	11849	0.04	0.19	0.0	1.0
S4PHONEA	13908	0.04	0.20	0.0	1.0
S5PHONEA	12653	0.04	0.19	0.0	1.0

S6PHONEA	11592	0.04	0.19	0.0	1.0
S7PHONEA	12912	0.03	0.18	0.0	1.0
S8PHONEA	11686	0.04	0.19	0.0	1.0
S9PHONEA	10591	0.04	0.19	0.0	1.0
S10PHONEA	13400	0.04	0.20	0.0	1.0
S11PHONEA	12452	0.04	0.19	0.0	1.0
S12PHONEA	10994	0.04	0.20	0.0	1.0
R2MONEYA	18864	0.07	0.26	0.0	1.0
R3MONEYA	17413	0.07	0.26	0.0	1.0
R4MONEYA	20730	0.07	0.25	0.0	1.0
R5MONEYA	18931	0.07	0.26	0.0	1.0
R6MONEYA	17572	0.08	0.27	0.0	1.0
R7MONEYA	19373	0.07	0.26	0.0	1.0
R8MONEYA	17758	0.08	0.27	0.0	1.0
R9MONEYA	16573	0.08	0.27	0.0	1.0
R10MONEYA	21290	0.09	0.29	0.0	1.0
R11MONEYA	20024	0.08	0.28	0.0	1.0
R12MONEYA	18255	0.09	0.29	0.0	1.0
S2MONEYA	12522	0.05	0.23	0.0	1.0
S3MONEYA	11449	0.04	0.21	0.0	1.0
S4MONEYA	13484	0.04	0.20	0.0	1.0
S5MONEYA	12217	0.04	0.20	0.0	1.0
S6MONEYA	11167	0.04	0.21	0.0	1.0
S7MONEYA	12383	0.04	0.20	0.0	1.0
S8MONEYA	11177	0.05	0.21	0.0	1.0
S9MONEYA	10158	0.05	0.21	0.0	1.0
S10MONEYA	12962	0.06	0.24	0.0	1.0
S11MONEYA	12100	0.06	0.23	0.0	1.0
S12MONEYA	10655	0.06	0.24	0.0	1.0
R2MEDSA	19417	0.04	0.19	0.0	1.0
R3MEDSA	16707	0.04	0.20	0.0	1.0
R4MEDSA	20032	0.04	0.20	0.0	1.0
R5MEDSA	18522	0.04	0.20	0.0	1.0
R6MEDSA	17769	0.05	0.21	0.0	1.0
R7MEDSA	19682	0.04	0.20	0.0	1.0
R8MEDSA	18197	0.05	0.21	0.0	1.0
R9MEDSA	17003	0.05	0.22	0.0	1.0
R10MEDSA	21592	0.05	0.21	0.0	1.0
R11MEDSA	20275	0.05	0.22	0.0	1.0
R12MEDSA	18476	0.05	0.22	0.0	1.0
S2MEDSA	12968	0.03	0.18	0.0	1.0
S3MEDSA	11065	0.03	0.17	0.0	1.0
S4MEDSA	13114	0.03	0.17	0.0	1.0
S5MEDSA	12039	0.03	0.17	0.0	1.0
S6MEDSA	11411	0.03	0.17	0.0	1.0
S7MEDSA	12732	0.03	0.17	0.0	1.0
S8MEDSA	11584	0.03	0.18	0.0	1.0
S9MEDSA	10541	0.03	0.18	0.0	1.0
S10MEDSA	13265	0.03	0.18	0.0	1.0
S11MEDSA	12341	0.03	0.18	0.0	1.0
S12MEDSA	10886	0.03	0.18	0.0	1.0
R2SHOPA	7992	0.18	0.39	0.0	1.0
R3SHOPA	17312	0.11	0.31	0.0	1.0
R4SHOPA	20626	0.10	0.31	0.0	1.0

R5SHOPA	18827	0.11	0.31	0.0	1.0
R6SHOPA	17507	0.11	0.31	0.0	1.0
R7SHOPA	19389	0.10	0.31	0.0	1.0
R8SHOPA	17863	0.11	0.32	0.0	1.0
R9SHOPA	16682	0.11	0.31	0.0	1.0
R10SHOPA	21514	0.11	0.31	0.0	1.0
R11SHOPA	20209	0.11	0.32	0.0	1.0
R12SHOPA	18438	0.12	0.32	0.0	1.0
S2SHOPA	4209	0.13	0.34	0.0	1.0
S3SHOPA	11437	0.07	0.26	0.0	1.0
S4SHOPA	13488	0.07	0.25	0.0	1.0
S5SHOPA	12236	0.07	0.25	0.0	1.0
S6SHOPA	11210	0.07	0.25	0.0	1.0
S7SHOPA	12484	0.07	0.25	0.0	1.0
S8SHOPA	11343	0.08	0.26	0.0	1.0
S9SHOPA	10327	0.07	0.26	0.0	1.0
S10SHOPA	13222	0.07	0.26	0.0	1.0
S11SHOPA	12305	0.08	0.27	0.0	1.0
S12SHOPA	10865	0.08	0.27	0.0	1.0
R2MEALSA	7785	0.10	0.30	0.0	1.0
R3MEALSA	16981	0.07	0.26	0.0	1.0
R4MEALSA	20244	0.07	0.26	0.0	1.0
R5MEALSA	18466	0.08	0.27	0.0	1.0
R6MEALSA	17115	0.08	0.28	0.0	1.0
R7MEALSA	19063	0.08	0.26	0.0	1.0
R8MEALSA	17612	0.08	0.27	0.0	1.0
R9MEALSA	16449	0.08	0.27	0.0	1.0
R10MEALSA	21329	0.08	0.27	0.0	1.0
R11MEALSA	20023	0.08	0.28	0.0	1.0
R12MEALSA	18326	0.08	0.28	0.0	1.0
S2MEALSA	4010	0.08	0.28	0.0	1.0
S3MEALSA	11119	0.05	0.21	0.0	1.0
S4MEALSA	13127	0.05	0.21	0.0	1.0
S5MEALSA	11906	0.05	0.22	0.0	1.0
S6MEALSA	10880	0.05	0.22	0.0	1.0
S7MEALSA	12208	0.05	0.21	0.0	1.0
S8MEALSA	11160	0.05	0.22	0.0	1.0
S9MEALSA	10132	0.05	0.22	0.0	1.0
S10MEALSA	13080	0.05	0.22	0.0	1.0
S11MEALSA	12177	0.06	0.23	0.0	1.0
S12MEALSA	10772	0.06	0.23	0.0	1.0

## Categorical Variable Codes

Value	R2MAPA	R3MAPA	R4MAPA	R5MAPA	R6MAPA	R7MAPA
.D=DK/NA	18	8	18	14	18	10
.Q=Not asked this wv	8222					
.R=RF	2	4	6	3		6
.S=Skip		36	28	24	7	10
.X=Don't do	98	2521	2813	2749	2383	2570
0.No	8949	12656	16175	14614	13596	15287
1.Yes	2353	2766	2344	2175	2161	2246

Value	R8MAPA	R9MAPA	R10MAPA	R11MAPA	R12MAPA
.D=DK/NA	15	14	31	36	34
.R=RF	3	3	6	7	9
.S=Skip	7	9	135	18	17
.X=Don't do	2186	2097	1614	1483	1264
0.No	14013	13038	17338	16252	14600
1.Yes	2245	2056	2910	2758	2823

Value	S2MAPA	S3MAPA	S4MAPA	S5MAPA	S6MAPA	S7MAPA
.D=DK/NA	12	3	6	5	10	4
.Q=Not asked this wv	4549					
.R=RF	2	2	1	1		4
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	54	1064	1229	1226	958	1074
0.No	7037	9224	11466	10334	9533	10712
1.Yes	1634	1611	1269	1159	1135	1177

Value	S8MAPA	S9MAPA	S10MAPA	S11MAPA	S12MAPA
.D=DK/NA	7	7	8	17	13
.R=RF	3	1	3	2	3
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	925	775	607	548	457
0.No	9673	8835	11361	10566	9219
1.Yes	1126	1026	1453	1351	1331

Value	R2CALCA
.D=DK/NA	19
.Q=Not asked this wv	8222
.R=RF	3
.X=Don't do	346
0.No	10050
1.Yes	1002

Value	S2CALCA
.D=DK/NA	16
.Q=Not asked this wv	4549
.R=RF	3
.U=Unmarried	5970
.V=Spouse NR	384
.X=Don't do	243
0.No	7807
1.Yes	670

Value	R2PHONEA	R3PHONEA	R4PHONEA	R5PHONEA	R6PHONEA	R7PHONEA
.D=DK/NA	3	1	4	2	1	4
.M=Oth missing	1					
.R=RF	3	3	3	2		6
.S=Skip		36	28	24	7	10
.X=Don't do	49	103	115	125	97	107
0.No	18862	16925	20118	18419	17019	18978
1.Yes	724	923	1116	1007	1041	1024

Value	R8PHONEA	R9PHONEA	R10PHONEA	R11PHONEA	R12PHONEA
.D=DK/NA	3	5	3	6	5
.R=RF	2	1	4	1	1
.S=Skip	7	9	135	18	17
.X=Don't do	83	91	57	59	46
0.No	17372	16137	20574	19292	17545
1.Yes	1002	974	1261	1178	1133



Value	S2PHONEA	S3PHONEA	S4PHONEA	S5PHONEA	S6PHONEA	S7PHONEA
.D=DK/NA			1			1
.M=Oth missing	1					
.R=RF	3	2		1		4
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	25	53	62	71	44	54
0.No	12653	11389	13355	12192	11141	12477
1.Yes	406	460	553	461	451	435

Value	S8PHONEA	S9PHONEA	S10PHONEA	S11PHONEA	S12PHONEA
.D=DK/NA		4	3	2	2
.R=RF	1	1	2		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	47	48	27	30	27
0.No	11243	10189	12849	11961	10525
1.Yes	443	402	551	491	469

Value	R2MONEYA	R3MONEYA	R4MONEYA	R5MONEYA	R6MONEYA	R7MONEYA
.D=DK/NA	5	1	3	4	3	4
.M=Oth missing	4	1				
.R=RF	4	3	4	2	3	8
.S=Skip		36	28	25	7	10
.X=Don't do	765	537	619	617	580	734
0.No	17539	16166	19305	17562	16196	17980
1.Yes	1325	1247	1425	1369	1376	1393

Value	R8MONEYA	R9MONEYA	R10MONEYA	R11MONEYA	R12MONEYA
.D=DK/NA	3	3	9	9	10
.R=RF	3	2	10	4	4
.S=Skip	7	9	135	18	17
.X=Don't do	698	630	590	499	461
0.No	16377	15225	19379	18323	16560
1.Yes	1381	1348	1911	1701	1695

Value	S2MONEYA	S3MONEYA	S4MONEYA	S5MONEYA	S6MONEYA	S7MONEYA
.D=DK/NA	4		1	2	2	1
.M=Oth missing	2	1				
.R=RF	3	2		1	3	4
.S=Skip		11	7	6	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	557	452	486	504	464	583
0.No	11841	10938	12906	11700	10667	11840
1.Yes	681	511	578	517	500	543

Value	S8MONEYA	S9MONEYA	S10MONEYA	S11MONEYA	S12MONEYA
.D=DK/NA	1	1	5	2	3
.R=RF	2	2	4		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	554	483	461	382	365
0.No	10666	9692	12168	11408	9988
1.Yes	511	466	794	692	667

Value	R2MEDSA	R3MEDSA	R4MEDSA	R5MEDSA	R6MEDSA	R7MEDSA
.D=DK/NA	4	1	6	2	6	6
.M=Oth missing	1					
.R=RF	2	4	4	2		4
.S=Skip		36	28	24	7	36
.X=Don't do	218	1243	36	24	7	14
.Z=Don't do/No if did			1278	1005	376	387
0.No	18674	16009	19211	17733	16962	18829
1.Yes	743	698	821	789	807	853

Value	R8MEDSA	R9MEDSA	R10MEDSA	R11MEDSA	R12MEDSA
.D=DK/NA	2		3	7	5
.R=RF	3	1	6	3	1
.S=Skip	7	9	135	18	17
.X=Don't do	9	9	30	16	25
.Z=Don't do/No if did	251	195	268	235	223
0.No	17322	16149	20552	19282	17520
1.Yes	875	854	1040	993	956

Value	S2MEDSA	S3MEDSA	S4MEDSA	S5MEDSA	S6MEDSA	S7MEDSA
.D=DK/NA	4		3			2
.M=Oth missing	1					
.R=RF	2	2		1		2
.S=Skip		11	7	5	3	10
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	113	837	23	13	3	9
.Z=Don't do/No if did			831	672	222	217
0.No	12549	10738	12730	11701	11077	12370
1.Yes	419	327	384	338	334	362

Value	S8MEDSA	S9MEDSA	S10MEDSA	S11MEDSA	S12MEDSA
.D=DK/NA				3	
.R=RF	2	1	3		
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	6	5	17	4	15
.Z=Don't do/No if did	142	97	147	136	122
0.No	11212	10197	12821	11931	10523
1.Yes	372	344	444	410	363

Value	R2SHOPA	R3SHOPA	R4SHOPA	R5SHOPA	R6SHOPA	R7SHOPA
.D=DK/NA	1	2		2	1	4
.M=Oth missing	1					
.Q=Not asked this wv	11420					
.R=RF		3	6	2		6
.S=Skip		36	28	24	7	45
.X=Don't do	228	638	724	724	650	685
0.No	6535	15421	18465	16827	15568	17375
1.Yes	1457	1891	2161	2000	1939	2014

Value	R8SHOPA	R9SHOPA	R10SHOPA	R11SHOPA	R12SHOPA
.D=DK/NA	1	1	6	10	9
.R=RF	3	1	6	6	1
.S=Skip	7	9	135	18	17
.X=Don't do	595	524	373	311	282
0.No	15820	14828	19170	17916	16295
1.Yes	2043	1854	2344	2293	2143

Value	S2SHOPA	S3SHOPA	S4SHOPA	S5SHOPA	S6SHOPA	S7SHOPA
.D=DK/NA	1				1	2
.M=Oth missing	1					
.Q=Not asked this wv	9123					
.R=RF		2	1	1		4
.S=Skip		11	7	5	3	10
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=Don't do	138	465	482	488	425	472
0.No	3662	10630	12565	11385	10457	11663
1.Yes	547	807	923	851	753	821

Value	S8SHOPA	S9SHOPA	S10SHOPA	S11SHOPA	S12SHOPA
.D=DK/NA		1	3	6	4
.R=RF	2	1	2	2	
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	389	315	205	171	154
0.No	10487	9602	12249	11360	9997
1.Yes	856	725	973	945	868

Value	R2MEALSA	R3MEALSA	R4MEALSA	R5MEALSA	R6MEALSA	R7MEALSA
.D=DK/NA		1	1	3	3	2
.M=Oth missing	1					
.Q=Not asked this wv	11420					
.R=RF	1	3	5	3		5
.S=Skip		36	28	24	7	10
.X=Don't do	435	970	1106	1083	1040	1049
0.No	7018	15739	18781	17034	15689	17625
1.Yes	767	1242	1463	1432	1426	1438

Value	R8MEALSA	R9MEALSA	R10MEALSA	R11MEALSA	R12MEALSA
.D=DK/NA		2	6	8	9
.R=RF	3	1	6	5	2
.S=Skip	7	9	135	18	17
.X=Don't do	847	756	558	500	393
0.No	16216	15095	19648	18341	16776
1.Yes	1396	1354	1681	1682	1550

Value	S2MEALSA	S3MEALSA	S4MEALSA	S5MEALSA	S6MEALSA	S7MEALSA
.D=DK/NA					2	1
.M=Oth missing	1					
.Q=Not asked this wv	9123					
.R=RF		2		1		3
.S=Skip		11	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=Don't do	338	783	844	818	754	759
0.No	3676	10591	12505	11309	10343	11639
1.Yes	334	528	622	597	537	569

Value	S8MEALSA	S9MEALSA	S10MEALSA	S11MEALSA	S12MEALSA
.D=DK/NA			2	5	6
.R=RF	2	1	3	1	1
.S=Skip	1	2	81	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	572	511	347	301	244
0.No	10577	9637	12393	11489	10159
1.Yes	583	495	687	688	613

## How Constructed

Each wave has a series of questions about limits on instrumental activities of daily living (IADLs), but the specific activities, the question wording, and possible answers vary across waves. These variables recode the raw variables for difficulty with instrumental activities of daily living (IADLs) as yes/no dummy variables, where "1" means "some difficulty" and "0" means not. Some measures described here are not normally used as IADLs but are included with them because they seemed to serve a similar measurement function in Wave 1. The measures described here are using the phone (RwPHONEA), taking medications (RwMEDSA), managing money (RwMONEYA), shopping for groceries (RwSHOPA), preparing meals (RwMEALSA), using a map (RwMAPA), and using a calculator (RwCALCA). In the following, references to Rw[iadl]A apply to all these variables.

Respondents are asked about different IADL activities in Waves 1 and 2 than in the rest of the waves. Wave 1 asks about using a map, a calculator, a microwave, and a computer, but not about preparing meals, shopping for groceries, using the phone, taking medications, or managing money, which are activities normally considered IADLs. From Wave 2 forward, the questions about using a microwave or a computer are dropped, but using the phone, taking medications, and managing money are added. In Wave 2A and from Wave 3 forward, the questions about using a calculator are not asked, but shopping for groceries and preparing meals are added. Using a map is asked in all waves except Wave 2A. From Wave 3 forward, the set of IADLs is consistent and includes using the phone, taking medications, managing money, shopping for groceries, preparing meals, and using a map.

We attempt to make consistent variables across waves. Because of significant differences in question wording in Wave 1, we do not include these variables for this interview year. There are other cross wave differences in the way HRS presented these questions in Waves 2H and 2A and the later waves that may introduce measurement errors in these variables. For example, in Wave 2H, "don't do" is not presented as an option in the instrument, and there are noticeably fewer "don't do" answers in this wave. Also "can't do" is not allowed as an answer in Wave 2H. In Wave 2A, the questions are based on whether the IADL can be done without help, and not specifically whether the Respondent has difficulty with it. In addition there is a slight difference in the question wording for using a map, and a difference in the questions for taking any medications between Wave 3 and later waves. The questions, and therefore, consistency, is much better beginning in Wave 4.

The variable derivations for some difficulty with IADLs(Rw[iadl]A) vary across waves because the question and responses can vary across waves. In all waves, a "don't know" or "refuse" answer to the first question is set to .D or .R, respectively. Generally a "1" indicates "some difficulty or can't do," "0" indicates "no difficulty" and "don't do" is set to special missing code .X, since the Respondent hasn't revealed whether s/he would have difficulty with the activity if s/he ever did it.

In Wave 2H, if a Respondent answers "yes" to the first question ("Do you have any difficulty with ...") R2[iadl]A is set to "1" for "some difficulty," regardless of how much difficulty the Respondent says s/he has in the follow-up question. The questions about shopping and preparing meals were not asked in this wave, so R2SHOPA and R2MEALSA are set to .Q for HRS Respondents in Wave 2.

In Wave 2A, the questions ask if the Respondent is able to do an activity without help. If the Respondent says s/he doesn't do the activity then a question asks if this is because of a health problem. Another question about difficulty groups shopping, preparing meals, taking medications, and using the phone together in one question. Because it is impossible to separate answers for specific IADLs, we don't use this question. So if the answer to the first question about doing an activity without help is "no," R2[iadl]A is set to "1," for "some difficulty," and if the answer is "yes," i.e., able to do without help, R2[iadl]A is set to "0," for "no difficulty." If the answer is "don't do" and it is because of a health problem, we set R2[iadl]A to "1" for "some difficulty." Otherwise a "don't do" response is set to .X.

For managing money in Wave 2A, "don't do" is not a possible answer, but those who respond "no" to the first question are asked if it is because of a health problem. In this case, if the Respondent is unable to manage money because of a health problem, R2MONEYA is set to "1" for "some difficulty." If unable to manage money, but not because of a health problem, R2MONEYA is set to .X for "don't do." If the Respondent is able to manage money without help, then R2MONEYA is set to "0" for "no difficulty." In Wave 2A, questions about using a map and using a calculator are not asked, so R2MAPA and R2CALCA are set to .Q for AHEAD Respondents in Wave 2.

For using a map, from Wave 3 forward, if a Respondent answers "yes" or "can't do" to a question asking if s/he has any difficulty, Rw[iadl]A is set to "1" for "some difficulty." If the answer is "no," Rw[iadl]A is set to "0," and if the answer is "don't do," Rw[iadl]A is set to .X.

For taking medications, the questions are different in Wave 3 than for later waves. In Wave 3, if the answer to the first question about any difficulty is "no" or "yes," then R3MEDSA is set to "0" for "no difficulty" or "1" for "some difficulty," respectively. If the answer is "can't do" and it is because of a health problem, then R3MEDSA is set to "1" for "some difficulty." If it isn't because of a health problem, or if the answer to the first question is "don't take medications," then R3MEDSA is set to .X. From Wave 4 forward, the coding is done in the same way as in Wave 3, except if the Respondent says "don't do" to the first question. In this case, another question asks if s/he thinks s/he would have difficulty if s/he did take medications. If the answer to this question is "yes," and it is because of a health problem, then RwMEDSA is set to "1" for "some difficulty." If the answer to this question is "no," then RwMEDSA is set to .Z, for "don't do, but wouldn't have difficulty if did." Otherwise RwMEDSA is set to .X.

For other IADLs from Wave 3 forward, if a Respondent answers "no" or "yes" to a question asking if s/he has any difficulty, Rw[iadl]A is set to "0" for "no difficulty" or "1" for "some difficulty," respectively. If the answer is "can't do" or "don't do" and it is because of a health problem, Rw[iadl]A is set to "1" for "some difficulty." Otherwise, Rw[iadl]A is set to .X.

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

Some of the Rw[iadl]A variables are used to construct an IADL summary index. Please see "IADL Summary."

Another version of these variables simply recodes the raw HRS variables. Please see "Instrumental Activities of Daily Living (IADLs): Raw recodes" for a description of this version.

A third version of these variables is derived for Wave 1 only (R1[iadl]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "IADLs: Recodes for comparison to Wallace and Herzog" for a description of the R1MAPW, R1CALCW, R1MCWVW, and R1COMPW variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes done in other waves (Rw[iadl]A) solely due to measurement differences in the raw data. The R1[iadl]W variables are not appropriate for comparison to the Rw[iadl]A variables in other waves.

## Cross Wave Differences in Original HRS Data

Each wave has a series of questions about limits on instrumental activities of daily living (IADLs), but the specific activities, the question wording, and possible answers vary across waves. Some measures described here are not normally used as IADLs, but are included with them because they seemed to serve a similar measurement function in Wave 1. The IADL measures described here are: using the phone (RwPHONE), taking medications (RwMEDS), managing money (RwMONEY), shopping for groceries (RwSHOP), preparing meals (RwMEALS), using a map (RwMAP), using a calculator (RwCALC), using a microwave (R1MCWV), and using a computer (R1COMP).

Respondents are asked about different IADL activities in Waves 1 and 2 than in the rest of the waves. Wave 1 asks about using a map, a calculator, a microwave, and a computer, but not about preparing meals, shopping for groceries, using the phone, taking medications, or managing money, which are activities normally considered IADLs. From Wave 2 forward, the questions about using a microwave or a computer are dropped, but using the phone, taking medications, and managing money are added. In Wave 2A and from Wave 3 forward, the questions about using a calculator are not asked, but shopping for groceries and preparing meals are added. Using a map is asked in all waves except Wave 2A. From Wave 3 forward, the set of IADLs is consistent and includes using the phone, taking medications, managing money, shopping for groceries, preparing meals, and using a map.

The question wording and answers also varied across waves. The Wave 1 questions ask:

"Here are some other activities that people may have difficulty with. How difficult is it for you to [...]?"

The Respondent can answer "not at all difficult," "a little difficult," "somewhat difficult," "very difficult/can't do," or "don't do." The answers translate into 4 codes from "1" for "not at all difficult" to "4" for "very difficult/can't do." Another code is used for the "Don't do" response. The specific wording for the IADLs is: use a map to figure out how to get around a strange place, use a microwave oven after reading the instructions, use a calculator to help balance your checkbook, and use a computer or word processor.

In Wave 2H the question wording is similar to that in Wave 1, but is asked in 2 parts:

1) "Here are some other activities that people may have difficulty with. Do you have any difficulty with ...?" Respondent can answer yes or no.

2) [IF YES] "Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments, so are observed less frequently than in other waves, simply because of questionnaire differences. This difference is considerable

among the IADLs. The specific wording for the IADLs is: using a map to figure out how to get around a strange place, using a calculator to help balance your checkbook, managing your money, making telephone calls, and following instructions for taking prescription medications.

In Wave 2A, the questions are asked differently for managing money and for other IADLs. The section is prefaced with the following:

"Here are a few other daily activities which some people have difficulty with. Please tell me whether you are able to do each activity without help from anyone else. If you don't do the activity at all, just tell me so."

Except for managing money, the IADL questions ask:

"Are you able to .. without help?" [IF DON'T DO] "Is that because of a health problem?"

If the Respondent reports being able to do any one of these activities without help, a question asks:

"Without help do you have any difficulty with [list of all applicable IADLs]?" [IF YES] "Is that a little or a lot of difficulty?"

The specific wording for these activities is: prepare(ing) hot meals, shop(ping) for groceries, make(ing) telephone calls and take(ing) medications.

For managing money the Wave 2A questions ask:

- 1) "Do you manage your money-such as paying your bills and keeping track of expenses, without anyone's help?"
- 2) [IF NO] "Is that because of a health or memory condition?"
- 3) [IF YES, DK, or RF to Q1, or YES to Q2] "Do you have any difficulty managing your money (when someone is helping you/without help)?"
- 4) [IF YES to Q3] "Is that a little or a lot of difficulty?"

From Wave 3 forward, the question wording is again similar to that in Wave 1, but prefaced with additional text. The question asks:

"Here are a few other activities which some people have difficulty with because of a physical, mental, emotional, or memory problem. Please tell me if you have any difficulty with each activity I name. If you don't do the activity at all, just tell me so. Exclude any difficulties you expect to last less than three months."

For using a map, the question in Wave 3 is: "Do you have any difficulty using a map to figure out how to get around in a strange place?" From Wave 4 forward, this is prefaced with "Because of a health or memory problem...." Responses may be "yes," "no," "can't do," or "don't do."

For other IADLs, a series of questions may be asked:

- 1) "Because of a health or memory problem do you have any difficulty with ...?" The Respondent can answer "yes," "no," "can't do", or "don't do." In Wave 3, for taking medications, the wording for "don't do" is "don't take medications."
- 2) From Wave 4 forward for taking medications [If DON'T DO to Q1] "Do you think you would have any difficulty



taking medications if you needed to do so?"

3) [If YES, DK, or RF to Q2 for taking medications from Wave 4 forward; CAN'T DO to Q1 for taking medications in Wave 3; or CAN'T DO or DON'T DO to Q1 for all other activities] "Is that because of a health or memory problem?" The Respondent can answer "yes" or "no." In Wave 3A, this question is also asked if the response to Q1 is don't know or refuse. In Wave 3A and 3H, this question is skipped for a "don't take medications" response. From Wave 4 forward, whether the question is asked depends on the answer to Q2 for taking medications, if Q1 had a "don't do" response.

4) [If YES, DK, or RF to Q1 or Q3] "Does anyone help you ...?" The Respondent can answer "yes" or "no." In Wave 3, this question is not asked for managing money when the Q1 response is "Don't Know" or "Refuse." From Wave 4 forward, this question is not asked if the Respondent is living in a nursing home. In Wave 7, a mistake in the Spanish instrument allowed "can't do" and "don't do" responses for the help questions, and a few of these responses are given for all of the IADLs, except help with medications and money.

The specific wording for these activities is: prepare(ing) a hot meal, shop(ping) for groceries, make(ing) phone calls, take(ing) medications, and manage(ing) your money – such as paying your bills and keeping track of expenses.

## HRS Variables Used

### AHEAD 1993:

B903A1	E52. IADL W/OUT HELP-PREPARE HOT MEAL
B903A2	E52. IADL W/OUT HELP-SHOP FOR GROCERIES
B903A3	E52. IADL W/OUT HELP-MAKE PHONE CALLS
B903A4	E52. IADL W/OUT HELP-TAKE MEDICATIONS
B904A1	E52a. IADL WHY DONT-PREPARE HOT MEALS
B904A2	E52a. IADL WHY DONT-SHOP FOR GROCERIES
B904A3	E52a. IADL WHY DONT-MAKE PHONE CALLS
B904A4	E52a. IADL WHY DONT-TAKE MEDICATIONS
B948	E57. IADL MONEY
B949	E57a. MONEY WHY CANT

### HRS 1994:

W323	B5.USING A MAP
W324	B5a.USING A CALCULATOR
W325	B5b.MANAGING MONEY
W326	B5c.MAKING TELEPHONE CAL
W327	B5d.TAKING PRESCRIPTION

### AHEAD 1995:

D2012	E93.MAPS
D2021	E95.IADL MEALS DIFF
D2023	E95B.MEALS -WHY DONT
D2026	E96.IADL GROC DIFF
D2028	E96B.GROC -WHY DONT
D2031	E97.IADLS PHONE DIFF
D2033	E97B.PHONE -WHY DONT
D2036	E98.IADLS MEDICATION DIFF
D2038	E98B.MED-WHY DONT
D2099	E106.IADL MONEY DIFF
D2100	E106A.MONEY HEALTH PROBLEM

### HRS 1996:

E2027	E93.MAPS
E2036	E95.IADL MEALS DIFF
E2038	E95B.MEALS -WHY DONT
E2041	E96.IADL GROC DIFF
E2043	E96B.GROC -WHY DONT
E2046	E97.IADLS PHONE DIFF

E2048	E97B.PHONE -WHY DONT
E2051	E98.IADLS MEDICATION DIFF
E2053	E98B.MED-WHY DONT
E2093	E106.IADL MONEY DIFF
E2094	E106A.MONEY HEALTH PROBLEM
HRS 1998:	
F2553	E93.MAPS
F2562	E95.IADL MEALS DIFF
F2564	E95B.MEALS -WHY DONT
F2567	E96.IADL GROC DIFF
F2569	E96B.GROC -WHY DONT
F2572	E97.IADLS PHONE DIFF
F2574	E97B.PHONE -WHY DONT
F2577	E98.IADLS MEDICATION DIFF
F2578	E98A
F2579	E98B.MED-WHY DONT
F2618	E106.IADL MONEY DIFF
F2619	E106A.MONEY HEALTH PROBLEM
HRS 2000:	
G2851	E93.MAPS
G2860	E95.IADL MEALS DIFF
G2862	E95B.MEALS -WHY DONT
G2865	E96.IADL GROC DIFF
G2867	E96B.GROC -WHY DONT
G2870	E97.IADLS PHONE DIFF
G2872	E97B.PHONE -WHY DONT
G2875	E98.IADLS MEDICATION DIFF
G2876	E98A.IADLS MED IF NEEDED DIFF
G2877	E98B.MED-WHY DONT
G2916	E106.IADL MONEY DIFF
G2917	E106A.MONEY HEALTH PROBLEM
HRS 2002:	
HG040	DIFFICULTY- USING MAPS
HG041	IADL MEAL PREPARATION DIFFICULTY
HG042	WHY- MEAL PREPARATION DIFFICULTY
HG044	IADL GROC SHOP DIFFICULTY
HG045	WHY- GROC SHOP DIFFICULTY
HG047	IADL MAKING PHONE CALLS DIFFICULTY
HG048	WHY- MAKING PHONE CALLS DIFFICULTY
HG050	IADL TAKING MEDICATION DIFFICULTY
HG051	IADL TAKING MEDS IF NEEDED DIFFICULTY
HG052	WHY- TAKING MEDICATIONS DIFFICULTY
HG059	IADL MANAGING MONEY DIFFICULTY
HG060	WHY- MANAGING MONEY DIFFICULTY
HRS 2004:	
JG040	DIFFICULTY- USING MAPS
JG041	IADL MEAL PREPARATION DIFFICULTY
JG042	WHY- MEAL PREPARATION DIFFICULTY
JG044	IADL GROC SHOP DIFFICULTY
JG045	WHY- GROC SHOP DIFFICULTY
JG047	IADL MAKING PHONE CALLS DIFFICULTY
JG048	WHY- MAKING PHONE CALLS DIFFICULTY
JG050	IADL TAKING MEDICATION DIFFICULTY
JG051	IADL TAKING MEDS IF NEEDED DIFFICULTY
JG052	WHY- TAKING MEDICATIONS DIFFICULTY
JG059	IADL MANAGING MONEY DIFFICULTY
JG060	WHY- MANAGING MONEY DIFFICULTY
HRS 2006:	
KG040	DIFFICULTY- USING MAPS

KG041 IADL MEAL PREPARATION DIFFICULTY  
KG042 WHY- MEAL PREPARATION DIFFICULTY  
KG044 IADL GROC SHOP DIFFICULTY  
KG045 WHY- GROC SHOP DIFFICULTY  
KG047 IADL MAKING PHONE CALLS DIFFICULTY  
KG048 WHY- MAKING PHONE CALLS DIFFICULTY  
KG050 IADL TAKING MEDICATION DIFFICULTY  
KG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
KG052 WHY- TAKING MEDICATIONS DIFFICULTY  
KG059 IADL MANAGING MONEY DIFFICULTY  
KG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2008:  
LG040 DIFFICULTY- USING MAPS  
LG041 IADL MEAL PREPARATION DIFFICULTY  
LG042 WHY- MEAL PREPARATION DIFFICULTY  
LG044 IADL GROC SHOP DIFFICULTY  
LG045 WHY- GROC SHOP DIFFICULTY  
LG047 IADL MAKING PHONE CALLS DIFFICULTY  
LG048 WHY- MAKING PHONE CALLS DIFFICULTY  
LG050 IADL TAKING MEDICATION DIFFICULTY  
LG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
LG052 WHY- TAKING MEDICATIONS DIFFICULTY  
LG059 IADL MANAGING MONEY DIFFICULTY  
LG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2010:  
MG040 DIFFICULTY- USING MAPS  
MG041 IADL MEAL PREPARATION DIFFICULTY  
MG042 WHY- MEAL PREPARATION DIFFICULTY  
MG044 IADL GROC SHOP DIFFICULTY  
MG045 WHY- GROC SHOP DIFFICULTY  
MG047 IADL MAKING PHONE CALLS DIFFICULTY  
MG048 WHY- MAKING PHONE CALLS DIFFICULTY  
MG050 IADL TAKING MEDICATION DIFFICULTY  
MG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
MG052 WHY- TAKING MEDICATIONS DIFFICULTY  
MG059 IADL MANAGING MONEY DIFFICULTY  
MG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2012:  
NG040 DIFFICULTY- USING MAPS  
NG041 IADL MEAL PREPARATION DIFFICULTY  
NG042 WHY- MEAL PREPARATION DIFFICULTY  
NG044 IADL GROC SHOP DIFFICULTY  
NG045 WHY- GROC SHOP DIFFICULTY  
NG047 IADL MAKING PHONE CALLS DIFFICULTY  
NG048 WHY- MAKING PHONE CALLS DIFFICULTY  
NG050 IADL TAKING MEDICATION DIFFICULTY  
NG051 IADL TAKING MEDS IF NEEDED DIFFICULTY  
NG052 WHY- TAKING MEDICATIONS DIFFICULTY  
NG059 IADL MANAGING MONEY DIFFICULTY  
NG060 WHY- MANAGING MONEY DIFFICULTY

HRS 2014:  
OG040 DIFFICULTY- USING MAPS  
OG041 IADL MEAL PREPARATION DIFFICULTY  
OG042 WHY- MEAL PREPARATION DIFFICULTY  
OG044 IADL GROC SHOP DIFFICULTY  
OG045 WHY- GROC SHOP DIFFICULTY  
OG047 IADL MAKING PHONE CALLS DIFFICULTY  
OG048 WHY- MAKING PHONE CALLS DIFFICULTY  
OG050 IADL TAKING MEDICATION DIFFICULTY

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OG051	IADL TAKING MEDS IF NEEDED DIFFICULTY
OG052	WHY- TAKING MEDICATIONS DIFFICULTY
OG059	IADL MANAGING MONEY DIFFICULTY
OG060	WHY- MANAGING MONEY DIFFICULTY

<b>IADLs: Recodes for comparison to Wallace and Herzog</b>
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Wave	Variable	Label	Type
1	R1MAPW	R1MAPW:W1 R Any Diff-Use a map	Categ
1	S1MAPW	S1MAPW:W1 S Any Diff-Use a map	Categ
1	R1CALCW	R1CALCW:W1 R Any Diff-Use a calculator	Categ
1	S1CALCW	S1CALCW:W1 S Any Diff-Use a calculator	Categ
1	R1MCWVW	R1MCWVW:W1 R Any Diff-Use a microwave	Categ
1	S1MCWVW	S1MCWVW:W1 S Any Diff-Use a microwave	Categ
1	R1COMPW	R1COMPW:W1 R Any Diff-Use a computer	Categ
1	S1COMPW	S1COMPW:W1 S Any Diff-Use a computer	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MAPW	12188	0.33	0.47	0.0	1.0
S1MAPW	9620	0.31	0.46	0.0	1.0
R1CALCW	11254	0.11	0.32	0.0	1.0
S1CALCW	8923	0.11	0.31	0.0	1.0
R1MCWVW	12095	0.11	0.31	0.0	1.0
S1MCWVW	9562	0.10	0.31	0.0	1.0
R1COMPW	7334	0.45	0.50	0.0	1.0
S1COMPW	5821	0.45	0.50	0.0	1.0

## Categorical Variable Codes

Value	R1MAPW
.X=Don't do	464
0.No	8225
1.Yes	3963

Value	S1MAPW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	280
0.No	6644
1.Yes	2976

Value	R1CALCW
.X=Don't do	1398
0.No	9979
1.Yes	1275

Value	S1CALCW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	977
0.No	7973
1.Yes	950

Value	R1MCWVW
.X=Don't do	557
0.No	10797
1.Yes	1298

Value	S1MCWVW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	338
0.No	8560
1.Yes	1002

Value	R1COMPW
.X=Don't do	5318
0.No	4059
1.Yes	3275

Value	S1COMPW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	4079
0.No	3218
1.Yes	2603

## How Constructed

These IADL variables are derived for Wave 1 only. They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper (Wallace and Herzog, 1995). These variables are provided for comparison to the results found in that paper.

Wallace and Herzog recode the IADL variables to 1 for "any difficulty" if the Respondent answered "a little difficult," "somewhat difficult," or "very difficult/can't do." A response of "not difficult at all" is recoded to zero. This recoding scheme is applied for these variables to attempt to replicate the results reported in their paper.

The spouse variables are taken from the spouse's self-reported Wave 1 data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

There are several other versions of these variables. One version simply recodes the raw HRS variables. Please see the descriptions of these (RwMAP, RwCALC, R1MCWV, R1COMP) under "Instrumental Activities of Daily Living (IADLs): Raw recodes."

Another version recodes a yes/no dummy variable in waves other than Wave 1, but these are not comparable with the Wallace and Herzog recodes. Please see the descriptions of these (RwMAPA, RwCALCA, R1MCWVA, R1COMPA) under "Instrumental Activities of Daily Living (IADLs): Some difficulty."

Some of the Wallace and Herzog indices are also derived, and include some of these measures in creating functional limitation indices, including an IADL summary index for Wave 1. Please see "IADL Summary."

## Cross Wave Differences in Original HRS Data

Each wave has a series of questions about limits on instrumental activities of daily living (IADLs), but the specific activities, the question wording, and possible answers vary across waves.

Wave 1 asks about using a map, a calculator, a microwave, and a computer, but not about preparing meals, shopping for groceries, using the phone, taking medications, or managing money. From Wave 2 forward, the questions about using a microwave or a computer are dropped, but using the phone, taking medications, and managing money are added. From Wave 2A and Wave 3 forward, the questions about using a calculator are no longer asked, but shopping for groceries and preparing meals are added. Please note that only using a map is consistently asked in all waves, except Wave 2A.

The question wording and answers also varied across waves. The Wave 1 questions ask:

"Here are some other activities that people may have difficulty with. How difficult is it for you to [...]?"

The Respondent can answer: not at all difficult, a little difficult, somewhat difficult, very difficult/can't do, or don't do. The answers translate into 4 codes from "1" for "not at all difficult" to "4" for "very difficult/can't do." Another code is used for the "Don't do" response.

The wording for the map activity is "use a map to figure out how to get around a strange place." The wording for the calculator activity is "use a calculator to help balance your checkbook." The wording for the microwave activity is "use a microwave oven after reading the instructions." The wording for the computer activity is "use a computer or word processor."

In subsequent waves, there is a question that simply asks if the Respondent has any difficulty with a particular activity. The question wording and possible answers are sufficiently different that the levels of Wave 1 codes cannot be derived from the data.

## HRS Variables Used

HRS 1992:

V321	B5A:USE MAP, STRNG P:IMP
V322	B5B:USE MCRWV W/ INS:IMP
V323	B5C:USE CALCULATOR :IMP
V324	B5D:USE COMPUTER :IMP



<b>Other Functional Limitations: Raw recodes</b>
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Wave	Variable	Label	Type
1	R1WALKS	R1WALKS:W1 R Diff-Walk sev blocks	Categ
2	R2WALKS	R2WALKS:W2 R Diff-Walk sev blocks	Categ
3	R3WALKS	R3WALKS:W3 R Diff-Walk sev blocks	Categ
4	R4WALKS	R4WALKS:W4 R Diff-Walk sev blocks	Categ
5	R5WALKS	R5WALKS:W5 R Diff-Walk sev blocks	Categ
6	R6WALKS	R6WALKS:W6 R Diff-Walk sev blocks	Categ
7	R7WALKS	R7WALKS:W7 R Diff-Walk sev blocks	Categ
8	R8WALKS	R8WALKS:W8 R Diff-Walk sev blocks	Categ
9	R9WALKS	R9WALKS:W9 R Diff-Walk sev blocks	Categ
10	R10WALKS	R10WALKS:W10 R Diff-Walk sev blocks	Categ
11	R11WALKS	R11WALKS:W11 R Diff-Walk sev blocks	Categ
12	R12WALKS	R12WALKS:W12 R Diff-Walk sev blocks	Categ
1	S1WALKS	S1WALKS:W1 S Diff-Walk sev blocks	Categ
2	S2WALKS	S2WALKS:W2 S Diff-Walk sev blocks	Categ
3	S3WALKS	S3WALKS:W3 S Diff-Walk sev blocks	Categ
4	S4WALKS	S4WALKS:W4 S Diff-Walk sev blocks	Categ
5	S5WALKS	S5WALKS:W5 S Diff-Walk sev blocks	Categ
6	S6WALKS	S6WALKS:W6 S Diff-Walk sev blocks	Categ
7	S7WALKS	S7WALKS:W7 S Diff-Walk sev blocks	Categ
8	S8WALKS	S8WALKS:W8 S Diff-Walk sev blocks	Categ
9	S9WALKS	S9WALKS:W9 S Diff-Walk sev blocks	Categ
10	S10WALKS	S10WALKS:W10 S Diff-Walk sev blocks	Categ
11	S11WALKS	S11WALKS:W11 S Diff-Walk sev blocks	Categ
12	S12WALKS	S12WALKS:W12 S Diff-Walk sev blocks	Categ
1	R1JOG	R1JOG:W1 R Diff-Jog one mile	Categ
2	R2JOG	R2JOG:W2 R Diff-Jog one mile	Categ
3	R3JOG	R3JOG:W3 R Diff-Jog one mile	Categ
4	R4JOG	R4JOG:W4 R Diff-Jog one mile	Categ
5	R5JOG	R5JOG:W5 R Diff-Jog one mile	Categ
6	R6JOG	R6JOG:W6 R Diff-Jog one mile	Categ
7	R7JOG	R7JOG:W7 R Diff-Jog one mile	Categ
8	R8JOG	R8JOG:W8 R Diff-Jog one mile	Categ
9	R9JOG	R9JOG:W9 R Diff-Jog one mile	Categ
10	R10JOG	R10JOG:W10 R Diff-Jog one mile	Categ
11	R11JOG	R11JOG:W11 R Diff-Jog one mile	Categ
12	R12JOG	R12JOG:W12 R Diff-Jog one mile	Categ
1	S1JOG	S1JOG:W1 S Diff-Jog one mile	Categ
2	S2JOG	S2JOG:W2 S Diff-Jog one mile	Categ
3	S3JOG	S3JOG:W3 S Diff-Jog one mile	Categ
4	S4JOG	S4JOG:W4 S Diff-Jog one mile	Categ
5	S5JOG	S5JOG:W5 S Diff-Jog one mile	Categ
6	S6JOG	S6JOG:W6 S Diff-Jog one mile	Categ
7	S7JOG	S7JOG:W7 S Diff-Jog one mile	Categ
8	S8JOG	S8JOG:W8 S Diff-Jog one mile	Categ
9	S9JOG	S9JOG:W9 S Diff-Jog one mile	Categ
10	S10JOG	S10JOG:W10 S Diff-Jog one mile	Categ
11	S11JOG	S11JOG:W11 S Diff-Jog one mile	Categ
12	S12JOG	S12JOG:W12 S Diff-Jog one mile	Categ
1	R1WALK1	R1WALK1:W1 R Diff-Walk one block	Categ
2	R2WALK1	R2WALK1:W2 R Diff-Walk one block	Categ
3	R3WALK1	R3WALK1:W3 R Diff-Walk one block	Categ
4	R4WALK1	R4WALK1:W4 R Diff-Walk one block	Categ
5	R5WALK1	R5WALK1:W5 R Diff-Walk one block	Categ
6	R6WALK1	R6WALK1:W6 R Diff-Walk one block	Categ
7	R7WALK1	R7WALK1:W7 R Diff-Walk one block	Categ
8	R8WALK1	R8WALK1:W8 R Diff-Walk one block	Categ
9	R9WALK1	R9WALK1:W9 R Diff-Walk one block	Categ
10	R10WALK1	R10WALK1:W10 R Diff-Walk one block	Categ
11	R11WALK1	R11WALK1:W11 R Diff-Walk one block	Categ
12	R12WALK1	R12WALK1:W12 R Diff-Walk one block	Categ
1	S1WALK1	S1WALK1:W1 S Diff-Walk one block	Categ

2	S2WALK1	S2WALK1:W2 S Diff-Walk one block	Categ
3	S3WALK1	S3WALK1:W3 S Diff-Walk one block	Categ
4	S4WALK1	S4WALK1:W4 S Diff-Walk one block	Categ
5	S5WALK1	S5WALK1:W5 S Diff-Walk one block	Categ
6	S6WALK1	S6WALK1:W6 S Diff-Walk one block	Categ
7	S7WALK1	S7WALK1:W7 S Diff-Walk one block	Categ
8	S8WALK1	S8WALK1:W8 S Diff-Walk one block	Categ
9	S9WALK1	S9WALK1:W9 S Diff-Walk one block	Categ
10	S10WALK1	S10WALK1:W10 S Diff-Walk one block	Categ
11	S11WALK1	S11WALK1:W11 S Diff-Walk one block	Categ
12	S12WALK1	S12WALK1:W12 S Diff-Walk one block	Categ
1	R1SIT	R1SIT:W1 R Diff-Sit for 2 hours	Categ
2	R2SIT	R2SIT:W2 R Diff-Sit for 2 hours	Categ
3	R3SIT	R3SIT:W3 R Diff-Sit for 2 hours	Categ
4	R4SIT	R4SIT:W4 R Diff-Sit for 2 hours	Categ
5	R5SIT	R5SIT:W5 R Diff-Sit for 2 hours	Categ
6	R6SIT	R6SIT:W6 R Diff-Sit for 2 hours	Categ
7	R7SIT	R7SIT:W7 R Diff-Sit for 2 hours	Categ
8	R8SIT	R8SIT:W8 R Diff-Sit for 2 hours	Categ
9	R9SIT	R9SIT:W9 R Diff-Sit for 2 hours	Categ
10	R10SIT	R10SIT:W10 R Diff-Sit for 2 hours	Categ
11	R11SIT	R11SIT:W11 R Diff-Sit for 2 hours	Categ
12	R12SIT	R12SIT:W12 R Diff-Sit for 2 hours	Categ
1	S1SIT	S1SIT:W1 S Diff-Sit for 2 hours	Categ
2	S2SIT	S2SIT:W2 S Diff-Sit for 2 hours	Categ
3	S3SIT	S3SIT:W3 S Diff-Sit for 2 hours	Categ
4	S4SIT	S4SIT:W4 S Diff-Sit for 2 hours	Categ
5	S5SIT	S5SIT:W5 S Diff-Sit for 2 hours	Categ
6	S6SIT	S6SIT:W6 S Diff-Sit for 2 hours	Categ
7	S7SIT	S7SIT:W7 S Diff-Sit for 2 hours	Categ
8	S8SIT	S8SIT:W8 S Diff-Sit for 2 hours	Categ
9	S9SIT	S9SIT:W9 S Diff-Sit for 2 hours	Categ
10	S10SIT	S10SIT:W10 S Diff-Sit for 2 hours	Categ
11	S11SIT	S11SIT:W11 S Diff-Sit for 2 hours	Categ
12	S12SIT	S12SIT:W12 S Diff-Sit for 2 hours	Categ
1	R1CHAIR	R1CHAIR:W1 R Diff-Get up fr chair	Categ
2	R2CHAIR	R2CHAIR:W2 R Diff-Get up fr chair	Categ
3	R3CHAIR	R3CHAIR:W3 R Diff-Get up fr chair	Categ
4	R4CHAIR	R4CHAIR:W4 R Diff-Get up fr chair	Categ
5	R5CHAIR	R5CHAIR:W5 R Diff-Get up fr chair	Categ
6	R6CHAIR	R6CHAIR:W6 R Diff-Get up fr chair	Categ
7	R7CHAIR	R7CHAIR:W7 R Diff-Get up fr chair	Categ
8	R8CHAIR	R8CHAIR:W8 R Diff-Get up fr chair	Categ
9	R9CHAIR	R9CHAIR:W9 R Diff-Get up fr chair	Categ
10	R10CHAIR	R10CHAIR:W10 R Diff-Get up fr chair	Categ
11	R11CHAIR	R11CHAIR:W11 R Diff-Get up fr chair	Categ
12	R12CHAIR	R12CHAIR:W12 R Diff-Get up fr chair	Categ
1	S1CHAIR	S1CHAIR:W1 S Diff-Get up fr chair	Categ
2	S2CHAIR	S2CHAIR:W2 S Diff-Get up fr chair	Categ
3	S3CHAIR	S3CHAIR:W3 S Diff-Get up fr chair	Categ
4	S4CHAIR	S4CHAIR:W4 S Diff-Get up fr chair	Categ
5	S5CHAIR	S5CHAIR:W5 S Diff-Get up fr chair	Categ
6	S6CHAIR	S6CHAIR:W6 S Diff-Get up fr chair	Categ
7	S7CHAIR	S7CHAIR:W7 S Diff-Get up fr chair	Categ
8	S8CHAIR	S8CHAIR:W8 S Diff-Get up fr chair	Categ
9	S9CHAIR	S9CHAIR:W9 S Diff-Get up fr chair	Categ
10	S10CHAIR	S10CHAIR:W10 S Diff-Get up fr chair	Categ
11	S11CHAIR	S11CHAIR:W11 S Diff-Get up fr chair	Categ
12	S12CHAIR	S12CHAIR:W12 S Diff-Get up fr chair	Categ
1	R1CLIMS	R1CLIMS:W1 R Diff-Climb sev flt stair	Categ
2	R2CLIMS	R2CLIMS:W2 R Diff-Climb sev flt stair	Categ
3	R3CLIMS	R3CLIMS:W3 R Diff-Climb sev flt stair	Categ
4	R4CLIMS	R4CLIMS:W4 R Diff-Climb sev flt stair	Categ
5	R5CLIMS	R5CLIMS:W5 R Diff-Climb sev flt stair	Categ
6	R6CLIMS	R6CLIMS:W6 R Diff-Climb sev flt stair	Categ
7	R7CLIMS	R7CLIMS:W7 R Diff-Climb sev flt stair	Categ
8	R8CLIMS	R8CLIMS:W8 R Diff-Climb sev flt stair	Categ

9	R9CLIMS	R9CLIMS:W9 R Diff-Climb sev flt stair	Categ
10	R10CLIMS	R10CLIMS:W10 R Diff-Climb sev flt stair	Categ
11	R11CLIMS	R11CLIMS:W11 R Diff-Climb sev flt stair	Categ
12	R12CLIMS	R12CLIMS:W12 R Diff-Climb sev flt stair	Categ
1	S1CLIMS	S1CLIMS:W1 S Diff-Climb sev flt stair	Categ
2	S2CLIMS	S2CLIMS:W2 S Diff-Climb sev flt stair	Categ
3	S3CLIMS	S3CLIMS:W3 S Diff-Climb sev flt stair	Categ
4	S4CLIMS	S4CLIMS:W4 S Diff-Climb sev flt stair	Categ
5	S5CLIMS	S5CLIMS:W5 S Diff-Climb sev flt stair	Categ
6	S6CLIMS	S6CLIMS:W6 S Diff-Climb sev flt stair	Categ
7	S7CLIMS	S7CLIMS:W7 S Diff-Climb sev flt stair	Categ
8	S8CLIMS	S8CLIMS:W8 S Diff-Climb sev flt stair	Categ
9	S9CLIMS	S9CLIMS:W9 S Diff-Climb sev flt stair	Categ
10	S10CLIMS	S10CLIMS:W10 S Diff-Climb sev flt stair	Categ
11	S11CLIMS	S11CLIMS:W11 S Diff-Climb sev flt stair	Categ
12	S12CLIMS	S12CLIMS:W12 S Diff-Climb sev flt stair	Categ
1	R1CLIM1	R1CLIM1:W1 R Diff-Climb one flt stair	Categ
2	R2CLIM1	R2CLIM1:W2 R Diff-Climb one flt stair	Categ
3	R3CLIM1	R3CLIM1:W3 R Diff-Climb one flt stair	Categ
4	R4CLIM1	R4CLIM1:W4 R Diff-Climb one flt stair	Categ
5	R5CLIM1	R5CLIM1:W5 R Diff-Climb one flt stair	Categ
6	R6CLIM1	R6CLIM1:W6 R Diff-Climb one flt stair	Categ
7	R7CLIM1	R7CLIM1:W7 R Diff-Climb one flt stair	Categ
8	R8CLIM1	R8CLIM1:W8 R Diff-Climb one flt stair	Categ
9	R9CLIM1	R9CLIM1:W9 R Diff-Climb one flt stair	Categ
10	R10CLIM1	R10CLIM1:W10 R Diff-Climb one flt stair	Categ
11	R11CLIM1	R11CLIM1:W11 R Diff-Climb one flt stair	Categ
12	R12CLIM1	R12CLIM1:W12 R Diff-Climb one flt stair	Categ
1	S1CLIM1	S1CLIM1:W1 S Diff-Climb one flt stair	Categ
2	S2CLIM1	S2CLIM1:W2 S Diff-Climb one flt stair	Categ
3	S3CLIM1	S3CLIM1:W3 S Diff-Climb one flt stair	Categ
4	S4CLIM1	S4CLIM1:W4 S Diff-Climb one flt stair	Categ
5	S5CLIM1	S5CLIM1:W5 S Diff-Climb one flt stair	Categ
6	S6CLIM1	S6CLIM1:W6 S Diff-Climb one flt stair	Categ
7	S7CLIM1	S7CLIM1:W7 S Diff-Climb one flt stair	Categ
8	S8CLIM1	S8CLIM1:W8 S Diff-Climb one flt stair	Categ
9	S9CLIM1	S9CLIM1:W9 S Diff-Climb one flt stair	Categ
10	S10CLIM1	S10CLIM1:W10 S Diff-Climb one flt stair	Categ
11	S11CLIM1	S11CLIM1:W11 S Diff-Climb one flt stair	Categ
12	S12CLIM1	S12CLIM1:W12 S Diff-Climb one flt stair	Categ
1	R1STOOP	R1STOOP:W1 R Diff-Stoop/Kneel/Crouch	Categ
2	R2STOOP	R2STOOP:W2 R Diff-Stoop/Kneel/Crouch	Categ
3	R3STOOP	R3STOOP:W3 R Diff-Stoop/Kneel/Crouch	Categ
4	R4STOOP	R4STOOP:W4 R Diff-Stoop/Kneel/Crouch	Categ
5	R5STOOP	R5STOOP:W5 R Diff-Stoop/Kneel/Crouch	Categ
6	R6STOOP	R6STOOP:W6 R Diff-Stoop/Kneel/Crouch	Categ
7	R7STOOP	R7STOOP:W7 R Diff-Stoop/Kneel/Crouch	Categ
8	R8STOOP	R8STOOP:W8 R Diff-Stoop/Kneel/Crouch	Categ
9	R9STOOP	R9STOOP:W9 R Diff-Stoop/Kneel/Crouch	Categ
10	R10STOOP	R10STOOP:W10 R Diff-Stoop/Kneel/Crouch	Categ
11	R11STOOP	R11STOOP:W11 R Diff-Stoop/Kneel/Crouch	Categ
12	R12STOOP	R12STOOP:W12 R Diff-Stoop/Kneel/Crouch	Categ
1	S1STOOP	S1STOOP:W1 S Diff-Stoop/Kneel/Crouch	Categ
2	S2STOOP	S2STOOP:W2 S Diff-Stoop/Kneel/Crouch	Categ
3	S3STOOP	S3STOOP:W3 S Diff-Stoop/Kneel/Crouch	Categ
4	S4STOOP	S4STOOP:W4 S Diff-Stoop/Kneel/Crouch	Categ
5	S5STOOP	S5STOOP:W5 S Diff-Stoop/Kneel/Crouch	Categ
6	S6STOOP	S6STOOP:W6 S Diff-Stoop/Kneel/Crouch	Categ
7	S7STOOP	S7STOOP:W7 S Diff-Stoop/Kneel/Crouch	Categ
8	S8STOOP	S8STOOP:W8 S Diff-Stoop/Kneel/Crouch	Categ
9	S9STOOP	S9STOOP:W9 S Diff-Stoop/Kneel/Crouch	Categ
10	S10STOOP	S10STOOP:W10 S Diff-Stoop/Kneel/Crouch	Categ
11	S11STOOP	S11STOOP:W11 S Diff-Stoop/Kneel/Crouch	Categ
12	S12STOOP	S12STOOP:W12 S Diff-Stoop/Kneel/Crouch	Categ
1	R1LIFT	R1LIFT:W1 R Diff-Lift/carry 10lbs	Categ
2	R2LIFT	R2LIFT:W2 R Diff-Lift/carry 10lbs	Categ

3	R3LIFT	R3LIFT:W3 R Diff-Lift/carry 10lbs	Categ
4	R4LIFT	R4LIFT:W4 R Diff-Lift/carry 10lbs	Categ
5	R5LIFT	R5LIFT:W5 R Diff-Lift/carry 10lbs	Categ
6	R6LIFT	R6LIFT:W6 R Diff-Lift/carry 10lbs	Categ
7	R7LIFT	R7LIFT:W7 R Diff-Lift/carry 10lbs	Categ
8	R8LIFT	R8LIFT:W8 R Diff-Lift/carry 10lbs	Categ
9	R9LIFT	R9LIFT:W9 R Diff-Lift/carry 10lbs	Categ
10	R10LIFT	R10LIFT:W10 R Diff-Lift/carry 10lbs	Categ
11	R11LIFT	R11LIFT:W11 R Diff-Lift/carry 10lbs	Categ
12	R12LIFT	R12LIFT:W12 R Diff-Lift/carry 10lbs	Categ
1	S1LIFT	S1LIFT:W1 S Diff-Lift/carry 10lbs	Categ
2	S2LIFT	S2LIFT:W2 S Diff-Lift/carry 10lbs	Categ
3	S3LIFT	S3LIFT:W3 S Diff-Lift/carry 10lbs	Categ
4	S4LIFT	S4LIFT:W4 S Diff-Lift/carry 10lbs	Categ
5	S5LIFT	S5LIFT:W5 S Diff-Lift/carry 10lbs	Categ
6	S6LIFT	S6LIFT:W6 S Diff-Lift/carry 10lbs	Categ
7	S7LIFT	S7LIFT:W7 S Diff-Lift/carry 10lbs	Categ
8	S8LIFT	S8LIFT:W8 S Diff-Lift/carry 10lbs	Categ
9	S9LIFT	S9LIFT:W9 S Diff-Lift/carry 10lbs	Categ
10	S10LIFT	S10LIFT:W10 S Diff-Lift/carry 10lbs	Categ
11	S11LIFT	S11LIFT:W11 S Diff-Lift/carry 10lbs	Categ
12	S12LIFT	S12LIFT:W12 S Diff-Lift/carry 10lbs	Categ
1	R1DIME	R1DIME:W1 R Diff-Pick up a dime	Categ
2	R2DIME	R2DIME:W2 R Diff-Pick up a dime	Categ
3	R3DIME	R3DIME:W3 R Diff-Pick up a dime	Categ
4	R4DIME	R4DIME:W4 R Diff-Pick up a dime	Categ
5	R5DIME	R5DIME:W5 R Diff-Pick up a dime	Categ
6	R6DIME	R6DIME:W6 R Diff-Pick up a dime	Categ
7	R7DIME	R7DIME:W7 R Diff-Pick up a dime	Categ
8	R8DIME	R8DIME:W8 R Diff-Pick up a dime	Categ
9	R9DIME	R9DIME:W9 R Diff-Pick up a dime	Categ
10	R10DIME	R10DIME:W10 R Diff-Pick up a dime	Categ
11	R11DIME	R11DIME:W11 R Diff-Pick up a dime	Categ
12	R12DIME	R12DIME:W12 R Diff-Pick up a dime	Categ
1	S1DIME	S1DIME:W1 S Diff-Pick up a dime	Categ
2	S2DIME	S2DIME:W2 S Diff-Pick up a dime	Categ
3	S3DIME	S3DIME:W3 S Diff-Pick up a dime	Categ
4	S4DIME	S4DIME:W4 S Diff-Pick up a dime	Categ
5	S5DIME	S5DIME:W5 S Diff-Pick up a dime	Categ
6	S6DIME	S6DIME:W6 S Diff-Pick up a dime	Categ
7	S7DIME	S7DIME:W7 S Diff-Pick up a dime	Categ
8	S8DIME	S8DIME:W8 S Diff-Pick up a dime	Categ
9	S9DIME	S9DIME:W9 S Diff-Pick up a dime	Categ
10	S10DIME	S10DIME:W10 S Diff-Pick up a dime	Categ
11	S11DIME	S11DIME:W11 S Diff-Pick up a dime	Categ
12	S12DIME	S12DIME:W12 S Diff-Pick up a dime	Categ
1	R1ARMS	R1ARMS:W1 R Diff-Reach/extnd arms up	Categ
2	R2ARMS	R2ARMS:W2 R Diff-Reach/extnd arms up	Categ
3	R3ARMS	R3ARMS:W3 R Diff-Reach/extnd arms up	Categ
4	R4ARMS	R4ARMS:W4 R Diff-Reach/extnd arms up	Categ
5	R5ARMS	R5ARMS:W5 R Diff-Reach/extnd arms up	Categ
6	R6ARMS	R6ARMS:W6 R Diff-Reach/extnd arms up	Categ
7	R7ARMS	R7ARMS:W7 R Diff-Reach/extnd arms up	Categ
8	R8ARMS	R8ARMS:W8 R Diff-Reach/extnd arms up	Categ
9	R9ARMS	R9ARMS:W9 R Diff-Reach/extnd arms up	Categ
10	R10ARMS	R10ARMS:W10 R Diff-Reach/extnd arms up	Categ
11	R11ARMS	R11ARMS:W11 R Diff-Reach/extnd arms up	Categ
12	R12ARMS	R12ARMS:W12 R Diff-Reach/extnd arms up	Categ
1	S1ARMS	S1ARMS:W1 S Diff-Reach/extnd arms up	Categ
2	S2ARMS	S2ARMS:W2 S Diff-Reach/extnd arms up	Categ
3	S3ARMS	S3ARMS:W3 S Diff-Reach/extnd arms up	Categ
4	S4ARMS	S4ARMS:W4 S Diff-Reach/extnd arms up	Categ
5	S5ARMS	S5ARMS:W5 S Diff-Reach/extnd arms up	Categ
6	S6ARMS	S6ARMS:W6 S Diff-Reach/extnd arms up	Categ
7	S7ARMS	S7ARMS:W7 S Diff-Reach/extnd arms up	Categ
8	S8ARMS	S8ARMS:W8 S Diff-Reach/extnd arms up	Categ
9	S9ARMS	S9ARMS:W9 S Diff-Reach/extnd arms up	Categ

10	S10ARMS	S10ARMS:W10	S	Diff-Reach/extnd	arms up	Categ
11	S11ARMS	S11ARMS:W11	S	Diff-Reach/extnd	arms up	Categ
12	S12ARMS	S12ARMS:W12	S	Diff-Reach/extnd	arms up	Categ
1	R1PUSH	R1PUSH:W1	R	Diff-Push/pull	large obj	Categ
2	R2PUSH	R2PUSH:W2	R	Diff-Push/pull	large obj	Categ
3	R3PUSH	R3PUSH:W3	R	Diff-Push/pull	large obj	Categ
4	R4PUSH	R4PUSH:W4	R	Diff-Push/pull	large obj	Categ
5	R5PUSH	R5PUSH:W5	R	Diff-Push/pull	large obj	Categ
6	R6PUSH	R6PUSH:W6	R	Diff-Push/pull	large obj	Categ
7	R7PUSH	R7PUSH:W7	R	Diff-Push/pull	large obj	Categ
8	R8PUSH	R8PUSH:W8	R	Diff-Push/pull	large obj	Categ
9	R9PUSH	R9PUSH:W9	R	Diff-Push/pull	large obj	Categ
10	R10PUSH	R10PUSH:W10	R	Diff-Push/pull	large obj	Categ
11	R11PUSH	R11PUSH:W11	R	Diff-Push/pull	large obj	Categ
12	R12PUSH	R12PUSH:W12	R	Diff-Push/pull	large obj	Categ
1	S1PUSH	S1PUSH:W1	S	Diff-Push/pull	large obj	Categ
2	S2PUSH	S2PUSH:W2	S	Diff-Push/pull	large obj	Categ
3	S3PUSH	S3PUSH:W3	S	Diff-Push/pull	large obj	Categ
4	S4PUSH	S4PUSH:W4	S	Diff-Push/pull	large obj	Categ
5	S5PUSH	S5PUSH:W5	S	Diff-Push/pull	large obj	Categ
6	S6PUSH	S6PUSH:W6	S	Diff-Push/pull	large obj	Categ
7	S7PUSH	S7PUSH:W7	S	Diff-Push/pull	large obj	Categ
8	S8PUSH	S8PUSH:W8	S	Diff-Push/pull	large obj	Categ
9	S9PUSH	S9PUSH:W9	S	Diff-Push/pull	large obj	Categ
10	S10PUSH	S10PUSH:W10	S	Diff-Push/pull	large obj	Categ
11	S11PUSH	S11PUSH:W11	S	Diff-Push/pull	large obj	Categ
12	S12PUSH	S12PUSH:W12	S	Diff-Push/pull	large obj	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKS	12652	1.55	1.26	1.0	9.0
R2WALKS	18928	0.57	1.32	0.0	9.0
R3WALKS	17949	0.57	1.56	0.0	9.0
R4WALKS	21351	0.52	1.42	0.0	9.0
R5WALKS	19549	0.56	1.52	0.0	9.0
R6WALKS	18155	0.57	1.46	0.0	9.0
R7WALKS	20111	0.56	1.48	0.0	9.0
R8WALKS	18455	0.51	1.27	0.0	9.0
R9WALKS	17202	0.52	1.29	0.0	9.0
R10WALKS	21888	0.39	0.94	0.0	9.0
R11WALKS	20512	0.41	0.95	0.0	9.0
R12WALKS	18710	0.40	0.85	0.0	9.0
S1WALKS	9900	1.50	1.18	1.0	9.0
S2WALKS	12693	0.41	1.07	0.0	9.0
S3WALKS	11902	0.42	1.31	0.0	9.0
S4WALKS	13971	0.38	1.20	0.0	9.0
S5WALKS	12722	0.42	1.27	0.0	9.0
S6WALKS	11634	0.41	1.18	0.0	9.0
S7WALKS	12966	0.41	1.21	0.0	9.0
S8WALKS	11731	0.37	1.02	0.0	9.0
S9WALKS	10642	0.38	1.04	0.0	9.0
S10WALKS	13424	0.29	0.74	0.0	9.0
S11WALKS	12476	0.32	0.80	0.0	9.0
S12WALKS	11017	0.31	0.69	0.0	9.0
R1JOG	12652	3.90	2.56	1.0	9.0
R2JOG	11361	1.66	2.01	0.0	9.0

R3JOG	12591	4.79	4.17	0.0	9.0
R4JOG	15068	4.90	4.16	0.0	9.0
R5JOG	13467	5.17	4.16	0.0	9.0
R6JOG	12062	4.78	4.13	0.0	9.0
R7JOG	13695	4.11	4.09	0.0	9.0
R8JOG	12261	3.63	3.95	0.0	9.0
R9JOG	11316	3.59	3.94	0.0	9.0
R10JOG	14976	1.98	3.14	0.0	9.0
R11JOG	13836	2.05	3.18	0.0	9.0
R12JOG	12325	1.74	2.90	0.0	9.0
S1JOG	9900	3.82	2.53	1.0	9.0
S2JOG	8695	1.65	2.02	0.0	9.0
S3JOG	9056	4.57	4.17	0.0	9.0
S4JOG	10680	4.70	4.17	0.0	9.0
S5JOG	9514	4.97	4.18	0.0	9.0
S6JOG	8470	4.55	4.13	0.0	9.0
S7JOG	9655	3.88	4.05	0.0	9.0
S8JOG	8563	3.39	3.88	0.0	9.0
S9JOG	7747	3.37	3.88	0.0	9.0
S10JOG	9994	1.77	2.95	0.0	9.0
S11JOG	9172	1.84	3.01	0.0	9.0
S12JOG	7976	1.52	2.68	0.0	9.0
R1WALK1	12652	1.23	0.82	1.0	9.0
R2WALK1	11071	0.11	0.42	0.0	4.0
R3WALK1	17949	0.26	1.05	0.0	9.0
R4WALK1	21350	0.24	0.93	0.0	9.0
R5WALK1	19549	0.27	1.04	0.0	9.0
R6WALK1	18152	0.28	0.99	0.0	9.0
R7WALK1	20114	0.28	1.06	0.0	9.0
R8WALK1	18455	0.27	0.95	0.0	9.0
R9WALK1	17203	0.27	0.93	0.0	9.0
R10WALK1	21889	0.21	0.71	0.0	9.0
R11WALK1	20514	0.22	0.72	0.0	9.0
R12WALK1	18714	0.22	0.69	0.0	9.0
S1WALK1	9900	1.20	0.76	1.0	9.0
S2WALK1	8472	0.09	0.39	0.0	4.0
S3WALK1	11903	0.17	0.79	0.0	9.0
S4WALK1	13969	0.16	0.71	0.0	9.0
S5WALK1	12723	0.18	0.81	0.0	9.0
S6WALK1	11635	0.19	0.78	0.0	9.0
S7WALK1	12970	0.18	0.82	0.0	9.0
S8WALK1	11731	0.18	0.71	0.0	9.0
S9WALK1	10642	0.18	0.71	0.0	9.0
S10WALK1	13427	0.14	0.52	0.0	9.0
S11WALK1	12475	0.15	0.57	0.0	9.0
S12WALK1	11016	0.15	0.54	0.0	9.0
R1SIT	12652	1.53	1.03	1.0	9.0
R2SIT	11407	0.29	0.68	0.0	9.0
R3SIT	17950	0.28	0.95	0.0	9.0
R4SIT	21347	0.27	0.95	0.0	9.0
R5SIT	19546	0.27	0.95	0.0	9.0
R6SIT	18151	0.29	0.95	0.0	9.0
R7SIT	20106	0.26	0.84	0.0	9.0
R8SIT	18451	0.26	0.80	0.0	9.0
R9SIT	17203	0.25	0.81	0.0	9.0

R10SIT	21878	0.24	0.69	0.0	9.0
R11SIT	20520	0.25	0.73	0.0	9.0
R12SIT	18717	0.25	0.70	0.0	9.0
S1SIT	9900	1.52	1.01	1.0	9.0
S2SIT	8726	0.27	0.65	0.0	9.0
S3SIT	11903	0.26	0.91	0.0	9.0
S4SIT	13970	0.26	0.91	0.0	9.0
S5SIT	12722	0.25	0.88	0.0	9.0
S6SIT	11635	0.27	0.92	0.0	9.0
S7SIT	12964	0.24	0.80	0.0	9.0
S8SIT	11727	0.23	0.72	0.0	9.0
S9SIT	10643	0.23	0.75	0.0	9.0
S10SIT	13426	0.22	0.65	0.0	9.0
S11SIT	12478	0.22	0.66	0.0	9.0
S12SIT	11016	0.22	0.63	0.0	9.0
R1CHAIR	12652	1.54	0.88	1.0	9.0
R2CHAIR	11412	0.41	0.66	0.0	9.0
R3CHAIR	17948	0.39	0.67	0.0	9.0
R4CHAIR	21352	0.39	0.65	0.0	9.0
R5CHAIR	19547	0.41	0.66	0.0	9.0
R6CHAIR	18149	0.43	0.63	0.0	9.0
R7CHAIR	20105	0.42	0.65	0.0	9.0
R8CHAIR	18452	0.44	0.63	0.0	9.0
R9CHAIR	17203	0.44	0.66	0.0	9.0
R10CHAIR	21876	0.41	0.58	0.0	9.0
R11CHAIR	20503	0.40	0.56	0.0	9.0
R12CHAIR	18700	0.41	0.57	0.0	9.0
S1CHAIR	9900	1.51	0.85	1.0	9.0
S2CHAIR	8732	0.38	0.64	0.0	9.0
S3CHAIR	11901	0.36	0.64	0.0	9.0
S4CHAIR	13970	0.35	0.61	0.0	9.0
S5CHAIR	12721	0.36	0.60	0.0	9.0
S6CHAIR	11632	0.39	0.58	0.0	9.0
S7CHAIR	12964	0.38	0.61	0.0	9.0
S8CHAIR	11726	0.40	0.58	0.0	9.0
S9CHAIR	10641	0.39	0.61	0.0	9.0
S10CHAIR	13419	0.37	0.54	0.0	9.0
S11CHAIR	12466	0.36	0.53	0.0	9.0
S12CHAIR	11006	0.37	0.52	0.0	9.0
R1CLIMS	12652	2.05	1.52	1.0	9.0
R2CLIMS	11385	0.56	1.06	0.0	9.0
R3CLIMS	17944	1.52	2.83	0.0	9.0
R4CLIMS	21333	1.45	2.76	0.0	9.0
R5CLIMS	19531	1.47	2.76	0.0	9.0
R6CLIMS	18141	1.48	2.72	0.0	9.0
R7CLIMS	20075	1.31	2.54	0.0	9.0
R8CLIMS	18423	1.15	2.26	0.0	9.0
R9CLIMS	17186	1.21	2.35	0.0	9.0
R10CLIMS	21835	0.82	1.71	0.0	9.0
R11CLIMS	20496	0.87	1.81	0.0	9.0
R12CLIMS	18685	0.82	1.65	0.0	9.0
S1CLIMS	9900	1.97	1.44	1.0	9.0
S2CLIMS	8717	0.51	1.02	0.0	9.0
S3CLIMS	11898	1.26	2.61	0.0	9.0

S4CLIMS	13960	1.21	2.53	0.0	9.0
S5CLIMS	12712	1.22	2.53	0.0	9.0
S6CLIMS	11628	1.20	2.46	0.0	9.0
S7CLIMS	12946	1.04	2.25	0.0	9.0
S8CLIMS	11715	0.91	1.97	0.0	9.0
S9CLIMS	10635	0.97	2.08	0.0	9.0
S10CLIMS	13401	0.65	1.43	0.0	9.0
S11CLIMS	12466	0.68	1.50	0.0	9.0
S12CLIMS	11000	0.65	1.37	0.0	9.0
R1CLIM1	12652	1.37	0.98	1.0	9.0
R2CLIM1	19257	0.47	1.38	0.0	9.0
R3CLIM1	17946	0.58	1.82	0.0	9.0
R4CLIM1	21344	0.54	1.74	0.0	9.0
R5CLIM1	19540	0.58	1.81	0.0	9.0
R6CLIM1	18147	0.54	1.69	0.0	9.0
R7CLIM1	20094	0.52	1.65	0.0	9.0
R8CLIM1	18446	0.46	1.47	0.0	9.0
R9CLIM1	17198	0.49	1.54	0.0	9.0
R10CLIM1	21866	0.33	1.11	0.0	9.0
R11CLIM1	20512	0.37	1.20	0.0	9.0
R12CLIM1	18701	0.35	1.12	0.0	9.0
S1CLIM1	9900	1.32	0.90	1.0	9.0
S2CLIM1	12921	0.30	1.01	0.0	9.0
S3CLIM1	11899	0.40	1.50	0.0	9.0
S4CLIM1	13966	0.36	1.40	0.0	9.0
S5CLIM1	12717	0.39	1.46	0.0	9.0
S6CLIM1	11632	0.35	1.33	0.0	9.0
S7CLIM1	12962	0.34	1.30	0.0	9.0
S8CLIM1	11725	0.31	1.17	0.0	9.0
S9CLIM1	10639	0.30	1.15	0.0	9.0
S10CLIM1	13423	0.22	0.85	0.0	9.0
S11CLIM1	12470	0.25	0.93	0.0	9.0
S12CLIM1	11010	0.24	0.87	0.0	9.0
R1STOOP	12652	1.78	1.15	1.0	9.0
R2STOOP	11415	0.51	0.77	0.0	9.0
R3STOOP	17945	0.58	1.21	0.0	9.0
R4STOOP	21347	0.60	1.24	0.0	9.0
R5STOOP	19547	0.62	1.27	0.0	9.0
R6STOOP	18147	0.65	1.23	0.0	9.0
R7STOOP	20098	0.66	1.31	0.0	9.0
R8STOOP	18448	0.64	1.14	0.0	9.0
R9STOOP	17200	0.65	1.17	0.0	9.0
R10STOOP	21867	0.55	0.90	0.0	9.0
R11STOOP	20502	0.56	0.98	0.0	9.0
R12STOOP	18691	0.56	0.91	0.0	9.0
S1STOOP	9900	1.73	1.09	1.0	9.0
S2STOOP	8735	0.47	0.74	0.0	9.0
S3STOOP	11900	0.49	1.03	0.0	9.0
S4STOOP	13967	0.51	1.12	0.0	9.0
S5STOOP	12722	0.52	1.09	0.0	9.0
S6STOOP	11633	0.54	1.01	0.0	9.0
S7STOOP	12964	0.55	1.13	0.0	9.0
S8STOOP	11729	0.54	0.96	0.0	9.0
S9STOOP	10641	0.55	0.98	0.0	9.0
S10STOOP	13421	0.48	0.78	0.0	9.0



S11STOOP	12465	0.48	0.80	0.0	9.0
S12STOOP	11003	0.48	0.76	0.0	9.0
R1LIFT	12652	1.53	1.17	1.0	9.0
R2LIFT	19149	0.57	1.41	0.0	9.0
R3LIFT	17949	0.74	2.02	0.0	9.0
R4LIFT	21344	0.67	1.90	0.0	9.0
R5LIFT	19544	0.67	1.91	0.0	9.0
R6LIFT	18151	0.65	1.85	0.0	9.0
R7LIFT	20103	0.61	1.77	0.0	9.0
R8LIFT	18453	0.55	1.59	0.0	9.0
R9LIFT	17200	0.56	1.60	0.0	9.0
R10LIFT	21877	0.43	1.20	0.0	9.0
R11LIFT	20515	0.43	1.23	0.0	9.0
R12LIFT	18710	0.41	1.11	0.0	9.0
S1LIFT	9900	1.46	1.09	1.0	9.0
S2LIFT	12881	0.40	1.11	0.0	9.0
S3LIFT	11902	0.51	1.67	0.0	9.0
S4LIFT	13968	0.47	1.58	0.0	9.0
S5LIFT	12721	0.44	1.50	0.0	9.0
S6LIFT	11634	0.42	1.45	0.0	9.0
S7LIFT	12967	0.40	1.40	0.0	9.0
S8LIFT	11732	0.36	1.23	0.0	9.0
S9LIFT	10642	0.36	1.23	0.0	9.0
S10LIFT	13422	0.29	0.92	0.0	9.0
S11LIFT	12474	0.29	0.93	0.0	9.0
S12LIFT	11014	0.28	0.84	0.0	9.0
R1DIME	12652	1.11	0.47	1.0	9.0
R2DIME	19576	0.09	0.47	0.0	9.0
R3DIME	17948	0.10	0.51	0.0	9.0
R4DIME	21337	0.10	0.54	0.0	9.0
R5DIME	19535	0.10	0.55	0.0	9.0
R6DIME	18140	0.10	0.51	0.0	9.0
R7DIME	20087	0.10	0.52	0.0	9.0
R8DIME	18439	0.10	0.45	0.0	9.0
R9DIME	17187	0.10	0.47	0.0	9.0
R10DIME	21864	0.09	0.41	0.0	9.0
R11DIME	20518	0.09	0.41	0.0	9.0
R12DIME	18710	0.09	0.37	0.0	9.0
S1DIME	9900	1.09	0.44	1.0	9.0
S2DIME	13056	0.07	0.37	0.0	9.0
S3DIME	11902	0.08	0.47	0.0	9.0
S4DIME	13965	0.08	0.46	0.0	9.0
S5DIME	12719	0.08	0.46	0.0	9.0
S6DIME	11630	0.07	0.42	0.0	9.0
S7DIME	12961	0.07	0.43	0.0	9.0
S8DIME	11728	0.07	0.34	0.0	9.0
S9DIME	10640	0.07	0.37	0.0	9.0
S10DIME	13418	0.07	0.36	0.0	9.0
S11DIME	12480	0.07	0.37	0.0	9.0
S12DIME	11013	0.07	0.28	0.0	9.0
R1ARMS	12652	1.20	0.65	1.0	9.0
R2ARMS	11411	0.17	0.49	0.0	4.0
R3ARMS	17949	0.23	0.78	0.0	9.0
R4ARMS	21343	0.21	0.75	0.0	9.0

R5ARMS	19538	0.21	0.71	0.0	9.0
R6ARMS	18145	0.22	0.72	0.0	9.0
R7ARMS	20100	0.21	0.70	0.0	9.0
R8ARMS	18449	0.22	0.69	0.0	9.0
R9ARMS	17199	0.21	0.64	0.0	9.0
R10ARMS	21876	0.21	0.56	0.0	9.0
R11ARMS	20523	0.20	0.57	0.0	9.0
R12ARMS	18706	0.21	0.54	0.0	9.0
S1ARMS	9900	1.18	0.61	1.0	9.0
S2ARMS	8735	0.15	0.46	0.0	4.0
S3ARMS	11901	0.19	0.68	0.0	9.0
S4ARMS	13966	0.17	0.62	0.0	9.0
S5ARMS	12716	0.17	0.60	0.0	9.0
S6ARMS	11633	0.17	0.61	0.0	9.0
S7ARMS	12964	0.17	0.59	0.0	9.0
S8ARMS	11729	0.17	0.56	0.0	9.0
S9ARMS	10641	0.17	0.57	0.0	9.0
S10ARMS	13421	0.16	0.47	0.0	9.0
S11ARMS	12476	0.16	0.50	0.0	9.0
S12ARMS	11013	0.17	0.46	0.0	9.0
R1PUSH	12652	1.55	1.22	1.0	9.0
R2PUSH	19220	0.73	1.69	0.0	9.0
R3PUSH	17947	1.06	2.50	0.0	9.0
R4PUSH	21345	0.98	2.40	0.0	9.0
R5PUSH	19541	0.97	2.39	0.0	9.0
R6PUSH	18150	0.95	2.33	0.0	9.0
R7PUSH	20098	0.83	2.15	0.0	9.0
R8PUSH	18445	0.74	1.94	0.0	9.0
R9PUSH	17198	0.75	1.98	0.0	9.0
R10PUSH	21878	0.52	1.41	0.0	9.0
R11PUSH	20515	0.54	1.46	0.0	9.0
R12PUSH	18708	0.47	1.23	0.0	9.0
S1PUSH	9900	1.49	1.14	1.0	9.0
S2PUSH	12911	0.52	1.37	0.0	9.0
S3PUSH	11902	0.81	2.20	0.0	9.0
S4PUSH	13967	0.75	2.11	0.0	9.0
S5PUSH	12720	0.70	2.02	0.0	9.0
S6PUSH	11630	0.67	1.97	0.0	9.0
S7PUSH	12961	0.59	1.80	0.0	9.0
S8PUSH	11727	0.52	1.59	0.0	9.0
S9PUSH	10639	0.49	1.56	0.0	9.0
S10PUSH	13425	0.37	1.13	0.0	9.0
S11PUSH	12473	0.38	1.16	0.0	9.0
S12PUSH	11010	0.33	0.96	0.0	9.0

## Categorical Variable Codes

Value	R1WALKS
1.Not at all diff	9441
2.A little diff	1320
3.Somewhat diff	886
4.Very diff/can't do	824
9.Don't do	181

Value	R2WALKS
.D=DK/NA	340
.M=Oth missing	373
.R=RF	1
0.No	14211
1.Yes,a little	1600
2.Yes,a lot	2079
3.Yes,DK/NA how much	498
4.Yes,RF how much	2
5.Can't do	338
9.Don't do	200

Value	R3WALKS	R4WALKS	R5WALKS	R6WALKS	R7WALKS
.D=DK/NA	4	3	4	3	5
.M=Oth missing	1				
.R=RF	2				4
.S=Skip	35	25	23	7	9
0.No	12593	15073	13471	12070	13706
1.Yes	4215	5103	4964	5030	5280
2.Can't do	609	668	572	593	599
9.Don't do	532	507	542	462	526

Value	R8WALKS	R9WALKS	R10WALKS	R11WALKS	R12WALKS
.D=DK/NA	4	7	11	19	21
.R=RF	3	1	7	5	1
.S=Skip	7	7	128	18	15
0.No	12268	11330	15016	13860	12354
1.Yes	5376	5100	6440	6250	6096
2.Can't do	475	449	244	222	140
9.Don't do	336	323	188	180	120

Value	S1WALKS
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	7551
2.A little diff	1004
3.Somewhat diff	640
4.Very diff/can't do	590
9.Don't do	115

Value	S2WALKS
.D=DK/NA	260
.M=Oth missing	134
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	10170
1.Yes,a little	916
2.Yes,a lot	1193
3.Yes,DK/NA how much	220
4.Yes,RF how much	1
5.Can't do	120
9.Don't do	73

Value	S3WALKS	S4WALKS	S5WALKS	S6WALKS	S7WALKS
.D=DK/NA	1		2	2	3
.M=Oth missing	1				
.R=RF	1	1	1		2
.S=Skip	10	6	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	9058	10682	9515	8476	9662
1.Yes	2357	2789	2752	2758	2866
2.Can't do	252	275	218	222	222
9.Don't do	235	225	237	178	216

Value	S8WALKS	S9WALKS	S10WALKS	S11WALKS	S12WALKS
.D=DK/NA	1	3	8	7	6
.R=RF	2	1	4	1	1
.S=Skip	1		77	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8567	7756	10021	9187	7994
1.Yes	2854	2624	3267	3135	2938
2.Can't do	183	141	76	84	45
9.Don't do	127	121	60	70	40

Value	R1JOG
1.Not at all diff	1854
2.A little diff	2230
3.Somewhat diff	2330
4.Very diff/can't do	4027
9.Don't do	2211

Value	R2JOG
.D=DK/NA	55
.Q=Not asked this wv	8222
.R=RF	4
0.No	3200
1.Yes,a little	2123
2.Yes,a lot	5302
3.Yes,DK/NA how much	68
4.Yes,RF how much	10
9.Don't do	658

Value	R3JOG	R4JOG	R5JOG	R6JOG	R7JOG
.D=DK/NA	2	4	4	8	10
.R=RF					1
.S=Skip	5398	6312	6108	6095	6423
0.No	2675	3119	2618	2138	3054
1.Yes	2813	3169	2738	3157	4047
2.Can't do	925	1196	866	911	1011
9.Don't do	6178	7584	7245	5856	5583

Value	R8JOG	R9JOG	R10JOG	R11JOG	R12JOG
.D=DK/NA	6	14	36	23	25
.R=RF	1		3	1	4
.S=Skip	6201	5887	7019	6694	6393
0.No	2841	2661	5563	5014	4684
1.Yes	4068	3810	6124	5689	5320
2.Can't do	1103	965	859	794	683
9.Don't do	4249	3880	2430	2339	1638

Value	S1JOG
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	1495
2.A little diff	1810
3.Somewhat diff	1902
4.Very diff/can't do	3053
9.Don't do	1640

Value	S2JOG
.D=DK/NA	40
.Q=Not asked this wv	4549
.R=RF	4
.U=Unmarried	5970
.V=Spouse NR	384
0.No	2491
1.Yes,a little	1684
2.Yes,a lot	3958
3.Yes,DK/NA how much	50
4.Yes,RF how much	7
9.Don't do	505

Value	S3JOG	S4JOG	S5JOG	S6JOG	S7JOG
.D=DK/NA	2	1	1	6	6
.R=RF					1
.S=Skip	2857	3297	3215	3163	3310
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	2058	2359	1988	1640	2304
1.Yes	2187	2415	2063	2365	2991
2.Can't do	590	768	568	574	685
9.Don't do	4221	5138	4895	3891	3675

Value	S8JOG	S9JOG	S10JOG	S11JOG	S12JOG
.D=DK/NA	4	9	24	14	18
.R=RF			2	1	
.S=Skip	3168	2890	3493	3301	3033
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	2132	1945	3904	3507	3232
1.Yes	2989	2714	4164	3870	3463
2.Can't do	703	628	542	454	408
9.Don't do	2739	2460	1384	1341	873

Value	R1WALK1
1.Not at all diff	11271
2.A little diff	605
3.Somewhat diff	396
4.Very diff/can't do	314
9.Don't do	66

Value	R2WALK1
.D=DK/NA	347
.Q=Not asked this wv	8222
.R=RF	2
0.No	10332
1.Yes,a little	294
2.Yes,a lot	441
4.Yes,RF how much	4

Value	R3WALK1	R4WALK1	R5WALK1	R6WALK1	R7WALK1
.D=DK/NA	4	4	4	6	3
.M=Oth missing	1				
.R=RF	2	5	3		3
.S=Skip	35	25	23	7	9
0.No	15368	18287	16477	15041	16875
1.Yes	1969	2401	2433	2517	2588
2.Can't do	398	472	413	407	404
9.Don't do	214	190	226	187	247

Value	R8WALK1	R9WALK1	R10WALK1	R11WALK1	R12WALK1
.D=DK/NA	4	5	10	18	16
.R=RF	3	1	7	4	2
.S=Skip	7	8	128	18	15
0.No	15257	14119	18347	16987	15403
1.Yes	2659	2593	3242	3256	3117
2.Can't do	367	341	201	177	119
9.Don't do	172	150	99	94	75

Value	S1WALK1
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	8949
2.A little diff	420
3.Somewhat diff	273
4.Very diff/can't do	218
9.Don't do	40

Value	S2WALK1
.D=DK/NA	265
.Q=Not asked this wv	4549
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	384
0.No	7987
1.Yes,a little	210
2.Yes,a lot	272
4.Yes,RF how much	3

Value	S3WALK1	S4WALK1	S5WALK1	S6WALK1	S7WALK1
.D=DK/NA	1	2	1	1	
.R=RF	1	1	1		1
.S=Skip	10	6	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10658	12499	11245	10166	11470
1.Yes	1008	1217	1235	1250	1270
2.Can't do	161	187	157	149	140
9.Don't do	76	66	86	70	90

Value	S8WALK1	S9WALK1	S10WALK1	S11WALK1	S12WALK1
.D=DK/NA	1	2	5	9	7
.R=RF	2	1	4		1
.S=Skip	1	1	77	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10237	9269	11854	10880	9545
1.Yes	1305	1214	1483	1502	1408
2.Can't do	135	109	63	61	39
9.Don't do	54	50	27	32	24



Value	R1SIT
1.Not at all diff	8943
2.A little diff	1763
3.Somewhat diff	1169
4.Very diff/can't do	711
9.Don't do	66

Value	R2SIT
.D=DK/NA	12
.Q=Not asked this wv	8222
.R=RF	1
0.No	9166
1.Yes,a little	1324
2.Yes,a lot	895
3.Yes,DK/NA how much	4
4.Yes,RF how much	2
9.Don't do	16

Value	R3SIT	R4SIT	R5SIT	R6SIT	R7SIT
.D=DK/NA	4	6	7	7	7
.R=RF	2	5	3		6
.S=Skip	35	26	23	7	10
0.No	14486	17275	15790	14405	16112
1.Yes	3169	3751	3468	3498	3756
2.Can't do	123	113	99	75	96
9.Don't do	172	208	189	173	142

Value	R8SIT	R9SIT	R10SIT	R11SIT	R12SIT
.D=DK/NA	8	5	18	13	9
.R=RF	3	1	9	3	5
.S=Skip	7	8	129	18	16
0.No	14718	13786	17349	16186	14699
1.Yes	3517	3224	4376	4174	3879
2.Can't do	105	84	64	63	62
9.Don't do	111	109	89	97	77

Value	S1SIT
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	7049
2.A little diff	1396
3.Somewhat diff	901
4.Very diff/can't do	506
9.Don't do	48

Value	S2SIT
.D=DK/NA	12
.Q=Not asked this wv	4549
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	384
0.No	7110
1.Yes,a little	999
2.Yes,a lot	601
3.Yes,DK/NA how much	3
4.Yes,RF how much	2
9.Don't do	11

Value	S3SIT	S4SIT	S5SIT	S6SIT	S7SIT
.D=DK/NA	1		2	1	4
.R=RF	1	1	1		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	9700	11450	10457	9372	10519
1.Yes	2032	2335	2120	2132	2313
2.Can't do	67	62	43	28	52
9.Don't do	104	123	102	103	80

Value	S8SIT	S9SIT	S10SIT	S11SIT	S12SIT
.D=DK/NA	5	1	5	6	6
.R=RF	2	1	4		2
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9527	8704	10873	10095	8899
1.Yes	2092	1856	2477	2304	2054
2.Can't do	54	27	31	34	29
9.Don't do	54	56	45	45	34

Value	R1CHAIR
1.Not at all diff	8152
2.A little diff	2768
3.Somewhat diff	1234
4.Very diff/can't do	472
9.Don't do	26

Value	R2CHAIR
.D=DK/NA	7
.Q=Not asked this wv	8222
.R=RF	1
0.No	7742
1.Yes,a little	2704
2.Yes,a lot	953
3.Yes,DK/NA how much	4
4.Yes,RF how much	6
9.Don't do	3

Value	R3CHAIR	R4CHAIR	R5CHAIR	R6CHAIR	R7CHAIR
.D=DK/NA	4	1	6	9	9
.M=Oth missing	1				
.R=RF	3	5	3		5
.S=Skip	35	26	23	7	10
0.No	11414	13524	12143	10715	12243
1.Yes	6327	7602	7201	7246	7657
2.Can't do	158	177	153	154	161
9.Don't do	49	49	50	34	44

Value	R8CHAIR	R9CHAIR	R10CHAIR	R11CHAIR	R12CHAIR
.D=DK/NA	7	4	19	31	25
.R=RF	3	2	10	2	6
.S=Skip	7	8	129	18	16
0.No	10707	10043	13238	12466	11179
1.Yes	7547	6987	8532	7936	7449
2.Can't do	164	133	79	81	53
9.Don't do	34	40	27	20	19

Value	S1CHAIR
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	6476
2.A little diff	2188
3.Somewhat diff	902
4.Very diff/can't do	317
9.Don't do	17

Value	S2CHAIR
.D=DK/NA	6
.Q=Not asked this wv	4549
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	384
0.No	6060
1.Yes,a little	2045
2.Yes,a lot	618
3.Yes,DK/NA how much	2
4.Yes,RF how much	4
9.Don't do	3

Value	S3CHAIR	S4CHAIR	S5CHAIR	S6CHAIR	S7CHAIR
.D=DK/NA	1		3	4	4
.M=Oth missing	1				
.R=RF	2	1	1		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	7954	9309	8321	7254	8269
1.Yes	3844	4563	4323	4307	4608
2.Can't do	76	73	56	56	64
9.Don't do	27	25	21	15	23

Value	S8CHAIR	S9CHAIR	S10CHAIR	S11CHAIR	S12CHAIR
.D=DK/NA	6	2	12	18	14
.R=RF	2	2	4		4
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	7240	6622	8569	8043	7015
1.Yes	4412	3964	4814	4382	3966
2.Can't do	60	37	25	34	20
9.Don't do	14	18	11	7	5

Value	R1CLIMS
1.Not at all diff	6369
2.A little diff	2793
3.Somewhat diff	1506
4.Very diff/can't do	1684
9.Don't do	300

Value	R2CLIMS
.D=DK/NA	34
.Q=Not asked this wv	8222
.R=RF	1
0.No	7507
1.Yes,a little	1991
2.Yes,a lot	1795
3.Yes,DK/NA how much	2
4.Yes,RF how much	1
9.Don't do	89

Value	R3CLIMS	R4CLIMS	R5CLIMS	R6CLIMS	R7CLIMS
.D=DK/NA	9	19	22	17	39
.R=RF	3	6	3		5
.S=Skip	35	26	23	7	10
0.No	9101	10957	9791	8524	9966
1.Yes	5540	6654	6370	6485	7007
2.Can't do	1143	1303	1142	1123	1227
9.Don't do	2160	2419	2228	2009	1875

Value	R8CLIMS	R9CLIMS	R10CLIMS	R11CLIMS	R12CLIMS
.D=DK/NA	34	22	60	38	41
.R=RF	5	1	10	2	5
.S=Skip	7	8	129	18	16
0.No	8808	8177	11269	10429	9181
1.Yes	7195	6684	8940	8389	8209
2.Can't do	1102	967	801	803	641
9.Don't do	1318	1358	825	875	654

Value	S1CLIMS
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	5188
2.A little diff	2193
3.Somewhat diff	1169
4.Very diff/can't do	1152
9.Don't do	198

Value	S2CLIMS
.D=DK/NA	21
.Q=Not asked this wv	4549
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	384
0.No	5965
1.Yes,a little	1466
2.Yes,a lot	1224
4.Yes,RF how much	1
9.Don't do	61

Value	S3CLIMS	S4CLIMS	S5CLIMS	S6CLIMS	S7CLIMS
.D=DK/NA	5	10	12	8	22
.R=RF	2	1	1		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	6697	7957	7081	6189	7230
1.Yes	3525	4122	3948	3936	4263
2.Can't do	510	604	520	499	549
9.Don't do	1166	1277	1163	1004	904

Value	S8CLIMS	S9CLIMS	S10CLIMS	S11CLIMS	S12CLIMS
.D=DK/NA	16	9	29	18	21
.R=RF	3	1	5		3
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	6360	5744	7688	7082	6100
1.Yes	4286	3900	5065	4702	4392
2.Can't do	464	364	317	339	263
9.Don't do	605	627	331	343	245

Value	R1CLIM1
1.Not at all diff	10323
2.A little diff	1066
3.Somewhat diff	649
4.Very diff/can't do	527
9.Don't do	87

Value	R2CLIM1
.D=DK/NA	94
.M=Oth missing	290
.R=RF	1
0.No	15709
1.Yes,a little	1348
2.Yes,a lot	1155
3.Yes,DK/NA how much	493
5.Can't do	256
9.Don't do	296

Value	R3CLIM1	R4CLIM1	R5CLIM1	R6CLIM1	R7CLIM1
.D=DK/NA	6	8	13	11	20
.R=RF	4	6	3		5
.S=Skip	35	26	23	7	10
0.No	14272	17032	15323	14161	15756
1.Yes	2248	2727	2704	2657	2917
2.Can't do	680	783	708	690	750
9.Don't do	746	802	805	639	671

Value	R8CLIM1	R9CLIM1	R10CLIM1	R11CLIM1	R12CLIM1
.D=DK/NA	14	10	32	21	27
.R=RF	2	1	7	3	3
.S=Skip	7	8	129	18	16
0.No	14350	13348	17390	16095	14607
1.Yes	2937	2747	3732	3624	3495
2.Can't do	687	615	452	465	340
9.Don't do	472	488	292	328	259

Value	S1CLIM1
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	8259
2.A little diff	784
3.Somewhat diff	460
4.Very diff/can't do	345
9.Don't do	52

Value	S2CLIM1
.D=DK/NA	66
.M=Oth missing	100
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	584
0.No	11144
1.Yes,a little	779
2.Yes,a lot	615
3.Yes,DK/NA how much	217
5.Can't do	79
9.Don't do	87

Value	S3CLIM1	S4CLIM1	S5CLIM1	S6CLIM1	S7CLIM1
.D=DK/NA	3	4	7	4	6
.R=RF	3	1	1		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10066	11833	10653	9758	10894
1.Yes	1226	1471	1455	1375	1520
2.Can't do	281	334	282	256	292
9.Don't do	326	328	327	243	256

Value	S8CLIM1	S9CLIM1	S10CLIM1	S11CLIM1	S12CLIM1
.D=DK/NA	7	5	9	13	11
.R=RF	2	1	3	1	3
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9788	8922	11376	10450	9184
1.Yes	1491	1364	1797	1740	1622
2.Can't do	265	193	151	168	120
9.Don't do	181	160	99	112	84



Value	R1STOOP
1.Not at all diff	7258
2.A little diff	2623
3.Somewhat diff	1414
4.Very diff/can't do	1284
9.Don't do	73

Value	R2STOOP
.D=DK/NA	4
.Q=Not asked this wv	8222
.R=RF	1
0.No	7429
1.Yes,a little	2248
2.Yes,a lot	1721
3.Yes,DK/NA how much	6
4.Yes,RF how much	7
9.Don't do	4

Value	R3STOOP	R4STOOP	R5STOOP	R6STOOP	R7STOOP
.D=DK/NA	7	5	5	11	16
.R=RF	4	6	4		5
.S=Skip	35	26	23	7	10
0.No	10503	12436	11054	9602	10836
1.Yes	6358	7618	7372	7459	7989
2.Can't do	804	932	767	786	880
9.Don't do	280	361	354	300	393

Value	R8STOOP	R9STOOP	R10STOOP	R11STOOP	R12STOOP
.D=DK/NA	11	8	26	30	37
.R=RF	3	1	10	4	3
.S=Skip	7	8	131	18	16
0.No	9439	8713	11629	10944	9685
1.Yes	7962	7577	9491	8869	8461
2.Can't do	797	653	592	499	407
9.Don't do	250	257	155	190	138

Value	S1STOOP
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	5832
2.A little diff	2077
3.Somewhat diff	1077
4.Very diff/can't do	871
9.Don't do	43

Value	S2STOOP
.D=DK/NA	3
.Q=Not asked this wv	4549
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	384
0.No	5858
1.Yes,a little	1701
2.Yes,a lot	1163
3.Yes,DK/NA how much	4
4.Yes,RF how much	6
9.Don't do	3

Value	S3STOOP	S4STOOP	S5STOOP	S6STOOP	S7STOOP
.D=DK/NA	2	3	1	3	4
.R=RF	3	1	2		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	7439	8693	7669	6646	7561
1.Yes	3960	4692	4564	4549	4866
2.Can't do	376	399	333	321	361
9.Don't do	125	183	156	117	176

Value	S8STOOP	S9STOOP	S10STOOP	S11STOOP	S12STOOP
.D=DK/NA	3	3	9	17	20
.R=RF	2	1	4	2	1
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	6521	5861	7689	7189	6211
1.Yes	4767	4436	5441	4994	4574
2.Can't do	341	247	230	220	172
9.Don't do	100	97	61	62	46

Value	R1LIFT
1.Not at all diff	9451
2.A little diff	1363
3.Somewhat diff	823
4.Very diff/can't do	886
9.Don't do	129

Value	R2LIFT
.D=DK/NA	10
.M=Oth missing	481
.R=RF	2
0.No	14504
1.Yes,a little	1873
2.Yes,a lot	1958
3.Yes,DK/NA how much	9
4.Yes,RF how much	4
5.Can't do	548
9.Don't do	253

Value	R3LIFT	R4LIFT	R5LIFT	R6LIFT	R7LIFT
.D=DK/NA	3	6	7	7	12
.R=RF	4	7	5		4
.S=Skip	35	27	23	7	10
0.No	13089	15686	14321	13257	14844
1.Yes	3187	3860	3705	3492	3810
2.Can't do	721	814	607	615	662
9.Don't do	952	984	911	787	787

Value	R8LIFT	R9LIFT	R10LIFT	R11LIFT	R12LIFT
.D=DK/NA	7	7	17	17	18
.R=RF	2	1	9	4	3
.S=Skip	7	9	131	18	16
0.No	13476	12449	15811	14819	13288
1.Yes	3840	3701	5288	4984	4871
2.Can't do	571	509	423	363	302
9.Don't do	566	541	355	349	249

Value	S1LIFT
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	7633
2.A little diff	1010
3.Somewhat diff	600
4.Very diff/can't do	574
9.Don't do	83

Value	S2LIFT
.D=DK/NA	7
.M=Oth missing	198
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	584
0.No	10406
1.Yes,a little	1102
2.Yes,a lot	1056
3.Yes,DK/NA how much	6
4.Yes,RF how much	3
5.Can't do	222
9.Don't do	86

Value	S3LIFT	S4LIFT	S5LIFT	S6LIFT	S7LIFT
.D=DK/NA		2	1	2	2
.R=RF	3	1	3		2
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	9406	11123	10167	9352	10431
1.Yes	1779	2066	1939	1748	1968
2.Can't do	304	353	266	239	264
9.Don't do	413	426	349	295	304

Value	S8LIFT	S9LIFT	S10LIFT	S11LIFT	S12LIFT
.D=DK/NA	1	1	8	8	7
.R=RF	1	1	4	2	3
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9388	8501	10572	9868	8645
1.Yes	1925	1797	2579	2365	2198
2.Can't do	215	157	157	132	97
9.Don't do	204	187	114	109	74

Value	R1DIME
1.Not at all diff	11836
2.A little diff	455
3.Somewhat diff	246
4.Very diff/can't do	106
9.Don't do	9

Value	R2DIME
.D=DK/NA	11
.M=Oth missing	53
.R=RF	2
0.No	18373
1.Yes,a little	757
2.Yes,a lot	408
3.Yes,DK/NA how much	1
4.Yes,RF how much	1
5.Can't do	16
9.Don't do	20

Value	R3DIME	R4DIME	R5DIME	R6DIME	R7DIME
.D=DK/NA	5	13	17	18	28
.R=RF	3	6	4		4
.S=Skip	35	28	23	7	10
0.No	16590	19782	18045	16764	18610
1.Yes	1216	1372	1319	1230	1334
2.Can't do	103	128	118	105	96
9.Don't do	39	55	53	41	47

Value	R8DIME	R9DIME	R10DIME	R11DIME	R12DIME
.D=DK/NA	21	20	31	17	20
.R=RF	2	1	8	1	1
.S=Skip	7	9	131	18	16
0.No	16952	15751	20187	18888	17084
1.Yes	1358	1318	1585	1530	1573
2.Can't do	103	89	67	78	41
9.Don't do	26	29	25	22	12

Value	S1DIME
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	9330
2.A little diff	337
3.Somewhat diff	152
4.Very diff/can't do	75
9.Don't do	6

Value	S2DIME
.D=DK/NA	5
.M=Oth missing	25
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	584
0.No	12418
1.Yes,a little	420
2.Yes,a lot	204
3.Yes,DK/NA how much	1
4.Yes,RF how much	1
5.Can't do	6
9.Don't do	6

Value	S3DIME	S4DIME	S5DIME	S6DIME	S7DIME
.D=DK/NA	1	5	4	6	8
.R=RF	2	1	2		2
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	11170	13178	11950	10965	12240
1.Yes	666	707	704	607	666
2.Can't do	43	54	41	42	34
9.Don't do	23	26	24	16	21

Value	S8DIME	S9DIME	S10DIME	S11DIME	S12DIME
.D=DK/NA	5	3	13	4	10
.R=RF	1	1	3		1
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10985	9977	12611	11716	10261
1.Yes	696	624	772	725	730
2.Can't do	40	30	24	28	21
9.Don't do	7	9	11	11	1

Value	R1ARMS
1.Not at all diff	11126
2.A little diff	831
3.Somewhat diff	412
4.Very diff/can't do	267
9.Don't do	16

Value	R2ARMS
.D=DK/NA	8
.Q=Not asked this wv	8222
.R=RF	1
0.No	9972
1.Yes,a little	892
2.Yes,a lot	543
3.Yes,DK/NA how much	1
4.Yes,RF how much	3

Value	R3ARMS	R4ARMS	R5ARMS	R6ARMS	R7ARMS
.D=DK/NA	4	8	13	13	14
.R=RF	3	6	5		5
.S=Skip	35	27	23	7	10
0.No	14909	17856	16341	15024	16761
1.Yes	2738	3158	2938	2879	3067
2.Can't do	201	220	173	160	186
9.Don't do	101	109	86	82	86

Value	R8ARMS	R9ARMS	R10ARMS	R11ARMS	R12ARMS
.D=DK/NA	10	9	17	12	21
.R=RF	3	1	10	1	4
.S=Skip	7	8	131	18	16
0.No	15218	14211	17822	16778	15041
1.Yes	2993	2794	3892	3593	3561
2.Can't do	164	139	119	109	73
9.Don't do	74	55	43	43	31

Value	S1ARMS
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	8838
2.A little diff	588
3.Somewhat diff	290
4.Very diff/can't do	174
9.Don't do	10

Value	S2ARMS
.D=DK/NA	3
.Q=Not asked this wv	4549
.R=RF	1
.U=Unmarried	5970
.V=Spouse NR	384
0.No	7769
1.Yes,a little	622
2.Yes,a lot	341
3.Yes,DK/NA how much	1
4.Yes,RF how much	2

Value	S3ARMS	S4ARMS	S5ARMS	S6ARMS	S7ARMS
.D=DK/NA	2	4	6	3	4
.R=RF	2	1	3		3
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	10177	12051	10971	9950	11132
1.Yes	1589	1771	1633	1584	1719
2.Can't do	85	99	76	64	77
9.Don't do	50	45	36	35	36

Value	S8ARMS	S9ARMS	S10ARMS	S11ARMS	S12ARMS
.D=DK/NA	4	3	9	8	10
.R=RF	1	1	4		1
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10010	9146	11378	10617	9245
1.Yes	1632	1417	1987	1797	1729
2.Can't do	61	51	41	43	29
9.Don't do	26	27	15	19	10



Value	R1PUSH
1.Not at all diff	9303
2.A little diff	1577
3.Somewhat diff	766
4.Very diff/can't do	843
9.Don't do	163

Value	R2PUSH
.D=DK/NA	9
.M=Oth missing	410
.R=RF	3
0.No	14115
1.Yes,a little	1758
2.Yes,a lot	1786
3.Yes,DK/NA how much	493
4.Yes,RF how much	10
5.Can't do	609
9.Don't do	449

Value	R3PUSH	R4PUSH	R5PUSH	R6PUSH	R7PUSH
.D=DK/NA	4	6	10	8	15
.M=Oth missing	1				
.R=RF	4	6	5		6
.S=Skip	35	27	23	7	10
0.No	12225	14799	13547	12373	14065
1.Yes	3302	3918	3713	3701	4021
2.Can't do	864	951	758	744	785
9.Don't do	1556	1677	1523	1332	1227

Value	R8PUSH	R9PUSH	R10PUSH	R11PUSH	R12PUSH
.D=DK/NA	15	10	16	17	19
.R=RF	2	1	9	4	4
.S=Skip	7	8	131	18	16
0.No	12620	11889	15174	14181	12813
1.Yes	4254	3859	5698	5367	5231
2.Can't do	679	573	489	441	346
9.Don't do	892	877	517	526	318

Value	S1PUSH
.U=Unmarried	2373
.V=Spouse NR	379
1.Not at all diff	7471
2.A little diff	1225
3.Somewhat diff	551
4.Very diff/can't do	547
9.Don't do	106

Value	S2PUSH
.D=DK/NA	6
.M=Oth missing	169
.R=RF	2
.U=Unmarried	5970
.V=Spouse NR	584
0.No	10098
1.Yes,a little	1118
2.Yes,a lot	1042
3.Yes,DK/NA how much	216
4.Yes,RF how much	7
5.Can't do	259
9.Don't do	171

Value	S3PUSH	S4PUSH	S5PUSH	S6PUSH	S7PUSH
.D=DK/NA		3	2	6	6
.R=RF	3	1	3		4
.S=Skip	10	7	5	3	1
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	8757	10456	9578	8764	9887
1.Yes	1999	2264	2127	1987	2208
2.Can't do	381	429	340	299	335
9.Don't do	765	818	675	580	531

Value	S8PUSH	S9PUSH	S10PUSH	S11PUSH	S12PUSH
.D=DK/NA	6	5	5	10	12
.R=RF	1	1	4	1	2
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8805	8123	10129	9393	8265
1.Yes	2293	1987	2915	2718	2525
2.Can't do	264	213	190	176	117
9.Don't do	365	316	191	186	103

## How Constructed

These variables recode raw variables for difficulty with activities besides activities of daily living (ADLs) and instrumental activities of daily living (IADLs) as they appear in the raw data, except for missing values, and accounting for skip patterns. The activities described here include walking several blocks (RwWALKS), jogging one mile (RwJOG), walking one block (RwWALK1), sitting for about 2 hours (RwSIT), getting up from a chair after sitting for long periods (RwCHAIR), climbing several flights of stairs without resting (RwCLIMS), climbing one flight of stairs without resting (RwCLIM1), lifting or carrying weights over 10 pounds (RwLIFT), stooping kneeling, or crouching (RwSTOOP), reaching arms above shoulder level (RwARMS), pushing or pulling large objects (RwPUSH), and picking up a dime from the table (RwDIME). These variables are referred to as Rw[func] in the descriptions below.

Note that RwJOG, RwWALK1, RwCLIMS, RwSIT, RwCHAIR, RwSTOOP, and RwARMS are not asked in Wave 2A. These variables are set to .Q in Wave 2 for AHEAD Respondents.

The recodes vary across waves because the question and responses can vary across waves. In Wave 1, the HRS imputations are left in place. In all other waves "don't know" is recoded to special missing code .D and "refused" is recoded to .R. In Wave 1 "difficulty with an activity" is rated on a 4-point scale from "no difficulty" to "very difficult/can't do." These are assigned without change. A "don't do" answer is recoded to "9."

In Wave 2, the question asks if the Respondent has any difficulty with an activity and if so, asks follow-up questions about the degree of difficulty. In Wave 2H, the raw variable codes both questions as one categorical variable. In Wave 2A the answer to the first question and a categorical variable for the follow-up are given. In either case, a "no" answer to the first question about any difficulty is recoded to "0," and the categorical levels of difficulty are recoded appropriately to "a little" and "a lot," or "don't know/refused how much." In Wave 2A, if the Respondent says "don't do" to the first question about difficulty, s/he is asked if this is because of a health problem, and if so, "don't do" is changed to "can't do." In Wave 2A, "can't do" is recoded to "5." In Wave 2H, the "can't do" is not allowed. A "don't do" response is coded as "9."

From Wave 3 forward, the answers are simply "yes" for difficulty and "no" if not, which are coded "1" and "0," respectively. A "can't do" response is recoded to "2" and a "don't do" response is recoded to "9."

In some waves, questions about activities are skipped based on answers to previous questions. In Waves 1 and 2H, if a Respondent reports no difficulty jogging a mile, then the questions about walking several blocks and walking one block are skipped. In these cases RwWALKS and RwWALK1 are set to "0" for "no difficulty." In Wave 2A if the Respondent reports needing help in getting across a room, then the questions about walking several blocks, climbing one flight of stairs, and pushing large objects are skipped. In these cases difficulty is assumed for the skipped activities, and R2WALKS, R2CLIM1, and R2PUSH are set to "3, difficulty," but how much is not ascertained.

From Wave 3 forward, if the Respondent reports no difficulty walking several blocks, the question about walking one block is skipped, and RwWALK1 is set to "0" for "no difficulty." In all waves except 2A, if the Respondent said no difficulty to climbing several flights of stairs, the question about climbing one flight of stairs is skipped, and RwCLIM1 is set to "0" for no difficulty.

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

There are other versions of the Rw[func] variables that recode to a yes/no measure for use in creating indices. One version of this variable is derived that attempts to code a consistent cross-wave yes/no dummy that indicates "some difficulty" (Rw[func]A). These are available from Wave 2 forward. Because of the inconsistent coding of the underlying HRS data, we do not construct R1[func]A variables in Wave 1. Please see the description of the Rw[func]A variables under "Other functional limitations: Some difficulty" for this version. Some of the Rw[func]A variables are used to construct functional limitation indices. Please see "Other Summary Indices."

A third version of these variables are derived for Wave 1 only (R1[func]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "Other functional limitations: Recodes for comparison to Wallace and Herzog" for a description of the R1[func]W variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes done in other waves (Rw[func]A) solely due to measurement differences in the raw data. The R1[func]W variables are not appropriate for comparison to the Rw[func]A variables in other waves.

## Cross Wave Differences in Original HRS Data

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime, but the question wording and possible answers vary. In Waves 1 and 2H, questions about activities of daily living (ADLs) are embedded among those about other functional limitations. This description applies to the other functional limitations. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please look at the answer categories at the top of page one of the booklet and tell me how difficult each activity is for you. Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...] ? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes: 1 for "not at all difficult," 2 for "a little difficult," 3 for "somewhat difficult," and 4 for "very difficult/can't do." Another code is used for the "Don't do" response. The first question asks how difficult it is to run or jog a mile. The specific wording for the other functional limitations (besides ADLs) is: walk several blocks; walk one block; sit for about 2 hours; get up from a chair after sitting for long periods; climb several flights of stairs without resting; climb one flight of stairs without resting; lift or carry weights over 10 pounds like a heavy bag of groceries; stoop, kneel, or crouch; pick up a dime from the table; reach or extend your arms above shoulder level; and push or pull large objects like a living room chair. If the Respondent says s/he has "no difficulty" with running a mile, then all the questions about walking, including several blocks, one block, and across a room, are skipped. If "no difficulty" is reported for walking several blocks then the questions about walking one block or across a room are skipped, and if "no difficulty" is reported for walking one block, the question about walking across a room is skipped. Likewise if "no difficulty" climbing several flights of stairs is reported, the question about climbing one flight of stairs is skipped.

In Wave 2H the questions and answers differ. The questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please tell me how difficult each of the following activities is for you. Exclude any difficulties that you expect to last less than three months. Do you have any difficulty with ...?" [IF YES] "Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments, so may be observed less frequently than in other waves, simply because of questionnaire differences. The number of "Don't do" responses is much larger in other waves for most activities. The specific wording for these activities and the question skips for walking and climbing stairs are the same as in Wave 1.

In Wave 2A, the questions are different from other waves and the list of activities is shorter. Also the ADL questions are asked first as a group. The questions ask about functional difficulties besides ADLs and IADLs:

"Do you have any difficulty ...?" Answers may be "yes," "no," "can't do" and "don't do." [If YES]: "Is that a little, or a lot of difficulty?" [If DON'T DO to the first question]: "Is that because of a health problem?"

The specific wording for these activities is: walking several blocks; climbing one flight of stairs without resting; pushing or pulling large objects like a living room chair; lifting or carrying weights over 10 pounds like a heavy bag of groceries; and picking up a dime from the table. If the Respondent reports needing help getting across a room earlier in the interview, then the questions about walking several blocks, climbing stairs, and pushing large objects are skipped.

From Wave 3 forward, the questions about ADLs and IADLs are asked after those about the other activities described here.

The questions ask:

"We need to understand difficulties people may have with various activities because of a health or physical problem. Please tell me whether you have any difficulty doing each of the everyday activities that I read to you. Exclude any difficulties that you expect to last less than three months. Because of a health problem do you have any difficulty with ...?"

The answers to the difficulty questions are simply yes, no, can't do, or don't do. The exact wording for these activities is: walking several blocks; running or jogging about a mile; across a room; walking one block; sitting for about 2 hours; getting up from a chair after sitting for long periods; climbing several flights of stairs without resting; climbing one flight of stairs without resting; stooping, kneeling, or crouching; reaching or extending your arms above shoulder level; pushing or pulling large objects like a living room chair; lifting or carrying weights over 10 pounds like a heavy bag of groceries; and picking up a dime from the table. If the Respondent reports no difficulty to walking several blocks, then the question about running a mile is asked, and the question about walking one block is skipped. The question about climbing one flight of stairs is skipped if no difficulty is reported for climbing several flights of stairs.

In Wave 7, the interviewer may also say the following if the Respondent is in a nursing home or confined to bed or a wheelchair, before asking about these activities:

"I am required to ask about all of these activities. I realize that you may not be able to do some of them, but I would appreciate it if you would just confirm that with me as we go through the list."

## HRS Variables Used

### HRS 1992:

V304	B4A:RUN OR JOG 1 MIL:IMP
V305	B4B:WALK SEVERAL BLO:IMP
V306	B4C:WALK 1 BLOCK :IMP
V308	B4E:SIT FOR 2 HOURS :IMP
V309	B4F:GET UP AFTR SIT :IMP
V311	B4H:CLMB SVRL FLTS S:IMP
V312	B4J:1 FLT STAIRS-NO :IMP
V313	B4K:LIFT/CARRY 10 LB:IMP
V314	B4M:STOOP/KNEEL/CROU:IMP
V315	B4N:PCK UP DIME FRM :IMP
V317	B4Q:ARMS OVER SHOULD:IMP
V318	B4R:PULL/PUSH LRG OB:IMP

### AHEAD 1993:

B768	E33. ADL WALK HELP EVER
B852	E47. WALK SEV BLOCKS ANY DIFFICULTY
B865	E48. STAIR CLIMB ANY DIFFICULTY
B872	E49. HEAVY OBJ ANY DIFFICULTY
B879	E50. LIFT 10 LBS ANY DIFFICULTY
B882	E51. PICK UP DIME ANY DIFFICULTY

### HRS 1994:

W306	B4.RUNNING/JOGGING 1 MIL
W307	B4a.WALKING SEVERAL BLOC
W308	B4b.WALKING ONE BLOCK
W311	B4e.GETTING UP AFTER SIT
W313	B4g.CLIMBING SEVERAL FLI
W314	B4h.CLIMBING ONE FLIGHT
W315	B4j.LIFTING OR CARRYING
W316	B4k.STOOPING/KNEELING/CR
W317	B4m.PICKING UP A DIME
W319	B4p.EXTENDING ARMS ABOVE

W320	B4q.PULLING/PUSHING LARG
AHEAD 1995:	
D1834	E60.DIFF-SEV BLKS
D1837	E61.DIFF-JOG
D1840	E62.DIFF-1 BLK
D1843	E63.DIFF-SIT
D1846	E64.DIFF-CHAIR
D1849	E65.DIFF-STAIRS
D1852	E66.DIFF-1 STAIR
D1855	E67.DIFF-STOOP
D1858	E68.DIFF-REACH
D1861	E69.DIFF-PULL PUSH
D1864	E70.E70.DIFF-WEIGHTS
D1867	E71.PICK DIME
HRS 1996:	
E1858	E60.DIFF-SEV BLKS
E1861	E61.DIFF-JOG
E1864	E62.DIFF-1 BLK
E1867	E63.DIFF-SIT
E1870	E64.DIFF-CHAIR
E1873	E65.DIFF-STAIRS
E1876	E66.DIFF-1 STAIR
E1879	E67.DIFF-STOOP
E1882	E68.DIFF-REACH
E1885	E69.DIFF-PULL PUSH
E1888	E70.DIFF-WEIGHTS
E1891	E71.PICK DIME
HRS 1998:	
F2391	E60.DIFF-SEV BLKS
F2392	E61.DIFF-JOG
F2394	E62.DIFF-1 BLK
F2397	E63.DIFF-SIT
F2400	E64.DIFF-CHAIR
F2403	E65.DIFF-STAIRS
F2406	E66.DIFF-1 STAIR
F2409	E67.DIFF-STOOP
F2412	E68.DIFF-REACH
F2415	E69.DIFF-PULL PUSH
F2418	E70.DIFF-WEIGHTS
F2421	E71.PICK DIME
HRS 2000:	
G2689	E60.DIFF-SEV BLKS
G2690	E61.DIFF-JOG
G2692	E62.DIFF-1 BLK
G2695	E63.DIFF-SIT
G2698	E64.DIFF-CHAIR
G2701	E65.DIFF-STAIRS
G2704	E66.DIFF-1 STAIR
G2707	E67.DIFF-STOOP
G2710	E68.DIFF-REACH
G2713	E69.DIFF-PULL PUSH
G2716	E70.DIFF-WEIGHTS
G2719	E71.PICK DIME
HRS 2002:	
HG001	DIFFICULTY- WALKING SEVERAL BLOCKS
HG002	DIFFICULTY- JOGGING 1 MILE
HG003	DIFFICULTY- WALKING 1 BLOCK
HG004	DIFFICULTY- SITTING 2 HOURS
HG005	DIFFICULTY- GETTING UP FROM CHAIR

HG006	DIFFICULTY- CLIMBING STAIRS
HG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
HG008	DIFFICULTY- STOOPING
HG009	DIFFICULTY- REACHING ARMS
HG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
HG011	DIFFICULTY- LIFTING WEIGHTS
HG012	DIFFICULTY- PICKING UP DIME
HRS 2004:	
JG001	DIFFICULTY- WALKING SEVERAL BLOCKS
JG002	DIFFICULTY- JOGGING 1 MILE
JG003	DIFFICULTY- WALKING 1 BLOCK
JG004	DIFFICULTY- SITTING 2 HOURS
JG005	DIFFICULTY- GETTING UP FROM CHAIR
JG006	DIFFICULTY- CLIMBING STAIRS
JG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
JG008	DIFFICULTY- STOOPING
JG009	DIFFICULTY- REACHING ARMS
JG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
JG011	DIFFICULTY- LIFTING WEIGHTS
JG012	DIFFICULTY- PICKING UP DIME
HRS 2006:	
KG001	DIFFICULTY- WALKING SEVERAL BLOCKS
KG002	DIFFICULTY- JOGGING 1 MILE
KG003	DIFFICULTY- WALKING 1 BLOCK
KG004	DIFFICULTY- SITTING 2 HOURS
KG005	DIFFICULTY- GETTING UP FROM CHAIR
KG006	DIFFICULTY- CLIMBING STAIRS
KG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
KG008	DIFFICULTY- STOOPING
KG009	DIFFICULTY- REACHING ARMS
KG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
KG011	DIFFICULTY- LIFTING WEIGHTS
KG012	DIFFICULTY- PICKING UP DIME
HRS 2008:	
LG001	DIFFICULTY- WALKING SEVERAL BLOCKS
LG002	DIFFICULTY- JOGGING 1 MILE
LG003	DIFFICULTY- WALKING 1 BLOCK
LG004	DIFFICULTY- SITTING 2 HOURS
LG005	DIFFICULTY- GETTING UP FROM CHAIR
LG006	DIFFICULTY- CLIMBING STAIRS
LG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
LG008	DIFFICULTY- STOOPING
LG009	DIFFICULTY- REACHING ARMS
LG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
LG011	DIFFICULTY- LIFTING WEIGHTS
LG012	DIFFICULTY- PICKING UP DIME
HRS 2010:	
MG001	DIFFICULTY- WALKING SEVERAL BLOCKS
MG002	DIFFICULTY- JOGGING 1 MILE
MG003	DIFFICULTY- WALKING 1 BLOCK
MG004	DIFFICULTY- SITTING 2 HOURS
MG005	DIFFICULTY- GETTING UP FROM CHAIR
MG006	DIFFICULTY- CLIMBING STAIRS
MG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
MG008	DIFFICULTY- STOOPING
MG009	DIFFICULTY- REACHING ARMS
MG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
MG011	DIFFICULTY- LIFTING WEIGHTS
MG012	DIFFICULTY- PICKING UP DIME

## HRS 2012:

NG001	DIFFICULTY- WALKING SEVERAL BLOCKS
NG002	DIFFICULTY- JOGGING 1 MILE
NG003	DIFFICULTY- WALKING 1 BLOCK
NG004	DIFFICULTY- SITTING 2 HOURS
NG005	DIFFICULTY- GETTING UP FROM CHAIR
NG006	DIFFICULTY- CLIMBING STAIRS
NG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
NG008	DIFFICULTY- STOOPING
NG009	DIFFICULTY- REACHING ARMS
NG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
NG011	DIFFICULTY- LIFTING WEIGHTS
NG012	DIFFICULTY- PICKING UP DIME

## HRS 2014:

OG001	DIFFICULTY- WALKING SEVERAL BLOCKS
OG002	DIFFICULTY- JOGGING 1 MILE
OG003	DIFFICULTY- WALKING 1 BLOCK
OG004	DIFFICULTY- SITTING 2 HOURS
OG005	DIFFICULTY- GETTING UP FROM CHAIR
OG006	DIFFICULTY- CLIMBING STAIRS
OG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
OG008	DIFFICULTY- STOOPING
OG009	DIFFICULTY- REACHING ARMS
OG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
OG011	DIFFICULTY- LIFTING WEIGHTS
OG012	DIFFICULTY- PICKING UP DIME



### Other Functional Limitations: Some difficulty

Wave	Variable	Label	Type
2	R2WALKSA	R2WALKSA:W2 R Some Diff-Walk sev blocks	Categ
3	R3WALKSA	R3WALKSA:W3 R Some Diff-Walk sev blocks	Categ
4	R4WALKSA	R4WALKSA:W4 R Some Diff-Walk sev blocks	Categ
5	R5WALKSA	R5WALKSA:W5 R Some Diff-Walk sev blocks	Categ
6	R6WALKSA	R6WALKSA:W6 R Some Diff-Walk sev blocks	Categ
7	R7WALKSA	R7WALKSA:W7 R Some Diff-Walk sev blocks	Categ
8	R8WALKSA	R8WALKSA:W8 R Some Diff-Walk sev blocks	Categ
9	R9WALKSA	R9WALKSA:W9 R Some Diff-Walk sev blocks	Categ
10	R10WALKSA	R10WALKSA:W10 R Some Diff-Walk sev blocks	Categ
11	R11WALKSA	R11WALKSA:W11 R Some Diff-Walk sev blocks	Categ
12	R12WALKSA	R12WALKSA:W12 R Some Diff-Walk sev blocks	Categ
2	S2WALKSA	S2WALKSA:W2 S Some Diff-Walk sev blocks	Categ
3	S3WALKSA	S3WALKSA:W3 S Some Diff-Walk sev blocks	Categ
4	S4WALKSA	S4WALKSA:W4 S Some Diff-Walk sev blocks	Categ
5	S5WALKSA	S5WALKSA:W5 S Some Diff-Walk sev blocks	Categ
6	S6WALKSA	S6WALKSA:W6 S Some Diff-Walk sev blocks	Categ
7	S7WALKSA	S7WALKSA:W7 S Some Diff-Walk sev blocks	Categ
8	S8WALKSA	S8WALKSA:W8 S Some Diff-Walk sev blocks	Categ
9	S9WALKSA	S9WALKSA:W9 S Some Diff-Walk sev blocks	Categ
10	S10WALKSA	S10WALKSA:W10 S Some Diff-Walk sev blocks	Categ
11	S11WALKSA	S11WALKSA:W11 S Some Diff-Walk sev blocks	Categ
12	S12WALKSA	S12WALKSA:W12 S Some Diff-Walk sev blocks	Categ
2	R2JOGA	R2JOGA:W2 R Some Diff-Jog one mile	Categ
3	R3JOGA	R3JOGA:W3 R Some Diff-Jog one mile	Categ
4	R4JOGA	R4JOGA:W4 R Some Diff-Jog one mile	Categ
5	R5JOGA	R5JOGA:W5 R Some Diff-Jog one mile	Categ
6	R6JOGA	R6JOGA:W6 R Some Diff-Jog one mile	Categ
7	R7JOGA	R7JOGA:W7 R Some Diff-Jog one mile	Categ
8	R8JOGA	R8JOGA:W8 R Some Diff-Jog one mile	Categ
9	R9JOGA	R9JOGA:W9 R Some Diff-Jog one mile	Categ
10	R10JOGA	R10JOGA:W10 R Some Diff-Jog one mile	Categ
11	R11JOGA	R11JOGA:W11 R Some Diff-Jog one mile	Categ
12	R12JOGA	R12JOGA:W12 R Some Diff-Jog one mile	Categ
2	S2JOGA	S2JOGA:W2 S Some Diff-Jog one mile	Categ
3	S3JOGA	S3JOGA:W3 S Some Diff-Jog one mile	Categ
4	S4JOGA	S4JOGA:W4 S Some Diff-Jog one mile	Categ
5	S5JOGA	S5JOGA:W5 S Some Diff-Jog one mile	Categ
6	S6JOGA	S6JOGA:W6 S Some Diff-Jog one mile	Categ
7	S7JOGA	S7JOGA:W7 S Some Diff-Jog one mile	Categ
8	S8JOGA	S8JOGA:W8 S Some Diff-Jog one mile	Categ
9	S9JOGA	S9JOGA:W9 S Some Diff-Jog one mile	Categ
10	S10JOGA	S10JOGA:W10 S Some Diff-Jog one mile	Categ
11	S11JOGA	S11JOGA:W11 S Some Diff-Jog one mile	Categ
12	S12JOGA	S12JOGA:W12 S Some Diff-Jog one mile	Categ
2	R2WALK1A	R2WALK1A:W2 R Some Diff-Walk one block	Categ
3	R3WALK1A	R3WALK1A:W3 R Some Diff-Walk one block	Categ
4	R4WALK1A	R4WALK1A:W4 R Some Diff-Walk one block	Categ
5	R5WALK1A	R5WALK1A:W5 R Some Diff-Walk one block	Categ
6	R6WALK1A	R6WALK1A:W6 R Some Diff-Walk one block	Categ
7	R7WALK1A	R7WALK1A:W7 R Some Diff-Walk one block	Categ
8	R8WALK1A	R8WALK1A:W8 R Some Diff-Walk one block	Categ
9	R9WALK1A	R9WALK1A:W9 R Some Diff-Walk one block	Categ
10	R10WALK1A	R10WALK1A:W10 R Some Diff-Walk one block	Categ
11	R11WALK1A	R11WALK1A:W11 R Some Diff-Walk one block	Categ
12	R12WALK1A	R12WALK1A:W12 R Some Diff-Walk one block	Categ
2	S2WALK1A	S2WALK1A:W2 S Some Diff-Walk one block	Categ
3	S3WALK1A	S3WALK1A:W3 S Some Diff-Walk one block	Categ
4	S4WALK1A	S4WALK1A:W4 S Some Diff-Walk one block	Categ
5	S5WALK1A	S5WALK1A:W5 S Some Diff-Walk one block	Categ
6	S6WALK1A	S6WALK1A:W6 S Some Diff-Walk one block	Categ
7	S7WALK1A	S7WALK1A:W7 S Some Diff-Walk one block	Categ

8	S8WALK1A	S8WALK1A:W8 S Some Diff-Walk one block	Categ
9	S9WALK1A	S9WALK1A:W9 S Some Diff-Walk one block	Categ
10	S10WALK1A	S10WALK1A:W10 S Some Diff-Walk one block	Categ
11	S11WALK1A	S11WALK1A:W11 S Some Diff-Walk one block	Categ
12	S12WALK1A	S12WALK1A:W12 S Some Diff-Walk one block	Categ
2	R2SITA	R2SITA:W2 R Some Diff-Sit for 2 hours	Categ
3	R3SITA	R3SITA:W3 R Some Diff-Sit for 2 hours	Categ
4	R4SITA	R4SITA:W4 R Some Diff-Sit for 2 hours	Categ
5	R5SITA	R5SITA:W5 R Some Diff-Sit for 2 hours	Categ
6	R6SITA	R6SITA:W6 R Some Diff-Sit for 2 hours	Categ
7	R7SITA	R7SITA:W7 R Some Diff-Sit for 2 hours	Categ
8	R8SITA	R8SITA:W8 R Some Diff-Sit for 2 hours	Categ
9	R9SITA	R9SITA:W9 R Some Diff-Sit for 2 hours	Categ
10	R10SITA	R10SITA:W10 R Some Diff-Sit for 2 hours	Categ
11	R11SITA	R11SITA:W11 R Some Diff-Sit for 2 hours	Categ
12	R12SITA	R12SITA:W12 R Some Diff-Sit for 2 hours	Categ
2	S2SITA	S2SITA:W2 S Some Diff-Sit for 2 hours	Categ
3	S3SITA	S3SITA:W3 S Some Diff-Sit for 2 hours	Categ
4	S4SITA	S4SITA:W4 S Some Diff-Sit for 2 hours	Categ
5	S5SITA	S5SITA:W5 S Some Diff-Sit for 2 hours	Categ
6	S6SITA	S6SITA:W6 S Some Diff-Sit for 2 hours	Categ
7	S7SITA	S7SITA:W7 S Some Diff-Sit for 2 hours	Categ
8	S8SITA	S8SITA:W8 S Some Diff-Sit for 2 hours	Categ
9	S9SITA	S9SITA:W9 S Some Diff-Sit for 2 hours	Categ
10	S10SITA	S10SITA:W10 S Some Diff-Sit for 2 hours	Categ
11	S11SITA	S11SITA:W11 S Some Diff-Sit for 2 hours	Categ
12	S12SITA	S12SITA:W12 S Some Diff-Sit for 2 hours	Categ
2	R2CHAIRA	R2CHAIRA:W2 R Some Diff-Get up fr chair	Categ
3	R3CHAIRA	R3CHAIRA:W3 R Some Diff-Get up fr chair	Categ
4	R4CHAIRA	R4CHAIRA:W4 R Some Diff-Get up fr chair	Categ
5	R5CHAIRA	R5CHAIRA:W5 R Some Diff-Get up fr chair	Categ
6	R6CHAIRA	R6CHAIRA:W6 R Some Diff-Get up fr chair	Categ
7	R7CHAIRA	R7CHAIRA:W7 R Some Diff-Get up fr chair	Categ
8	R8CHAIRA	R8CHAIRA:W8 R Some Diff-Get up fr chair	Categ
9	R9CHAIRA	R9CHAIRA:W9 R Some Diff-Get up fr chair	Categ
10	R10CHAIRA	R10CHAIRA:W10 R Some Diff-Get up fr chair	Categ
11	R11CHAIRA	R11CHAIRA:W11 R Some Diff-Get up fr chair	Categ
12	R12CHAIRA	R12CHAIRA:W12 R Some Diff-Get up fr chair	Categ
2	S2CHAIRA	S2CHAIRA:W2 S Some Diff-Get up fr chair	Categ
3	S3CHAIRA	S3CHAIRA:W3 S Some Diff-Get up fr chair	Categ
4	S4CHAIRA	S4CHAIRA:W4 S Some Diff-Get up fr chair	Categ
5	S5CHAIRA	S5CHAIRA:W5 S Some Diff-Get up fr chair	Categ
6	S6CHAIRA	S6CHAIRA:W6 S Some Diff-Get up fr chair	Categ
7	S7CHAIRA	S7CHAIRA:W7 S Some Diff-Get up fr chair	Categ
8	S8CHAIRA	S8CHAIRA:W8 S Some Diff-Get up fr chair	Categ
9	S9CHAIRA	S9CHAIRA:W9 S Some Diff-Get up fr chair	Categ
10	S10CHAIRA	S10CHAIRA:W10 S Some Diff-Get up fr chair	Categ
11	S11CHAIRA	S11CHAIRA:W11 S Some Diff-Get up fr chair	Categ
12	S12CHAIRA	S12CHAIRA:W12 S Some Diff-Get up fr chair	Categ
2	R2CLIMSA	R2CLIMSA:W2 R Some Diff-Clmb sev flt str	Categ
3	R3CLIMSA	R3CLIMSA:W3 R Some Diff-Clmb sev flt str	Categ
4	R4CLIMSA	R4CLIMSA:W4 R Some Diff-Clmb sev flt str	Categ
5	R5CLIMSA	R5CLIMSA:W5 R Some Diff-Clmb sev flt str	Categ
6	R6CLIMSA	R6CLIMSA:W6 R Some Diff-Clmb sev flt str	Categ
7	R7CLIMSA	R7CLIMSA:W7 R Some Diff-Clmb sev flt str	Categ
8	R8CLIMSA	R8CLIMSA:W8 R Some Diff-Clmb sev flt str	Categ
9	R9CLIMSA	R9CLIMSA:W9 R Some Diff-Clmb sev flt str	Categ
10	R10CLIMSA	R10CLIMSA:W10 R Some Diff-Clmb sev flt str	Categ
11	R11CLIMSA	R11CLIMSA:W11 R Some Diff-Clmb sev flt str	Categ
12	R12CLIMSA	R12CLIMSA:W12 R Some Diff-Clmb sev flt str	Categ
2	S2CLIMSA	S2CLIMSA:W2 S Some Diff-Clmb sev flt str	Categ
3	S3CLIMSA	S3CLIMSA:W3 S Some Diff-Clmb sev flt str	Categ
4	S4CLIMSA	S4CLIMSA:W4 S Some Diff-Clmb sev flt str	Categ
5	S5CLIMSA	S5CLIMSA:W5 S Some Diff-Clmb sev flt str	Categ
6	S6CLIMSA	S6CLIMSA:W6 S Some Diff-Clmb sev flt str	Categ
7	S7CLIMSA	S7CLIMSA:W7 S Some Diff-Clmb sev flt str	Categ

8	S8CLIMSA	S8CLIMSA:W8	S	Some	Diff-Clmb	sev	flt	str	Categ
9	S9CLIMSA	S9CLIMSA:W9	S	Some	Diff-Clmb	sev	flt	str	Categ
10	S10CLIMSA	S10CLIMSA:W10	S	Some	Diff-Clmb	sev	flt	str	Categ
11	S11CLIMSA	S11CLIMSA:W11	S	Some	Diff-Clmb	sev	flt	str	Categ
12	S12CLIMSA	S12CLIMSA:W12	S	Some	Diff-Clmb	sev	flt	str	Categ
2	R2CLIM1A	R2CLIM1A:W2	R	Some	Diff-Clmb	1	flt	stair	Categ
3	R3CLIM1A	R3CLIM1A:W3	R	Some	Diff-Clmb	1	flt	stair	Categ
4	R4CLIM1A	R4CLIM1A:W4	R	Some	Diff-Clmb	1	flt	stair	Categ
5	R5CLIM1A	R5CLIM1A:W5	R	Some	Diff-Clmb	1	flt	stair	Categ
6	R6CLIM1A	R6CLIM1A:W6	R	Some	Diff-Clmb	1	flt	stair	Categ
7	R7CLIM1A	R7CLIM1A:W7	R	Some	Diff-Clmb	1	flt	stair	Categ
8	R8CLIM1A	R8CLIM1A:W8	R	Some	Diff-Clmb	1	flt	stair	Categ
9	R9CLIM1A	R9CLIM1A:W9	R	Some	Diff-Clmb	1	flt	stair	Categ
10	R10CLIM1A	R10CLIM1A:W10	R	Some	Diff-Clmb	1	flt	stair	Categ
11	R11CLIM1A	R11CLIM1A:W11	R	Some	Diff-Clmb	1	flt	stair	Categ
12	R12CLIM1A	R12CLIM1A:W12	R	Some	Diff-Clmb	1	flt	stair	Categ
2	S2CLIM1A	S2CLIM1A:W2	S	Some	Diff-Clmb	1	flt	stair	Categ
3	S3CLIM1A	S3CLIM1A:W3	S	Some	Diff-Clmb	1	flt	stair	Categ
4	S4CLIM1A	S4CLIM1A:W4	S	Some	Diff-Clmb	1	flt	stair	Categ
5	S5CLIM1A	S5CLIM1A:W5	S	Some	Diff-Clmb	1	flt	stair	Categ
6	S6CLIM1A	S6CLIM1A:W6	S	Some	Diff-Clmb	1	flt	stair	Categ
7	S7CLIM1A	S7CLIM1A:W7	S	Some	Diff-Clmb	1	flt	stair	Categ
8	S8CLIM1A	S8CLIM1A:W8	S	Some	Diff-Clmb	1	flt	stair	Categ
9	S9CLIM1A	S9CLIM1A:W9	S	Some	Diff-Clmb	1	flt	stair	Categ
10	S10CLIM1A	S10CLIM1A:W10	S	Some	Diff-Clmb	1	flt	stair	Categ
11	S11CLIM1A	S11CLIM1A:W11	S	Some	Diff-Clmb	1	flt	stair	Categ
12	S12CLIM1A	S12CLIM1A:W12	S	Some	Diff-Clmb	1	flt	stair	Categ
2	R2STOOPA	R2STOOPA:W2	R	Some	Diff-Stoop/Kneel/Crch				Categ
3	R3STOOPA	R3STOOPA:W3	R	Some	Diff-Stoop/Kneel/Crch				Categ
4	R4STOOPA	R4STOOPA:W4	R	Some	Diff-Stoop/Kneel/Crch				Categ
5	R5STOOPA	R5STOOPA:W5	R	Some	Diff-Stoop/Kneel/Crch				Categ
6	R6STOOPA	R6STOOPA:W6	R	Some	Diff-Stoop/Kneel/Crch				Categ
7	R7STOOPA	R7STOOPA:W7	R	Some	Diff-Stoop/Kneel/Crch				Categ
8	R8STOOPA	R8STOOPA:W8	R	Some	Diff-Stoop/Kneel/Crch				Categ
9	R9STOOPA	R9STOOPA:W9	R	Some	Diff-Stoop/Kneel/Crch				Categ
10	R10STOOPA	R10STOOPA:W10	R	Some	Diff-Stoop/Kneel/Crch				Categ
11	R11STOOPA	R11STOOPA:W11	R	Some	Diff-Stoop/Kneel/Crch				Categ
12	R12STOOPA	R12STOOPA:W12	R	Some	Diff-Stoop/Kneel/Crch				Categ
2	S2STOOPA	S2STOOPA:W2	S	Some	Diff-Stoop/Kneel/Crch				Categ
3	S3STOOPA	S3STOOPA:W3	S	Some	Diff-Stoop/Kneel/Crch				Categ
4	S4STOOPA	S4STOOPA:W4	S	Some	Diff-Stoop/Kneel/Crch				Categ
5	S5STOOPA	S5STOOPA:W5	S	Some	Diff-Stoop/Kneel/Crch				Categ
6	S6STOOPA	S6STOOPA:W6	S	Some	Diff-Stoop/Kneel/Crch				Categ
7	S7STOOPA	S7STOOPA:W7	S	Some	Diff-Stoop/Kneel/Crch				Categ
8	S8STOOPA	S8STOOPA:W8	S	Some	Diff-Stoop/Kneel/Crch				Categ
9	S9STOOPA	S9STOOPA:W9	S	Some	Diff-Stoop/Kneel/Crch				Categ
10	S10STOOPA	S10STOOPA:W10	S	Some	Diff-Stoop/Kneel/Crch				Categ
11	S11STOOPA	S11STOOPA:W11	S	Some	Diff-Stoop/Kneel/Crch				Categ
12	S12STOOPA	S12STOOPA:W12	S	Some	Diff-Stoop/Kneel/Crch				Categ
2	R2LIFTA	R2LIFTA:W2	R	Some	Diff-Lift/carry	10lbs			Categ
3	R3LIFTA	R3LIFTA:W3	R	Some	Diff-Lift/carry	10lbs			Categ
4	R4LIFTA	R4LIFTA:W4	R	Some	Diff-Lift/carry	10lbs			Categ
5	R5LIFTA	R5LIFTA:W5	R	Some	Diff-Lift/carry	10lbs			Categ
6	R6LIFTA	R6LIFTA:W6	R	Some	Diff-Lift/carry	10lbs			Categ
7	R7LIFTA	R7LIFTA:W7	R	Some	Diff-Lift/carry	10lbs			Categ
8	R8LIFTA	R8LIFTA:W8	R	Some	Diff-Lift/carry	10lbs			Categ
9	R9LIFTA	R9LIFTA:W9	R	Some	Diff-Lift/carry	10lbs			Categ
10	R10LIFTA	R10LIFTA:W10	R	Some	Diff-Lift/carry	10lbs			Categ
11	R11LIFTA	R11LIFTA:W11	R	Some	Diff-Lift/carry	10lbs			Categ
12	R12LIFTA	R12LIFTA:W12	R	Some	Diff-Lift/carry	10lbs			Categ
2	S2LIFTA	S2LIFTA:W2	S	Some	Diff-Lift/carry	10lbs			Categ
3	S3LIFTA	S3LIFTA:W3	S	Some	Diff-Lift/carry	10lbs			Categ
4	S4LIFTA	S4LIFTA:W4	S	Some	Diff-Lift/carry	10lbs			Categ
5	S5LIFTA	S5LIFTA:W5	S	Some	Diff-Lift/carry	10lbs			Categ
6	S6LIFTA	S6LIFTA:W6	S	Some	Diff-Lift/carry	10lbs			Categ
7	S7LIFTA	S7LIFTA:W7	S	Some	Diff-Lift/carry	10lbs			Categ

8	S8LIFTA	S8LIFTA:W8	S	Some Diff-Lift/carry 10lbs	Categ
9	S9LIFTA	S9LIFTA:W9	S	Some Diff-Lift/carry 10lbs	Categ
10	S10LIFTA	S10LIFTA:W10	S	Some Diff-Lift/carry 10lbs	Categ
11	S11LIFTA	S11LIFTA:W11	S	Some Diff-Lift/carry 10lbs	Categ
12	S12LIFTA	S12LIFTA:W12	S	Some Diff-Lift/carry 10lbs	Categ
2	R2DIMEA	R2DIMEA:W2	R	Some Diff-Pick up a dime	Categ
3	R3DIMEA	R3DIMEA:W3	R	Some Diff-Pick up a dime	Categ
4	R4DIMEA	R4DIMEA:W4	R	Some Diff-Pick up a dime	Categ
5	R5DIMEA	R5DIMEA:W5	R	Some Diff-Pick up a dime	Categ
6	R6DIMEA	R6DIMEA:W6	R	Some Diff-Pick up a dime	Categ
7	R7DIMEA	R7DIMEA:W7	R	Some Diff-Pick up a dime	Categ
8	R8DIMEA	R8DIMEA:W8	R	Some Diff-Pick up a dime	Categ
9	R9DIMEA	R9DIMEA:W9	R	Some Diff-Pick up a dime	Categ
10	R10DIMEA	R10DIMEA:W10	R	Some Diff-Pick up a dime	Categ
11	R11DIMEA	R11DIMEA:W11	R	Some Diff-Pick up a dime	Categ
12	R12DIMEA	R12DIMEA:W12	R	Some Diff-Pick up a dime	Categ
2	S2DIMEA	S2DIMEA:W2	S	Some Diff-Pick up a dime	Categ
3	S3DIMEA	S3DIMEA:W3	S	Some Diff-Pick up a dime	Categ
4	S4DIMEA	S4DIMEA:W4	S	Some Diff-Pick up a dime	Categ
5	S5DIMEA	S5DIMEA:W5	S	Some Diff-Pick up a dime	Categ
6	S6DIMEA	S6DIMEA:W6	S	Some Diff-Pick up a dime	Categ
7	S7DIMEA	S7DIMEA:W7	S	Some Diff-Pick up a dime	Categ
8	S8DIMEA	S8DIMEA:W8	S	Some Diff-Pick up a dime	Categ
9	S9DIMEA	S9DIMEA:W9	S	Some Diff-Pick up a dime	Categ
10	S10DIMEA	S10DIMEA:W10	S	Some Diff-Pick up a dime	Categ
11	S11DIMEA	S11DIMEA:W11	S	Some Diff-Pick up a dime	Categ
12	S12DIMEA	S12DIMEA:W12	S	Some Diff-Pick up a dime	Categ
2	R2ARMSA	R2ARMSA:W2	R	Some Diff-Rch/xtnd arms up	Categ
3	R3ARMSA	R3ARMSA:W3	R	Some Diff-Rch/xtnd arms up	Categ
4	R4ARMSA	R4ARMSA:W4	R	Some Diff-Rch/xtnd arms up	Categ
5	R5ARMSA	R5ARMSA:W5	R	Some Diff-Rch/xtnd arms up	Categ
6	R6ARMSA	R6ARMSA:W6	R	Some Diff-Rch/xtnd arms up	Categ
7	R7ARMSA	R7ARMSA:W7	R	Some Diff-Rch/xtnd arms up	Categ
8	R8ARMSA	R8ARMSA:W8	R	Some Diff-Rch/xtnd arms up	Categ
9	R9ARMSA	R9ARMSA:W9	R	Some Diff-Rch/xtnd arms up	Categ
10	R10ARMSA	R10ARMSA:W10	R	Some Diff-Rch/xtnd arms up	Categ
11	R11ARMSA	R11ARMSA:W11	R	Some Diff-Rch/xtnd arms up	Categ
12	R12ARMSA	R12ARMSA:W12	R	Some Diff-Rch/xtnd arms up	Categ
2	S2ARMSA	S2ARMSA:W2	S	Some Diff-Rch/xtnd arms up	Categ
3	S3ARMSA	S3ARMSA:W3	S	Some Diff-Rch/xtnd arms up	Categ
4	S4ARMSA	S4ARMSA:W4	S	Some Diff-Rch/xtnd arms up	Categ
5	S5ARMSA	S5ARMSA:W5	S	Some Diff-Rch/xtnd arms up	Categ
6	S6ARMSA	S6ARMSA:W6	S	Some Diff-Rch/xtnd arms up	Categ
7	S7ARMSA	S7ARMSA:W7	S	Some Diff-Rch/xtnd arms up	Categ
8	S8ARMSA	S8ARMSA:W8	S	Some Diff-Rch/xtnd arms up	Categ
9	S9ARMSA	S9ARMSA:W9	S	Some Diff-Rch/xtnd arms up	Categ
10	S10ARMSA	S10ARMSA:W10	S	Some Diff-Rch/xtnd arms up	Categ
11	S11ARMSA	S11ARMSA:W11	S	Some Diff-Rch/xtnd arms up	Categ
12	S12ARMSA	S12ARMSA:W12	S	Some Diff-Rch/xtnd arms up	Categ
2	R2PUSHA	R2PUSHA:W2	R	Some Diff-Push/pull lg obj	Categ
3	R3PUSHA	R3PUSHA:W3	R	Some Diff-Push/pull lg obj	Categ
4	R4PUSHA	R4PUSHA:W4	R	Some Diff-Push/pull lg obj	Categ
5	R5PUSHA	R5PUSHA:W5	R	Some Diff-Push/pull lg obj	Categ
6	R6PUSHA	R6PUSHA:W6	R	Some Diff-Push/pull lg obj	Categ
7	R7PUSHA	R7PUSHA:W7	R	Some Diff-Push/pull lg obj	Categ
8	R8PUSHA	R8PUSHA:W8	R	Some Diff-Push/pull lg obj	Categ
9	R9PUSHA	R9PUSHA:W9	R	Some Diff-Push/pull lg obj	Categ
10	R10PUSHA	R10PUSHA:W10	R	Some Diff-Push/pull lg obj	Categ
11	R11PUSHA	R11PUSHA:W11	R	Some Diff-Push/pull lg obj	Categ
12	R12PUSHA	R12PUSHA:W12	R	Some Diff-Push/pull lg obj	Categ
2	S2PUSHA	S2PUSHA:W2	S	Some Diff-Push/pull lg obj	Categ
3	S3PUSHA	S3PUSHA:W3	S	Some Diff-Push/pull lg obj	Categ
4	S4PUSHA	S4PUSHA:W4	S	Some Diff-Push/pull lg obj	Categ
5	S5PUSHA	S5PUSHA:W5	S	Some Diff-Push/pull lg obj	Categ
6	S6PUSHA	S6PUSHA:W6	S	Some Diff-Push/pull lg obj	Categ
7	S7PUSHA	S7PUSHA:W7	S	Some Diff-Push/pull lg obj	Categ

8	S8PUSHA	S8PUSHA:W8 S Some Diff-Push/pull lg obj	Categ
9	S9PUSHA	S9PUSHA:W9 S Some Diff-Push/pull lg obj	Categ
10	S10PUSHA	S10PUSHA:W10 S Some Diff-Push/pull lg obj	Categ
11	S11PUSHA	S11PUSHA:W11 S Some Diff-Push/pull lg obj	Categ
12	S12PUSHA	S12PUSHA:W12 S Some Diff-Push/pull lg obj	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2WALKSA	19099	0.26	0.44	0.0	1.0
R3WALKSA	17417	0.28	0.45	0.0	1.0
R4WALKSA	20844	0.28	0.45	0.0	1.0
R5WALKSA	19007	0.29	0.45	0.0	1.0
R6WALKSA	17693	0.32	0.47	0.0	1.0
R7WALKSA	19585	0.30	0.46	0.0	1.0
R8WALKSA	18119	0.32	0.47	0.0	1.0
R9WALKSA	16879	0.33	0.47	0.0	1.0
R10WALKSA	21700	0.31	0.46	0.0	1.0
R11WALKSA	20332	0.32	0.47	0.0	1.0
R12WALKSA	18590	0.34	0.47	0.0	1.0
S2WALKSA	12753	0.20	0.40	0.0	1.0
S3WALKSA	11667	0.22	0.42	0.0	1.0
S4WALKSA	13746	0.22	0.42	0.0	1.0
S5WALKSA	12485	0.24	0.43	0.0	1.0
S6WALKSA	11456	0.26	0.44	0.0	1.0
S7WALKSA	12750	0.24	0.43	0.0	1.0
S8WALKSA	11604	0.26	0.44	0.0	1.0
S9WALKSA	10521	0.26	0.44	0.0	1.0
S10WALKSA	13364	0.25	0.43	0.0	1.0
S11WALKSA	12406	0.26	0.44	0.0	1.0
S12WALKSA	10977	0.27	0.44	0.0	1.0
R2JOGA	10703	0.70	0.46	0.0	1.0
R3JOGA	6413	0.58	0.49	0.0	1.0
R4JOGA	7484	0.58	0.49	0.0	1.0
R5JOGA	6222	0.58	0.49	0.0	1.0
R6JOGA	6206	0.66	0.48	0.0	1.0
R7JOGA	8112	0.62	0.48	0.0	1.0
R8JOGA	8012	0.65	0.48	0.0	1.0
R9JOGA	7436	0.64	0.48	0.0	1.0
R10JOGA	12546	0.56	0.50	0.0	1.0
R11JOGA	11497	0.56	0.50	0.0	1.0
R12JOGA	10687	0.56	0.50	0.0	1.0
S2JOGA	8190	0.70	0.46	0.0	1.0
S3JOGA	4835	0.57	0.49	0.0	1.0
S4JOGA	5542	0.57	0.49	0.0	1.0
S5JOGA	4619	0.57	0.50	0.0	1.0
S6JOGA	4579	0.64	0.48	0.0	1.0
S7JOGA	5980	0.61	0.49	0.0	1.0
S8JOGA	5824	0.63	0.48	0.0	1.0
S9JOGA	5287	0.63	0.48	0.0	1.0
S10JOGA	8610	0.55	0.50	0.0	1.0
S11JOGA	7831	0.55	0.50	0.0	1.0
S12JOGA	7103	0.54	0.50	0.0	1.0

R2WALK1A	11071	0.07	0.25	0.0	1.0
R3WALK1A	17735	0.13	0.34	0.0	1.0
R4WALK1A	21160	0.14	0.34	0.0	1.0
R5WALK1A	19323	0.15	0.35	0.0	1.0
R6WALK1A	17965	0.16	0.37	0.0	1.0
R7WALK1A	19867	0.15	0.36	0.0	1.0
R8WALK1A	18283	0.17	0.37	0.0	1.0
R9WALK1A	17053	0.17	0.38	0.0	1.0
R10WALK1A	21790	0.16	0.36	0.0	1.0
R11WALK1A	20420	0.17	0.37	0.0	1.0
R12WALK1A	18639	0.17	0.38	0.0	1.0
S2WALK1A	8472	0.06	0.23	0.0	1.0
S3WALK1A	11827	0.10	0.30	0.0	1.0
S4WALK1A	13903	0.10	0.30	0.0	1.0
S5WALK1A	12637	0.11	0.31	0.0	1.0
S6WALK1A	11565	0.12	0.33	0.0	1.0
S7WALK1A	12880	0.11	0.31	0.0	1.0
S8WALK1A	11677	0.12	0.33	0.0	1.0
S9WALK1A	10592	0.12	0.33	0.0	1.0
S10WALK1A	13400	0.12	0.32	0.0	1.0
S11WALK1A	12443	0.13	0.33	0.0	1.0
S12WALK1A	10992	0.13	0.34	0.0	1.0
R2SITA	11391	0.20	0.40	0.0	1.0
R3SITA	17778	0.19	0.39	0.0	1.0
R4SITA	21139	0.18	0.39	0.0	1.0
R5SITA	19357	0.18	0.39	0.0	1.0
R6SITA	17978	0.20	0.40	0.0	1.0
R7SITA	19964	0.19	0.39	0.0	1.0
R8SITA	18340	0.20	0.40	0.0	1.0
R9SITA	17094	0.19	0.40	0.0	1.0
R10SITA	21789	0.20	0.40	0.0	1.0
R11SITA	20423	0.21	0.41	0.0	1.0
R12SITA	18640	0.21	0.41	0.0	1.0
S2SITA	8715	0.18	0.39	0.0	1.0
S3SITA	11799	0.18	0.38	0.0	1.0
S4SITA	13847	0.17	0.38	0.0	1.0
S5SITA	12620	0.17	0.38	0.0	1.0
S6SITA	11532	0.19	0.39	0.0	1.0
S7SITA	12884	0.18	0.39	0.0	1.0
S8SITA	11673	0.18	0.39	0.0	1.0
S9SITA	10587	0.18	0.38	0.0	1.0
S10SITA	13381	0.19	0.39	0.0	1.0
S11SITA	12433	0.19	0.39	0.0	1.0
S12SITA	10982	0.19	0.39	0.0	1.0
R2CHAIRA	11409	0.32	0.47	0.0	1.0
R3CHAIRA	17899	0.36	0.48	0.0	1.0
R4CHAIRA	21303	0.37	0.48	0.0	1.0
R5CHAIRA	19497	0.38	0.48	0.0	1.0
R6CHAIRA	18115	0.41	0.49	0.0	1.0
R7CHAIRA	20061	0.39	0.49	0.0	1.0
R8CHAIRA	18418	0.42	0.49	0.0	1.0
R9CHAIRA	17163	0.41	0.49	0.0	1.0
R10CHAIRA	21849	0.39	0.49	0.0	1.0
R11CHAIRA	20483	0.39	0.49	0.0	1.0

R12CHAIRA	18681	0.40	0.49	0.0	1.0
S2CHAIRA	8729	0.31	0.46	0.0	1.0
S3CHAIRA	11874	0.33	0.47	0.0	1.0
S4CHAIRA	13945	0.33	0.47	0.0	1.0
S5CHAIRA	12700	0.34	0.48	0.0	1.0
S6CHAIRA	11617	0.38	0.48	0.0	1.0
S7CHAIRA	12941	0.36	0.48	0.0	1.0
S8CHAIRA	11712	0.38	0.49	0.0	1.0
S9CHAIRA	10623	0.38	0.48	0.0	1.0
S10CHAIRA	13408	0.36	0.48	0.0	1.0
S11CHAIRA	12459	0.35	0.48	0.0	1.0
S12CHAIRA	11001	0.36	0.48	0.0	1.0
R2CLIMSA	11296	0.34	0.47	0.0	1.0
R3CLIMSA	15784	0.42	0.49	0.0	1.0
R4CLIMSA	18914	0.42	0.49	0.0	1.0
R5CLIMSA	17303	0.43	0.50	0.0	1.0
R6CLIMSA	16132	0.47	0.50	0.0	1.0
R7CLIMSA	18200	0.45	0.50	0.0	1.0
R8CLIMSA	17105	0.49	0.50	0.0	1.0
R9CLIMSA	15828	0.48	0.50	0.0	1.0
R10CLIMSA	21010	0.46	0.50	0.0	1.0
R11CLIMSA	19621	0.47	0.50	0.0	1.0
R12CLIMSA	18031	0.49	0.50	0.0	1.0
S2CLIMSA	8656	0.31	0.46	0.0	1.0
S3CLIMSA	10732	0.38	0.48	0.0	1.0
S4CLIMSA	12683	0.37	0.48	0.0	1.0
S5CLIMSA	11549	0.39	0.49	0.0	1.0
S6CLIMSA	10624	0.42	0.49	0.0	1.0
S7CLIMSA	12042	0.40	0.49	0.0	1.0
S8CLIMSA	11110	0.43	0.49	0.0	1.0
S9CLIMSA	10008	0.43	0.49	0.0	1.0
S10CLIMSA	13070	0.41	0.49	0.0	1.0
S11CLIMSA	12123	0.42	0.49	0.0	1.0
S12CLIMSA	10755	0.43	0.50	0.0	1.0
R2CLIM1A	19249	0.18	0.39	0.0	1.0
R3CLIM1A	17200	0.17	0.38	0.0	1.0
R4CLIM1A	20542	0.17	0.38	0.0	1.0
R5CLIM1A	18735	0.18	0.39	0.0	1.0
R6CLIM1A	17508	0.19	0.39	0.0	1.0
R7CLIM1A	19423	0.19	0.39	0.0	1.0
R8CLIM1A	17974	0.20	0.40	0.0	1.0
R9CLIM1A	16710	0.20	0.40	0.0	1.0
R10CLIM1A	21574	0.19	0.40	0.0	1.0
R11CLIM1A	20184	0.20	0.40	0.0	1.0
R12CLIM1A	18442	0.21	0.41	0.0	1.0
S2CLIM1A	12932	0.14	0.35	0.0	1.0
S3CLIM1A	11573	0.13	0.34	0.0	1.0
S4CLIM1A	13638	0.13	0.34	0.0	1.0
S5CLIM1A	12390	0.14	0.35	0.0	1.0
S6CLIM1A	11389	0.14	0.35	0.0	1.0
S7CLIM1A	12706	0.14	0.35	0.0	1.0
S8CLIM1A	11544	0.15	0.36	0.0	1.0
S9CLIM1A	10479	0.15	0.36	0.0	1.0
S10CLIM1A	13324	0.15	0.35	0.0	1.0

S11CLIM1A	12358	0.15	0.36	0.0	1.0
S12CLIM1A	10926	0.16	0.37	0.0	1.0
R2STOOPA	11411	0.35	0.48	0.0	1.0
R3STOOPA	17665	0.41	0.49	0.0	1.0
R4STOOPA	20986	0.41	0.49	0.0	1.0
R5STOOPA	19193	0.42	0.49	0.0	1.0
R6STOOPA	17847	0.46	0.50	0.0	1.0
R7STOOPA	19705	0.45	0.50	0.0	1.0
R8STOOPA	18198	0.48	0.50	0.0	1.0
R9STOOPA	16943	0.49	0.50	0.0	1.0
R10STOOPA	21712	0.46	0.50	0.0	1.0
R11STOOPA	20312	0.46	0.50	0.0	1.0
R12STOOPA	18553	0.48	0.50	0.0	1.0
S2STOOPA	8732	0.33	0.47	0.0	1.0
S3STOOPA	11775	0.37	0.48	0.0	1.0
S4STOOPA	13784	0.37	0.48	0.0	1.0
S5STOOPA	12566	0.39	0.49	0.0	1.0
S6STOOPA	11516	0.42	0.49	0.0	1.0
S7STOOPA	12788	0.41	0.49	0.0	1.0
S8STOOPA	11629	0.44	0.50	0.0	1.0
S9STOOPA	10544	0.44	0.50	0.0	1.0
S10STOOPA	13360	0.42	0.49	0.0	1.0
S11STOOPA	12403	0.42	0.49	0.0	1.0
S12STOOPA	10957	0.43	0.50	0.0	1.0
R2LIFTA	19376	0.25	0.43	0.0	1.0
R3LIFTA	16997	0.23	0.42	0.0	1.0
R4LIFTA	20360	0.23	0.42	0.0	1.0
R5LIFTA	18633	0.23	0.42	0.0	1.0
R6LIFTA	17364	0.24	0.42	0.0	1.0
R7LIFTA	19316	0.23	0.42	0.0	1.0
R8LIFTA	17887	0.25	0.43	0.0	1.0
R9LIFTA	16659	0.25	0.43	0.0	1.0
R10LIFTA	21522	0.27	0.44	0.0	1.0
R11LIFTA	20166	0.27	0.44	0.0	1.0
R12LIFTA	18461	0.28	0.45	0.0	1.0
S2LIFTA	12992	0.20	0.40	0.0	1.0
S3LIFTA	11489	0.18	0.39	0.0	1.0
S4LIFTA	13542	0.18	0.38	0.0	1.0
S5LIFTA	12372	0.18	0.38	0.0	1.0
S6LIFTA	11339	0.18	0.38	0.0	1.0
S7LIFTA	12663	0.18	0.38	0.0	1.0
S8LIFTA	11528	0.19	0.39	0.0	1.0
S9LIFTA	10455	0.19	0.39	0.0	1.0
S10LIFTA	13308	0.21	0.40	0.0	1.0
S11LIFTA	12365	0.20	0.40	0.0	1.0
S12LIFTA	10940	0.21	0.41	0.0	1.0
R2DIMEA	19607	0.06	0.24	0.0	1.0
R3DIMEA	17909	0.07	0.26	0.0	1.0
R4DIMEA	21282	0.07	0.26	0.0	1.0
R5DIMEA	19482	0.07	0.26	0.0	1.0
R6DIMEA	18099	0.07	0.26	0.0	1.0
R7DIMEA	20040	0.07	0.26	0.0	1.0
R8DIMEA	18413	0.08	0.27	0.0	1.0
R9DIMEA	17158	0.08	0.27	0.0	1.0



R10DIMEA	21839	0.08	0.26	0.0	1.0
R11DIMEA	20496	0.08	0.27	0.0	1.0
R12DIMEA	18698	0.09	0.28	0.0	1.0
S2DIMEA	13074	0.05	0.22	0.0	1.0
S3DIMEA	11879	0.06	0.24	0.0	1.0
S4DIMEA	13939	0.05	0.23	0.0	1.0
S5DIMEA	12695	0.06	0.24	0.0	1.0
S6DIMEA	11614	0.06	0.23	0.0	1.0
S7DIMEA	12940	0.05	0.23	0.0	1.0
S8DIMEA	11721	0.06	0.24	0.0	1.0
S9DIMEA	10631	0.06	0.24	0.0	1.0
S10DIMEA	13407	0.06	0.24	0.0	1.0
S11DIMEA	12469	0.06	0.24	0.0	1.0
S12DIMEA	11012	0.07	0.25	0.0	1.0
R2ARMSA	11411	0.13	0.33	0.0	1.0
R3ARMSA	17848	0.16	0.37	0.0	1.0
R4ARMSA	21234	0.16	0.37	0.0	1.0
R5ARMSA	19452	0.16	0.37	0.0	1.0
R6ARMSA	18063	0.17	0.37	0.0	1.0
R7ARMSA	20014	0.16	0.37	0.0	1.0
R8ARMSA	18375	0.17	0.38	0.0	1.0
R9ARMSA	17144	0.17	0.38	0.0	1.0
R10ARMSA	21833	0.18	0.39	0.0	1.0
R11ARMSA	20480	0.18	0.38	0.0	1.0
R12ARMSA	18675	0.19	0.40	0.0	1.0
S2ARMSA	8735	0.11	0.31	0.0	1.0
S3ARMSA	11851	0.14	0.35	0.0	1.0
S4ARMSA	13921	0.13	0.34	0.0	1.0
S5ARMSA	12680	0.13	0.34	0.0	1.0
S6ARMSA	11598	0.14	0.35	0.0	1.0
S7ARMSA	12928	0.14	0.35	0.0	1.0
S8ARMSA	11703	0.14	0.35	0.0	1.0
S9ARMSA	10614	0.14	0.35	0.0	1.0
S10ARMSA	13406	0.15	0.36	0.0	1.0
S11ARMSA	12457	0.15	0.35	0.0	1.0
S12ARMSA	11003	0.16	0.37	0.0	1.0
R2PUSHA	19178	0.26	0.44	0.0	1.0
R3PUSHA	16391	0.25	0.44	0.0	1.0
R4PUSHA	19668	0.25	0.43	0.0	1.0
R5PUSHA	18018	0.25	0.43	0.0	1.0
R6PUSHA	16818	0.26	0.44	0.0	1.0
R7PUSHA	18871	0.25	0.44	0.0	1.0
R8PUSHA	17553	0.28	0.45	0.0	1.0
R9PUSHA	16321	0.27	0.44	0.0	1.0
R10PUSHA	21361	0.29	0.45	0.0	1.0
R11PUSHA	19989	0.29	0.45	0.0	1.0
R12PUSHA	18390	0.30	0.46	0.0	1.0
S2PUSHA	12908	0.22	0.41	0.0	1.0
S3PUSHA	11137	0.21	0.41	0.0	1.0
S4PUSHA	13149	0.20	0.40	0.0	1.0
S5PUSHA	12045	0.20	0.40	0.0	1.0
S6PUSHA	11050	0.21	0.41	0.0	1.0
S7PUSHA	12430	0.20	0.40	0.0	1.0
S8PUSHA	11362	0.23	0.42	0.0	1.0

S9PUSHA	10323	0.21	0.41	0.0	1.0
S10PUSHA	13234	0.23	0.42	0.0	1.0
S11PUSHA	12287	0.24	0.42	0.0	1.0
S12PUSHA	10907	0.24	0.43	0.0	1.0

## Categorical Variable Codes

Value	R2WALKSA	R3WALKSA	R4WALKSA	R5WALKSA	R6WALKSA	R7WALKSA
.D=DK/NA	340	4	3	4	3	5
.M=Oth missing	1	1				
.R=RF	1	2	5	3		4
.S=Skip		35	25	23		9
.X=Don't do	201	532	507	542	462	526
0.No	14211	12593	15073	13471	12070	13706
1.Yes	4888	4824	5771	5536	5623	5879

Value	R8WALKSA	R9WALKSA	R10WALKSA	R11WALKSA	R12WALKSA
.D=DK/NA	4	7	11	19	21
.R=RF	3	1	7	5	1
.S=Skip	7	7	128	18	15
.X=Don't do	336	323	188	180	120
0.No	12268	11330	15016	13860	12354
1.Yes	5851	5549	6684	6472	6236

Value	S2WALKSA	S3WALKSA	S4WALKSA	S5WALKSA	S6WALKSA	S7WALKSA
.D=DK/NA	260	1		2	2	3
.M=Oth missing	1	1				
.R=RF	1	1	1	1		2
.S=Skip		10	6	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	73	235	225	237	178	216
0.No	10170	9058	10682	9515	8476	9662
1.Yes	2583	2609	3064	2970	2980	3088

Value	S8WALKSA	S9WALKSA	S10WALKSA	S11WALKSA	S12WALKSA
.D=DK/NA	1	3	8	7	6
.R=RF	2	1	4	1	1
.S=Skip	1		77	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	127	121	60	70	40
0.No	8567	7756	10021	9187	7994
1.Yes	3037	2765	3343	3219	2983

Value	R2JOGA	R3JOGA	R4JOGA	R5JOGA	R6JOGA	R7JOGA
.D=DK/NA	55	2	4	4	8	10
.Q=Not asked this wv	8222					
.R=RF	4					1
.S=Skip		5398	6312	6108	6095	6423
.X=Don't do	658	6178	7584	7245	5856	5583
0.No	3200	2675	3119	2618	2138	3054
1.Yes	7503	3738	4365	3604	4068	5058

Value	R8JOGA	R9JOGA	R10JOGA	R11JOGA	R12JOGA
.D=DK/NA	6	14	36	23	25
.R=RF	1		3	1	4
.S=Skip	6201	5887	7019	6694	6393
.X=Don't do	4249	3880	2430	2339	1638
0.No	2841	2661	5563	5014	4684
1.Yes	5171	4775	6983	6483	6003

Value	S2JOGA	S3JOGA	S4JOGA	S5JOGA	S6JOGA	S7JOGA
.D=DK/NA	40	2	1	1	6	6
.Q=Not asked this wv	4549					
.R=RF	4					1
.S=Skip		2857	3297	3215	3163	3310
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	505	4221	5138	4895	3891	3675
0.No	2491	2058	2359	1988	1640	2304
1.Yes	5699	2777	3183	2631	2939	3676

Value	S8JOGA	S9JOGA	S10JOGA	S11JOGA	S12JOGA
.D=DK/NA	4	9	24	14	18
.R=RF			2	1	
.S=Skip	3168	2890	3493	3301	3033
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	2739	2460	1384	1341	873
0.No	2132	1945	3904	3507	3232
1.Yes	3692	3342	4706	4324	3871

Value	R2WALK1A	R3WALK1A	R4WALK1A	R5WALK1A	R6WALK1A	R7WALK1A
.D=DK/NA	347	4	4	4	6	3
.M=Oth missing		1				
.Q=Not asked this wv	8222					
.R=RF	2	2	5	3		3
.S=Skip		35	25	23	7	9
.X=Don't do		214	190	226	187	247
0.No	10332	15368	18287	16477	15041	16875
1.Yes	739	2367	2873	2846	2924	2992

Value	R8WALK1A	R9WALK1A	R10WALK1A	R11WALK1A	R12WALK1A
.D=DK/NA	4	5	10	18	16
.R=RF	3	1	7	4	2
.S=Skip	7	8	128	18	15
.X=Don't do	172	150	99	94	75
0.No	15257	14119	18347	16987	15403
1.Yes	3026	2934	3443	3433	3236

Value	S2WALK1A	S3WALK1A	S4WALK1A	S5WALK1A	S6WALK1A	S7WALK1A
.D=DK/NA	265	1	2	1	1	
.Q=Not asked this wv	4549					
.R=RF	2	1	1	1		1
.S=Skip		10	6	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do		76	66	86	70	90
0.No	7987	10658	12499	11245	10166	11470
1.Yes	485	1169	1404	1392	1399	1410

Value	S8WALK1A	S9WALK1A	S10WALK1A	S11WALK1A	S12WALK1A
.D=DK/NA	1	2	5	9	7
.R=RF	2	1	4		1
.S=Skip	1	1	77	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	54	50	27	32	24
0.No	10237	9269	11854	10880	9545
1.Yes	1440	1323	1546	1563	1447

Value	R2SITA	R3SITA	R4SITA	R5SITA	R6SITA	R7SITA
.D=DK/NA	12	4	6	7	7	7
.Q=Not asked this wv	8222					
.R=RF	1	2	5	3		6
.S=Skip		35	26	23	7	10
.X=Don't do	16	172	208	189	173	142
0.No	9166	14486	17275	15790	14405	16112
1.Yes	2225	3292	3864	3567	3573	3852

Value	R8SITA	R9SITA	R10SITA	R11SITA	R12SITA
.D=DK/NA	8	5	18	13	9
.R=RF	3	1	9	3	5
.S=Skip	7	8	129	18	16
.X=Don't do	111	109	89	97	77
0.No	14718	13786	17349	16186	14699
1.Yes	3622	3308	4440	4237	3941

Value	S2SITA	S3SITA	S4SITA	S5SITA	S6SITA	S7SITA
.D=DK/NA	12	1		2	1	4
.Q=Not asked this wv	4549					
.R=RF	1	1	1	1		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	11	104	123	102	103	80
0.No	7110	9700	11450	10457	9372	10519
1.Yes	1605	2099	2397	2163	2160	2365

Value	S8SITA	S9SITA	S10SITA	S11SITA	S12SITA
.D=DK/NA	5	1	5	6	6
.R=RF	2	1	4		2
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	54	56	45	45	34
0.No	9527	8704	10873	10095	8899
1.Yes	2146	1883	2508	2338	2083

Value	R2CHAIRA	R3CHAIRA	R4CHAIRA	R5CHAIRA	R6CHAIRA	R7CHAIRA
.D=DK/NA	7	4	1	6	9	9
.M=Oth missing		1				
.Q=Not asked this wv	8222					
.R=RF	1	3	5	3		5
.S=Skip		35	26	23	7	10
.X=Don't do	3	49	49	50	34	44
0.No	7742	11414	13524	12143	10715	12243
1.Yes	3667	6485	7779	7354	7400	7818

Value	R8CHAIRA	R9CHAIRA	R10CHAIRA	R11CHAIRA	R12CHAIRA
.D=DK/NA	7	4	19	31	25
.R=RF	3	2	10	2	6
.S=Skip	7	8	129	18	16
.X=Don't do	34	40	27	20	19
0.No	10707	10043	13238	12466	11179
1.Yes	7711	7120	8611	8017	7502

Value	S2CHAIRA	S3CHAIRA	S4CHAIRA	S5CHAIRA	S6CHAIRA	S7CHAIRA
.D=DK/NA	6	1		3	4	4
.M=Oth missing		1				
.Q=Not asked this wv	4549					
.R=RF	1	2	1	1		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	3	27	25	21	15	23
0.No	6060	7954	9309	8321	7254	8269
1.Yes	2669	3920	4636	4379	4363	4672

Value	S8CHAIRA	S9CHAIRA	S10CHAIRA	S11CHAIRA	S12CHAIRA
.D=DK/NA	6	2	12	18	14
.R=RF	2	2	4		4
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	14	18	11	7	5
0.No	7240	6622	8569	8043	7015
1.Yes	4472	4001	4839	4416	3986

Value	R2CLIMSA	R3CLIMSA	R4CLIMSA	R5CLIMSA	R6CLIMSA	R7CLIMSA
.D=DK/NA	34	9	19	22	17	39
.Q=Not asked this wv	8222					
.R=RF	1	3	6	3		5
.S=Skip		35	26	23	7	10
.X=Don't do	89	2160	2419	2228	2009	1875
0.No	7507	9101	10957	9791	8524	9966
1.Yes	3789	6683	7957	7512	7608	8234

Value	R8CLIMSA	R9CLIMSA	R10CLIMSA	R11CLIMSA	R12CLIMSA
.D=DK/NA	34	22	60	38	41
.R=RF	5	1	10	2	5
.S=Skip	7	8	129	18	16
.X=Don't do	1318	1358	825	875	654
0.No	8808	8177	11269	10429	9181
1.Yes	8297	7651	9741	9192	8850

Value	S2CLIMSA	S3CLIMSA	S4CLIMSA	S5CLIMSA	S6CLIMSA	S7CLIMSA
.D=DK/NA	21	5	10	12	8	22
.Q=Not asked this wv	4549					
.R=RF	1	2	1	1		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	61	1166	1277	1163	1004	904
0.No	5965	6697	7957	7081	6189	7230
1.Yes	2691	4035	4726	4468	4435	4812

Value	S8CLIMSA	S9CLIMSA	S10CLIMSA	S11CLIMSA	S12CLIMSA
.D=DK/NA	16	9	29	18	21
.R=RF	3	1	5		3
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	605	627	331	343	245
0.No	6360	5744	7688	7082	6100
1.Yes	4750	4264	5382	5041	4655

Value	R2CLIM1A	R3CLIM1A	R4CLIM1A	R5CLIM1A	R6CLIM1A	R7CLIM1A
.D=DK/NA	94	6	8	13	11	20
.M=Oth missing	1					
.R=RF	1	4	6	3		5
.S=Skip		35	26	23	7	10
.X=Don't do	297	746	802	805	639	671
0.No	15709	14272	17032	15323	14161	15756
1.Yes	3540	2928	3510	3412	3347	3667

Value	R8CLIM1A	R9CLIM1A	R10CLIM1A	R11CLIM1A	R12CLIM1A
.D=DK/NA	14	10	32	21	27
.R=RF	2	1	7	3	3
.S=Skip	7	8	129	18	16
.X=Don't do	472	488	292	328	259
0.No	14350	13348	17390	16095	14607
1.Yes	3624	3362	4184	4089	3835

Value	S2CLIM1A	S3CLIM1A	S4CLIM1A	S5CLIM1A	S6CLIM1A	S7CLIM1A
.D=DK/NA	66	3	4	7	4	6
.M=Oth missing	1					
.R=RF	1	3	1	1		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	88	326	328	327	243	256
0.No	11144	10066	11833	10653	9758	10894
1.Yes	1788	1507	1805	1737	1631	1812

Value	S8CLIM1A	S9CLIM1A	S10CLIM1A	S11CLIM1A	S12CLIM1A
.D=DK/NA	7	5	9	13	11
.R=RF	2	1	3	1	3
.S=Skip	1	1	78	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	181	160	99	112	84
0.No	9788	8922	11376	10450	9184
1.Yes	1756	1557	1948	1908	1742



Value	R2STOOPA	R3STOOPA	R4STOOPA	R5STOOPA	R6STOOPA	R7STOOPA
.D=DK/NA	4	7	5	5	11	16
.Q=Not asked this wv	8222					
.R=RF	1	4	6	4		5
.S=Skip		35	26	23	7	10
.X=Don't do	4	280	361	354	300	393
0.No	7429	10503	12436	11054	9602	10836
1.Yes	3982	7162	8550	8139	8245	8869

Value	R8STOOPA	R9STOOPA	R10STOOPA	R11STOOPA	R12STOOPA
.D=DK/NA	11	8	26	30	37
.R=RF	3	1	10	4	3
.S=Skip	7	8	131	18	16
.X=Don't do	250	257	155	190	138
0.No	9439	8713	11629	10944	9685
1.Yes	8759	8230	10083	9368	8868

Value	S2STOOPA	S3STOOPA	S4STOOPA	S5STOOPA	S6STOOPA	S7STOOPA
.D=DK/NA	3	2	3	1	3	4
.Q=Not asked this wv	4549					
.R=RF	1	3	1	2		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do	3	125	183	156	117	176
0.No	5858	7439	8693	7669	6646	7561
1.Yes	2874	4336	5091	4897	4870	5227

Value	S8STOOPA	S9STOOPA	S10STOOPA	S11STOOPA	S12STOOPA
.D=DK/NA	3	3	9	17	20
.R=RF	2	1	4	2	1
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	100	97	61	62	46
0.No	6521	5861	7689	7189	6211
1.Yes	5108	4683	5671	5214	4746

Value	R2LIFTA	R3LIFTA	R4LIFTA	R5LIFTA	R6LIFTA	R7LIFTA
.D=DK/NA	10	3	6	7	7	12
.M=Oth missing	1					
.R=RF	2	4	7	5		4
.S=Skip		35	27	23	7	10
.X=Don't do	253	952	984	911	787	787
0.No	14504	13089	15686	14321	13257	14844
1.Yes	4872	3908	4674	4312	4107	4472

Value	R8LIFTA	R9LIFTA	R10LIFTA	R11LIFTA	R12LIFTA
.D=DK/NA	7	7	17	17	18
.R=RF	2	1	9	4	3
.S=Skip	7	9	131	18	16
.X=Don't do	566	541	355	349	249
0.No	13476	12449	15811	14819	13288
1.Yes	4411	4210	5711	5347	5173

Value	S2LIFTA	S3LIFTA	S4LIFTA	S5LIFTA	S6LIFTA	S7LIFTA
.D=DK/NA	7		2	1	2	2
.M=Oth missing	1					
.R=RF	2	3	1	3		2
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	86	413	426	349	295	304
0.No	10406	9406	11123	10167	9352	10431
1.Yes	2586	2083	2419	2205	1987	2232

Value	S8LIFTA	S9LIFTA	S10LIFTA	S11LIFTA	S12LIFTA
.D=DK/NA	1	1	8	8	7
.R=RF	1	1	4	2	3
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	204	187	114	109	74
0.No	9388	8501	10572	9868	8645
1.Yes	2140	1954	2736	2497	2295

Value	R2DIMEA	R3DIMEA	R4DIMEA	R5DIMEA	R6DIMEA	R7DIMEA
.D=DK/NA	11	5	13	17	18	28
.M=Oth missing	1					
.R=RF	2	3	6	4		4
.S=Skip		35	28	23		10
.X=Don't do	21	39	55	53	41	47
0.No	18373	16590	19782	18045	16764	18610
1.Yes	1234	1319	1500	1437	1335	1430

Value	R8DIMEA	R9DIMEA	R10DIMEA	R11DIMEA	R12DIMEA
.D=DK/NA	21	20	31	17	20
.R=RF	2	1	8	1	1
.S=Skip	7	9	131	18	16
.X=Don't do	26	29	25	22	12
0.No	16952	15751	20187	18888	17084
1.Yes	1461	1407	1652	1608	1614

Value	S2DIMEA	S3DIMEA	S4DIMEA	S5DIMEA	S6DIMEA	S7DIMEA
.D=DK/NA	5	1	5	4	6	8
.M=Oth missing	1					
.R=RF	2	2	1	2		2
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	6	23	26	24	16	21
0.No	12418	11170	13178	11950	10965	12240
1.Yes	656	709	761	745	649	700

Value	S8DIMEA	S9DIMEA	S10DIMEA	S11DIMEA	S12DIMEA
.D=DK/NA	5	3	13	4	10
.R=RF	1	1	3		1
.S=Skip	1	2	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	7	9	11	11	1
0.No	10985	9977	12611	11716	10261
1.Yes	736	654	796	753	751

Value	R2ARMSA	R3ARMSA	R4ARMSA	R5ARMSA	R6ARMSA	R7ARMSA
.D=DK/NA	8	4	8	13	13	14
.Q=Not asked this wv	8222					
.R=RF	1	3	6	5		5
.S=Skip		35	27	23		10
.X=Don't do		101	109	86	82	86
0.No	9972	14909	17856	16341	15024	16761
1.Yes	1439	2939	3378	3111	3039	3253

Value	R8ARMSA	R9ARMSA	R10ARMSA	R11ARMSA	R12ARMSA
.D=DK/NA	10	9	17	12	21
.R=RF	3	1	10	1	4
.S=Skip	7	8	131	18	16
.X=Don't do	74	55	43	43	31
0.No	15218	14211	17822	16778	15041
1.Yes	3157	2933	4011	3702	3634

Value	S2ARMSA	S3ARMSA	S4ARMSA	S5ARMSA	S6ARMSA	S7ARMSA
.D=DK/NA	3	2	4	6	3	4
.Q=Not asked this wv	4549					
.R=RF	1	2	1	3		3
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
.X=Don't do		50	45	36	35	36
0.No	7769	10177	12051	10971	9950	11132
1.Yes	966	1674	1870	1709	1648	1796

Value	S8ARMSA	S9ARMSA	S10ARMSA	S11ARMSA	S12ARMSA
.D=DK/NA	4	3	9	8	10
.R=RF	1	1	4		1
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	26	27	15	19	10
0.No	10010	9146	11378	10617	9245
1.Yes	1693	1468	2028	1840	1758

Value	R2PUSHA	R3PUSHA	R4PUSHA	R5PUSHA	R6PUSHA	R7PUSHA
.D=DK/NA	9	4	6	10	8	15
.M=Oth missing	1	1				
.R=RF	3	4	6	5		6
.S=Skip		35	27	23	7	10
.X=Don't do	451	1556	1677	1523	1332	1227
0.No	14115	12225	14799	13547	12373	14065
1.Yes	5063	4166	4869	4471	4445	4806

Value	R8PUSHA	R9PUSHA	R10PUSHA	R11PUSHA	R12PUSHA
.D=DK/NA	15	10	16	17	19
.R=RF	2	1	9	4	4
.S=Skip	7	8	131	18	16
.X=Don't do	892	877	517	526	318
0.No	12620	11889	15174	14181	12813
1.Yes	4933	4432	6187	5808	5577

Value	S2PUSHA	S3PUSHA	S4PUSHA	S5PUSHA	S6PUSHA	S7PUSHA
.D=DK/NA	6		3	2	6	6
.M=Oth missing	1					
.R=RF	2	3	1	3		4
.S=Skip		10	7	5	3	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.X=Don't do	171	765	818	675	580	531
0.No	10098	8757	10456	9578	8764	9887
1.Yes	2810	2380	2693	2467	2286	2543

Value	S8PUSHA	S9PUSHA	S10PUSHA	S11PUSHA	S12PUSHA
.D=DK/NA	6	5	5	10	12
.R=RF	1	1	4	1	2
.S=Skip	1	1	79	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=Don't do	365	316	191	186	103
0.No	8805	8123	10129	9393	8265
1.Yes	2557	2200	3105	2894	2642

## How Constructed

These variables recode raw data about difficulty with activities other than activities of daily living (ADLs) and instrumental activities of daily living (IADLs) as yes/no dummy variables, where "1" means some difficulty and "0" means not. These other activities include: walking several blocks (RwWALKSA), jogging one mile (RwJOG), walking one block (RwWALK1A), sitting for about 2 hours (RwSITA), getting up from a chair after sitting for long periods (RwCHAIRA), climbing several flights of stairs without resting (RwCLIMSA), climbing one flight of stairs without resting (RwCLIM1A), lifting or carrying weights over 10 pounds (RwLIFTA), stooping kneeling, or crouching (RwSTOOPA), reaching arms above shoulder level (RwARMSA), pushing or pulling large objects (RwPUSHA), and picking up a dime from the table (RwDIMEA). In the following, references to Rw[func]A apply to all these variables. Note that questions used to derive RwJOGA, RwWALK1A, RwCLIMSA, RwSITA, RwCHAIRA, RwSTOOPA, and RwARMSA are not asked in Wave 2A. These variables are set to .Q in Wave 2 for AHEAD Respondents.

We attempt to make consistent variables across waves. Because of significant differences in question wording in Wave 1, we do not include these variables for this interview year. There are other cross wave differences in the way HRS presented these questions in Waves 2H and 2A and the later waves that may introduce measurement errors in these variables. In particular, there are far fewer "don't do" responses for many activities in Wave 2H than in other waves. In addition, the

criteria used for skipping some questions was different in Wave 2A, which may influence the consistency of measurement for R2WALKSA, R2CLIM1A, and R2PUSHA.

The variable derivations for some difficulty (Rw[func]A) vary across waves because the question and responses can vary across waves. In Wave 2, if a Respondent answers "yes" to the first question ("Do you have any difficulty with ...") Rw[func]A is set to "1" for "some difficulty," regardless of how much difficulty the Respondent says s/he has in the follow-up question. From Wave 3 forward, if a Respondent answers "yes" or "can't do" to the any difficulty question, Rw[func]A is set to "1" for "some difficulty."

In all waves, if the Respondent answers "no" to the any difficulty question, Rw[func]A is set to zero. A "don't do" response is recoded to missing value .X, since the Respondent hasn't revealed whether s/he would have difficulty with the activity if s/he ever did it. If the response is "don't know" or "refuse," Rw[func]A is set to special missing codes .D or .R, respectively.

In Wave 2A, if the response to the difficulty question is "don't do," a follow-up question asks if this is because of health. If it is because of health, then R2[func]A is set to "1" for difficulty. Otherwise it is set to .X for "don't do."

In some waves, questions about activities are skipped based on answers to previous questions. In Wave 2H, if a Respondent said "no difficulty jogging a mile," then the questions about walking several blocks and walking one block are skipped. In these cases, R2WALKSA and R2WALK1A are set to "0" for "no difficulty." In Wave 2H and from Wave 3 forward, if "no difficulty" is reported for walking several blocks, the question about walking one block is skipped, and RwWALK1A is set to "0" for "no difficulty." Similarly if "no difficulty" is reported for climbing several flights of stairs, RwCLIM1A is set to "0" for "no difficulty climbing one flight of stairs." In Wave 2A, if the Respondent reported needing help to get across a room, the questions about walking several blocks, climbing a flight of stairs, and pushing large objects are skipped. In these cases, difficulty with these tasks is assumed, so R2WALKSA, R2CLIM1A, and R2PUSHA are set to "1."

The spouse variables are taken from the spouse's self-reported Wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

Some of these variables are used to construct functional limitation indices. Please see "Other Summary Indices."

Another version of these variables simply recodes the raw HRS variables. Please see the description of the Rw[func] variables under "Other functional limitations: Raw recodes" for this version.

A third version of these variables are derived for Wave 1 only (R1[func]W). They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper. These are provided for comparison to the results found in that paper. Please see "Other functional limitations: Recodes for comparison to Wallace and Herzog" for a description of the R1[func]W variables. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes described here for other waves (Rw[func]A) solely due to measurement differences in the raw data. The R1[func]W variables are not appropriate for comparison to the Rw[func]A variables in other waves.

## Cross Wave Differences in Original HRS Data

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime, but the question wording and possible answers vary. In Waves 1 and 2H, questions about activities of daily living (ADLs) are embedded among those about other functional limitations. This description applies to the other functional limitations. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please look at the answer categories at the top of page one of the booklet and tell me how difficult each activity is for you. Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...]? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes: 1 for "not at all difficult," 2 for "a little difficult," 3 for "somewhat difficult," and 4 for "very difficult/can't do." Another code is used for the "Don't do" response. The first question asks how difficult it is to run or jog a mile. The specific wording for the other functional limitations (besides ADLs) is: walk several blocks; walk one block; sit for about 2 hours; get up from a chair after sitting for long periods; climb several flights of stairs without resting; climb one flight of stairs without resting; lift or carry weights over 10 pounds like a heavy bag of groceries; stoop, kneel, or crouch; pick up a dime from the table; reach or extend your arms above shoulder level; and push or pull large objects like a living room chair. If the Respondent says s/he has "no difficulty" with running a mile, then all the questions about walking, including several blocks, one block, and across a room, are skipped. If "no difficulty" is reported for walking several blocks, then the questions about walking one block or across a room are skipped, and if "no difficulty" is reported for walking one block, the question about walking across a room is skipped. Likewise if "no difficulty" climbing several flights of stairs is reported, the question about climbing one flight of stairs is skipped.

In Wave 2H the questions and answers differ. The questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please tell me how difficult each of the following activities is for you. Exclude any difficulties that you expect to last less than three months. Do you have any difficulty with ...?" [IF YES] "Is that a little difficulty or a lot of difficulty?"

In the data the answers to the two-part question are recoded into 5-categories: 1=yes, a little difficult; 2=yes, a lot; 3=yes, DK; 4=yes, RF; 5=No; 6=doesn't do. Note that there is no "Can't do" category and that "Don't do" is not an option in the instrument. The "Doesn't do" category is likely the result of post-interview interpretation of interview comments so may be observed less frequently than in other waves, simply because of questionnaire differences. The number of "Don't do" responses is much larger in other waves for most activities. For example, only 16 and 91 say "don't do" for sitting for 2 hours and climbing several flights of stairs in Wave 2H, but 87 and 736 have this response in Wave 3H, respectively. The specific wording for these activities and the question skips for walking and climbing stairs are the same as in Wave 1.

In Wave 2A, the questions are different from other waves and the list of activities is shorter. Also the ADL questions are asked first as a group. The questions about functional difficulties besides ADLs and IADLs ask:

"Do you have any difficulty ...?" Answers may be "yes," "no," "can't do" and "don't do." [If YES]: "Is that a little, or a lot of difficulty?" [If DON'T DO to the first question]: "Is that because of a health problem?"

The specific wording for these activities is: walking several blocks; climbing one flight of stairs without resting; pushing or pulling large objects like a living room chair; lifting or carrying weights over 10 pounds like a heavy bag of groceries; and picking up a dime from the table. If the Respondent reports needing help getting across a room earlier in the interview, then the questions about walking several blocks, climbing stairs, and pushing large objects are skipped.

From Wave 3 forward, the questions about ADLs and IADLs are asked after those about the other activities described here. The questions ask:

"We need to understand difficulties people may have with various activities because of a health or physical problem. Please tell me whether you have any difficulty doing each of the everyday activities that I read to you. Exclude any difficulties that you expect to last less than three months. Because of a health problem do you have any difficulty with ...?"

The answers to the difficulty questions are simply "yes," "no," "can't do," or "don't do." The exact wording for these activities is: walking several blocks; running or jogging about a mile; across a room; walking one block; sitting for about 2 hours; getting up from a chair after sitting for long periods; climbing several flights of stairs without resting; climbing one flight of stairs without resting; stooping, kneeling, or crouching; reaching or extending your arms above shoulder level; pushing or pulling large objects like a living room chair; lifting or carrying weights over 10 pounds like a heavy bag of groceries; and picking up a dime from the table. If the Respondent reports no difficulty to walking several blocks, then the question about running a mile is asked, and the question about walking one block is skipped. The question about climbing one flight of stairs is skipped if no difficulty is reported for climbing several flights of stairs.

Beginning in Wave 7, the interviewer may also say the following if the Respondent is in a nursing home or confined to bed or a wheelchair, before asking about these activities:

"I am required to ask about all of these activities. I realize that you may not be able to do some of them, but I would appreciate it if you would just confirm that with me as we go through the list."

## HRS Variables Used

### AHEAD 1993:

B768	E33. ADL WALK HELP EVER
B852	E47. WALK SEV BLOCKS ANY DIFFICULTY
B865	E48. STAIR CLIMB ANY DIFFICULTY
B872	E49. HEAVY OBJ ANY DIFFICULTY
B879	E50. LIFT 10 LBS ANY DIFFICULTY
B882	E51. PICK UP DIME ANY DIFFICULTY

### HRS 1994:

W306	B4.RUNNING/JOGGING 1 MIL
W307	B4a.WALKING SEVERAL BLOC
W308	B4b.WALKING ONE BLOCK
W311	B4e.GETTING UP AFTER SIT
W313	B4g.CLIMBING SEVERAL FLI
W314	B4h.CLIMBING ONE FLIGHT
W315	B4j.LIFTING OR CARRYING
W316	B4k.STOOPING/KNEELING/CR
W317	B4m.PICKING UP A DIME
W319	B4p.EXTENDING ARMS ABOVE
W320	B4q.PULLING/PUSHING LARG

### AHEAD 1995:

D1834	E60.DIFF-SEV BLKS
D1837	E61.DIFF-JOG
D1840	E62.DIFF-1 BLK
D1843	E63.DIFF-SIT
D1846	E64.DIFF-CHAIR
D1849	E65.DIFF-STAIRS
D1852	E66.DIFF-1 STAIR
D1855	E67.DIFF-STOOP
D1858	E68.DIFF-REACH
D1861	E69.DIFF-PULL PUSH
D1864	E70.E70.DIFF-WEIGHTS
D1867	E71.PICK DIME

### HRS 1996:

E1858	E60.DIFF-SEV BLKS
E1861	E61.DIFF-JOG
E1864	E62.DIFF-1 BLK
E1867	E63.DIFF-SIT



E1870	E64.DIFF-CHAIR
E1873	E65.DIFF-STAIRS
E1876	E66.DIFF-1 STAIR
E1879	E67.DIFF-STOOP
E1882	E68.DIFF-REACH
E1885	E69.DIFF-PULL PUSH
E1888	E70.DIFF-WEIGHTS
E1891	E71.PICK DIME
HRS 1998:	
F2391	E60.DIFF-SEV BLKS
F2392	E61.DIFF-JOG
F2394	E62.DIFF-1 BLK
F2397	E63.DIFF-SIT
F2400	E64.DIFF-CHAIR
F2403	E65.DIFF-STAIRS
F2406	E66.DIFF-1 STAIR
F2409	E67.DIFF-STOOP
F2412	E68.DIFF-REACH
F2415	E69.DIFF-PULL PUSH
F2418	E70.DIFF-WEIGHTS
F2421	E71.PICK DIME
HRS 2000:	
G2689	E60.DIFF-SEV BLKS
G2690	E61.DIFF-JOG
G2692	E62.DIFF-1 BLK
G2695	E63.DIFF-SIT
G2698	E64.DIFF-CHAIR
G2701	E65.DIFF-STAIRS
G2704	E66.DIFF-1 STAIR
G2707	E67.DIFF-STOOP
G2710	E68.DIFF-REACH
G2713	E69.DIFF-PULL PUSH
G2716	E70.DIFF-WEIGHTS
G2719	E71.PICK DIME
HRS 2002:	
HG001	DIFFICULTY- WALKING SEVERAL BLOCKS
HG002	DIFFICULTY- JOGGING 1 MILE
HG003	DIFFICULTY- WALKING 1 BLOCK
HG004	DIFFICULTY- SITTING 2 HOURS
HG005	DIFFICULTY- GETTING UP FROM CHAIR
HG006	DIFFICULTY- CLIMBING STAIRS
HG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
HG008	DIFFICULTY- STOOPING
HG009	DIFFICULTY- REACHING ARMS
HG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
HG011	DIFFICULTY- LIFTING WEIGHTS
HG012	DIFFICULTY- PICKING UP DIME
HRS 2004:	
JG001	DIFFICULTY- WALKING SEVERAL BLOCKS
JG002	DIFFICULTY- JOGGING 1 MILE
JG003	DIFFICULTY- WALKING 1 BLOCK
JG004	DIFFICULTY- SITTING 2 HOURS
JG005	DIFFICULTY- GETTING UP FROM CHAIR
JG006	DIFFICULTY- CLIMBING STAIRS
JG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
JG008	DIFFICULTY- STOOPING
JG009	DIFFICULTY- REACHING ARMS
JG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
JG011	DIFFICULTY- LIFTING WEIGHTS

JG012                    DIFFICULTY- PICKING UP DIME

HRS 2006:

KG001                    DIFFICULTY- WALKING SEVERAL BLOCKS

KG002                    DIFFICULTY- JOGGING 1 MILE

KG003                    DIFFICULTY- WALKING 1 BLOCK

KG004                    DIFFICULTY- SITTING 2 HOURS

KG005                    DIFFICULTY- GETTING UP FROM CHAIR

KG006                    DIFFICULTY- CLIMBING STAIRS

KG007                    DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS

KG008                    DIFFICULTY- STOOPING

KG009                    DIFFICULTY- REACHING ARMS

KG010                    DIFFICULTY- PULL/PUSH LARGE OBJECTS

KG011                    DIFFICULTY- LIFTING WEIGHTS

KG012                    DIFFICULTY- PICKING UP DIME

HRS 2008:

LG001                    DIFFICULTY- WALKING SEVERAL BLOCKS

LG002                    DIFFICULTY- JOGGING 1 MILE

LG003                    DIFFICULTY- WALKING 1 BLOCK

LG004                    DIFFICULTY- SITTING 2 HOURS

LG005                    DIFFICULTY- GETTING UP FROM CHAIR

LG006                    DIFFICULTY- CLIMBING STAIRS

LG007                    DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS

LG008                    DIFFICULTY- STOOPING

LG009                    DIFFICULTY- REACHING ARMS

LG010                    DIFFICULTY- PULL/PUSH LARGE OBJECTS

LG011                    DIFFICULTY- LIFTING WEIGHTS

LG012                    DIFFICULTY- PICKING UP DIME

HRS 2010:

MG001                    DIFFICULTY- WALKING SEVERAL BLOCKS

MG002                    DIFFICULTY- JOGGING 1 MILE

MG003                    DIFFICULTY- WALKING 1 BLOCK

MG004                    DIFFICULTY- SITTING 2 HOURS

MG005                    DIFFICULTY- GETTING UP FROM CHAIR

MG006                    DIFFICULTY- CLIMBING STAIRS

MG007                    DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS

MG008                    DIFFICULTY- STOOPING

MG009                    DIFFICULTY- REACHING ARMS

MG010                    DIFFICULTY- PULL/PUSH LARGE OBJECTS

MG011                    DIFFICULTY- LIFTING WEIGHTS

MG012                    DIFFICULTY- PICKING UP DIME

HRS 2012:

NG001                    DIFFICULTY- WALKING SEVERAL BLOCKS

NG002                    DIFFICULTY- JOGGING 1 MILE

NG003                    DIFFICULTY- WALKING 1 BLOCK

NG004                    DIFFICULTY- SITTING 2 HOURS

NG005                    DIFFICULTY- GETTING UP FROM CHAIR

NG006                    DIFFICULTY- CLIMBING STAIRS

NG007                    DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS

NG008                    DIFFICULTY- STOOPING

NG009                    DIFFICULTY- REACHING ARMS

NG010                    DIFFICULTY- PULL/PUSH LARGE OBJECTS

NG011                    DIFFICULTY- LIFTING WEIGHTS

NG012                    DIFFICULTY- PICKING UP DIME

HRS 2014:

OG001                    DIFFICULTY- WALKING SEVERAL BLOCKS

OG002                    DIFFICULTY- JOGGING 1 MILE

OG003                    DIFFICULTY- WALKING 1 BLOCK

OG004                    DIFFICULTY- SITTING 2 HOURS

OG005                    DIFFICULTY- GETTING UP FROM CHAIR

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OG006	DIFFICULTY- CLIMBING STAIRS
OG007	DIFFICULTY- CLIMBING 1 FLIGHT OF STAIRS
OG008	DIFFICULTY- STOOPING
OG009	DIFFICULTY- REACHING ARMS
OG010	DIFFICULTY- PULL/PUSH LARGE OBJECTS
OG011	DIFFICULTY- LIFTING WEIGHTS
OG012	DIFFICULTY- PICKING UP DIME

### Other Functional Limitations: Recodes for comparison to Wallace and Herzog

Wave	Variable	Label	Type
1	R1WALKSW	R1WALKSW:W1 R Any Diff-Walk sev blocks	Categ
1	S1WALKSW	S1WALKSW:W1 S Any Diff-Walk sev blocks	Categ
1	R1JOGW	R1JOGW:W1 R Any Diff-Jog one mile	Categ
1	S1JOGW	S1JOGW:W1 S Any Diff-Jog one mile	Categ
1	R1WALK1W	R1WALK1W:W1 R Any Diff-Walk one block	Categ
1	S1WALK1W	S1WALK1W:W1 S Any Diff-Walk one block	Categ
1	R1SITW	R1SITW:W1 R Any Diff-Sit for 2 hours	Categ
1	S1SITW	S1SITW:W1 S Any Diff-Sit for 2 hours	Categ
1	R1CHAIRW	R1CHAIRW:W1 R Any Diff-Get up fr chair	Categ
1	S1CHAIRW	S1CHAIRW:W1 S Any Diff-Get up fr chair	Categ
1	R1CLIMSW	R1CLIMSW:W1 R Any Diff-Climb sev flt str	Categ
1	S1CLIMSW	S1CLIMSW:W1 S Any Diff-Climb sev flt str	Categ
1	R1CLIM1W	R1CLIM1W:W1 R Any Diff-Climb 1 flt stair	Categ
1	S1CLIM1W	S1CLIM1W:W1 S Any Diff-Climb 1 flt stair	Categ
1	R1STOOPW	R1STOOPW:W1 R Any Diff-Stoop/Kneel/Crouch	Categ
1	S1STOOPW	S1STOOPW:W1 S Any Diff-Stoop/Kneel/Crouch	Categ
1	R1LIFTW	R1LIFTW:W1 R Any Diff-Lift/carry 10lbs	Categ
1	S1LIFTW	S1LIFTW:W1 S Any Diff-Lift/carry 10lbs	Categ
1	R1DIMEW	R1DIMEW:W1 R Any Diff-Pick up a dime	Categ
1	S1DIMEW	S1DIMEW:W1 S Any Diff-Pick up a dime	Categ
1	R1ARMSW	R1ARMSW:W1 R Any Diff-Reach/xtnd arms up	Categ
1	S1ARMSW	S1ARMSW:W1 S Any Diff-Reach/xtnd arms up	Categ
1	R1PUSHW	R1PUSHW:W1 R Any Diff-Push/pull lg obj	Categ
1	S1PUSHW	S1PUSHW:W1 S Any Diff-Push/pull lg obj	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WALKSW	12471	0.24	0.43	0.0	1.0
S1WALKSW	9785	0.23	0.42	0.0	1.0
R1JOGW	10441	0.82	0.38	0.0	1.0
S1JOGW	8260	0.82	0.39	0.0	1.0

R1WALK1W	12586	0.10	0.31	0.0	1.0
S1WALK1W	9860	0.09	0.29	0.0	1.0
R1SITW	12586	0.29	0.45	0.0	1.0
S1SITW	9852	0.28	0.45	0.0	1.0
R1CHAIRW	12626	0.35	0.48	0.0	1.0
S1CHAIRW	9883	0.34	0.48	0.0	1.0
R1CLIMSW	12352	0.48	0.50	0.0	1.0
S1CLIMSW	9702	0.47	0.50	0.0	1.0
R1CLIM1W	12565	0.18	0.38	0.0	1.0
S1CLIM1W	9848	0.16	0.37	0.0	1.0
R1STOOPW	12579	0.42	0.49	0.0	1.0
S1STOOPW	9857	0.41	0.49	0.0	1.0
R1LIFTW	12523	0.25	0.43	0.0	1.0
S1LIFTW	9817	0.22	0.42	0.0	1.0
R1DIMEW	12643	0.06	0.24	0.0	1.0
S1DIMEW	9894	0.06	0.23	0.0	1.0
R1ARMSW	12636	0.12	0.32	0.0	1.0
S1ARMSW	9890	0.11	0.31	0.0	1.0
R1PUSHW	12489	0.26	0.44	0.0	1.0
S1PUSHW	9794	0.24	0.43	0.0	1.0

## Categorical Variable Codes

Value	R1WALKSW
.X=Don't do	181
0.No	9441
1.Yes	3030

Value	S1WALKSW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	115
0.No	7551
1.Yes	2234

Value	R1JOGW
.X=Don't do	2211
0.No	1854
1.Yes	8587

Value	S1JOGW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	1640
0.No	1495
1.Yes	6765

Value	R1WALK1W
.X=Don't do	66
0.No	11271
1.Yes	1315

Value	S1WALK1W
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	40
0.No	8949
1.Yes	911

Value	R1SITW
.X=Don't do	66
0.No	8943
1.Yes	3643

Value	S1SITW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	48
0.No	7049
1.Yes	2803

Value	R1CHAIRW
.X=Don't do	26
0.No	8152
1.Yes	4474

Value	S1CHAIRW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	17
0.No	6476
1.Yes	3407

Value	R1CLIMSW
.X=Don't do	300
0.No	6369
1.Yes	5983

Value	S1CLIMSW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	198
0.No	5188
1.Yes	4514

Value	R1CLIM1W
.X=Don't do	87
0.No	10323
1.Yes	2242

Value	S1CLIM1W
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	52
0.No	8259
1.Yes	1589

Value	R1STOOPW
.X=Don't do	73
0.No	7258
1.Yes	5321

Value	S1STOOPW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	43
0.No	5832
1.Yes	4025



Value	R1LIFTW
.X=Don't do	129
0.No	9451
1.Yes	3072

Value	S1LIFTW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	83
0.No	7633
1.Yes	2184

Value	R1DIMEW
.X=Don't do	9
0.No	11836
1.Yes	807

Value	S1DIMEW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	6
0.No	9330
1.Yes	564

Value	R1ARMSW
.X=Don't do	16
0.No	11126
1.Yes	1510

Value	S1ARMSW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	10
0.No	8838
1.Yes	1052

Value	R1PUSHW
.X=Don't do	163
0.No	9303
1.Yes	3186

Value	S1PUSHW
.U=Unmarried	2373
.V=Spouse NR	379
.X=Don't do	106
0.No	7471
1.Yes	2323

## How Constructed

These functional limitation variables are derived for Wave 1 only. They code a yes/no dummy that indicates "any difficulty" in a manner used by Wallace and Herzog in their paper (Wallace and Herzog, 1995). These variables are provided for comparison to the results found in that paper.

Wallace and Herzog recode the functional limitation variables to "1" for "any difficulty" if the Respondent answered "a little difficult," "somewhat difficult" or "very difficult/can't do." A response of "not difficult at all" is recoded to zero. This recoding scheme is applied for these variables to attempt to replicate the results reported in their paper.

If a Respondent reports "no difficulty" jogging a mile, then the questions about walking several blocks and walking one block are skipped. In these cases R1WALKSW and R1WALK1W are set to "0" for "no difficulty." Similarly if the Respondent reports "no difficulty" walking several blocks or climbing several flights of stairs, then the questions about walking one block or climbing one flight of stairs, respectively, are skipped. In these cases R1WALK1W and R1CLIM1W are set to "0" for "no difficulty" as appropriate.

The spouse variables are taken from the spouse's self-reported Wave 1 data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

There are several other versions of these variables. One version simply recodes the raw HRS variables. Please see the descriptions of these under "Other Functional Limitations: Raw recodes."

Another version recodes a yes/no dummy variable in waves other than Wave 1, but these are not comparable with the Wallace and Herzog recodes. Please see the descriptions of these under "Other Functional Limitations: Some difficulty."

Some of the Wallace and Herzog indices are also derived and include some of these measures in creating functional limitation indices. Please see "Other Summary Indices."

## Cross Wave Differences in Original HRS Data

In all waves questions ask about a number of activities, such as climbing stairs or picking up a dime, but the question wording and possible answers vary. In Waves 1 and 2H, questions about activities of daily living (ADLs) are embedded among those about other functional limitations. This description applies to the other functional limitations. The Wave 1 questions ask:

"We are interested in how much difficulty people have with various activities because of a health or physical problem. Please look at the answer categories at the top of page one of the booklet and tell me how difficult each activity is for you. Exclude any difficulties that you expect to last less than three months. How difficult is it for you to [...] ? Is it not at all difficult, a little difficult, somewhat difficult, very difficult, or something that you can't do at all?"

The Respondent can also answer "Don't do." The answers translate into 4 codes: 1 for "not at all difficult," 2 for "a little difficult," 3 for "somewhat difficult," and 4 for "very difficult/can't do." Another code is used for the "Don't do" response. The first question asks how difficult it is to run or jog a mile. The specific wording for the other functional limitations (besides ADLs) is: walk several blocks; walk one block; sit for about 2 hours; get up from a chair after sitting for long periods; climb several flights of stairs without resting; climb one flight of stairs without resting; lift or carry weights over 10 pounds like a heavy bag of groceries; stoop, kneel, or crouch; pick up a dime from the table; reach or extend your arms above shoulder level; and push or pull large objects like a living room chair. If the Respondent says s/he has no difficulty with running a mile, then all the questions about walking, including several blocks, one block, and across a room, are skipped. If "no difficulty" is reported for walking several blocks, then the questions about walking one block or across a room are skipped, and if "no difficulty" is reported for walking one block, the question about walking across a room is skipped. Likewise if "no difficulty" climbing several flights of stairs is reported, the question about climbing one flight of stairs is skipped.

Note that these variables are only derived for Wave 1. In subsequent waves, the question wording and possible answers are sufficiently different that the levels of Wave 1 codes cannot be derived from the data.

## HRS Variables Used

HRS 1992:

V304	B4A:RUN OR JOG 1 MIL:IMP
V305	B4B:WALK SEVERAL BLO:IMP
V306	B4C:WALK 1 BLOCK :IMP
V308	B4E:SIT FOR 2 HOURS :IMP
V309	B4F:GET UP AFTR SIT :IMP
V311	B4H:CLMB SVRL FLTS S:IMP
V312	B4J:1 FLT STAIRS-NO :IMP
V313	B4K:LIFT/CARRY 10 LB:IMP
V314	B4M:STOOP/KNEEL/CROU:IMP
V315	B4N:PCK UP DIME FRM :IMP
V317	B4Q:ARMS OVER SHOULD:IMP
V318	B4R:PULL/PUSH LRG OB:IMP

### ADL Summary: sum ADLs where Respondent reports any difficulty

Wave	Variable	Label	Type
2	R2ADLA	R2ADLA:W2 Some Diff-ADLs /0-5	Cont
3	R3ADLA	R3ADLA:W3 Some Diff-ADLs /0-5	Cont
4	R4ADLA	R4ADLA:W4 Some Diff-ADLs /0-5	Cont
5	R5ADLA	R5ADLA:W5 Some Diff-ADLs /0-5	Cont
6	R6ADLA	R6ADLA:W6 Some Diff-ADLs /0-5	Cont
7	R7ADLA	R7ADLA:W7 Some Diff-ADLs /0-5	Cont
8	R8ADLA	R8ADLA:W8 Some Diff-ADLs /0-5	Cont
9	R9ADLA	R9ADLA:W9 Some Diff-ADLs /0-5	Cont
10	R10ADLA	R10ADLA:W10 Some Diff-ADLs /0-5	Cont
11	R11ADLA	R11ADLA:W11 Some Diff-ADLs /0-5	Cont
12	R12ADLA	R12ADLA:W12 Some Diff-ADLs /0-5	Cont
2	S2ADLA	S2ADLA:W2 Some Diff-ADLs /0-5	Cont
3	S3ADLA	S3ADLA:W3 Some Diff-ADLs /0-5	Cont
4	S4ADLA	S4ADLA:W4 Some Diff-ADLs /0-5	Cont
5	S5ADLA	S5ADLA:W5 Some Diff-ADLs /0-5	Cont
6	S6ADLA	S6ADLA:W6 Some Diff-ADLs /0-5	Cont
7	S7ADLA	S7ADLA:W7 Some Diff-ADLs /0-5	Cont
8	S8ADLA	S8ADLA:W8 Some Diff-ADLs /0-5	Cont
9	S9ADLA	S9ADLA:W9 Some Diff-ADLs /0-5	Cont
10	S10ADLA	S10ADLA:W10 Some Diff-ADLs /0-5	Cont
11	S11ADLA	S11ADLA:W11 Some Diff-ADLs /0-5	Cont
12	S12ADLA	S12ADLA:W12 Some Diff-ADLs /0-5	Cont
2	R2ADLWA	R2ADLWA:W2 Some Diff-ADLs:Wallace /0-3	Cont
3	R3ADLWA	R3ADLWA:W3 Some Diff-ADLs:Wallace /0-3	Cont
4	R4ADLWA	R4ADLWA:W4 Some Diff-ADLs:Wallace /0-3	Cont
5	R5ADLWA	R5ADLWA:W5 Some Diff-ADLs:Wallace /0-3	Cont
6	R6ADLWA	R6ADLWA:W6 Some Diff-ADLs:Wallace /0-3	Cont
7	R7ADLWA	R7ADLWA:W7 Some Diff-ADLs:Wallace /0-3	Cont
8	R8ADLWA	R8ADLWA:W8 Some Diff-ADLs:Wallace /0-3	Cont
9	R9ADLWA	R9ADLWA:W9 Some Diff-ADLs:Wallace /0-3	Cont
10	R10ADLWA	R10ADLWA:W10 Some Diff-ADLs:Wallace /0-3	Cont
11	R11ADLWA	R11ADLWA:W11 Some Diff-ADLs:Wallace /0-3	Cont
12	R12ADLWA	R12ADLWA:W12 Some Diff-ADLs:Wallace /0-3	Cont
2	S2ADLWA	S2ADLWA:W2 Some Diff-ADLs:Wallace /0-3	Cont
3	S3ADLWA	S3ADLWA:W3 Some Diff-ADLs:Wallace /0-3	Cont
4	S4ADLWA	S4ADLWA:W4 Some Diff-ADLs:Wallace /0-3	Cont
5	S5ADLWA	S5ADLWA:W5 Some Diff-ADLs:Wallace /0-3	Cont
6	S6ADLWA	S6ADLWA:W6 Some Diff-ADLs:Wallace /0-3	Cont
7	S7ADLWA	S7ADLWA:W7 Some Diff-ADLs:Wallace /0-3	Cont
8	S8ADLWA	S8ADLWA:W8 Some Diff-ADLs:Wallace /0-3	Cont
9	S9ADLWA	S9ADLWA:W9 Some Diff-ADLs:Wallace /0-3	Cont
10	S10ADLWA	S10ADLWA:W10 Some Diff-ADLs:Wallace /0-3	Cont
11	S11ADLWA	S11ADLWA:W11 Some Diff-ADLs:Wallace /0-3	Cont
12	S12ADLWA	S12ADLWA:W12 Some Diff-ADLs:Wallace /0-3	Cont
1	R1ADLW	R1ADLW:W1 Any Diff-ADLs /0-5	Cont
1	S1ADLW	S1ADLW:W1 Any Diff-ADLs /0-5	Cont
1	R1ADLWW	R1ADLWW:W1 Any Diff-ADLs:Wallace /0-3	Cont
1	S1ADLWW	S1ADLWW:W1 Any Diff-ADLs:Wallace /0-3	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2ADLA	19641	0.23	0.74	0.0	5.0

R3ADLA	17952	0.37	0.98	0.0	5.0
R4ADLA	21356	0.37	0.99	0.0	5.0
R5ADLA	19555	0.38	1.00	0.0	5.0
R6ADLA	18158	0.39	1.01	0.0	5.0
R7ADLA	20119	0.36	0.98	0.0	5.0
R8ADLA	18460	0.39	1.01	0.0	5.0
R9ADLA	17208	0.40	1.03	0.0	5.0
R10ADLA	21902	0.41	1.04	0.0	5.0
R11ADLA	20535	0.41	1.04	0.0	5.0
R12ADLA	18731	0.43	1.07	0.0	5.0
S2ADLA	13087	0.16	0.61	0.0	5.0
S3ADLA	11902	0.25	0.80	0.0	5.0
S4ADLA	13971	0.26	0.81	0.0	5.0
S5ADLA	12725	0.26	0.81	0.0	5.0
S6ADLA	11636	0.26	0.82	0.0	5.0
S7ADLA	12971	0.24	0.79	0.0	5.0
S8ADLA	11734	0.27	0.84	0.0	5.0
S9ADLA	10644	0.26	0.80	0.0	5.0
S10ADLA	13434	0.28	0.85	0.0	5.0
S11ADLA	12484	0.28	0.87	0.0	5.0
S12ADLA	11024	0.30	0.88	0.0	5.0
R2ADLWA	19640	0.12	0.44	0.0	3.0
R3ADLWA	17950	0.22	0.62	0.0	3.0
R4ADLWA	21356	0.22	0.63	0.0	3.0
R5ADLWA	19555	0.23	0.63	0.0	3.0
R6ADLWA	18157	0.23	0.64	0.0	3.0
R7ADLWA	20118	0.22	0.62	0.0	3.0
R8ADLWA	18460	0.24	0.64	0.0	3.0
R9ADLWA	17208	0.24	0.65	0.0	3.0
R10ADLWA	21902	0.25	0.66	0.0	3.0
R11ADLWA	20535	0.24	0.66	0.0	3.0
R12ADLWA	18731	0.26	0.68	0.0	3.0
S2ADLWA	13086	0.08	0.35	0.0	3.0
S3ADLWA	11902	0.15	0.51	0.0	3.0
S4ADLWA	13971	0.16	0.52	0.0	3.0
S5ADLWA	12725	0.16	0.52	0.0	3.0
S6ADLWA	11636	0.15	0.52	0.0	3.0
S7ADLWA	12971	0.15	0.51	0.0	3.0
S8ADLWA	11734	0.16	0.53	0.0	3.0
S9ADLWA	10644	0.16	0.52	0.0	3.0
S10ADLWA	13434	0.17	0.54	0.0	3.0
S11ADLWA	12484	0.17	0.54	0.0	3.0
S12ADLWA	11024	0.18	0.56	0.0	3.0
R1ADLW	12650	0.20	0.70	0.0	5.0
S1ADLW	9898	0.17	0.63	0.0	5.0
R1ADLWW	12648	0.08	0.38	0.0	3.0
S1ADLWW	9897	0.07	0.35	0.0	3.0

## How Constructed

Two Activities of Daily Living (ADL) summaries were derived beginning in Wave 2. One uses the ADLs proposed by Wallace and Herzog in their paper (Wallace and Herzog, 1995) to define an ADL summary (RwADLWA): bathe, dress, and eat. The second includes these and adds getting in/out of bed and walking across a room (RwADLA). In all waves the "some difficulty" versions of the individual measures are used to construct these measures, i.e., RwWALKRA, RwBEDA, RwBATHA, RwDRESSA, and RWEATA. Each limitation adds one to the summary measure, that is:

$$\text{RwADLWA} = \text{sum} (\text{RwBATHA}, \text{RwDRESSA}, \text{RWEATA})$$

$$\text{RwADLA} = \text{sum} (\text{RwBATHA}, \text{RwDRESSA}, \text{RWEATA}, \text{RwBEDA}, \text{RwWALKRA})$$

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how the individual 0/1 variables (Rw[adl]A) are constructed.

Note that neither of these summary measures includes RwTOILTA, which was not available for Wave 2H Respondents.

Because of significant differences in question wording in Wave 1, we do not include these variables for this interview year. There are other cross wave differences in the way HRS presented these questions in Waves 2H and 2A and the later waves that may introduce measurement errors in these variables. In addition, the criteria used for skipping some questions changed between Wave 3 and later waves, which may also influence the consistency of measurement before Wave 4 for all ADLs except dressing.

For Wave 1, an alternate version of each measure is derived. R1ADLWW is analogous to RwADLWA and R1ADLW is analogous to RwADLA. These measures use the variables recoded for comparison to Wallace and Herzog and are provided for comparison to the results found in that paper. Each limitation adds one to the summary measure, that is:

$$\text{R1ADLWW} = \text{sum} (\text{R1BATHW}, \text{R1DRESSW}, \text{R1EATW})$$

$$\text{R1ADLW} = \text{sum} (\text{R1BATHW}, \text{R1DRESSW}, \text{R1EATW}, \text{R1BEDW}, \text{R1WALKRW})$$

Please see "Activities of Daily Living (ADLs): Recodes for Comparison to Wallace and Herzog" for a description of how these 0/1 variables (Rw[adl]W) are constructed. Note that the Wallace and Herzog variables result in more limitation than the 0/1 recodes for other waves (Rw[adl]A) solely due to measurement differences in the raw data. The R1ADLWW and R1ADLWA variables are not appropriate for comparison to the RwADLA and RwADLWA variables in other waves.

The spouse variables are taken from the spouse's self-reported wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

See also IADL Summary and Other Summary Indices.

## Cross Wave Differences in Original HRS Data

Please see "Cross Wave Differences in Original HRS Data" for the "Activities of daily living (ADLs): Some difficulty."

### IADL Summary: sum IADLs where Respondent reports any difficulty

Wave	Variable	Label	Type
1	R1IADLWW	R1IADLWW:W1 Any Diff-IADLs:Wallace /0-3	Cont
1	S1IADLWW	S1IADLWW:W1 Any Diff-IADLs:Wallace /0-3	Cont
2	R2IADLA	R2IADLA:W2 Some Diff-IADLs: W2 Onwards /0-3	Cont
3	R3IADLA	R3IADLA:W3 Some Diff-IADLs: W2 Onwards /0-3	Cont
4	R4IADLA	R4IADLA:W4 Some Diff-IADLs: W2 Onwards /0-3	Cont
5	R5IADLA	R5IADLA:W5 Some Diff-IADLs: W2 Onwards /0-3	Cont
6	R6IADLA	R6IADLA:W6 Some Diff-IADLs: W2 Onwards /0-3	Cont
7	R7IADLA	R7IADLA:W7 Some Diff-IADLs: W2 Onwards /0-3	Cont
8	R8IADLA	R8IADLA:W8 Some Diff-IADLs: W2 Onwards /0-3	Cont
9	R9IADLA	R9IADLA:W9 Some Diff-IADLs: W2 Onwards /0-3	Cont
10	R10IADLA	R10IADLA:W10 Some Diff-IADLs: W2 Onwards /0-3	Cont
11	R11IADLA	R11IADLA:W11 Some Diff-IADLs: W2 Onwards /0-3	Cont
12	R12IADLA	R12IADLA:W12 Some Diff-IADLs: W2 Onwards /0-3	Cont
2	S2IADLA	S2IADLA:W2 Some Diff-IADLs: W2 Onwards /0-3	Cont
3	S3IADLA	S3IADLA:W3 Some Diff-IADLs: W2 Onwards /0-3	Cont
4	S4IADLA	S4IADLA:W4 Some Diff-IADLs: W2 Onwards /0-3	Cont
5	S5IADLA	S5IADLA:W5 Some Diff-IADLs: W2 Onwards /0-3	Cont
6	S6IADLA	S6IADLA:W6 Some Diff-IADLs: W2 Onwards /0-3	Cont
7	S7IADLA	S7IADLA:W7 Some Diff-IADLs: W2 Onwards /0-3	Cont
8	S8IADLA	S8IADLA:W8 Some Diff-IADLs: W2 Onwards /0-3	Cont
9	S9IADLA	S9IADLA:W9 Some Diff-IADLs: W2 Onwards /0-3	Cont
10	S10IADLA	S10IADLA:W10 Some Diff-IADLs: W2 Onwards /0-3	Cont
11	S11IADLA	S11IADLA:W11 Some Diff-IADLs: W2 Onwards /0-3	Cont
12	S12IADLA	S12IADLA:W12 Some Diff-IADLs: W2 Onwards /0-3	Cont
2	R2IADLZA	R2IADLZA:W2 Some Diff-IADLs: W2 Onwards /0-5	Cont
3	R3IADLZA	R3IADLZA:W3 Some Diff-IADLs: W2 Onwards /0-5	Cont
4	R4IADLZA	R4IADLZA:W4 Some Diff-IADLs: W2 Onwards /0-5	Cont
5	R5IADLZA	R5IADLZA:W5 Some Diff-IADLs: W2 Onwards /0-5	Cont
6	R6IADLZA	R6IADLZA:W6 Some Diff-IADLs: W2 Onwards /0-5	Cont
7	R7IADLZA	R7IADLZA:W7 Some Diff-IADLs: W2 Onwards /0-5	Cont
8	R8IADLZA	R8IADLZA:W8 Some Diff-IADLs: W2 Onwards /0-5	Cont
9	R9IADLZA	R9IADLZA:W9 Some Diff-IADLs: W2 Onwards /0-5	Cont
10	R10IADLZA	R10IADLZA:W10 Some Diff-IADLs: W2 Onwards /0-5	Cont
11	R11IADLZA	R11IADLZA:W11 Some Diff-IADLs: W2 Onwards /0-5	Cont
12	R12IADLZA	R12IADLZA:W12 Some Diff-IADLs: W2 Onwards /0-5	Cont
2	S2IADLZA	S2IADLZA:W2 Some Diff-IADLs: W2 Onwards /0-5	Cont
3	S3IADLZA	S3IADLZA:W3 Some Diff-IADLs: W2 Onwards /0-5	Cont
4	S4IADLZA	S4IADLZA:W4 Some Diff-IADLs: W2 Onwards /0-5	Cont
5	S5IADLZA	S5IADLZA:W5 Some Diff-IADLs: W2 Onwards /0-5	Cont
6	S6IADLZA	S6IADLZA:W6 Some Diff-IADLs: W2 Onwards /0-5	Cont
7	S7IADLZA	S7IADLZA:W7 Some Diff-IADLs: W2 Onwards /0-5	Cont
8	S8IADLZA	S8IADLZA:W8 Some Diff-IADLs: W2 Onwards /0-5	Cont
9	S9IADLZA	S9IADLZA:W9 Some Diff-IADLs: W2 Onwards /0-5	Cont
10	S10IADLZA	S10IADLZA:W10 Some Diff-IADLs: W2 Onwards /0-5	Cont
11	S11IADLZA	S11IADLZA:W11 Some Diff-IADLs: W2 Onwards /0-5	Cont
12	S12IADLZA	S12IADLZA:W12 Some Diff-IADLs: W2 Onwards /0-5	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IADLWW	12533	0.52	0.77	0.0	3.0
S1IADLWW	9834	0.50	0.75	0.0	3.0
R2IADLA	19638	0.14	0.49	0.0	3.0

R3IADLA	17948	0.16	0.54	0.0	3.0
R4IADLA	21347	0.16	0.55	0.0	3.0
R5IADLA	19550	0.16	0.56	0.0	3.0
R6IADLA	18156	0.18	0.58	0.0	3.0
R7IADLA	20115	0.16	0.55	0.0	3.0
R8IADLA	18457	0.18	0.58	0.0	3.0
R9IADLA	17204	0.18	0.59	0.0	3.0
R10IADLA	21893	0.19	0.59	0.0	3.0
R11IADLA	20534	0.19	0.59	0.0	3.0
R12IADLA	18729	0.20	0.61	0.0	3.0
S2IADLA	13084	0.12	0.43	0.0	3.0
S3IADLA	11900	0.11	0.45	0.0	3.0
S4IADLA	13968	0.11	0.45	0.0	3.0
S5IADLA	12722	0.10	0.43	0.0	3.0
S6IADLA	11636	0.11	0.45	0.0	3.0
S7IADLA	12969	0.10	0.44	0.0	3.0
S8IADLA	11731	0.11	0.46	0.0	3.0
S9IADLA	10641	0.11	0.46	0.0	3.0
S10IADLA	13429	0.13	0.48	0.0	3.0
S11IADLA	12483	0.13	0.48	0.0	3.0
S12IADLA	11023	0.14	0.49	0.0	3.0
R2IADLZA	8221	0.46	1.09	0.0	5.0
R3IADLZA	17951	0.33	0.95	0.0	5.0
R4IADLZA	21348	0.33	0.95	0.0	5.0
R5IADLZA	19551	0.34	0.98	0.0	5.0
R6IADLZA	18157	0.36	1.02	0.0	5.0
R7IADLZA	20116	0.33	0.96	0.0	5.0
R8IADLZA	18459	0.36	1.01	0.0	5.0
R9IADLZA	17205	0.37	1.02	0.0	5.0
R10IADLZA	21894	0.38	1.00	0.0	5.0
R11IADLZA	20534	0.38	1.02	0.0	5.0
R12IADLZA	18729	0.40	1.04	0.0	5.0
S2IADLZA	4348	0.36	0.98	0.0	5.0
S3IADLZA	11902	0.22	0.77	0.0	5.0
S4IADLZA	13969	0.22	0.77	0.0	5.0
S5IADLZA	12723	0.22	0.77	0.0	5.0
S6IADLZA	11636	0.22	0.78	0.0	5.0
S7IADLZA	12970	0.21	0.73	0.0	5.0
S8IADLZA	11733	0.24	0.79	0.0	5.0
S9IADLZA	10641	0.23	0.77	0.0	5.0
S10IADLZA	13430	0.26	0.81	0.0	5.0
S11IADLZA	12483	0.26	0.82	0.0	5.0
S12IADLZA	11023	0.27	0.83	0.0	5.0

## How Constructed

Several summary measures for Instrumental Activities of Daily Living (IADLs) are included in an attempt to provide some consistency across waves. The HRS data does not include the same activities in each wave. The most frequently available IADL-like activity is "using a map," which is available for all waves except Wave 2A.

The usual IADLs were not asked until Wave 2. In Wave 1 there are measures like reading a map, using a calculator, and using a microwave that may serve this purpose. These are the activities that are assumed to have been used by Wallace



and Herzog in their paper (Wallace and Herzog, 1995). Using a calculator appears in Wave 2H, but is then dropped in Wave 2A and from Wave 3 on. Using a microwave is only asked in Wave 1. This summary measure is included for Wave 1 as R1IADLWW. R1IADLWW uses the variables recoded for comparison to Wallace and Herzog and is provided for comparison to the results found in that paper. Each limitation adds one to the summary measure, that is:

$$R1IADLWW = \text{sum}(R1MAPW, R1CALCW, R1MCWW)$$

Please see "Instrumental Activities of Daily Living (IADLs): Recodes for Comparison to Wallace and Herzog" for a description of how the individual variables for R1IADLWW are derived.

Two other IADL summary measures are included. One (RwIADLA) summarizes the commonly used IADLs available from Wave 2 forward: using the phone, managing money, and taking medications. The second (RwIADLZA) summarizes these tasks and adds commonly used IADLs available in Wave 2A and from Wave 3 forward: shopping for groceries and preparing hot meals. All of these summary measures use the "some difficulty" versions of the individual items. Each limitation adds one to the summary measure, that is:

$$RwIADLA = \text{sum}(RwPHONEA, RwMONEYA, RwMEDSA)$$

$$RwIADLZA = \text{sum}(RwPHONEA, RwMONEYA, RwMEDSA, RwSHOPA, RwMEALA)$$

R2IADLZA is available only for AHEAD Respondents in Wave 2 (2A). For HRS Respondents, R2IADLZA is set to .Q to indicate that this measure is not available.

Please see "Instrumental Activities of Daily Living (IADLs): Some difficulty" for a description of how the individual 0/1 variables are constructed.

The spouse variables are taken from the spouse's self-reported wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

See also ADL Summary and Other Summary Indices.

### **Cross Wave Differences in Original HRS Data**

Please see "Cross Wave Differences in Original HRS Data" for the "Instrumental activities of daily living (IADLs): Some difficulty."

### Other Summary Indices: Mobility, Large Muscle, Gross Fine Motor Activities

Wave	Variable	Label	Type
2	R2MOBILA	R2MOBILA:W2 Some Diff-Mobility /0-5	Cont
3	R3MOBILA	R3MOBILA:W3 Some Diff-Mobility /0-5	Cont
4	R4MOBILA	R4MOBILA:W4 Some Diff-Mobility /0-5	Cont
5	R5MOBILA	R5MOBILA:W5 Some Diff-Mobility /0-5	Cont
6	R6MOBILA	R6MOBILA:W6 Some Diff-Mobility /0-5	Cont
7	R7MOBILA	R7MOBILA:W7 Some Diff-Mobility /0-5	Cont
8	R8MOBILA	R8MOBILA:W8 Some Diff-Mobility /0-5	Cont
9	R9MOBILA	R9MOBILA:W9 Some Diff-Mobility /0-5	Cont
10	R10MOBILA	R10MOBILA:W10 Some Diff-Mobility /0-5	Cont
11	R11MOBILA	R11MOBILA:W11 Some Diff-Mobility /0-5	Cont
12	R12MOBILA	R12MOBILA:W12 Some Diff-Mobility /0-5	Cont
2	S2MOBILA	S2MOBILA:W2 Some Diff-Mobility /0-5	Cont
3	S3MOBILA	S3MOBILA:W3 Some Diff-Mobility /0-5	Cont
4	S4MOBILA	S4MOBILA:W4 Some Diff-Mobility /0-5	Cont
5	S5MOBILA	S5MOBILA:W5 Some Diff-Mobility /0-5	Cont
6	S6MOBILA	S6MOBILA:W6 Some Diff-Mobility /0-5	Cont
7	S7MOBILA	S7MOBILA:W7 Some Diff-Mobility /0-5	Cont
8	S8MOBILA	S8MOBILA:W8 Some Diff-Mobility /0-5	Cont
9	S9MOBILA	S9MOBILA:W9 Some Diff-Mobility /0-5	Cont
10	S10MOBILA	S10MOBILA:W10 Some Diff-Mobility /0-5	Cont
11	S11MOBILA	S11MOBILA:W11 Some Diff-Mobility /0-5	Cont
12	S12MOBILA	S12MOBILA:W12 Some Diff-Mobility /0-5	Cont
2	R2LGMUSA	R2LGMUSA:W2 Some Diff-Large Muscle /0-4	Cont
3	R3LGMUSA	R3LGMUSA:W3 Some Diff-Large Muscle /0-4	Cont
4	R4LGMUSA	R4LGMUSA:W4 Some Diff-Large Muscle /0-4	Cont
5	R5LGMUSA	R5LGMUSA:W5 Some Diff-Large Muscle /0-4	Cont
6	R6LGMUSA	R6LGMUSA:W6 Some Diff-Large Muscle /0-4	Cont
7	R7LGMUSA	R7LGMUSA:W7 Some Diff-Large Muscle /0-4	Cont
8	R8LGMUSA	R8LGMUSA:W8 Some Diff-Large Muscle /0-4	Cont
9	R9LGMUSA	R9LGMUSA:W9 Some Diff-Large Muscle /0-4	Cont
10	R10LGMUSA	R10LGMUSA:W10 Some Diff-Large Muscle /0-4	Cont
11	R11LGMUSA	R11LGMUSA:W11 Some Diff-Large Muscle /0-4	Cont
12	R12LGMUSA	R12LGMUSA:W12 Some Diff-Large Muscle /0-4	Cont
2	S2LGMUSA	S2LGMUSA:W2 Some Diff-Large Muscle /0-4	Cont
3	S3LGMUSA	S3LGMUSA:W3 Some Diff-Large Muscle /0-4	Cont
4	S4LGMUSA	S4LGMUSA:W4 Some Diff-Large Muscle /0-4	Cont
5	S5LGMUSA	S5LGMUSA:W5 Some Diff-Large Muscle /0-4	Cont
6	S6LGMUSA	S6LGMUSA:W6 Some Diff-Large Muscle /0-4	Cont
7	S7LGMUSA	S7LGMUSA:W7 Some Diff-Large Muscle /0-4	Cont
8	S8LGMUSA	S8LGMUSA:W8 Some Diff-Large Muscle /0-4	Cont
9	S9LGMUSA	S9LGMUSA:W9 Some Diff-Large Muscle /0-4	Cont
10	S10LGMUSA	S10LGMUSA:W10 Some Diff-Large Muscle /0-4	Cont
11	S11LGMUSA	S11LGMUSA:W11 Some Diff-Large Muscle /0-4	Cont
12	S12LGMUSA	S12LGMUSA:W12 Some Diff-Large Muscle /0-4	Cont
2	R2GROSSA	R2GROSSA:W2 Walk1/R, Clim1, Bed, Bath/0-5	Cont
3	R3GROSSA	R3GROSSA:W3 Walk1/R, Clim1, Bed, Bath/0-5	Cont
4	R4GROSSA	R4GROSSA:W4 Walk1/R, Clim1, Bed, Bath/0-5	Cont
5	R5GROSSA	R5GROSSA:W5 Walk1/R, Clim1, Bed, Bath/0-5	Cont
6	R6GROSSA	R6GROSSA:W6 Walk1/R, Clim1, Bed, Bath/0-5	Cont
7	R7GROSSA	R7GROSSA:W7 Walk1/R, Clim1, Bed, Bath/0-5	Cont
8	R8GROSSA	R8GROSSA:W8 Walk1/R, Clim1, Bed, Bath/0-5	Cont
9	R9GROSSA	R9GROSSA:W9 Walk1/R, Clim1, Bed, Bath/0-5	Cont
10	R10GROSSA	R10GROSSA:W10 Walk1/R, Clim1, Bed, Bath/0-5	Cont
11	R11GROSSA	R11GROSSA:W11 Walk1/R, Clim1, Bed, Bath/0-5	Cont
12	R12GROSSA	R12GROSSA:W12 Walk1/R, Clim1, Bed, Bath/0-5	Cont
2	S2GROSSA	S2GROSSA:W2 Walk1/R, Clim1, Bed, Bath/0-5	Cont
3	S3GROSSA	S3GROSSA:W3 Walk1/R, Clim1, Bed, Bath/0-5	Cont
4	S4GROSSA	S4GROSSA:W4 Walk1/R, Clim1, Bed, Bath/0-5	Cont
5	S5GROSSA	S5GROSSA:W5 Walk1/R, Clim1, Bed, Bath/0-5	Cont
6	S6GROSSA	S6GROSSA:W6 Walk1/R, Clim1, Bed, Bath/0-5	Cont
7	S7GROSSA	S7GROSSA:W7 Walk1/R, Clim1, Bed, Bath/0-5	Cont

8	S8GROSSA	S8GROSSA:W8 Walk1/R, Clim1, Bed, Bath/0-5	Cont
9	S9GROSSA	S9GROSSA:W9 Walk1/R, Clim1, Bed, Bath/0-5	Cont
10	S10GROSSA	S10GROSSA:W10 Walk1/R, Clim1, Bed, Bath/0-5	Cont
11	S11GROSSA	S11GROSSA:W11 Walk1/R, Clim1, Bed, Bath/0-5	Cont
12	S12GROSSA	S12GROSSA:W12 Walk1/R, Clim1, Bed, Bath/0-5	Cont
2	R2FINEA	R2FINEA:W2 Dime/Eat/Dress /0-3	Cont
3	R3FINEA	R3FINEA:W3 Dime/Eat/Dress /0-3	Cont
4	R4FINEA	R4FINEA:W4 Dime/Eat/Dress /0-3	Cont
5	R5FINEA	R5FINEA:W5 Dime/Eat/Dress /0-3	Cont
6	R6FINEA	R6FINEA:W6 Dime/Eat/Dress /0-3	Cont
7	R7FINEA	R7FINEA:W7 Dime/Eat/Dress /0-3	Cont
8	R8FINEA	R8FINEA:W8 Dime/Eat/Dress /0-3	Cont
9	R9FINEA	R9FINEA:W9 Dime/Eat/Dress /0-3	Cont
10	R10FINEA	R10FINEA:W10 Dime/Eat/Dress /0-3	Cont
11	R11FINEA	R11FINEA:W11 Dime/Eat/Dress /0-3	Cont
12	R12FINEA	R12FINEA:W12 Dime/Eat/Dress /0-3	Cont
2	S2FINEA	S2FINEA:W2 Dime/Eat/Dress /0-3	Cont
3	S3FINEA	S3FINEA:W3 Dime/Eat/Dress /0-3	Cont
4	S4FINEA	S4FINEA:W4 Dime/Eat/Dress /0-3	Cont
5	S5FINEA	S5FINEA:W5 Dime/Eat/Dress /0-3	Cont
6	S6FINEA	S6FINEA:W6 Dime/Eat/Dress /0-3	Cont
7	S7FINEA	S7FINEA:W7 Dime/Eat/Dress /0-3	Cont
8	S8FINEA	S8FINEA:W8 Dime/Eat/Dress /0-3	Cont
9	S9FINEA	S9FINEA:W9 Dime/Eat/Dress /0-3	Cont
10	S10FINEA	S10FINEA:W10 Dime/Eat/Dress /0-3	Cont
11	S11FINEA	S11FINEA:W11 Dime/Eat/Dress /0-3	Cont
12	S12FINEA	S12FINEA:W12 Dime/Eat/Dress /0-3	Cont
1	R1MOBILW	R1MOBILW:W1 Any Diff-Mobility /0-5	Cont
1	S1MOBILW	S1MOBILW:W1 Any Diff-Mobility /0-5	Cont
1	R1LGMUSW	R1LGMUSW:W1 Any Diff-Large Muscle /0-4	Cont
1	S1LGMUSW	S1LGMUSW:W1 Any Diff-Large Muscle /0-4	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2MOBILA	11407	0.69	1.20	0.0	5.0
R3MOBILA	17944	1.01	1.44	0.0	5.0
R4MOBILA	21352	1.01	1.46	0.0	5.0
R5MOBILA	19542	1.07	1.49	0.0	5.0
R6MOBILA	18151	1.16	1.52	0.0	5.0
R7MOBILA	20107	1.11	1.49	0.0	5.0
R8MOBILA	18454	1.21	1.54	0.0	5.0
R9MOBILA	17205	1.22	1.55	0.0	5.0
R10MOBILA	21903	1.18	1.54	0.0	5.0
R11MOBILA	20535	1.21	1.56	0.0	5.0
R12MOBILA	18731	1.27	1.57	0.0	5.0
S2MOBILA	8729	0.62	1.12	0.0	5.0
S3MOBILA	11900	0.83	1.31	0.0	5.0
S4MOBILA	13970	0.83	1.32	0.0	5.0
S5MOBILA	12723	0.88	1.35	0.0	5.0
S6MOBILA	11634	0.95	1.38	0.0	5.0
S7MOBILA	12968	0.91	1.35	0.0	5.0
S8MOBILA	11733	0.99	1.40	0.0	5.0
S9MOBILA	10645	0.98	1.39	0.0	5.0
S10MOBILA	13434	0.96	1.39	0.0	5.0

S11MOBILA	12484	1.00	1.42	0.0	5.0
S12MOBILA	11024	1.04	1.43	0.0	5.0
R2LGMUSA	11419	1.06	1.28	0.0	4.0
R3LGMUSA	17946	1.18	1.31	0.0	4.0
R4LGMUSA	21345	1.17	1.31	0.0	4.0
R5LGMUSA	19545	1.20	1.31	0.0	4.0
R6LGMUSA	18151	1.30	1.32	0.0	4.0
R7LGMUSA	20102	1.26	1.32	0.0	4.0
R8LGMUSA	18457	1.36	1.34	0.0	4.0
R9LGMUSA	17203	1.34	1.33	0.0	4.0
R10LGMUSA	21898	1.34	1.38	0.0	4.0
R11LGMUSA	20533	1.34	1.39	0.0	4.0
R12LGMUSA	18728	1.38	1.41	0.0	4.0
S2LGMUSA	8738	1.00	1.23	0.0	4.0
S3LGMUSA	11899	1.07	1.28	0.0	4.0
S4LGMUSA	13964	1.06	1.27	0.0	4.0
S5LGMUSA	12723	1.09	1.27	0.0	4.0
S6LGMUSA	11635	1.18	1.28	0.0	4.0
S7LGMUSA	12962	1.14	1.28	0.0	4.0
S8LGMUSA	11732	1.22	1.30	0.0	4.0
S9LGMUSA	10642	1.20	1.28	0.0	4.0
S10LGMUSA	13431	1.20	1.34	0.0	4.0
S11LGMUSA	12483	1.19	1.34	0.0	4.0
S12LGMUSA	11023	1.22	1.35	0.0	4.0
R2GROSSA	11420	0.27	0.83	0.0	5.0
R3GROSSA	17954	0.52	1.13	0.0	5.0
R4GROSSA	21359	0.53	1.15	0.0	5.0
R5GROSSA	19555	0.55	1.17	0.0	5.0
R6GROSSA	18158	0.59	1.19	0.0	5.0
R7GROSSA	20118	0.55	1.16	0.0	5.0
R8GROSSA	18462	0.60	1.20	0.0	5.0
R9GROSSA	17209	0.61	1.21	0.0	5.0
R10GROSSA	21906	0.59	1.21	0.0	5.0
R11GROSSA	20536	0.61	1.22	0.0	5.0
R12GROSSA	18732	0.64	1.24	0.0	5.0
S2GROSSA	8739	0.23	0.75	0.0	5.0
S3GROSSA	11904	0.37	0.95	0.0	5.0
S4GROSSA	13972	0.38	0.97	0.0	5.0
S5GROSSA	12725	0.40	0.99	0.0	5.0
S6GROSSA	11636	0.41	1.00	0.0	5.0
S7GROSSA	12970	0.39	0.97	0.0	5.0
S8GROSSA	11734	0.43	1.01	0.0	5.0
S9GROSSA	10645	0.42	0.99	0.0	5.0
S10GROSSA	13436	0.42	1.01	0.0	5.0
S11GROSSA	12484	0.45	1.04	0.0	5.0
S12GROSSA	11024	0.46	1.05	0.0	5.0
R2FINEA	19641	0.13	0.42	0.0	3.0
R3FINEA	17953	0.22	0.57	0.0	3.0
R4FINEA	21356	0.21	0.57	0.0	3.0
R5FINEA	19555	0.22	0.57	0.0	3.0
R6FINEA	18157	0.22	0.57	0.0	3.0
R7FINEA	20119	0.21	0.56	0.0	3.0
R8FINEA	18461	0.23	0.59	0.0	3.0
R9FINEA	17208	0.24	0.59	0.0	3.0

R10FINEA	21902	0.24	0.59	0.0	3.0
R11FINEA	20536	0.23	0.60	0.0	3.0
R12FINEA	18730	0.26	0.62	0.0	3.0
S2FINEA	13087	0.09	0.36	0.0	3.0
S3FINEA	11903	0.16	0.50	0.0	3.0
S4FINEA	13971	0.16	0.49	0.0	3.0
S5FINEA	12725	0.17	0.50	0.0	3.0
S6FINEA	11636	0.16	0.48	0.0	3.0
S7FINEA	12971	0.15	0.47	0.0	3.0
S8FINEA	11734	0.18	0.51	0.0	3.0
S9FINEA	10644	0.17	0.49	0.0	3.0
S10FINEA	13434	0.18	0.51	0.0	3.0
S11FINEA	12484	0.18	0.52	0.0	3.0
S12FINEA	11024	0.19	0.54	0.0	3.0
R1MOBILW	12641	1.04	1.36	0.0	5.0
S1MOBILW	9891	0.97	1.31	0.0	5.0
R1LGMUSW	12649	1.31	1.34	0.0	4.0
S1LGMUSW	9897	1.27	1.31	0.0	4.0

## How Constructed

Several summary measures for functional limitations are included in an attempt to provide some consistency across waves. Wallace and Herzog present summary measures in their paper (Wallace and Herzog, 1995) which include measures for ADLs, mobility, large muscle, and IADLs. For ADL and IADL summary measures, please see "ADL Summary" and "IADL Summary." The mobility and large muscle indices are included here. After examining individual measures, two groupings of the most consistent cross wave measures were added, gross and fine motor summaries.

The large muscle index uses the sitting for 2 hrs, getting up from a chair, stooping, kneeling or crouching, and pushing or pulling large objects activities. The mobility index uses the walking one block, walking several blocks, walking across a room, climbing one flight of stairs, and climbing several flights of stairs activities. The fine motor index uses the picking up a dime, eating, and dressing activities. The gross motor index uses the walking one block, walking across a room, climbing one flight of stairs, getting in or out of bed, and bathing activities. In all waves the "some difficulty" versions of the individual measures are used to construct these measures. Each limitation adds one to the summary measure, that is:

$RwMOBILA = \text{sum}(RwWALKSA, RwWALK1A, RwWALKRA, RwCLIMSA, RwCLIM1A)$

$RwLGMUSA = \text{sum}(RwSITA, RwCHAIRA, RwSTOOPA, RwPUSHA)$

$RwGROSSA = \text{sum}(RwWALK1A, RwWALKRA, RwCLIM1A, RwBEDA, RwBATHA)$

$RwFINEA = \text{sum}(RwDIMEA, RWEATA, RWDRESSA)$

In Wave 2A, there is no R2WALK1A for R2GROSSA so we set .Q to R2GROSSA.

In Wave 2A, there are no R2WALK1A and R2CLIMSA so we set R2MOBILA and R2GROSSA to .Q for AHEAD Respondents in Wave 2. There are no R2SITA, R2CHAIRA and R2STOOPA so we set R2LGMUSA to .Q as well.

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how R<sub>w</sub>WALKRA, R<sub>w</sub>BEDA, R<sub>w</sub>BATHA, R<sub>w</sub>EATA, and R<sub>w</sub>DRESSA are derived. Please see "Other Functional Limitations: Some difficulty" for a description of how the other individual 0/1 variables are constructed.

For Wave 1 only, alternate versions of two of these measures are derived. R1MOBILW is analogous to R<sub>w</sub>MOBILA and R1LGMUSW is analogous to R<sub>w</sub>LGMUSA. These measures use the variables recoded for comparison to Wallace and Herzog, and are provided for comparison to the results found in that paper. Each limitation adds one to the summary measure, that is:

R1MOBILW= sum (R1WALKSW, R1WALK1W, R1WALKRW, R1CLIMSW, R1CLIM1W)

R1LGMUSW= sum (R1SITW, R1CHAIRW, R1STOOPW, R1PUSHW)

Please see "Activities of Daily Living (ADLs): Recodes for Comparison to Wallace and Herzog" for a description of how R<sub>w</sub>WALKRW is derived. Please see "Other Functional Limitations: Recodes for Comparison to Wallace and Herzog" for how the other individual 0/1 variables are constructed.

The spouse variables are taken from the spouse's self-reported wave "w" data. If the Respondent is not married, spouse variables are set to .U=unmarried. If the Respondent's spouse did not respond, then the variables are set to .V=Spouse is non-response.

### **Cross Wave Differences in Original HRS Data**

In Wave 2A, there are no R2WALK1A and R2CLIMSA so we set R2MOBILA and R2GROSSA to .Q for AHEAD Respondents in Wave 2. There are no R2SITA, R2CHAIRA and R2STOOPA, so we set R2LGMUSA to .Q as well.

Please see "Cross Wave Differences in Original HRS Data" for the "Activities of daily living (ADLs): Some difficulty" and for "Other Functional Limitations: Some difficulty."

<b>Mental health (CESD score)</b>
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Wave	Variable	Label	Type
1	R1DEPREX	R1DEPREX:W1 CESD: Felt depressed-raw	Categ
1	S1DEPREX	S1DEPREX:W1 CESD: Felt depressed-raw	Categ
2	R2DEPRES	R2DEPRES:W2 CESD: Felt depressed	Categ
3	R3DEPRES	R3DEPRES:W3 CESD: Felt depressed	Categ
4	R4DEPRES	R4DEPRES:W4 CESD: Felt depressed	Categ
5	R5DEPRES	R5DEPRES:W5 CESD: Felt depressed	Categ
6	R6DEPRES	R6DEPRES:W6 CESD: Felt depressed	Categ
7	R7DEPRES	R7DEPRES:W7 CESD: Felt depressed	Categ
8	R8DEPRES	R8DEPRES:W8 CESD: Felt depressed	Categ
9	R9DEPRES	R9DEPRES:W9 CESD: Felt depressed	Categ
10	R10DEPRES	R10DEPRES:W10 CESD: Felt depressed	Categ
11	R11DEPRES	R11DEPRES:W11 CESD: Felt depressed	Categ
12	R12DEPRES	R12DEPRES:W12 CESD: Felt depressed	Categ
2	S2DEPRES	S2DEPRES:W2 CESD: Felt depressed	Categ
3	S3DEPRES	S3DEPRES:W3 CESD: Felt depressed	Categ
4	S4DEPRES	S4DEPRES:W4 CESD: Felt depressed	Categ
5	S5DEPRES	S5DEPRES:W5 CESD: Felt depressed	Categ
6	S6DEPRES	S6DEPRES:W6 CESD: Felt depressed	Categ
7	S7DEPRES	S7DEPRES:W7 CESD: Felt depressed	Categ
8	S8DEPRES	S8DEPRES:W8 CESD: Felt depressed	Categ
9	S9DEPRES	S9DEPRES:W9 CESD: Felt depressed	Categ
10	S10DEPRES	S10DEPRES:W10 CESD: Felt depressed	Categ
11	S11DEPRES	S11DEPRES:W11 CESD: Felt depressed	Categ
12	S12DEPRES	S12DEPRES:W12 CESD: Felt depressed	Categ
1	R1EFFORX	R1EFFORX:W1 CESD: Everything an effort-raw	Categ
1	S1EFFORX	S1EFFORX:W1 CESD: Everything an effort-raw	Categ
2	R2EFFORT	R2EFFORT:W2 CESD: Everything an effort	Categ
3	R3EFFORT	R3EFFORT:W3 CESD: Everything an effort	Categ
4	R4EFFORT	R4EFFORT:W4 CESD: Everything an effort	Categ
5	R5EFFORT	R5EFFORT:W5 CESD: Everything an effort	Categ
6	R6EFFORT	R6EFFORT:W6 CESD: Everything an effort	Categ
7	R7EFFORT	R7EFFORT:W7 CESD: Everything an effort	Categ
8	R8EFFORT	R8EFFORT:W8 CESD: Everything an effort	Categ
9	R9EFFORT	R9EFFORT:W9 CESD: Everything an effort	Categ
10	R10EFFORT	R10EFFORT:W10 CESD: Everything an effort	Categ
11	R11EFFORT	R11EFFORT:W11 CESD: Everything an effort	Categ
12	R12EFFORT	R12EFFORT:W12 CESD: Everything an effort	Categ
2	S2EFFORT	S2EFFORT:W2 CESD: Everything an effort	Categ
3	S3EFFORT	S3EFFORT:W3 CESD: Everything an effort	Categ
4	S4EFFORT	S4EFFORT:W4 CESD: Everything an effort	Categ
5	S5EFFORT	S5EFFORT:W5 CESD: Everything an effort	Categ
6	S6EFFORT	S6EFFORT:W6 CESD: Everything an effort	Categ
7	S7EFFORT	S7EFFORT:W7 CESD: Everything an effort	Categ
8	S8EFFORT	S8EFFORT:W8 CESD: Everything an effort	Categ
9	S9EFFORT	S9EFFORT:W9 CESD: Everything an effort	Categ
10	S10EFFORT	S10EFFORT:W10 CESD: Everything an effort	Categ
11	S11EFFORT	S11EFFORT:W11 CESD: Everything an effort	Categ
12	S12EFFORT	S12EFFORT:W12 CESD: Everything an effort	Categ
1	R1SLEEPX	R1SLEEPX:W1 CESD: Sleep was restless-raw	Categ
1	S1SLEEPX	S1SLEEPX:W1 CESD: Sleep was restless-raw	Categ
2	R2SLEEPR	R2SLEEPR:W2 CESD: Sleep was restless	Categ
3	R3SLEEPR	R3SLEEPR:W3 CESD: Sleep was restless	Categ
4	R4SLEEPR	R4SLEEPR:W4 CESD: Sleep was restless	Categ
5	R5SLEEPR	R5SLEEPR:W5 CESD: Sleep was restless	Categ
6	R6SLEEPR	R6SLEEPR:W6 CESD: Sleep was restless	Categ
7	R7SLEEPR	R7SLEEPR:W7 CESD: Sleep was restless	Categ

8	R8SLEEP	R8SLEEP:W8 CESD: Sleep was restless	Categ
9	R9SLEEP	R9SLEEP:W9 CESD: Sleep was restless	Categ
10	R10SLEEP	R10SLEEP:W10 CESD: Sleep was restless	Categ
11	R11SLEEP	R11SLEEP:W11 CESD: Sleep was restless	Categ
12	R12SLEEP	R12SLEEP:W12 CESD: Sleep was restless	Categ
2	S2SLEEP	S2SLEEP:W2 CESD: Sleep was restless	Categ
3	S3SLEEP	S3SLEEP:W3 CESD: Sleep was restless	Categ
4	S4SLEEP	S4SLEEP:W4 CESD: Sleep was restless	Categ
5	S5SLEEP	S5SLEEP:W5 CESD: Sleep was restless	Categ
6	S6SLEEP	S6SLEEP:W6 CESD: Sleep was restless	Categ
7	S7SLEEP	S7SLEEP:W7 CESD: Sleep was restless	Categ
8	S8SLEEP	S8SLEEP:W8 CESD: Sleep was restless	Categ
9	S9SLEEP	S9SLEEP:W9 CESD: Sleep was restless	Categ
10	S10SLEEP	S10SLEEP:W10 CESD: Sleep was restless	Categ
11	S11SLEEP	S11SLEEP:W11 CESD: Sleep was restless	Categ
12	S12SLEEP	S12SLEEP:W12 CESD: Sleep was restless	Categ
1	R1WHAPP	R1WHAPP:W1 CESD: Was happy-raw	Categ
1	S1WHAPP	S1WHAPP:W1 CESD: Was happy-raw	Categ
2	R2WHAPPY	R2WHAPPY:W2 CESD: Was happy	Categ
3	R3WHAPPY	R3WHAPPY:W3 CESD: Was happy	Categ
4	R4WHAPPY	R4WHAPPY:W4 CESD: Was happy	Categ
5	R5WHAPPY	R5WHAPPY:W5 CESD: Was happy	Categ
6	R6WHAPPY	R6WHAPPY:W6 CESD: Was happy	Categ
7	R7WHAPPY	R7WHAPPY:W7 CESD: Was happy	Categ
8	R8WHAPPY	R8WHAPPY:W8 CESD: Was happy	Categ
9	R9WHAPPY	R9WHAPPY:W9 CESD: Was happy	Categ
10	R10WHAPPY	R10WHAPPY:W10 CESD: Was happy	Categ
11	R11WHAPPY	R11WHAPPY:W11 CESD: Was happy	Categ
12	R12WHAPPY	R12WHAPPY:W12 CESD: Was happy	Categ
2	S2WHAPPY	S2WHAPPY:W2 CESD: Was happy	Categ
3	S3WHAPPY	S3WHAPPY:W3 CESD: Was happy	Categ
4	S4WHAPPY	S4WHAPPY:W4 CESD: Was happy	Categ
5	S5WHAPPY	S5WHAPPY:W5 CESD: Was happy	Categ
6	S6WHAPPY	S6WHAPPY:W6 CESD: Was happy	Categ
7	S7WHAPPY	S7WHAPPY:W7 CESD: Was happy	Categ
8	S8WHAPPY	S8WHAPPY:W8 CESD: Was happy	Categ
9	S9WHAPPY	S9WHAPPY:W9 CESD: Was happy	Categ
10	S10WHAPPY	S10WHAPPY:W10 CESD: Was happy	Categ
11	S11WHAPPY	S11WHAPPY:W11 CESD: Was happy	Categ
12	S12WHAPPY	S12WHAPPY:W12 CESD: Was happy	Categ
1	R1FLONE	R1FLONE:W1 CESD: Felt lonely-raw	Categ
1	S1FLONE	S1FLONE:W1 CESD: Felt lonely-raw	Categ
2	R2FLONE	R2FLONE:W2 CESD: Felt lonely	Categ
3	R3FLONE	R3FLONE:W3 CESD: Felt lonely	Categ
4	R4FLONE	R4FLONE:W4 CESD: Felt lonely	Categ
5	R5FLONE	R5FLONE:W5 CESD: Felt lonely	Categ
6	R6FLONE	R6FLONE:W6 CESD: Felt lonely	Categ
7	R7FLONE	R7FLONE:W7 CESD: Felt lonely	Categ
8	R8FLONE	R8FLONE:W8 CESD: Felt lonely	Categ
9	R9FLONE	R9FLONE:W9 CESD: Felt lonely	Categ
10	R10FLONE	R10FLONE:W10 CESD: Felt lonely	Categ
11	R11FLONE	R11FLONE:W11 CESD: Felt lonely	Categ
12	R12FLONE	R12FLONE:W12 CESD: Felt lonely	Categ
2	S2FLONE	S2FLONE:W2 CESD: Felt lonely	Categ
3	S3FLONE	S3FLONE:W3 CESD: Felt lonely	Categ
4	S4FLONE	S4FLONE:W4 CESD: Felt lonely	Categ
5	S5FLONE	S5FLONE:W5 CESD: Felt lonely	Categ
6	S6FLONE	S6FLONE:W6 CESD: Felt lonely	Categ
7	S7FLONE	S7FLONE:W7 CESD: Felt lonely	Categ
8	S8FLONE	S8FLONE:W8 CESD: Felt lonely	Categ
9	S9FLONE	S9FLONE:W9 CESD: Felt lonely	Categ
10	S10FLONE	S10FLONE:W10 CESD: Felt lonely	Categ
11	S11FLONE	S11FLONE:W11 CESD: Felt lonely	Categ



12	S12FLONE	S12FLONE:W12 CESD: Felt lonely	Categ
1	R1FSADX	R1FSADX:W1 CESD: Felt sad-row	Categ
1	S1FSADX	S1FSADX:W1 CESD: Felt sad-row	Categ
2	R2FSAD	R2FSAD:W2 CESD: Felt sad	Categ
3	R3FSAD	R3FSAD:W3 CESD: Felt sad	Categ
4	R4FSAD	R4FSAD:W4 CESD: Felt sad	Categ
5	R5FSAD	R5FSAD:W5 CESD: Felt sad	Categ
6	R6FSAD	R6FSAD:W6 CESD: Felt sad	Categ
7	R7FSAD	R7FSAD:W7 CESD: Felt sad	Categ
8	R8FSAD	R8FSAD:W8 CESD: Felt sad	Categ
9	R9FSAD	R9FSAD:W9 CESD: Felt sad	Categ
10	R10FSAD	R10FSAD:W10 CESD: Felt sad	Categ
11	R11FSAD	R11FSAD:W11 CESD: Felt sad	Categ
12	R12FSAD	R12FSAD:W12 CESD: Felt sad	Categ
2	S2FSAD	S2FSAD:W2 CESD: Felt sad	Categ
3	S3FSAD	S3FSAD:W3 CESD: Felt sad	Categ
4	S4FSAD	S4FSAD:W4 CESD: Felt sad	Categ
5	S5FSAD	S5FSAD:W5 CESD: Felt sad	Categ
6	S6FSAD	S6FSAD:W6 CESD: Felt sad	Categ
7	S7FSAD	S7FSAD:W7 CESD: Felt sad	Categ
8	S8FSAD	S8FSAD:W8 CESD: Felt sad	Categ
9	S9FSAD	S9FSAD:W9 CESD: Felt sad	Categ
10	S10FSAD	S10FSAD:W10 CESD: Felt sad	Categ
11	S11FSAD	S11FSAD:W11 CESD: Felt sad	Categ
12	S12FSAD	S12FSAD:W12 CESD: Felt sad	Categ
1	R1GOINGX	R1GOINGX:W1 CESD: Could not get going -raw	Categ
1	S1GOINGX	S1GOINGX:W1 CESD: Could not get going -raw	Categ
2	R2GOING	R2GOING:W2 CESD: Could not get going	Categ
3	R3GOING	R3GOING:W3 CESD: Could not get going	Categ
4	R4GOING	R4GOING:W4 CESD: Could not get going	Categ
5	R5GOING	R5GOING:W5 CESD: Could not get going	Categ
6	R6GOING	R6GOING:W6 CESD: Could not get going	Categ
7	R7GOING	R7GOING:W7 CESD: Could not get going	Categ
8	R8GOING	R8GOING:W8 CESD: Could not get going	Categ
9	R9GOING	R9GOING:W9 CESD: Could not get going	Categ
10	R10GOING	R10GOING:W10 CESD: Could not get going	Categ
11	R11GOING	R11GOING:W11 CESD: Could not get going	Categ
12	R12GOING	R12GOING:W12 CESD: Could not get going	Categ
2	S2GOING	S2GOING:W2 CESD: Could not get going	Categ
3	S3GOING	S3GOING:W3 CESD: Could not get going	Categ
4	S4GOING	S4GOING:W4 CESD: Could not get going	Categ
5	S5GOING	S5GOING:W5 CESD: Could not get going	Categ
6	S6GOING	S6GOING:W6 CESD: Could not get going	Categ
7	S7GOING	S7GOING:W7 CESD: Could not get going	Categ
8	S8GOING	S8GOING:W8 CESD: Could not get going	Categ
9	S9GOING	S9GOING:W9 CESD: Could not get going	Categ
10	S10GOING	S10GOING:W10 CESD: Could not get going	Categ
11	S11GOING	S11GOING:W11 CESD: Could not get going	Categ
12	S12GOING	S12GOING:W12 CESD: Could not get going	Categ
1	R1ENLIFX	R1ENLIFX:W1 CESD: Enjoyed life -raw	Categ
1	S1ENLIFX	S1ENLIFX:W1 CESD: Enjoyed life -raw	Categ
2	R2ENLIFE	R2ENLIFE:W2 CESD: Enjoyed life	Categ
3	R3ENLIFE	R3ENLIFE:W3 CESD: Enjoyed life	Categ
4	R4ENLIFE	R4ENLIFE:W4 CESD: Enjoyed life	Categ
5	R5ENLIFE	R5ENLIFE:W5 CESD: Enjoyed life	Categ
6	R6ENLIFE	R6ENLIFE:W6 CESD: Enjoyed life	Categ
7	R7ENLIFE	R7ENLIFE:W7 CESD: Enjoyed life	Categ
8	R8ENLIFE	R8ENLIFE:W8 CESD: Enjoyed life	Categ
9	R9ENLIFE	R9ENLIFE:W9 CESD: Enjoyed life	Categ
10	R10ENLIFE	R10ENLIFE:W10 CESD: Enjoyed life	Categ
11	R11ENLIFE	R11ENLIFE:W11 CESD: Enjoyed life	Categ

12	R12ENLIFE	R12ENLIFE:W12 CESD: Enjoyed life	Categ
2	S2ENLIFE	S2ENLIFE:W2 CESD: Enjoyed life	Categ
3	S3ENLIFE	S3ENLIFE:W3 CESD: Enjoyed life	Categ
4	S4ENLIFE	S4ENLIFE:W4 CESD: Enjoyed life	Categ
5	S5ENLIFE	S5ENLIFE:W5 CESD: Enjoyed life	Categ
6	S6ENLIFE	S6ENLIFE:W6 CESD: Enjoyed life	Categ
7	S7ENLIFE	S7ENLIFE:W7 CESD: Enjoyed life	Categ
8	S8ENLIFE	S8ENLIFE:W8 CESD: Enjoyed life	Categ
9	S9ENLIFE	S9ENLIFE:W9 CESD: Enjoyed life	Categ
10	S10ENLIFE	S10ENLIFE:W10 CESD: Enjoyed life	Categ
11	S11ENLIFE	S11ENLIFE:W11 CESD: Enjoyed life	Categ
12	S12ENLIFE	S12ENLIFE:W12 CESD: Enjoyed life	Categ
2	R2CESD	R2CESD:W2 CESD score	Cont
3	R3CESD	R3CESD:W3 CESD score	Cont
4	R4CESD	R4CESD:W4 CESD score	Cont
5	R5CESD	R5CESD:W5 CESD score	Cont
6	R6CESD	R6CESD:W6 CESD score	Cont
7	R7CESD	R7CESD:W7 CESD score	Cont
8	R8CESD	R8CESD:W8 CESD score	Cont
9	R9CESD	R9CESD:W9 CESD score	Cont
10	R10CESD	R10CESD:W10 CESD score	Cont
11	R11CESD	R11CESD:W11 CESD score	Cont
12	R12CESD	R12CESD:W12 CESD score	Cont
2	S2CESD	S2CESD:W2 CESD score	Cont
3	S3CESD	S3CESD:W3 CESD score	Cont
4	S4CESD	S4CESD:W4 CESD score	Cont
5	S5CESD	S5CESD:W5 CESD score	Cont
6	S6CESD	S6CESD:W6 CESD score	Cont
7	S7CESD	S7CESD:W7 CESD score	Cont
8	S8CESD	S8CESD:W8 CESD score	Cont
9	S9CESD	S9CESD:W9 CESD score	Cont
10	S10CESD	S10CESD:W10 CESD score	Cont
11	S11CESD	S11CESD:W11 CESD score	Cont
12	S12CESD	S12CESD:W12 CESD score	Cont
1	R1CESDM	R1CESDM:W1 missings in CESD score	Cont
2	R2CESDM	R2CESDM:W2 missings in CESD score	Cont
3	R3CESDM	R3CESDM:W3 missings in CESD score	Cont
4	R4CESDM	R4CESDM:W4 missings in CESD score	Cont
5	R5CESDM	R5CESDM:W5 missings in CESD score	Cont
6	R6CESDM	R6CESDM:W6 missings in CESD score	Cont
7	R7CESDM	R7CESDM:W7 missings in CESD score	Cont
8	R8CESDM	R8CESDM:W8 missings in CESD score	Cont
9	R9CESDM	R9CESDM:W9 missings in CESD score	Cont
10	R10CESDM	R10CESDM:W10 missings in CESD score	Cont
11	R11CESDM	R11CESDM:W11 missings in CESD score	Cont
12	R12CESDM	R12CESDM:W12 missings in CESD score	Cont
1	S1CESDM	S1CESDM:W1 missings in CESD score	Cont
2	S2CESDM	S2CESDM:W2 missings in CESD score	Cont
3	S3CESDM	S3CESDM:W3 missings in CESD score	Cont
4	S4CESDM	S4CESDM:W4 missings in CESD score	Cont
5	S5CESDM	S5CESDM:W5 missings in CESD score	Cont
6	S6CESDM	S6CESDM:W6 missings in CESD score	Cont
7	S7CESDM	S7CESDM:W7 missings in CESD score	Cont
8	S8CESDM	S8CESDM:W8 missings in CESD score	Cont
9	S9CESDM	S9CESDM:W9 missings in CESD score	Cont
10	S10CESDM	S10CESDM:W10 missings in CESD score	Cont
11	S11CESDM	S11CESDM:W11 missings in CESD score	Cont
12	S12CESDM	S12CESDM:W12 missings in CESD score	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DEPREX	12652	3.63	0.66	1.0	4.0
S1DEPREX	9900	3.67	0.62	1.0	4.0
R2DEPRES	18058	0.18	0.38	0.0	1.0
R3DEPRES	16339	0.16	0.37	0.0	1.0
R4DEPRES	19318	0.17	0.38	0.0	1.0
R5DEPRES	17503	0.18	0.38	0.0	1.0
R6DEPRES	16110	0.17	0.38	0.0	1.0
R7DEPRES	18271	0.16	0.37	0.0	1.0
R8DEPRES	17184	0.17	0.37	0.0	1.0
R9DEPRES	16067	0.13	0.34	0.0	1.0
R10DEPRES	20633	0.14	0.34	0.0	1.0
R11DEPRES	19386	0.14	0.35	0.0	1.0
R12DEPRES	17688	0.13	0.34	0.0	1.0
S2DEPRES	11934	0.14	0.35	0.0	1.0
S3DEPRES	10797	0.13	0.33	0.0	1.0
S4DEPRES	12563	0.14	0.35	0.0	1.0
S5DEPRES	11316	0.14	0.35	0.0	1.0
S6DEPRES	10269	0.14	0.35	0.0	1.0
S7DEPRES	11734	0.13	0.34	0.0	1.0
S8DEPRES	10931	0.13	0.34	0.0	1.0
S9DEPRES	9985	0.10	0.31	0.0	1.0
S10DEPRES	12687	0.11	0.31	0.0	1.0
S11DEPRES	11830	0.11	0.32	0.0	1.0
S12DEPRES	10435	0.11	0.31	0.0	1.0
R1EFFORX	12652	3.45	0.84	1.0	4.0
S1EFFORX	9900	3.50	0.80	1.0	4.0
R2EFFORT	18041	0.24	0.43	0.0	1.0
R3EFFORT	16332	0.22	0.42	0.0	1.0
R4EFFORT	19318	0.26	0.44	0.0	1.0
R5EFFORT	17501	0.24	0.43	0.0	1.0
R6EFFORT	16110	0.26	0.44	0.0	1.0
R7EFFORT	18262	0.25	0.43	0.0	1.0
R8EFFORT	17166	0.26	0.44	0.0	1.0
R9EFFORT	16055	0.23	0.42	0.0	1.0
R10EFFORT	20616	0.27	0.45	0.0	1.0
R11EFFORT	19363	0.26	0.44	0.0	1.0
R12EFFORT	17660	0.27	0.44	0.0	1.0
S2EFFORT	11932	0.21	0.41	0.0	1.0
S3EFFORT	10796	0.19	0.39	0.0	1.0
S4EFFORT	12557	0.24	0.42	0.0	1.0
S5EFFORT	11317	0.21	0.41	0.0	1.0
S6EFFORT	10273	0.22	0.42	0.0	1.0
S7EFFORT	11730	0.21	0.41	0.0	1.0
S8EFFORT	10927	0.23	0.42	0.0	1.0
S9EFFORT	9980	0.19	0.40	0.0	1.0
S10EFFORT	12680	0.24	0.43	0.0	1.0
S11EFFORT	11812	0.23	0.42	0.0	1.0
S12EFFORT	10419	0.24	0.42	0.0	1.0

R1SLEEPX	12652	3.33	0.84	1.0	4.0
S1SLEEPX	9900	3.36	0.81	1.0	4.0
R2SLEEPR	18060	0.31	0.46	0.0	1.0
R3SLEEPR	16347	0.28	0.45	0.0	1.0
R4SLEEPR	19322	0.35	0.48	0.0	1.0
R5SLEEPR	17506	0.33	0.47	0.0	1.0
R6SLEEPR	16108	0.28	0.45	0.0	1.0
R7SLEEPR	18269	0.29	0.45	0.0	1.0
R8SLEEPR	17189	0.30	0.46	0.0	1.0
R9SLEEPR	16067	0.32	0.47	0.0	1.0
R10SLEEPR	20626	0.31	0.46	0.0	1.0
R11SLEEPR	19376	0.33	0.47	0.0	1.0
R12SLEEPR	17671	0.31	0.46	0.0	1.0
S2SLEEPR	11931	0.29	0.45	0.0	1.0
S3SLEEPR	10802	0.26	0.44	0.0	1.0
S4SLEEPR	12561	0.33	0.47	0.0	1.0
S5SLEEPR	11317	0.32	0.47	0.0	1.0
S6SLEEPR	10268	0.26	0.44	0.0	1.0
S7SLEEPR	11733	0.27	0.44	0.0	1.0
S8SLEEPR	10936	0.27	0.45	0.0	1.0
S9SLEEPR	9985	0.31	0.46	0.0	1.0
S10SLEEPR	12685	0.29	0.45	0.0	1.0
S11SLEEPR	11821	0.31	0.46	0.0	1.0
S12SLEEPR	10426	0.29	0.45	0.0	1.0
R1WHAPPX	12652	1.91	0.80	1.0	4.0
S1WHAPPX	9900	1.85	0.77	1.0	4.0
R2WHAPPY	18031	0.88	0.32	0.0	1.0
R3WHAPPY	16325	0.89	0.32	0.0	1.0
R4WHAPPY	19316	0.86	0.34	0.0	1.0
R5WHAPPY	17495	0.87	0.33	0.0	1.0
R6WHAPPY	16094	0.87	0.33	0.0	1.0
R7WHAPPY	18227	0.87	0.34	0.0	1.0
R8WHAPPY	17156	0.86	0.34	0.0	1.0
R9WHAPPY	16058	0.86	0.34	0.0	1.0
R10WHAPPY	20594	0.85	0.36	0.0	1.0
R11WHAPPY	19345	0.86	0.35	0.0	1.0
R12WHAPPY	17645	0.86	0.35	0.0	1.0
S2WHAPPY	11920	0.90	0.29	0.0	1.0
S3WHAPPY	10790	0.91	0.29	0.0	1.0
S4WHAPPY	12558	0.89	0.31	0.0	1.0
S5WHAPPY	11311	0.90	0.31	0.0	1.0
S6WHAPPY	10266	0.90	0.30	0.0	1.0
S7WHAPPY	11712	0.89	0.31	0.0	1.0
S8WHAPPY	10917	0.89	0.31	0.0	1.0
S9WHAPPY	9983	0.89	0.31	0.0	1.0
S10WHAPPY	12669	0.88	0.33	0.0	1.0
S11WHAPPY	11806	0.88	0.32	0.0	1.0
S12WHAPPY	10411	0.89	0.32	0.0	1.0
R1FLONEX	12652	3.70	0.62	1.0	4.0
S1FLONEX	9900	3.78	0.53	1.0	4.0

R2FLONE	18065	0.16	0.36	0.0	1.0
R3FLONE	16342	0.16	0.37	0.0	1.0
R4FLONE	19322	0.18	0.38	0.0	1.0
R5FLONE	17503	0.18	0.39	0.0	1.0
R6FLONE	16108	0.18	0.39	0.0	1.0
R7FLONE	18271	0.17	0.38	0.0	1.0
R8FLONE	17183	0.18	0.38	0.0	1.0
R9FLONE	16064	0.16	0.37	0.0	1.0
R10FLONE	20631	0.17	0.38	0.0	1.0
R11FLONE	19383	0.17	0.38	0.0	1.0
R12FLONE	17677	0.17	0.38	0.0	1.0
S2FLONE	11934	0.08	0.28	0.0	1.0
S3FLONE	10801	0.09	0.29	0.0	1.0
S4FLONE	12562	0.11	0.31	0.0	1.0
S5FLONE	11315	0.11	0.31	0.0	1.0
S6FLONE	10269	0.10	0.29	0.0	1.0
S7FLONE	11736	0.10	0.30	0.0	1.0
S8FLONE	10932	0.10	0.30	0.0	1.0
S9FLONE	9985	0.09	0.29	0.0	1.0
S10FLONE	12687	0.10	0.31	0.0	1.0
S11FLONE	11830	0.10	0.30	0.0	1.0
S12FLONE	10434	0.10	0.31	0.0	1.0
R1FSADX	12652	3.60	0.62	1.0	4.0
S1FSADX	9900	3.64	0.58	1.0	4.0
R2FSAD	18055	0.17	0.38	0.0	1.0
R3FSAD	16340	0.16	0.37	0.0	1.0
R4FSAD	19318	0.20	0.40	0.0	1.0
R5FSAD	17502	0.22	0.41	0.0	1.0
R6FSAD	16107	0.21	0.41	0.0	1.0
R7FSAD	18265	0.21	0.40	0.0	1.0
R8FSAD	17177	0.20	0.40	0.0	1.0
R9FSAD	16061	0.18	0.38	0.0	1.0
R10FSAD	20628	0.19	0.39	0.0	1.0
R11FSAD	19373	0.20	0.40	0.0	1.0
R12FSAD	17664	0.19	0.39	0.0	1.0
S2FSAD	11928	0.13	0.34	0.0	1.0
S3FSAD	10798	0.13	0.34	0.0	1.0
S4FSAD	12559	0.17	0.37	0.0	1.0
S5FSAD	11316	0.18	0.38	0.0	1.0
S6FSAD	10268	0.17	0.38	0.0	1.0
S7FSAD	11732	0.17	0.37	0.0	1.0
S8FSAD	10928	0.16	0.37	0.0	1.0
S9FSAD	9981	0.14	0.35	0.0	1.0
S10FSAD	12687	0.15	0.36	0.0	1.0
S11FSAD	11819	0.15	0.36	0.0	1.0
S12FSAD	10425	0.15	0.36	0.0	1.0
R1GOINGX	12652	3.48	0.74	1.0	4.0
S1GOINGX	9900	3.51	0.72	1.0	4.0
R2GOING	18044	0.21	0.41	0.0	1.0
R3GOING	16335	0.19	0.40	0.0	1.0

R4GOING	19310	0.23	0.42	0.0	1.0
R5GOING	17501	0.22	0.42	0.0	1.0
R6GOING	16103	0.23	0.42	0.0	1.0
R7GOING	18247	0.21	0.41	0.0	1.0
R8GOING	17167	0.22	0.41	0.0	1.0
R9GOING	16051	0.20	0.40	0.0	1.0
R10GOING	20576	0.21	0.41	0.0	1.0
R11GOING	19321	0.21	0.41	0.0	1.0
R12GOING	17627	0.21	0.40	0.0	1.0
S2GOING	11927	0.18	0.38	0.0	1.0
S3GOING	10796	0.17	0.37	0.0	1.0
S4GOING	12554	0.21	0.41	0.0	1.0
S5GOING	11315	0.20	0.40	0.0	1.0
S6GOING	10265	0.20	0.40	0.0	1.0
S7GOING	11720	0.18	0.39	0.0	1.0
S8GOING	10926	0.18	0.39	0.0	1.0
S9GOING	9974	0.18	0.38	0.0	1.0
S10GOING	12662	0.19	0.39	0.0	1.0
S11GOING	11788	0.18	0.38	0.0	1.0
S12GOING	10401	0.18	0.38	0.0	1.0
R1ENLIFX	12652	1.62	0.77	1.0	4.0
S1ENLIFX	9900	1.59	0.73	1.0	4.0
R2ENLIFE	18034	0.92	0.26	0.0	1.0
R3ENLIFE	16329	0.93	0.25	0.0	1.0
R4ENLIFE	19310	0.92	0.28	0.0	1.0
R5ENLIFE	17496	0.92	0.27	0.0	1.0
R6ENLIFE	16101	0.93	0.26	0.0	1.0
R7ENLIFE	18254	0.92	0.27	0.0	1.0
R8ENLIFE	17174	0.92	0.28	0.0	1.0
R9ENLIFE	16049	0.91	0.28	0.0	1.0
R10ENLIFE	20617	0.91	0.29	0.0	1.0
R11ENLIFE	19350	0.91	0.29	0.0	1.0
R12ENLIFE	17669	0.90	0.29	0.0	1.0
S2ENLIFE	11922	0.94	0.24	0.0	1.0
S3ENLIFE	10794	0.94	0.23	0.0	1.0
S4ENLIFE	12556	0.93	0.25	0.0	1.0
S5ENLIFE	11315	0.93	0.25	0.0	1.0
S6ENLIFE	10270	0.94	0.23	0.0	1.0
S7ENLIFE	11727	0.94	0.25	0.0	1.0
S8ENLIFE	10925	0.93	0.25	0.0	1.0
S9ENLIFE	9979	0.93	0.25	0.0	1.0
S10ENLIFE	12687	0.93	0.26	0.0	1.0
S11ENLIFE	11815	0.93	0.26	0.0	1.0
S12ENLIFE	10431	0.93	0.26	0.0	1.0
R2CESD	18070	1.47	2.00	0.0	8.0
R3CESD	16347	1.36	1.90	0.0	8.0
R4CESD	19329	1.62	1.95	0.0	8.0
R5CESD	17509	1.58	1.93	0.0	8.0
R6CESD	16125	1.54	1.98	0.0	8.0
R7CESD	18283	1.50	1.99	0.0	8.0
R8CESD	17198	1.54	2.01	0.0	8.0
R9CESD	16075	1.45	1.98	0.0	8.0
R10CESD	20647	1.53	2.04	0.0	8.0

R11CESD	19400	1.54	2.05	0.0	8.0
R12CESD	17696	1.52	2.05	0.0	8.0
S2CESD	11937	1.19	1.81	0.0	8.0
S3CESD	10802	1.12	1.72	0.0	8.0
S4CESD	12566	1.37	1.80	0.0	8.0
S5CESD	11318	1.32	1.79	0.0	8.0
S6CESD	10278	1.25	1.79	0.0	8.0
S7CESD	11742	1.24	1.82	0.0	8.0
S8CESD	10938	1.26	1.82	0.0	8.0
S9CESD	9989	1.19	1.78	0.0	8.0
S10CESD	12692	1.27	1.86	0.0	8.0
S11CESD	11834	1.27	1.86	0.0	8.0
S12CESD	10437	1.26	1.86	0.0	8.0
R1CESDM	12652	0.04	0.50	0.0	8.0
R2CESDM	19642	0.65	2.17	0.0	8.0
R3CESDM	17991	0.74	2.31	0.0	8.0
R4CESDM	21384	0.77	2.36	0.0	8.0
R5CESDM	19579	0.85	2.46	0.0	8.0
R6CESDM	18165	0.91	2.53	0.0	8.0
R7CESDM	20129	0.74	2.31	0.0	8.0
R8CESDM	18469	0.56	2.03	0.0	8.0
R9CESDM	17217	0.54	1.99	0.0	8.0
R10CESDM	22034	0.52	1.94	0.0	8.0
R11CESDM	20554	0.46	1.84	0.0	8.0
R12CESDM	18747	0.46	1.84	0.0	8.0
S1CESDM	9900	0.05	0.53	0.0	8.0
S2CESDM	13088	0.71	2.27	0.0	8.0
S3CESDM	11915	0.75	2.33	0.0	8.0
S4CESDM	13978	0.81	2.41	0.0	8.0
S5CESDM	12730	0.89	2.51	0.0	8.0
S6CESDM	11639	0.94	2.57	0.0	8.0
S7CESDM	12972	0.77	2.35	0.0	8.0
S8CESDM	11735	0.55	2.02	0.0	8.0
S9CESDM	10646	0.50	1.93	0.0	8.0
S10CESDM	13513	0.49	1.91	0.0	8.0
S11CESDM	12488	0.43	1.78	0.0	8.0
S12CESDM	11027	0.44	1.80	0.0	8.0

## Categorical Variable Codes

Value	R1DEPREX
1.All or almost all	298
2.Most of the time	371
3.Some of the time	3090
4.None or almost none	8893

Value	S1DEPREX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	186
2.Most of the time	237
3.Some of the time	2252
4.None or almost none	7225

Value	R2DEPRES	R3DEPRES	R4DEPRES	R5DEPRES	R6DEPRES	R7DEPRES
.D=DK/NA	13	7	5	6	15	9
.M=Oth missing		2	9	6		36
.R=RF	6	3	9	2	4	11
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	14805	13749	15946	14378	13291	15329
1.Yes	3253	2590	3372	3125	2819	2942

Value	R8DEPRES	R9DEPRES	R10DEPRES	R11DEPRES	R12DEPRES
.D=DK/NA	13	9	13	14	9
.M=Oth missing	3		3	1	
.R=RF	9	1	3	7	1
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	14316	13941	17800	16649	15312
1.Yes	2868	2126	2833	2737	2376

Value	S2DEPRES	S3DEPRES	S4DEPRES	S5DEPRES	S6DEPRES	S7DEPRES
.D=DK/NA	4	4	1	3	9	5
.M=Oth missing		2	3	1		23
.R=RF	2	1	4		2	7
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	10204	9428	10756	9716	8834	10213
1.Yes	1730	1369	1807	1600	1435	1521

Value	S8DEPRES	S9DEPRES	S10DEPRES	S11DEPRES	S12DEPRES
.D=DK/NA	5	4	4	4	3
.M=Oth missing	1		3	1	
.R=RF	6		2	4	
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9482	8945	11295	10504	9321
1.Yes	1449	1040	1392	1326	1114



Value	R1EFFORX
1.All or almost all	626
2.Most of the time	971
3.Some of the time	3090
4.None or almost none	7965

Value	S1EFFORX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	429
2.Most of the time	658
3.Some of the time	2359
4.None or almost none	6454

Value	R2EFFORT	R3EFFORT	R4EFFORT	R5EFFORT	R6EFFORT	R7EFFORT
.D=DK/NA	27	14	9	7	13	17
.M=Oth missing		1	11	7		36
.R=RF	9	4	3	2	6	12
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	13689	12693	14244	13303	11953	13771
1.Yes	4352	3639	5074	4198	4157	4491

Value	R8EFFORT	R9EFFORT	R10EFFORT	R11EFFORT	R12EFFORT
.D=DK/NA	29	19	27	33	34
.M=Oth missing	3		3	1	
.R=RF	11	3	6	11	4
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	12652	12397	14973	14290	12907
1.Yes	4514	3658	5643	5073	4753

Value	S2EFFORT	S3EFFORT	S4EFFORT	S5EFFORT	S6EFFORT	S7EFFORT
.D=DK/NA	6	6	7	1	5	8
.M=Oth missing		1	5	1		23
.R=RF	2	1	2	1	2	8
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	9454	8711	9603	8922	7974	9213
1.Yes	2478	2085	2954	2395	2299	2517

Value	S8EFFORT	S9EFFORT	S10EFFORT	S11EFFORT	S12EFFORT
.D=DK/NA	9	8	10	18	18
.M=Oth missing	1		3	1	
.R=RF	6	1	3	8	1
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8393	8043	9648	9128	7955
1.Yes	2534	1937	3032	2684	2464

Value	R1SLEEPX
1.All or almost all	692
2.Most of the time	1011
3.Some of the time	4400
4.None or almost none	6549

Value	S1SLEEPX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	471
2.Most of the time	733
3.Some of the time	3503
4.None or almost none	5193

Value	R2SLEEPX	R3SLEEPX	R4SLEEPX	R5SLEEPX	R6SLEEPX	R7SLEEPX
.D=DK/NA	15		3	3	15	11
.M=Oth missing		1	12	6		36
.R=RF	2	3	4	2	6	11
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	12460	11833	12613	11683	11592	12954
1.Yes	5600	4514	6709	5823	4516	5315

Value	R8SLEEPX	R9SLEEPX	R10SLEEPX	R11SLEEPX	R12SLEEPX
.D=DK/NA	11	9	20	24	25
.M=Oth missing	3		3	1	
.R=RF	6	1	3	7	2
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	12111	10878	14241	12980	12143
1.Yes	5078	5189	6385	6396	5528

Value	S2SLEEPX	S3SLEEPX	S4SLEEPX	S5SLEEPX	S6SLEEPX	S7SLEEPX
.D=DK/NA	8		2	1	9	6
.M=Oth missing		1	6	1		23
.R=RF	1	1	2	1	3	7
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8528	8010	8428	7736	7581	8566
1.Yes	3403	2792	4133	3581	2687	3167

Value	S8SLEEPX	S9SLEEPX	S10SLEEPX	S11SLEEPX	S12SLEEPX
.D=DK/NA	2	4	7	12	11
.M=Oth missing	1		3	1	
.R=RF	4		1	5	1
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	7936	6928	9042	8171	7384
1.Yes	3000	3057	3643	3650	3042

Value	R1WHAPPX
1.All or almost all	4265
2.Most of the time	5747
3.Some of the time	2200
4.None or almost none	440

Value	S1WHAPPX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	3510
2.Most of the time	4578
3.Some of the time	1551
4.None or almost none	261

Value	R2WHAPPY	R3WHAPPY	R4WHAPPY	R5WHAPPY	R6WHAPPY	R7WHAPPY
.D=DK/NA	39	16	7	12	28	47
.M=Oth missing		4	14	7		36
.R=RF	7	6	4	3	7	17
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	2119	1825	2616	2211	2048	2397
1.Yes	15912	14500	16700	15284	14046	15830

Value	R8WHAPPY	R9WHAPPY	R10WHAPPY	R11WHAPPY	R12WHAPPY
.D=DK/NA	38	17	44	52	47
.M=Oth missing	3		3	1	
.R=RF	12	2	11	10	6
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	2324	2172	3068	2791	2537
1.Yes	14832	13886	17526	16554	15108

Value	S2WHAPPY	S3WHAPPY	S4WHAPPY	S5WHAPPY	S6WHAPPY	S7WHAPPY
.D=DK/NA	16	8	4	7	11	24
.M=Oth missing		4	6	1		23
.R=RF	4	2	3	1	3	10
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	1141	991	1387	1184	1051	1284
1.Yes	10779	9799	11171	10127	9215	10428

Value	S8WHAPPY	S9WHAPPY	S10WHAPPY	S11WHAPPY	S12WHAPPY
.D=DK/NA	17	6	18	27	24
.M=Oth missing	1		3	1	
.R=RF	8		6	5	3
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	1181	1085	1530	1362	1193
1.Yes	9736	8898	11139	10444	9218

Value	R1FLONEX
1.All or almost all	249
2.Most of the time	358
3.Some of the time	2377
4.None or almost none	9668

Value	S1FLONEX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	111
2.Most of the time	179
3.Some of the time	1530
4.None or almost none	8080

Value	R2FLONE	R3FLONE	R4FLONE	R5FLONE	R6FLONE	R7FLONE
.D=DK/NA	8	3	2	6	15	7
.M=Oth missing		2	14	6		36
.R=RF	4	4	3	2	6	13
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	15235	13742	15864	14281	13182	15075
1.Yes	2830	2600	3458	3222	2926	3196

Value	R8FLONE	R9FLONE	R10FLONE	R11FLONE	R12FLONE
.D=DK/NA	14	11	14	16	18
.M=Oth missing	3		3	1	
.R=RF	9	2	4	8	3
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	14139	13479	17110	16013	14629
1.Yes	3044	2585	3521	3370	3048

Value	S2FLONE	S3FLONE	S4FLONE	S5FLONE	S6FLONE	S7FLONE
.D=DK/NA	4		1	3	9	3
.M=Oth missing		2	6	1		23
.R=RF	2	1	2	1	2	7
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	10935	9819	11229	10106	9281	10543
1.Yes	999	982	1333	1209	988	1193

Value	S8FLONE	S9FLONE	S10FLONE	S11FLONE	S12FLONE
.D=DK/NA	4	4	4	4	4
.M=Oth missing	1		3	1	
.R=RF	6		2	4	
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9802	9090	11363	10606	9342
1.Yes	1130	895	1324	1224	1092

Value	R1FSADX
1.All or almost all	202
2.Most of the time	345
3.Some of the time	3752
4.None or almost none	8353

Value	S1FSADX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	107
2.Most of the time	228
3.Some of the time	2770
4.None or almost none	6795

Value	R2FSAD	R3FSAD	R4FSAD	R5FSAD	R6FSAD	R7FSAD
.D=DK/NA	14	4	4	7	15	13
.M=Oth missing		4	15	6		36
.R=RF	8	3	4	2	7	13
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	14936	13646	15415	13734	12693	14497
1.Yes	3119	2694	3903	3768	3414	3768

Value	R8FSAD	R9FSAD	R10FSAD	R11FSAD	R12FSAD
.D=DK/NA	21	15	16	24	29
.M=Oth missing	3		3	1	
.R=RF	8	1	5	10	5
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	13719	13155	16660	15559	14281
1.Yes	3458	2906	3968	3814	3383

Value	S2FSAD	S3FSAD	S4FSAD	S5FSAD	S6FSAD	S7FSAD
.D=DK/NA	7	2	2	2	9	6
.M=Oth missing		3	7	1		23
.R=RF	5	1	3	1	3	8
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	10340	9392	10475	9311	8522	9779
1.Yes	1588	1406	2084	2005	1746	1953

Value	S8FSAD	S9FSAD	S10FSAD	S11FSAD	S12FSAD
.D=DK/NA	8	8	5	14	12
.M=Oth missing	1		3	1	
.R=RF	6		1	5	1
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9189	8573	10745	9989	8822
1.Yes	1739	1408	1942	1830	1603

Value	R1GOINGX
1.All or almost all	412
2.Most of the time	640
3.Some of the time	4037
4.None or almost none	7563

Value	S1GOINGX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	286
2.Most of the time	441
3.Some of the time	3129
4.None or almost none	6044

Value	R2GOING	R3GOING	R4GOING	R5GOING	R6GOING	R7GOING
.D=DK/NA	28	10	11	7	18	30
.M=Oth missing		1	16	7		36
.R=RF	5	5	4	2	8	14
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	14202	13174	14796	13610	12405	14371
1.Yes	3842	3161	4514	3891	3698	3876

Value	R8GOING	R9GOING	R10GOING	R11GOING	R12GOING
.D=DK/NA	30	24	63	77	66
.M=Oth missing	3		3	1	
.R=RF	9	2	10	9	5
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	13463	12797	16284	15318	14011
1.Yes	3704	3254	4292	4003	3616

Value	S2GOING	S3GOING	S4GOING	S5GOING	S6GOING	S7GOING
.D=DK/NA	12	5	6	3	11	17
.M=Oth missing		1	8	1		23
.R=RF	1	2	3	1	4	9
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	9772	8987	9879	9045	8198	9566
1.Yes	2155	1809	2675	2270	2067	2154

Value	S8GOING	S9GOING	S10GOING	S11GOING	S12GOING
.D=DK/NA	10	14	27	44	35
.M=Oth missing	1		3	1	
.R=RF	6	1	4	6	2
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8915	8211	10316	9679	8535
1.Yes	2011	1763	2346	2109	1866

Value	R1ENLIFX
1.All or almost all	6680
2.Most of the time	4359
3.Some of the time	1307
4.None or almost none	306

Value	S1ENLIFX
.U=Unmarried	2373
.V=Spouse NR	379
1.All or almost all	5372
2.Most of the time	3433
3.Some of the time	913
4.None or almost none	182

Value	R2ENLIFE	R3ENLIFE	R4ENLIFE	R5ENLIFE	R6ENLIFE	R7ENLIFE
.D=DK/NA	39	13	12	10	21	23
.M=Oth missing		3	15	7		36
.R=RF	4	6	4	4	7	14
.S=Skip,question not asked	1565	1640	2043	2062	2036	1802
0.No	1359	1131	1595	1386	1174	1460
1.Yes	16675	15198	17715	16110	14927	16794

Value	R8ENLIFE	R9ENLIFE	R10ENLIFE	R11ENLIFE	R12ENLIFE
.D=DK/NA	21	25	22	45	26
.M=Oth missing	3		3	1	
.R=RF	11	3	10	12	3
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	1434	1390	1920	1769	1688
1.Yes	15740	14659	18697	17581	15981

Value	S2ENLIFE	S3ENLIFE	S4ENLIFE	S5ENLIFE	S6ENLIFE	S7ENLIFE
.D=DK/NA	15	7	5	2	8	11
.M=Oth missing		2	7	1		23
.R=RF	3	1	3	2	2	8
.S=Skip,question not asked	1148	1111	1407	1410	1359	1203
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	731	628	861	749	586	754
1.Yes	11191	10166	11695	10566	9684	10973

Value	S8ENLIFE	S9ENLIFE	S10ENLIFE	S11ENLIFE	S12ENLIFE
.D=DK/NA	10	10	5	16	7
.M=Oth missing	1		3	1	
.R=RF	7		1	7	
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	721	672	935	833	770
1.Yes	10204	9307	11752	10982	9661

## How Constructed

RwDEPRES, RwEFFORT, RwSLEEP, RwWHAPPY, RwFLONE, RwFSAD, RwGOING, and RwENLIFE are yes/no indicators of the Respondent's feelings much of the time over the week prior to the interview. RwCESD is a summary of these measures. RwCESDM indicates how many individual measures used to derive RwCESD are missing.

SwDEPRES, SwEFFORT, SwSLEEPR, SwWHAPPY, SwFLONE, SwFSAD, SwGOING, SwENLIFE, SwCESD, and SwCESDM are this information for the Respondent's spouse or partner.

To make consistent measures across waves, yes/no dummy variables were derived. In all except Wave 1, the question has a "yes" or "no" response to whether the Respondent felt a certain way "much of the time." For Wave 1, the response could be one of four categories: "all or almost all of the time," "most of the time," "some of the time," or "none or almost none of the time." The measures in this wave are not recoded to 0/1 (no/yes), but are recoded to the 4-point scale. These measures were imputed by HRS if missing in Wave 1, and the imputations were used. Because the Wave 1 variables are very different from those in other waves, the variables are named differently, i.e., they are R1DEPREX, R1EFFORX, R1SLEEPX, R1WHAPPX, R1FLONEX, R1FSADX, R1GOINGX, and R1ENLIFX. The spouse measures are called S1DEPREX, S1EFFORX, S1SLEEPX, S1WHAPPX, S1FLONEX, S1FSADX, S1GOINGX, and S1ENLIFX.

It appears "much of the time" in later waves is somewhere between "some" and "most" of the time in Wave 1. Another variable in the HRS (but not on this file) rates overall emotional health, and is asked in Waves 1 and 2H. A possible means for making these measures more consistent between Wave 1 and the rest of the waves is to use those who gave the same emotional health in both Waves 1 and 2H, comparing their answers of "some" and "yes" by level of emotional health.

RwCESD is the sum of RwDEPRES, RwEFFORT, RwSLEEPR, (1-RwWHAPPY), RwFLONE, RwFSAD, RwGOING, and (1-RwENLIFE). Thus the higher the score, the more negative the Respondent's feelings in the past week. RwCESDM counts the number of missing values among the individual measures. In Wave 1 the R1CESD summary measure is not included; R1CESDM counts the number of imputed values used among the Wave 1 measures.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3CESD is taken from the Wave 3 spouse's R3CESD.

### **Cross Wave Differences in Original HRS Data**

In each wave questions ask about the Respondent's feelings in the past week. The wording of the questions varies slightly across waves.

In Wave 1, the questions begin:

"Please tell me how often you have experienced the following feelings during the past week-all or almost all of the time, most of the time, some of the time, or none or almost none of the time. During the past week..."

A series of statements follow and the Respondent answers with one of the four frequencies listed in the question.

Beginning in Wave 2, the questions start:

"Now think about the past week and the feelings you have experienced. Please tell me if each of the following was true for you much of the time this past week. Much of the time during the past week ..."

A series of statements follow to which the Respondent can answer "yes" or "no." Note that the responses given in Wave 1 are very different and not very comparable to those given in later waves.

The statements are similar across waves. They state that the Respondent felt depressed, felt that everything s/he did was an effort, sleep was restless, could not get going, felt lonely, enjoyed life, felt sad, and was happy.



**HRS Variables Used**

HRS 1992:  
 V10519 B44A:DEPRESSION :IND  
 V10520 B44B:EVERYTHING TIRI:IND  
 V10521 B44C:RESTLESS SLEEP :IND  
 V10522 B44D:HAPPINESS :IND  
 V10523 B44E:LONLINESS :IND  
 V10525 B44G:ENJOYED LIFE :IND  
 V10526 B44H:SADNESS :IND  
 V10528 B44K:CAN'T GET GOIN:IND  
 V519 B44A:DEPRESSION :IMP  
 V520 B44B:EVERYTHING TIRI:IMP  
 V521 B44C:RESTLESS SLEEP :IMP  
 V522 B44D:HAPPINESS :IMP  
 V523 B44E:LONLINESS :IMP  
 V525 B44G:ENJOYED LIFE :IMP  
 V526 B44H:SADNESS :IMP  
 V528 B44K:CAN T GET GOIN:IMP  
 AHEAD 1993:  
 B307 B24. CESD DEPRESSED PAST WEEK  
 B309 B24a. CESD EFFORT PAST WEEK  
 B310 B24b. CESD SLEEP PAST WEEK  
 B311 B24c. CESD HAPPY PAST WEEK  
 B312 B24d. CESD LONELY PAST WEEK  
 B314 B24f. CESD ENJOY LIFE PAST WEEK  
 B315 B24g. CESD SAD PAST WEEK  
 B316 B24h. CESD NOT GET GOING PAST WEEK  
 HRS 1994:  
 W465 B46a.FELT DEPRESSED  
 W466 B46b.EVERYTHING AN EFFOR  
 W467 B46c.SLEEP RESTLESS  
 W468 B46d.COULD NOT GET GOING  
 W469 B46e.FELT LONELY  
 W470 B46f.ENJOY LIFE  
 W471 B46g.FELT SAD  
 W472 B46h.HAPPY  
 AHEAD 1995:  
 D1001 B24H. CESD GOING  
 D985 B24. CESD DEPRESSED  
 D987 B24A. CESD EFFORT  
 D989 B24B. CESD SLEEP  
 D991 B24C. CESD HAPPY  
 D993 B24D. CESD LONELY  
 D995 B24E. CESD ENJOY LIFE  
 D999 B24G. CESD SAD  
 HRS 1996:  
 E985 B24. CESD DEPRESSED  
 E986 B24A. CESD EFFORT  
 E987 B24B. CESD SLEEP  
 E988 B24C. CESD HAPPY  
 E989 B24D. CESD LONELY  
 E990 B24E. CESD ENJOY LIFE  
 E991 B24G. CESD SAD  
 E992 B24H. CESD GOING  
 HRS 1998:  
 F1493 C5. CESD DEPRESSED  
 F1494 C5A. CESD EFFORT  
 F1495 C5B. CESD SLEEP  
 F1496 C5C. CESD HAPPY

F1497	C5D. CESD LONELY
F1498	C5E. CESD ENJOY LIFE
F1499	C5G. CESD SAD
F1500	CFH. CESD GOING
HRS 2000:	
G1669	C5. CESD DEPRESSED
G1670	C5A. CESD EFFORT
G1671	C5B. CESD SLEEP
G1672	C5C. CESD HAPPY
G1673	C5D. CESD LONELY
G1674	C5E. CESD ENJOY LIFE
G1675	C5G. CESD SAD
G1676	CFH. CESD GOING
HRS 2002:	
HD110	FEELING DEPRESSED W/IN PREV WK
HD111	FELT ACTIVITIES WERE EFFORTS
HD112	WAS SLEEP RESTLESS W/IN PREV WK
HD113	WAS R HAPPY W/IN PREV WK
HD114	LONELINESS FELT W/IN PREV WK
HD115	ENJOYED LIFE W/IN PREV WK
HD116	FELT SAD W/IN PREV WK
HD117	FELT UNMOTIVATED W/IN PREV WK
HRS 2004:	
JD110	FEELING DEPRESSED W/IN PREV WK
JD111	FELT ACTIVITIES WERE EFFORTS
JD112	WAS SLEEP RESTLESS W/IN PREV WK
JD113	WAS R HAPPY W/IN PREV WK
JD114	LONELINESS FELT W/IN PREV WK
JD115	ENJOYED LIFE W/IN PREV WK
JD116	FELT SAD W/IN PREV WK
JD117	FELT UNMOTIVATED W/IN PREV WK
HRS 2006:	
KD110	FEELING DEPRESSED W/IN PREV WK
KD111	FELT ACTIVITIES WERE EFFORTS
KD112	WAS SLEEP RESTLESS W/IN PREV WK
KD113	WAS R HAPPY W/IN PREV WK
KD114	LONELINESS FELT W/IN PREV WK
KD115	ENJOYED LIFE W/IN PREV WK
KD116	FELT SAD W/IN PREV WK
KD117	FELT UNMOTIVATED W/IN PREV WK
HRS 2008:	
LD110	FEELING DEPRESSED W/IN PREV WK
LD111	FELT ACTIVITIES WERE EFFORTS
LD112	WAS SLEEP RESTLESS W/IN PREV WK
LD113	WAS R HAPPY W/IN PREV WK
LD114	LONELINESS FELT W/IN PREV WK
LD115	ENJOYED LIFE W/IN PREV WK
LD116	FELT SAD W/IN PREV WK
LD117	FELT UNMOTIVATED W/IN PREV WK
HRS 2010:	
MD110	FEELING DEPRESSED W/IN PREV WK
MD111	FELT ACTIVITIES WERE EFFORTS
MD112	WAS SLEEP RESTLESS W/IN PREV WK
MD113	WAS R HAPPY W/IN PREV WK
MD114	LONELINESS FELT W/IN PREV WK
MD115	ENJOYED LIFE W/IN PREV WK
MD116	FELT SAD W/IN PREV WK
MD117	FELT UNMOTIVATED W/IN PREV WK
HRS 2012:	

ND110	FEELING DEPRESSED W/IN PREV WK
ND111	FELT ACTIVITIES WERE EFFORTS
ND112	WAS SLEEP RESTLESS W/IN PREV WK
ND113	WAS R HAPPY W/IN PREV WK
ND114	LONELINESS FELT W/IN PREV WK
ND115	ENJOYED LIFE W/IN PREV WK
ND116	FELT SAD W/IN PREV WK
ND117	FELT UNMOTIVATED W/IN PREV WK
HRS 2014:	
OD110	FEELING DEPRESSED W/IN PREV WK
OD111	FELT ACTIVITIES WERE EFFORTS
OD112	WAS SLEEP RESTLESS W/IN PREV WK
OD113	WAS R HAPPY W/IN PREV WK
OD114	LONELINESS FELT W/IN PREV WK
OD115	ENJOYED LIFE W/IN PREV WK
OD116	FELT SAD W/IN PREV WK
OD117	FELT UNMOTIVATED W/IN PREV WK

### Doctor diagnosed health problems: Raw Recodes and Question Wording

Wave	Variable	Label	Type
1	R1HIBP	R1HIBP:W1 R reports high BP this wv	Categ
2	R2HIBP	R2HIBP:W2 R reports high BP this wv	Categ
3	R3HIBP	R3HIBP:W3 R reports high BP this wv	Categ
4	R4HIBP	R4HIBP:W4 R reports high BP this wv	Categ
5	R5HIBP	R5HIBP:W5 R reports high BP this wv	Categ
6	R6HIBP	R6HIBP:W6 R reports high BP this wv	Categ
7	R7HIBP	R7HIBP:W7 R reports high BP this wv	Categ
8	R8HIBP	R8HIBP:W8 R reports high BP this wv	Categ
9	R9HIBP	R9HIBP:W9 R reports high BP this wv	Categ
10	R10HIBP	R10HIBP:W10 R reports high BP this wv	Categ
11	R11HIBP	R11HIBP:W11 R reports high BP this wv	Categ
12	R12HIBP	R12HIBP:W12 R reports high BP this wv	Categ
1	S1HIBP	S1HIBP:W1 S reports high BP this wv	Categ
2	S2HIBP	S2HIBP:W2 S reports high BP this wv	Categ
3	S3HIBP	S3HIBP:W3 S reports high BP this wv	Categ
4	S4HIBP	S4HIBP:W4 S reports high BP this wv	Categ
5	S5HIBP	S5HIBP:W5 S reports high BP this wv	Categ
6	S6HIBP	S6HIBP:W6 S reports high BP this wv	Categ
7	S7HIBP	S7HIBP:W7 S reports high BP this wv	Categ
8	S8HIBP	S8HIBP:W8 S reports high BP this wv	Categ
9	S9HIBP	S9HIBP:W9 S reports high BP this wv	Categ
10	S10HIBP	S10HIBP:W10 S reports high BP this wv	Categ
11	S11HIBP	S11HIBP:W11 S reports high BP this wv	Categ
12	S12HIBP	S12HIBP:W12 S reports high BP this wv	Categ
1	R1HIBPQ	R1HIBPQ:W1 Q-wording high BP this wv	Categ
2	R2HIBPQ	R2HIBPQ:W2 Q-wording high BP this wv	Categ
3	R3HIBPQ	R3HIBPQ:W3 Q-wording high BP this wv	Categ
4	R4HIBPQ	R4HIBPQ:W4 Q-wording high BP this wv	Categ
5	R5HIBPQ	R5HIBPQ:W5 Q-wording high BP this wv	Categ
6	R6HIBPQ	R6HIBPQ:W6 Q-wording high BP this wv	Categ
7	R7HIBPQ	R7HIBPQ:W7 Q-wording high BP this wv	Categ
8	R8HIBPQ	R8HIBPQ:W8 Q-wording high BP this wv	Categ
9	R9HIBPQ	R9HIBPQ:W9 Q-wording high BP this wv	Categ
10	R10HIBPQ	R10HIBPQ:W10 Q-wording high BP this wv	Categ
11	R11HIBPQ	R11HIBPQ:W11 Q-wording high BP this wv	Categ
12	R12HIBPQ	R12HIBPQ:W12 Q-wording high BP this wv	Categ
1	S1HIBPQ	S1HIBPQ:W1 Q-wording high BP this wv	Categ
2	S2HIBPQ	S2HIBPQ:W2 Q-wording high BP this wv	Categ
3	S3HIBPQ	S3HIBPQ:W3 Q-wording high BP this wv	Categ
4	S4HIBPQ	S4HIBPQ:W4 Q-wording high BP this wv	Categ
5	S5HIBPQ	S5HIBPQ:W5 Q-wording high BP this wv	Categ
6	S6HIBPQ	S6HIBPQ:W6 Q-wording high BP this wv	Categ
7	S7HIBPQ	S7HIBPQ:W7 Q-wording high BP this wv	Categ
8	S8HIBPQ	S8HIBPQ:W8 Q-wording high BP this wv	Categ
9	S9HIBPQ	S9HIBPQ:W9 Q-wording high BP this wv	Categ
10	S10HIBPQ	S10HIBPQ:W10 Q-wording high BP this wv	Categ
11	S11HIBPQ	S11HIBPQ:W11 Q-wording high BP this wv	Categ
12	S12HIBPQ	S12HIBPQ:W12 Q-wording high BP this wv	Categ
1	R1DIAB	R1DIAB:W1 R reports diabetes this wv	Categ
2	R2DIAB	R2DIAB:W2 R reports diabetes this wv	Categ
3	R3DIAB	R3DIAB:W3 R reports diabetes this wv	Categ
4	R4DIAB	R4DIAB:W4 R reports diabetes this wv	Categ
5	R5DIAB	R5DIAB:W5 R reports diabetes this wv	Categ
6	R6DIAB	R6DIAB:W6 R reports diabetes this wv	Categ
7	R7DIAB	R7DIAB:W7 R reports diabetes this wv	Categ
8	R8DIAB	R8DIAB:W8 R reports diabetes this wv	Categ
9	R9DIAB	R9DIAB:W9 R reports diabetes this wv	Categ
10	R10DIAB	R10DIAB:W10 R reports diabetes this wv	Categ
11	R11DIAB	R11DIAB:W11 R reports diabetes this wv	Categ
12	R12DIAB	R12DIAB:W12 R reports diabetes this wv	Categ
1	S1DIAB	S1DIAB:W1 S reports diabetes this wv	Categ

2	S2DIAB	S2DIAB:W2 S reports diabetes this wv	Categ
3	S3DIAB	S3DIAB:W3 S reports diabetes this wv	Categ
4	S4DIAB	S4DIAB:W4 S reports diabetes this wv	Categ
5	S5DIAB	S5DIAB:W5 S reports diabetes this wv	Categ
6	S6DIAB	S6DIAB:W6 S reports diabetes this wv	Categ
7	S7DIAB	S7DIAB:W7 S reports diabetes this wv	Categ
8	S8DIAB	S8DIAB:W8 S reports diabetes this wv	Categ
9	S9DIAB	S9DIAB:W9 S reports diabetes this wv	Categ
10	S10DIAB	S10DIAB:W10 S reports diabetes this wv	Categ
11	S11DIAB	S11DIAB:W11 S reports diabetes this wv	Categ
12	S12DIAB	S12DIAB:W12 S reports diabetes this wv	Categ
1	R1DIABQ	R1DIABQ:W1 Q-wording diabetes this wv	Categ
2	R2DIABQ	R2DIABQ:W2 Q-wording diabetes this wv	Categ
3	R3DIABQ	R3DIABQ:W3 Q-wording diabetes this wv	Categ
4	R4DIABQ	R4DIABQ:W4 Q-wording diabetes this wv	Categ
5	R5DIABQ	R5DIABQ:W5 Q-wording diabetes this wv	Categ
6	R6DIABQ	R6DIABQ:W6 Q-wording diabetes this wv	Categ
7	R7DIABQ	R7DIABQ:W7 Q-wording diabetes this wv	Categ
8	R8DIABQ	R8DIABQ:W8 Q-wording diabetes this wv	Categ
9	R9DIABQ	R9DIABQ:W9 Q-wording diabetes this wv	Categ
10	R10DIABQ	R10DIABQ:W10 Q-wording diabetes this wv	Categ
11	R11DIABQ	R11DIABQ:W11 Q-wording diabetes this wv	Categ
12	R12DIABQ	R12DIABQ:W12 Q-wording diabetes this wv	Categ
1	S1DIABQ	S1DIABQ:W1 Q-wording diabetes this wv	Categ
2	S2DIABQ	S2DIABQ:W2 Q-wording diabetes this wv	Categ
3	S3DIABQ	S3DIABQ:W3 Q-wording diabetes this wv	Categ
4	S4DIABQ	S4DIABQ:W4 Q-wording diabetes this wv	Categ
5	S5DIABQ	S5DIABQ:W5 Q-wording diabetes this wv	Categ
6	S6DIABQ	S6DIABQ:W6 Q-wording diabetes this wv	Categ
7	S7DIABQ	S7DIABQ:W7 Q-wording diabetes this wv	Categ
8	S8DIABQ	S8DIABQ:W8 Q-wording diabetes this wv	Categ
9	S9DIABQ	S9DIABQ:W9 Q-wording diabetes this wv	Categ
10	S10DIABQ	S10DIABQ:W10 Q-wording diabetes this wv	Categ
11	S11DIABQ	S11DIABQ:W11 Q-wording diabetes this wv	Categ
12	S12DIABQ	S12DIABQ:W12 Q-wording diabetes this wv	Categ
1	R1CANCER	R1CANCER:W1 R reports cancer this wv	Categ
2	R2CANCER	R2CANCER:W2 R reports cancer this wv	Categ
3	R3CANCER	R3CANCER:W3 R reports cancer this wv	Categ
4	R4CANCER	R4CANCER:W4 R reports cancer this wv	Categ
5	R5CANCER	R5CANCER:W5 R reports cancer this wv	Categ
6	R6CANCER	R6CANCER:W6 R reports cancer this wv	Categ
7	R7CANCER	R7CANCER:W7 R reports cancer this wv	Categ
8	R8CANCER	R8CANCER:W8 R reports cancer this wv	Categ
9	R9CANCER	R9CANCER:W9 R reports cancer this wv	Categ
10	R10CANCER	R10CANCER:W10 R reports cancer this wv	Categ
11	R11CANCER	R11CANCER:W11 R reports cancer this wv	Categ
12	R12CANCER	R12CANCER:W12 R reports cancer this wv	Categ
1	S1CANCER	S1CANCER:W1 S reports cancer this wv	Categ
2	S2CANCER	S2CANCER:W2 S reports cancer this wv	Categ
3	S3CANCER	S3CANCER:W3 S reports cancer this wv	Categ
4	S4CANCER	S4CANCER:W4 S reports cancer this wv	Categ
5	S5CANCER	S5CANCER:W5 S reports cancer this wv	Categ
6	S6CANCER	S6CANCER:W6 S reports cancer this wv	Categ
7	S7CANCER	S7CANCER:W7 S reports cancer this wv	Categ
8	S8CANCER	S8CANCER:W8 S reports cancer this wv	Categ
9	S9CANCER	S9CANCER:W9 S reports cancer this wv	Categ
10	S10CANCER	S10CANCER:W10 S reports cancer this wv	Categ
11	S11CANCER	S11CANCER:W11 S reports cancer this wv	Categ
12	S12CANCER	S12CANCER:W12 S reports cancer this wv	Categ
1	R1CANCERQ	R1CANCERQ:W1 Q-wording cancer this wv	Categ
2	R2CANCERQ	R2CANCERQ:W2 Q-wording cancer this wv	Categ
3	R3CANCERQ	R3CANCERQ:W3 Q-wording cancer this wv	Categ
4	R4CANCERQ	R4CANCERQ:W4 Q-wording cancer this wv	Categ
5	R5CANCERQ	R5CANCERQ:W5 Q-wording cancer this wv	Categ
6	R6CANCERQ	R6CANCERQ:W6 Q-wording cancer this wv	Categ
7	R7CANCERQ	R7CANCERQ:W7 Q-wording cancer this wv	Categ
8	R8CANCERQ	R8CANCERQ:W8 Q-wording cancer this wv	Categ

9	R9CANCRO	R9CANCRO:W9 Q-wording cancer this wv	Categ
10	R10CANCRO	R10CANCRO:W10 Q-wording cancer this wv	Categ
11	R11CANCRO	R11CANCRO:W11 Q-wording cancer this wv	Categ
12	R12CANCRO	R12CANCRO:W12 Q-wording cancer this wv	Categ
1	S1CANCRO	S1CANCRO:W1 Q-wording cancer this wv	Categ
2	S2CANCRO	S2CANCRO:W2 Q-wording cancer this wv	Categ
3	S3CANCRO	S3CANCRO:W3 Q-wording cancer this wv	Categ
4	S4CANCRO	S4CANCRO:W4 Q-wording cancer this wv	Categ
5	S5CANCRO	S5CANCRO:W5 Q-wording cancer this wv	Categ
6	S6CANCRO	S6CANCRO:W6 Q-wording cancer this wv	Categ
7	S7CANCRO	S7CANCRO:W7 Q-wording cancer this wv	Categ
8	S8CANCRO	S8CANCRO:W8 Q-wording cancer this wv	Categ
9	S9CANCRO	S9CANCRO:W9 Q-wording cancer this wv	Categ
10	S10CANCRO	S10CANCRO:W10 Q-wording cancer this wv	Categ
11	S11CANCRO	S11CANCRO:W11 Q-wording cancer this wv	Categ
12	S12CANCRO	S12CANCRO:W12 Q-wording cancer this wv	Categ
1	R1LUNG	R1LUNG:W1 R reports lung disease this wv	Categ
2	R2LUNG	R2LUNG:W2 R reports lung disease this wv	Categ
3	R3LUNG	R3LUNG:W3 R reports lung disease this wv	Categ
4	R4LUNG	R4LUNG:W4 R reports lung disease this wv	Categ
5	R5LUNG	R5LUNG:W5 R reports lung disease this wv	Categ
6	R6LUNG	R6LUNG:W6 R reports lung disease this wv	Categ
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9	R9LUNG	R9LUNG:W9 R reports lung disease this wv	Categ
10	R10LUNG	R10LUNG:W10 R reports lung disease this wv	Categ
11	R11LUNG	R11LUNG:W11 R reports lung disease this wv	Categ
12	R12LUNG	R12LUNG:W12 R reports lung disease this wv	Categ
1	S1LUNG	S1LUNG:W1 S reports lung disease this wv	Categ
2	S2LUNG	S2LUNG:W2 S reports lung disease this wv	Categ
3	S3LUNG	S3LUNG:W3 S reports lung disease this wv	Categ
4	S4LUNG	S4LUNG:W4 S reports lung disease this wv	Categ
5	S5LUNG	S5LUNG:W5 S reports lung disease this wv	Categ
6	S6LUNG	S6LUNG:W6 S reports lung disease this wv	Categ
7	S7LUNG	S7LUNG:W7 S reports lung disease this wv	Categ
8	S8LUNG	S8LUNG:W8 S reports lung disease this wv	Categ
9	S9LUNG	S9LUNG:W9 S reports lung disease this wv	Categ
10	S10LUNG	S10LUNG:W10 S reports lung disease this wv	Categ
11	S11LUNG	S11LUNG:W11 S reports lung disease this wv	Categ
12	S12LUNG	S12LUNG:W12 S reports lung disease this wv	Categ
1	R1LUNGQ	R1LUNGQ:W1 Q-wording lung disease this wv	Categ
2	R2LUNGQ	R2LUNGQ:W2 Q-wording lung disease this wv	Categ
3	R3LUNGQ	R3LUNGQ:W3 Q-wording lung disease this wv	Categ
4	R4LUNGQ	R4LUNGQ:W4 Q-wording lung disease this wv	Categ
5	R5LUNGQ	R5LUNGQ:W5 Q-wording lung disease this wv	Categ
6	R6LUNGQ	R6LUNGQ:W6 Q-wording lung disease this wv	Categ
7	R7LUNGQ	R7LUNGQ:W7 Q-wording lung disease this wv	Categ
8	R8LUNGQ	R8LUNGQ:W8 Q-wording lung disease this wv	Categ
9	R9LUNGQ	R9LUNGQ:W9 Q-wording lung disease this wv	Categ
10	R10LUNGQ	R10LUNGQ:W10 Q-wording lung disease this wv	Categ
11	R11LUNGQ	R11LUNGQ:W11 Q-wording lung disease this wv	Categ
12	R12LUNGQ	R12LUNGQ:W12 Q-wording lung disease this wv	Categ
1	S1LUNGQ	S1LUNGQ:W1 Q-wording lung disease this wv	Categ
2	S2LUNGQ	S2LUNGQ:W2 Q-wording lung disease this wv	Categ
3	S3LUNGQ	S3LUNGQ:W3 Q-wording lung disease this wv	Categ
4	S4LUNGQ	S4LUNGQ:W4 Q-wording lung disease this wv	Categ
5	S5LUNGQ	S5LUNGQ:W5 Q-wording lung disease this wv	Categ
6	S6LUNGQ	S6LUNGQ:W6 Q-wording lung disease this wv	Categ
7	S7LUNGQ	S7LUNGQ:W7 Q-wording lung disease this wv	Categ
8	S8LUNGQ	S8LUNGQ:W8 Q-wording lung disease this wv	Categ
9	S9LUNGQ	S9LUNGQ:W9 Q-wording lung disease this wv	Categ
10	S10LUNGQ	S10LUNGQ:W10 Q-wording lung disease this wv	Categ
11	S11LUNGQ	S11LUNGQ:W11 Q-wording lung disease this wv	Categ
12	S12LUNGQ	S12LUNGQ:W12 Q-wording lung disease this wv	Categ
1	R1HEART	R1HEART:W1 R reports heart prob this wv	Categ
2	R2HEART	R2HEART:W2 R reports heart prob this wv	Categ

3	R3HEART	R3HEART:W3 R reports heart prob this wv	Categ
4	R4HEART	R4HEART:W4 R reports heart prob this wv	Categ
5	R5HEART	R5HEART:W5 R reports heart prob this wv	Categ
6	R6HEART	R6HEART:W6 R reports heart prob this wv	Categ
7	R7HEART	R7HEART:W7 R reports heart prob this wv	Categ
8	R8HEART	R8HEART:W8 R reports heart prob this wv	Categ
9	R9HEART	R9HEART:W9 R reports heart prob this wv	Categ
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11	R11HEART	R11HEART:W11 R reports heart prob this wv	Categ
12	R12HEART	R12HEART:W12 R reports heart prob this wv	Categ
1	S1HEART	S1HEART:W1 S reports heart prob this wv	Categ
2	S2HEART	S2HEART:W2 S reports heart prob this wv	Categ
3	S3HEART	S3HEART:W3 S reports heart prob this wv	Categ
4	S4HEART	S4HEART:W4 S reports heart prob this wv	Categ
5	S5HEART	S5HEART:W5 S reports heart prob this wv	Categ
6	S6HEART	S6HEART:W6 S reports heart prob this wv	Categ
7	S7HEART	S7HEART:W7 S reports heart prob this wv	Categ
8	S8HEART	S8HEART:W8 S reports heart prob this wv	Categ
9	S9HEART	S9HEART:W9 S reports heart prob this wv	Categ
10	S10HEART	S10HEART:W10 S reports heart prob this wv	Categ
11	S11HEART	S11HEART:W11 S reports heart prob this wv	Categ
12	S12HEART	S12HEART:W12 S reports heart prob this wv	Categ
1	R1HEARTQ	R1HEARTQ:W1 Q-wording heart prob this wv	Categ
2	R2HEARTQ	R2HEARTQ:W2 Q-wording heart prob this wv	Categ
3	R3HEARTQ	R3HEARTQ:W3 Q-wording heart prob this wv	Categ
4	R4HEARTQ	R4HEARTQ:W4 Q-wording heart prob this wv	Categ
5	R5HEARTQ	R5HEARTQ:W5 Q-wording heart prob this wv	Categ
6	R6HEARTQ	R6HEARTQ:W6 Q-wording heart prob this wv	Categ
7	R7HEARTQ	R7HEARTQ:W7 Q-wording heart prob this wv	Categ
8	R8HEARTQ	R8HEARTQ:W8 Q-wording heart prob this wv	Categ
9	R9HEARTQ	R9HEARTQ:W9 Q-wording heart prob this wv	Categ
10	R10HEARTQ	R10HEARTQ:W10 Q-wording heart prob this wv	Categ
11	R11HEARTQ	R11HEARTQ:W11 Q-wording heart prob this wv	Categ
12	R12HEARTQ	R12HEARTQ:W12 Q-wording heart prob this wv	Categ
1	S1HEARTQ	S1HEARTQ:W1 Q-wording heart prob this wv	Categ
2	S2HEARTQ	S2HEARTQ:W2 Q-wording heart prob this wv	Categ
3	S3HEARTQ	S3HEARTQ:W3 Q-wording heart prob this wv	Categ
4	S4HEARTQ	S4HEARTQ:W4 Q-wording heart prob this wv	Categ
5	S5HEARTQ	S5HEARTQ:W5 Q-wording heart prob this wv	Categ
6	S6HEARTQ	S6HEARTQ:W6 Q-wording heart prob this wv	Categ
7	S7HEARTQ	S7HEARTQ:W7 Q-wording heart prob this wv	Categ
8	S8HEARTQ	S8HEARTQ:W8 Q-wording heart prob this wv	Categ
9	S9HEARTQ	S9HEARTQ:W9 Q-wording heart prob this wv	Categ
10	S10HEARTQ	S10HEARTQ:W10 Q-wording heart prob this wv	Categ
11	S11HEARTQ	S11HEARTQ:W11 Q-wording heart prob this wv	Categ
12	S12HEARTQ	S12HEARTQ:W12 Q-wording heart prob this wv	Categ
1	R1STROK	R1STROK:W1 R reports stroke this wv	Categ
2	R2STROK	R2STROK:W2 R reports stroke this wv	Categ
3	R3STROK	R3STROK:W3 R reports stroke this wv	Categ
4	R4STROK	R4STROK:W4 R reports stroke this wv	Categ
5	R5STROK	R5STROK:W5 R reports stroke this wv	Categ
6	R6STROK	R6STROK:W6 R reports stroke this wv	Categ
7	R7STROK	R7STROK:W7 R reports stroke this wv	Categ
8	R8STROK	R8STROK:W8 R reports stroke this wv	Categ
9	R9STROK	R9STROK:W9 R reports stroke this wv	Categ
10	R10STROK	R10STROK:W10 R reports stroke this wv	Categ
11	R11STROK	R11STROK:W11 R reports stroke this wv	Categ
12	R12STROK	R12STROK:W12 R reports stroke this wv	Categ
1	S1STROK	S1STROK:W1 S reports stroke this wv	Categ
2	S2STROK	S2STROK:W2 S reports stroke this wv	Categ
3	S3STROK	S3STROK:W3 S reports stroke this wv	Categ
4	S4STROK	S4STROK:W4 S reports stroke this wv	Categ
5	S5STROK	S5STROK:W5 S reports stroke this wv	Categ
6	S6STROK	S6STROK:W6 S reports stroke this wv	Categ
7	S7STROK	S7STROK:W7 S reports stroke this wv	Categ
8	S8STROK	S8STROK:W8 S reports stroke this wv	Categ
9	S9STROK	S9STROK:W9 S reports stroke this wv	Categ

10	S10STROK	S10STROK:W10 S reports stroke this wv	Categ
11	S11STROK	S11STROK:W11 S reports stroke this wv	Categ
12	S12STROK	S12STROK:W12 S reports stroke this wv	Categ
1	R1STROKQ	R1STROKQ:W1 Q-wording stroke this wv	Categ
2	R2STROKQ	R2STROKQ:W2 Q-wording stroke this wv	Categ
3	R3STROKQ	R3STROKQ:W3 Q-wording stroke this wv	Categ
4	R4STROKQ	R4STROKQ:W4 Q-wording stroke this wv	Categ
5	R5STROKQ	R5STROKQ:W5 Q-wording stroke this wv	Categ
6	R6STROKQ	R6STROKQ:W6 Q-wording stroke this wv	Categ
7	R7STROKQ	R7STROKQ:W7 Q-wording stroke this wv	Categ
8	R8STROKQ	R8STROKQ:W8 Q-wording stroke this wv	Categ
9	R9STROKQ	R9STROKQ:W9 Q-wording stroke this wv	Categ
10	R10STROKQ	R10STROKQ:W10 Q-wording stroke this wv	Categ
11	R11STROKQ	R11STROKQ:W11 Q-wording stroke this wv	Categ
12	R12STROKQ	R12STROKQ:W12 Q-wording stroke this wv	Categ
1	S1STROKQ	S1STROKQ:W1 Q-wording stroke this wv	Categ
2	S2STROKQ	S2STROKQ:W2 Q-wording stroke this wv	Categ
3	S3STROKQ	S3STROKQ:W3 Q-wording stroke this wv	Categ
4	S4STROKQ	S4STROKQ:W4 Q-wording stroke this wv	Categ
5	S5STROKQ	S5STROKQ:W5 Q-wording stroke this wv	Categ
6	S6STROKQ	S6STROKQ:W6 Q-wording stroke this wv	Categ
7	S7STROKQ	S7STROKQ:W7 Q-wording stroke this wv	Categ
8	S8STROKQ	S8STROKQ:W8 Q-wording stroke this wv	Categ
9	S9STROKQ	S9STROKQ:W9 Q-wording stroke this wv	Categ
10	S10STROKQ	S10STROKQ:W10 Q-wording stroke this wv	Categ
11	S11STROKQ	S11STROKQ:W11 Q-wording stroke this wv	Categ
12	S12STROKQ	S12STROKQ:W12 Q-wording stroke this wv	Categ
1	R1PSYCH	R1PSYCH:W1 R reports psych prob this wv	Categ
2	R2PSYCH	R2PSYCH:W2 R reports psych prob this wv	Categ
3	R3PSYCH	R3PSYCH:W3 R reports psych prob this wv	Categ
4	R4PSYCH	R4PSYCH:W4 R reports psych prob this wv	Categ
5	R5PSYCH	R5PSYCH:W5 R reports psych prob this wv	Categ
6	R6PSYCH	R6PSYCH:W6 R reports psych prob this wv	Categ
7	R7PSYCH	R7PSYCH:W7 R reports psych prob this wv	Categ
8	R8PSYCH	R8PSYCH:W8 R reports psych prob this wv	Categ
9	R9PSYCH	R9PSYCH:W9 R reports psych prob this wv	Categ
10	R10PSYCH	R10PSYCH:W10 R reports psych prob this wv	Categ
11	R11PSYCH	R11PSYCH:W11 R reports psych prob this wv	Categ
12	R12PSYCH	R12PSYCH:W12 R reports psych prob this wv	Categ
1	S1PSYCH	S1PSYCH:W1 S reports psych prob this wv	Categ
2	S2PSYCH	S2PSYCH:W2 S reports psych prob this wv	Categ
3	S3PSYCH	S3PSYCH:W3 S reports psych prob this wv	Categ
4	S4PSYCH	S4PSYCH:W4 S reports psych prob this wv	Categ
5	S5PSYCH	S5PSYCH:W5 S reports psych prob this wv	Categ
6	S6PSYCH	S6PSYCH:W6 S reports psych prob this wv	Categ
7	S7PSYCH	S7PSYCH:W7 S reports psych prob this wv	Categ
8	S8PSYCH	S8PSYCH:W8 S reports psych prob this wv	Categ
9	S9PSYCH	S9PSYCH:W9 S reports psych prob this wv	Categ
10	S10PSYCH	S10PSYCH:W10 S reports psych prob this wv	Categ
11	S11PSYCH	S11PSYCH:W11 S reports psych prob this wv	Categ
12	S12PSYCH	S12PSYCH:W12 S reports psych prob this wv	Categ
1	R1PSYCHQ	R1PSYCHQ:W1 Q-wording psych prob this wv	Categ
2	R2PSYCHQ	R2PSYCHQ:W2 Q-wording psych prob this wv	Categ
3	R3PSYCHQ	R3PSYCHQ:W3 Q-wording psych prob this wv	Categ
4	R4PSYCHQ	R4PSYCHQ:W4 Q-wording psych prob this wv	Categ
5	R5PSYCHQ	R5PSYCHQ:W5 Q-wording psych prob this wv	Categ
6	R6PSYCHQ	R6PSYCHQ:W6 Q-wording psych prob this wv	Categ
7	R7PSYCHQ	R7PSYCHQ:W7 Q-wording psych prob this wv	Categ
8	R8PSYCHQ	R8PSYCHQ:W8 Q-wording psych prob this wv	Categ
9	R9PSYCHQ	R9PSYCHQ:W9 Q-wording psych prob this wv	Categ
10	R10PSYCHQ	R10PSYCHQ:W10 Q-wording psych prob this wv	Categ
11	R11PSYCHQ	R11PSYCHQ:W11 Q-wording psych prob this wv	Categ
12	R12PSYCHQ	R12PSYCHQ:W12 Q-wording psych prob this wv	Categ
1	S1PSYCHQ	S1PSYCHQ:W1 Q-wording psych prob this wv	Categ
2	S2PSYCHQ	S2PSYCHQ:W2 Q-wording psych prob this wv	Categ
3	S3PSYCHQ	S3PSYCHQ:W3 Q-wording psych prob this wv	Categ



4	S4PSYCHQ	S4PSYCHQ:W4 Q-wording psych prob this wv	Categ
5	S5PSYCHQ	S5PSYCHQ:W5 Q-wording psych prob this wv	Categ
6	S6PSYCHQ	S6PSYCHQ:W6 Q-wording psych prob this wv	Categ
7	S7PSYCHQ	S7PSYCHQ:W7 Q-wording psych prob this wv	Categ
8	S8PSYCHQ	S8PSYCHQ:W8 Q-wording psych prob this wv	Categ
9	S9PSYCHQ	S9PSYCHQ:W9 Q-wording psych prob this wv	Categ
10	S10PSYCHQ	S10PSYCHQ:W10 Q-wording psych prob this wv	Categ
11	S11PSYCHQ	S11PSYCHQ:W11 Q-wording psych prob this wv	Categ
12	S12PSYCHQ	S12PSYCHQ:W12 Q-wording psych prob this wv	Categ
1	R1ARTHR	R1ARTHR:W1 R reports arthritis this wv	Categ
2	R2ARTHR	R2ARTHR:W2 R reports arthritis this wv	Categ
3	R3ARTHR	R3ARTHR:W3 R reports arthritis this wv	Categ
4	R4ARTHR	R4ARTHR:W4 R reports arthritis this wv	Categ
5	R5ARTHR	R5ARTHR:W5 R reports arthritis this wv	Categ
6	R6ARTHR	R6ARTHR:W6 R reports arthritis this wv	Categ
7	R7ARTHR	R7ARTHR:W7 R reports arthritis this wv	Categ
8	R8ARTHR	R8ARTHR:W8 R reports arthritis this wv	Categ
9	R9ARTHR	R9ARTHR:W9 R reports arthritis this wv	Categ
10	R10ARTHR	R10ARTHR:W10 R reports arthritis this wv	Categ
11	R11ARTHR	R11ARTHR:W11 R reports arthritis this wv	Categ
12	R12ARTHR	R12ARTHR:W12 R reports arthritis this wv	Categ
1	S1ARTHR	S1ARTHR:W1 S reports arthritis this wv	Categ
2	S2ARTHR	S2ARTHR:W2 S reports arthritis this wv	Categ
3	S3ARTHR	S3ARTHR:W3 S reports arthritis this wv	Categ
4	S4ARTHR	S4ARTHR:W4 S reports arthritis this wv	Categ
5	S5ARTHR	S5ARTHR:W5 S reports arthritis this wv	Categ
6	S6ARTHR	S6ARTHR:W6 S reports arthritis this wv	Categ
7	S7ARTHR	S7ARTHR:W7 S reports arthritis this wv	Categ
8	S8ARTHR	S8ARTHR:W8 S reports arthritis this wv	Categ
9	S9ARTHR	S9ARTHR:W9 S reports arthritis this wv	Categ
10	S10ARTHR	S10ARTHR:W10 S reports arthritis this wv	Categ
11	S11ARTHR	S11ARTHR:W11 S reports arthritis this wv	Categ
12	S12ARTHR	S12ARTHR:W12 S reports arthritis this wv	Categ
1	R1ARTHRQ	R1ARTHRQ:W1 Q-wording arthritis this wv	Categ
2	R2ARTHRQ	R2ARTHRQ:W2 Q-wording arthritis this wv	Categ
3	R3ARTHRQ	R3ARTHRQ:W3 Q-wording arthritis this wv	Categ
4	R4ARTHRQ	R4ARTHRQ:W4 Q-wording arthritis this wv	Categ
5	R5ARTHRQ	R5ARTHRQ:W5 Q-wording arthritis this wv	Categ
6	R6ARTHRQ	R6ARTHRQ:W6 Q-wording arthritis this wv	Categ
7	R7ARTHRQ	R7ARTHRQ:W7 Q-wording arthritis this wv	Categ
8	R8ARTHRQ	R8ARTHRQ:W8 Q-wording arthritis this wv	Categ
9	R9ARTHRQ	R9ARTHRQ:W9 Q-wording arthritis this wv	Categ
10	R10ARTHRQ	R10ARTHRQ:W10 Q-wording arthritis this wv	Categ
11	R11ARTHRQ	R11ARTHRQ:W11 Q-wording arthritis this wv	Categ
12	R12ARTHRQ	R12ARTHRQ:W12 Q-wording arthritis this wv	Categ
1	S1ARTHRQ	S1ARTHRQ:W1 Q-wording arthritis this wv	Categ
2	S2ARTHRQ	S2ARTHRQ:W2 Q-wording arthritis this wv	Categ
3	S3ARTHRQ	S3ARTHRQ:W3 Q-wording arthritis this wv	Categ
4	S4ARTHRQ	S4ARTHRQ:W4 Q-wording arthritis this wv	Categ
5	S5ARTHRQ	S5ARTHRQ:W5 Q-wording arthritis this wv	Categ
6	S6ARTHRQ	S6ARTHRQ:W6 Q-wording arthritis this wv	Categ
7	S7ARTHRQ	S7ARTHRQ:W7 Q-wording arthritis this wv	Categ
8	S8ARTHRQ	S8ARTHRQ:W8 Q-wording arthritis this wv	Categ
9	S9ARTHRQ	S9ARTHRQ:W9 Q-wording arthritis this wv	Categ
10	S10ARTHRQ	S10ARTHRQ:W10 Q-wording arthritis this wv	Categ
11	S11ARTHRQ	S11ARTHRQ:W11 Q-wording arthritis this wv	Categ
12	S12ARTHRQ	S12ARTHRQ:W12 Q-wording arthritis this wv	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBP	12652	0.38	0.49	0.0	1.0

R2HIBP	15364	0.30	0.46	0.0	1.0
R3HIBP	17981	0.60	0.90	0.0	5.0
R4HIBP	21369	0.54	0.74	0.0	5.0
R5HIBP	19566	0.55	0.65	0.0	4.0
R6HIBP	18147	0.58	0.62	0.0	4.0
R7HIBP	20100	0.58	0.62	0.0	4.0
R8HIBP	18437	0.62	0.62	0.0	4.0
R9HIBP	17191	0.65	0.61	0.0	4.0
R10HIBP	21987	0.62	0.59	0.0	4.0
R11HIBP	20515	0.66	0.62	0.0	4.0
R12HIBP	18716	0.67	0.59	0.0	4.0
S1HIBP	9900	0.37	0.48	0.0	1.0
S2HIBP	9964	0.25	0.43	0.0	1.0
S3HIBP	11909	0.57	0.89	0.0	5.0
S4HIBP	13970	0.50	0.71	0.0	5.0
S5HIBP	12726	0.52	0.64	0.0	4.0
S6HIBP	11633	0.55	0.62	0.0	4.0
S7HIBP	12964	0.54	0.61	0.0	4.0
S8HIBP	11726	0.58	0.61	0.0	4.0
S9HIBP	10635	0.61	0.60	0.0	4.0
S10HIBP	13497	0.58	0.58	0.0	4.0
S11HIBP	12469	0.62	0.62	0.0	4.0
S12HIBP	11014	0.63	0.60	0.0	4.0
R1HIBPQ	12652	1.00	0.00	1.0	1.0
R2HIBPQ	19642	2.10	1.45	1.0	15.0
R3HIBPQ	17991	2.43	0.58	1.0	16.0
R4HIBPQ	21384	2.11	0.80	1.0	16.0
R5HIBPQ	19579	2.44	0.55	1.0	15.0
R6HIBPQ	18165	2.62	0.80	1.0	12.0
R7HIBPQ	20129	2.38	0.94	1.0	13.0
R8HIBPQ	18469	2.65	0.78	1.0	12.0
R9HIBPQ	17217	2.66	0.72	1.0	5.0
R10HIBPQ	22034	2.23	1.02	1.0	11.0
R11HIBPQ	20554	2.73	1.13	1.0	16.0
R12HIBPQ	18747	2.69	0.86	1.0	16.0
S1HIBPQ	9900	1.00	0.00	1.0	1.0
S2HIBPQ	13088	2.25	1.47	1.0	15.0
S3HIBPQ	11915	2.39	0.53	1.0	11.0
S4HIBPQ	13978	2.07	0.82	1.0	16.0
S5HIBPQ	12730	2.40	0.56	1.0	15.0
S6HIBPQ	11639	2.58	0.81	1.0	12.0
S7HIBPQ	12972	2.33	0.95	1.0	13.0
S8HIBPQ	11735	2.62	0.81	1.0	12.0
S9HIBPQ	10646	2.62	0.73	1.0	5.0
S10HIBPQ	13513	2.18	1.01	1.0	11.0
S11HIBPQ	12488	2.70	1.18	1.0	16.0
S12HIBPQ	11027	2.64	0.84	1.0	15.0
R1DIAB	12652	0.11	0.31	0.0	1.0
R2DIAB	18428	0.07	0.26	0.0	1.0
R3DIAB	17979	0.18	0.58	0.0	5.0
R4DIAB	21372	0.17	0.49	0.0	5.0
R5DIAB	19571	0.18	0.46	0.0	4.0
R6DIAB	18157	0.19	0.45	0.0	4.0
R7DIAB	20108	0.20	0.47	0.0	4.0
R8DIAB	18449	0.22	0.49	0.0	4.0

R9DIAB	17199	0.24	0.51	0.0	4.0
R10DIAB	22013	0.25	0.50	0.0	4.0
R11DIAB	20536	0.28	0.56	0.0	4.0
R12DIAB	18732	0.28	0.54	0.0	4.0
S1DIAB	9900	0.10	0.30	0.0	1.0
S2DIAB	12228	0.06	0.24	0.0	1.0
S3DIAB	11909	0.18	0.58	0.0	5.0
S4DIAB	13975	0.16	0.48	0.0	5.0
S5DIAB	12726	0.17	0.45	0.0	4.0
S6DIAB	11635	0.18	0.44	0.0	4.0
S7DIAB	12965	0.19	0.46	0.0	4.0
S8DIAB	11728	0.21	0.49	0.0	4.0
S9DIAB	10638	0.23	0.49	0.0	4.0
S10DIAB	13508	0.24	0.48	0.0	4.0
S11DIAB	12479	0.27	0.55	0.0	4.0
S12DIAB	11025	0.27	0.52	0.0	4.0
R1DIABQ	12652	1.00	0.00	1.0	1.0
R2DIABQ	19642	1.77	1.10	1.0	15.0
R3DIABQ	17991	2.11	0.38	1.0	16.0
R4DIABQ	21384	1.87	0.62	1.0	16.0
R5DIABQ	19579	2.12	0.39	1.0	11.0
R6DIABQ	18165	2.30	0.79	1.0	12.0
R7DIABQ	20129	2.10	0.86	1.0	12.0
R8DIABQ	18469	2.32	0.77	1.0	12.0
R9DIABQ	17217	2.32	0.72	1.0	5.0
R10DIABQ	22034	1.97	0.91	1.0	11.0
R11DIABQ	20554	2.44	1.38	1.0	15.0
R12DIABQ	18747	2.39	1.20	1.0	16.0
S1DIABQ	9900	1.00	0.00	1.0	1.0
S2DIABQ	13088	1.89	1.17	1.0	15.0
S3DIABQ	11915	2.10	0.36	1.0	11.0
S4DIABQ	13978	1.85	0.62	1.0	16.0
S5DIABQ	12730	2.11	0.40	1.0	11.0
S6DIABQ	11639	2.28	0.79	1.0	12.0
S7DIABQ	12972	2.07	0.87	1.0	12.0
S8DIABQ	11735	2.31	0.80	1.0	12.0
S9DIABQ	10646	2.29	0.71	1.0	5.0
S10DIABQ	13513	1.94	0.91	1.0	11.0
S11DIABQ	12488	2.44	1.45	1.0	15.0
S12DIABQ	11027	2.38	1.24	1.0	16.0
R1CANCER	12652	0.06	0.23	0.0	1.0
R2CANCER	19050	0.07	0.25	0.0	1.0
R3CANCER	17978	0.13	0.46	0.0	5.0
R4CANCER	21373	0.12	0.41	0.0	5.0
R5CANCER	19564	0.13	0.40	0.0	4.0
R6CANCER	18158	0.15	0.39	0.0	4.0
R7CANCER	20113	0.14	0.40	0.0	4.0
R8CANCER	18452	0.16	0.41	0.0	4.0
R9CANCER	17205	0.17	0.43	0.0	4.0
R10CANCER	22014	0.15	0.39	0.0	4.0
R11CANCER	20538	0.16	0.42	0.0	4.0
R12CANCER	18730	0.17	0.42	0.0	4.0
S1CANCER	9900	0.05	0.23	0.0	1.0
S2CANCER	12659	0.06	0.23	0.0	1.0

S3CANCER	11905	0.12	0.45	0.0	5.0
S4CANCER	13974	0.11	0.37	0.0	5.0
S5CANCER	12725	0.13	0.39	0.0	4.0
S6CANCER	11633	0.14	0.38	0.0	4.0
S7CANCER	12964	0.13	0.38	0.0	4.0
S8CANCER	11728	0.14	0.38	0.0	4.0
S9CANCER	10639	0.16	0.42	0.0	4.0
S10CANCER	13502	0.14	0.37	0.0	4.0
S11CANCER	12479	0.15	0.40	0.0	4.0
S12CANCER	11019	0.16	0.41	0.0	4.0
R1CANCERQ	12652	1.00	0.00	1.0	1.0
R2CANCERQ	19642	1.71	1.01	1.0	15.0
R3CANCERQ	17991	2.08	0.46	1.0	16.0
R4CANCERQ	21384	1.84	0.58	1.0	16.0
R5CANCERQ	19579	2.09	0.35	1.0	11.0
R6CANCERQ	18165	2.27	0.78	1.0	12.0
R7CANCERQ	20129	2.07	0.85	1.0	16.0
R8CANCERQ	18469	2.28	0.76	1.0	12.0
R9CANCERQ	17217	2.26	0.72	1.0	16.0
R10CANCERQ	22034	1.93	0.88	1.0	11.0
R11CANCERQ	20554	2.30	1.10	1.0	16.0
R12CANCERQ	18747	2.24	0.72	1.0	16.0
S1CANCERQ	9900	1.00	0.00	1.0	1.0
S2CANCERQ	13088	1.83	1.11	1.0	15.0
S3CANCERQ	11915	2.06	0.43	1.0	16.0
S4CANCERQ	13978	1.82	0.58	1.0	16.0
S5CANCERQ	12730	2.08	0.36	1.0	11.0
S6CANCERQ	11639	2.25	0.78	1.0	12.0
S7CANCERQ	12972	2.04	0.86	1.0	16.0
S8CANCERQ	11735	2.27	0.78	1.0	12.0
S9CANCERQ	10646	2.25	0.72	1.0	16.0
S10CANCERQ	13513	1.90	0.88	1.0	11.0
S11CANCERQ	12488	2.30	1.16	1.0	16.0
S12CANCERQ	11027	2.22	0.73	1.0	15.0
R1LUNG	12652	0.08	0.27	0.0	1.0
R2LUNG	18754	0.06	0.24	0.0	1.0
R3LUNG	17984	0.17	0.66	0.0	5.0
R4LUNG	21377	0.14	0.56	0.0	5.0
R5LUNG	19566	0.13	0.48	0.0	4.0
R6LUNG	18155	0.12	0.40	0.0	4.0
R7LUNG	20116	0.12	0.43	0.0	4.0
R8LUNG	18448	0.13	0.44	0.0	4.0
R9LUNG	17206	0.13	0.44	0.0	4.0
R10LUNG	22017	0.12	0.39	0.0	4.0
R11LUNG	20544	0.13	0.44	0.0	4.0
R12LUNG	18729	0.13	0.42	0.0	4.0
S1LUNG	9900	0.08	0.26	0.0	1.0
S2LUNG	12468	0.05	0.22	0.0	1.0
S3LUNG	11911	0.16	0.63	0.0	5.0
S4LUNG	13976	0.13	0.54	0.0	5.0
S5LUNG	12723	0.11	0.45	0.0	4.0
S6LUNG	11633	0.10	0.37	0.0	4.0
S7LUNG	12969	0.11	0.42	0.0	4.0
S8LUNG	11727	0.11	0.41	0.0	4.0
S9LUNG	10639	0.11	0.40	0.0	4.0

S10LUNG	13507	0.10	0.36	0.0	4.0
S11LUNG	12484	0.11	0.39	0.0	4.0
S12LUNG	11022	0.11	0.39	0.0	4.0
R1LUNGQ	12652	1.00	0.00	1.0	1.0
R2LUNGQ	19642	1.73	1.03	1.0	15.0
R3LUNGQ	17991	2.08	0.36	1.0	15.0
R4LUNGQ	21384	1.84	0.68	1.0	16.0
R5LUNGQ	19579	2.07	0.34	1.0	11.0
R6LUNGQ	18165	2.25	0.78	1.0	15.0
R7LUNGQ	20129	2.04	0.83	1.0	13.0
R8LUNGQ	18469	2.24	0.75	1.0	12.0
R9LUNGQ	17217	2.22	0.69	1.0	5.0
R10LUNGQ	22034	1.90	0.86	1.0	11.0
R11LUNGQ	20554	2.28	1.15	1.0	16.0
R12LUNGQ	18747	2.21	0.84	1.0	16.0
S1LUNGQ	9900	1.00	0.00	1.0	1.0
S2LUNGQ	13088	1.85	1.12	1.0	15.0
S3LUNGQ	11915	2.07	0.33	1.0	11.0
S4LUNGQ	13978	1.83	0.68	1.0	16.0
S5LUNGQ	12730	2.06	0.34	1.0	11.0
S6LUNGQ	11639	2.22	0.78	1.0	15.0
S7LUNGQ	12972	2.01	0.83	1.0	13.0
S8LUNGQ	11735	2.23	0.77	1.0	12.0
S9LUNGQ	10646	2.20	0.67	1.0	5.0
S10LUNGQ	13513	1.87	0.86	1.0	11.0
S11LUNGQ	12488	2.27	1.19	1.0	16.0
S12LUNGQ	11027	2.19	0.85	1.0	16.0
R1HEART	12652	0.13	0.34	0.0	1.0
R2HEART	19632	0.16	0.37	0.0	1.0
R3HEART	17986	0.30	0.71	0.0	5.0
R4HEART	21371	0.39	1.06	0.0	6.0
R5HEART	19571	0.26	0.54	0.0	4.0
R6HEART	18153	0.28	0.53	0.0	4.0
R7HEART	20108	0.27	0.53	0.0	4.0
R8HEART	18449	0.29	0.57	0.0	4.0
R9HEART	17199	0.31	0.58	0.0	4.0
R10HEART	22013	0.26	0.52	0.0	4.0
R11HEART	20535	0.27	0.55	0.0	4.0
R12HEART	18723	0.28	0.54	0.0	4.0
S1HEART	9900	0.13	0.34	0.0	1.0
S2HEART	13084	0.14	0.34	0.0	1.0
S3HEART	11913	0.27	0.68	0.0	5.0
S4HEART	13973	0.33	0.95	0.0	6.0
S5HEART	12727	0.24	0.52	0.0	4.0
S6HEART	11633	0.25	0.50	0.0	4.0
S7HEART	12965	0.24	0.51	0.0	4.0
S8HEART	11731	0.27	0.54	0.0	4.0
S9HEART	10636	0.28	0.55	0.0	4.0
S10HEART	13503	0.24	0.50	0.0	4.0
S11HEART	12479	0.25	0.51	0.0	4.0
S12HEART	11017	0.26	0.52	0.0	4.0
R1HEARTQ	12652	1.00	0.00	1.0	1.0
R2HEARTQ	19642	1.99	1.76	1.0	19.0
R3HEARTQ	17991	2.19	0.48	1.0	16.0

R4HEARTQ	21384	2.45	2.75	1.0	16.0
R5HEARTQ	19579	2.18	0.46	1.0	15.0
R6HEARTQ	18165	2.52	1.65	1.0	16.0
R7HEARTQ	20129	2.15	0.89	1.0	16.0
R8HEARTQ	18469	2.37	0.78	1.0	12.0
R9HEARTQ	17217	2.36	0.74	1.0	16.0
R10HEARTQ	22034	1.99	0.92	1.0	11.0
R11HEARTQ	20554	2.41	1.24	1.0	15.0
R12HEARTQ	18747	2.34	0.90	1.0	15.0
S1HEARTQ	9900	1.00	0.00	1.0	1.0
S2HEARTQ	13088	2.14	1.85	1.0	19.0
S3HEARTQ	11915	2.17	0.45	1.0	15.0
S4HEARTQ	13978	2.28	2.38	1.0	16.0
S5HEARTQ	12730	2.16	0.47	1.0	15.0
S6HEARTQ	11639	2.44	1.43	1.0	16.0
S7HEARTQ	12972	2.11	0.89	1.0	13.0
S8HEARTQ	11735	2.35	0.81	1.0	12.0
S9HEARTQ	10646	2.33	0.72	1.0	5.0
S10HEARTQ	13513	1.96	0.92	1.0	11.0
S11HEARTQ	12488	2.40	1.28	1.0	15.0
S12HEARTQ	11027	2.31	0.87	1.0	15.0
R1STROK	12652	0.03	0.17	0.0	1.0
R2STROK	19315	0.06	0.26	0.0	2.0
R3STROK	17983	0.09	0.42	0.0	5.0
R4STROK	21376	0.09	0.39	0.0	5.0
R5STROK	19572	0.09	0.34	0.0	4.0
R6STROK	18155	0.09	0.33	0.0	4.0
R7STROK	20122	0.09	0.33	0.0	4.0
R8STROK	18454	0.09	0.35	0.0	4.0
R9STROK	17203	0.10	0.35	0.0	4.0
R10STROK	22020	0.09	0.33	0.0	4.0
R11STROK	20543	0.09	0.35	0.0	4.0
R12STROK	18727	0.10	0.35	0.0	4.0
S1STROK	9900	0.03	0.17	0.0	1.0
S2STROK	12846	0.04	0.23	0.0	2.0
S3STROK	11911	0.08	0.38	0.0	5.0
S4STROK	13975	0.08	0.35	0.0	5.0
S5STROK	12727	0.07	0.31	0.0	4.0
S6STROK	11635	0.07	0.31	0.0	4.0
S7STROK	12970	0.07	0.29	0.0	4.0
S8STROK	11729	0.08	0.31	0.0	4.0
S9STROK	10640	0.08	0.30	0.0	4.0
S10STROK	13506	0.07	0.28	0.0	4.0
S11STROK	12483	0.08	0.32	0.0	4.0
S12STROK	11020	0.08	0.32	0.0	4.0
R1STROKQ	12652	1.00	0.00	1.0	1.0
R2STROKQ	19642	1.68	0.98	1.0	15.0
R3STROKQ	17991	2.12	1.08	1.0	16.0
R4STROKQ	21384	1.84	0.82	1.0	15.0
R5STROKQ	19579	2.13	1.10	1.0	15.0
R6STROKQ	18165	2.28	1.16	1.0	15.0
R7STROKQ	20129	2.08	1.22	1.0	15.0
R8STROKQ	18469	2.28	1.18	1.0	15.0
R9STROKQ	17217	2.26	1.13	1.0	15.0
R10STROKQ	22034	1.92	1.18	1.0	15.0

R11STROKQ	20554	2.29	1.34	1.0	16.0
R12STROKQ	18747	2.21	1.03	1.0	15.0
S1STROKQ	9900	1.00	0.00	1.0	1.0
S2STROKQ	13088	1.79	1.04	1.0	12.0
S3STROKQ	11915	2.08	0.93	1.0	15.0
S4STROKQ	13978	1.81	0.71	1.0	15.0
S5STROKQ	12730	2.10	1.00	1.0	15.0
S6STROKQ	11639	2.25	1.10	1.0	15.0
S7STROKQ	12972	2.04	1.18	1.0	15.0
S8STROKQ	11735	2.26	1.14	1.0	15.0
S9STROKQ	10646	2.22	1.08	1.0	15.0
S10STROKQ	13513	1.88	1.11	1.0	15.0
S11STROKQ	12488	2.27	1.35	1.0	16.0
S12STROKQ	11027	2.19	1.01	1.0	15.0
R1PSYCH	12652	0.11	0.31	0.0	1.0
R2PSYCH	18442	0.07	0.26	0.0	1.0
R3PSYCH	17978	0.25	0.81	0.0	5.0
R4PSYCH	21371	0.21	0.66	0.0	5.0
R5PSYCH	19570	0.21	0.58	0.0	4.0
R6PSYCH	18155	0.20	0.52	0.0	4.0
R7PSYCH	20098	0.21	0.56	0.0	4.0
R8PSYCH	18447	0.22	0.55	0.0	4.0
R9PSYCH	17199	0.22	0.55	0.0	4.0
R10PSYCH	21998	0.21	0.51	0.0	4.0
R11PSYCH	20523	0.23	0.54	0.0	4.0
R12PSYCH	18717	0.23	0.53	0.0	4.0
S1PSYCH	9900	0.09	0.29	0.0	1.0
S2PSYCH	12320	0.06	0.24	0.0	1.0
S3PSYCH	11911	0.23	0.78	0.0	5.0
S4PSYCH	13970	0.18	0.62	0.0	5.0
S5PSYCH	12727	0.18	0.55	0.0	4.0
S6PSYCH	11635	0.17	0.49	0.0	4.0
S7PSYCH	12953	0.18	0.52	0.0	4.0
S8PSYCH	11725	0.19	0.51	0.0	4.0
S9PSYCH	10637	0.19	0.52	0.0	4.0
S10PSYCH	13502	0.18	0.46	0.0	4.0
S11PSYCH	12474	0.19	0.49	0.0	4.0
S12PSYCH	11015	0.19	0.49	0.0	4.0
R1PSYCHQ	12652	1.00	0.00	1.0	1.0
R2PSYCHQ	19642	1.77	1.11	1.0	15.0
R3PSYCHQ	17991	2.12	0.55	1.0	16.0
R4PSYCHQ	21384	1.87	0.66	1.0	16.0
R5PSYCHQ	19579	2.13	0.44	1.0	16.0
R6PSYCHQ	18165	2.30	0.79	1.0	16.0
R7PSYCHQ	20129	2.09	0.86	1.0	13.0
R8PSYCHQ	18469	2.31	0.77	1.0	12.0
R9PSYCHQ	17217	2.29	0.71	1.0	5.0
R10PSYCHQ	22034	1.95	0.90	1.0	11.0
R11PSYCHQ	20554	2.35	1.12	1.0	16.0
R12PSYCHQ	18747	2.29	0.80	1.0	15.0
S1PSYCHQ	9900	1.00	0.00	1.0	1.0
S2PSYCHQ	13088	1.88	1.16	1.0	15.0
S3PSYCHQ	11915	2.11	0.53	1.0	16.0
S4PSYCHQ	13978	1.85	0.66	1.0	16.0

S5PSYCHQ	12730	2.10	0.39	1.0	11.0
S6PSYCHQ	11639	2.27	0.78	1.0	12.0
S7PSYCHQ	12972	2.05	0.86	1.0	13.0
S8PSYCHQ	11735	2.28	0.79	1.0	12.0
S9PSYCHQ	10646	2.26	0.70	1.0	5.0
S10PSYCHQ	13513	1.91	0.88	1.0	11.0
S11PSYCHQ	12488	2.33	1.17	1.0	16.0
S12PSYCHQ	11027	2.25	0.74	1.0	15.0
R1ARTHR	12652	0.38	0.48	0.0	1.0
R2ARTHR	15390	0.20	0.40	0.0	1.0
R3ARTHR	17982	0.61	0.82	0.0	5.0
R4ARTHR	21362	0.60	0.74	0.0	5.0
R5ARTHR	19564	0.64	0.66	0.0	4.0
R6ARTHR	18139	0.65	0.63	0.0	4.0
R7ARTHR	20104	0.63	0.63	0.0	4.0
R8ARTHR	18450	0.65	0.62	0.0	4.0
R9ARTHR	17190	0.69	0.65	0.0	4.0
R10ARTHR	21992	0.59	0.60	0.0	4.0
R11ARTHR	20527	0.62	0.63	0.0	4.0
R12ARTHR	18712	0.64	0.61	0.0	4.0
S1ARTHR	9900	0.36	0.48	0.0	1.0
S2ARTHR	10007	0.17	0.37	0.0	1.0
S3ARTHR	11908	0.59	0.84	0.0	5.0
S4ARTHR	13968	0.57	0.74	0.0	5.0
S5ARTHR	12722	0.60	0.66	0.0	4.0
S6ARTHR	11626	0.62	0.63	0.0	4.0
S7ARTHR	12959	0.59	0.63	0.0	4.0
S8ARTHR	11730	0.61	0.61	0.0	4.0
S9ARTHR	10632	0.65	0.66	0.0	4.0
S10ARTHR	13497	0.55	0.60	0.0	4.0
S11ARTHR	12477	0.58	0.63	0.0	4.0
S12ARTHR	11016	0.59	0.61	0.0	4.0
R1ARTHRQ	12652	1.00	0.00	1.0	1.0
R2ARTHRQ	19642	2.09	1.43	1.0	15.0
R3ARTHRQ	17991	2.36	0.54	1.0	15.0
R4ARTHRQ	21384	2.15	0.81	1.0	16.0
R5ARTHRQ	19579	2.50	0.54	1.0	11.0
R6ARTHRQ	18165	2.69	0.81	1.0	15.0
R7ARTHRQ	20129	2.44	0.95	1.0	13.0
R8ARTHRQ	18469	2.69	0.77	1.0	12.0
R9ARTHRQ	17217	2.70	0.72	1.0	5.0
R10ARTHRQ	22034	2.24	1.02	1.0	11.0
R11ARTHRQ	20554	2.70	1.12	1.0	16.0
R12ARTHRQ	18747	2.64	0.76	1.0	16.0
S1ARTHRQ	9900	1.00	0.00	1.0	1.0
S2ARTHRQ	13088	2.24	1.47	1.0	15.0
S3ARTHRQ	11915	2.34	0.52	1.0	11.0
S4ARTHRQ	13978	2.11	0.82	1.0	16.0
S5ARTHRQ	12730	2.46	0.56	1.0	11.0
S6ARTHRQ	11639	2.64	0.82	1.0	15.0
S7ARTHRQ	12972	2.38	0.96	1.0	13.0
S8ARTHRQ	11735	2.66	0.80	1.0	12.0
S9ARTHRQ	10646	2.65	0.72	1.0	5.0
S10ARTHRQ	13513	2.19	1.02	1.0	11.0
S11ARTHRQ	12488	2.67	1.20	1.0	16.0



S12ARTHRQ 11027 2.60 0.77 1.0 16.0

### Categorical Variable Codes

Value	R1HIBP	R2HIBP	R3HIBP	R4HIBP	R5HIBP	R6HIBP	R7HIBP
.D=DK/NA		11	7	15	11	17	26
.M=Oth missing			2				
.P=Preload yes,but no prv w		1					
.R=RF		1	1		2	1	3
.Y=Via preload+yes prev wv		4265					
0.No	7784	10699	9172	11096	9605	8318	9198
1.Yes	4868	4665	8301	9948	9663	9611	10667
3.Disp prev record and has					7	5	4
4.Disp prev record and no c					291	213	231
5.Disp prev record (DK if c			508	325			

Value	R8HIBP	R9HIBP	R10HIBP	R11HIBP	R12HIBP
.D=DK/NA	30	22	45	35	29
.M=Oth missing	1			1	
.R=RF	1	4	2	3	2
0.No	7681	6583	8922	7801	6838
1.Yes	10531	10394	12860	12440	11672
3.Disp prev record and has	5	9	11	10	13
4.Disp prev record and no c	220	205	194	264	193

Value	S1HIBP	S2HIBP	S3HIBP	S4HIBP	S5HIBP	S6HIBP	S7HIBP
.D=DK/NA		4	4	8	3	5	7
.M=Oth missing			2				
.R=RF					1	1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		3120					
0.No	6260	7478	6456	7683	6615	5635	6352
1.Yes	3640	2486	5131	6106	5938	5861	6473
3.Disp prev record and has					5	1	3
4.Disp prev record and no c					168	136	136
5.Disp prev record (DK if c			322	181			

Value	S8HIBP	S9HIBP	S10HIBP	S11HIBP	S12HIBP
.D=DK/NA	8	8	15	15	12
.M=Oth missing				1	
.R=RF	1	3	1	3	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5299	4447	5955	5165	4462
1.Yes	6303	6071	7432	7145	6437
3.Disp prev record and has	3	6	5	4	10
4.Disp prev record and no c	121	111	105	155	105

Value	R1HIBPQ	R2HIBPQ	R3HIBPQ	R4HIBPQ	R5HIBPQ	R6HIBPQ	R7HIBPQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		7015	9787	8920	10499	8689	7488
3.ReIvw,Cond: last time sai			7926	7363	8809	8171	8205
4.ReIvw,Cond: skip question		4265					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		37	5	3	1		
16.ReIvw,NoCond BUT Pre=Con			1	4			

Value	R8HIBPQ	R9HIBPQ	R10HIBPQ	R11HIBPQ	R12HIBPQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	8109	7155	6011	8090	7190
3.ReIvw,Cond: last time sai	9126	9103	8696	11170	10685
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				21	33
16.ReIvw,NoCond BUT Pre=Con				1	1

Value	S1HIBPQ	S2HIBPQ	S3HIBPQ	S4HIBPQ	S5HIBPQ	S6HIBPQ	S7HIBPQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		5501	6771	6056	7159	5823	4975
3.ReIvw,Cond: last time sai			4903	4409	5319	4952	4930
4.ReIvw,Cond: skip question		3120					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		16		2	1		
16.ReIvw,NoCond BUT Pre=Con				4			

Value	S8HIBPQ	S9HIBPQ	S10HIBPQ	S11HIBPQ	S12HIBPQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	5499	4750	3938	5251	4590
3.ReIvw,Cond: last time sai	5363	5283	4983	6328	5875
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				8	15
16.ReIvw,NoCond BUT Pre=Con				1	

Value	R1DIAB	R2DIAB	R3DIAB	R4DIAB	R5DIAB	R6DIAB	R7DIAB
.D=DK/NA		10	8	12	4	6	17
.M=Oth missing			2				
.P=Preload yes,but no prv w		1					
.R=RF			2		4	2	4
.Y=Via preload+yes prev wv		1203					
0.No	11262	17057	15334	18224	16453	14895	16398
1.Yes	1390	1371	2480	3043	3007	3191	3609
3.Disp prev record and has					3	3	5
4.Disp prev record and no c					108	68	96
5.Disp prev record (DK if c			165	105			

Value	R8DIAB	R9DIAB	R10DIAB	R11DIAB	R12DIAB
.D=DK/NA	17	15	18	17	14
.M=Oth missing	1			1	
.R=RF	2	3	3		1
0.No	14626	13323	16865	15408	13859
1.Yes	3716	3771	5037	4932	4737
3.Disp prev record and has	3	3	4	4	1
4.Disp prev record and no c	104	102	107	192	135

Value	S1DIAB	S2DIAB	S3DIAB	S4DIAB	S5DIAB	S6DIAB	S7DIAB
.D=DK/NA		3	4	3	2	3	6
.M=Oth missing			2				
.R=RF					2	1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		857					
0.No	8877	11468	10251	12037	10791	9615	10660
1.Yes	1023	760	1546	1869	1869	1976	2240
3.Disp prev record and has					2	3	4
4.Disp prev record and no c					64	41	61
5.Disp prev record (DK if c			112	69			

Value	S8DIAB	S9DIAB	S10DIAB	S11DIAB	S12DIAB
.D=DK/NA	6	7	4	8	1
.M=Oth missing				1	
.R=RF	1	1	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9416	8334	10438	9493	8259
1.Yes	2245	2246	3011	2877	2697
3.Disp prev record and has	1	2	3	3	1
4.Disp prev record and no c	66	56	56	106	68

Value	R1DIABQ	R2DIABQ	R3DIABQ	R4DIABQ	R5DIABQ	R6DIABQ	R7DIABQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		10103	15518	14169	16706	14399	13075
3.ReIvw,Cond: last time sai			2200	2116	2603	2461	2618
4.ReIvw,Cond: skip question		1203					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	1
15.ReIvw,Cond BUT Pre=NoCon		11		2			
16.ReIvw,NoCond BUT Pre=Con			1	3			

Value	R8DIABQ	R9DIABQ	R10DIABQ	R11DIABQ	R12DIABQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	14238	13126	11632	14965	13733
3.ReIvw,Cond: last time sai	2997	3132	3075	4219	4063
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				98	112
16.ReIvw,NoCond BUT Pre=Con					1

Value	S1DIABQ	S2DIABQ	S3DIABQ	S4DIABQ	S5DIABQ	S6DIABQ	S7DIABQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		7774	10308	9161	10892	9277	8306
3.ReIvw,Cond: last time sai			1366	1307	1587	1498	1599
4.ReIvw,Cond: skip question		857					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	1
15.ReIvw,Cond BUT Pre=NoCon		6		2			
16.ReIvw,NoCond BUT Pre=Con				1			

Value	S8DIABQ	S9DIABQ	S10DIABQ	S11DIABQ	S12DIABQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	9078	8202	7130	9078	8122
3.ReIvw,Cond: last time sai	1784	1831	1791	2447	2285
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				63	72
16.ReIvw,NoCond BUT Pre=Con					1

Value	R1CANCER	R2CANCER	R3CANCER	R4CANCER	R5CANCER	R6CANCER	R7CANCER
.D=DK/NA		9	7	10	10	5	13
.M=Oth missing			2				
.R=RF		3	3	1	5	2	3
.T=Other			1				
.Y=Via preload+yes prev wv		580					
0.No	11949	17777	16010	18978	17151	15665	17420
1.Yes	703	1273	1880	2333	2344	2444	2630
3.Disp prev record and has					1	3	1
4.Disp prev record and no c					68	46	62
5.Disp prev record (DK if c			88	62			

Value	R8CANCER	R9CANCER	R10CANCER	R11CANCER	R12CANCER
.D=DK/NA	14	9	18	12	16
.M=Oth missing	1			1	
.R=RF	2	3	2	3	1
0.No	15746	14477	18926	17440	15771
1.Yes	2652	2670	3041	3030	2901
3.Disp prev record and has	2			3	1
4.Disp prev record and no c	52	58	47	65	57

Value	S1CANCER	S2CANCER	S3CANCER	S4CANCER	S5CANCER	S6CANCER	S7CANCER
.D=DK/NA		4	6	3	3	4	7
.M=Oth missing			2				
.R=RF		3	1	1	2	2	1
.T=Other			1				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		422					
0.No	9365	11948	10694	12498	11248	10122	11334
1.Yes	535	711	1154	1452	1435	1483	1595
3.Disp prev record and has					1	2	1
4.Disp prev record and no c					41	26	34
5.Disp prev record (DK if c			57	24			

Value	S8CANCER	S9CANCER	S10CANCER	S11CANCER	S12CANCER
.D=DK/NA	6	5	9	8	7
.M=Oth missing				1	
.R=RF	1	2	2		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10116	9021	11651	10683	9356
1.Yes	1592	1582	1831	1760	1630
3.Disp prev record and has				2	
4.Disp prev record and no c	20	36	20	34	33

Value	R1CANCRO	R2CANCRO	R3CANCRO	R4CANCRO	R5CANCRO	R6CANCRO	R7CANCRO
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		10728	16165	14760	17370	14962	13688
3.ReIvw,Cond: last time sai			1543	1525	1939	1898	2004
4.ReIvw,Cond: skip question		580					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	1
15.ReIvw,Cond BUT Pre=NoCon		9	10	3			
16.ReIvw,NoCond BUT Pre=Con			1	2			1

Value	R8CANCRO	R9CANCRO	R10CANCRO	R11CANCRO	R12CANCRO
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	15072	14055	12607	16758	15447
3.ReIvw,Cond: last time sai	2163	2201	2100	2514	2451
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				8	9
16.ReIvw,NoCond BUT Pre=Con		2		2	2

Value	S1CANCRO	S2CANCRO	S3CANCRO	S4CANCRO	S5CANCRO	S6CANCRO	S7CANCRO
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		8208	10747	9560	11311	9641	8709
3.ReIvw,Cond: last time sai			921	909	1168	1134	1195
4.ReIvw,Cond: skip question		422					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	1
15.ReIvw,Cond BUT Pre=NoCon		7	5	1			
16.ReIvw,NoCond BUT Pre=Con			1	1			1

Value	S8CANCRO	S9CANCRO	S10CANCRO	S11CANCRO	S12CANCRO
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	9603	8733	7682	10138	9136
3.ReIvw,Cond: last time sai	1259	1298	1239	1444	1337
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				5	7
16.ReIvw,NoCond BUT Pre=Con		2		1	

Value	R1LUNG	R2LUNG	R3LUNG	R4LUNG	R5LUNG	R6LUNG	R7LUNG
.D=DK/NA		8	2	7	9	8	10
.M=Oth missing			2				
.R=RF		1	2		4	2	3
.T=Other			1				
.Y=Via preload+yes prev wv		879					
0.No	11634	17581	15971	19239	17575	16304	18077
1.Yes	1018	1173	1751	1932	1792	1761	1900
3.Disp prev record and has					10	1	4
4.Disp prev record and no c					189	89	135
5.Disp prev record (DK if c			262	206			

Value	R8LUNG	R9LUNG	R10LUNG	R11LUNG	R12LUNG
.D=DK/NA	18	8	15	8	16
.M=Oth missing	1			1	
.R=RF	2	3	2	1	2
0.No	16454	15223	19723	18283	16639
1.Yes	1869	1872	2197	2120	1982
3.Disp prev record and has	2	3	6	4	3
4.Disp prev record and no c	123	108	91	137	105

Value	S1LUNG	S2LUNG	S3LUNG	S4LUNG	S5LUNG	S6LUNG	S7LUNG
.D=DK/NA		5	1	2	5	4	3
.M=Oth missing			2				
.R=RF		1			2	2	
.T=Other			1				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		614					
0.No	9157	11811	10684	12728	11575	10603	11824
1.Yes	743	657	1072	1121	1043	982	1057
3.Disp prev record and has					4	1	3
4.Disp prev record and no c					101	47	85
5.Disp prev record (DK if c			155	127			

Value	S8LUNG	S9LUNG	S10LUNG	S11LUNG	S12LUNG
.D=DK/NA	7	5	4	3	4
.M=Oth missing				1	
.R=RF	1	2	2		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10632	9582	12308	11320	9999
1.Yes	1027	1002	1155	1103	971
3.Disp prev record and has	2	1	1	2	2
4.Disp prev record and no c	66	54	43	59	50

Value	R1LUNGQ	R2LUNGQ	R3LUNGQ	R4LUNGQ	R5LUNGQ	R6LUNGQ	R7LUNGQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		10433	16000	14793	17680	15465	14257
3.ReIvw,Cond: last time sai			1717	1479	1629	1393	1436
4.ReIvw,Cond: skip question		879					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		5	2	3		2	
16.ReIvw,NoCond BUT Pre=Con				15			

Value	R8LUNGQ	R9LUNGQ	R10LUNGQ	R11LUNGQ	R12LUNGQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	15675	14696	13232	17428	16183
3.ReIvw,Cond: last time sai	1560	1562	1475	1828	1694
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				25	15
16.ReIvw,NoCond BUT Pre=Con				1	17

Value	S1LUNGQ	S2LUNGQ	S3LUNGQ	S4LUNGQ	S5LUNGQ	S6LUNGQ	S7LUNGQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		8021	10631	9592	11559	10003	9115
3.ReIvw,Cond: last time sai			1043	868	920	770	790
4.ReIvw,Cond: skip question		614					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		2		1		2	
16.ReIvw,NoCond BUT Pre=Con				10			

Value	S8LUNGQ	S9LUNGQ	S10LUNGQ	S11LUNGQ	S12LUNGQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	10028	9212	8145	10639	9642
3.ReIvw,Cond: last time sai	834	821	776	937	819
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				11	7
16.ReIvw,NoCond BUT Pre=Con				1	12



Value	R1HEART	R2HEART	R3HEART	R4HEART	R5HEART	R6HEART	R7HEART
.D=DK/NA		10	1	13	4	10	19
.M=Oth missing			2				
.R=RF			2		4	2	2
0.No	10986	16422	13601	16368	15031	13481	15174
1.Yes	1666	3210	4119	4307	4374	4551	4789
3.Disp prev record and has					6	3	3
4.Disp prev record and no c					160	118	142
5.Disp prev record (DK if c			266	179			
6.Prel prob:prev had/no ne				517			

Value	R8HEART	R9HEART	R10HEART	R11HEART	R12HEART
.D=DK/NA	17	14	19	16	22
.M=Oth missing	1			1	
.R=RF	2	4	2	2	2
0.No	13572	12501	16786	15404	13881
1.Yes	4700	4511	5081	4960	4693
3.Disp prev record and has	2	4	2		4
4.Disp prev record and no c	175	183	144	171	145

Value	S1HEART	S2HEART	S3HEART	S4HEART	S5HEART	S6HEART	S7HEART
.D=DK/NA		4		5	1	4	7
.M=Oth missing			2				
.R=RF					2	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	8614	11311	9255	10970	9990	8887	10053
1.Yes	1286	1773	2504	2655	2638	2686	2827
3.Disp prev record and has					3	2	1
4.Disp prev record and no c					96	58	84
5.Disp prev record (DK if c			154	98			
6.Prel prob:prev had/no ne				250			

Value	S8HEART	S9HEART	S10HEART	S11HEART	S12HEART
.D=DK/NA	3	8	9	7	9
.M=Oth missing				1	
.R=RF	1	2	1	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	8887	7927	10495	9572	8369
1.Yes	2748	2617	2930	2828	2575
3.Disp prev record and has	1	3	1		2
4.Disp prev record and no c	95	89	77	79	71

Value	R1HEARTQ	R2HEARTQ	R3HEARTQ	R4HEARTQ	R5HEARTQ	R6HEARTQ	R7HEARTQ
1.NewIvw: have had [ever]	12652	8188	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		9813	14070	12790	15647	13195	12058
3.ReIvw,Cond: last time sai			3645	2570	3660	3460	3634
5.ReIvw/NewR: have ever had						1072	959
6.ReIvw,Cond: told had sinc		1442					
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		15		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		6	3	906	2		
16.ReIvw,NoCond BUT Pre=Con			1	24		205	1
18.NewIvw BUT Pre=ReIvw,Con		15					
19.ReIvw,NoCond BUT Pre=Con		56					

Value	R8HEARTQ	R9HEARTQ	R10HEARTQ	R11HEARTQ	R12HEARTQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	13336	12412	11180	15030	13875
3.ReIvw,Cond: last time sai	3899	3844	3527	4202	3994
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon		1		50	40
16.ReIvw,NoCond BUT Pre=Con		1			

Value	S1HEARTQ	S2HEARTQ	S3HEARTQ	S4HEARTQ	S5HEARTQ	S6HEARTQ	S7HEARTQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4318	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		7524	9472	8416	10247	8609	7770
3.ReIvw,Cond: last time sai			2201	1611	2230	2077	2135
5.ReIvw/NewR: have ever had						648	577
6.ReIvw,Cond: told had sinc		1071					
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		14		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		3	1	441	2		
16.ReIvw,NoCond BUT Pre=Con				3		89	
18.NewIvw BUT Pre=ReIvw,Con		15					
19.ReIvw,NoCond BUT Pre=Con		39					

Value	S8HEARTQ	S9HEARTQ	S10HEARTQ	S11HEARTQ	S12HEARTQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	8589	7825	6894	9180	8276
3.ReIvw,Cond: last time sai	2273	2208	2027	2380	2185
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				28	19

Value	R1STROK	R2STROK	R3STROK	R4STROK	R5STROK	R6STROK	R7STROK
.D=DK/NA		4	4	8	2	8	6
.M=Oth missing			2				
.R=RF			2		5	2	1
.Y=Via preload+yes prev wv		323					
0.No	12257	18384	16679	19792	18088	16718	18627
1.Yes	395	792	1106	1363	1319	1273	1327
2.TIA/possible stroke		139	130	167	123	146	141
3.Disp prev record and has					4	2	2
4.Disp prev record and no c					38	16	25
5.Disp prev record (DK if c			68	54			

Value	R8STROK	R9STROK	R10STROK	R11STROK	R12STROK
.D=DK/NA	12	10	11	9	17
.M=Oth missing	1			1	
.R=RF	2	4	3	1	3
0.No	16988	15765	20338	18850	17154
1.Yes	1298	1284	1523	1546	1437
2.TIA/possible stroke	126	124	127	103	93
3.Disp prev record and has	3	1	2	2	4
4.Disp prev record and no c	39	29	30	42	39

Value	S1STROK	S2STROK	S3STROK	S4STROK	S5STROK	S6STROK	S7STROK
.D=DK/NA		2	2	3	1	2	2
.M=Oth missing			2				
.R=RF					2	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		240					
0.No	9604	12378	11183	13126	11934	10898	12198
1.Yes	296	393	631	738	714	650	694
2.TIA/possible stroke		75	62	80	57	73	69
3.Disp prev record and has					2	2	
4.Disp prev record and no c					20	12	9
5.Disp prev record (DK if c			35	31			

Value	S8STROK	S9STROK	S10STROK	S11STROK	S12STROK
.D=DK/NA	5	4	5	4	5
.M=Oth missing				1	
.R=RF	1	2	2		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10955	9919	12672	11657	10266
1.Yes	694	658	763	747	693
2.TIA/possible stroke	63	55	61	55	40
3.Disp prev record and has			1	1	2
4.Disp prev record and no c	17	8	9	23	19

Value	R1STROKQ	R2STROKQ	R3STROKQ	R4STROKQ	R5STROKQ	R6STROKQ	R7STROKQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		10984	16733	15318	18113	15866	14684
3.ReIvw,Cond: last time sai			869	921	1064	908	910
4.ReIvw,Cond: skip question		323					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	1
15.ReIvw,Cond BUT Pre=NoCon		10	116	51	132	86	99
16.ReIvw,NoCond BUT Pre=Con			1				

Value	R8STROKQ	R9STROKQ	R10STROKQ	R11STROKQ	R12STROKQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	16177	15200	13728	18017	16681
3.ReIvw,Cond: last time sai	962	971	892	1174	1151
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon	96	87	87	90	77
16.ReIvw,NoCond BUT Pre=Con				1	

Value	S1STROKQ	S2STROKQ	S3STROKQ	S4STROKQ	S5STROKQ	S6STROKQ	S7STROKQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		8397	11123	9949	11839	10257	9371
3.ReIvw,Cond: last time sai			495	503	571	473	479
4.ReIvw,Cond: skip question		240					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	1
15.ReIvw,Cond BUT Pre=NoCon			56	19	69	45	55

Value	S8STROKQ	S9STROKQ	S10STROKQ	S11STROKQ	S12STROKQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	10295	9488	8430	10968	9888
3.ReIvw,Cond: last time sai	516	498	450	575	549
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon	51	47	41	44	43
16.ReIvw,NoCond BUT Pre=Con				1	

Value	R1PSYCH	R2PSYCH	R3PSYCH	R4PSYCH	R5PSYCH	R6PSYCH	R7PSYCH
.D=DK/NA		2	7	12	6	6	20
.M=Oth missing			2				
.R=RF		5	3	1	3	4	11
.T=Other			1				
.Y=Via preload+yes prev wv		1193					
0.No	11283	17090	15089	18086	16403	15115	16624
1.Yes	1369	1352	2467	2998	2873	2862	3215
3.Disp prev record and has					7	7	11
4.Disp prev record and no c					287	171	248
5.Disp prev record (DK if c			422	287			

Value	R8PSYCH	R9PSYCH	R10PSYCH	R11PSYCH	R12PSYCH
.D=DK/NA	18	15	31	27	22
.M=Oth missing	1			1	
.R=RF	3	3	5	3	8
0.No	15023	13907	17826	16442	14891
1.Yes	3227	3100	4002	3881	3658
3.Disp prev record and has	3	5	13	10	3
4.Disp prev record and no c	194	187	157	190	165

Value	S1PSYCH	S2PSYCH	S3PSYCH	S4PSYCH	S5PSYCH	S6PSYCH	S7PSYCH
.D=DK/NA		2	1	7	2	1	11
.M=Oth missing			2				
.R=RF		3		1	1	3	8
.T=Other			1				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		763					
0.No	8982	11540	10201	12118	10952	9976	11077
1.Yes	918	780	1453	1684	1613	1556	1742
3.Disp prev record and has					3	5	6
4.Disp prev record and no c					159	98	128
5.Disp prev record (DK if c			257	168			

Value	S8PSYCH	S9PSYCH	S10PSYCH	S11PSYCH	S12PSYCH
.D=DK/NA	8	7	10	13	10
.M=Oth missing				1	
.R=RF			1		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9876	8912	11342	10387	9113
1.Yes	1738	1623	2085	1998	1823
3.Disp prev record and has	1	3	4	4	3
4.Disp prev record and no c	110	99	71	85	76

Value	R1PSYCHQ	R2PSYCHQ	R3PSYCHQ	R4PSYCHQ	R5PSYCHQ	R6PSYCHQ	R7PSYCHQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		10109	15419	14078	16663	14467	13259
3.ReIvw,Cond: last time sai			2285	2201	2642	2392	2434
4.ReIvw,Cond: skip question		1193					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		15	1	3			
16.ReIvw,NoCond BUT Pre=Con			14	8	4	1	

Value	R8PSYCHQ	R9PSYCHQ	R10PSYCHQ	R11PSYCHQ	R12PSYCHQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	14510	13510	12108	15799	14560
3.ReIvw,Cond: last time sai	2725	2748	2599	3468	3326
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				12	23
16.ReIvw,NoCond BUT Pre=Con				3	

Value	S1PSYCHQ	S2PSYCHQ	S3PSYCHQ	S4PSYCHQ	S5PSYCHQ	S6PSYCHQ	S7PSYCHQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		7868	10302	9223	11012	9464	8597
3.ReIvw,Cond: last time sai			1363	1241	1467	1311	1308
4.ReIvw,Cond: skip question		763					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1		1	
13.NewIvw BUT Pre=ReIvw,Con							1
15.ReIvw,Cond BUT Pre=NoCon		6		2			
16.ReIvw,NoCond BUT Pre=Con			9	5			

Value	S8PSYCHQ	S9PSYCHQ	S10PSYCHQ	S11PSYCHQ	S12PSYCHQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	9427	8599	7583	9827	8824
3.ReIvw,Cond: last time sai	1435	1434	1338	1754	1649
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				5	7
16.ReIvw,NoCond BUT Pre=Con				2	

Value	R1ARTHR	R2ARTHR	R3ARTHR	R4ARTHR	R5ARTHR	R6ARTHR	R7ARTHR
.D=DK/NA		11	4	21	9	24	23
.M=Oth missing			2				
.R=RF			2	1	6	2	2
.T=Other			1				
.Y=Via preload+yes prev wv		4241					
0.No	7880	12348	8497	9772	8117	7045	8349
1.Yes	4772	3042	9101	11257	11116	10840	11472
3.Disp prev record and has					14	9	9
4.Disp prev record and no c					317	245	274
5.Disp prev record (DK if c			384	333			

Value	R8ARTHR	R9ARTHR	R10ARTHR	R11ARTHR	R12ARTHR
.D=DK/NA	16	23	39	25	31
.M=Oth missing	1			1	
.R=RF	2	4	3	1	4
0.No	7169	6301	9775	8583	7478
1.Yes	11037	10587	11997	11669	11017
3.Disp prev record and has	6	5	8	5	1
4.Disp prev record and no c	238	297	212	270	216

Value	S1ARTHR	S2ARTHR	S3ARTHR	S4ARTHR	S5ARTHR	S6ARTHR	S7ARTHR
.D=DK/NA		5	4	9	6	11	12
.M=Oth missing			2				
.R=RF				1	2	2	1
.T=Other			1				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.Y=Via preload+yes prev wv		3076					
0.No	6323	8325	5987	6919	5764	4883	5874
1.Yes	3577	1682	5643	6834	6746	6580	6916
3.Disp prev record and has					9	6	7
4.Disp prev record and no c					203	157	162
5.Disp prev record (DK if c			278	215			

Value	S8ARTHR	S9ARTHR	S10ARTHR	S11ARTHR	S12ARTHR
.D=DK/NA	4	12	15	10	10
.M=Oth missing				1	
.R=RF	1	2	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5004	4280	6473	5680	4873
1.Yes	6590	6167	6896	6637	6029
3.Disp prev record and has	3	2	3	3	
4.Disp prev record and no c	133	183	125	157	114

Value	R1ARTHRQ	R2ARTHRQ	R3ARTHRQ	R4ARTHRQ	R5ARTHRQ	R6ARTHRQ	R7ARTHRQ
1.NewIvw: have had [ever]	12652	8189	270	5090	265	226	3471
2.ReIvw,NoCond: have had si		7044	11104	8148	9210	7435	6357
3.ReIvw,Cond: last time sai			6612	8136	10099	9421	9336
4.ReIvw,Cond: skip question		4241					
5.ReIvw/NewR: have ever had						1072	959
10.Ovrlap-93Ivw: have had [		107					
11.ReIvw BUT Pre=NewIvw: ha			2	3	5	6	5
12.NewIvw BUT Pre=ReIvw,NoC		29		1			
13.NewIvw BUT Pre=ReIvw,Con						1	1
15.ReIvw,Cond BUT Pre=NoCon		32	3	4		4	
16.ReIvw,NoCond BUT Pre=Con				2			

Value	R8ARTHRQ	R9ARTHRQ	R10ARTHRQ	R11ARTHRQ	R12ARTHRQ
1.NewIvw: have had [ever]	207	143	6439	331	178
2.ReIvw,NoCond: have had si	7346	6584	5741	8724	7805
3.ReIvw,Cond: last time sai	9889	9674	8966	10540	10093
5.ReIvw/NewR: have ever had	1020	816	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	6		11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				16	10
16.ReIvw,NoCond BUT Pre=Con				2	1

Value	S1ARTHRQ	S2ARTHRQ	S3ARTHRQ	S4ARTHRQ	S5ARTHRQ	S6ARTHRQ	S7ARTHRQ
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.NewIvw: have had [ever]	9900	4319	240	3503	247	209	2484
2.ReIvw,NoCond: have had si		5543	7394	5589	6435	5117	4338
3.ReIvw,Cond: last time sai			4280	4877	6044	5656	5567
4.ReIvw,Cond: skip question		3076					
5.ReIvw/NewR: have ever had						648	577
10.Ovrlap-93Ivw: have had [		104					
11.ReIvw BUT Pre=NewIvw: ha			1	3	4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		28		1			
13.NewIvw BUT Pre=ReIvw,Con						1	1
15.ReIvw,Cond BUT Pre=NoCon		18		3		2	
16.ReIvw,NoCond BUT Pre=Con				2			

Value	S8ARTHRQ	S9ARTHRQ	S10ARTHRQ	S11ARTHRQ	S12ARTHRQ
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.NewIvw: have had [ever]	198	139	4096	313	167
2.ReIvw,NoCond: have had si	5038	4432	3798	5644	4990
3.ReIvw,Cond: last time sai	5824	5601	5123	5931	5484
5.ReIvw/NewR: have ever had	668	474	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	6		11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	1				
15.ReIvw,Cond BUT Pre=NoCon				11	5
16.ReIvw,NoCond BUT Pre=Con				2	1



## Format Reference Tables – complete variable value labels

Variables: ALZHE, ARTHR, CANCR, DEMEN, DIAB, HEART, HIBP, LUNG, MEMRY, PSYCH, STROK	Variables: ALZHEQ, ARTHRQ, CANCRQ, DEMENQ, DIABQ, HEARTQ, HIBPQ, LUNGQ, MEMRYQ, PSYCHQ, STROKQ
.D=DK/NA	.T=Other
.I=HRS impute=has cond	.U=Unmarried
.J=HRS impute=no cond	.V=Spouse NR
.M=Oth missing	1.NewIvw: have had [ever]
.P=Preload yes,but no prv wv	2.ReIvw,NoCond: have had since last Ivw
.R=RF	3.ReIvw,Cond: last time said had
.S=Skip	4.ReIvw,Cond: skip question
.T=Other	5.ReIvw/NewR: have ever had
.U=Unmarried	6.ReIvw,Cond: told had since last Ivw
.V=Spouse NR	10.Ovrlap-93Ivw: have had [ever]
.Y=Via preload=yes prev wv	11.ReIvw BUT Pre=NewIvw: have had [ever]
0.No	12.NewIvw BUT Pre=ReIvw,NoCond: have had since las
1.Yes	13.NewIvw BUT Pre=ReIvw,Cond: last time said had
2.TIA/possible stroke	14.NewIvw BUT Pre=ReIvw,Cond: skip question
3.Disp prev record and has cond	15.ReIvw,Cond BUT Pre=NoCond: have had since last
4.Disp prev record and no cond	16.ReIvw,NoCond BUT Pre=Cond: last time said had
5.Disp prev record (DK if cond)	17.ReIvw,NoCond BUT Pre=Cond: Skip question
6.Preld prob:prev had/no new	18.NewIvw BUT Pre=ReIvw,Cond: told had since last
	19.ReIvw,NoCond BUT Pre=Cond: told had since last

### How Constructed

RwHIBP, RwDIAB, RwCANCER, RwLUNG, RwHEART, RwSTROK, RwPSYCH, and RwARTHR indicate the raw response to the question regarding whether or not a doctor has told the Respondent s/he had these conditions. The exact question wording depends on whether this is a first interview, whether the person being interviewed is the same as in the prior interview, and whether the condition was reported at a prior interview. RwHIBPQ, RwDIABQ, RwCANCERQ, RwLUNGQ, RwHEARTQ, RwSTROKQ, RwPSYCHQ, and RwARTHRQ indicate the question wording used, based on preload variables, and whether the preloaded information is correct.

The conditions are 1) high blood pressure or hypertension; 2) diabetes or high blood sugar; 3) cancer or a malignant tumor of any kind except skin cancer; 4) chronic lung disease except asthma such as chronic bronchitis or emphysema; 5) heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems; 6) stroke or transient ischemic attack (TIA); 7) emotional, nervous, or psychiatric problems; and 8) arthritis or rheumatism.

The question wording is one of the following (main codes in "Q" variables are given in parentheses):

If new interview, or from Wave 6 forward, new person answering questions (1.NewIvw or 5.ReIvw/NewR): "Has a doctor ever told you that you have ..."

If reinterview and no prior report of condition (2.ReIvw,NoCond): "Since we last talked to you, that is since [last interview date], has a doctor told you that you have ..."

Beginning in Wave 3, if reinterview and prior report of condition (3.ReIvw,Cond): "Our records from your last interview show that you have had ..., " and the Respondent has the opportunity to dispute the statement.

In Wave 2H, if it is a reinterview and the condition is reported in Wave 1 (4.ReIvw,Cond), the question is skipped, except for the heart condition question which asks about the time since last interview (6.ReIvw,Cond: told had since last Ivw). Wave 2A is the first wave for AHEAD Respondents so they are all new interviews.

In Wave 2A, the HRS-AHEAD overlap cases are treated as though this is their first interview. These cases have a Wave 1 interview as part of the HRS cohort, but because of their ages, are given to AHEAD in 1993. So in both 1992 and 1993, they are asked: "Has a doctor ever told you that you have...." These cases are assigned a code of "10" in Wave 2A.

They may or may not have reported having the condition in Wave 1.

The "Q" variables have additional codes that indicate situations where the preload variables determine the question wording, but do not agree with the actual situation in prior waves. For example, "11" means that the Respondent has a prior interview, but the preload indicates this is a new interview, so the question asks if the Respondent has ever been told about a condition, and "15" means that the Respondent previously reported having a condition but the preload indicates a prior interview and no condition, so the question asks if the Respondent has been told about a condition since last interview. In the latter case, an answer of "No" is consistent with having been told of the condition at or before the last interview, but not since. Codes "18" and "19" apply only to the question about a heart condition in Wave 2H.

RwHIBP, RwDIAB, RwcANCER, RwlUNG, RwhEART, RwSTROK, RwPSYCH, and RwarTHR are recoded to reflect the answer given. The meaning of the answer depends on the question asked, so the analyst may want to consider these variables in conjunction with the corresponding "Q" variables. Generally, a "1" means "yes" and "0" means "no." Note that for a re-interview, when the condition was previously reported, a "1" in this variable simply means the Respondent did not dispute the statement about the records from last interview. In Waves 3 and 4, this can be disputed, but no follow-up as to whether the Respondent currently has the condition is done; these are assigned a code of "5." From Wave 5 forward, the interviewer is asked to probe for current condition if the statement is disputed; these are assigned a code of "3" or "4," depending on whether the Respondent says s/he has the condition now or not, respectively.

In Wave 2H, if the question is skipped because the preload indicates the condition was reported in Wave 1, the condition variable is set to .Y if the condition is indeed reported in Wave 1, and .P if the condition is not reported in Wave 1. R4HEART is set to "6" if the raw variable indicates that the incorrect question is asked due to a preload problem, and the Respondent reports no condition since last interview. These cases had previously reported a heart condition.

SwHIBP, SwDIAB, SwCANCER, SwLUNG, SwHEART, SwSTROK, SwPSYCH, SwARTHR, SwHIBPQ, SwDIABQ, SwCANCERQ, SwLUNGQ, SwHEARTQ, SwSTROKQ, SwPSYCHQ, and SwARTHRQ give this information for the Respondent's spouse or partner.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3HIBP is taken from the Wave 3 spouse's R3HIBP variable.

Please see RwHIBPE, RwDIABE, RwcANCER, RwlUNGE, RwhEARTE, RwSTROKE, RwPSYCHE, and RwarTHRE for variables that indicate whether the Respondent has ever reported having these conditions. The "E" variables consider answers from all previous waves, and not just the current one.

Please see the 'Change in Health' variables as well. Included there are variables that measure whether the individual conditions are new in a particular wave, i.e., reported as new since the last interview date. There is a summary measure for these new conditions as well.

## Cross Wave Differences in Original HRS Data

A series of questions asks the Respondent if a doctor has ever diagnosed her/him with certain medical conditions. At a Respondent's first interview, the question asks:

"Has a doctor ever told you that you have ..."

From Wave 6 forward, if the person answering the questions is new, the question is asked as though it were the first interview, regardless of what had been reported at prior interviews. Thus if the prior interview was given by the Respondent and the current is by proxy, or vice versa, or if both interviews are by proxy but conducted with different people, then this is

treated like a first interview and the ever question wording is used.

At subsequent interviews, the question wording depends on whether the appropriate preloaded variable indicates that the Respondent has said yes to the condition at a prior interview. If not, the question wording is:

"Since we last talked to you, that is since [last interview date], has a doctor told you that you have ..."

What happens if the Respondent had reported a condition at a prior interview varies across waves. In Wave 2H, if the preloaded variable indicates that the Respondent reported the condition in Wave 1, no question is asked for most conditions. For heart problems, the above question is asked regardless of the preloaded variable value; if the preloaded variable indicates a Wave 1 heart problem, it is prefaced by a statement that a heart condition has already been reported.

Beginning in Wave 3, if the preloaded variable indicates that the Respondent reported a condition at a prior interview, a statement is read:

"Our records from your last interview show that you have had ..."

No explicit question is asked. If the Respondent disputes the statement voluntarily, this is recorded, but no follow-up on the current diagnosis of the condition is asked in Waves 3 and 4. Starting in Wave 5, if the Respondent disputes the statement, the interviewer is instructed to probe as to whether or not the Respondent has since been diagnosed with the condition. The dispute is recorded as "disputes previous wave record but now has the condition" or "disputes and does not have the condition." Most disputes are of the latter type. If the Respondent does not dispute the statement, the variable that indicates the diagnosis of the condition is set to "yes."

In Wave 4, an alternate variable is provided for the heart condition question (F1156A). Apparently a skip pattern problem in this wave causes some cases who had previously reported a heart condition to be asked if they'd been told they had one since last interview, and some respond "No." These cases are identified in F1156A.

In Wave 2A and from Wave 3 forward, a code for "possible stroke or transient ischemic attack (TIA)" is added, if the Respondent volunteered this information in answer to the question about strokes. This code is not available in Waves 1 and 2H. TIA is treated the same as a "yes" answer in deriving RwSTROKE (Ever had stroke), but is coded separately in RwSTROK.

The definition of "doctor" in Wave 6 was: Medical doctors include specialists such as: Dermatologists, Psychiatrists, Ophthalmologists, as well as general practitioners, and Osteopaths. Do not include Chiropractors, Dentists, or Nurses/Nurse Practitioners.

In Wave 7 this was expanded as follows: Medical doctors include specialists such as Dermatologists, Psychiatrists, Ophthalmologists, Osteopaths, Cardiologists, as well as family doctors, internists and physicians' assistants.

## HRS Variables Used

HRS 1992:

V325	B6:EVER HI BLD PRESS:IMP
V328	B7:EVER DIAB/HI BLD :IMP
V337	B9: CANCER/MALIGN TU:IMP
V401	B15:CHRONIC LUNG DIS:IMP
V406	B16:EVER HEART PROBL:IMP
V417	B22:EVER HAD STROKE :IMP
V422	B23:EMOT/NERV/PSYCH :IMP
V426	B25:ARTHRITIS/RHEUMA:IMP

## AHEAD 1993:

B215	B3. HIGH BLOOD PRESSURE EVER
B219	B4. DIABETES: NOW
B225	B5. CANCER EVER
B235	B6. LUNG DISEASE: EVER
B242	B7. HEART CONDITION: EVER
B252	B8. STROKE: EVER
B259	B9. PSYCHIATRIC PROBLEMS: EVER
B265	B10. ARTHRITIS: PAST 12 MONTHS

## HRS 1994:

W2RESP	HRS Wave 2 Status Flag
W328	B6a.HIGH BLOOD PRESSURE
W331	B7.DIABETES/HIGH BLOOD S
W339	B9.CANCER/MALIGNANT TUMO
W362	B14.CHRONIC LUNG DISEASE
W367	B15.HEART PROBLEMS EVER
W368	B15.HEART CONDITIONS
W379	B21.STROKE
W384	B23.EMOTIONAL/NERVOUS/PS
W387	B24.ARTHRITIS/RHEUMATISM

## AHEAD 1995:

D109	W1 R HIGH BP V215
D110	W1 DIABETES V219
D111	W1 CANCER V225
D112	W1 LUNG V235
D113	W1 HEART V244/245/252
D114	W1 STROKE V254
D115	W1 PSYCHIATRIC V259
D116	W1 ARTHRITIS V265
D370	W1 INTERV
D781	B3. HIGH BLOOD PRESSURE
D788	B4. DIABETES
D801	B5.CANCER
D818	B6. LUNG
D828	B7. HEART CONDITION
D848	B9. STROKE
D861	B10. PSYCHIATRIC
D866	B11. ARTHRITIS

## HRS 1996:

E109	PREV WAVE R HIGH BP V215
E110	PREV WAVE DIABETES V219
E111	PREV WAVE CANCER V225
E112	PREV WAVE LUNG V235
E113	PREV WAVE HEART V244/245/252
E114	PREV WAVE STROKE V254
E115	PREV WAVE PSYCHIATRIC V259
E116	PREV WAVE ARTHRITIS V265
E370	PREV WAVE INTERV
E781	B3. HIGH BLOOD PRESSURE
E788	B4. DIABETES
E801	B5.CANCER
E818	B6. LUNG
E828	B7. HEART CONDITION
E848	B9. STROKE
E861	B10. PSYCHIATRIC
E866	B11. ARTHRITIS

## HRS 1998:

F1109	B3. HIGH BLOOD PRESSURE
F1116	B4. DIABETES

F1129	B5.CANCER
F1146	B6. LUNG
F1156	B7. HEART CONDITION
F1176	B9. STROKE
F1189	B10. PSYCHIATRIC
F1194	B11. ARTHRITIS
F230	PREV WAVE R HIGH BP
F231	PREV WAVE DIABETES
F232	PREV WAVE CANCER
F233	PREV WAVE LUNG
F234	PREV WAVE HEART
F235	PREV WAVE STROKE
F236	PREV WAVE PSYCHIATRIC
F237	PREV WAVE ARTHRITIS
F682	PREVIOUS WAVE INTERV
HRS 2000:	
G1238	B3.HIGH BLOOD PRESSURE
G1245	B4. DIABETES
G1262	B5.CANCER
G1279	B6. LUNG
G1289	B7. HEART CONDITION
G1309	B9. STROKE
G1322	B10. PSYCHIATRIC
G1327	B11. ARTHRITIS
G230	PR230.PREV WAVE R HIGH BP
G231	PR231.PREV WAVE DIABETES
G232	PR232.PREV WAVE CANCER
G233	PR233.PREV WAVE LUNG
G234	PR234.PREV WAVE HEART
G235	PR235.PREV WAVE STROKE
G236	PR236.PREV WAVE PSYCHIATRIC
G237	PR237.PREV WAVE ARTHRITIS
G753	CS22Y30.PREVIOUS WAVE INTERV
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HA010	CURRENT - WAVE PROXY
HC005	HIGH BLOOD PRESSURE
HC010	DIABETES
HC018	CANCER OF ANY KIND EXCLUDING SKIN
HC030	LUNG DISEASE
HC036	HEART CONDITION
HC053	STROKE
HC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
HC070	ARTHRITIS
HZ076	R EVER INTERVIEWED
HZ095	PREV WAVE IW SELF/PROXY
HZ101	PREV WAVE R HAS HIGH BLOODPRESSURE
HZ102	PREV WAVE R HAS DIABETES
HZ103	PREV WAVE R HAS CANCER
HZ104	PREV WAVE R HAS LUNG PROBLEMS
HZ105	PREV WAVE R HAS HEART PROBLEMS
HZ106	PREV WAVE R HAS HAD STROKE
HZ107	PREV WAVE R HAS PSYCHIATRIC PROBLEMS
HZ108	PREV WAVE R HAS ARTHRITIS
HRS 2004:	
JC005	HIGH BLOOD PRESSURE
JC010	DIABETES
JC018	CANCER OF ANY KIND EXCLUDING SKIN
JC030	LUNG DISEASE

JC036 HEART CONDITION  
JC053 STROKE  
JC065 EMOTIONAL/PSYCHIATRIC PROBLEMS  
JC070 ARTHRITIS  
JC185 DIFFERENT REPORTER FROM PREV IW  
JZ076 R EVER INTERVIEWED  
JZ101 PREV WAVE R HAS HIGH BLOODPRESSURE  
JZ102 PREV WAVE R HAS DIABETES  
JZ103 PREV WAVE R HAS CANCER  
JZ104 PREV WAVE R HAS LUNG PROBLEMS  
JZ105 PREV WAVE R HAS HEART PROBLEMS  
JZ106 PREV WAVE R HAS HAD STROKE  
JZ107 PREV WAVE R HAS PSYCHIATRIC PROBLEMS  
JZ108 PREV WAVE R HAS ARTHRITIS

HRS 2006:  
KC005 HIGH BLOOD PRESSURE  
KC010 DIABETES  
KC018 CANCER OF ANY KIND EXCLUDING SKIN  
KC030 LUNG DISEASE  
KC036 HEART CONDITION  
KC053 STROKE  
KC065 EMOTIONAL/PSYCHIATRIC PROBLEMS  
KC070 ARTHRITIS  
KC185 DIFFERENT REPORTER FROM PREV IW  
KZ076 R EVER INTERVIEWED  
KZ101 PREV WAVE R HAS HIGH BLOODPRESSURE  
KZ102 PREV WAVE R HAS DIABETES  
KZ103 PREV WAVE R HAS CANCER  
KZ104 PREV WAVE R HAS LUNG PROBLEMS  
KZ105 PREV WAVE R HAS HEART PROBLEMS  
KZ106 PREV WAVE R HAS HAD STROKE  
KZ107 PREV WAVE R HAS PSYCHIATRIC PROBLEMS  
KZ108 PREV WAVE R HAS ARTHRITIS

HRS 2008:  
LC005 HIGH BLOOD PRESSURE  
LC010 DIABETES  
LC018 CANCER OF ANY KIND EXCLUDING SKIN  
LC030 LUNG DISEASE  
LC036 HEART CONDITION  
LC053 STROKE  
LC065 EMOTIONAL/PSYCHIATRIC PROBLEMS  
LC070 ARTHRITIS  
LC185 DIFFERENT REPORTER FROM PREV IW  
LZ076 R EVER INTERVIEWED  
LZ101 PREV WAVE R HAS HIGH BLOODPRESSURE  
LZ102 PREV WAVE R HAS DIABETES  
LZ103 PREV WAVE R HAS CANCER  
LZ104 PREV WAVE R HAS LUNG PROBLEMS  
LZ105 PREV WAVE R HAS HEART PROBLEMS  
LZ106 PREV WAVE R HAS HAD STROKE  
LZ107 PREV WAVE R HAS PSYCHIATRIC PROBLEMS  
LZ108 PREV WAVE R HAS ARTHRITIS

HRS 2010:  
MC005 HIGH BLOOD PRESSURE  
MC010 DIABETES  
MC018 CANCER OF ANY KIND EXCLUDING SKIN  
MC030 LUNG DISEASE  
MC036 HEART CONDITION  
MC053 STROKE

MC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
MC070	ARTHRITIS
MC185	DIFFERENT REPORTER FROM PREV IW
MZ076	R EVER INTERVIEWED
MZ101	PREV WAVE R HAS HIGH BLOODPRESSURE
MZ102	PREV WAVE R HAS DIABETES
MZ103	PREV WAVE R HAS CANCER
MZ104	PREV WAVE R HAS LUNG PROBLEMS
MZ105	PREV WAVE R HAS HEART PROBLEMS
MZ106	PREV WAVE R HAS HAD STROKE
MZ107	PREV WAVE R HAS PSYCHIATRIC PROBLEMS
MZ108	PREV WAVE R HAS ARTHRITIS
HRS 2012:	
NC005	HIGH BLOOD PRESSURE
NC010	DIABETES
NC018	CANCER OF ANY KIND EXCLUDING SKIN
NC030	LUNG DISEASE
NC036	HEART CONDITION
NC053	STROKE
NC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
NC070	ARTHRITIS
NC185	DIFFERENT REPORTER FROM PREV IW
NZ076	R EVER INTERVIEWED
NZ101	PREV WAVE R HAS HIGH BLOODPRESSURE
NZ102	PREV WAVE R HAS DIABETES
NZ103	PREV WAVE R HAS CANCER
NZ104	PREV WAVE R HAS LUNG PROBLEMS
NZ105	PREV WAVE R HAS HEART PROBLEMS
NZ106	PREV WAVE R HAS HAD STROKE
NZ107	PREV WAVE R HAS PSYCHIATRIC PROBLEMS
NZ108	PREV WAVE R HAS ARTHRITIS
HRS 2014:	
OC005	HIGH BLOOD PRESSURE
OC010	DIABETES
OC018	CANCER OF ANY KIND EXCLUDING SKIN
OC030	LUNG DISEASE
OC036	HEART CONDITION
OC053	STROKE
OC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
OC070	ARTHRITIS
OC185	DIFFERENT REPORTER FROM PREV IW
OZ076	R EVER INTERVIEWED
OZ101	PREV WAVE R HAS HIGH BLOODPRESSURE
OZ102	PREV WAVE R HAS DIABETES
OZ103	PREV WAVE R HAS CANCER
OZ104	PREV WAVE R HAS LUNG PROBLEMS
OZ105	PREV WAVE R HAS HEART PROBLEMS
OZ106	PREV WAVE R HAS HAD STROKE
OZ107	PREV WAVE R HAS PSYCHIATRIC PROBLEMS
OZ108	PREV WAVE R HAS ARTHRITIS

### Doctor diagnosed health problems: Ever Have Condition

Wave	Variable	Label	Type
1	R1HIBPE	R1HIBPE:W1 R ever had high blood pressure	Categ
2	R2HIBPE	R2HIBPE:W2 R ever had high blood pressure	Categ
3	R3HIBPE	R3HIBPE:W3 R ever had high blood pressure	Categ
4	R4HIBPE	R4HIBPE:W4 R ever had high blood pressure	Categ
5	R5HIBPE	R5HIBPE:W5 R ever had high blood pressure	Categ
6	R6HIBPE	R6HIBPE:W6 R ever had high blood pressure	Categ
7	R7HIBPE	R7HIBPE:W7 R ever had high blood pressure	Categ
8	R8HIBPE	R8HIBPE:W8 R ever had high blood pressure	Categ
9	R9HIBPE	R9HIBPE:W9 R ever had high blood pressure	Categ
10	R10HIBPE	R10HIBPE:W10 R ever had high blood pressure	Categ
11	R11HIBPE	R11HIBPE:W11 R ever had high blood pressure	Categ
12	R12HIBPE	R12HIBPE:W12 R ever had high blood pressure	Categ
1	S1HIBPE	S1HIBPE:W1 S ever had high blood pressure	Categ
2	S2HIBPE	S2HIBPE:W2 S ever had high blood pressure	Categ
3	S3HIBPE	S3HIBPE:W3 S ever had high blood pressure	Categ
4	S4HIBPE	S4HIBPE:W4 S ever had high blood pressure	Categ
5	S5HIBPE	S5HIBPE:W5 S ever had high blood pressure	Categ
6	S6HIBPE	S6HIBPE:W6 S ever had high blood pressure	Categ
7	S7HIBPE	S7HIBPE:W7 S ever had high blood pressure	Categ
8	S8HIBPE	S8HIBPE:W8 S ever had high blood pressure	Categ
9	S9HIBPE	S9HIBPE:W9 S ever had high blood pressure	Categ
10	S10HIBPE	S10HIBPE:W10 S ever had high blood pressure	Categ
11	S11HIBPE	S11HIBPE:W11 S ever had high blood pressure	Categ
12	S12HIBPE	S12HIBPE:W12 S ever had high blood pressure	Categ
1	R1HIBPF	R1HIBPF:W1 Flag dispute chg hi BP	Categ
2	R2HIBPF	R2HIBPF:W2 Flag dispute chg hi BP	Categ
3	R3HIBPF	R3HIBPF:W3 Flag dispute chg hi BP	Categ
4	R4HIBPF	R4HIBPF:W4 Flag dispute chg hi BP	Categ
5	R5HIBPF	R5HIBPF:W5 Flag dispute chg hi BP	Categ
6	R6HIBPF	R6HIBPF:W6 Flag dispute chg hi BP	Categ
7	R7HIBPF	R7HIBPF:W7 Flag dispute chg hi BP	Categ
8	R8HIBPF	R8HIBPF:W8 Flag dispute chg hi BP	Categ
9	R9HIBPF	R9HIBPF:W9 Flag dispute chg hi BP	Categ
10	R10HIBPF	R10HIBPF:W10 Flag dispute chg hi BP	Categ
11	R11HIBPF	R11HIBPF:W11 Flag dispute chg hi BP	Categ
12	R12HIBPF	R12HIBPF:W12 Flag dispute chg hi BP	Categ
1	S1HIBPF	S1HIBPF:W1 Flag dispute chg hi BP	Categ
2	S2HIBPF	S2HIBPF:W2 Flag dispute chg hi BP	Categ
3	S3HIBPF	S3HIBPF:W3 Flag dispute chg hi BP	Categ
4	S4HIBPF	S4HIBPF:W4 Flag dispute chg hi BP	Categ
5	S5HIBPF	S5HIBPF:W5 Flag dispute chg hi BP	Categ
6	S6HIBPF	S6HIBPF:W6 Flag dispute chg hi BP	Categ
7	S7HIBPF	S7HIBPF:W7 Flag dispute chg hi BP	Categ
8	S8HIBPF	S8HIBPF:W8 Flag dispute chg hi BP	Categ
9	S9HIBPF	S9HIBPF:W9 Flag dispute chg hi BP	Categ
10	S10HIBPF	S10HIBPF:W10 Flag dispute chg hi BP	Categ
11	S11HIBPF	S11HIBPF:W11 Flag dispute chg hi BP	Categ
12	S12HIBPF	S12HIBPF:W12 Flag dispute chg hi BP	Categ
1	R1DIABE	R1DIABE:W1 R ever had diabetes	Categ
2	R2DIABE	R2DIABE:W2 R ever had diabetes	Categ
3	R3DIABE	R3DIABE:W3 R ever had diabetes	Categ
4	R4DIABE	R4DIABE:W4 R ever had diabetes	Categ
5	R5DIABE	R5DIABE:W5 R ever had diabetes	Categ
6	R6DIABE	R6DIABE:W6 R ever had diabetes	Categ
7	R7DIABE	R7DIABE:W7 R ever had diabetes	Categ
8	R8DIABE	R8DIABE:W8 R ever had diabetes	Categ
9	R9DIABE	R9DIABE:W9 R ever had diabetes	Categ
10	R10DIABE	R10DIABE:W10 R ever had diabetes	Categ
11	R11DIABE	R11DIABE:W11 R ever had diabetes	Categ
12	R12DIABE	R12DIABE:W12 R ever had diabetes	Categ
1	S1DIABE	S1DIABE:W1 S ever had diabetes	Categ



2	S2DIABE	S2DIABE:W2 S ever had diabetes	Categ
3	S3DIABE	S3DIABE:W3 S ever had diabetes	Categ
4	S4DIABE	S4DIABE:W4 S ever had diabetes	Categ
5	S5DIABE	S5DIABE:W5 S ever had diabetes	Categ
6	S6DIABE	S6DIABE:W6 S ever had diabetes	Categ
7	S7DIABE	S7DIABE:W7 S ever had diabetes	Categ
8	S8DIABE	S8DIABE:W8 S ever had diabetes	Categ
9	S9DIABE	S9DIABE:W9 S ever had diabetes	Categ
10	S10DIABE	S10DIABE:W10 S ever had diabetes	Categ
11	S11DIABE	S11DIABE:W11 S ever had diabetes	Categ
12	S12DIABE	S12DIABE:W12 S ever had diabetes	Categ
1	R1DIABF	R1DIABF:W1 Flag dispute chg diabetes	Categ
2	R2DIABF	R2DIABF:W2 Flag dispute chg diabetes	Categ
3	R3DIABF	R3DIABF:W3 Flag dispute chg diabetes	Categ
4	R4DIABF	R4DIABF:W4 Flag dispute chg diabetes	Categ
5	R5DIABF	R5DIABF:W5 Flag dispute chg diabetes	Categ
6	R6DIABF	R6DIABF:W6 Flag dispute chg diabetes	Categ
7	R7DIABF	R7DIABF:W7 Flag dispute chg diabetes	Categ
8	R8DIABF	R8DIABF:W8 Flag dispute chg diabetes	Categ
9	R9DIABF	R9DIABF:W9 Flag dispute chg diabetes	Categ
10	R10DIABF	R10DIABF:W10 Flag dispute chg diabetes	Categ
11	R11DIABF	R11DIABF:W11 Flag dispute chg diabetes	Categ
12	R12DIABF	R12DIABF:W12 Flag dispute chg diabetes	Categ
1	S1DIABF	S1DIABF:W1 Flag dispute chg diabetes	Categ
2	S2DIABF	S2DIABF:W2 Flag dispute chg diabetes	Categ
3	S3DIABF	S3DIABF:W3 Flag dispute chg diabetes	Categ
4	S4DIABF	S4DIABF:W4 Flag dispute chg diabetes	Categ
5	S5DIABF	S5DIABF:W5 Flag dispute chg diabetes	Categ
6	S6DIABF	S6DIABF:W6 Flag dispute chg diabetes	Categ
7	S7DIABF	S7DIABF:W7 Flag dispute chg diabetes	Categ
8	S8DIABF	S8DIABF:W8 Flag dispute chg diabetes	Categ
9	S9DIABF	S9DIABF:W9 Flag dispute chg diabetes	Categ
10	S10DIABF	S10DIABF:W10 Flag dispute chg diabetes	Categ
11	S11DIABF	S11DIABF:W11 Flag dispute chg diabetes	Categ
12	S12DIABF	S12DIABF:W12 Flag dispute chg diabetes	Categ
1	R1CANCRE	R1CANCRE:W1 R ever had cancer	Categ
2	R2CANCRE	R2CANCRE:W2 R ever had cancer	Categ
3	R3CANCRE	R3CANCRE:W3 R ever had cancer	Categ
4	R4CANCRE	R4CANCRE:W4 R ever had cancer	Categ
5	R5CANCRE	R5CANCRE:W5 R ever had cancer	Categ
6	R6CANCRE	R6CANCRE:W6 R ever had cancer	Categ
7	R7CANCRE	R7CANCRE:W7 R ever had cancer	Categ
8	R8CANCRE	R8CANCRE:W8 R ever had cancer	Categ
9	R9CANCRE	R9CANCRE:W9 R ever had cancer	Categ
10	R10CANCRE	R10CANCRE:W10 R ever had cancer	Categ
11	R11CANCRE	R11CANCRE:W11 R ever had cancer	Categ
12	R12CANCRE	R12CANCRE:W12 R ever had cancer	Categ
1	S1CANCRE	S1CANCRE:W1 S ever had cancer	Categ
2	S2CANCRE	S2CANCRE:W2 S ever had cancer	Categ
3	S3CANCRE	S3CANCRE:W3 S ever had cancer	Categ
4	S4CANCRE	S4CANCRE:W4 S ever had cancer	Categ
5	S5CANCRE	S5CANCRE:W5 S ever had cancer	Categ
6	S6CANCRE	S6CANCRE:W6 S ever had cancer	Categ
7	S7CANCRE	S7CANCRE:W7 S ever had cancer	Categ
8	S8CANCRE	S8CANCRE:W8 S ever had cancer	Categ
9	S9CANCRE	S9CANCRE:W9 S ever had cancer	Categ
10	S10CANCRE	S10CANCRE:W10 S ever had cancer	Categ
11	S11CANCRE	S11CANCRE:W11 S ever had cancer	Categ
12	S12CANCRE	S12CANCRE:W12 S ever had cancer	Categ
1	R1CANCRF	R1CANCRF:W1 Flag dispute chg cancer	Categ
2	R2CANCRF	R2CANCRF:W2 Flag dispute chg cancer	Categ
3	R3CANCRF	R3CANCRF:W3 Flag dispute chg cancer	Categ
4	R4CANCRF	R4CANCRF:W4 Flag dispute chg cancer	Categ
5	R5CANCRF	R5CANCRF:W5 Flag dispute chg cancer	Categ
6	R6CANCRF	R6CANCRF:W6 Flag dispute chg cancer	Categ
7	R7CANCRF	R7CANCRF:W7 Flag dispute chg cancer	Categ
8	R8CANCRF	R8CANCRF:W8 Flag dispute chg cancer	Categ

9	R9CANCERF	R9CANCERF:W9 Flag dispute chg cancer	Categ
10	R10CANCERF	R10CANCERF:W10 Flag dispute chg cancer	Categ
11	R11CANCERF	R11CANCERF:W11 Flag dispute chg cancer	Categ
12	R12CANCERF	R12CANCERF:W12 Flag dispute chg cancer	Categ
1	S1CANCERF	S1CANCERF:W1 Flag dispute chg cancer	Categ
2	S2CANCERF	S2CANCERF:W2 Flag dispute chg cancer	Categ
3	S3CANCERF	S3CANCERF:W3 Flag dispute chg cancer	Categ
4	S4CANCERF	S4CANCERF:W4 Flag dispute chg cancer	Categ
5	S5CANCERF	S5CANCERF:W5 Flag dispute chg cancer	Categ
6	S6CANCERF	S6CANCERF:W6 Flag dispute chg cancer	Categ
7	S7CANCERF	S7CANCERF:W7 Flag dispute chg cancer	Categ
8	S8CANCERF	S8CANCERF:W8 Flag dispute chg cancer	Categ
9	S9CANCERF	S9CANCERF:W9 Flag dispute chg cancer	Categ
10	S10CANCERF	S10CANCERF:W10 Flag dispute chg cancer	Categ
11	S11CANCERF	S11CANCERF:W11 Flag dispute chg cancer	Categ
12	S12CANCERF	S12CANCERF:W12 Flag dispute chg cancer	Categ
1	R1LUNGE	R1LUNGE:W1 R ever had lung disease	Categ
2	R2LUNGE	R2LUNGE:W2 R ever had lung disease	Categ
3	R3LUNGE	R3LUNGE:W3 R ever had lung disease	Categ
4	R4LUNGE	R4LUNGE:W4 R ever had lung disease	Categ
5	R5LUNGE	R5LUNGE:W5 R ever had lung disease	Categ
6	R6LUNGE	R6LUNGE:W6 R ever had lung disease	Categ
7	R7LUNGE	R7LUNGE:W7 R ever had lung disease	Categ
8	R8LUNGE	R8LUNGE:W8 R ever had lung disease	Categ
9	R9LUNGE	R9LUNGE:W9 R ever had lung disease	Categ
10	R10LUNGE	R10LUNGE:W10 R ever had lung disease	Categ
11	R11LUNGE	R11LUNGE:W11 R ever had lung disease	Categ
12	R12LUNGE	R12LUNGE:W12 R ever had lung disease	Categ
1	S1LUNGE	S1LUNGE:W1 S ever had lung disease	Categ
2	S2LUNGE	S2LUNGE:W2 S ever had lung disease	Categ
3	S3LUNGE	S3LUNGE:W3 S ever had lung disease	Categ
4	S4LUNGE	S4LUNGE:W4 S ever had lung disease	Categ
5	S5LUNGE	S5LUNGE:W5 S ever had lung disease	Categ
6	S6LUNGE	S6LUNGE:W6 S ever had lung disease	Categ
7	S7LUNGE	S7LUNGE:W7 S ever had lung disease	Categ
8	S8LUNGE	S8LUNGE:W8 S ever had lung disease	Categ
9	S9LUNGE	S9LUNGE:W9 S ever had lung disease	Categ
10	S10LUNGE	S10LUNGE:W10 S ever had lung disease	Categ
11	S11LUNGE	S11LUNGE:W11 S ever had lung disease	Categ
12	S12LUNGE	S12LUNGE:W12 S ever had lung disease	Categ
1	R1LUNGF	R1LUNGF:W1 Flag dispute chg lung disease	Categ
2	R2LUNGF	R2LUNGF:W2 Flag dispute chg lung disease	Categ
3	R3LUNGF	R3LUNGF:W3 Flag dispute chg lung disease	Categ
4	R4LUNGF	R4LUNGF:W4 Flag dispute chg lung disease	Categ
5	R5LUNGF	R5LUNGF:W5 Flag dispute chg lung disease	Categ
6	R6LUNGF	R6LUNGF:W6 Flag dispute chg lung disease	Categ
7	R7LUNGF	R7LUNGF:W7 Flag dispute chg lung disease	Categ
8	R8LUNGF	R8LUNGF:W8 Flag dispute chg lung disease	Categ
9	R9LUNGF	R9LUNGF:W9 Flag dispute chg lung disease	Categ
10	R10LUNGF	R10LUNGF:W10 Flag dispute chg lung disease	Categ
11	R11LUNGF	R11LUNGF:W11 Flag dispute chg lung disease	Categ
12	R12LUNGF	R12LUNGF:W12 Flag dispute chg lung disease	Categ
1	S1LUNGF	S1LUNGF:W1 Flag dispute chg lung disease	Categ
2	S2LUNGF	S2LUNGF:W2 Flag dispute chg lung disease	Categ
3	S3LUNGF	S3LUNGF:W3 Flag dispute chg lung disease	Categ
4	S4LUNGF	S4LUNGF:W4 Flag dispute chg lung disease	Categ
5	S5LUNGF	S5LUNGF:W5 Flag dispute chg lung disease	Categ
6	S6LUNGF	S6LUNGF:W6 Flag dispute chg lung disease	Categ
7	S7LUNGF	S7LUNGF:W7 Flag dispute chg lung disease	Categ
8	S8LUNGF	S8LUNGF:W8 Flag dispute chg lung disease	Categ
9	S9LUNGF	S9LUNGF:W9 Flag dispute chg lung disease	Categ
10	S10LUNGF	S10LUNGF:W10 Flag dispute chg lung disease	Categ
11	S11LUNGF	S11LUNGF:W11 Flag dispute chg lung disease	Categ
12	S12LUNGF	S12LUNGF:W12 Flag dispute chg lung disease	Categ
1	R1HEARTE	R1HEARTE:W1 R ever had heart problems	Categ
2	R2HEARTE	R2HEARTE:W2 R ever had heart problems	Categ

3	R3HEARTE	R3HEARTE:W3 R ever had heart problems	Categ
4	R4HEARTE	R4HEARTE:W4 R ever had heart problems	Categ
5	R5HEARTE	R5HEARTE:W5 R ever had heart problems	Categ
6	R6HEARTE	R6HEARTE:W6 R ever had heart problems	Categ
7	R7HEARTE	R7HEARTE:W7 R ever had heart problems	Categ
8	R8HEARTE	R8HEARTE:W8 R ever had heart problems	Categ
9	R9HEARTE	R9HEARTE:W9 R ever had heart problems	Categ
10	R10HEARTE	R10HEARTE:W10 R ever had heart problems	Categ
11	R11HEARTE	R11HEARTE:W11 R ever had heart problems	Categ
12	R12HEARTE	R12HEARTE:W12 R ever had heart problems	Categ
1	S1HEARTE	S1HEARTE:W1 S ever had heart problems	Categ
2	S2HEARTE	S2HEARTE:W2 S ever had heart problems	Categ
3	S3HEARTE	S3HEARTE:W3 S ever had heart problems	Categ
4	S4HEARTE	S4HEARTE:W4 S ever had heart problems	Categ
5	S5HEARTE	S5HEARTE:W5 S ever had heart problems	Categ
6	S6HEARTE	S6HEARTE:W6 S ever had heart problems	Categ
7	S7HEARTE	S7HEARTE:W7 S ever had heart problems	Categ
8	S8HEARTE	S8HEARTE:W8 S ever had heart problems	Categ
9	S9HEARTE	S9HEARTE:W9 S ever had heart problems	Categ
10	S10HEARTE	S10HEARTE:W10 S ever had heart problems	Categ
11	S11HEARTE	S11HEARTE:W11 S ever had heart problems	Categ
12	S12HEARTE	S12HEARTE:W12 S ever had heart problems	Categ
1	R1HEARTF	R1HEARTF:W1 Flag dispute chg heart prob	Categ
2	R2HEARTF	R2HEARTF:W2 Flag dispute chg heart prob	Categ
3	R3HEARTF	R3HEARTF:W3 Flag dispute chg heart prob	Categ
4	R4HEARTF	R4HEARTF:W4 Flag dispute chg heart prob	Categ
5	R5HEARTF	R5HEARTF:W5 Flag dispute chg heart prob	Categ
6	R6HEARTF	R6HEARTF:W6 Flag dispute chg heart prob	Categ
7	R7HEARTF	R7HEARTF:W7 Flag dispute chg heart prob	Categ
8	R8HEARTF	R8HEARTF:W8 Flag dispute chg heart prob	Categ
9	R9HEARTF	R9HEARTF:W9 Flag dispute chg heart prob	Categ
10	R10HEARTF	R10HEARTF:W10 Flag dispute chg heart prob	Categ
11	R11HEARTF	R11HEARTF:W11 Flag dispute chg heart prob	Categ
12	R12HEARTF	R12HEARTF:W12 Flag dispute chg heart prob	Categ
1	S1HEARTF	S1HEARTF:W1 Flag dispute chg heart prob	Categ
2	S2HEARTF	S2HEARTF:W2 Flag dispute chg heart prob	Categ
3	S3HEARTF	S3HEARTF:W3 Flag dispute chg heart prob	Categ
4	S4HEARTF	S4HEARTF:W4 Flag dispute chg heart prob	Categ
5	S5HEARTF	S5HEARTF:W5 Flag dispute chg heart prob	Categ
6	S6HEARTF	S6HEARTF:W6 Flag dispute chg heart prob	Categ
7	S7HEARTF	S7HEARTF:W7 Flag dispute chg heart prob	Categ
8	S8HEARTF	S8HEARTF:W8 Flag dispute chg heart prob	Categ
9	S9HEARTF	S9HEARTF:W9 Flag dispute chg heart prob	Categ
10	S10HEARTF	S10HEARTF:W10 Flag dispute chg heart prob	Categ
11	S11HEARTF	S11HEARTF:W11 Flag dispute chg heart prob	Categ
12	S12HEARTF	S12HEARTF:W12 Flag dispute chg heart prob	Categ
1	R1STROKE	R1STROKE:W1 R ever had stroke	Categ
2	R2STROKE	R2STROKE:W2 R ever had stroke	Categ
3	R3STROKE	R3STROKE:W3 R ever had stroke	Categ
4	R4STROKE	R4STROKE:W4 R ever had stroke	Categ
5	R5STROKE	R5STROKE:W5 R ever had stroke	Categ
6	R6STROKE	R6STROKE:W6 R ever had stroke	Categ
7	R7STROKE	R7STROKE:W7 R ever had stroke	Categ
8	R8STROKE	R8STROKE:W8 R ever had stroke	Categ
9	R9STROKE	R9STROKE:W9 R ever had stroke	Categ
10	R10STROKE	R10STROKE:W10 R ever had stroke	Categ
11	R11STROKE	R11STROKE:W11 R ever had stroke	Categ
12	R12STROKE	R12STROKE:W12 R ever had stroke	Categ
1	S1STROKE	S1STROKE:W1 S ever had stroke	Categ
2	S2STROKE	S2STROKE:W2 S ever had stroke	Categ
3	S3STROKE	S3STROKE:W3 S ever had stroke	Categ
4	S4STROKE	S4STROKE:W4 S ever had stroke	Categ
5	S5STROKE	S5STROKE:W5 S ever had stroke	Categ
6	S6STROKE	S6STROKE:W6 S ever had stroke	Categ
7	S7STROKE	S7STROKE:W7 S ever had stroke	Categ
8	S8STROKE	S8STROKE:W8 S ever had stroke	Categ
9	S9STROKE	S9STROKE:W9 S ever had stroke	Categ

10	S10STROKE	S10STROKE:W10 S ever had stroke	Categ
11	S11STROKE	S11STROKE:W11 S ever had stroke	Categ
12	S12STROKE	S12STROKE:W12 S ever had stroke	Categ
1	R1STROKF	R1STROKF:W1 Flag dispute chg stroke	Categ
2	R2STROKF	R2STROKF:W2 Flag dispute chg stroke	Categ
3	R3STROKF	R3STROKF:W3 Flag dispute chg stroke	Categ
4	R4STROKF	R4STROKF:W4 Flag dispute chg stroke	Categ
5	R5STROKF	R5STROKF:W5 Flag dispute chg stroke	Categ
6	R6STROKF	R6STROKF:W6 Flag dispute chg stroke	Categ
7	R7STROKF	R7STROKF:W7 Flag dispute chg stroke	Categ
8	R8STROKF	R8STROKF:W8 Flag dispute chg stroke	Categ
9	R9STROKF	R9STROKF:W9 Flag dispute chg stroke	Categ
10	R10STROKF	R10STROKF:W10 Flag dispute chg stroke	Categ
11	R11STROKF	R11STROKF:W11 Flag dispute chg stroke	Categ
12	R12STROKF	R12STROKF:W12 Flag dispute chg stroke	Categ
1	S1STROKF	S1STROKF:W1 Flag dispute chg stroke	Categ
2	S2STROKF	S2STROKF:W2 Flag dispute chg stroke	Categ
3	S3STROKF	S3STROKF:W3 Flag dispute chg stroke	Categ
4	S4STROKF	S4STROKF:W4 Flag dispute chg stroke	Categ
5	S5STROKF	S5STROKF:W5 Flag dispute chg stroke	Categ
6	S6STROKF	S6STROKF:W6 Flag dispute chg stroke	Categ
7	S7STROKF	S7STROKF:W7 Flag dispute chg stroke	Categ
8	S8STROKF	S8STROKF:W8 Flag dispute chg stroke	Categ
9	S9STROKF	S9STROKF:W9 Flag dispute chg stroke	Categ
10	S10STROKF	S10STROKF:W10 Flag dispute chg stroke	Categ
11	S11STROKF	S11STROKF:W11 Flag dispute chg stroke	Categ
12	S12STROKF	S12STROKF:W12 Flag dispute chg stroke	Categ
1	R1PSYCHE	R1PSYCHE:W1 R ever had psych problems	Categ
2	R2PSYCHE	R2PSYCHE:W2 R ever had psych problems	Categ
3	R3PSYCHE	R3PSYCHE:W3 R ever had psych problems	Categ
4	R4PSYCHE	R4PSYCHE:W4 R ever had psych problems	Categ
5	R5PSYCHE	R5PSYCHE:W5 R ever had psych problems	Categ
6	R6PSYCHE	R6PSYCHE:W6 R ever had psych problems	Categ
7	R7PSYCHE	R7PSYCHE:W7 R ever had psych problems	Categ
8	R8PSYCHE	R8PSYCHE:W8 R ever had psych problems	Categ
9	R9PSYCHE	R9PSYCHE:W9 R ever had psych problems	Categ
10	R10PSYCHE	R10PSYCHE:W10 R ever had psych problems	Categ
11	R11PSYCHE	R11PSYCHE:W11 R ever had psych problems	Categ
12	R12PSYCHE	R12PSYCHE:W12 R ever had psych problems	Categ
1	S1PSYCHE	S1PSYCHE:W1 S ever had psych problems	Categ
2	S2PSYCHE	S2PSYCHE:W2 S ever had psych problems	Categ
3	S3PSYCHE	S3PSYCHE:W3 S ever had psych problems	Categ
4	S4PSYCHE	S4PSYCHE:W4 S ever had psych problems	Categ
5	S5PSYCHE	S5PSYCHE:W5 S ever had psych problems	Categ
6	S6PSYCHE	S6PSYCHE:W6 S ever had psych problems	Categ
7	S7PSYCHE	S7PSYCHE:W7 S ever had psych problems	Categ
8	S8PSYCHE	S8PSYCHE:W8 S ever had psych problems	Categ
9	S9PSYCHE	S9PSYCHE:W9 S ever had psych problems	Categ
10	S10PSYCHE	S10PSYCHE:W10 S ever had psych problems	Categ
11	S11PSYCHE	S11PSYCHE:W11 S ever had psych problems	Categ
12	S12PSYCHE	S12PSYCHE:W12 S ever had psych problems	Categ
1	R1PSYCHF	R1PSYCHF:W1 Flag dispute chg psych probs	Categ
2	R2PSYCHF	R2PSYCHF:W2 Flag dispute chg psych probs	Categ
3	R3PSYCHF	R3PSYCHF:W3 Flag dispute chg psych probs	Categ
4	R4PSYCHF	R4PSYCHF:W4 Flag dispute chg psych probs	Categ
5	R5PSYCHF	R5PSYCHF:W5 Flag dispute chg psych probs	Categ
6	R6PSYCHF	R6PSYCHF:W6 Flag dispute chg psych probs	Categ
7	R7PSYCHF	R7PSYCHF:W7 Flag dispute chg psych probs	Categ
8	R8PSYCHF	R8PSYCHF:W8 Flag dispute chg psych probs	Categ
9	R9PSYCHF	R9PSYCHF:W9 Flag dispute chg psych probs	Categ
10	R10PSYCHF	R10PSYCHF:W10 Flag dispute chg psych probs	Categ
11	R11PSYCHF	R11PSYCHF:W11 Flag dispute chg psych probs	Categ
12	R12PSYCHF	R12PSYCHF:W12 Flag dispute chg psych probs	Categ
1	S1PSYCHF	S1PSYCHF:W1 Flag dispute chg psych probs	Categ
2	S2PSYCHF	S2PSYCHF:W2 Flag dispute chg psych probs	Categ
3	S3PSYCHF	S3PSYCHF:W3 Flag dispute chg psych probs	Categ

4	S4PSYCHF	S4PSYCHF:W4 Flag dispute chg psych probs	Categ
5	S5PSYCHF	S5PSYCHF:W5 Flag dispute chg psych probs	Categ
6	S6PSYCHF	S6PSYCHF:W6 Flag dispute chg psych probs	Categ
7	S7PSYCHF	S7PSYCHF:W7 Flag dispute chg psych probs	Categ
8	S8PSYCHF	S8PSYCHF:W8 Flag dispute chg psych probs	Categ
9	S9PSYCHF	S9PSYCHF:W9 Flag dispute chg psych probs	Categ
10	S10PSYCHF	S10PSYCHF:W10 Flag dispute chg psych probs	Categ
11	S11PSYCHF	S11PSYCHF:W11 Flag dispute chg psych probs	Categ
12	S12PSYCHF	S12PSYCHF:W12 Flag dispute chg psych probs	Categ
1	R1ARTHRE	R1ARTHRE:W1 R ever had arthritis	Categ
2	R2ARTHRE	R2ARTHRE:W2 R ever had arthritis	Categ
3	R3ARTHRE	R3ARTHRE:W3 R ever had arthritis	Categ
4	R4ARTHRE	R4ARTHRE:W4 R ever had arthritis	Categ
5	R5ARTHRE	R5ARTHRE:W5 R ever had arthritis	Categ
6	R6ARTHRE	R6ARTHRE:W6 R ever had arthritis	Categ
7	R7ARTHRE	R7ARTHRE:W7 R ever had arthritis	Categ
8	R8ARTHRE	R8ARTHRE:W8 R ever had arthritis	Categ
9	R9ARTHRE	R9ARTHRE:W9 R ever had arthritis	Categ
10	R10ARTHRE	R10ARTHRE:W10 R ever had arthritis	Categ
11	R11ARTHRE	R11ARTHRE:W11 R ever had arthritis	Categ
12	R12ARTHRE	R12ARTHRE:W12 R ever had arthritis	Categ
1	S1ARTHRE	S1ARTHRE:W1 S ever had arthritis	Categ
2	S2ARTHRE	S2ARTHRE:W2 S ever had arthritis	Categ
3	S3ARTHRE	S3ARTHRE:W3 S ever had arthritis	Categ
4	S4ARTHRE	S4ARTHRE:W4 S ever had arthritis	Categ
5	S5ARTHRE	S5ARTHRE:W5 S ever had arthritis	Categ
6	S6ARTHRE	S6ARTHRE:W6 S ever had arthritis	Categ
7	S7ARTHRE	S7ARTHRE:W7 S ever had arthritis	Categ
8	S8ARTHRE	S8ARTHRE:W8 S ever had arthritis	Categ
9	S9ARTHRE	S9ARTHRE:W9 S ever had arthritis	Categ
10	S10ARTHRE	S10ARTHRE:W10 S ever had arthritis	Categ
11	S11ARTHRE	S11ARTHRE:W11 S ever had arthritis	Categ
12	S12ARTHRE	S12ARTHRE:W12 S ever had arthritis	Categ
1	R1ARTHRF	R1ARTHRF:W1 Flag dispute chg arthritis	Categ
2	R2ARTHRF	R2ARTHRF:W2 Flag dispute chg arthritis	Categ
3	R3ARTHRF	R3ARTHRF:W3 Flag dispute chg arthritis	Categ
4	R4ARTHRF	R4ARTHRF:W4 Flag dispute chg arthritis	Categ
5	R5ARTHRF	R5ARTHRF:W5 Flag dispute chg arthritis	Categ
6	R6ARTHRF	R6ARTHRF:W6 Flag dispute chg arthritis	Categ
7	R7ARTHRF	R7ARTHRF:W7 Flag dispute chg arthritis	Categ
8	R8ARTHRF	R8ARTHRF:W8 Flag dispute chg arthritis	Categ
9	R9ARTHRF	R9ARTHRF:W9 Flag dispute chg arthritis	Categ
10	R10ARTHRF	R10ARTHRF:W10 Flag dispute chg arthritis	Categ
11	R11ARTHRF	R11ARTHRF:W11 Flag dispute chg arthritis	Categ
12	R12ARTHRF	R12ARTHRF:W12 Flag dispute chg arthritis	Categ
1	S1ARTHRF	S1ARTHRF:W1 Flag dispute chg arthritis	Categ
2	S2ARTHRF	S2ARTHRF:W2 Flag dispute chg arthritis	Categ
3	S3ARTHRF	S3ARTHRF:W3 Flag dispute chg arthritis	Categ
4	S4ARTHRF	S4ARTHRF:W4 Flag dispute chg arthritis	Categ
5	S5ARTHRF	S5ARTHRF:W5 Flag dispute chg arthritis	Categ
6	S6ARTHRF	S6ARTHRF:W6 Flag dispute chg arthritis	Categ
7	S7ARTHRF	S7ARTHRF:W7 Flag dispute chg arthritis	Categ
8	S8ARTHRF	S8ARTHRF:W8 Flag dispute chg arthritis	Categ
9	S9ARTHRF	S9ARTHRF:W9 Flag dispute chg arthritis	Categ
10	S10ARTHRF	S10ARTHRF:W10 Flag dispute chg arthritis	Categ
11	S11ARTHRF	S11ARTHRF:W11 Flag dispute chg arthritis	Categ
12	S12ARTHRF	S12ARTHRF:W12 Flag dispute chg arthritis	Categ
1	R1CONDE	R1CONDE:W1 Sum of conditions ever had	Cont
2	R2CONDE	R2CONDE:W2 Sum of conditions ever had	Cont
3	R3CONDE	R3CONDE:W3 Sum of conditions ever had	Cont
4	R4CONDE	R4CONDE:W4 Sum of conditions ever had	Cont
5	R5CONDE	R5CONDE:W5 Sum of conditions ever had	Cont
6	R6CONDE	R6CONDE:W6 Sum of conditions ever had	Cont
7	R7CONDE	R7CONDE:W7 Sum of conditions ever had	Cont
8	R8CONDE	R8CONDE:W8 Sum of conditions ever had	Cont
9	R9CONDE	R9CONDE:W9 Sum of conditions ever had	Cont
10	R10CONDE	R10CONDE:W10 Sum of conditions ever had	Cont

11	R11CONDE	R11CONDE:W11 Sum of conditions ever had	Cont
12	R12CONDE	R12CONDE:W12 Sum of conditions ever had	Cont
1	S1CONDE	S1CONDE:W1 Sum of conditions ever had	Cont
2	S2CONDE	S2CONDE:W2 Sum of conditions ever had	Cont
3	S3CONDE	S3CONDE:W3 Sum of conditions ever had	Cont
4	S4CONDE	S4CONDE:W4 Sum of conditions ever had	Cont
5	S5CONDE	S5CONDE:W5 Sum of conditions ever had	Cont
6	S6CONDE	S6CONDE:W6 Sum of conditions ever had	Cont
7	S7CONDE	S7CONDE:W7 Sum of conditions ever had	Cont
8	S8CONDE	S8CONDE:W8 Sum of conditions ever had	Cont
9	S9CONDE	S9CONDE:W9 Sum of conditions ever had	Cont
10	S10CONDE	S10CONDE:W10 Sum of conditions ever had	Cont
11	S11CONDE	S11CONDE:W11 Sum of conditions ever had	Cont
12	S12CONDE	S12CONDE:W12 Sum of conditions ever had	Cont
1	R1CONDEF	R1CONDEF:W1 # chg from dispute/sum ever	Cont
2	R2CONDEF	R2CONDEF:W2 # chg from dispute/sum ever	Cont
3	R3CONDEF	R3CONDEF:W3 # chg from dispute/sum ever	Cont
4	R4CONDEF	R4CONDEF:W4 # chg from dispute/sum ever	Cont
5	R5CONDEF	R5CONDEF:W5 # chg from dispute/sum ever	Cont
6	R6CONDEF	R6CONDEF:W6 # chg from dispute/sum ever	Cont
7	R7CONDEF	R7CONDEF:W7 # chg from dispute/sum ever	Cont
8	R8CONDEF	R8CONDEF:W8 # chg from dispute/sum ever	Cont
9	R9CONDEF	R9CONDEF:W9 # chg from dispute/sum ever	Cont
10	R10CONDEF	R10CONDEF:W10 # chg from dispute/sum ever	Cont
11	R11CONDEF	R11CONDEF:W11 # chg from dispute/sum ever	Cont
12	R12CONDEF	R12CONDEF:W12 # chg from dispute/sum ever	Cont
1	S1CONDEF	S1CONDEF:W1 # chg from dispute/sum ever	Cont
2	S2CONDEF	S2CONDEF:W2 # chg from dispute/sum ever	Cont
3	S3CONDEF	S3CONDEF:W3 # chg from dispute/sum ever	Cont
4	S4CONDEF	S4CONDEF:W4 # chg from dispute/sum ever	Cont
5	S5CONDEF	S5CONDEF:W5 # chg from dispute/sum ever	Cont
6	S6CONDEF	S6CONDEF:W6 # chg from dispute/sum ever	Cont
7	S7CONDEF	S7CONDEF:W7 # chg from dispute/sum ever	Cont
8	S8CONDEF	S8CONDEF:W8 # chg from dispute/sum ever	Cont
9	S9CONDEF	S9CONDEF:W9 # chg from dispute/sum ever	Cont
10	S10CONDEF	S10CONDEF:W10 # chg from dispute/sum ever	Cont
11	S11CONDEF	S11CONDEF:W11 # chg from dispute/sum ever	Cont
12	S12CONDEF	S12CONDEF:W12 # chg from dispute/sum ever	Cont
1	R1CONDEM	R1CONDEM:W1 # missings in sum cond ever	Cont
2	R2CONDEM	R2CONDEM:W2 # missings in sum cond ever	Cont
3	R3CONDEM	R3CONDEM:W3 # missings in sum cond ever	Cont
4	R4CONDEM	R4CONDEM:W4 # missings in sum cond ever	Cont
5	R5CONDEM	R5CONDEM:W5 # missings in sum cond ever	Cont
6	R6CONDEM	R6CONDEM:W6 # missings in sum cond ever	Cont
7	R7CONDEM	R7CONDEM:W7 # missings in sum cond ever	Cont
8	R8CONDEM	R8CONDEM:W8 # missings in sum cond ever	Cont
9	R9CONDEM	R9CONDEM:W9 # missings in sum cond ever	Cont
10	R10CONDEM	R10CONDEM:W10 # missings in sum cond ever	Cont
11	R11CONDEM	R11CONDEM:W11 # missings in sum cond ever	Cont
12	R12CONDEM	R12CONDEM:W12 # missings in sum cond ever	Cont
1	S1CONDEM	S1CONDEM:W1 # missings in sum cond ever	Cont
2	S2CONDEM	S2CONDEM:W2 # missings in sum cond ever	Cont
3	S3CONDEM	S3CONDEM:W3 # missings in sum cond ever	Cont
4	S4CONDEM	S4CONDEM:W4 # missings in sum cond ever	Cont
5	S5CONDEM	S5CONDEM:W5 # missings in sum cond ever	Cont
6	S6CONDEM	S6CONDEM:W6 # missings in sum cond ever	Cont
7	S7CONDEM	S7CONDEM:W7 # missings in sum cond ever	Cont
8	S8CONDEM	S8CONDEM:W8 # missings in sum cond ever	Cont
9	S9CONDEM	S9CONDEM:W9 # missings in sum cond ever	Cont
10	S10CONDEM	S10CONDEM:W10 # missings in sum cond ever	Cont
11	S11CONDEM	S11CONDEM:W11 # missings in sum cond ever	Cont
12	S12CONDEM	S12CONDEM:W12 # missings in sum cond ever	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBPE	12652	0.33	0.47	0.0	1.0
R2HIBPE	19630	0.40	0.49	0.0	1.0
R3HIBPE	17975	0.42	0.49	0.0	1.0
R4HIBPE	21362	0.43	0.50	0.0	1.0
R5HIBPE	19559	0.46	0.50	0.0	1.0
R6HIBPE	18143	0.51	0.50	0.0	1.0
R7HIBPE	20100	0.51	0.50	0.0	1.0
R8HIBPE	18441	0.55	0.50	0.0	1.0
R9HIBPE	17183	0.59	0.49	0.0	1.0
R10HIBPE	21991	0.57	0.49	0.0	1.0
R11HIBPE	20509	0.61	0.49	0.0	1.0
R12HIBPE	18701	0.63	0.48	0.0	1.0
S1HIBPE	9900	0.32	0.46	0.0	1.0
S2HIBPE	13084	0.37	0.48	0.0	1.0
S3HIBPE	11908	0.39	0.49	0.0	1.0
S4HIBPE	13968	0.40	0.49	0.0	1.0
S5HIBPE	12722	0.44	0.50	0.0	1.0
S6HIBPE	11628	0.48	0.50	0.0	1.0
S7HIBPE	12962	0.48	0.50	0.0	1.0
S8HIBPE	11727	0.52	0.50	0.0	1.0
S9HIBPE	10631	0.56	0.50	0.0	1.0
S10HIBPE	13494	0.54	0.50	0.0	1.0
S11HIBPE	12462	0.57	0.49	0.0	1.0
S12HIBPE	11002	0.59	0.49	0.0	1.0
R1HIBPF	12652	0.50	1.55	0.0	6.0
R2HIBPF	19642	0.48	1.55	0.0	6.0
R3HIBPF	17991	0.46	1.45	0.0	6.0
R4HIBPF	21384	0.38	1.32	0.0	6.0
R5HIBPF	19579	0.34	1.27	0.0	8.0
R6HIBPF	18165	0.38	1.47	0.0	10.0
R7HIBPF	20129	0.33	1.36	0.0	10.0
R8HIBPF	18469	0.30	1.33	0.0	10.0
R9HIBPF	17217	0.25	1.22	0.0	10.0
R10HIBPF	22034	0.19	1.10	0.0	10.0
R11HIBPF	20554	0.14	0.93	0.0	10.0
R12HIBPF	18747	0.07	0.70	0.0	10.0
S1HIBPF	9900	0.49	1.53	0.0	6.0
S2HIBPF	13088	0.48	1.55	0.0	6.0
S3HIBPF	11915	0.44	1.41	0.0	6.0
S4HIBPF	13978	0.37	1.31	0.0	6.0
S5HIBPF	12730	0.34	1.26	0.0	8.0
S6HIBPF	11639	0.36	1.41	0.0	10.0
S7HIBPF	12972	0.30	1.28	0.0	10.0
S8HIBPF	11735	0.29	1.30	0.0	10.0
S9HIBPF	10646	0.23	1.14	0.0	10.0
S10HIBPF	13513	0.19	1.08	0.0	10.0
S11HIBPF	12488	0.14	0.94	0.0	10.0
S12HIBPF	11027	0.07	0.66	0.0	10.0
R1DIABE	12652	0.09	0.29	0.0	1.0
R2DIABE	19632	0.12	0.32	0.0	1.0
R3DIABE	17971	0.13	0.33	0.0	1.0
R4DIABE	21361	0.13	0.34	0.0	1.0

R5DIABE	19556	0.14	0.35	0.0	1.0
R6DIABE	18143	0.17	0.37	0.0	1.0
R7DIABE	20100	0.17	0.38	0.0	1.0
R8DIABE	18435	0.19	0.39	0.0	1.0
R9DIABE	17186	0.21	0.41	0.0	1.0
R10DIABE	21995	0.22	0.41	0.0	1.0
R11DIABE	20515	0.24	0.43	0.0	1.0
R12DIABE	18709	0.26	0.44	0.0	1.0
S1DIABE	9900	0.09	0.28	0.0	1.0
S2DIABE	13085	0.11	0.31	0.0	1.0
S3DIABE	11907	0.12	0.32	0.0	1.0
S4DIABE	13970	0.12	0.33	0.0	1.0
S5DIABE	12719	0.14	0.35	0.0	1.0
S6DIABE	11627	0.16	0.37	0.0	1.0
S7DIABE	12958	0.16	0.37	0.0	1.0
S8DIABE	11720	0.18	0.39	0.0	1.0
S9DIABE	10633	0.20	0.40	0.0	1.0
S10DIABE	13501	0.21	0.41	0.0	1.0
S11DIABE	12471	0.23	0.42	0.0	1.0
S12DIABE	11014	0.25	0.44	0.0	1.0
R1DIABF	12652	0.22	1.00	0.0	6.0
R2DIABF	19642	0.18	0.95	0.0	6.0
R3DIABF	17991	0.18	0.89	0.0	6.0
R4DIABF	21384	0.16	0.85	0.0	6.0
R5DIABF	19579	0.15	0.83	0.0	8.0
R6DIABF	18165	0.17	0.93	0.0	10.0
R7DIABF	20129	0.15	0.87	0.0	10.0
R8DIABF	18469	0.15	0.88	0.0	10.0
R9DIABF	17217	0.13	0.82	0.0	10.0
R10DIABF	22034	0.11	0.80	0.0	10.0
R11DIABF	20554	0.08	0.67	0.0	10.0
R12DIABF	18747	0.03	0.43	0.0	10.0
S1DIABF	9900	0.21	0.98	0.0	6.0
S2DIABF	13088	0.19	0.97	0.0	6.0
S3DIABF	11915	0.18	0.90	0.0	6.0
S4DIABF	13978	0.16	0.85	0.0	6.0
S5DIABF	12730	0.15	0.83	0.0	8.0
S6DIABF	11639	0.16	0.91	0.0	10.0
S7DIABF	12972	0.15	0.87	0.0	10.0
S8DIABF	11735	0.14	0.87	0.0	10.0
S9DIABF	10646	0.12	0.79	0.0	10.0
S10DIABF	13513	0.11	0.79	0.0	10.0
S11DIABF	12488	0.07	0.63	0.0	10.0
S12DIABF	11027	0.03	0.38	0.0	10.0
R1CANCRE	12652	0.05	0.21	0.0	1.0
R2CANCRE	19631	0.08	0.28	0.0	1.0
R3CANCRE	17971	0.10	0.29	0.0	1.0
R4CANCRE	21358	0.10	0.30	0.0	1.0
R5CANCRE	19546	0.11	0.32	0.0	1.0
R6CANCRE	18133	0.13	0.34	0.0	1.0
R7CANCRE	20089	0.13	0.33	0.0	1.0
R8CANCRE	18424	0.14	0.35	0.0	1.0
R9CANCRE	17173	0.15	0.36	0.0	1.0
R10CANCRE	21981	0.14	0.34	0.0	1.0
R11CANCRE	20502	0.15	0.36	0.0	1.0



R12CANCRE	18695	0.16	0.37	0.0	1.0
S1CANCRE	9900	0.05	0.21	0.0	1.0
S2CANCRE	13082	0.08	0.27	0.0	1.0
S3CANCRE	11902	0.09	0.28	0.0	1.0
S4CANCRE	13965	0.10	0.29	0.0	1.0
S5CANCRE	12715	0.11	0.31	0.0	1.0
S6CANCRE	11621	0.12	0.33	0.0	1.0
S7CANCRE	12951	0.12	0.32	0.0	1.0
S8CANCRE	11713	0.13	0.34	0.0	1.0
S9CANCRE	10624	0.15	0.36	0.0	1.0
S10CANCRE	13490	0.13	0.34	0.0	1.0
S11CANCRE	12461	0.14	0.35	0.0	1.0
S12CANCRE	11004	0.15	0.36	0.0	1.0
R1CANCRF	12652	0.10	0.69	0.0	6.0
R2CANCRF	19642	0.11	0.74	0.0	6.0
R3CANCRF	17991	0.11	0.72	0.0	6.0
R4CANCRF	21384	0.09	0.67	0.0	6.0
R5CANCRF	19579	0.08	0.65	0.0	8.0
R6CANCRF	18165	0.10	0.77	0.0	10.0
R7CANCRF	20129	0.09	0.72	0.0	10.0
R8CANCRF	18469	0.08	0.74	0.0	10.0
R9CANCRF	17217	0.07	0.67	0.0	10.0
R10CANCRF	22034	0.06	0.63	0.0	10.0
R11CANCRF	20554	0.05	0.57	0.0	10.0
R12CANCRF	18747	0.03	0.44	0.0	10.0
S1CANCRF	9900	0.10	0.68	0.0	6.0
S2CANCRF	13088	0.11	0.73	0.0	6.0
S3CANCRF	11915	0.10	0.70	0.0	6.0
S4CANCRF	13978	0.09	0.66	0.0	6.0
S5CANCRF	12730	0.08	0.63	0.0	8.0
S6CANCRF	11639	0.09	0.74	0.0	10.0
S7CANCRF	12972	0.07	0.64	0.0	10.0
S8CANCRF	11735	0.07	0.70	0.0	10.0
S9CANCRF	10646	0.06	0.62	0.0	10.0
S10CANCRF	13513	0.05	0.60	0.0	10.0
S11CANCRF	12488	0.04	0.55	0.0	10.0
S12CANCRF	11027	0.02	0.38	0.0	10.0
R1LUNGE	12652	0.05	0.22	0.0	1.0
R2LUNGE	19634	0.07	0.26	0.0	1.0
R3LUNGE	17983	0.07	0.26	0.0	1.0
R4LUNGE	21372	0.07	0.26	0.0	1.0
R5LUNGE	19564	0.08	0.26	0.0	1.0
R6LUNGE	18145	0.08	0.27	0.0	1.0
R7LUNGE	20106	0.08	0.27	0.0	1.0
R8LUNGE	18436	0.09	0.29	0.0	1.0
R9LUNGE	17188	0.10	0.30	0.0	1.0
R10LUNGE	22004	0.09	0.29	0.0	1.0
R11LUNGE	20531	0.10	0.30	0.0	1.0
R12LUNGE	18721	0.11	0.31	0.0	1.0
S1LUNGE	9900	0.05	0.22	0.0	1.0
S2LUNGE	13083	0.06	0.25	0.0	1.0
S3LUNGE	11909	0.06	0.25	0.0	1.0
S4LUNGE	13970	0.06	0.24	0.0	1.0
S5LUNGE	12722	0.07	0.25	0.0	1.0

S6LUNGE	11626	0.07	0.25	0.0	1.0
S7LUNGE	12961	0.07	0.25	0.0	1.0
S8LUNGE	11720	0.08	0.27	0.0	1.0
S9LUNGE	10633	0.09	0.28	0.0	1.0
S10LUNGE	13503	0.08	0.27	0.0	1.0
S11LUNGE	12478	0.09	0.28	0.0	1.0
S12LUNGE	11017	0.09	0.29	0.0	1.0
R1LUNGF	12652	0.29	1.19	0.0	6.0
R2LUNGF	19642	0.28	1.21	0.0	6.0
R3LUNGF	17991	0.27	1.13	0.0	6.0
R4LUNGF	21384	0.22	1.02	0.0	6.0
R5LUNGF	19579	0.19	0.95	0.0	8.0
R6LUNGF	18165	0.20	1.05	0.0	10.0
R7LUNGF	20129	0.17	0.99	0.0	10.0
R8LUNGF	18469	0.16	0.95	0.0	10.0
R9LUNGF	17217	0.13	0.88	0.0	10.0
R10LUNGF	22034	0.09	0.77	0.0	10.0
R11LUNGF	20554	0.07	0.63	0.0	10.0
R12LUNGF	18747	0.04	0.51	0.0	10.0
S1LUNGF	9900	0.27	1.15	0.0	6.0
S2LUNGF	13088	0.28	1.20	0.0	6.0
S3LUNGF	11915	0.27	1.13	0.0	6.0
S4LUNGF	13978	0.21	1.01	0.0	6.0
S5LUNGF	12730	0.18	0.94	0.0	8.0
S6LUNGF	11639	0.19	1.01	0.0	10.0
S7LUNGF	12972	0.15	0.90	0.0	10.0
S8LUNGF	11735	0.14	0.90	0.0	10.0
S9LUNGF	10646	0.11	0.82	0.0	10.0
S10LUNGF	13513	0.07	0.67	0.0	10.0
S11LUNGF	12488	0.05	0.58	0.0	10.0
S12LUNGF	11027	0.04	0.51	0.0	10.0
R1HEARTE	12652	0.11	0.31	0.0	1.0
R2HEARTE	19633	0.18	0.39	0.0	1.0
R3HEARTE	17983	0.20	0.40	0.0	1.0
R4HEARTE	21368	0.20	0.40	0.0	1.0
R5HEARTE	19566	0.21	0.41	0.0	1.0
R6HEARTE	18146	0.23	0.42	0.0	1.0
R7HEARTE	20100	0.22	0.42	0.0	1.0
R8HEARTE	18434	0.24	0.43	0.0	1.0
R9HEARTE	17186	0.26	0.44	0.0	1.0
R10HEARTE	22002	0.23	0.42	0.0	1.0
R11HEARTE	20523	0.24	0.43	0.0	1.0
R12HEARTE	18702	0.26	0.44	0.0	1.0
S1HEARTE	9900	0.10	0.31	0.0	1.0
S2HEARTE	13085	0.17	0.37	0.0	1.0
S3HEARTE	11913	0.18	0.39	0.0	1.0
S4HEARTE	13971	0.18	0.39	0.0	1.0
S5HEARTE	12722	0.20	0.40	0.0	1.0
S6HEARTE	11627	0.21	0.41	0.0	1.0
S7HEARTE	12957	0.20	0.40	0.0	1.0
S8HEARTE	11721	0.22	0.42	0.0	1.0
S9HEARTE	10632	0.24	0.43	0.0	1.0
S10HEARTE	13499	0.21	0.41	0.0	1.0
S11HEARTE	12472	0.23	0.42	0.0	1.0
S12HEARTE	11006	0.24	0.43	0.0	1.0

R1HEARTF	12652	0.29	1.18	0.0	6.0
R2HEARTF	19642	0.32	1.26	0.0	6.0
R3HEARTF	17991	0.31	1.20	0.0	6.0
R4HEARTF	21384	0.26	1.11	0.0	6.0
R5HEARTF	19579	0.25	1.09	0.0	8.0
R6HEARTF	18165	0.29	1.30	0.0	10.0
R7HEARTF	20129	0.26	1.24	0.0	10.0
R8HEARTF	18469	0.24	1.19	0.0	10.0
R9HEARTF	17217	0.20	1.11	0.0	10.0
R10HEARTF	22034	0.14	0.97	0.0	10.0
R11HEARTF	20554	0.10	0.82	0.0	10.0
R12HEARTF	18747	0.05	0.59	0.0	10.0
S1HEARTF	9900	0.29	1.17	0.0	6.0
S2HEARTF	13088	0.32	1.26	0.0	6.0
S3HEARTF	11915	0.31	1.20	0.0	6.0
S4HEARTF	13978	0.26	1.10	0.0	6.0
S5HEARTF	12730	0.24	1.08	0.0	8.0
S6HEARTF	11639	0.27	1.23	0.0	10.0
S7HEARTF	12972	0.23	1.16	0.0	10.0
S8HEARTF	11735	0.20	1.07	0.0	10.0
S9HEARTF	10646	0.17	1.03	0.0	10.0
S10HEARTF	13513	0.12	0.86	0.0	10.0
S11HEARTF	12488	0.08	0.74	0.0	10.0
S12HEARTF	11027	0.04	0.52	0.0	10.0
R1STROKE	12652	0.03	0.16	0.0	1.0
R2STROKE	19638	0.06	0.23	0.0	1.0
R3STROKE	17982	0.07	0.25	0.0	1.0
R4STROKE	21372	0.07	0.26	0.0	1.0
R5STROKE	19568	0.08	0.27	0.0	1.0
R6STROKE	18149	0.09	0.28	0.0	1.0
R7STROKE	20114	0.08	0.27	0.0	1.0
R8STROKE	18445	0.09	0.28	0.0	1.0
R9STROKE	17195	0.10	0.29	0.0	1.0
R10STROKE	22012	0.09	0.28	0.0	1.0
R11STROKE	20532	0.09	0.29	0.0	1.0
R12STROKE	18715	0.10	0.30	0.0	1.0
S1STROKE	9900	0.03	0.16	0.0	1.0
S2STROKE	13086	0.05	0.21	0.0	1.0
S3STROKE	11910	0.06	0.23	0.0	1.0
S4STROKE	13972	0.06	0.23	0.0	1.0
S5STROKE	12724	0.06	0.25	0.0	1.0
S6STROKE	11631	0.07	0.25	0.0	1.0
S7STROKE	12964	0.06	0.24	0.0	1.0
S8STROKE	11723	0.07	0.26	0.0	1.0
S9STROKE	10635	0.08	0.27	0.0	1.0
S10STROKE	13499	0.07	0.25	0.0	1.0
S11STROKE	12476	0.07	0.26	0.0	1.0
S12STROKE	11013	0.08	0.27	0.0	1.0
R1STROKF	12652	0.07	0.56	0.0	6.0
R2STROKF	19642	0.07	0.61	0.0	6.0
R3STROKF	17991	0.07	0.59	0.0	6.0
R4STROKF	21384	0.06	0.52	0.0	6.0
R5STROKF	19579	0.05	0.49	0.0	8.0
R6STROKF	18165	0.08	0.71	0.0	10.0

R7STROKF	20129	0.07	0.67	0.0	10.0
R8STROKF	18469	0.07	0.67	0.0	10.0
R9STROKF	17217	0.06	0.65	0.0	10.0
R10STROKF	22034	0.05	0.61	0.0	10.0
R11STROKF	20554	0.04	0.51	0.0	10.0
R12STROKF	18747	0.02	0.40	0.0	10.0
S1STROKF	9900	0.06	0.52	0.0	6.0
S2STROKF	13088	0.07	0.59	0.0	6.0
S3STROKF	11915	0.07	0.57	0.0	6.0
S4STROKF	13978	0.05	0.50	0.0	6.0
S5STROKF	12730	0.04	0.46	0.0	8.0
S6STROKF	11639	0.05	0.58	0.0	10.0
S7STROKF	12972	0.04	0.50	0.0	10.0
S8STROKF	11735	0.04	0.54	0.0	10.0
S9STROKF	10646	0.04	0.57	0.0	10.0
S10STROKF	13513	0.04	0.51	0.0	10.0
S11STROKF	12488	0.03	0.44	0.0	10.0
S12STROKF	11027	0.01	0.33	0.0	10.0
R1PSYCHE	12652	0.07	0.25	0.0	1.0
R2PSYCHE	19637	0.08	0.27	0.0	1.0
R3PSYCHE	17981	0.09	0.29	0.0	1.0
R4PSYCHE	21371	0.10	0.30	0.0	1.0
R5PSYCHE	19567	0.11	0.32	0.0	1.0
R6PSYCHE	18151	0.13	0.34	0.0	1.0
R7PSYCHE	20095	0.14	0.35	0.0	1.0
R8PSYCHE	18439	0.16	0.37	0.0	1.0
R9PSYCHE	17186	0.17	0.38	0.0	1.0
R10PSYCHE	21993	0.18	0.38	0.0	1.0
R11PSYCHE	20514	0.20	0.40	0.0	1.0
R12PSYCHE	18705	0.21	0.41	0.0	1.0
S1PSYCHE	9900	0.06	0.23	0.0	1.0
S2PSYCHE	13084	0.07	0.25	0.0	1.0
S3PSYCHE	11911	0.08	0.27	0.0	1.0
S4PSYCHE	13970	0.08	0.28	0.0	1.0
S5PSYCHE	12723	0.10	0.29	0.0	1.0
S6PSYCHE	11632	0.11	0.31	0.0	1.0
S7PSYCHE	12951	0.12	0.32	0.0	1.0
S8PSYCHE	11718	0.13	0.34	0.0	1.0
S9PSYCHE	10628	0.15	0.35	0.0	1.0
S10PSYCHE	13495	0.15	0.36	0.0	1.0
S11PSYCHE	12469	0.16	0.37	0.0	1.0
S12PSYCHE	11008	0.18	0.38	0.0	1.0
R1PSYCHF	12652	0.45	1.45	0.0	6.0
R2PSYCHF	19642	0.45	1.49	0.0	6.0
R3PSYCHF	17991	0.44	1.43	0.0	6.0
R4PSYCHF	21384	0.37	1.33	0.0	6.0
R5PSYCHF	19579	0.33	1.27	0.0	8.0
R6PSYCHF	18165	0.35	1.41	0.0	10.0
R7PSYCHF	20129	0.31	1.33	0.0	10.0
R8PSYCHF	18469	0.27	1.28	0.0	10.0
R9PSYCHF	17217	0.24	1.23	0.0	10.0
R10PSYCHF	22034	0.17	1.05	0.0	10.0
R11PSYCHF	20554	0.14	0.97	0.0	10.0
R12PSYCHF	18747	0.07	0.73	0.0	10.0

S1PSYCHF	9900	0.43	1.41	0.0	6.0
S2PSYCHF	13088	0.43	1.47	0.0	6.0
S3PSYCHF	11915	0.42	1.40	0.0	6.0
S4PSYCHF	13978	0.34	1.29	0.0	6.0
S5PSYCHF	12730	0.30	1.22	0.0	8.0
S6PSYCHF	11639	0.31	1.32	0.0	10.0
S7PSYCHF	12972	0.25	1.20	0.0	10.0
S8PSYCHF	11735	0.22	1.14	0.0	10.0
S9PSYCHF	10646	0.19	1.08	0.0	10.0
S10PSYCHF	13513	0.13	0.93	0.0	10.0
S11PSYCHF	12488	0.11	0.87	0.0	10.0
S12PSYCHF	11027	0.05	0.61	0.0	10.0
R1ARTHRE	12652	0.33	0.47	0.0	1.0
R2ARTHRE	19633	0.33	0.47	0.0	1.0
R3ARTHRE	17982	0.46	0.50	0.0	1.0
R4ARTHRE	21366	0.48	0.50	0.0	1.0
R5ARTHRE	19563	0.53	0.50	0.0	1.0
R6ARTHRE	18136	0.56	0.50	0.0	1.0
R7ARTHRE	20098	0.54	0.50	0.0	1.0
R8ARTHRE	18451	0.58	0.49	0.0	1.0
R9ARTHRE	17194	0.61	0.49	0.0	1.0
R10ARTHRE	22000	0.54	0.50	0.0	1.0
R11ARTHRE	20526	0.57	0.49	0.0	1.0
R12ARTHRE	18714	0.60	0.49	0.0	1.0
S1ARTHRE	9900	0.31	0.46	0.0	1.0
S2ARTHRE	13084	0.32	0.46	0.0	1.0
S3ARTHRE	11910	0.43	0.49	0.0	1.0
S4ARTHRE	13968	0.44	0.50	0.0	1.0
S5ARTHRE	12719	0.49	0.50	0.0	1.0
S6ARTHRE	11619	0.53	0.50	0.0	1.0
S7ARTHRE	12952	0.51	0.50	0.0	1.0
S8ARTHRE	11724	0.54	0.50	0.0	1.0
S9ARTHRE	10633	0.57	0.50	0.0	1.0
S10ARTHRE	13494	0.51	0.50	0.0	1.0
S11ARTHRE	12473	0.54	0.50	0.0	1.0
S12ARTHRE	11012	0.56	0.50	0.0	1.0
R1ARTHRF	12652	0.55	1.57	0.0	6.0
R2ARTHRF	19642	0.48	1.50	0.0	6.0
R3ARTHRF	17991	0.51	1.52	0.0	6.0
R4ARTHRF	21384	0.45	1.45	0.0	6.0
R5ARTHRF	19579	0.42	1.42	0.0	8.0
R6ARTHRF	18165	0.49	1.67	0.0	10.0
R7ARTHRF	20129	0.41	1.54	0.0	10.0
R8ARTHRF	18469	0.41	1.59	0.0	10.0
R9ARTHRF	17217	0.34	1.46	0.0	10.0
R10ARTHRF	22034	0.23	1.24	0.0	10.0
R11ARTHRF	20554	0.18	1.12	0.0	10.0
R12ARTHRF	18747	0.10	0.85	0.0	10.0
S1ARTHRF	9900	0.55	1.57	0.0	6.0
S2ARTHRF	13088	0.53	1.57	0.0	6.0
S3ARTHRF	11915	0.54	1.55	0.0	6.0
S4ARTHRF	13978	0.47	1.48	0.0	6.0
S5ARTHRF	12730	0.44	1.44	0.0	8.0
S6ARTHRF	11639	0.49	1.64	0.0	10.0
S7ARTHRF	12972	0.41	1.52	0.0	10.0

S8ARTHRF	11735	0.41	1.60	0.0	10.0
S9ARTHRF	10646	0.33	1.42	0.0	10.0
S10ARTHRF	13513	0.23	1.23	0.0	10.0
S11ARTHRF	12488	0.17	1.10	0.0	10.0
S12ARTHRF	11027	0.09	0.84	0.0	10.0
R1CONDE	12652	1.06	1.13	0.0	7.0
R2CONDE	19642	1.31	1.22	0.0	7.0
R3CONDE	17991	1.53	1.31	0.0	8.0
R4CONDE	21383	1.59	1.34	0.0	8.0
R5CONDE	19578	1.73	1.37	0.0	8.0
R6CONDE	18163	1.89	1.41	0.0	8.0
R7CONDE	20128	1.87	1.44	0.0	8.0
R8CONDE	18468	2.04	1.46	0.0	8.0
R9CONDE	17214	2.18	1.49	0.0	8.0
R10CONDE	22031	2.05	1.52	0.0	8.0
R11CONDE	20553	2.20	1.55	0.0	8.0
R12CONDE	18746	2.34	1.56	0.0	8.0
S1CONDE	9900	1.00	1.09	0.0	7.0
S2CONDE	13088	1.22	1.17	0.0	7.0
S3CONDE	11915	1.41	1.26	0.0	7.0
S4CONDE	13978	1.45	1.28	0.0	8.0
S5CONDE	12729	1.59	1.32	0.0	8.0
S6CONDE	11637	1.75	1.35	0.0	8.0
S7CONDE	12972	1.72	1.38	0.0	8.0
S8CONDE	11734	1.88	1.41	0.0	8.0
S9CONDE	10643	2.02	1.43	0.0	8.0
S10CONDE	13510	1.90	1.47	0.0	8.0
S11CONDE	12487	2.04	1.50	0.0	8.0
S12CONDE	11026	2.15	1.52	0.0	8.0
R1CONDEF	12652	0.22	0.51	0.0	5.0
R2CONDEF	19642	0.26	0.56	0.0	6.0
R3CONDEF	17991	0.34	0.63	0.0	6.0
R4CONDEF	21384	0.26	0.55	0.0	6.0
R5CONDEF	19579	0.25	0.54	0.0	6.0
R6CONDEF	18165	0.23	0.52	0.0	5.0
R7CONDEF	20129	0.22	0.51	0.0	5.0
R8CONDEF	18469	0.21	0.49	0.0	5.0
R9CONDEF	17217	0.19	0.47	0.0	6.0
R10CONDEF	22034	0.14	0.41	0.0	6.0
R11CONDEF	20554	0.12	0.36	0.0	5.0
R12CONDEF	18747	0.06	0.25	0.0	3.0
S1CONDEF	9900	0.21	0.49	0.0	5.0
S2CONDEF	13088	0.26	0.55	0.0	5.0
S3CONDEF	11915	0.33	0.61	0.0	5.0
S4CONDEF	13978	0.25	0.53	0.0	5.0
S5CONDEF	12730	0.23	0.51	0.0	5.0
S6CONDEF	11639	0.22	0.49	0.0	4.0
S7CONDEF	12972	0.20	0.47	0.0	4.0
S8CONDEF	11735	0.19	0.46	0.0	4.0
S9CONDEF	10646	0.17	0.44	0.0	4.0
S10CONDEF	13513	0.12	0.38	0.0	4.0
S11CONDEF	12488	0.10	0.34	0.0	4.0
S12CONDEF	11027	0.05	0.23	0.0	3.0
R1CONDEM	12652	0.00	0.00	0.0	0.0

R2CONDEM	19642	0.00	0.07	0.0	3.0
R3CONDEM	17991	0.01	0.12	0.0	7.0
R4CONDEM	21384	0.01	0.13	0.0	8.0
R5CONDEM	19579	0.01	0.14	0.0	8.0
R6CONDEM	18165	0.01	0.17	0.0	8.0
R7CONDEM	20129	0.01	0.17	0.0	8.0
R8CONDEM	18469	0.01	0.18	0.0	8.0
R9CONDEM	17217	0.01	0.19	0.0	8.0
R10CONDEM	22034	0.01	0.18	0.0	8.0
R11CONDEM	20554	0.01	0.17	0.0	8.0
R12CONDEM	18747	0.02	0.19	0.0	8.0
S1CONDEM	9900	0.00	0.00	0.0	0.0
S2CONDEM	13088	0.00	0.05	0.0	2.0
S3CONDEM	11915	0.00	0.10	0.0	7.0
S4CONDEM	13978	0.01	0.12	0.0	7.0
S5CONDEM	12730	0.01	0.13	0.0	8.0
S6CONDEM	11639	0.01	0.17	0.0	8.0
S7CONDEM	12972	0.01	0.14	0.0	6.0
S8CONDEM	11735	0.01	0.16	0.0	8.0
S9CONDEM	10646	0.01	0.17	0.0	8.0
S10CONDEM	13513	0.01	0.15	0.0	8.0
S11CONDEM	12488	0.01	0.15	0.0	8.0
S12CONDEM	11027	0.01	0.15	0.0	8.0

### Categorical Variable Codes

Value	R1HIBPE	R2HIBPE	R3HIBPE	R4HIBPE	R5HIBPE	R6HIBPE	R7HIBPE
<hr/>							
.D=DK/NA		11	6	11	6	9	16
.M=Oth missing			10	11	12	12	11
.R=RF		1			2	1	2
0.No	8450	11841	10457	12174	10515	8980	9879
1.Yes	4202	7789	7518	9188	9044	9163	10221
<hr/>							
Value	R8HIBPE	R9HIBPE	R10HIBPE	R11HIBPE	R12HIBPE		
<hr/>							
.D=DK/NA	19	15	25	24	16		
.M=Oth missing	9	15	16	19	28		
.R=RF		4	2	2	2		
0.No	8243	7068	9367	8081	6843		
1.Yes	10198	10115	12624	12428	11858		

Value	S1HIBPE	S2HIBPE	S3HIBPE	S4HIBPE	S5HIBPE	S6HIBPE	S7HIBPE
.D=DK/NA		4	3	6	2	3	4
.M=Oth missing			4	4	5	7	5
.R=RF					1	1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	6773	8223	7252	8346	7181	6067	6772
1.Yes	3127	4861	4656	5622	5541	5561	6190

Value	S8HIBPE	S9HIBPE	S10HIBPE	S11HIBPE	S12HIBPE
.D=DK/NA	4	6	9	13	7
.M=Oth missing	4	6	9	11	17
.R=RF		3	1	2	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5636	4723	6213	5330	4466
1.Yes	6091	5908	7281	7132	6536

Value	R1HIBPF	R2HIBPF	R3HIBPF	R4HIBPF	R5HIBPF	R6HIBPF	R7HIBPF
0.No dispute,no change	11396	17844	16175	19674	18155	16871	18887
3.Disp,set to N			508	325	291	213	231
4.Disp aft,already N	590	636	510	611	488	354	296
5.Disp aft,->N					1		1
6.Disp aft,Y->N	666	1162	798	774	637	593	603
8.Disp prev wv,but now Y					7	5	4
10.NewR=not ever,but PrvR=Y						129	107

Value	R8HIBPF	R9HIBPF	R10HIBPF	R11HIBPF	R12HIBPF
0.No dispute,no change	17446	16418	21278	20001	18475
3.Disp,set to N	220	205	194	264	193
4.Disp aft,already N	180	86	45	2	
5.Disp aft,->N	1				
6.Disp aft,Y->N	508	423	409	196	
8.Disp prev wv,but now Y	5	9	11	10	13
10.NewR=not ever,but PrvR=Y	109	76	97	81	66

Value	S1HIBPF	S2HIBPF	S3HIBPF	S4HIBPF	S5HIBPF	S6HIBPF	S7HIBPF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	8934	11887	10755	12888	11814	10830	12224
3.Disp,set to N			322	181	168	136	136
4.Disp aft,already N	453	445	356	421	340	242	204
5.Disp aft,->N					1		
6.Disp aft,Y->N	513	756	482	488	402	367	355
8.Disp prev wv,but now Y					5	1	3
10.NewR=not ever,but PrvR=Y						63	50

Value	S8HIBPF	S9HIBPF	S10HIBPF	S11HIBPF	S12HIBPF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11113	10199	13070	12158	10879
3.Disp,set to N	121	111	105	155	105
4.Disp aft,already N	123	54	31	1	
6.Disp aft,Y->N	310	240	246	117	
8.Disp prev wv,but now Y	3	6	5	4	10
10.NewR=not ever,but PrvR=Y	65	36	56	53	33



Value	R1DIABE	R2DIABE	R3DIABE	R4DIABE	R5DIABE	R6DIABE	R7DIABE
.D=DK/NA		10	8	10	4	4	13
.M=Oth missing			10	13	15	16	13
.R=RF			2		4	2	3
0.No	11451	17369	15692	18539	16730	15115	16649
1.Yes	1201	2263	2279	2822	2826	3028	3451

Value	R8DIABE	R9DIABE	R10DIABE	R11DIABE	R12DIABE
.D=DK/NA	15	11	17	13	12
.M=Oth missing	17	17	19	26	25
.R=RF	2	3	3		1
0.No	14875	13563	17178	15586	13803
1.Yes	3560	3623	4817	4929	4906

Value	S1DIABE	S2DIABE	S3DIABE	S4DIABE	S5DIABE	S6DIABE	S7DIABE
.D=DK/NA		3	4	3	2	2	5
.M=Oth missing			4	5	7	9	8
.R=RF					2	1	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9019	11683	10493	12238	10961	9755	10825
1.Yes	881	1402	1414	1732	1758	1872	2133

Value	S8DIABE	S9DIABE	S10DIABE	S11DIABE	S12DIABE
.D=DK/NA	6	4	3	6	1
.M=Oth missing	8	8	8	11	11
.R=RF	1	1	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9573	8472	10620	9587	8222
1.Yes	2147	2161	2881	2884	2792

Value	R1DIABF	R2DIABF	R3DIABF	R4DIABF	R5DIABF	R6DIABF	R7DIABF
0.No dispute,no change	12066	18899	17253	20613	18891	17540	19495
3.Disp,set to N			165	105	108	68	96
4.Disp aft,already N	397	427	369	441	391	324	305
5.Disp aft,.->N				1	1	1	1
6.Disp aft,Y->N	189	316	204	224	185	199	204
8.Disp prev wv,but now Y					3	3	5
10.NewR=not ever,but PrvR=Y						30	23

Value	R8DIABF	R9DIABF	R10DIABF	R11DIABF	R12DIABF
0.No dispute,no change	17920	16774	21573	20201	18589
3.Disp,set to N	104	102	107	192	135
4.Disp aft,already N	209	125	56		
5.Disp aft,.->N		1			
6.Disp aft,Y->N	205	193	268	132	
8.Disp prev wv,but now Y	3	3	4	4	1
10.NewR=not ever,but PrvR=Y	28	19	26	25	22

Value	S1DIABF	S2DIABF	S3DIABF	S4DIABF	S5DIABF	S6DIABF	S7DIABF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9450	12566	11410	13467	12282	11251	12573
3.Disp,set to N			112	69	64	41	61
4.Disp aft,already N	308	304	260	304	269	204	186
6.Disp aft,Y->N	142	218	133	138	113	124	134
8.Disp prev wv,but now Y					2	3	4
10.NewR=not ever,but PrvR=Y						16	14

Value	S8DIABF	S9DIABF	S10DIABF	S11DIABF	S12DIABF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11401	10397	13247	12293	10949
3.Disp,set to N	66	56	56	106	68
4.Disp aft,already N	119	70	32		
5.Disp aft,.->N		1			
6.Disp aft,Y->N	129	110	159	73	
8.Disp prev wv,but now Y	1	2	3	3	1
10.NewR=not ever,but PrvR=Y	19	10	16	13	9

Value	R1CANCRE	R2CANCRE	R3CANCRE	R4CANCRE	R5CANCRE	R6CANCRE	R7CANCRE
.D=DK/NA		8	7	10	8	5	13
.M=Oth missing			9	15	20	25	24
.R=RF		3	3	1	5	2	3
.T=Other			1				
0.No	12048	17989	16253	19194	17345	15796	17548
1.Yes	604	1642	1718	2164	2201	2337	2541

Value	R8CANCRE	R9CANCRE	R10CANCRE	R11CANCRE	R12CANCRE
.D=DK/NA	12	8	17	11	14
.M=Oth missing	31	33	34	39	37
.R=RF	2	3	2	2	1
0.No	15818	14513	18957	17431	15702
1.Yes	2606	2660	3024	3071	2993

Value	S1CANCRE	S2CANCRE	S3CANCRE	S4CANCRE	S5CANCRE	S6CANCRE	S7CANCRE
.D=DK/NA		3	6	3	2	4	7
.M=Oth missing			5	9	11	12	13
.R=RF		3	1	1	2	2	1
.T=Other			1				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9438	12076	10843	12623	11365	10197	11399
1.Yes	462	1006	1059	1342	1350	1424	1552

Value	S8CANCRE	S9CANCRE	S10CANCRE	S11CANCRE	S12CANCRE
.D=DK/NA	6	5	8	7	6
.M=Oth missing	15	15	13	20	16
.R=RF	1	2	2		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10157	9047	11679	10684	9326
1.Yes	1556	1577	1811	1777	1678

Value	R1CANCRF	R2CANCRF	R3CANCRF	R4CANCRF	R5CANCRF	R6CANCRF	R7CANCRF
0.No dispute,no change	12395	19224	17567	20972	19226	17837	19807
3.Disp,set to N			88	62	68	46	62
4.Disp aft,already N	158	201	164	171	130	93	79
5.Disp aft,.->N		1	1		1	1	1
6.Disp aft,Y->N	99	216	171	179	153	150	146
8.Disp prev wv,but now Y					1	3	1
10.NewR=not ever,but PrvR=Y						35	33

Value	R8CANCRF	R9CANCRF	R10CANCRF	R11CANCRF	R12CANCRF
0.No dispute,no change	18196	17002	21821	20391	18658
3.Disp,set to N	52	58	47	65	57
4.Disp aft,already N	50	32	20		
6.Disp aft,Y->N	124	88	101	57	
8.Disp prev wv,but now Y	2			3	1
10.NewR=not ever,but PrvR=Y	45	37	45	38	31

Value	S1CANCRF	S2CANCRF	S3CANCRF	S4CANCRF	S5CANCRF	S6CANCRF	S7CANCRF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9697	12808	11639	13731	12510	11445	12797
3.Disp,set to N			57	24	41	26	34
4.Disp aft,already N	130	147	118	107	87	60	51
5.Disp aft,.->N		1	1		1	1	1
6.Disp aft,Y->N	73	132	100	116	90	85	73
8.Disp prev wv,but now Y					1	2	1
10.NewR=not ever,but PrvR=Y						20	15

Value	S8CANCRF	S9CANCRF	S10CANCRF	S11CANCRF	S12CANCRF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11587	10528	13395	12396	10981
3.Disp,set to N	20	36	20	34	33
4.Disp aft,already N	29	18	14		
6.Disp aft,Y->N	75	44	62	34	
8.Disp prev wv,but now Y				2	
10.NewR=not ever,but PrvR=Y	24	20	22	22	13

Value	R1LUNGE	R2LUNGE	R3LUNGE	R4LUNGE	R5LUNGE	R6LUNGE	R7LUNGE
.D=DK/NA		7	1	5	6	8	7
.M=Oth missing			6	7	5	10	14
.R=RF		1	1		4	2	2
0.No	11996	18244	16691	19877	18084	16669	18465
1.Yes	656	1390	1292	1495	1480	1476	1641

Value	R8LUNGE	R9LUNGE	R10LUNGE	R11LUNGE	R12LUNGE
.D=DK/NA	16	6	12	7	12
.M=Oth missing	15	20	16	15	13
.R=RF	2	3	2	1	1
0.No	16758	15460	19942	18412	16637
1.Yes	1678	1728	2062	2119	2084

Value	S1LUNGE	S2LUNGE	S3LUNGE	S4LUNGE	S5LUNGE	S6LUNGE	S7LUNGE
.D=DK/NA		4	1	2	2	4	2
.M=Oth missing			5	6	4	7	9
.R=RF		1			2	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9415	12234	11138	13125	11884	10833	12063
1.Yes	485	849	771	845	838	793	898

Value	S8LUNGE	S9LUNGE	S10LUNGE	S11LUNGE	S12LUNGE
.D=DK/NA	7	4	3	3	3
.M=Oth missing	7	7	5	7	6
.R=RF	1	2	2		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10796	9713	12424	11382	9992
1.Yes	924	920	1079	1096	1025

Value	R1LUNGF	R2LUNGF	R3LUNGF	R4LUNGF	R5LUNGF	R6LUNGF	R7LUNGF
0.No dispute,no change	11921	18591	16959	20400	18782	17484	19454
3.Disp,set to N			262	206	189	89	135
4.Disp aft,already N	369	381	291	331	274	207	158
5.Disp aft,.->N		1	2	2	2	2	1
6.Disp aft,Y->N	362	669	477	445	322	336	333
8.Disp prev wv,but now Y					10	1	4
10.NewR=not ever,but PrvR=Y						46	44

Value	R8LUNGF	R9LUNGF	R10LUNGF	R11LUNGF	R12LUNGF
0.No dispute,no change	17925	16798	21661	20277	18601
3.Disp,set to N	123	108	91	137	105
4.Disp aft,already N	104	48	26	4	
5.Disp aft,.->N	2	1			
6.Disp aft,Y->N	267	224	211	100	
8.Disp prev wv,but now Y	2	3	6	4	3
10.NewR=not ever,but PrvR=Y	46	35	39	32	38

Value	S1LUNGF	S2LUNGF	S3LUNGF	S4LUNGF	S5LUNGF	S6LUNGF	S7LUNGF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9356	12384	11236	13340	12227	11225	12586
3.Disp,set to N			155	127	101	47	85
4.Disp aft,already N	286	275	209	231	185	130	93
5.Disp aft,.->N		1	1	1	2	2	1
6.Disp aft,Y->N	258	428	314	279	211	213	189
8.Disp prev wv,but now Y					4	1	3
10.NewR=not ever,but PrvR=Y						21	15

Value	S8LUNGF	S9LUNGF	S10LUNGF	S11LUNGF	S12LUNGF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11434	10424	13332	12355	10952
3.Disp,set to N	66	54	43	59	50
4.Disp aft,already N	58	22	12	1	
5.Disp aft,.->N	1	1			
6.Disp aft,Y->N	145	125	109	56	
8.Disp prev wv,but now Y	2	1	1	2	2
10.NewR=not ever,but PrvR=Y	29	19	16	15	23

Value	R1HEARTE	R2HEARTE	R3HEARTE	R4HEARTE	R5HEARTE	R6HEARTE	R7HEARTE
.D=DK/NA		9	1	10	2	9	13
.M=Oth missing			6	6	8	8	15
.R=RF			1		3	2	1
0.No	11307	16008	14358	17060	15360	13924	15611
1.Yes	1345	3625	3625	4308	4206	4222	4489

Value	R8HEARTE	R9HEARTE	R10HEARTE	R11HEARTE	R12HEARTE
.D=DK/NA	12	7	10	13	21
.M=Oth missing	21	21	20	16	22
.R=RF	2	3	2	2	2
0.No	13959	12796	17030	15506	13819
1.Yes	4475	4390	4972	5017	4883

Value	S1HEARTE	S2HEARTE	S3HEARTE	S4HEARTE	S5HEARTE	S6HEARTE	S7HEARTE
.D=DK/NA		3		4	1	4	6
.M=Oth missing			2	3	5	6	9
.R=RF					2	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	8864	10918	9729	11388	10231	9148	10318
1.Yes	1036	2167	2184	2583	2491	2479	2639

Value	S8HEARTE	S9HEARTE	S10HEARTE	S11HEARTE	S12HEARTE
.D=DK/NA	3	4	4	6	9
.M=Oth missing	10	8	9	9	11
.R=RF	1	2	1	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9101	8090	10630	9623	8340
1.Yes	2620	2542	2869	2849	2666

Value	R1HEARTF	R2HEARTF	R3HEARTF	R4HEARTF	R5HEARTF	R6HEARTF	R7HEARTF
0.No dispute,no change	11885	18435	16790	20222	18567	17198	19185
3.Disp,set to N			266	179	160	118	142
4.Disp aft,already N	446	524	429	456	381	293	229
5.Disp aft,.->N			1	1	2	1	
6.Disp aft,Y->N	321	683	505	526	463	451	465
8.Disp prev wv,but now Y					6	3	3
10.NewR=not ever,but PrvR=Y						101	105

Value	R8HEARTF	R9HEARTF	R10HEARTF	R11HEARTF	R12HEARTF
0.No dispute,no change	17666	16582	21483	20167	18548
3.Disp,set to N	175	183	144	171	145
4.Disp aft,already N	146	77	36	1	
6.Disp aft,Y->N	390	288	277	143	
8.Disp prev wv,but now Y	2	4	2		4
10.NewR=not ever,but PrvR=Y	90	83	92	72	50

Value	S1HEARTF	S2HEARTF	S3HEARTF	S4HEARTF	S5HEARTF	S6HEARTF	S7HEARTF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9310	12263	11120	13226	12079	11063	12427
3.Disp,set to N			154	98	96	58	84
4.Disp aft,already N	340	382	312	325	270	195	139
5.Disp aft,.->N					1		
6.Disp aft,Y->N	250	443	329	329	281	271	268
8.Disp prev wv,but now Y					3	2	1
10.NewR=not ever,but PrvR=Y						50	53

Value	S8HEARTF	S9HEARTF	S10HEARTF	S11HEARTF	S12HEARTF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11303	10306	13232	12295	10932
3.Disp,set to N	95	89	77	79	71
4.Disp aft,already N	92	48	20	1	
6.Disp aft,Y->N	203	159	142	79	
8.Disp prev wv,but now Y	1	3	1		2
10.NewR=not ever,but PrvR=Y	41	41	41	34	22

Value	R1STROKE	R2STROKE	R3STROKE	R4STROKE	R5STROKE	R6STROKE	R7STROKE
.D=DK/NA		4	3	6	1	7	5
.M=Oth missing			4	6	5	7	9
.R=RF			2		5	2	1
0.No	12314	18503	16752	19839	18007	16583	18471
1.Yes	338	1135	1230	1533	1561	1566	1643

Value	R8STROKE	R9STROKE	R10STROKE	R11STROKE	R12STROKE
.D=DK/NA	11	6	6	9	12
.M=Oth missing	11	13	13	12	17
.R=RF	2	3	3	1	3
0.No	16807	15547	20136	18626	16884
1.Yes	1638	1648	1876	1906	1831

Value	S1STROKE	S2STROKE	S3STROKE	S4STROKE	S5STROKE	S6STROKE	S7STROKE
.D=DK/NA		2	2	2	1	1	2
.M=Oth missing			3	4	3	5	6
.R=RF					2	2	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9642	12457	11239	13173	11904	10841	12135
1.Yes	258	629	671	799	820	790	829

Value	S8STROKE	S9STROKE	S10STROKE	S11STROKE	S12STROKE
.D=DK/NA	5	2	3	4	3
.M=Oth missing	6	7	9	8	9
.R=RF	1	2	2		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10873	9808	12574	11565	10147
1.Yes	850	827	925	911	866

Value	R1STROKF	R2STROKF	R3STROKF	R4STROKF	R5STROKF	R6STROKF	R7STROKF
0.No dispute,no change	12470	19341	17693	21114	19361	17930	19896
3.Disp,set to N			68	54	38	16	25
4.Disp aft,already N	125	173	128	125	114	96	78
5.Disp aft,.->N						1	
6.Disp aft,Y->N	57	128	102	91	62	72	84
8.Disp prev wv,but now Y					4	2	2
10.NewR=not ever,but PrvR=Y						48	44

Value	R8STROKF	R9STROKF	R10STROKF	R11STROKF	R12STROKF
0.No dispute,no change	18262	17050	21870	20435	18680
3.Disp,set to N	39	29	30	42	39
4.Disp aft,already N	47	32	13	1	
6.Disp aft,Y->N	75	64	68	40	
8.Disp prev wv,but now Y	3	1	2	2	4
10.NewR=not ever,but PrvR=Y	43	41	51	34	24

Value	S1STROKF	S2STROKF	S3STROKF	S4STROKF	S5STROKF	S6STROKF	S7STROKF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9775	12896	11736	13814	12606	11524	12868
3.Disp,set to N			35	31	20	12	9
4.Disp aft,already N	87	112	77	76	64	50	43
5.Disp aft,->N						1	
6.Disp aft,Y->N	38	80	67	57	38	34	42
8.Disp prev wv,but now Y					2	2	
10.NewR=not ever,but PrvR=Y						16	10

Value	S8STROKF	S9STROKF	S10STROKF	S11STROKF	S12STROKF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11641	10572	13439	12428	10997
3.Disp,set to N	17	8	9	23	19
4.Disp aft,already N	25	14	7		
6.Disp aft,Y->N	37	32	37	22	
8.Disp prev wv,but now Y			1	1	2
10.NewR=not ever,but PrvR=Y	15	20	20	14	9

Value	R1PSYCHE	R2PSYCHE	R3PSYCHE	R4PSYCHE	R5PSYCHE	R6PSYCHE	R7PSYCHE
.D=DK/NA		2	4	6	4	4	13
.M=Oth missing			5	6	6	7	10
.R=RF		3	1	1	2	3	11
0.No	11809	18123	16296	19206	17367	15803	17280
1.Yes	843	1514	1685	2165	2200	2348	2815

Value	R8PSYCHE	R9PSYCHE	R10PSYCHE	R11PSYCHE	R12PSYCHE
.D=DK/NA	11	7	18	12	12
.M=Oth missing	16	21	18	25	23
.R=RF	3	3	5	3	7
0.No	15517	14241	18089	16510	14784
1.Yes	2922	2945	3904	4004	3921

Value	S1PSYCHE	S2PSYCHE	S3PSYCHE	S4PSYCHE	S5PSYCHE	S6PSYCHE	S7PSYCHE
.D=DK/NA		2		4	2	1	8
.M=Oth missing			4	3	4	4	5
.R=RF		2		1	1	2	8
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9352	12190	10945	12786	11507	10365	11450
1.Yes	548	894	966	1184	1216	1267	1501

Value	S8PSYCHE	S9PSYCHE	S10PSYCHE	S11PSYCHE	S12PSYCHE
.D=DK/NA	7	4	6	5	4
.M=Oth missing	8	12	11	14	13
.R=RF	2	2	1		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10145	9080	11471	10417	9068
1.Yes	1573	1548	2024	2052	1940



Value	R1PSYCHF	R2PSYCHF	R3PSYCHF	R4PSYCHF	R5PSYCHF	R6PSYCHF	R7PSYCHF
0.No dispute,no change	11482	17971	16305	19771	18239	16991	18978
3.Disp,set to N			422	287	287	171	248
4.Disp aft,already N	644	625	462	477	351	269	220
5.Disp aft,.->N		1	2				1
6.Disp aft,Y->N	526	1045	800	849	695	632	564
8.Disp prev wv,but now Y					7	7	11
10.NewR=not ever,but PrvR=Y						95	107

Value	R8PSYCHF	R9PSYCHF	R10PSYCHF	R11PSYCHF	R12PSYCHF
0.No dispute,no change	17559	16481	21409	20074	18496
3.Disp,set to N	194	187	157	190	165
4.Disp aft,already N	126	68	23		
6.Disp aft,Y->N	486	372	330	164	
8.Disp prev wv,but now Y	3	5	13	10	3
10.NewR=not ever,but PrvR=Y	101	104	102	116	83

Value	S1PSYCHF	S2PSYCHF	S3PSYCHF	S4PSYCHF	S5PSYCHF	S6PSYCHF	S7PSYCHF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	9026	11995	10840	12987	11927	10968	12348
3.Disp,set to N			257	168	159	98	128
4.Disp aft,already N	504	432	320	315	233	172	131
5.Disp aft,.->N		1	1				1
6.Disp aft,Y->N	370	660	497	508	408	348	312
8.Disp prev wv,but now Y					3	5	6
10.NewR=not ever,but PrvR=Y						48	46

Value	S8PSYCHF	S9PSYCHF	S10PSYCHF	S11PSYCHF	S12PSYCHF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	11256	10282	13213	12258	10915
3.Disp,set to N	110	99	71	85	76
4.Disp aft,already N	72	37	9		
6.Disp aft,Y->N	249	177	167	86	
8.Disp prev wv,but now Y	1	3	4	4	3
10.NewR=not ever,but PrvR=Y	47	48	49	55	33

Value	R1ARTHRE	R2ARTHRE	R3ARTHRE	R4ARTHRE	R5ARTHRE	R6ARTHRE	R7ARTHRE
.D=DK/NA		9	2	13	7	14	15
.M=Oth missing			6	4	5	13	14
.R=RF			1	1	4	2	2
0.No	8478	13217	9734	11060	9283	7917	9175
1.Yes	4174	6416	8248	10306	10280	10219	10923

Value	R8ARTHRE	R9ARTHRE	R10ARTHRE	R11ARTHRE	R12ARTHRE
.D=DK/NA	4	7	18	11	12
.M=Oth missing	13	12	13	16	17
.R=RF	1	4	3	1	4
0.No	7783	6764	10115	8732	7400
1.Yes	10668	10430	11885	11794	11314

Value	S1ARTHRE	S2ARTHRE	S3ARTHRE	S4ARTHRE	S5ARTHRE	S6ARTHRE	S7ARTHRE
.D=DK/NA		4	2	6	5	9	9
.M=Oth missing			3	3	4	9	10
.R=RF				1	2	2	1
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	6791	8957	6845	7774	6533	5469	6411
1.Yes	3109	4127	5065	6194	6186	6150	6541

Value	S8ARTHRE	S9ARTHRE	S10ARTHRE	S11ARTHRE	S12ARTHRE
.D=DK/NA	1	4	10	5	6
.M=Oth missing	10	7	8	10	8
.R=RF		2	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5386	4576	6675	5755	4813
1.Yes	6338	6057	6819	6718	6199

Value	R1ARTHRF	R2ARTHRF	R3ARTHRF	R4ARTHRF	R5ARTHRF	R6ARTHRF	R7ARTHRF
0.No dispute,no change	11226	17741	16059	19386	17881	16553	18620
3.Disp,set to N			384	333	317	245	274
4.Disp aft,already N	828	980	659	687	504	362	286
5.Disp aft,.->N		2	3	5	3	3	5
6.Disp aft,Y->N	598	919	886	973	860	824	781
8.Disp prev wv,but now Y					14	9	9
10.NewR=not ever,but PrvR=Y						169	154

Value	R8ARTHRF	R9ARTHRF	R10ARTHRF	R11ARTHRF	R12ARTHRF
0.No dispute,no change	17179	16174	21175	19907	18413
3.Disp,set to N	238	297	212	270	216
4.Disp aft,already N	169	94	53		
5.Disp aft,.->N	1				
6.Disp aft,Y->N	673	476	420	210	
8.Disp prev wv,but now Y	6	5	8	5	1
10.NewR=not ever,but PrvR=Y	203	171	166	162	117

Value	S1ARTHRF	S2ARTHRF	S3ARTHRF	S4ARTHRF	S5ARTHRF	S6ARTHRF	S7ARTHRF
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No dispute,no change	8770	11690	10532	12602	11586	10596	12006
3.Disp,set to N			278	215	203	157	162
4.Disp aft,already N	662	722	500	504	354	253	202
5.Disp aft,->N		1	2	2	3	3	5
6.Disp aft,Y->N	468	675	603	655	575	535	504
8.Disp prev wv,but now Y					9	6	7
10.NewR=not ever,but PrvR=Y						89	86

Value	S8ARTHRF	S9ARTHRF	S10ARTHRF	S11ARTHRF	S12ARTHRF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No dispute,no change	10912	10005	12991	12112	10844
3.Disp,set to N	133	183	125	157	114
4.Disp aft,already N	121	72	37		
5.Disp aft,->N	1				
6.Disp aft,Y->N	436	291	258	122	
8.Disp prev wv,but now Y	3	2	3	3	
10.NewR=not ever,but PrvR=Y	129	93	99	94	69

### Format Reference Tables – complete variable value labels

Variables: ARTHRF, CANCRF, DIABF, HEARTF, HIBPF,  
LUNGF, PSYCHF, STROKF

.T=Other  
.U=Unmarried  
.V=Spouse NR  
0.No dispute,no change  
1.No disp,prld=Y,bef=N->Y  
2.Disp,preld=Y,bef=N, ->N  
3.Disp,set to N  
4.Disp aft,already N  
5.Disp aft,->N  
6.Disp aft,Y->N  
7.Disp bef,Evr=bef Evr  
8.Disp prev wv,but now Y  
10.NewR=not ever,but PrvR=Y

### How Constructed

RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, and RwARTHRE indicate whether or not a doctor has ever told the Respondent s/he had these conditions. The conditions are 1) high blood pressure or hypertension; 2) diabetes or high blood sugar; 3) cancer or a malignant tumor of any kind except skin cancer; 4) chronic lung disease except asthma such as chronic bronchitis or emphysema; 5) heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems; 6) stroke or transient ischemic attack (TIA); 7) emotional, nervous, or psychiatric problems; and 8) arthritis or rheumatism.

With the exception of cases that dispute a report from a prior wave, each of these variables is set to "yes" if the Respondent answered yes to the pertinent question in the current or any prior wave, and to "no" if the Respondent responded no at the current and all prior waves.

Since Wave 2A is the first wave for AHEAD Respondents, questions are asked for all Respondents, unlike Wave 2H, where questions are skipped if reported as a condition in Wave 1.

Beginning in Wave 3, if a preloaded variable so indicates, the Respondent is read a statement that HRS records show

s/he reported a condition at a prior interview. Any voluntary disputes of this statement are recorded. If there is no dispute, the condition variable is coded in the raw HRS data as "yes."

If a condition is disputed, all prior wave reports are set to "no." For example, if a report of high blood pressure is disputed in Wave 3, then R1HIBPE and R2HIBPE are set to "no."

In Waves 3 and 4, if a previous wave report of a condition is disputed, no follow-up question asks whether a doctor has told the Respondent s/he has the condition since the previous wave, and it is assumed that the Respondent does not have the condition in the current wave as well. Starting in Wave 5, the interviewer records the dispute along with an indication of whether the Respondent currently has the condition. If the Respondent says s/he currently has it, the current wave variable is set to "yes," and if not, it is set to "no."

If the presence of a condition was preloaded in a particular wave and not disputed, but prior wave data does not show a previous report, it is assumed that the Respondent is reporting the condition at that wave. For example, if the Respondent did not dispute a statement in Wave 3 that s/he had reported having high blood pressure at a prior interview, but both R1HIBPE and R2HIBPE are "no," then R3HIBPE is set to "yes."

Note that as more waves are added where conditions could be disputed, we notice that for some conditions, Respondents who dispute may have reported receiving treatment or medications for the disputed condition in a prior wave. It may be that the question is interpreted by the Respondent as whether s/he has the condition now, particularly for conditions that can be brought under control, such as high blood pressure. Also disputes are more likely to affect earlier waves than later ones, simply because there have been more opportunities for disputing past answers as time goes on. This time series is not appropriate for tracking changes in the prevalence over time and the version of these variables without disputes incorporated should be used instead. Please see the raw recodes of these variables in "Doctor diagnosed health problems: Raw recodes and question wording." Note that the raw recodes have not been recoded into 0/1 dummy variables, and do not necessarily reflect condition reports from prior waves.

RwHIBPF, RwDIABF, RwCANCRF, RwLUNGF, RwHEARTF, RwSTROKE, RwPSYCHF, and RwARTHRF indicate whether a condition is disputed at the current or a later interview. The codes for the flag variables are: 0) no dispute and no change; 1) no dispute of preload indicating prior report of condition, but data shows no prior report of condition - set current report to yes; 2) disputes preload indicating prior report of condition, and data shows no prior report of condition - set current report to no; 3) disputes preload indicating prior report of condition, and data agrees with preload, set current and prior waves to no; 4) dispute of preload at a later wave would change this wave's report to no, but this wave's report was already no; 6) dispute of preload at a later wave has changed this wave's report from yes to no; 7) preload was disputed at a previous wave, current wave response is no, set to no; 8) preload was disputed at a previous wave, but now has condition; 10) new Respondent is asked the ever question and says no condition, but condition was reported in a prior wave, keep yes.

RwCONDE gives the number of conditions the Respondent reports ever having. It is the sum of individual condition variables. Note that this implicitly treats missing values as "no's" in the sum. RwCONDEM counts how many individual conditions were missing in the sum. RwCONDEF count how many individual condition reports in the sum were changed because of disputes.

SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwHIBPF, SwDIABF, SwCANCRF, SwLUNGF, SwHEARTF, SwSTROKF, SwPSYCHF, SwARTHRE, SwCOND, SwCONDEF, and SwCONDEM give this information for the Respondent's spouse or partner.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3HIBPE is taken from the Wave 3 spouse's R3HIBPE variable.

Please see the "Change in Health" variables as well. Included there are variables that measure whether the individual

conditions are new in a particular wave, i.e., reported as new since the last interview. There is a summary measure for these new conditions as well.

Please see RwHIBP, RwDIAB, RWCANCER, RwLUNG, RwHEART, RwSTROK, RwPSYCH, and RvARTHR for the raw reports at each wave, and RwHIBPQ, RwDIABQ, RWCANCERQ, RwLUNGQ, RwHEARTQ, RwSTROKQ, RwPSYCHQ, and RvARTHRQ for an indication of the question wording used. The description of these variables can be found under "Doctor diagnosed health problems: Raw recodes and question wording."

## Cross Wave Differences in Original HRS Data

A series of questions asks the Respondent if a doctor has ever diagnosed her/him with certain medical conditions. At a Respondent's first interview, Waves 1 and 2A, the question asks:

"Has a doctor ever told you that you have ..."

From Wave 6 forward, if the person answering the questions is new, the question is asked as though it were the first interview, regardless of what had been reported at prior interviews. Thus if the prior interview was given by the Respondent and the current is by proxy, or vice versa, or if both interviews are by proxy but conducted with different people, then this is treated like a first interview and the ever question wording is used.

At subsequent interviews, the question wording depends on whether the appropriate preloaded variable indicates that the Respondent has said "yes" to the condition at a prior interview. If not, the question wording is:

"Since we last talked to you, that is since [last interview date], has a doctor told you that you have ..."

What happens if the Respondent had reported a condition at a prior interview varies across waves. In Wave 2H, if the preloaded variable indicates that the Respondent reported the condition in Wave 1, no question is asked for most conditions. For heart problems, the above question is asked regardless of the preloaded variable value; if the preloaded variable indicates a Wave 1 heart problem, it is prefaced by a statement that a heart condition has already been reported.

Beginning in Wave 3, if the preloaded variable indicates that the Respondent reported a condition at a prior interview, a statement is read:

"Our records from your last interview show that you have had ..."

No explicit question is asked. If the Respondent disputes the statement voluntarily, this is recorded, but no follow-up on the current diagnosis of the condition is asked in Waves 3 and 4. Starting in Wave 5, if the Respondent disputes the statement, the interviewer is instructed to probe as to whether or not the Respondent has since been diagnosed with the condition. The dispute is recorded as "disputes previous wave record but now has the condition" or "disputes and does not have the condition." Most disputes are of the latter type. If the Respondent does not dispute the statement, the variable that indicates the diagnosis of the condition is set to "yes."

In Wave 4, an alternate variable is provided for the heart condition question (F1156A). Apparently a skip pattern problem in this wave causes some cases who had previously reported a heart condition to be asked if they'd been told they had one since last interview, and some respond "No." These cases are identified in F1156A.

In Wave 2A and from Wave 3 forward, a code for "possible stroke or transient ischemic attack (TIA)" is added, if the Respondent volunteered this information in answer to the question about strokes. This code is not available in Waves 1 and 2H. TIA is treated the same as a "yes" answer in deriving RwSTROKE.

The definition of "doctor" in Wave 6 was: Medical doctors include specialists such as, Dermatologists, Psychiatrists, Ophthalmologists, as well as general practitioners, and Osteopaths. Do not include Chiropractors, Dentists, or Nurses/Nurse Practitioners.

In Wave 7 this was expanded as follows: Medical doctors include specialists such as Dermatologists, Psychiatrists, Ophthalmologists, Osteopaths, Cardiologists, as well as family doctors, internists and physicians' assistants.

## HRS Variables Used

### HRS 1992:

V325	B6:EVER HI BLD PRESS:IMP
V328	B7:EVER DIAB/HI BLD :IMP
V337	B9: CANCER/MALIGN TU:IMP
V401	B15:CHRONIC LUNG DIS:IMP
V406	B16:EVER HEART PROBL:IMP
V417	B22:EVER HAD STROKE :IMP
V422	B23:EMOT/NERV/PSYCH :IMP
V426	B25:ARTHRITIS/RHEUMA:IMP

### AHEAD 1993:

B215	B3. HIGH BLOOD PRESSURE EVER
B219	B4. DIABETES: NOW
B225	B5. CANCER EVER
B235	B6. LUNG DISEASE: EVER
B242	B7. HEART CONDITION: EVER
B252	B8. STROKE: EVER
B259	B9. PSYCHIATRIC PROBLEMS: EVER
B265	B10. ARTHRITIS: PAST 12 MONTHS

### HRS 1994:

W328	B6a.HIGH BLOOD PRESSURE
W331	B7.DIABETES/HIGH BLOOD S
W339	B9.CANCER/MALIGNANT TUMO
W362	B14.CHRONIC LUNG DISEASE
W367	B15.HEART PROBLEMS EVER
W368	B15.HEART CONDITIONS
W379	B21.STROKE
W384	B23.EMOTIONAL/NERVOUS/PS
W387	B24.ARTHRITIS/RHEUMATISM

### AHEAD 1995:

D781	B3. HIGH BLOOD PRESSURE
D788	B4. DIABETES
D801	B5.CANCER
D818	B6. LUNG
D828	B7. HEART CONDITION
D848	B9. STROKE
D861	B10. PSYCHIATRIC
D866	B11. ARTHRITIS

### HRS 1996:

E781	B3. HIGH BLOOD PRESSURE
E788	B4. DIABETES
E801	B5.CANCER
E818	B6. LUNG
E828	B7. HEART CONDITION
E848	B9. STROKE
E861	B10. PSYCHIATRIC
E866	B11. ARTHRITIS

### HRS 1998:

F1109	B3. HIGH BLOOD PRESSURE
F1116	B4. DIABETES
F1129	B5. CANCER
F1146	B6. LUNG
F1156	B7. HEART CONDITION
F1176	B9. STROKE
F1189	B10. PSYCHIATRIC
F1194	B11. ARTHRITIS
HRS 2000:	
G1238	B3. HIGH BLOOD PRESSURE
G1245	B4. DIABETES
G1262	B5. CANCER
G1279	B6. LUNG
G1289	B7. HEART CONDITION
G1309	B9. STROKE
G1322	B10. PSYCHIATRIC
G1327	B11. ARTHRITIS
HRS 2002:	
HC005	HIGH BLOOD PRESSURE
HC010	DIABETES
HC018	CANCER OF ANY KIND EXCLUDING SKIN
HC030	LUNG DISEASE
HC036	HEART CONDITION
HC053	STROKE
HC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
HC070	ARTHRITIS
HRS 2004:	
JC005	HIGH BLOOD PRESSURE
JC010	DIABETES
JC018	CANCER OF ANY KIND EXCLUDING SKIN
JC030	LUNG DISEASE
JC036	HEART CONDITION
JC053	STROKE
JC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
JC070	ARTHRITIS
HRS 2006:	
KC005	HIGH BLOOD PRESSURE
KC010	DIABETES
KC018	CANCER OF ANY KIND EXCLUDING SKIN
KC030	LUNG DISEASE
KC036	HEART CONDITION
KC053	STROKE
KC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
KC070	ARTHRITIS
HRS 2008:	
LC005	HIGH BLOOD PRESSURE
LC010	DIABETES
LC018	CANCER OF ANY KIND EXCLUDING SKIN
LC030	LUNG DISEASE
LC036	HEART CONDITION
LC053	STROKE
LC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
LC070	ARTHRITIS
HRS 2010:	
MC005	HIGH BLOOD PRESSURE
MC010	DIABETES
MC018	CANCER OF ANY KIND EXCLUDING SKIN
MC030	LUNG DISEASE
MC036	HEART CONDITION

MC053	STROKE
MC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
MC070	ARTHRITIS
HRS 2012:	
NC005	HIGH BLOOD PRESSURE
NC010	DIABETES
NC018	CANCER OF ANY KIND EXCLUDING SKIN
NC030	LUNG DISEASE
NC036	HEART CONDITION
NC053	STROKE
NC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
NC070	ARTHRITIS
HRS 2014:	
OC005	HIGH BLOOD PRESSURE
OC010	DIABETES
OC018	CANCER OF ANY KIND EXCLUDING SKIN
OC030	LUNG DISEASE
OC036	HEART CONDITION
OC053	STROKE
OC065	EMOTIONAL/PSYCHIATRIC PROBLEMS
OC070	ARTHRITIS



### Doctor diagnosed health problems: Memory-related disease

Wave	Variable	Label	Type
4	R4MEMRY	R4MEMRY:W4 R reports memory prob this wv	Categ
5	R5MEMRY	R5MEMRY:W5 R reports memory prob this wv	Categ
6	R6MEMRY	R6MEMRY:W6 R reports memory prob this wv	Categ
7	R7MEMRY	R7MEMRY:W7 R reports memory prob this wv	Categ
8	R8MEMRY	R8MEMRY:W8 R reports memory prob this wv	Categ
9	R9MEMRY	R9MEMRY:W9 R reports memory prob this wv	Categ
4	S4MEMRY	S4MEMRY:W4 S reports memory prob this wv	Categ
5	S5MEMRY	S5MEMRY:W5 S reports memory prob this wv	Categ
6	S6MEMRY	S6MEMRY:W6 S reports memory prob this wv	Categ
7	S7MEMRY	S7MEMRY:W7 S reports memory prob this wv	Categ
8	S8MEMRY	S8MEMRY:W8 S reports memory prob this wv	Categ
9	S9MEMRY	S9MEMRY:W9 S reports memory prob this wv	Categ
4	R4MEMRYQ	R4MEMRYQ:W4 Q-wording memory prob this wv	Categ
5	R5MEMRYQ	R5MEMRYQ:W5 Q-wording memory prob this wv	Categ
6	R6MEMRYQ	R6MEMRYQ:W6 Q-wording memory prob this wv	Categ
7	R7MEMRYQ	R7MEMRYQ:W7 Q-wording memory prob this wv	Categ
8	R8MEMRYQ	R8MEMRYQ:W8 Q-wording memory prob this wv	Categ
9	R9MEMRYQ	R9MEMRYQ:W9 Q-wording memory prob this wv	Categ
4	S4MEMRYQ	S4MEMRYQ:W4 Q-wording memory prob this wv	Categ
5	S5MEMRYQ	S5MEMRYQ:W5 Q-wording memory prob this wv	Categ
6	S6MEMRYQ	S6MEMRYQ:W6 Q-wording memory prob this wv	Categ
7	S7MEMRYQ	S7MEMRYQ:W7 Q-wording memory prob this wv	Categ
8	S8MEMRYQ	S8MEMRYQ:W8 Q-wording memory prob this wv	Categ
9	S9MEMRYQ	S9MEMRYQ:W9 Q-wording memory prob this wv	Categ
4	R4MEMRYE	R4MEMRYE:W4 R ever had memory problem	Categ
5	R5MEMRYE	R5MEMRYE:W5 R ever had memory problem	Categ
6	R6MEMRYE	R6MEMRYE:W6 R ever had memory problem	Categ
7	R7MEMRYE	R7MEMRYE:W7 R ever had memory problem	Categ
8	R8MEMRYE	R8MEMRYE:W8 R ever had memory problem	Categ
9	R9MEMRYE	R9MEMRYE:W9 R ever had memory problem	Categ
4	S4MEMRYE	S4MEMRYE:W4 S ever had memory problem	Categ
5	S5MEMRYE	S5MEMRYE:W5 S ever had memory problem	Categ
6	S6MEMRYE	S6MEMRYE:W6 S ever had memory problem	Categ
7	S7MEMRYE	S7MEMRYE:W7 S ever had memory problem	Categ
8	S8MEMRYE	S8MEMRYE:W8 S ever had memory problem	Categ
9	S9MEMRYE	S9MEMRYE:W9 S ever had memory problem	Categ
5	R5MEMRYF	R5MEMRYF:W5 Flag chg prev memory prob	Categ
6	R6MEMRYF	R6MEMRYF:W6 Flag chg prev memory prob	Categ
7	R7MEMRYF	R7MEMRYF:W7 Flag chg prev memory prob	Categ
8	R8MEMRYF	R8MEMRYF:W8 Flag chg prev memory prob	Categ
9	R9MEMRYF	R9MEMRYF:W9 Flag chg prev memory prob	Categ
5	S5MEMRYF	S5MEMRYF:W5 Flag chg prev memory prob	Categ
6	S6MEMRYF	S6MEMRYF:W6 Flag chg prev memory prob	Categ
7	S7MEMRYF	S7MEMRYF:W7 Flag chg prev memory prob	Categ
8	S8MEMRYF	S8MEMRYF:W8 Flag chg prev memory prob	Categ
9	S9MEMRYF	S9MEMRYF:W9 Flag chg prev memory prob	Categ
10	R10ALZHE	R10ALZHE:W10 R reports Alzheimer this wv	Categ
11	R11ALZHE	R11ALZHE:W11 R reports Alzheimer this wv	Categ
12	R12ALZHE	R12ALZHE:W12 R reports Alzheimer this wv	Categ
10	S10ALZHE	S10ALZHE:W10 S reports Alzheimer this wv	Categ
11	S11ALZHE	S11ALZHE:W11 S reports Alzheimer this wv	Categ
12	S12ALZHE	S12ALZHE:W12 S reports Alzheimer this wv	Categ
10	R10ALZHEQ	R10ALZHEQ:W10 Q-wording of Alzheimer this wv	Categ
11	R11ALZHEQ	R11ALZHEQ:W11 Q-wording of Alzheimer this wv	Categ
12	R12ALZHEQ	R12ALZHEQ:W12 Q-wording of Alzheimer this wv	Categ

10	S10ALZHEQ	S10ALZHEQ:W10	Q-wording of Alzheimer this wv	Categ
11	S11ALZHEQ	S11ALZHEQ:W11	Q-wording of Alzheimer this wv	Categ
12	S12ALZHEQ	S12ALZHEQ:W12	Q-wording of Alzheimer this wv	Categ
10	R10ALZHEE	R10ALZHEE:W10	R ever reported Alzheimer	Categ
11	R11ALZHEE	R11ALZHEE:W11	R ever reported Alzheimer	Categ
12	R12ALZHEE	R12ALZHEE:W12	R ever reported Alzheimer	Categ
10	S10ALZHEE	S10ALZHEE:W10	S ever reported Alzheimer	Categ
11	S11ALZHEE	S11ALZHEE:W11	S ever reported Alzheimer	Categ
12	S12ALZHEE	S12ALZHEE:W12	S ever reported Alzheimer	Categ
11	R11ALZHEF	R11ALZHEF:W11	Flag chg prev report of Alzheimer	Categ
12	R12ALZHEF	R12ALZHEF:W12	Flag chg prev report of Alzheimer	Categ
11	S11ALZHEF	S11ALZHEF:W11	Flag chg prev report of Alzheimer	Categ
12	S12ALZHEF	S12ALZHEF:W12	Flag chg prev report of Alzheimer	Categ
10	R10DEMEN	R10DEMEN:W10	R reports dementia this wv	Categ
11	R11DEMEN	R11DEMEN:W11	R reports dementia this wv	Categ
12	R12DEMEN	R12DEMEN:W12	R reports dementia this wv	Categ
10	S10DEMEN	S10DEMEN:W10	S reports dementia this wv	Categ
11	S11DEMEN	S11DEMEN:W11	S reports dementia this wv	Categ
12	S12DEMEN	S12DEMEN:W12	S reports dementia this wv	Categ
10	R10DEMENQ	R10DEMENQ:W10	Q-wording of dementia this wv	Categ
11	R11DEMENQ	R11DEMENQ:W11	Q-wording of dementia this wv	Categ
12	R12DEMENQ	R12DEMENQ:W12	Q-wording of dementia this wv	Categ
10	S10DEMENQ	S10DEMENQ:W10	Q-wording of dementia this wv	Categ
11	S11DEMENQ	S11DEMENQ:W11	Q-wording of dementia this wv	Categ
12	S12DEMENQ	S12DEMENQ:W12	Q-wording of dementia this wv	Categ
10	R10DEMENE	R10DEMENE:W10	R ever reported dementia	Categ
11	R11DEMENE	R11DEMENE:W11	R ever reported dementia	Categ
12	R12DEMENE	R12DEMENE:W12	R ever reported dementia	Categ
10	S10DEMENE	S10DEMENE:W10	S ever reported dementia	Categ
11	S11DEMENE	S11DEMENE:W11	S ever reported dementia	Categ
12	S12DEMENE	S12DEMENE:W12	S ever reported dementia	Categ
11	R11DEMENF	R11DEMENF:W11	Flag chg prev report of dementia	Categ
12	R12DEMENF	R12DEMENF:W12	Flag chg prev report of dementia	Categ
11	S11DEMENF	S11DEMENF:W11	Flag chg prev report of dementia	Categ
12	S12DEMENF	S12DEMENF:W12	Flag chg prev report of dementia	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R4MEMRY	21370	0.03	0.16	0.0	1.0
R5MEMRY	19220	0.02	0.13	0.0	1.0
R6MEMRY	17987	0.03	0.17	0.0	1.0
R7MEMRY	19743	0.03	0.16	0.0	1.0
R8MEMRY	17928	0.02	0.15	0.0	1.0
R9MEMRY	17197	0.07	0.35	0.0	4.0
S4MEMRY	13974	0.02	0.14	0.0	1.0
S5MEMRY	12547	0.01	0.11	0.0	1.0
S6MEMRY	11554	0.02	0.13	0.0	1.0
S7MEMRY	12798	0.02	0.13	0.0	1.0
S8MEMRY	11492	0.02	0.13	0.0	1.0
S9MEMRY	10640	0.05	0.31	0.0	4.0

R4MEMRYQ	21384	1.00	0.00	1.0	1.0
R5MEMRYQ	19579	2.26	1.53	1.0	12.0
R6MEMRYQ	18165	2.42	1.80	1.0	15.0
R7MEMRYQ	20129	2.10	1.34	1.0	15.0
R8MEMRYQ	18469	2.27	1.13	1.0	15.0
R9MEMRYQ	17217	2.22	1.08	1.0	15.0
S4MEMRYQ	13978	1.00	0.00	1.0	1.0
S5MEMRYQ	12730	2.20	1.40	1.0	12.0
S6MEMRYQ	11639	2.34	1.58	1.0	15.0
S7MEMRYQ	12972	2.05	1.26	1.0	15.0
S8MEMRYQ	11735	2.24	1.03	1.0	15.0
S9MEMRYQ	10646	2.19	0.97	1.0	15.0
R4MEMRYE	21370	0.02	0.16	0.0	1.0
R5MEMRYE	19576	0.04	0.18	0.0	1.0
R6MEMRYE	18164	0.04	0.20	0.0	1.0
R7MEMRYE	20127	0.05	0.21	0.0	1.0
R8MEMRYE	18469	0.05	0.22	0.0	1.0
R9MEMRYE	17200	0.06	0.24	0.0	1.0
S4MEMRYE	13974	0.02	0.13	0.0	1.0
S5MEMRYE	12728	0.02	0.16	0.0	1.0
S6MEMRYE	11638	0.03	0.16	0.0	1.0
S7MEMRYE	12971	0.03	0.17	0.0	1.0
S8MEMRYE	11735	0.04	0.19	0.0	1.0
S9MEMRYE	10640	0.04	0.20	0.0	1.0
R5MEMRYF	19579	0.00	0.00	0.0	0.0
R6MEMRYF	18165	0.01	0.15	0.0	2.0
R7MEMRYF	20129	0.01	0.13	0.0	2.0
R8MEMRYF	18469	0.01	0.12	0.0	2.0
R9MEMRYF	17217	0.02	0.25	0.0	8.0
S5MEMRYF	12730	0.00	0.00	0.0	0.0
S6MEMRYF	11639	0.01	0.14	0.0	2.0
S7MEMRYF	12972	0.01	0.11	0.0	2.0
S8MEMRYF	11735	0.01	0.10	0.0	2.0
S9MEMRYF	10646	0.02	0.22	0.0	3.0
R10ALZHE	21988	0.02	0.12	0.0	1.0
R11ALZHE	20493	0.03	0.22	0.0	4.0
R12ALZHE	18704	0.02	0.18	0.0	4.0
S10ALZHE	13493	0.01	0.10	0.0	1.0
S11ALZHE	12464	0.02	0.18	0.0	4.0
S12ALZHE	11009	0.01	0.15	0.0	4.0
R10ALZHEQ	22034	1.84	0.84	1.0	12.0
R11ALZHEQ	20554	2.23	1.26	1.0	16.0
R12ALZHEQ	18747	2.11	0.66	1.0	16.0
S10ALZHEQ	13513	1.82	0.83	1.0	12.0
S11ALZHEQ	12488	2.21	1.24	1.0	16.0
S12ALZHEQ	11027	2.10	0.66	1.0	16.0
R10ALZHEE	21988	0.02	0.12	0.0	1.0
R11ALZHEE	20506	0.02	0.13	0.0	1.0

R12ALZHEE	18712	0.02	0.14	0.0	1.0
S10ALZHEE	13493	0.01	0.09	0.0	1.0
S11ALZHEE	12471	0.01	0.10	0.0	1.0
S12ALZHEE	11013	0.01	0.11	0.0	1.0
R11ALZHEF	20554	0.01	0.24	0.0	8.0
R12ALZHEF	18747	0.00	0.10	0.0	3.0
S11ALZHEF	12488	0.01	0.21	0.0	8.0
S12ALZHEF	11027	0.00	0.08	0.0	3.0
R10DEMEN	21639	0.02	0.14	0.0	1.0
R11DEMEN	20177	0.04	0.27	0.0	4.0
R12DEMEN	18379	0.04	0.28	0.0	4.0
S10DEMEN	13365	0.01	0.12	0.0	1.0
S11DEMEN	12355	0.03	0.22	0.0	4.0
S12DEMEN	10902	0.03	0.26	0.0	4.0
R10DEMENQ	22034	1.84	0.84	1.0	12.0
R11DEMENQ	20554	2.22	1.24	1.0	16.0
R12DEMENQ	18747	2.14	0.84	1.0	16.0
S10DEMENQ	13513	1.82	0.83	1.0	12.0
S11DEMENQ	12488	2.21	1.23	1.0	16.0
S12DEMENQ	11027	2.12	0.78	1.0	16.0
R10DEMENE	21640	0.02	0.13	0.0	1.0
R11DEMENE	20209	0.03	0.16	0.0	1.0
R12DEMENE	18440	0.03	0.18	0.0	1.0
S10DEMENE	13366	0.01	0.11	0.0	1.0
S11DEMENE	12367	0.02	0.13	0.0	1.0
S12DEMENE	10924	0.02	0.15	0.0	1.0
R11DEMENF	20554	0.03	0.37	0.0	8.0
R12DEMENF	18747	0.02	0.23	0.0	8.0
S11DEMENF	12488	0.03	0.36	0.0	8.0
S12DEMENF	11027	0.01	0.21	0.0	8.0

## Categorical Variable Codes

Value	R4MEMRY	R5MEMRY	R6MEMRY	R7MEMRY
.D=DK/NA	13	7	11	16
.R=RF	1	2	2	2
.Y=Via preload+yes prev wv		350	165	368
0.No	20834	18869	17468	19228
1.Yes	536	351	519	515

Value	R8MEMRY	R9MEMRY
.D=DK/NA	14	17
.M=Oth missing	1	
.R=RF	4	3
.Y=Via preload+yes prev wv	522	
0.No	17490	16167
1.Yes	438	948
3.Disp prev record and has		1
4.Disp prev record and no c		81

Value	S4MEMRY	S5MEMRY	S6MEMRY	S7MEMRY
.D=DK/NA	4	6	3	4
.R=RF		1	2	1
.U=Unmarried	6869	6538	6306	6777
.V=Spouse NR	537	311	220	380
.Y=Via preload+yes prev wv		176	80	169
0.No	13713	12394	11348	12582
1.Yes	261	153	206	216

Value	S8MEMRY	S9MEMRY
.D=DK/NA	6	4
.R=RF	2	2
.U=Unmarried	6417	6206
.V=Spouse NR	317	365
.Y=Via preload+yes prev wv	235	
0.No	11295	10183
1.Yes	197	415
4.Disp prev record and no c		42

Value	R4MEMRYQ	R5MEMRYQ	R6MEMRYQ	R7MEMRYQ
1.NewIvw: have had [ever]	21384	266	226	3471
2.ReIvw,NoCond: have had si		18505	16322	15163
4.ReIvw,Cond: skip question		350	165	368
5.ReIvw/NewR: have ever had			1072	959
11.ReIvw BUT Pre=NewIvw: ha		4	6	5
12.NewIvw BUT Pre=ReIvw,NoC		454	172	71
15.ReIvw,Cond BUT Pre=NoCon			202	92

Value	R8MEMRYQ	R9MEMRYQ
1.NewIvw: have had [ever]	207	143
2.ReIvw,NoCond: have had si	16628	15634
3.ReIvw,Cond: last time sai		543
4.ReIvw,Cond: skip question	522	
5.ReIvw/NewR: have ever had	1020	816
11.ReIvw BUT Pre=NewIvw: ha	6	
12.NewIvw BUT Pre=ReIvw,NoC	23	13
15.ReIvw,Cond BUT Pre=NoCon	63	68

Value	S4MEMRYQ	S5MEMRYQ	S6MEMRYQ	S7MEMRYQ
.U=Unmarried	6869	6538	6306	6777
.V=Spouse NR	537	311	220	380
1.NewIvw: have had [ever]	13978	248	209	2484
2.ReIvw,NoCond: have had si		12060	10525	9649
4.ReIvw,Cond: skip question		176	80	169
5.ReIvw/NewR: have ever had			648	577
11.ReIvw BUT Pre=NewIvw: ha		3	6	5
12.NewIvw BUT Pre=ReIvw,NoC		243	78	42
15.ReIvw,Cond BUT Pre=NoCon			93	46

Value	S8MEMRYQ	S9MEMRYQ
.U=Unmarried	6417	6206
.V=Spouse NR	317	365
1.NewIvw: have had [ever]	198	139
2.ReIvw,NoCond: have had si	10593	9747
3.ReIvw,Cond: last time sai		250
4.ReIvw,Cond: skip question	235	
5.ReIvw/NewR: have ever had	668	474
11.ReIvw BUT Pre=NewIvw: ha	6	
12.NewIvw BUT Pre=ReIvw,NoC	8	5
15.ReIvw,Cond BUT Pre=NoCon	27	31

Value		R4MEMRYE	R5MEMRYE	R6MEMRYE	R7MEMRYE
.D=DK/NA		13	1		1
.R=RF		1	2	1	1
0.No		20837	18890	17394	19199
1.Yes		533	686	770	928

Value		R8MEMRYE	R9MEMRYE
.D=DK/NA			14
.R=RF			3
0.No		17491	16159
1.Yes		978	1041

Value		S4MEMRYE	S5MEMRYE	S6MEMRYE	S7MEMRYE
.D=DK/NA		4	1		
.R=RF			1	1	1
.U=Unmarried		6869	6538	6306	6777
.V=Spouse NR		537	311	220	380
0.No		13715	12410	11313	12581
1.Yes		259	318	325	390

Value		S8MEMRYE	S9MEMRYE
.D=DK/NA			4
.R=RF			2
.U=Unmarried		6417	6206
.V=Spouse NR		317	365
0.No		11304	10185
1.Yes		431	455

Value		R5MEMRYF	R6MEMRYF	R7MEMRYF
0.OK		19579	18048	20023
1.NewR says not ever but pr			24	33
2.Says no cur wv but prev s			93	73

Value		R8MEMRYF	R9MEMRYF
0.OK		18369	17046
1.NewR says not ever but pr		45	32
2.Says no cur wv but prev s		55	57
3.Dispute,set to N			81
8.Dispute prev wv,but now Y			1

Value		S5MEMRYF	S6MEMRYF	S7MEMRYF
.U=Unmarried		6538	6306	6777
.V=Spouse NR		311	220	380
0.OK		12730	11580	12929
1.NewR says not ever but pr			6	7
2.Says no cur wv but prev s			53	36

Value		S8MEMRYF	S9MEMRYF
.U=Unmarried		6417	6206
.V=Spouse NR		317	365
0.OK		11689	10564
1.NewR says not ever but pr		22	12
2.Says no cur wv but prev s		24	28
3.Dispute,set to N			42

Value		R10ALZHE	R11ALZHE	R12ALZHE
.D=DK/NA		24	14	15
.M=Oth missing		20	44	26
.R=RF		2	3	2
0.No		21645	20095	18350
1.Yes		343	355	337
3.Disp prev record and has			3	
4.Disp prev record and no c			40	17

Value		S10ALZHE	S11ALZHE	S12ALZHE
.D=DK/NA		10	5	4
.M=Oth missing		9	18	13
.R=RF		1	1	1
.U=Unmarried		7799	7474	7127
.V=Spouse NR		722	592	593
0.No		13366	12320	10886
1.Yes		127	127	115
3.Disp prev record and has			1	
4.Disp prev record and no c			16	8



Value	S10ALZHEQ	S11ALZHEQ	S12ALZHEQ
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
1.NewIvw: have had [ever]	4096	313	167
2.ReIvw,NoCond: have had si	8916	11509	10419
3.ReIvw,Cond: last time sai		55	56
5.ReIvw/NewR: have ever had	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	5	1	
15.ReIvw,Cond BUT Pre=NoCon		8	
16.ReIvw,NoCond BUT Pre=Con		15	5

Value	R10ALZHEE	R11ALZHEE	R12ALZHEE
.D=DK/NA	24	10	14
.M=Oth missing	20	36	19
.R=RF	2	2	2
0.No	21658	20143	18352
1.Yes	330	363	360

Value	S10ALZHEE	S11ALZHEE	S12ALZHEE
.D=DK/NA	10	3	4
.M=Oth missing	9	14	9
.R=RF	1		1
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
0.No	13374	12342	10890
1.Yes	119	129	123

Value	R11ALZHEF	R12ALZHEF
0.OK	20485	18715
1.NewR says not ever but pr	8	12
2.Says no cur wv but prev s	1	3
3.Dispute,set to N	40	17
6.Dispute after,Y->N	17	
8.Dispute prev wv,but now Y	3	

Value	S11ALZHEF	S12ALZHEF
.U=Unmarried	7474	7127
.V=Spouse NR	592	593
0.OK	12457	11015
1.NewR says not ever but pr	4	3
2.Says no cur wv but prev s		1
3.Dispute,set to N	16	8
6.Dispute after,Y->N	10	
8.Dispute prev wv,but now Y	1	

Value	R10DEMEN	R11DEMEN	R12DEMEN
.D=DK/NA	28	13	28
.M=Oth missing	363	358	337
.R=RF	4	6	3
0.No	21203	19602	17820
1.Yes	436	511	493
3.Disp prev record and has		1	6
4.Disp prev record and no c		63	60

Value	S10DEMEN	S11DEMEN	S12DEMEN
.D=DK/NA	11	4	9
.M=Oth missing	136	128	115
.R=RF	1	1	1
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
0.No	13180	12108	10668
1.Yes	185	221	199
3.Disp prev record and has		1	2
4.Disp prev record and no c		25	33

Value	R10DEMENQ	R11DEMENQ	R12DEMENQ
1.NewIvw: have had [ever]	6439	331	178
2.ReIvw,NoCond: have had si	14699	18987	17585
3.ReIvw,Cond: last time sai		237	287
5.ReIvw/NewR: have ever had	877	753	655
11.ReIvw BUT Pre=NewIvw: ha	11	188	5
12.NewIvw BUT Pre=ReIvw,NoC	8	7	1
15.ReIvw,Cond BUT Pre=NoCon		21	12
16.ReIvw,NoCond BUT Pre=Con		30	24

Value	S10DEMENQ	S11DEMENQ	S12DEMENQ
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
1.NewIvw: have had [ever]	4096	313	167
2.ReIvw,NoCond: have had si	8916	11464	10348
3.ReIvw,Cond: last time sai		102	117
5.ReIvw/NewR: have ever had	485	450	375
11.ReIvw BUT Pre=NewIvw: ha	11	137	5
12.NewIvw BUT Pre=ReIvw,NoC	5	1	
15.ReIvw,Cond BUT Pre=NoCon		11	7
16.ReIvw,NoCond BUT Pre=Con		10	8

Value	R10DEMENE	R11DEMENE	R12DEMENE
.D=DK/NA	28	12	23
.M=Oth missing	362	327	281
.R=RF	4	6	3
0.No	21258	19691	17845
1.Yes	382	518	595

Value	S10DEMENE	S11DEMENE	S12DEMENE
.D=DK/NA	11	3	7
.M=Oth missing	135	117	95
.R=RF	1	1	1
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
0.No	13211	12156	10683
1.Yes	155	211	241

Value	R11DEMENF	R12DEMENF
0.OK	20392	18646
1.NewR says not ever but pr	16	15
2.Says no cur wv but prev s	16	20
3.Dispute,set to N	63	60
4.Dispute after,already N	8	
5.Dispute after,.->N	2	
6.Dispute after,Y->N	56	
8.Dispute prev wv,but now Y	1	6

Value	S11DEMENF	S12DEMENF
.U=Unmarried	7474	7127
.V=Spouse NR	592	593
0.OK	12411	10974
1.NewR says not ever but pr	6	6
2.Says no cur wv but prev s	7	12
3.Dispute,set to N	25	33
4.Dispute after,already N	2	
5.Dispute after,.->N	2	
6.Dispute after,Y->N	34	
8.Dispute prev wv,but now Y	1	2

## Format Reference Tables – complete variable value labels

Variables: ALZHE, ARTHR, CANCR, DEMEN, DIAB, HEART, HIBP, LUNG, MEMRY, PSYCH, STROK	Variables: ALZHEQ, ARTHRQ, CANCRQ, DEMENQ, DIABQ, HEARTQ, HIBPQ, LUNGQ, MEMRYQ, PSYCHQ, STROKQ
.D=DK/NA	.T=Other
.I=HRS impute=has cond	.U=Unmarried
.J=HRS impute=no cond	.V=Spouse NR
.M=Oth missing	1.NewIvw: have had [ever]
.P=Preload yes,but no prv wv	2.ReIvw,NoCond: have had since last Ivw
.R=RF	3.ReIvw,Cond: last time said had
.S=Skip	4.ReIvw,Cond: skip question
.T=Other	5.ReIvw/NewR: have ever had
.U=Unmarried	6.ReIvw,Cond: told had since last Ivw
.V=Spouse NR	10.Ovrlap-93Ivw: have had [ever]
.Y=Via preload+yes prev wv	11.ReIvw BUT Pre=NewIvw: have had [ever]
0.No	12.NewIvw BUT Pre=ReIvw,NoCond: have had since las
1.Yes	13.NewIvw BUT Pre=ReIvw,Cond: last time said had
2.TIA/possible stroke	14.NewIvw BUT Pre=ReIvw,Cond: skip question
3.Disp prev record and has cond	15.ReIvw,Cond BUT Pre=NoCond: have had since last
4.Disp prev record and no cond	16.ReIvw,NoCond BUT Pre=Cond: last time said had
5.Disp prev record (DK if cond)	17.ReIvw,NoCond BUT Pre=Cond: Skip question
6.Preld prob:prev had/no new	18.NewIvw BUT Pre=ReIvw,Cond: told had since last
	19.ReIvw,NoCond BUT Pre=Cond: told had since last
Variables: ALZHEF, DEMENF, MEMRYF	
.U=Unmarried	
.V=Spouse NR	
0.OK	
1.NewR says not ever but prev said had cond	
2.Says no cur wv but prev said had cond	
3.Dispute,set to N	
4.Dispute after,already N	
5.Dispute after,.->N	
6.Dispute after,Y->N	
7.Dispute before,Evr=bef Evr	
8.Dispute prev wv,but now Y	

## How Constructed

RwMEMRY indicates the raw response to the question regarding whether or not a doctor has told the Respondent s/he had a memory-related disease. The exact question wording depends on whether this is a first interview and whether the person being interviewed is the same as in the prior interview. If a preload variable indicates that the condition was reported at a prior interview, then the question is skipped. The question about memory-related disease is first asked in Wave 4. It is not asked after Wave 9.

RwMEMORYQ indicates the question wording used, based on preload variables, and whether the preloaded information is correct. RwMEMORYE indicates whether or not a doctor has ever told the Respondent s/he had this condition in this or any previous wave. RwMEMORYF indicates whether the current wave conflicts with information given at a prior wave.

The question wording is one of the following (main codes in "Q" variables are given in parentheses):

If new interview, or from Wave 6 forward, new person answering questions (1.NewIvw or 5.ReIvw/NewR): "Has a doctor ever told you that you have ..."

If reinterview and no prior report of condition (2.ReIvw,NoCond): "Since we last talked to you, that is since [last interview date], has a doctor told you that you have ..."

Through Wave 8, if it is a reinterview and the condition is reported in a prior wave (4.ReIvw,Cond), the question is skipped.

In Wave 9, all Respondents were asked this question and were given the opportunity to dispute answers given in previous waves.

In Wave 10, the health questionnaire changed. Respondents are now asked if they have ever been told they have Alzheimer's disease or dementia rather than memory-related disease as in previous waves.

RwALZHE and RwDEMEN indicate the raw response to the questions regarding whether or not a doctor has told the Respondent s/he had Alzheimer/dementia. The exact question wording depends on whether this is a first interview and whether the person being interviewed is the same as in the prior interview. If a preload variable indicates that the condition was reported at a prior interview, then the question is skipped.

RwALZHEQ and RwDEMENQ indicate the question wording used, based on preload variables, and whether the preloaded information is correct. RwALZHEE and RwDEMENE indicate whether or not a doctor has ever told the Respondent s/he had this condition in this or any previous wave. RwALZHEF and RwDEMENF indicate whether the current wave conflicts with information given at a prior wave.

The question wording is one of the following (main codes in "Q" variables are given in parentheses):

If new interview, or from Wave 6 forward, new person answering questions (1.NewIvw or 5.ReIvw/NewR): "Has a doctor ever told you that you have ..."

If reinterview and no prior report of condition (2.ReIvw,NoCond): "Since we last talked to you, that is since [last interview date], has a doctor told you that you have ..."

The "Q" variables have additional codes that indicate situations where the preload variables determine the question wording, but do not agree with the actual situation in prior waves. A code of 11 means that the Respondent has a prior interview but the preload indicates this is a new interview, so the question asks if the Respondent has ever been told about a condition; 12 means that this is a new interview but the preload indicates it is a reinterview; and 15 means that the Respondent previously reported having a condition but the preload indicates a prior interview with no condition. In situations flagged by a 12 or 15, the question asks if the Respondent has been told about a condition since the last interview, even though this is the Respondent's first interview (in the case of 12), or the question should have been skipped due to a prior report (in the case of 15).

RwMEMORY, RwALZHE, and RwDEMEN are recoded to reflect the answer given. The meaning of the answer depends on the question asked, so the analyst may want to consider this variable in conjunction with the corresponding "Q" variables.

Generally, a "1" means "yes" and "0" means "no." Note that for a re-interview when the condition was previously reported, this question is skipped; in this situation the variable is set to SAS special missing .Y.

For RwMEMRYE, RwALZHEE, and RwDEMENE, the variable is set to "yes" if the Respondent answered yes to the pertinent question in the current or any prior wave, and to "no" if the Respondent responded no at the current and all prior waves. If the Respondent reports having the condition at one wave and later the question is asked again because a new proxy is answering, with a negative response, the variable will still remain set to "yes" for the later wave, but the flag variable (RwMEMRYF, RwALZHEF, or RwDEMENF) will be set to "1." If the question is asked again because of a skip pattern problem and the answer conflicts with a prior report of the condition, the flag variable (RwMEMRYF, RwALZHEF, or RwDEMENF) will be set to "2," but the "E" variable (RwMEMRYE, RwALZHEE, or RwDEMENE) will remain set to "yes."

SwMEMRY, SwALZHE, SwDEMEN, SwMEMRYQ, SwALZHEQ, SwDEMENQ, SwMEMRYE, SwALZHEE, SwDEMENE, SwMEMRYF, SwALZHEF, and SwDEMENF, give this information for the Respondent's spouse or partner.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S4MEMRY is taken from the Wave 4 spouse's R4MEMRY variable.

Please see the "Change in Health" variables as well. Included there are RwMEMRYS, RwALZHES, and RwDEMENS, which measure whether the disease is new in a particular wave, i.e., reported as new since the last interview.

## Cross Wave Differences in Original HRS Data

Respondents are first asked about memory-related disease in Wave 4. At a Respondent's first interview at or after Wave 4, the question asks:

"Has a doctor ever told you that you have a memory-related disease?"

From Wave 6 forward, if the person answering the questions is new, the question is asked as though it were the first interview, regardless of what had been reported at prior interviews. Thus if the prior interview was given by the Respondent and the current is by proxy, or vice versa, or if both interviews are by proxy but conducted with different people, then this is treated like a first interview and the ever question wording is used.

Until Wave 9, the question is not asked if the appropriate preloaded variable indicates that the Respondent has said yes to this condition at a prior interview. If the preload indicates that the Respondent has not yet reported a memory-related disease then the question wording is:

"Since we last talked to you, that is since [last interview date], has a doctor told you that you have a memory-related disease?"

The definition of "doctor" in Wave 6 was: Medical doctors include specialists such as, Dermatologists, Psychiatrists, Ophthalmologists, as well as general practitioners, and Osteopaths. Do not include Chiropractors, Dentists, or Nurses/Nurse Practitioners.

In Wave 7 this was expanded as follows: Medical doctors include specialists such as Dermatologists, Psychiatrists, Ophthalmologists, Osteopaths, Cardiologists, as well as family doctors, internists and physicians' assistants. Do not include Chiropractors, Dentists, or Nurses/Nurse Practitioners.

In Wave 9, all Respondents were asked this question and were given the opportunity to dispute answers given in previous waves.

In Wave 10, the health questionnaire changed. Respondents are now asked if they have ever been told they have Alzheimer's disease or dementia rather than memory-related disease as in previous waves.

## HRS Variables Used

HRS 1998:	
F1193	B10D. MEMORY-RELATED DISEASE
HRS 2000:	
G1326	B10D. MEMORY-RELATED DISEASE
G262	PR262.PREV WAVE MEMORY DISEASE
G753	CS22Y30.PREVIOUS WAVE INTERV
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HA010	CURRENT - WAVE PROXY
HC069	MEMORY RELATED DISEASE
HZ076	R EVER INTERVIEWED
HZ095	PREV WAVE IW SELF/PROXY
HZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JA010	CURRENT - WAVE PROXY
JC069	MEMORY RELATED DISEASE
JZ076	R EVER INTERVIEWED
JZ095	PREV WAVE IW SELF/PROXY
JZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KA010	CURRENT - WAVE PROXY
KC069	MEMORY RELATED DISEASE
KZ076	R EVER INTERVIEWED
KZ095	PREV WAVE IW SELF/PROXY
KZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LA010	CURRENT - WAVE PROXY
LC069	MEMORY RELATED DISEASE
LZ076	R EVER INTERVIEWED
LZ095	PREV WAVE IW SELF/PROXY
LZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MA010	CURRENT - WAVE PROXY
MC272	EVER HAD ALZHEIMERS
MC273	EVER HAD DEMENTIA
MZ076	R EVER INTERVIEWED
MZ095	PREV WAVE IW SELF/PROXY
MZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NA010	CURRENT - WAVE PROXY
NC272	EVER HAD ALZHEIMERS
NC273	EVER HAD DEMENTIA
NZ076	R EVER INTERVIEWED
NZ095	PREV WAVE IW SELF/PROXY

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NZ117	PREV WAVE R HAS MEMORY DISEASE
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OA010	CURRENT - WAVE PROXY
OC272	EVER HAD ALZHEIMERS
OC273	EVER HAD DEMENTIA
OZ076	R EVER INTERVIEWED
OZ095	PREV WAVE IW SELF/PROXY
OZ117	PREV WAVE R HAS MEMORY DISEASE



<b>BMI</b>
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Wave	Variable	Label	Type
1	R1BMI	R1BMI:W1 Body Mass Index=kg/m2	Cont
2	R2BMI	R2BMI:W2 Body Mass Index=kg/m2	Cont
3	R3BMI	R3BMI:W3 Body Mass Index=kg/m2	Cont
4	R4BMI	R4BMI:W4 Body Mass Index=kg/m2	Cont
5	R5BMI	R5BMI:W5 Body Mass Index=kg/m2	Cont
6	R6BMI	R6BMI:W6 Body Mass Index=kg/m2	Cont
7	R7BMI	R7BMI:W7 Body Mass Index=kg/m2	Cont
8	R8BMI	R8BMI:W8 Body Mass Index=kg/m2	Cont
9	R9BMI	R9BMI:W9 Body Mass Index=kg/m2	Cont
10	R10BMI	R10BMI:W10 Body Mass Index=kg/m2	Cont
11	R11BMI	R11BMI:W11 Body Mass Index=kg/m2	Cont
12	R12BMI	R12BMI:W12 Body Mass Index=kg/m2	Cont
1	S1BMI	S1BMI:W1 Body Mass Index=kg/m2	Cont
2	S2BMI	S2BMI:W2 Body Mass Index=kg/m2	Cont
3	S3BMI	S3BMI:W3 Body Mass Index=kg/m2	Cont
4	S4BMI	S4BMI:W4 Body Mass Index=kg/m2	Cont
5	S5BMI	S5BMI:W5 Body Mass Index=kg/m2	Cont
6	S6BMI	S6BMI:W6 Body Mass Index=kg/m2	Cont
7	S7BMI	S7BMI:W7 Body Mass Index=kg/m2	Cont
8	S8BMI	S8BMI:W8 Body Mass Index=kg/m2	Cont
9	S9BMI	S9BMI:W9 Body Mass Index=kg/m2	Cont
10	S10BMI	S10BMI:W10 Body Mass Index=kg/m2	Cont
11	S11BMI	S11BMI:W11 Body Mass Index=kg/m2	Cont
12	S12BMI	S12BMI:W12 Body Mass Index=kg/m2	Cont
1	R1HEIGHT	R1HEIGHT:W1 Height in meters	Cont
2	R2HEIGHT	R2HEIGHT:W2 Height in meters	Cont
3	R3HEIGHT	R3HEIGHT:W3 Height in meters	Cont
4	R4HEIGHT	R4HEIGHT:W4 Height in meters	Cont
5	R5HEIGHT	R5HEIGHT:W5 Height in meters	Cont
6	R6HEIGHT	R6HEIGHT:W6 Height in meters	Cont
7	R7HEIGHT	R7HEIGHT:W7 Height in meters	Cont
8	R8HEIGHT	R8HEIGHT:W8 Height in meters	Cont
9	R9HEIGHT	R9HEIGHT:W9 Height in meters	Cont
10	R10HEIGHT	R10HEIGHT:W10 Height in meters	Cont
11	R11HEIGHT	R11HEIGHT:W11 Height in meters	Cont
12	R12HEIGHT	R12HEIGHT:W12 Height in meters	Cont
1	S1HEIGHT	S1HEIGHT:W1 Height in meters	Cont
2	S2HEIGHT	S2HEIGHT:W2 Height in meters	Cont
3	S3HEIGHT	S3HEIGHT:W3 Height in meters	Cont
4	S4HEIGHT	S4HEIGHT:W4 Height in meters	Cont
5	S5HEIGHT	S5HEIGHT:W5 Height in meters	Cont
6	S6HEIGHT	S6HEIGHT:W6 Height in meters	Cont
7	S7HEIGHT	S7HEIGHT:W7 Height in meters	Cont
8	S8HEIGHT	S8HEIGHT:W8 Height in meters	Cont
9	S9HEIGHT	S9HEIGHT:W9 Height in meters	Cont
10	S10HEIGHT	S10HEIGHT:W10 Height in meters	Cont
11	S11HEIGHT	S11HEIGHT:W11 Height in meters	Cont
12	S12HEIGHT	S12HEIGHT:W12 Height in meters	Cont
1	R1WEIGHT	R1WEIGHT:W1 Weight in kilograms	Cont
2	R2WEIGHT	R2WEIGHT:W2 Weight in kilograms	Cont
3	R3WEIGHT	R3WEIGHT:W3 Weight in kilograms	Cont
4	R4WEIGHT	R4WEIGHT:W4 Weight in kilograms	Cont
5	R5WEIGHT	R5WEIGHT:W5 Weight in kilograms	Cont
6	R6WEIGHT	R6WEIGHT:W6 Weight in kilograms	Cont
7	R7WEIGHT	R7WEIGHT:W7 Weight in kilograms	Cont
8	R8WEIGHT	R8WEIGHT:W8 Weight in kilograms	Cont
9	R9WEIGHT	R9WEIGHT:W9 Weight in kilograms	Cont
10	R10WEIGHT	R10WEIGHT:W10 Weight in kilograms	Cont
11	R11WEIGHT	R11WEIGHT:W11 Weight in kilograms	Cont
12	R12WEIGHT	R12WEIGHT:W12 Weight in kilograms	Cont
1	S1WEIGHT	S1WEIGHT:W1 Weight in kilograms	Cont

2	S2WEIGHT	S2WEIGHT:W2 Weight in kilograms	Cont
3	S3WEIGHT	S3WEIGHT:W3 Weight in kilograms	Cont
4	S4WEIGHT	S4WEIGHT:W4 Weight in kilograms	Cont
5	S5WEIGHT	S5WEIGHT:W5 Weight in kilograms	Cont
6	S6WEIGHT	S6WEIGHT:W6 Weight in kilograms	Cont
7	S7WEIGHT	S7WEIGHT:W7 Weight in kilograms	Cont
8	S8WEIGHT	S8WEIGHT:W8 Weight in kilograms	Cont
9	S9WEIGHT	S9WEIGHT:W9 Weight in kilograms	Cont
10	S10WEIGHT	S10WEIGHT:W10 Weight in kilograms	Cont
11	S11WEIGHT	S11WEIGHT:W11 Weight in kilograms	Cont
12	S12WEIGHT	S12WEIGHT:W12 Weight in kilograms	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BMI	12652	27.10	5.18	12.8	102.7
R2BMI	19434	26.45	4.99	12.6	92.2
R3BMI	17773	26.53	5.11	10.8	75.5
R4BMI	21099	26.83	5.24	9.6	74.5
R5BMI	19290	27.04	5.37	11.5	75.5
R6BMI	17818	27.17	5.44	9.5	70.9
R7BMI	19750	27.45	5.67	9.6	71.3
R8BMI	18175	27.84	5.85	10.6	82.7
R9BMI	16983	27.99	5.90	10.6	74.4
R10BMI	21602	28.50	6.20	7.0	79.1
R11BMI	20244	28.50	6.23	8.9	83.0
R12BMI	18442	28.57	6.21	11.0	76.6
S1BMI	9900	27.03	5.00	12.8	102.7
S2BMI	12958	26.61	4.82	12.6	92.2
S3BMI	11767	26.73	4.88	10.8	75.5
S4BMI	13796	27.07	5.04	12.6	74.5
S5BMI	12552	27.29	5.16	11.5	75.5
S6BMI	11429	27.45	5.19	9.5	70.9
S7BMI	12749	27.67	5.38	12.1	65.7
S8BMI	11558	28.03	5.57	10.6	82.7
S9BMI	10517	28.19	5.62	11.2	66.2
S10BMI	13226	28.63	5.89	9.7	79.1
S11BMI	12288	28.64	5.98	9.4	83.0
S12BMI	10833	28.76	5.95	11.5	76.6
R1HEIGHT	12652	1.70	0.10	0.9	2.1
R2HEIGHT	19603	1.68	0.10	0.9	2.3
R3HEIGHT	17962	1.68	0.10	0.9	2.3
R4HEIGHT	21347	1.69	0.10	0.9	2.3
R5HEIGHT	19550	1.69	0.10	0.9	2.3
R6HEIGHT	18130	1.69	0.10	0.9	2.1
R7HEIGHT	20068	1.69	0.10	0.9	2.3
R8HEIGHT	18450	1.68	0.10	1.2	2.3
R9HEIGHT	17199	1.68	0.10	0.9	2.3
R10HEIGHT	21877	1.68	0.10	0.9	2.3
R11HEIGHT	20438	1.68	0.10	1.0	2.3
R12HEIGHT	18660	1.68	0.10	1.0	2.3
S1HEIGHT	9900	1.70	0.10	0.9	2.1
S2HEIGHT	13078	1.70	0.10	0.9	2.1
S3HEIGHT	11908	1.70	0.10	0.9	2.1

S4HEIGHT	13968	1.70	0.10	0.9	2.1
S5HEIGHT	12720	1.70	0.10	0.9	2.1
S6HEIGHT	11622	1.70	0.10	0.9	2.1
S7HEIGHT	12940	1.70	0.10	0.9	2.3
S8HEIGHT	11724	1.70	0.10	1.2	2.3
S9HEIGHT	10634	1.70	0.10	1.2	2.2
S10HEIGHT	13393	1.70	0.10	1.0	2.3
S11HEIGHT	12400	1.69	0.10	1.0	2.3
S12HEIGHT	10961	1.69	0.10	1.0	2.3
R1WEIGHT	12652	78.21	16.77	36.3	181.4
R2WEIGHT	19464	75.04	16.39	31.8	179.2
R3WEIGHT	17798	75.32	16.77	26.8	176.9
R4WEIGHT	21133	76.47	17.27	22.7	181.4
R5WEIGHT	19316	77.11	17.61	31.3	181.4
R6WEIGHT	17849	77.56	17.85	29.5	181.4
R7WEIGHT	19809	78.48	18.45	25.4	181.4
R8WEIGHT	18189	78.90	18.76	29.5	181.4
R9WEIGHT	16998	79.19	18.97	22.7	181.4
R10WEIGHT	21742	80.84	19.64	22.7	181.4
R11WEIGHT	20348	80.61	19.74	22.7	181.4
R12WEIGHT	18515	80.64	19.72	30.8	181.4
S1WEIGHT	9900	78.53	16.65	37.6	181.4
S2WEIGHT	12966	76.84	16.24	35.4	179.2
S3WEIGHT	11773	77.28	16.44	26.8	176.9
S4WEIGHT	13805	78.47	17.03	22.7	181.4
S5WEIGHT	12561	79.20	17.32	31.3	181.4
S6WEIGHT	11444	79.84	17.49	31.8	181.4
S7WEIGHT	12780	80.51	18.13	27.2	181.4
S8WEIGHT	11566	80.97	18.43	29.5	181.4
S9WEIGHT	10527	81.32	18.72	22.7	181.4
S10WEIGHT	13333	82.53	19.33	27.2	181.4
S11WEIGHT	12366	82.38	19.48	22.7	181.4
S12WEIGHT	10887	82.58	19.44	31.8	181.4

## How Constructed

RwBMI, RwHEIGHT, and RwWEIGHT are the Respondent's body mass index, height, and weight. SwBMI, SwHEIGHT, and SwWEIGHT are this information for the Respondent's spouse or partner.

BMI is weight divided by the square height  $\frac{weight}{height^2}$ .

Height, given in feet and inches, is converted to meters. Weight is converted to kilograms. Height is frequently missing from Wave 3 forward. The Wave 1 or 2 height is used to fill missing heights in later waves.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3BMI is taken from the Wave 3 spouse's R3BMI.

## Cross Wave Differences in Original HRS Data

Questions ask the Respondent's weight in pounds at each wave. The Respondent's height in feet and inches is asked of everyone in Waves 1 and 2H. In Wave 2A, height is asked in inches. Beginning in Wave 3, only new interviewees are asked.

### HRS Variables Used

HRS 1992:	
V515	B41:WEIGHT :IMP
V517	B43:HEIGHT-FT :IMP
V518	B43:HEIGHT-INCHES :IMP
AHEAD 1993:	
B304	B22. WEIGHT NOW
B306	B23. HEIGHT IN INCHES
HRS 1994:	
W462	B45.WEIGHT
W463	B45a.HEIGHT-FEET
W464	B45a.HEIGHT-INCHES
AHEAD 1995:	
D954	B22. WEIGHT W2
D958	B22D. HEIGHT FEET
D959	B22E. HEIGHT INCHES
HRS 1996:	
E954	B22. WEIGHT W2
E958	B22D. HEIGHT FEET
E959	B22E. HEIGHT INCHES
HRS 1998:	
F1291	B22. WEIGHT CURRENT WAVE
F1295	B22D. HEIGHT FEET
F1296	B22E. HEIGHT INCHES
HRS 2000:	
G1425	B22. WEIGHT CURRENT WAVE
G1428	B22D.HEIGHT FEET
G1429	B22E.HEIGHT INCHES
HRS 2002:	
HC139	WEIGHT IN POUNDS
HC141	HEIGHT FEET
HC142	HEIGHT INCHES
HRS 2004:	
JC139	WEIGHT IN POUNDS
JC141	HEIGHT FEET
JC142	HEIGHT INCHES
HRS 2006:	
KC139	WEIGHT IN POUNDS
KC141	HEIGHT FEET
KC142	HEIGHT INCHES
HRS 2008:	
LC139	WEIGHT IN POUNDS
LC141	HEIGHT FEET
LC142	HEIGHT INCHES
HRS 2010:	
MC139	WEIGHT IN POUNDS
MC141	HEIGHT FEET
MC142	HEIGHT INCHES

HRS 2012:	
NC139	WEIGHT IN POUNDS
NC141	HEIGHT FEET
NC142	HEIGHT INCHES
HRS 2014:	
OC139	WEIGHT IN POUNDS
OC141	HEIGHT FEET
OC142	HEIGHT INCHES

### Back problems

Wave	Variable	Label	Type
1	R1BACK	R1BACK:W1 R had back problems	Categ
2	R2BACK	R2BACK:W2 R had back problems	Categ
3	R3BACK	R3BACK:W3 R had back problems	Categ
4	R4BACK	R4BACK:W4 R had back problems	Categ
5	R5BACK	R5BACK:W5 R had back problems	Categ
6	R6BACK	R6BACK:W6 R had back problems	Categ
7	R7BACK	R7BACK:W7 R had back problems	Categ
8	R8BACK	R8BACK:W8 R had back problems	Categ
9	R9BACK	R9BACK:W9 R had back problems	Categ
10	R10BACK	R10BACK:W10 R had back problems	Categ
11	R11BACK	R11BACK:W11 R had back problems	Categ
12	R12BACK	R12BACK:W12 R had back problems	Categ
1	S1BACK	S1BACK:W1 S had back problems	Categ
2	S2BACK	S2BACK:W2 S had back problems	Categ
3	S3BACK	S3BACK:W3 S had back problems	Categ
4	S4BACK	S4BACK:W4 S had back problems	Categ
5	S5BACK	S5BACK:W5 S had back problems	Categ
6	S6BACK	S6BACK:W6 S had back problems	Categ
7	S7BACK	S7BACK:W7 S had back problems	Categ
8	S8BACK	S8BACK:W8 S had back problems	Categ
9	S9BACK	S9BACK:W9 S had back problems	Categ
10	S10BACK	S10BACK:W10 S had back problems	Categ
11	S11BACK	S11BACK:W11 S had back problems	Categ
12	S12BACK	S12BACK:W12 S had back problems	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BACK	12652	0.34	0.47	0.0	1.0
R2BACK	19574	0.18	0.39	0.0	1.0
R3BACK	17976	0.32	0.46	0.0	1.0
R4BACK	5092	0.37	0.48	0.0	1.0
R5BACK	19566	0.33	0.47	0.0	1.0
R6BACK	231	0.41	0.49	0.0	1.0
R7BACK	20100	0.37	0.48	0.0	1.0
R8BACK	213	0.38	0.49	0.0	1.0
R9BACK	17195	0.36	0.48	0.0	1.0
R10BACK	6446	0.43	0.50	0.0	1.0
R11BACK	20503	0.39	0.49	0.0	1.0
R12BACK	182	0.49	0.50	0.0	1.0
S1BACK	9900	0.34	0.47	0.0	1.0
S2BACK	13057	0.20	0.40	0.0	1.0
S3BACK	11907	0.31	0.46	0.0	1.0
S4BACK	3505	0.35	0.48	0.0	1.0
S5BACK	12725	0.32	0.47	0.0	1.0
S6BACK	214	0.42	0.49	0.0	1.0
S7BACK	12962	0.36	0.48	0.0	1.0
S8BACK	204	0.37	0.48	0.0	1.0
S9BACK	10638	0.35	0.48	0.0	1.0
S10BACK	4104	0.41	0.49	0.0	1.0
S11BACK	12461	0.38	0.48	0.0	1.0
S12BACK	171	0.47	0.50	0.0	1.0

## Categorical Variable Codes

Value	R1BACK	R2BACK	R3BACK	R4BACK	R5BACK	R6BACK	R7BACK
.A=Asked prv wave				16290		17932	
.D=DK/NA		1	9		11		27
.M=Oth missing		60	2	1		1	
.R=RF		7	4	1	2	1	2
0.No	8313	15953	12313	3232	13091	136	12747
1.Yes	4339	3621	5663	1860	6475	95	7353

Value	R8BACK	R9BACK	R10BACK	R11BACK	R12BACK
.A=Asked prv wave	18255		15584		18564
.D=DK/NA		20	3	48	1
.M=Oth missing	1			1	
.R=RF		2	1	2	
0.No	132	10954	3649	12475	93
1.Yes	81	6241	2797	8028	89

Value	S1BACK	S2BACK	S3BACK	S4BACK	S5BACK	S6BACK	S7BACK
.A=Asked prv wave				10471		11423	
.D=DK/NA		1	4		4		10
.M=Oth missing		23	2	1		1	
.R=RF		7	2	1	1	1	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	6577	10435	8258	2267	8629	124	8302
1.Yes	3323	2622	3649	1238	4096	90	4660

Value	S8BACK	S9BACK	S10BACK	S11BACK	S12BACK
.A=Asked prv wave	11530		9406		10855
.D=DK/NA		6	2	26	1
.M=Oth missing	1			1	
.R=RF		2	1		
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	128	6922	2408	7787	91
1.Yes	76	3716	1696	4674	80

## How Constructed

RwBACK indicates whether the Respondent reports back problems. SwBACK is the same information for the Respondent's spouse or partner.

Except in Wave 2, the derivation simply recodes the HRS raw variable for missing values into a yes/no indicator and sets missing values to missing codes. In Wave 2, there is a series of variables that list health problems by code. If any of these variables indicates back problems RwBACK is set to "yes;" if not, it is set to "no."

Note that this question is asked of re-interviewees every other wave beginning in Wave 4. When the question is skipped because it is a re-interview in an alternate year, RwBACK is set to .A, asked in previous wave. For odd numbered waves beginning in Wave 5, the question is asked of everyone.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3BACK is taken from the Wave 3 spouse's R3BACK.

## Cross Wave Differences in Original HRS Data

The wording of this question varies across waves. In Waves 1 and 2H, the question asks:

"Do you have any of the following health problems? Problems with your back?"

In Wave 2A, the question asks:

"Do you have any other major health problems which you haven't told me about?"

Then following are lists of different health problems.

Beginning in Wave 3, the question asks:

"[Since we last talked to you in (previous interview month)] Have you had any of the following persistent or troublesome problems? Back pain or problems?"

The answers can be yes or no in all waves. In all waves except Wave 2, the answers are coded in a single variable for back problems. In Wave 2, the answers are given in a series of variables that code which health problems the Respondent reported. The code for back problems is 2 in Wave 2H and 112 in Wave 2A.

In every other wave beginning with Wave 4, only new Respondents are asked the question. In these waves, e.g., Waves 4, 6, 8, and 10, it is skipped for re-interviewees. In the other waves, e.g., Waves 5, 7, 9 and 11, the question is asked of everyone.

## HRS Variables Used

HRS 1992:	
V431	B26B:PROBLEMS WITH B:IMP
AHEAD 1993:	
B294	B18. OTHER HEALTH PROBLEMS
B295A1	B18a. OTHER HEALTH PROBLEM-1
B295A2	B18a. OTHER HEALTH PROBLEM-2
HRS 1994:	
W396	B25a-g.HEALTH PROBLEMS
W397	B25a-g.HEALTH PROBLEMS
W398	B25a-g.HEALTH PROBLEMS
W399	B25a-g.HEALTH PROBLEMS
W400	B25a-g.HEALTH PROBLEMS
W401	B25a-g.HEALTH PROBLEMS
AHEAD 1995:	
D968	B23G. SYMPTOMS-BACK PAIN
HRS 1996:	
E970	B23G. SYMPTOMS-BACK PAIN
HRS 1998:	
F1307	B23G. SYMPTOMS-BACK PAIN
HRS 2000:	
G1440	B23G.SYMPTOMS-BACK PAIN
HRS 2002:	
HC146	BACK PAIN OR PROBLEMS
HRS 2004:	
JC146	BACK PAIN OR PROBLEMS
HRS 2006:	
KC146	BACK PAIN OR PROBLEMS



HRS 2008:	
LC146	BACK PAIN OR PROBLEMS
HRS 2010:	
MC146	BACK PAIN OR PROBLEMS
HRS 2012:	
NC146	BACK PAIN OR PROBLEMS
HRS 2014:	
OC146	BACK PAIN OR PROBLEMS

## Ulcer

Wave	Variable	Label	Type
1	R1ULCER	R1ULCER:W1 Rs had ulcers	Categ
2	R2ULCER	R2ULCER:W2 Rs had ulcers	Categ
1	S1ULCER	S1ULCER:W1 Rs had ulcers	Categ
2	S2ULCER	S2ULCER:W2 Rs had ulcers	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ULCER	12652	0.09	0.29	0.0	1.0
R2ULCER	19574	0.06	0.23	0.0	1.0
S1ULCER	9900	0.09	0.28	0.0	1.0
S2ULCER	13057	0.06	0.23	0.0	1.0

### Categorical Variable Codes

Value	R1ULCER	R2ULCER
.D=DK/NA		1
.M=Oth missing		60
.R=RF		7
0.No	11454	18456
1.Yes	1198	1118

Value	S1ULCER	S2ULCER
.D=DK/NA		1
.M=Oth missing		23
.R=RF		7
.U=Unmarried	2373	5970
.V=Spouse NR	379	584
0.No	9025	12321
1.Yes	875	736

### How Constructed

RwULCER indicates whether the Respondent reports any stomach or intestinal ulcers. SwULCER is the same information for the Respondent's spouse or partner.

The Wave 1 derivation simply recodes the HRS raw variable for missing values into a yes/no indicator and sets missing values to missing codes. In Wave 2, there is a series of variables that list health problems by code. If any of these variables indicates stomach or intestinal ulcers RwULCER is set to "yes;" if not, it is set to "no."

The question is not asked after Wave 2.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S2ULCER is taken from the Wave 2 spouse's R2ULCER.

### Cross Wave Differences in Original HRS Data

The question about ulcers is asked only in Waves 1 and 2:

In Waves 1 and 2H, the question asks:

"Do you have any of the following health problems? Stomach or intestinal ulcers?"

In waves 2A, the question asks:

"Do you have any other major health problems which you haven't told me about?"

Then following are lists of health problems.

The answers can be "yes" or "no" in these waves. In Wave 1 the answers are coded in a single variable for ulcers. In Wave 2, the answers are given in a series of variables that code which health problems the Respondent reported. The code for ulcers is 5 in Wave 2H, and 151 in Wave 2A.

### HRS Variables Used

HRS 1992:	
V434	B26E:STOMCH/INTEST U:IMP
AHEAD 1993:	
B294	B18. OTHER HEALTH PROBLEMS
B295A1	B18a. OTHER HEALTH PROBLEM-1
B295A2	B18a. OTHER HEALTH PROBLEM-2
HRS 1994:	
W396	B25a-g.HEALTH PROBLEMS
W397	B25a-g.HEALTH PROBLEMS
W398	B25a-g.HEALTH PROBLEMS
W399	B25a-g.HEALTH PROBLEMS
W400	B25a-g.HEALTH PROBLEMS
W401	B25a-g.HEALTH PROBLEMS

### Health behaviors: Physical Activity or Exercise

Wave	Variable	Label	Type
1	R1VIGACT	R1VIGACT:W1 R Wtr vigorous phys act 3+/wk	Categ
2	R2VIGACT	R2VIGACT:W2 R Wtr vigorous phys act 3+/wk	Categ
3	R3VIGACT	R3VIGACT:W3 R Wtr vigorous phys act 3+/wk	Categ
4	R4VIGACT	R4VIGACT:W4 R Wtr vigorous phys act 3+/wk	Categ
5	R5VIGACT	R5VIGACT:W5 R Wtr vigorous phys act 3+/wk	Categ
6	R6VIGACT	R6VIGACT:W6 R Wtr vigorous phys act 3+/wk	Categ
1	S1VIGACT	S1VIGACT:W1 S Wtr vigorous phys act 3+/wk	Categ
2	S2VIGACT	S2VIGACT:W2 S Wtr vigorous phys act 3+/wk	Categ
3	S3VIGACT	S3VIGACT:W3 S Wtr vigorous phys act 3+/wk	Categ
4	S4VIGACT	S4VIGACT:W4 S Wtr vigorous phys act 3+/wk	Categ
5	S5VIGACT	S5VIGACT:W5 S Wtr vigorous phys act 3+/wk	Categ
6	S6VIGACT	S6VIGACT:W6 S Wtr vigorous phys act 3+/wk	Categ
1	R1VGACTF	R1VGACTF:W1 R Freq vigorous phys activ	Categ
1	S1VGACTF	S1VGACTF:W1 S Freq vigorous phys activ	Categ
1	R1HSWRKF	R1HSWRKF:W1 R Freq heavy housework	Categ
1	S1HSWRKF	S1HSWRKF:W1 S Freq heavy housework	Categ
2	R2VGACTN	R2VGACTN:W2 R # times/per vigor phys act	Cont
2	S2VGACTN	S2VGACTN:W2 S # times/per vigor phys act	Cont
2	R2VGACTP	R2VGACTP:W2 R Period vigor phys activ	Categ
2	S2VGACTP	S2VGACTP:W2 S Period vigor phys activ	Categ
1	R1LHTACT	R1LHTACT:W1 R Wtr light phys activ 3+/wk	Categ
2	R2LHTACT	R2LHTACT:W2 R Wtr light phys activ 3+/wk	Categ
1	S1LHTACT	S1LHTACT:W1 S Wtr light phys activ 3+/wk	Categ
2	S2LHTACT	S2LHTACT:W2 S Wtr light phys activ 3+/wk	Categ
1	R1LTACTF	R1LTACTF:W1 R Freq light phys activities	Categ
1	S1LTACTF	S1LTACTF:W1 S Freq light phys activities	Categ
2	R2LTACTN	R2LTACTN:W2 R # times/per light phys act	Cont
2	S2LTACTN	S2LTACTN:W2 S # times/per light phys act	Cont
2	R2LTACTP	R2LTACTP:W2 R Period light phys activ	Categ
2	S2LTACTP	S2LTACTP:W2 S Period light phys activ	Categ
7	R7VGACTX	R7VGACTX:W7 R Freq vigorous phys activ {finer scale}	Categ
8	R8VGACTX	R8VGACTX:W8 R Freq vigorous phys activ {finer scale}	Categ
9	R9VGACTX	R9VGACTX:W9 R Freq vigorous phys activ {finer scale}	Categ
10	R10VGACTX	R10VGACTX:W10 R Freq vigorous phys activ {finer scale}	Categ
11	R11VGACTX	R11VGACTX:W11 R Freq vigorous phys activ {finer scale}	Categ
12	R12VGACTX	R12VGACTX:W12 R Freq vigorous phys activ {finer scale}	Categ
7	S7VGACTX	S7VGACTX:W7 S Freq vigorous phys activ {finer scale}	Categ
8	S8VGACTX	S8VGACTX:W8 S Freq vigorous phys activ {finer scale}	Categ
9	S9VGACTX	S9VGACTX:W9 S Freq vigorous phys activ {finer scale}	Categ
10	S10VGACTX	S10VGACTX:W10 S Freq vigorous phys activ {finer scale}	Categ
11	S11VGACTX	S11VGACTX:W11 S Freq vigorous phys activ {finer scale}	Categ
12	S12VGACTX	S12VGACTX:W12 S Freq vigorous phys activ {finer scale}	Categ
7	R7MDACTX	R7MDACTX:W7 R Freq moderate phys activ {finer scale}	Categ
8	R8MDACTX	R8MDACTX:W8 R Freq moderate phys activ {finer scale}	Categ
9	R9MDACTX	R9MDACTX:W9 R Freq moderate phys activ {finer scale}	Categ
10	R10MDACTX	R10MDACTX:W10 R Freq moderate phys activ {finer scale}	Categ

11	R11MDACTX	R11MDACTX:W11 R Freq moderate phys activ {finer scale}	Categ
12	R12MDACTX	R12MDACTX:W12 R Freq moderate phys activ {finer scale}	Categ
7	S7MDACTX	S7MDACTX:W7 S Freq moderate phys activ {finer scale}	Categ
8	S8MDACTX	S8MDACTX:W8 S Freq moderate phys activ {finer scale}	Categ
9	S9MDACTX	S9MDACTX:W9 S Freq moderate phys activ {finer scale}	Categ
10	S10MDACTX	S10MDACTX:W10 S Freq moderate phys activ {finer scale}	Categ
11	S11MDACTX	S11MDACTX:W11 S Freq moderate phys activ {finer scale}	Categ
12	S12MDACTX	S12MDACTX:W12 S Freq moderate phys activ {finer scale}	Categ
7	R7LTACTX	R7LTACTX:W7 R Freq light phys activ {finer scale}	Categ
8	R8LTACTX	R8LTACTX:W8 R Freq light phys activ {finer scale}	Categ
9	R9LTACTX	R9LTACTX:W9 R Freq light phys activ {finer scale}	Categ
10	R10LTACTX	R10LTACTX:W10 R Freq light phys activ {finer scale}	Categ
11	R11LTACTX	R11LTACTX:W11 R Freq light phys activ {finer scale}	Categ
12	R12LTACTX	R12LTACTX:W12 R Freq light phys activ {finer scale}	Categ
7	S7LTACTX	S7LTACTX:W7 S Freq light phys activ {finer scale}	Categ
8	S8LTACTX	S8LTACTX:W8 S Freq light phys activ {finer scale}	Categ
9	S9LTACTX	S9LTACTX:W9 S Freq light phys activ {finer scale}	Categ
10	S10LTACTX	S10LTACTX:W10 S Freq light phys activ {finer scale}	Categ
11	S11LTACTX	S11LTACTX:W11 S Freq light phys activ {finer scale}	Categ
12	S12LTACTX	S12LTACTX:W12 S Freq light phys activ {finer scale}	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1VIGACT	12652	0.19	0.40	0.0	1.0
R2VIGACT	11082	0.22	0.41	0.0	1.0
R3VIGACT	17982	0.42	0.49	0.0	1.0
R4VIGACT	21373	0.42	0.49	0.0	1.0
R5VIGACT	19573	0.42	0.49	0.0	1.0
R6VIGACT	18158	0.40	0.49	0.0	1.0
S1VIGACT	9900	0.19	0.39	0.0	1.0
S2VIGACT	8468	0.23	0.42	0.0	1.0
S3VIGACT	11910	0.47	0.50	0.0	1.0
S4VIGACT	13973	0.46	0.50	0.0	1.0
S5VIGACT	12725	0.47	0.50	0.0	1.0
S6VIGACT	11633	0.45	0.50	0.0	1.0
R1VGACTF	12652	2.90	1.37	1.0	5.0
S1VGACTF	9900	2.92	1.38	1.0	5.0
R1HSWRKF	12652	2.90	1.37	1.0	5.0
S1HSWRKF	9900	2.92	1.38	1.0	5.0
R2VGACTN	11137	7.29	76.17	0.0	999.0
S2VGACTN	8514	7.98	80.91	0.0	999.0
R2VGACTP	5833	3.68	3.11	2.0	11.0
S2VGACTP	4545	3.69	3.11	2.0	11.0
R1LHTACT	12652	0.52	0.50	0.0	1.0
R2LHTACT	11150	0.68	0.46	0.0	1.0

S1LHTACT	9900	0.53	0.50	0.0	1.0
S2LHTACT	8530	0.69	0.46	0.0	1.0
R1LTACTF	12652	2.02	1.35	1.0	5.0
S1LTACTF	9900	1.99	1.32	1.0	5.0
R2LTACTN	11168	19.33	122.71	0.0	999.0
S2LTACTN	8544	19.98	125.24	0.0	999.0
R2LTACTP	9546	5.54	4.31	2.0	11.0
S2LTACTP	7404	5.55	4.32	2.0	11.0
R7VGACTX	20109	4.07	1.30	1.0	5.0
R8VGACTX	18445	4.08	1.32	1.0	5.0
R9VGACTX	17207	4.07	1.31	1.0	5.0
R10VGACTX	21985	3.96	1.32	1.0	5.0
R11VGACTX	20489	3.94	1.32	1.0	5.0
R12VGACTX	18667	3.94	1.32	1.0	5.0
S7VGACTX	12959	3.93	1.34	1.0	5.0
S8VGACTX	11724	3.94	1.36	1.0	5.0
S9VGACTX	10637	3.92	1.35	1.0	5.0
S10VGACTX	13492	3.83	1.34	1.0	5.0
S11VGACTX	12449	3.81	1.34	1.0	5.0
S12VGACTX	10985	3.82	1.34	1.0	5.0
R7MDACTX	20116	2.99	1.30	1.0	5.0
R8MDACTX	18454	2.92	1.37	1.0	5.0
R9MDACTX	17208	2.96	1.36	1.0	5.0
R10MDACTX	22001	3.06	1.32	1.0	5.0
R11MDACTX	20520	3.03	1.31	1.0	5.0
R12MDACTX	18689	3.07	1.33	1.0	5.0
S7MDACTX	12963	2.86	1.23	1.0	5.0
S8MDACTX	11727	2.78	1.31	1.0	5.0
S9MDACTX	10641	2.83	1.30	1.0	5.0
S10MDACTX	13503	2.93	1.26	1.0	5.0
S11MDACTX	12463	2.91	1.26	1.0	5.0
S12MDACTX	10999	2.95	1.27	1.0	5.0
R7LTACTX	20118	2.69	1.11	1.0	5.0
R8LTACTX	18459	2.62	1.18	1.0	5.0
R9LTACTX	17206	2.64	1.19	1.0	5.0
R10LTACTX	22009	2.73	1.16	1.0	5.0
R11LTACTX	20518	2.74	1.16	1.0	5.0
R12LTACTX	18720	2.77	1.16	1.0	5.0
S7LTACTX	12967	2.60	1.06	1.0	5.0
S8LTACTX	11729	2.51	1.13	1.0	5.0
S9LTACTX	10642	2.53	1.14	1.0	5.0
S10LTACTX	13501	2.64	1.11	1.0	5.0
S11LTACTX	12467	2.63	1.11	1.0	5.0
S12LTACTX	11019	2.67	1.12	1.0	5.0

## Categorical Variable Codes

Value	R1VIGACT	R2VIGACT	R3VIGACT	R4VIGACT	R5VIGACT	R6VIGACT
.D=DK/NA		25	5	9	5	7
.M=Oth missing		309	3			
.Q=Not asked this wv		8222				
.R=RF		4	1	2	1	
0.No	10199	8689	10352	12337	11368	10884
1.Yes	2453	2393	7630	9036	8205	7274

Value	S1VIGACT	S2VIGACT	S3VIGACT	S4VIGACT	S5VIGACT	S6VIGACT
.D=DK/NA		16	2	4	4	6
.M=Oth missing		252	3			
.Q=Not asked this wv		4549				
.R=RF		3		1	1	
.U=Unmarried	2373	5970	5658	6869	6538	6306
.V=Spouse NR	379	384	418	537	311	220
0.No	8001	6559	6321	7490	6802	6356
1.Yes	1899	1909	5589	6483	5923	5277

Value	R1VGACTF
1.3+ per week	2453
2.1-2 per week	3107
3.1-3 per mon	2469
4.Lt 1 per mon	2469
5.Never	2154

Value	S1VGACTF
.U=Unmarried	2373
.V=Spouse NR	379
1.3+ per week	1899
2.1-2 per week	2372
3.1-3 per mon	1945
4.Lt 1 per mon	1961
5.Never	1723

Value	R1HSWRKF
1.3+ per week	2453
2.1-2 per week	3107
3.1-3 per mon	2469
4.Lt 1 per mon	2469
5.Never	2154

Value	S1HSWRKF
.U=Unmarried	2373
.V=Spouse NR	379
1.3+ per week	1899
2.1-2 per week	2372
3.1-3 per mon	1945
4.Lt 1 per mon	1961
5.Never	1723

Value	R2VGACTP
.A=All the time	1
.D=DK/NA	2
.M=Oth missing	343
.Q=Not asked this wv	8222
.R=RF	4
.Z=None	5237
02.Per week	4017
04.Per month	779
06.Per year	175
07.Per other	52
11.Per day	810

Value	S2VGACTP
.A=All the time	1
.D=DK/NA	2
.M=Oth missing	278
.Q=Not asked this wv	4549
.R=RF	3
.U=Unmarried	5970
.V=Spouse NR	384
.Z=None	3910
02.Per week	3126
04.Per month	607
06.Per year	135
07.Per other	43
11.Per day	634



Value	R1LHTACT	R2LHTACT
.D=DK/NA		20
.M=Oth missing		249
.Q=Not asked this wv		8222
.R=RF		1
0.No	6043	3524
1.Yes	6609	7626

Value	S1LHTACT	S2LHTACT
.D=DK/NA		13
.M=Oth missing		195
.Q=Not asked this wv		4549
.R=RF		1
.U=Unmarried	2373	5970
.V=Spouse NR	379	384
0.No	4666	2605
1.Yes	5234	5925

Value	R1LTACTF
1.3+ per week	6609
2.1-2 per week	2676
3.1-3 per mon	1136
4.Lt 1 per mon	942
5.Never	1289

Value	S1LTACTF
.U=Unmarried	2373
.V=Spouse NR	379
1.3+ per week	5234
2.1-2 per week	2126
3.1-3 per mon	887
4.Lt 1 per mon	740
5.Never	913

Value	R2LTACTP
.A=All the time	1
.D=DK/NA	4
.M=Oth missing	418
.Q=Not asked this wv	8222
.Z=None	1451
02.Per week	5478
04.Per month	323
06.Per year	105
07.Per other	12
11.Per day	3628

Value	S2LTACTP
.A=All the time	1
.D=DK/NA	4
.M=Oth missing	328
.Q=Not asked this wv	4549
.U=Unmarried	5970
.V=Spouse NR	384
.Z=None	1002
02.Per week	4254
04.Per month	238
06.Per year	79
07.Per other	8
11.Per day	2825

Value	R7VGACTX
.D=DK/NA	17
.R=RF	3
1.Every day	385
2.>1 per week	4169
3.1 per week	1590
4.1-3 per mon	1464
5.Never	12501

Value	R8VGACTX	R9VGACTX	R10VGACTX	R11VGACTX	R12VGACTX
.D=DK/NA	18	9	39	61	76
.M=Oth missing	2			1	
.R=RF	4	1	10	3	4
1.Every day	520	456	531	450	478
2.>1 per week	3578	3361	4809	4527	4024
3.1 per week	1458	1403	2201	2248	1971
4.1-3 per mon	1190	1260	2021	1890	1814
5.Never	11699	10727	12423	11374	10380

Value	S7VGACTX
.D=DK/NA	10
.R=RF	3
.U=Unmarried	6777
.V=Spouse NR	380
1.Every day	283
2.>1 per week	3084
3.1 per week	1189
4.1-3 per mon	1092
5.Never	7311

Value	S8VGACTX	S9VGACTX	S10VGACTX	S11VGACTX	S12VGACTX
.D=DK/NA	8	8	16	38	41
.M=Oth missing	1			1	
.R=RF	2	1	5		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Every day	377	318	342	289	282
2.>1 per week	2626	2427	3331	3110	2698
3.1 per week	1070	1015	1512	1504	1276
4.1-3 per mon	862	892	1422	1333	1223
5.Never	6789	5985	6885	6213	5506

Value	R7MDACTX
.D=DK/NA	11
.R=RF	2
1.Every day	1096
2.>1 per week	9284
3.1 per week	3163
4.1-3 per mon	1914
5.Never	4659

Value	R8MDACTX	R9MDACTX	R10MDACTX	R11MDACTX	R12MDACTX
.D=DK/NA	11	8	28	31	56
.M=Oth missing	2			1	
.R=RF	2	1	5	2	2
1.Every day	1909	1777	1530	1467	1336
2.>1 per week	7939	6949	8754	8351	7310
3.1 per week	2649	2709	3868	3582	3254
4.1-3 per mon	1549	1703	2565	2439	2250
5.Never	4408	4070	5284	4681	4539

Value	S7MDACTX
.D=DK/NA	7
.R=RF	2
.U=Unmarried	6777
.V=Spouse NR	380
1.Every day	706
2.>1 per week	6439
3.1 per week	2207
4.1-3 per mon	1249
5.Never	2362

Value	S8MDACTX	S9MDACTX	S10MDACTX	S11MDACTX	S12MDACTX
.D=DK/NA	6	4	7	24	27
.M=Oth missing	1			1	
.R=RF	1	1	3		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Every day	1285	1106	940	892	758
2.>1 per week	5475	4682	5841	5466	4688
3.1 per week	1744	1791	2487	2277	2050
4.1-3 per mon	988	1059	1640	1537	1343
5.Never	2235	2003	2595	2291	2160

Value	R7LTACTX
.D=DK/NA	8
.R=RF	3
1.Every day	1074
2.>1 per week	10649
3.1 per week	4503
4.1-3 per mon	1301
5.Never	2591

Value	R8LTACTX	R9LTACTX	R10LTACTX	R11LTACTX	R12LTACTX
.D=DK/NA	7	10	17	31	24
.M=Oth missing	2			1	
.R=RF	1	1	8	4	3
1.Every day	2158	2090	1875	1713	1499
2.>1 per week	8841	7828	9874	9126	8091
3.1 per week	3840	3834	5553	5262	4942
4.1-3 per mon	1187	1076	1744	1625	1577
5.Never	2433	2378	2963	2792	2611

Value	S7LTACTX
.D=DK/NA	2
.R=RF	3
.U=Unmarried	6777
.V=Spouse NR	380
1.Every day	738
2.>1 per week	7293
3.1 per week	2698
4.1-3 per mon	877
5.Never	1361

Value	S8LTACTX	S9LTACTX	S10LTACTX	S11LTACTX	S12LTACTX
.D=DK/NA	5	3	9	19	7
.M=Oth missing	1			1	
.R=RF		1	3	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Every day	1501	1402	1215	1131	936
2.>1 per week	5987	5167	6545	6014	5250
3.1 per week	2254	2220	3164	2973	2633
4.1-3 per mon	751	692	1070	1000	938
5.Never	1236	1161	1507	1349	1262

## How Constructed

R1LTACTF gives the Respondent's frequency of light physical activity or exercise. R1VGACTF gives the Respondent's frequency of vigorous physical activity, and R1HSWRKF gives the frequency of doing heavy housework. R2LTACTN and R2LTACTP give the Respondent's frequency of light physical activity as number of times and over what period, respectively. R2VGACTN and R2VGACTP give the same for the Respondent's frequency of vigorous physical activity. RwlHTACT and RvwIGACT indicate whether the Respondent participates in light and vigorous physical activity, respectively, 3 or more times a week.

S1LTACTF, S1VGACTF, S1HSWRKF, S2LTACTN, S2LTACTP, S2VGACTN, S2VGACTP, SwLHTACT, and SwVIGACT give this information for the Respondent's spouse or partner.

In Wave 2A, questions about light or vigorous are not asked. So for AHEAD Respondents, R2VIGACT, R2VGACTF, R2HSWRKF, R2VGACTN, R2VGACTP, R2LHTACT, R2LTACTF, R2LTACTN AND R2LTACTP are set to the .Q SAS special missing value, to indicate that no information is available.

The raw categorical Wave 1 variables are simply recoded for missings in R1LTACTF, R1VGACTF, and R1HSWRKF. The raw Wave 2H variables are recoded for missings with R2LTACTN and R2VGACTN set to number of times and R2LTACTP and R2VGACTP set to the period. For R2VGACTN/S2VGACTN and R2LTACTN/S2LTACTN, there is a code in the original HRS data for "All the time; All day at work," and this is recoded to 999.

R1LHTACT, R2LHTACT, R1VIGACT, and R2VIGACT are attempts to make Wave 1 and 2H variables that are compatible with yes/no answers for physical activity in later waves which ask if the Respondent participates in vigorous activity 3 or more times per week. For Wave 1, the derivation sets R1LHTACT to "yes" if R1LTACTF is 3+ times a week, and to "no" otherwise. The derivation for R1VIGACT combines the vigorous activity and heavy housework questions. If either is 3+ times/week, then R1VIGACT is set to "yes."

In Wave 2H, the derivation sets R2LHTACT based on the number of times and frequencies to arrive at a yes/no answer for 3+ times per week. It is made "yes" if the period is day, or if the Respondent answers 3+ times per week, 12+ times per month, or 156+ times a year. The derivation for R2VIGACT is the same.

From Wave 3 to Wave 6, the RwVIGACT derivation recodes the raw variable to "1" if the Respondent answers "yes," participates in vigorous physical activity 3 or more times a week, and to "0" for "no." The question about light physical activity is not asked.

Because of wording differences, even with the attempt to recode to a consistent measure, these variables seem to be significantly different measures across waves. From Wave 3 to Wave 6, the questions ask only about vigorous physical activity and include physical labor on the job and sports. Waves 1 and 2H list sports such as bowling and golf as examples in the light physical activity question, and do not mention activity on the job.

Beginning in Wave 7, the single question about vigorous physical activity is replaced with three questions about physical activity, which offer the choice of vigorous, moderate or light physical activity occurring every day, more than once per week, once per week, one to three times per month, or never. These measures are derived as RwVGACTX, RwMDACTX, RwLTACTX, SwVGACTX, SwMDACTX and SwLTACTX. Please see Appendix A for detailed comparisons.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S2VIGACT is taken from the Wave 2 spouse's R2VIGACT variable.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, three questions ask about light physical activity, vigorous physical activity, and doing heavy housework:

"The next few questions are about exercise. How often do you participate in light physical activity—such as walking, dancing, gardening, golfing, bowling, etc?"

"How often do you participate in vigorous physical exercise or sports—such as aerobics, running, swimming, or bicycling?"

"How often do you do heavy housework like scrubbing floors or washing windows?"

The answers are 5-category frequencies: 3+ times/week, 1-2 times/week, 1-2 times/month, less than 1/month, and never.

In Wave 2H, the question wording about light physical activity is similar but the question about vigorous physical activity includes doing heavy housework and both questions are answered in two parts:

"The next few questions are about physical activities. Please tell me how often you participate in light physical activity—such as walking, dancing, gardening, golfing, bowling, etc?"

"How often do you participate in vigorous physical activity or sports—such as heavy housework, aerobics, running, swimming, or bicycling?"

The answers are given as how many times and over what period.

In Wave 2A, the questions are not asked.

From Waves 3 to 6, the question about light physical activity is not asked. The only question about physical activity asks:

"On average over the last 12 months have you participated in vigorous physical activity or exercise three times a

week or more? By vigorous physical activity, we mean things like sports, heavy housework, or a job that involves physical labor."

The answers are given as "yes" or "no," for 3 or more times per week.

Beginning in Wave 7, the single question about vigorous physical activity is replaced with three questions covering vigorous, moderate or light physical activity. The possible responses also change to: every day, more than once per week, once per week, one to three times per month, or never. The wording for these questions is:

"We would like to know the type and amount of physical activity involved in your daily life. How often do you take part in sports or activities that are vigorous, such as running or jogging, swimming, cycling, aerobics or gym workout, tennis, or digging with a spade or shovel?"

"And how often do you take part in sports or activities that are moderately energetic such as, gardening, cleaning the car, walking at a moderate pace, dancing, floor or stretching exercises?"

"And how often do you take part in sports or activities that are mildly energetic, such as vacuuming, laundry, home repairs?"

## HRS Variables Used

HRS 1992:	
V512	B38:FREQ:LIGHT PHYS :IMP
V513	B39:FREQ:HEAVY PHYS :IMP
V514	B40:HEAVY HOUSE WORK:IMP
HRS 1994:	
W458	B42.LIGHT PHYSICAL EXERC
W459	B42a.AMOUNT WEEK/MONTH/Y
W460	B43.VIGOROUS EXERCISE
W461	B43a.AMOUNT WEEK/MONTH/Y
AHEAD 1995:	
D934	B19Q. VIGOROUS EXERCISE
HRS 1996:	
E934	B19Q. VIGOROUS EXERCISE
HRS 1998:	
F1262	B19Q. VIGOROUS EXERCISE
HRS 2000:	
G1395	B19Q. VIGOROUS EXERCISE
HRS 2002:	
HC115	VIGOROUS EXERCISE
HRS 2004:	
JC223	HOW OFTEN VIGOROUS ACTIVITY
JC224	HOW OFTEN MODERATE ACTIVITY
JC225	HOW OFTEN MILD ACTIVITY
HRS 2006:	
KC223	HOW OFTEN VIGOROUS ACTIVITY
KC224	HOW OFTEN MODERATE ACTIVITY
KC225	HOW OFTEN MILD ACTIVITY
HRS 2008:	
LC223	HOW OFTEN VIGOROUS ACTIVITY
LC224	HOW OFTEN MODERATE ACTIVITY
LC225	HOW OFTEN MILD ACTIVITY
HRS 2010:	
MC223	HOW OFTEN VIGOROUS ACTIVITY
MC224	HOW OFTEN MODERATE ACTIVITY

MC225	HOW OFTEN MILD ACTIVITY
HRS 2012:	
NC223	HOW OFTEN VIGOROUS ACTIVITY
NC224	HOW OFTEN MODERATE ACTIVITY
NC225	HOW OFTEN MILD ACTIVITY
HRS 2014:	
OC223	HOW OFTEN VIGOROUS ACTIVITY
OC224	HOW OFTEN MODERATE ACTIVITY
OC225	HOW OFTEN MILD ACTIVITY



### Health behaviors: Drinking

Wave	Variable	Label	Type
1	R1DRINK	R1DRINK:W1 R ever drinks any alcohol	Categ
2	R2DRINK	R2DRINK:W2 R ever drinks any alcohol	Categ
3	R3DRINK	R3DRINK:W3 R ever drinks any alcohol	Categ
4	R4DRINK	R4DRINK:W4 R ever drinks any alcohol	Categ
5	R5DRINK	R5DRINK:W5 R ever drinks any alcohol	Categ
6	R6DRINK	R6DRINK:W6 R ever drinks any alcohol	Categ
7	R7DRINK	R7DRINK:W7 R ever drinks any alcohol	Categ
8	R8DRINK	R8DRINK:W8 R ever drinks any alcohol	Categ
9	R9DRINK	R9DRINK:W9 R ever drinks any alcohol	Categ
10	R10DRINK	R10DRINK:W10 R ever drinks any alcohol	Categ
11	R11DRINK	R11DRINK:W11 R ever drinks any alcohol	Categ
12	R12DRINK	R12DRINK:W12 R ever drinks any alcohol	Categ
1	S1DRINK	S1DRINK:W1 S ever drinks any alcohol	Categ
2	S2DRINK	S2DRINK:W2 S ever drinks any alcohol	Categ
3	S3DRINK	S3DRINK:W3 S ever drinks any alcohol	Categ
4	S4DRINK	S4DRINK:W4 S ever drinks any alcohol	Categ
5	S5DRINK	S5DRINK:W5 S ever drinks any alcohol	Categ
6	S6DRINK	S6DRINK:W6 S ever drinks any alcohol	Categ
7	S7DRINK	S7DRINK:W7 S ever drinks any alcohol	Categ
8	S8DRINK	S8DRINK:W8 S ever drinks any alcohol	Categ
9	S9DRINK	S9DRINK:W9 S ever drinks any alcohol	Categ
10	S10DRINK	S10DRINK:W10 S ever drinks any alcohol	Categ
11	S11DRINK	S11DRINK:W11 S ever drinks any alcohol	Categ
12	S12DRINK	S12DRINK:W12 S ever drinks any alcohol	Categ
1	R1DRINKR	R1DRINKR:W1 R range of # drinks/day	Categ
2	R2DRINKR	R2DRINKR:W2 R range of # drinks/day	Categ
1	S1DRINKR	S1DRINKR:W1 S range of # drinks/day	Categ
2	S2DRINKR	S2DRINKR:W2 S range of # drinks/day	Categ
3	R3DRINKD	R3DRINKD:W3 R # days/week drinks	Categ
4	R4DRINKD	R4DRINKD:W4 R # days/week drinks	Categ
5	R5DRINKD	R5DRINKD:W5 R # days/week drinks	Categ
6	R6DRINKD	R6DRINKD:W6 R # days/week drinks	Categ
7	R7DRINKD	R7DRINKD:W7 R # days/week drinks	Categ
8	R8DRINKD	R8DRINKD:W8 R # days/week drinks	Categ
9	R9DRINKD	R9DRINKD:W9 R # days/week drinks	Categ
10	R10DRINKD	R10DRINKD:W10 R # days/week drinks	Categ
11	R11DRINKD	R11DRINKD:W11 R # days/week drinks	Categ
12	R12DRINKD	R12DRINKD:W12 R # days/week drinks	Categ
3	S3DRINKD	S3DRINKD:W3 S # days/week drinks	Categ
4	S4DRINKD	S4DRINKD:W4 S # days/week drinks	Categ
5	S5DRINKD	S5DRINKD:W5 S # days/week drinks	Categ
6	S6DRINKD	S6DRINKD:W6 S # days/week drinks	Categ
7	S7DRINKD	S7DRINKD:W7 S # days/week drinks	Categ
8	S8DRINKD	S8DRINKD:W8 S # days/week drinks	Categ
9	S9DRINKD	S9DRINKD:W9 S # days/week drinks	Categ
10	S10DRINKD	S10DRINKD:W10 S # days/week drinks	Categ
11	S11DRINKD	S11DRINKD:W11 S # days/week drinks	Categ
12	S12DRINKD	S12DRINKD:W12 S # days/week drinks	Categ
3	R3DRINKN	R3DRINKN:W3 R # drinks/day when drinks	Categ
4	R4DRINKN	R4DRINKN:W4 R # drinks/day when drinks	Categ
5	R5DRINKN	R5DRINKN:W5 R # drinks/day when drinks	Categ
6	R6DRINKN	R6DRINKN:W6 R # drinks/day when drinks	Categ
7	R7DRINKN	R7DRINKN:W7 R # drinks/day when drinks	Categ
8	R8DRINKN	R8DRINKN:W8 R # drinks/day when drinks	Categ
9	R9DRINKN	R9DRINKN:W9 R # drinks/day when drinks	Categ
10	R10DRINKN	R10DRINKN:W10 R # drinks/day when drinks	Categ
11	R11DRINKN	R11DRINKN:W11 R # drinks/day when drinks	Categ
12	R12DRINKN	R12DRINKN:W12 R # drinks/day when drinks	Categ
3	S3DRINKN	S3DRINKN:W3 S # drinks/day when drinks	Categ

4	S4DRINKN	S4DRINKN:W4 S # drinks/day when drinks	Categ
5	S5DRINKN	S5DRINKN:W5 S # drinks/day when drinks	Categ
6	S6DRINKN	S6DRINKN:W6 S # drinks/day when drinks	Categ
7	S7DRINKN	S7DRINKN:W7 S # drinks/day when drinks	Categ
8	S8DRINKN	S8DRINKN:W8 S # drinks/day when drinks	Categ
9	S9DRINKN	S9DRINKN:W9 S # drinks/day when drinks	Categ
10	S10DRINKN	S10DRINKN:W10 S # drinks/day when drinks	Categ
11	S11DRINKN	S11DRINKN:W11 S # drinks/day when drinks	Categ
12	S12DRINKN	S12DRINKN:W12 S # drinks/day when drinks	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRINK	12652	0.61	0.49	0.0	1.0
R2DRINK	19637	0.50	0.50	0.0	1.0
R3DRINK	17986	0.46	0.50	0.0	1.0
R4DRINK	21379	0.47	0.50	0.0	1.0
R5DRINK	19575	0.45	0.50	0.0	1.0
R6DRINK	18161	0.45	0.50	0.0	1.0
R7DRINK	20125	0.49	0.50	0.0	1.0
R8DRINK	18462	0.50	0.50	0.0	1.0
R9DRINK	17215	0.49	0.50	0.0	1.0
R10DRINK	22031	0.56	0.50	0.0	1.0
R11DRINK	20549	0.54	0.50	0.0	1.0
R12DRINK	18743	0.54	0.50	0.0	1.0
S1DRINK	9900	0.61	0.49	0.0	1.0
S2DRINK	13085	0.54	0.50	0.0	1.0
S3DRINK	11912	0.51	0.50	0.0	1.0
S4DRINK	13977	0.51	0.50	0.0	1.0
S5DRINK	12728	0.49	0.50	0.0	1.0
S6DRINK	11636	0.49	0.50	0.0	1.0
S7DRINK	12969	0.53	0.50	0.0	1.0
S8DRINK	11731	0.54	0.50	0.0	1.0
S9DRINK	10645	0.54	0.50	0.0	1.0
S10DRINK	13511	0.60	0.49	0.0	1.0
S11DRINK	12485	0.58	0.49	0.0	1.0
S12DRINK	11025	0.58	0.49	0.0	1.0
R1DRINKR	12652	0.83	0.88	0.0	4.0
R2DRINKR	19623	0.67	0.81	0.0	4.0
S1DRINKR	9900	0.84	0.87	0.0	4.0
S2DRINKR	13078	0.73	0.83	0.0	4.0
R3DRINKD	17925	1.02	2.00	0.0	7.0
R4DRINKD	21379	1.01	2.03	0.0	7.0
R5DRINKD	19561	0.94	1.98	0.0	7.0
R6DRINKD	18129	1.00	2.00	0.0	7.0
R7DRINKD	20090	1.08	2.04	0.0	7.0
R8DRINKD	18438	1.09	2.06	0.0	7.0
R9DRINKD	17198	1.09	2.06	0.0	7.0
R10DRINKD	21986	1.11	1.97	0.0	7.0
R11DRINKD	20496	1.09	1.94	0.0	7.0
R12DRINKD	18657	1.10	1.95	0.0	7.0
S3DRINKD	11872	1.14	2.08	0.0	7.0

S4DRINKD	13977	1.14	2.12	0.0	7.0
S5DRINKD	12719	1.07	2.08	0.0	7.0
S6DRINKD	11615	1.14	2.09	0.0	7.0
S7DRINKD	12948	1.23	2.15	0.0	7.0
S8DRINKD	11721	1.26	2.19	0.0	7.0
S9DRINKD	10636	1.28	2.18	0.0	7.0
S10DRINKD	13492	1.26	2.06	0.0	7.0
S11DRINKD	12461	1.24	2.05	0.0	7.0
S12DRINKD	10984	1.26	2.04	0.0	7.0
R3DRINKN	17899	0.64	1.69	0.0	99.0
R4DRINKN	21317	0.61	1.36	0.0	38.0
R5DRINKN	19529	0.54	1.25	0.0	32.0
R6DRINKN	18128	0.59	1.23	0.0	23.0
R7DRINKN	20078	0.69	1.48	0.0	50.0
R8DRINKN	18424	0.65	1.34	0.0	45.0
R9DRINKN	17194	0.66	1.32	0.0	17.0
R10DRINKN	21984	0.83	1.61	0.0	40.0
R11DRINKN	20491	0.79	1.49	0.0	30.0
R12DRINKN	18648	0.78	1.41	0.0	18.0
S3DRINKN	11856	0.70	1.34	0.0	30.0
S4DRINKN	13942	0.67	1.35	0.0	38.0
S5DRINKN	12699	0.61	1.28	0.0	32.0
S6DRINKN	11612	0.66	1.25	0.0	23.0
S7DRINKN	12946	0.76	1.49	0.0	50.0
S8DRINKN	11711	0.73	1.32	0.0	24.0
S9DRINKN	10631	0.75	1.36	0.0	15.0
S10DRINKN	13493	0.91	1.64	0.0	40.0
S11DRINKN	12455	0.86	1.50	0.0	30.0
S12DRINKN	10973	0.87	1.46	0.0	15.0

## Categorical Variable Codes

Value	R1DRINK	R2DRINK	R3DRINK	R4DRINK	R5DRINK	R6DRINK	R7DRINK
.D=DK/NA		4	1	4	2	1	1
.M=Oth missing			2				
.R=RF		1	2	1	2	3	3
0.No	4996	9734	9685	11306	10768	10058	10354
1.Yes	7656	9903	8301	10073	8807	8103	9771

Value	R8DRINK	R9DRINK	R10DRINK	R11DRINK	R12DRINK
.D=DK/NA		1	2	1	4
.M=Oth missing	2			1	
.R=RF	5	1	1	3	
0.No	9294	8810	9735	9534	8707
1.Yes	9168	8405	12296	11015	10036

Value	S1DRINK	S2DRINK	S3DRINK	S4DRINK	S5DRINK	S6DRINK	S7DRINK
.D=DK/NA		2		1			
.M=Oth missing			2				
.R=RF		1	1		2	3	3
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	3826	6035	5894	6834	6439	5893	6103
1.Yes	6074	7050	6018	7143	6289	5743	6866

Value	S8DRINK	S9DRINK	S10DRINK	S11DRINK	S12DRINK
.D=DK/NA			1	1	2
.M=Oth missing	1			1	
.R=RF	3	1	1	1	
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5395	4915	5428	5254	4597
1.Yes	6336	5730	8083	7231	6428

Value	R1DRINKR	R2DRINKR
.D=DK/NA		15
.R=RF		4
0.Doesn't drink	4996	9734
1.Lt 1/day	5676	7425
2.1-2/day	1285	1793
3.3-4/day	483	496
4.5+/day	212	175

Value	S1DRINKR	S2DRINKR
.D=DK/NA		8
.R=RF		2
.U=Unmarried	2373	5970
.V=Spouse NR	379	584
0.Doesn't drink	3826	6035
1.Lt 1/day	4525	5220
2.1-2/day	1005	1322
3.3-4/day	393	376
4.5+/day	151	125

Value	R3DRINKD	R4DRINKD	R5DRINKD	R6DRINKD	R7DRINKD
.D=DK/NA	59	4	12	28	33
.M=Oth missing	3				
.R=RF	4	1	6	8	6
0.0 or doesnt drink	12368	15113	14323	12797	13549
1	1805	1859	1452	1610	2115
2	1008	1157	968	956	1130
3	761	795	727	749	878
4	305	398	332	315	413
5	329	363	310	347	407
6	122	154	142	154	186
7	1227	1540	1307	1201	1412

Value	R8DRINKD	R9DRINKD	R10DRINKD	R11DRINKD	R12DRINKD
.D=DK/NA	21	11	39	47	87
.M=Oth missing	2			1	
.R=RF	8	8	9	10	3
0.0 or doesnt drink	12491	11588	13830	12987	11754
1	1844	1760	2936	2709	2470
2	1043	1022	1565	1458	1324
3	783	707	1110	1033	958
4	399	368	494	480	453
5	394	354	497	458	443
6	164	180	230	217	212
7	1320	1219	1324	1154	1043

Value	S3DRINKD	S4DRINKD	S5DRINKD	S6DRINKD	S7DRINKD
.D=DK/NA	39	1	6	16	19
.M=Oth missing	2				
.R=RF	2		5	8	5
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.0 or doesnt drink	7787	9397	8845	7716	8215
1	1306	1372	1083	1174	1492
2	730	810	694	676	810
3	571	573	541	547	604
4	232	295	240	251	314
5	260	288	246	267	318
6	98	124	115	128	149
7	888	1118	955	856	1046

Value	S8DRINKD	S9DRINKD	S10DRINKD	S11DRINKD	S12DRINKD
.D=DK/NA	8	5	15	24	41
.M=Oth missing	1			1	
.R=RF	5	5	6	2	2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.0 or doesnt drink	7461	6663	7963	7423	6408
1	1271	1205	1933	1775	1622
2	719	725	1028	938	839
3	538	474	758	675	631
4	296	271	350	325	318

5		312	267	381	349	319
6		133	147	177	163	153
7		991	884	902	813	694

Value		R3DRINKN	R4DRINKN	R5DRINKN	R6DRINKN	R7DRINKN
.D=DK/NA		78	27	40	29	33
.M=Oth missing		7	35	3		9
.R=RF		7	5	7	8	9
0.0 or doesnt drink		12387	15143	14362	12818	13552
1		2469	2757	2336	2479	2891
2		1826	2006	1724	1680	2057
3		640	737	593	645	848
4		244	286	227	214	316
5		101	107	81	84	98
6		140	160	115	121	189
7		13	24	18	20	12
8		22	34	24	23	34
9		4	2	1	2	6
10		15	20	19	17	24
11		1			1	2
12		23	24	17	18	31
13		1	1	2	1	1
14				1		1
15		5	2	2	3	6
16		1	6	2		1
18		1	1	1	1	
20		1	1			3
21						1
22			1			
23					1	
24		2	3			1
26				3		2
30		1				
32			1	1		
38			1			
45						1
50						1
99.All day		2				

Value		R8DRINKN	R9DRINKN	R10DRINKN	R11DRINKN	R12DRINKN
.D=DK/NA		29	13	41	47	89
.M=Oth missing		6		1	3	
.R=RF		10	10	8	13	10
0.0 or doesnt drink		12517	11598	13832	12941	11775
1		2716	2618	3412	3260	2983
2		1911	1757	2574	2456	2219
3		692	653	1058	943	887
4		252	243	423	391	351
5		94	93	175	141	122
6		153	127	290	201	167
7		15	18	30	15	26
8		19	29	62	49	48
9		2	2	7	6	3
10		19	16	40	29	26
11		2	1	2	2	1
12		23	30	51	39	31
13				1	1	1
14			1	3	4	
15		4	6	14	6	6
16			1	2		
17			1			
18		2		2	1	2
20				2	2	
24		1		2	1	
26					1	
27		1				
30					2	
36				1		

40 | 1  
45 | 1

Value	S3DRINKN	S4DRINKN	S5DRINKN	S6DRINKN	S7DRINKN
.D=DK/NA	51	15	24	19	14
.M=Oth missing	3	18	2		5
.R=RF	5	3	5	8	7
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.0 or doesnt drink	7799	9414	8871	7731	8219
1	1774	2011	1701	1827	2073
2	1391	1493	1316	1242	1547
3	469	537	453	473	604
4	187	214	157	146	222
5	71	76	60	57	66
6	105	120	80	83	132
7	8	16	14	12	8
8	14	24	16	16	24
9	2	2			2
10	11	11	10	8	17
11	1			1	
12	20	16	13	14	23
13	1	1	2		1
14			1		
15	2	2	1	1	2
16		3	2		1
20					1
21					1
23				1	
24		1			1
26			1		1
30	1				
32			1		
38		1			
50					1

Value	S8DRINKN	S9DRINKN	S10DRINKN	S11DRINKN	S12DRINKN
.D=DK/NA	14	8	12	25	48
.M=Oth missing	4		1	1	
.R=RF	6	7	7	7	6
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.0 or doesnt drink	7474	6668	7963	7395	6422
1	1917	1847	2337	2173	1992
2	1405	1259	1771	1668	1459
3	508	459	691	637	593
4	174	166	285	265	226
5	65	70	111	89	80
6	107	89	198	133	102
7	11	14	19	11	19
8	14	24	36	32	33
9	1	2	4	3	2
10	17	8	26	18	17
11	2		1	2	
12	13	22	35	22	22
13			1		1
14		1	3	2	
15	2	2	8	1	5
16			2		
20				2	
24	1				
30				2	
36			1		
40			1		

## How Constructed

The R<sub>w</sub>DRINK variables indicate whether the Respondent ever drinks alcoholic beverages. The R1DRINKR, R2DRINKR, R<sub>w</sub>DRINKD, and R<sub>w</sub>DRINKN variables are the Respondent's answers to how often s/he drinks alcoholic beverages.

The S<sub>w</sub>DRINK, S1DRINKR, S2DRINKR, S<sub>w</sub>DRINKD, and S<sub>w</sub>DRINKN variables give this information for the Respondent's spouse or partner.

The drinking behavior variables are simply recoded from the raw HRS variables. In Wave 3 for R3DRINKN, there is a code in the original HRS data for "drinks all day," and this is recoded to 99. There are different variables for how often the Respondent drinks in Waves 1 and 2 than in subsequent waves, because different follow-up questions are asked. If the Respondent says s/he never drinks alcohol, the "how often" variables are set to zero.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S2DRINK is taken from the Wave 2 spouse's R2DRINK variable.

## Cross Wave Differences in Original HRS Data

In Waves 1 and 2, a question asks: "Do you ever drink any alcoholic beverages, such as beer, wine, or liquor?" If yes, another question asks for a range of drinks per day in general. The possible answers are: less than 1, 1-2, 3-4, 5 or more.

From Wave 3 forward, the same initial question asks if the Respondent ever drinks alcoholic beverages. If yes, two follow-up questions are asked about the last 3 months:

"In the last three months, on average, how many days per week have you had any alcohol to drink? (For example, beer, wine, or any drink containing liquor.)"

"In the last three months, on the days you drink, about how many drinks do you have?"

If the answer to the first follow-up question is none or less than once week, then the second follow-up question is skipped.

## HRS Variables Used

HRS 1992:	
V506	B36:CURR DRINK ALCOH:IMP
V507	B36A:DRINKS PER DAY :IMP
AHEAD 1993:	
B301	B20. EVER DRINK ALCOHOL
B302	B20a. # DRINKS PER DAY
HRS 1994:	
W456	B41.DRINK ALCOHOL
W457	B41a.AMOUNT OF ALCOHOL P
AHEAD 1995:	
D949	B21.ALCOHOL
D950	B21A.DRINK-# DAYS PER WEEK
D951	B21B.# DRINKS-DAY
HRS 1996:	
E949	B21. ALCOHOL: EVER DRINK
E950	B21A. ALCOHOL: NUM DAYS DRINK PER WEEK
E951	B21C. ALCOHOL: NUM DRINKS PER DAY



HRS 1998:  
F1282 B21.ALCOHOL  
F1283 B21A.# DRINKS: DAYS PER WEEK  
F1284 B21B.# DRINKS-DAY  
HRS 2000:  
G1415 B21.EVER DRINK ALCOHOL  
G1416 B21A.# DRINKS: DAYS PER WEEK  
G1417 B21B.# DRINKS-DAY  
HRS 2002:  
HC128 EVER DRINK ALCOHOL  
HC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
HC130 NUMBER DRINKS- PER DAY  
HRS 2004:  
JC128 EVER DRINK ALCOHOL  
JC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
JC130 NUMBER DRINKS- PER DAY  
HRS 2006:  
KC128 EVER DRINK ALCOHOL  
KC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
KC130 NUMBER DRINKS- PER DAY  
HRS 2008:  
LC128 EVER DRINK ALCOHOL  
LC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
LC130 NUMBER DRINKS- PER DAY  
HRS 2010:  
MC128 EVER DRINK ALCOHOL  
MC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
MC130 NUMBER DRINKS- PER DAY  
HRS 2012:  
NC128 EVER DRINK ALCOHOL  
NC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
NC130 NUMBER DRINKS- PER DAY  
HRS 2014:  
OC128 EVER DRINK ALCOHOL  
OC129 NUMBER DAYS PER WEEK- DRINK ALCOHOL  
OC130 NUMBER DRINKS- PER DAY

<b>Health behaviors: Preventive behaviors</b>
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Wave	Variable	Label	Type
3	R3CHOLST	R3CHOLST:W3 Prev Cholesterol	Categ
4	R4CHOLST	R4CHOLST:W4 Prev Cholesterol	Categ
5	R5CHOLST	R5CHOLST:W5 Prev Cholesterol	Categ
6	R6CHOLST	R6CHOLST:W6 Prev Cholesterol	Categ
7	R7CHOLST	R7CHOLST:W7 Prev Cholesterol	Categ
8	R8CHOLST	R8CHOLST:W8 Prev Cholesterol	Categ
9	R9CHOLST	R9CHOLST:W9 Prev Cholesterol	Categ
10	R10CHOLST	R10CHOLST:W10 Prev Cholesterol	Categ
11	R11CHOLST	R11CHOLST:W11 Prev Cholesterol	Categ
12	R12CHOLST	R12CHOLST:W12 Prev Cholesterol	Categ
3	S3CHOLST	S3CHOLST:W3 Prev Cholesterol	Categ
4	S4CHOLST	S4CHOLST:W4 Prev Cholesterol	Categ
5	S5CHOLST	S5CHOLST:W5 Prev Cholesterol	Categ
6	S6CHOLST	S6CHOLST:W6 Prev Cholesterol	Categ
7	S7CHOLST	S7CHOLST:W7 Prev Cholesterol	Categ
8	S8CHOLST	S8CHOLST:W8 Prev Cholesterol	Categ
9	S9CHOLST	S9CHOLST:W9 Prev Cholesterol	Categ
10	S10CHOLST	S10CHOLST:W10 Prev Cholesterol	Categ
11	S11CHOLST	S11CHOLST:W11 Prev Cholesterol	Categ
12	S12CHOLST	S12CHOLST:W12 Prev Cholesterol	Categ
3	R3FLUSHT	R3FLUSHT:W3 Prev Flu Shot	Categ
4	R4FLUSHT	R4FLUSHT:W4 Prev Flu Shot	Categ
5	R5FLUSHT	R5FLUSHT:W5 Prev Flu Shot	Categ
6	R6FLUSHT	R6FLUSHT:W6 Prev Flu Shot	Categ
7	R7FLUSHT	R7FLUSHT:W7 Prev Flu Shot	Categ
8	R8FLUSHT	R8FLUSHT:W8 Prev Flu Shot	Categ
9	R9FLUSHT	R9FLUSHT:W9 Prev Flu Shot	Categ
10	R10FLUSHT	R10FLUSHT:W10 Prev Flu Shot	Categ
11	R11FLUSHT	R11FLUSHT:W11 Prev Flu Shot	Categ
12	R12FLUSHT	R12FLUSHT:W12 Prev Flu Shot	Categ
3	S3FLUSHT	S3FLUSHT:W3 Prev Flu Shot	Categ
4	S4FLUSHT	S4FLUSHT:W4 Prev Flu Shot	Categ
5	S5FLUSHT	S5FLUSHT:W5 Prev Flu Shot	Categ
6	S6FLUSHT	S6FLUSHT:W6 Prev Flu Shot	Categ
7	S7FLUSHT	S7FLUSHT:W7 Prev Flu Shot	Categ
8	S8FLUSHT	S8FLUSHT:W8 Prev Flu Shot	Categ
9	S9FLUSHT	S9FLUSHT:W9 Prev Flu Shot	Categ
10	S10FLUSHT	S10FLUSHT:W10 Prev Flu Shot	Categ
11	S11FLUSHT	S11FLUSHT:W11 Prev Flu Shot	Categ
12	S12FLUSHT	S12FLUSHT:W12 Prev Flu Shot	Categ
3	R3BREAST	R3BREAST:W3 Prev Breast Check	Categ
4	R4BREAST	R4BREAST:W4 Prev Breast Check	Categ
5	R5BREAST	R5BREAST:W5 Prev Breast Check	Categ
6	R6BREAST	R6BREAST:W6 Prev Breast Check	Categ
7	R7BREAST	R7BREAST:W7 Prev Breast Check	Categ
8	R8BREAST	R8BREAST:W8 Prev Breast Check	Categ
9	R9BREAST	R9BREAST:W9 Prev Breast Check	Categ
10	R10BREAST	R10BREAST:W10 Prev Breast Check	Categ
3	S3BREAST	S3BREAST:W3 Prev Breast Check	Categ
4	S4BREAST	S4BREAST:W4 Prev Breast Check	Categ
5	S5BREAST	S5BREAST:W5 Prev Breast Check	Categ
6	S6BREAST	S6BREAST:W6 Prev Breast Check	Categ
7	S7BREAST	S7BREAST:W7 Prev Breast Check	Categ
8	S8BREAST	S8BREAST:W8 Prev Breast Check	Categ
9	S9BREAST	S9BREAST:W9 Prev Breast Check	Categ
10	S10BREAST	S10BREAST:W10 Prev Breast Check	Categ
3	R3MAMMOG	R3MAMMOG:W3 Prev Mammogram	Categ
4	R4MAMMOG	R4MAMMOG:W4 Prev Mammogram	Categ
5	R5MAMMOG	R5MAMMOG:W5 Prev Mammogram	Categ
6	R6MAMMOG	R6MAMMOG:W6 Prev Mammogram	Categ

7	R7MAMMOG	R7MAMMOG:W7 Prev Mammogram	Categ
8	R8MAMMOG	R8MAMMOG:W8 Prev Mammogram	Categ
9	R9MAMMOG	R9MAMMOG:W9 Prev Mammogram	Categ
10	R10MAMMOG	R10MAMMOG:W10 Prev Mammogram	Categ
11	R11MAMMOG	R11MAMMOG:W11 Prev Mammogram	Categ
12	R12MAMMOG	R12MAMMOG:W12 Prev Mammogram	Categ
3	S3MAMMOG	S3MAMMOG:W3 Prev Mammogram	Categ
4	S4MAMMOG	S4MAMMOG:W4 Prev Mammogram	Categ
5	S5MAMMOG	S5MAMMOG:W5 Prev Mammogram	Categ
6	S6MAMMOG	S6MAMMOG:W6 Prev Mammogram	Categ
7	S7MAMMOG	S7MAMMOG:W7 Prev Mammogram	Categ
8	S8MAMMOG	S8MAMMOG:W8 Prev Mammogram	Categ
9	S9MAMMOG	S9MAMMOG:W9 Prev Mammogram	Categ
10	S10MAMMOG	S10MAMMOG:W10 Prev Mammogram	Categ
11	S11MAMMOG	S11MAMMOG:W11 Prev Mammogram	Categ
12	S12MAMMOG	S12MAMMOG:W12 Prev Mammogram	Categ
3	R3PAPSM	R3PAPSM:W3 Prev Pap Smear	Categ
4	R4PAPSM	R4PAPSM:W4 Prev Pap Smear	Categ
5	R5PAPSM	R5PAPSM:W5 Prev Pap Smear	Categ
6	R6PAPSM	R6PAPSM:W6 Prev Pap Smear	Categ
7	R7PAPSM	R7PAPSM:W7 Prev Pap Smear	Categ
8	R8PAPSM	R8PAPSM:W8 Prev Pap Smear	Categ
9	R9PAPSM	R9PAPSM:W9 Prev Pap Smear	Categ
10	R10PAPSM	R10PAPSM:W10 Prev Pap Smear	Categ
11	R11PAPSM	R11PAPSM:W11 Prev Pap Smear	Categ
12	R12PAPSM	R12PAPSM:W12 Prev Pap Smear	Categ
3	S3PAPSM	S3PAPSM:W3 Prev Pap Smear	Categ
4	S4PAPSM	S4PAPSM:W4 Prev Pap Smear	Categ
5	S5PAPSM	S5PAPSM:W5 Prev Pap Smear	Categ
6	S6PAPSM	S6PAPSM:W6 Prev Pap Smear	Categ
7	S7PAPSM	S7PAPSM:W7 Prev Pap Smear	Categ
8	S8PAPSM	S8PAPSM:W8 Prev Pap Smear	Categ
9	S9PAPSM	S9PAPSM:W9 Prev Pap Smear	Categ
10	S10PAPSM	S10PAPSM:W10 Prev Pap Smear	Categ
11	S11PAPSM	S11PAPSM:W11 Prev Pap Smear	Categ
12	S12PAPSM	S12PAPSM:W12 Prev Pap Smear	Categ
3	R3PROST	R3PROST:W3 Prev Prostate	Categ
4	R4PROST	R4PROST:W4 Prev Prostate	Categ
5	R5PROST	R5PROST:W5 Prev Prostate	Categ
6	R6PROST	R6PROST:W6 Prev Prostate	Categ
7	R7PROST	R7PROST:W7 Prev Prostate	Categ
8	R8PROST	R8PROST:W8 Prev Prostate	Categ
9	R9PROST	R9PROST:W9 Prev Prostate	Categ
10	R10PROST	R10PROST:W10 Prev Prostate	Categ
11	R11PROST	R11PROST:W11 Prev Prostate	Categ
12	R12PROST	R12PROST:W12 Prev Prostate	Categ
3	S3PROST	S3PROST:W3 Prev Prostate	Categ
4	S4PROST	S4PROST:W4 Prev Prostate	Categ
5	S5PROST	S5PROST:W5 Prev Prostate	Categ
6	S6PROST	S6PROST:W6 Prev Prostate	Categ
7	S7PROST	S7PROST:W7 Prev Prostate	Categ
8	S8PROST	S8PROST:W8 Prev Prostate	Categ
9	S9PROST	S9PROST:W9 Prev Prostate	Categ
10	S10PROST	S10PROST:W10 Prev Prostate	Categ
11	S11PROST	S11PROST:W11 Prev Prostate	Categ
12	S12PROST	S12PROST:W12 Prev Prostate	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3CHOLST	17846	0.72	0.45	0.0	1.0

R4CHOLST	5078	0.75	0.43	0.0	1.0
R5CHOLST	19464	0.76	0.43	0.0	1.0
R6CHOLST	229	0.78	0.42	0.0	1.0
R7CHOLST	19845	0.82	0.38	0.0	1.0
R8CHOLST	207	0.79	0.41	0.0	1.0
R9CHOLST	16962	0.85	0.36	0.0	1.0
R10CHOLST	6430	0.76	0.43	0.0	1.0
R11CHOLST	20371	0.83	0.37	0.0	1.0
R12CHOLST	183	0.69	0.46	0.0	1.0
S3CHOLST	11863	0.73	0.44	0.0	1.0
S4CHOLST	3497	0.75	0.43	0.0	1.0
S5CHOLST	12674	0.78	0.41	0.0	1.0
S6CHOLST	214	0.79	0.41	0.0	1.0
S7CHOLST	12864	0.84	0.37	0.0	1.0
S8CHOLST	198	0.81	0.39	0.0	1.0
S9CHOLST	10547	0.87	0.34	0.0	1.0
S10CHOLST	4097	0.77	0.42	0.0	1.0
S11CHOLST	12424	0.85	0.36	0.0	1.0
S12CHOLST	172	0.70	0.46	0.0	1.0
R3FLUSHT	17958	0.49	0.50	0.0	1.0
R4FLUSHT	5090	0.53	0.50	0.0	1.0
R5FLUSHT	19548	0.61	0.49	0.0	1.0
R6FLUSHT	229	0.51	0.50	0.0	1.0
R7FLUSHT	20063	0.62	0.49	0.0	1.0
R8FLUSHT	210	0.50	0.50	0.0	1.0
R9FLUSHT	17178	0.65	0.48	0.0	1.0
R10FLUSHT	6447	0.47	0.50	0.0	1.0
R11FLUSHT	20502	0.65	0.48	0.0	1.0
R12FLUSHT	183	0.62	0.49	0.0	1.0
S3FLUSHT	11903	0.48	0.50	0.0	1.0
S4FLUSHT	3503	0.53	0.50	0.0	1.0
S5FLUSHT	12720	0.61	0.49	0.0	1.0
S6FLUSHT	213	0.52	0.50	0.0	1.0
S7FLUSHT	12951	0.62	0.49	0.0	1.0
S8FLUSHT	201	0.49	0.50	0.0	1.0
S9FLUSHT	10632	0.64	0.48	0.0	1.0
S10FLUSHT	4105	0.48	0.50	0.0	1.0
S11FLUSHT	12468	0.64	0.48	0.0	1.0
S12FLUSHT	172	0.63	0.48	0.0	1.0
R3BREAST	10464	0.58	0.49	0.0	1.0
R4BREAST	2834	0.63	0.48	0.0	1.0
R5BREAST	11419	0.60	0.49	0.0	1.0
R6BREAST	126	0.57	0.50	0.0	1.0
R7BREAST	11680	0.58	0.49	0.0	1.0
R8BREAST	110	0.60	0.49	0.0	1.0
R9BREAST	10124	0.56	0.50	0.0	1.0
R10BREAST	3525	0.61	0.49	0.0	1.0
S3BREAST	5945	0.62	0.49	0.0	1.0
S4BREAST	1755	0.64	0.48	0.0	1.0
S5BREAST	6350	0.64	0.48	0.0	1.0
S6BREAST	118	0.56	0.50	0.0	1.0
S7BREAST	6447	0.62	0.49	0.0	1.0
S8BREAST	107	0.60	0.49	0.0	1.0
S9BREAST	5302	0.60	0.49	0.0	1.0

S10BREAST	2045	0.60	0.49	0.0	1.0
R3MAMMOG	10475	0.65	0.48	0.0	1.0
R4MAMMOG	2835	0.77	0.42	0.0	1.0
R5MAMMOG	11419	0.72	0.45	0.0	1.0
R6MAMMOG	126	0.75	0.43	0.0	1.0
R7MAMMOG	11697	0.72	0.45	0.0	1.0
R8MAMMOG	110	0.74	0.44	0.0	1.0
R9MAMMOG	10116	0.71	0.45	0.0	1.0
R10MAMMOG	3524	0.74	0.44	0.0	1.0
R11MAMMOG	11945	0.67	0.47	0.0	1.0
R12MAMMOG	84	0.65	0.48	0.0	1.0
S3MAMMOG	5949	0.71	0.45	0.0	1.0
S4MAMMOG	1754	0.79	0.41	0.0	1.0
S5MAMMOG	6353	0.78	0.42	0.0	1.0
S6MAMMOG	118	0.76	0.43	0.0	1.0
S7MAMMOG	6462	0.78	0.42	0.0	1.0
S8MAMMOG	107	0.73	0.45	0.0	1.0
S9MAMMOG	5314	0.78	0.41	0.0	1.0
S10MAMMOG	2044	0.75	0.43	0.0	1.0
S11MAMMOG	6221	0.72	0.45	0.0	1.0
S12MAMMOG	79	0.66	0.48	0.0	1.0
R3PAPSM	10449	0.59	0.49	0.0	1.0
R4PAPSM	2831	0.71	0.46	0.0	1.0
R5PAPSM	11406	0.61	0.49	0.0	1.0
R6PAPSM	124	0.73	0.45	0.0	1.0
R7PAPSM	11644	0.60	0.49	0.0	1.0
R8PAPSM	107	0.72	0.45	0.0	1.0
R9PAPSM	10080	0.51	0.50	0.0	1.0
R10PAPSM	3522	0.72	0.45	0.0	1.0
R11PAPSM	11927	0.47	0.50	0.0	1.0
R12PAPSM	84	0.62	0.49	0.0	1.0
S3PAPSM	5936	0.66	0.47	0.0	1.0
S4PAPSM	1754	0.74	0.44	0.0	1.0
S5PAPSM	6349	0.69	0.46	0.0	1.0
S6PAPSM	116	0.72	0.45	0.0	1.0
S7PAPSM	6437	0.68	0.47	0.0	1.0
S8PAPSM	104	0.72	0.45	0.0	1.0
S9PAPSM	5285	0.59	0.49	0.0	1.0
S10PAPSM	2043	0.75	0.43	0.0	1.0
S11PAPSM	6212	0.54	0.50	0.0	1.0
S12PAPSM	79	0.61	0.49	0.0	1.0
R3PROST	7451	0.68	0.47	0.0	1.0
R4PROST	2249	0.70	0.46	0.0	1.0
R5PROST	8077	0.73	0.44	0.0	1.0
R6PROST	100	0.70	0.46	0.0	1.0
R7PROST	8273	0.73	0.45	0.0	1.0
R8PROST	103	0.68	0.47	0.0	1.0
R9PROST	6961	0.72	0.45	0.0	1.0
R10PROST	2878	0.59	0.49	0.0	1.0
R11PROST	8393	0.63	0.48	0.0	1.0
R12PROST	97	0.62	0.49	0.0	1.0
S3PROST	5941	0.69	0.46	0.0	1.0
S4PROST	1745	0.71	0.45	0.0	1.0

S5PROST	6343	0.75	0.43	0.0	1.0
S6PROST	93	0.71	0.46	0.0	1.0
S7PROST	6436	0.75	0.43	0.0	1.0
S8PROST	97	0.68	0.47	0.0	1.0
S9PROST	5287	0.74	0.44	0.0	1.0
S10PROST	2027	0.59	0.49	0.0	1.0
S11PROST	6143	0.66	0.47	0.0	1.0
S12PROST	91	0.65	0.48	0.0	1.0

## Categorical Variable Codes

Value		R3CHOLST	R4CHOLST	R5CHOLST	R6CHOLST	R7CHOLST
.A=Asked prv wave			15759		17219	
.D=DK/NA		141	15	114	3	283
.M=Oth missing		2	532		714	
.R=RF		2		1		1
0.No		5062	1246	4630	51	3545
1.Yes		12784	3832	14834	178	16300

Value		R8CHOLST	R9CHOLST	R10CHOLST	R11CHOLST	R12CHOLST
.A=Asked prv wave		17818		15022		18070
.D=DK/NA		6	253	20	179	
.M=Oth missing		438		562	1	494
.R=RF			2		3	
0.No		43	2565	1542	3401	56
1.Yes		164	14397	4888	16970	127

Value		S3CHOLST	S4CHOLST	S5CHOLST	S6CHOLST	S7CHOLST
.A=Asked prv wave			10176		11036	
.D=DK/NA		49	9	55	1	108
.M=Oth missing		2	296		388	
.R=RF		1		1		
.U=Unmarried		5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
0.No		3225	880	2794	45	2090
1.Yes		8638	2617	9880	169	10774

Value		S8CHOLST	S9CHOLST	S10CHOLST	S11CHOLST	S12CHOLST
.A=Asked prv wave		11313		9106		10621
.D=DK/NA		6	98	10	62	
.M=Oth missing		218		300	1	234
.R=RF			1		1	
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		317	365	722	592	593
0.No		38	1416	957	1892	52
1.Yes		160	9131	3140	10532	120

Value	R3FLUSHT	R4FLUSHT	R5FLUSHT	R6FLUSHT	R7FLUSHT
.A=Asked prv wave		15759		17219	
.D=DK/NA	28	3	31	3	63
.M=Oth missing	2	532		714	
.R=RF	3				3
0.No	9230	2371	7624	113	7684
1.Yes	8728	2719	11924	116	12379

Value	R8FLUSHT	R9FLUSHT	R10FLUSHT	R11FLUSHT	R12FLUSHT
.A=Asked prv wave	17818		15022		18070
.D=DK/NA	3	37	3	48	
.M=Oth missing	438		562	1	494
.R=RF		2		3	
0.No	106	6028	3399	7235	70
1.Yes	104	11150	3048	13267	113

Value	S3FLUSHT	S4FLUSHT	S5FLUSHT	S6FLUSHT	S7FLUSHT
.A=Asked prv wave		10176		11036	
.D=DK/NA	9	3	10	2	19
.M=Oth missing	2	296		388	
.R=RF	1				2
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	6217	1655	5019	103	4983
1.Yes	5686	1848	7701	110	7968

Value	S8FLUSHT	S9FLUSHT	S10FLUSHT	S11FLUSHT	S12FLUSHT
.A=Asked prv wave	11313		9106		10621
.D=DK/NA	3	13	2	18	
.M=Oth missing	218		300	1	234
.R=RF		1		1	
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	103	3810	2152	4428	63
1.Yes	98	6822	1953	8040	109

Value	R3BREAST	R4BREAST	R5BREAST	R6BREAST	R7BREAST
.A=Asked prv wave		9297		10176	
.D=DK/NA	38	4	43	2	94
.M=Oth missing	4	294	8	403	9
.R=RF			1	2	4
.S=Skip	7478	8955	8108	7456	8342
.X=Missing organ	7				
0.No	4360	1042	4560	54	4945
1.Yes	6104	1792	6859	72	6735

Value	R8BREAST	R9BREAST	R10BREAST
.A=Asked prv wave	10508		8939
.D=DK/NA		69	7
.M=Oth missing	266	4	349
.R=RF		2	4
.S=Skip	7585	7018	9210
0.No	44	4447	1381
1.Yes	66	5677	2144

Value	S3BREAST	S4BREAST	S5BREAST	S6BREAST	S7BREAST
.A=Asked prv wave		5089		5509	
.D=DK/NA	6	2	12		38
.M=Oth missing	2	143	3	189	5
.R=RF			1	2	3
.S=Skip	5957	6989	6364	5821	6479
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Missing organ	5				
0.No	2273	624	2269	52	2480
1.Yes	3672	1131	4081	66	3967

Value	S8BREAST	S9BREAST	S10BREAST
.A=Asked prv wave	5650		4551
.D=DK/NA		26	7
.M=Oth missing	112	2	167
.R=RF		1	3
.S=Skip	5866	5315	6740
.U=Unmarried	6417	6206	7799
.V=Spouse NR	317	365	722
0.No	43	2115	815
1.Yes	64	3187	1230

Value	R3MAMMOG	R4MAMMOG	R5MAMMOG	R6MAMMOG	R7MAMMOG
.A=Asked prv wave		9297		10176	
.D=DK/NA	37	3	43	2	76
.M=Oth missing	3	294	8	403	9
.R=RF			1	2	5
.S=Skip	7476	8955	8108	7456	8342
0.No	3684	664	3235	31	3284
1.Yes	6791	2171	8184	95	8413

Value	R8MAMMOG	R9MAMMOG	R10MAMMOG	R11MAMMOG	R12MAMMOG
.A=Asked prv wave	10508		8939		10691
.D=DK/NA		77	9	51	
.M=Oth missing	266	4	349	22	272
.R=RF		2	3	7	
.S=Skip	7585	7018	9210	8529	7700
0.No	29	2935	911	3942	29
1.Yes	81	7181	2613	8003	55



Value	S3MAMMOG	S4MAMMOG	S5MAMMOG	S6MAMMOG	S7MAMMOG
.A=Asked prv wave		5089		5509	
.D=DK/NA	10	3	9		24
.M=Oth missing	1	143	3	189	5
.R=RF			1	2	2
.S=Skip	5955	6989	6364	5821	6479
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.No	1702	377	1419	28	1431
1.Yes	4247	1377	4934	90	5031

Value	S8MAMMOG	S9MAMMOG	S10MAMMOG	S11MAMMOG	S12MAMMOG
.A=Asked prv wave	5650		4551		5326
.D=DK/NA		14	8	18	
.M=Oth missing	112	2	167	15	109
.R=RF		1	3	3	
.S=Skip	5866	5315	6740	6231	5513
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	29	1151	504	1713	27
1.Yes	78	4163	1540	4508	52

Value	R3PAPSM	R4PAPSM	R5PAPSM	R6PAPSM	R7PAPSM
.A=Asked prv wave		9297		10176	
.D=DK/NA	56	7	56	4	130
.M=Oth missing	3	294	8	403	9
.R=RF			1	2	4
.S=Skip	7476	8955	8108	7456	8342
.X=Missing organ	7				
0.No	4282	834	4393	34	4684
1.Yes	6167	1997	7013	90	6960

Value	R8PAPSM	R9PAPSM	R10PAPSM	R11PAPSM	R12PAPSM
.A=Asked prv wave	10508		8939		10691
.D=DK/NA	3	113	11	69	
.M=Oth missing	266	4	349	22	272
.R=RF		2	3	7	
.S=Skip	7585	7018	9210	8529	7700
0.No	30	4949	995	6271	32
1.Yes	77	5131	2527	5656	52

Value	S3PAPSM	S4PAPSM	S5PAPSM	S6PAPSM	S7PAPSM
.A=Asked prv wave		5089		5509	
.D=DK/NA	19	3	13	2	49
.M=Oth missing	1	143	3	189	5
.R=RF			1	2	2
.S=Skip	5955	6989	6364	5821	6479
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Missing organ	4				
0.No	2002	450	1942	32	2070
1.Yes	3934	1304	4407	84	4367

Value	S8PAPSM	S9PAPSM	S10PAPSM	S11PAPSM	S12PAPSM
.A=Asked prv wave	5650		4551		5326
.D=DK/NA	3	43	9	26	
.M=Oth missing	112	2	167	15	109
.R=RF		1	3	4	
.S=Skip	5866	5315	6740	6231	5513
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	29	2150	505	2869	31
1.Yes	75	3135	1538	3343	48

Value	R3PROST	R4PROST	R5PROST	R6PROST	R7PROST
.A=Asked prv wave		6462		7043	
.D=DK/NA	25	6	38	1	76
.M=Oth missing	3	250	4	311	10
.R=RF	2		1	1	2
.S=Skip	10505	12417	11459	10709	11768
.X=Missing organ	5				
0.No	2401	682	2161	30	2270
1.Yes	5050	1567	5916	70	6003

Value	R8PROST	R9PROST	R10PROST	R11PROST	R12PROST
.A=Asked prv wave	7310		6083		7379
.D=DK/NA		59	34	154	2
.M=Oth missing	174	6	240	12	222
.R=RF		2	2	3	
.S=Skip	10882	10189	12797	11992	11047
0.No	33	1918	1194	3090	37
1.Yes	70	5043	1684	5303	60

Value	S3PROST	S4PROST	S5PROST	S6PROST	S7PROST
.A=Asked prv wave		5087		5527	
.D=DK/NA	14	4	24	1	46
.M=Oth missing	2	159	4	199	10
.R=RF	1			1	2
.S=Skip	5952	6983	6359	5818	6478
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=Missing organ	5				
0.No	1822	509	1583	27	1613
1.Yes	4119	1236	4760	66	4823

Value	S8PROST	S9PROST	S10PROST	S11PROST	S12PROST
.A=Asked prv wave	5663		4555		5295
.D=DK/NA		29	24	100	2
.M=Oth missing	108	5	155	10	125
.R=RF		1	1	2	
.S=Skip	5867	5324	6751	6233	5514
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	31	1371	826	2108	32
1.Yes	66	3916	1201	4035	59

## How Constructed

RwCHOLST, RwFLUSHT, RwBREAST, RwMAMMOG, RwPAPSM, and RwPROST indicate whether the Respondent reports preventative health tests and procedures. The tests and procedures are a blood test for cholesterol, a flu shot, monthly self-checks for breast lumps, a mammogram, a pap smear, and a check for prostate cancer, respectively. They are asked beginning in Wave 3.

SwCHOLST, SwFLUSHT, SwBREAST, SwMAMMOG, SwPAPSM, and SwPROST are these measures for the Respondent's spouse or partner.

Every other wave beginning in Wave 4 and 6, these questions are skipped for individuals who responded to a previous wave. The analyst may want to carry prior wave values forward, e.g., Wave 3 values forward to Wave 4; this file does not do this. For re-interviewees who skipped this question in alternate waves, these variables are set to .A, asked in previous wave. In the odd waves, beginning with Wave 5, all individuals are asked these questions.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3BREAST is taken from the Wave 3 spouse's R3BREAST.

## Cross Wave Differences in Original HRS Data

The preventative behavior questions are asked beginning in Wave 3. They are not asked in Waves 1 and 2.

Every other wave, beginning with Wave 4, these questions are asked only of new Respondents. For re-interviewees, they are skipped. In the odd waves, beginning with Wave 5, all individuals are asked these questions.

Beginning in Wave 7, the interviewer has an additional prompt for the Respondent when asking about flu shots: A FLU SHOT MAY NOW BE GIVEN BY A MIST IN THE NOSE. And the interviewer has additional instructions for coding answers about breast exams: CODE 'YES' IF RESPONDENT DOES A BREAST CHECK MORE THAN ONCE A MONTH.

The question about monthly breast checks is dropped in Wave 11 so RwBREAST is not available beyond Wave 10.

Only male Respondents are asked the question about checking for prostate cancer. Only female Respondents are asked the questions about breast exams, mammograms, and pap smears.

## HRS Variables Used

### AHEAD 1995:

D919	B19B. PREVENTATIVE BEHAV FLU SHOT
D920	B19C. PREVENTATIVE BEHAV CHOLESTEROL
D925	B19F. PREVENTATIVE BEHAV BREAST LUMP
D926	B19G.PREVENTATIVE MAMMOGRAM
D927	B19H.PREVENTATIVE PAP SMEAR
D929	B19K.PREVENTATIVE BEHAV PROSTATE

### HRS 1996:

E924	B19B. PREVENTATIVE BEHAV FLU SHOT
E925	B19C. PREVENTATIVE BEHAV CHOLESTEROL
E926	B19F.PREVENTATIVE BEHAV BREAST LUMP
E927	B19G.PREVENTATIVE MAMMOGRAM
E928	B19H.PREVENTATIVE PAP SMEAR
E929	B19K.PREVENTATIVE BEHAV PROSTATE

### HRS 1998:

F1252	B19B. PREVENTATIVE BEHAV FLU SHOT
F1253	B19C. PREVENTATIVE BEHAV CHOLESTEROL
F1254	B19F.PREVENTATIVE BEHAV BREAST LUMP
F1255	B19G.PREVENTATIVE MAMMOGRAM
F1256	B19H.PREVENTATIVE PAP SMEAR
F1257	B19K.PREVENTATIVE BEHAV PROSTATE

### HRS 2000:

G1385	B19B. PREVENTATIVE BEHAV FLU SHOT
G1386	B19C.PREVENTATIVE BEHAV CHOLESTEROL
G1387	B19F.PREVENTATIVE BEHAV BREAST LUMP
G1388	B19G.PREVENTATIVE MAMMOGRAM
G1389	B19H.PREVENTATIVE PAP SMEAR
G1390	B19K.PREVENTATIVE BEHAV PROSTATE

### HRS 2002:

HC109	PREVENTATIVE FLU SHOT SINCE PREV WAVE
HC110	CHOLESTEROL TEST SINCE PREV WAVE
HC111	CHECK FOR BREAST LUMPS SINCE PREV WAVE
HC112	MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE
HC113	PAP SMEAR SINCE PREV WAVE
HC114	PROSTATE EXAM SINCE PREV WAVE

### HRS 2004:

JC109	PREVENTATIVE FLU SHOT SINCE PREV WAVE
JC110	CHOLESTEROL TEST SINCE PREV WAVE
JC111	CHECK FOR BREAST LUMPS SINCE PREV WAVE
JC112	MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE
JC113	PAP SMEAR SINCE PREV WAVE
JC114	PROSTATE EXAM SINCE PREV WAVE

### HRS 2006:

KC109	PREVENTATIVE FLU SHOT SINCE PREV WAVE
KC110	CHOLESTEROL TEST SINCE PREV WAVE
KC111	CHECK FOR BREAST LUMPS SINCE PREV WAVE
KC112	MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE
KC113	PAP SMEAR SINCE PREV WAVE
KC114	PROSTATE EXAM SINCE PREV WAVE

HRS 2008:  
LC109 PREVENTATIVE FLU SHOT SINCE PREV WAVE  
LC110 CHOLESTEROL TEST SINCE PREV WAVE  
LC111 CHECK FOR BREAST LUMPS SINCE PREV WAVE  
LC112 MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE  
LC113 PAP SMEAR SINCE PREV WAVE  
LC114 PROSTATE EXAM SINCE PREV WAVE  
HRS 2010:  
MC109 PREVENTATIVE FLU SHOT SINCE PREV WAVE  
MC110 CHOLESTEROL TEST SINCE PREV WAVE  
MC111 CHECK FOR BREAST LUMPS SINCE PREV WAVE  
MC112 MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE  
MC113 PAP SMEAR SINCE PREV WAVE  
MC114 PROSTATE EXAM SINCE PREV WAVE  
HRS 2012:  
NC109 PREVENTATIVE FLU SHOT SINCE PREV WAVE  
NC110 CHOLESTEROL TEST SINCE PREV WAVE  
NC112 MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE  
NC113 PAP SMEAR SINCE PREV WAVE  
NC114 PROSTATE EXAM SINCE PREV WAVE  
HRS 2014:  
OC109 PREVENTATIVE FLU SHOT SINCE PREV WAVE  
OC110 CHOLESTEROL TEST SINCE PREV WAVE  
OC112 MAMMOGRAM/XRAY OF BREAST SINCE PREV WAVE  
OC113 PAP SMEAR SINCE PREV WAVE  
OC114 PROSTATE EXAM SINCE PREV WAVE

### Health behaviors: Smoking (Cigarettes)

Wave	Variable	Label	Type
1	R1SMOKEV	R1SMOKEV:W1 R smoke ever	Categ
2	R2SMOKEV	R2SMOKEV:W2 R smoke ever	Categ
3	R3SMOKEV	R3SMOKEV:W3 R smoke ever	Categ
4	R4SMOKEV	R4SMOKEV:W4 R smoke ever	Categ
5	R5SMOKEV	R5SMOKEV:W5 R smoke ever	Categ
6	R6SMOKEV	R6SMOKEV:W6 R smoke ever	Categ
7	R7SMOKEV	R7SMOKEV:W7 R smoke ever	Categ
8	R8SMOKEV	R8SMOKEV:W8 R smoke ever	Categ
9	R9SMOKEV	R9SMOKEV:W9 R smoke ever	Categ
10	R10SMOKEV	R10SMOKEV:W10 R smoke ever	Categ
11	R11SMOKEV	R11SMOKEV:W11 R smoke ever	Categ
12	R12SMOKEV	R12SMOKEV:W12 R smoke ever	Categ
1	S1SMOKEV	S1SMOKEV:W1 S smoke ever	Categ
2	S2SMOKEV	S2SMOKEV:W2 S smoke ever	Categ
3	S3SMOKEV	S3SMOKEV:W3 S smoke ever	Categ
4	S4SMOKEV	S4SMOKEV:W4 S smoke ever	Categ
5	S5SMOKEV	S5SMOKEV:W5 S smoke ever	Categ
6	S6SMOKEV	S6SMOKEV:W6 S smoke ever	Categ
7	S7SMOKEV	S7SMOKEV:W7 S smoke ever	Categ
8	S8SMOKEV	S8SMOKEV:W8 S smoke ever	Categ
9	S9SMOKEV	S9SMOKEV:W9 S smoke ever	Categ
10	S10SMOKEV	S10SMOKEV:W10 S smoke ever	Categ
11	S11SMOKEV	S11SMOKEV:W11 S smoke ever	Categ
12	S12SMOKEV	S12SMOKEV:W12 S smoke ever	Categ
1	R1SMOKEN	R1SMOKEN:W1 R smokes now	Categ
2	R2SMOKEN	R2SMOKEN:W2 R smokes now	Categ
3	R3SMOKEN	R3SMOKEN:W3 R smokes now	Categ
4	R4SMOKEN	R4SMOKEN:W4 R smokes now	Categ
5	R5SMOKEN	R5SMOKEN:W5 R smokes now	Categ
6	R6SMOKEN	R6SMOKEN:W6 R smokes now	Categ
7	R7SMOKEN	R7SMOKEN:W7 R smokes now	Categ
8	R8SMOKEN	R8SMOKEN:W8 R smokes now	Categ
9	R9SMOKEN	R9SMOKEN:W9 R smokes now	Categ
10	R10SMOKEN	R10SMOKEN:W10 R smokes now	Categ
11	R11SMOKEN	R11SMOKEN:W11 R smokes now	Categ
12	R12SMOKEN	R12SMOKEN:W12 R smokes now	Categ
1	S1SMOKEN	S1SMOKEN:W1 S smokes now	Categ
2	S2SMOKEN	S2SMOKEN:W2 S smokes now	Categ
3	S3SMOKEN	S3SMOKEN:W3 S smokes now	Categ
4	S4SMOKEN	S4SMOKEN:W4 S smokes now	Categ
5	S5SMOKEN	S5SMOKEN:W5 S smokes now	Categ
6	S6SMOKEN	S6SMOKEN:W6 S smokes now	Categ
7	S7SMOKEN	S7SMOKEN:W7 S smokes now	Categ
8	S8SMOKEN	S8SMOKEN:W8 S smokes now	Categ
9	S9SMOKEN	S9SMOKEN:W9 S smokes now	Categ
10	S10SMOKEN	S10SMOKEN:W10 S smokes now	Categ
11	S11SMOKEN	S11SMOKEN:W11 S smokes now	Categ
12	S12SMOKEN	S12SMOKEN:W12 S smokes now	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SMOKEV	12652	0.63	0.48	0.0	1.0
R2SMOKEV	19571	0.59	0.49	0.0	1.0
R3SMOKEV	17731	0.59	0.49	0.0	1.0
R4SMOKEV	21175	0.59	0.49	0.0	1.0
R5SMOKEV	19390	0.59	0.49	0.0	1.0

R6SMOKEV	17986	0.58	0.49	0.0	1.0
R7SMOKEV	19961	0.58	0.49	0.0	1.0
R8SMOKEV	18313	0.57	0.49	0.0	1.0
R9SMOKEV	17072	0.57	0.50	0.0	1.0
R10SMOKEV	21904	0.57	0.50	0.0	1.0
R11SMOKEV	20439	0.56	0.50	0.0	1.0
R12SMOKEV	18642	0.56	0.50	0.0	1.0
S1SMOKEV	9900	0.63	0.48	0.0	1.0
S2SMOKEV	13020	0.61	0.49	0.0	1.0
S3SMOKEV	11680	0.61	0.49	0.0	1.0
S4SMOKEV	13798	0.60	0.49	0.0	1.0
S5SMOKEV	12582	0.60	0.49	0.0	1.0
S6SMOKEV	11501	0.59	0.49	0.0	1.0
S7SMOKEV	12849	0.58	0.49	0.0	1.0
S8SMOKEV	11620	0.58	0.49	0.0	1.0
S9SMOKEV	10544	0.57	0.49	0.0	1.0
S10SMOKEV	13424	0.56	0.50	0.0	1.0
S11SMOKEV	12416	0.55	0.50	0.0	1.0
S12SMOKEV	10968	0.55	0.50	0.0	1.0
R1SMOKEN	12652	0.27	0.44	0.0	1.0
R2SMOKEN	19635	0.19	0.39	0.0	1.0
R3SMOKEN	17640	0.17	0.37	0.0	1.0
R4SMOKEN	21381	0.17	0.37	0.0	1.0
R5SMOKEN	19577	0.15	0.36	0.0	1.0
R6SMOKEN	18164	0.14	0.35	0.0	1.0
R7SMOKEN	19952	0.15	0.36	0.0	1.0
R8SMOKEN	18309	0.14	0.35	0.0	1.0
R9SMOKEN	17070	0.13	0.34	0.0	1.0
R10SMOKEN	21901	0.16	0.36	0.0	1.0
R11SMOKEN	20436	0.15	0.35	0.0	1.0
R12SMOKEN	18638	0.13	0.34	0.0	1.0
S1SMOKEN	9900	0.25	0.43	0.0	1.0
S2SMOKEN	13085	0.18	0.39	0.0	1.0
S3SMOKEN	11664	0.17	0.37	0.0	1.0
S4SMOKEN	13978	0.16	0.36	0.0	1.0
S5SMOKEN	12729	0.14	0.35	0.0	1.0
S6SMOKEN	11638	0.13	0.34	0.0	1.0
S7SMOKEN	12846	0.14	0.35	0.0	1.0
S8SMOKEN	11618	0.13	0.33	0.0	1.0
S9SMOKEN	10543	0.11	0.32	0.0	1.0
S10SMOKEN	13421	0.14	0.35	0.0	1.0
S11SMOKEN	12415	0.13	0.33	0.0	1.0
S12SMOKEN	10967	0.11	0.32	0.0	1.0

## Categorical Variable Codes

Value	R1SMOKEV	R2SMOKEV	R3SMOKEV	R4SMOKEV	R5SMOKEV	R6SMOKEV	R7SMOKEV
.M=Oth missing		71	260	209	189	178	168
.R=RF						1	
0.No	4626	8054	7313	8681	8008	7497	8479
1.Yes	8026	11517	10418	12494	11382	10489	11482

Value	R8SMOKEV	R9SMOKEV	R10SMOKEV	R11SMOKEV	R12SMOKEV
.D=DK/NA			2		
.M=Oth missing	156	145	128	115	105
0.No	7851	7366	9522	8972	8251
1.Yes	10462	9706	12382	11467	10391

Value	S1SMOKEV	S2SMOKEV	S3SMOKEV	S4SMOKEV	S5SMOKEV	S6SMOKEV	S7SMOKEV
.M=Oth missing		68	235	180	148	137	123
.R=RF						1	
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	3688	5023	4532	5456	5021	4676	5393
1.Yes	6212	7997	7148	8342	7561	6825	7456

Value	S8SMOKEV	S9SMOKEV	S10SMOKEV	S11SMOKEV	S12SMOKEV
.D=DK/NA			2		
.M=Oth missing	115	102	87	72	59
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	4909	4513	5919	5539	4905
1.Yes	6711	6031	7505	6877	6063

Value	R1SMOKEN	R2SMOKEN	R3SMOKEN	R4SMOKEN	R5SMOKEN	R6SMOKEN	R7SMOKEN
.D=DK/NA		5		2	1		1
.M=Oth missing			350			1	175
.R=RF		2	1	1	1		1
0.No	9214	15990	14670	17818	16607	15632	16940
1.Yes	3438	3645	2970	3563	2970	2532	3012

Value	R8SMOKEN	R9SMOKEN	R10SMOKEN	R11SMOKEN	R12SMOKEN
.D=DK/NA	2	1	1	2	3
.M=Oth missing	158	146	132	116	105
.R=RF					1
0.No	15778	14836	18478	17464	16196
1.Yes	2531	2234	3423	2972	2442



Value	S1SMOKEN	S2SMOKEN	S3SMOKEN	S4SMOKEN	S5SMOKEN	S6SMOKEN	S7SMOKEN
.D=DK/NA		1					1
.M=Oth missing			250			1	125
.R=RF		2	1		1		
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	7429	10667	9729	11789	10919	10095	11070
1.Yes	2471	2418	1935	2189	1810	1543	1776

Value	S8SMOKEN	S9SMOKEN	S10SMOKEN	S11SMOKEN	S12SMOKEN
.D=DK/NA			1	1	1
.M=Oth missing	117	103	91	72	59
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10130	9332	11560	10840	9729
1.Yes	1488	1211	1861	1575	1238

## How Constructed

RwSMOKEV indicates whether the Respondent ever smoked cigarettes. RwSMOKEN indicates whether the Respondent smokes now. SwSMOKEV and SwSMOKEN are this information for the Respondent's spouse or partner.

These variables are recoded for missings into yes/no indicators. Since the ever-smoked question is usually only asked at the Respondent's first interview, the answer is carried forward for RwSMOKEV in subsequent waves. If at any wave a Respondent says s/he currently smokes cigarettes, i.e., RwSMOKEN is yes, RwSMOKEV is set to yes in that and all subsequent waves.

Until Wave 7, Respondents were asked if they smoke now regardless of whether they'd ever smoked. Beginning in Wave 7, both the ever and now smoking questions are usually skipped if the Respondent had previously stated that s/he had never smoked. If the questions were skipped for this reason, RwSMOKEV and RwSMOKEN are set to "0. No". We verified this assumption by observing that Respondents who had never smoked in an earlier wave rarely respond "yes" to smoking cigarettes in a subsequent wave.

The spouse variables are taken from the Wave 'w' spouse's self-reported information, e.g., S3SMOKEN is taken from the Wave 3 spouse's R3SMOKEN.

## Cross Wave Differences in Original HRS Data

In Wave 1 all Respondents are asked: "Have you ever smoked cigarettes?"

This question is not asked in Waves 2H and 3. Beginning in Wave 4, it is asked of new interviewees.

In Wave 2A question asks: "How would you describe yourself; as a current smoker, as a former smoker, or as someone who has never smoked?"

In all waves, except Wave 2A, a question asks: "Do you smoke cigarettes now?"

The answers to these questions are "yes" and "no." In some waves, cigars or pipes are given as coded answers.

In Waves 2H and 3A, this question is asked of everyone. In Wave 3H, this question is usually skipped if the Respondent said

"no" to having ever smoked in a previous wave. In Waves 4 to 6, the question is usually skipped if a new interviewee said no to the ever smoked question. It is asked of all new interviewees who ever smoked and all re-interviewees.

Beginning in Wave 7, both the ever and now smoking questions are usually skipped if the Respondent had previously stated that s/he had never smoked.

## HRS Variables Used

HRS 1992:	
V501	B35:EVER SMOKED :IMP
V502	B35A:CURRENTLY SMOKE:IMP
AHEAD 1993:	
B298	B19. SMOKER (CURRENT/FORMER/NEVER)
HRS 1994:	
W452	B40.SMOKE CIGARETTES
AHEAD 1995:	
D942	B20. SMOKE CIG
HRS 1996:	
E107	PREV WAVE EVER SMOKED
E942	B20. SMOKE CIG
HRS 1998:	
F1266	B20-1. EVER SMOKE
F1267	B20. SMOKE CIG
HRS 2000:	
G1399	B20-1. EVER SMOKE
G1400	B20.SMOKE CIGARETTES NOW
HRS 2002:	
HC116	EVER SMOKE
HC117	SMOKE CIGARETTES NOW
HRS 2004:	
JC116	EVER SMOKE
JC117	SMOKE CIGARETTES NOW
HRS 2006:	
KC116	EVER SMOKE
KC117	SMOKE CIGARETTES NOW
HRS 2008:	
LC116	EVER SMOKE
LC117	SMOKE CIGARETTES NOW
HRS 2010:	
MC116	EVER SMOKE
MC117	SMOKE CIGARETTES NOW
HRS 2012:	
NC116	EVER SMOKE
NC117	SMOKE CIGARETTES NOW
HRS 2014:	
OC116	EVER SMOKE
OC117	SMOKE CIGARETTES NOW

### Change in Health: Self-reported health

Wave	Variable	Label	Type
2	R2SHLTC	R2SHLTC:W2 Change in self-reported hlth	Cont
3	R3SHLTC	R3SHLTC:W3 Change in self-reported hlth	Cont
4	R4SHLTC	R4SHLTC:W4 Change in self-reported hlth	Cont
5	R5SHLTC	R5SHLTC:W5 Change in self-reported hlth	Cont
6	R6SHLTC	R6SHLTC:W6 Change in self-reported hlth	Cont
7	R7SHLTC	R7SHLTC:W7 Change in self-reported hlth	Cont
8	R8SHLTC	R8SHLTC:W8 Change in self-reported hlth	Cont
9	R9SHLTC	R9SHLTC:W9 Change in self-reported hlth	Cont
10	R10SHLTC	R10SHLTC:W10 Change in self-reported hlth	Cont
11	R11SHLTC	R11SHLTC:W11 Change in self-reported hlth	Cont
12	R12SHLTC	R12SHLTC:W12 Change in self-reported hlth	Cont
2	S2SHLTC	S2SHLTC:W2 Change in self-reported hlth	Cont
3	S3SHLTC	S3SHLTC:W3 Change in self-reported hlth	Cont
4	S4SHLTC	S4SHLTC:W4 Change in self-reported hlth	Cont
5	S5SHLTC	S5SHLTC:W5 Change in self-reported hlth	Cont
6	S6SHLTC	S6SHLTC:W6 Change in self-reported hlth	Cont
7	S7SHLTC	S7SHLTC:W7 Change in self-reported hlth	Cont
8	S8SHLTC	S8SHLTC:W8 Change in self-reported hlth	Cont
9	S9SHLTC	S9SHLTC:W9 Change in self-reported hlth	Cont
10	S10SHLTC	S10SHLTC:W10 Change in self-reported hlth	Cont
11	S11SHLTC	S11SHLTC:W11 Change in self-reported hlth	Cont
12	S12SHLTC	S12SHLTC:W12 Change in self-reported hlth	Cont
2	R2SHLTCF	R2SHLTCF:W2 Flag chg self-reported hlth	Categ
3	R3SHLTCF	R3SHLTCF:W3 Flag chg self-reported hlth	Categ
4	R4SHLTCF	R4SHLTCF:W4 Flag chg self-reported hlth	Categ
5	R5SHLTCF	R5SHLTCF:W5 Flag chg self-reported hlth	Categ
6	R6SHLTCF	R6SHLTCF:W6 Flag chg self-reported hlth	Categ
7	R7SHLTCF	R7SHLTCF:W7 Flag chg self-reported hlth	Categ
8	R8SHLTCF	R8SHLTCF:W8 Flag chg self-reported hlth	Categ
9	R9SHLTCF	R9SHLTCF:W9 Flag chg self-reported hlth	Categ
10	R10SHLTCF	R10SHLTCF:W10 Flag chg self-reported hlth	Categ
11	R11SHLTCF	R11SHLTCF:W11 Flag chg self-reported hlth	Categ
12	R12SHLTCF	R12SHLTCF:W12 Flag chg self-reported hlth	Categ
2	S2SHLTCF	S2SHLTCF:W2 Flag chg self-reported hlth	Categ
3	S3SHLTCF	S3SHLTCF:W3 Flag chg self-reported hlth	Categ
4	S4SHLTCF	S4SHLTCF:W4 Flag chg self-reported hlth	Categ
5	S5SHLTCF	S5SHLTCF:W5 Flag chg self-reported hlth	Categ
6	S6SHLTCF	S6SHLTCF:W6 Flag chg self-reported hlth	Categ
7	S7SHLTCF	S7SHLTCF:W7 Flag chg self-reported hlth	Categ
8	S8SHLTCF	S8SHLTCF:W8 Flag chg self-reported hlth	Categ
9	S9SHLTCF	S9SHLTCF:W9 Flag chg self-reported hlth	Categ
10	S10SHLTCF	S10SHLTCF:W10 Flag chg self-reported hlth	Categ
11	S11SHLTCF	S11SHLTCF:W11 Flag chg self-reported hlth	Categ
12	S12SHLTCF	S12SHLTCF:W12 Flag chg self-reported hlth	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SHLTC	11419	0.10	0.92	-4.0	4.0
R3SHLTC	17706	0.04	0.95	-4.0	4.0
R4SHLTC	16281	0.27	0.96	-4.0	4.0
R5SHLTC	19303	-0.02	0.94	-4.0	4.0
R6SHLTC	17919	0.11	0.93	-4.0	4.0
R7SHLTC	16632	0.11	0.91	-4.0	4.0
R8SHLTC	18225	0.06	0.89	-4.0	4.0
R9SHLTC	17041	0.12	0.89	-4.0	4.0

R10SHLTC	15578	0.03	0.90	-4.0	4.0
R11SHLTC	20194	0.04	0.88	-4.0	4.0
R12SHLTC	18535	0.11	0.86	-4.0	4.0
S2SHLTC	8738	0.10	0.91	-4.0	4.0
S3SHLTC	11667	0.05	0.93	-4.0	4.0
S4SHLTC	10466	0.27	0.91	-4.0	4.0
S5SHLTC	12476	-0.02	0.92	-4.0	4.0
S6SHLTC	11423	0.10	0.89	-4.0	4.0
S7SHLTC	10477	0.12	0.87	-4.0	4.0
S8SHLTC	11518	0.05	0.87	-4.0	4.0
S9SHLTC	10491	0.13	0.86	-4.0	4.0
S10SHLTC	9412	0.03	0.87	-4.0	4.0
S11SHLTC	12162	0.04	0.86	-4.0	4.0
S12SHLTC	10844	0.12	0.84	-4.0	4.0
R2SHLTCF	11419	0.00	0.00	0.0	0.0
R3SHLTCF	17706	0.02	0.14	0.0	1.0
R4SHLTCF	16281	0.04	0.23	0.0	2.0
R5SHLTCF	19303	0.03	0.24	0.0	3.0
R6SHLTCF	17919	0.06	0.34	0.0	4.0
R7SHLTCF	16632	0.05	0.33	0.0	5.0
R8SHLTCF	18225	0.04	0.30	0.0	6.0
R9SHLTCF	17041	0.05	0.35	0.0	7.0
R10SHLTCF	15578	0.07	0.44	0.0	8.0
R11SHLTCF	20194	0.04	0.33	0.0	9.0
R12SHLTCF	18535	0.04	0.29	0.0	8.0
S2SHLTCF	8738	0.00	0.00	0.0	0.0
S3SHLTCF	11667	0.02	0.14	0.0	1.0
S4SHLTCF	10466	0.03	0.22	0.0	2.0
S5SHLTCF	12476	0.03	0.21	0.0	3.0
S6SHLTCF	11423	0.05	0.30	0.0	4.0
S7SHLTCF	10477	0.04	0.32	0.0	5.0
S8SHLTCF	11518	0.03	0.27	0.0	6.0
S9SHLTCF	10491	0.04	0.28	0.0	7.0
S10SHLTCF	9412	0.06	0.41	0.0	8.0
S11SHLTCF	12162	0.03	0.29	0.0	9.0
S12SHLTCF	10844	0.03	0.23	0.0	6.0

## Categorical Variable Codes

Value	R2SHLTCF	R3SHLTCF	R4SHLTCF	R5SHLTCF	R6SHLTCF	R7SHLTCF
.M=Oth missing	8223	285	5103	276	246	3497
0.Used IW-1	11419	17340	15749	18848	17210	16181
1.Used IW-2		366	413	298	482	274
2.Used IW-3			119	114	119	87
3.Used IW-4				43	71	47
4.Used IW-5					37	27
5.Used IW-6						16

Value	R8SHLTCF	R9SHLTCF	R10SHLTCF	R11SHLTCF	R12SHLTCF
.M=Oth missing	244	176	6456	360	212
0.Used IW-1	17787	16461	15015	19754	18044
1.Used IW-2	255	404	292	258	364
2.Used IW-3	114	91	138	89	72
3.Used IW-4	39	53	60	56	25
4.Used IW-5	17	16	39	17	17
5.Used IW-6	9	5	18	7	4
6.Used IW-7	4	6	11	3	5
7.Used IW-8		5	2	4	3
8.Used IW-9			3	4	1
9.Used IW-10				2	

Value	S2SHLTCF	S3SHLTCF	S4SHLTCF	S5SHLTCF	S6SHLTCF	S7SHLTCF
.M=Oth missing	4350	248	3512	254	216	2495
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.Used IW-1	8738	11426	10170	12232	11038	10252
1.Used IW-2		241	229	164	277	131
2.Used IW-3			67	62	55	43
3.Used IW-4				18	38	22
4.Used IW-5					15	16
5.Used IW-6						13

Value	S8SHLTCF	S9SHLTCF	S10SHLTCF	S11SHLTCF	S12SHLTCF
.M=Oth missing	217	155	4101	326	183
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	11300	10219	9111	11925	10611
1.Used IW-2	121	200	154	145	176
2.Used IW-3	64	41	79	44	35
3.Used IW-4	21	17	32	33	12
4.Used IW-5	8	8	23	11	9
5.Used IW-6		5	6	2	
6.Used IW-7	4		5		1
7.Used IW-8		1			
8.Used IW-9			2		
9.Used IW-10				2	

## How Constructed

The change in health measures were chosen for their consistency across waves. They include measures of overall health, functional limitation summaries, doctor-diagnosed health conditions, and assessment of mortality measures.

They are calculated as the current wave less the previous interview measures. If the Respondent missed an interview due to non-response, the change is between the current and the last interview that the Respondent did respond to. A flag for each change variable indicates how many interviews were missed prior to the current.

For further discussion of the Change in Health variables, see the section titled "Health Change" earlier in this document.

RwSHLTC is the change in self-reported health status from the previous to the current interview. RwSHLTCF indicates how far back the previous interview is. SwSHLTC and SwSHLTCF are this information for the Respondent's spouse or partner.

The derivation of RwSHLTC is:

$$\text{RwSHLTC} = \text{RwSHLT} - \text{RpSHLT}$$

Where "w" means current wave and "p" means the previous interview. For example, if an individual responded to Waves 2 and 3, R3SHLTC = R3SHLT - R2SHLT. Since a lower number means better health in the RwSHLT variables, a positive value for RwSHLTC indicates a decline in self-rated health.

Not all individuals respond to every interview. Respondents may miss one or more interviews between those they complete. RwSHLTCF indicates if there are any missed interviews prior to the current, and if so, how many. In other words, it indicates how far back the previous interview is, from which the change is measured. Its codes are: 0) did not miss the previous interview; change = current - [current-1]; 1) missed the previous interview, but only one; change = current - [current-2]; 2) missed the two previous interviews; change = current - [current-3]; 3) missed the three previous interviews; change = current - [current-4]; 4) missed the four previous interviews; change = current - [current-5]; 5) missed the five previous interviews; change = current - [current-6]; 9) either the current or previous interview measure is missing, so change is missing.

Please see also the self-reported change in health variable RwHLTC described earlier in this section, and the description of the self-reported health variable RwSHLT. Note that RwHLTC asks the Respondent to assess retrospectively how her/his health has changed since the last interview, while RwSHLTC compares measures of self-reported current health from the two time points.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3SHLTC is taken from the Wave 3 spouse's R3SHLTC.

### **Cross Wave Differences in Original HRS Data**

Please see the documentation of the variables used to derive these change-in-health variables for a description of cross-wave differences in the raw HRS data.

### Change in Health: Functional Limitations

Wave	Variable	Label	Type
3	R3ADLC	R3ADLC:W3 Change-ADLs /0-5	Cont
4	R4ADLC	R4ADLC:W4 Change-ADLs /0-5	Cont
5	R5ADLC	R5ADLC:W5 Change-ADLs /0-5	Cont
6	R6ADLC	R6ADLC:W6 Change-ADLs /0-5	Cont
7	R7ADLC	R7ADLC:W7 Change-ADLs /0-5	Cont
8	R8ADLC	R8ADLC:W8 Change-ADLs /0-5	Cont
9	R9ADLC	R9ADLC:W9 Change-ADLs /0-5	Cont
10	R10ADLC	R10ADLC:W10 Change-ADLs /0-5	Cont
11	R11ADLC	R11ADLC:W11 Change-ADLs /0-5	Cont
12	R12ADLC	R12ADLC:W12 Change-ADLs /0-5	Cont
3	S3ADLC	S3ADLC:W3 Change-ADLs /0-5	Cont
4	S4ADLC	S4ADLC:W4 Change-ADLs /0-5	Cont
5	S5ADLC	S5ADLC:W5 Change-ADLs /0-5	Cont
6	S6ADLC	S6ADLC:W6 Change-ADLs /0-5	Cont
7	S7ADLC	S7ADLC:W7 Change-ADLs /0-5	Cont
8	S8ADLC	S8ADLC:W8 Change-ADLs /0-5	Cont
9	S9ADLC	S9ADLC:W9 Change-ADLs /0-5	Cont
10	S10ADLC	S10ADLC:W10 Change-ADLs /0-5	Cont
11	S11ADLC	S11ADLC:W11 Change-ADLs /0-5	Cont
12	S12ADLC	S12ADLC:W12 Change-ADLs /0-5	Cont
3	R3ADLF	R3ADLF:W3 Chg Flag-ADLs /0-5	Categ
4	R4ADLF	R4ADLF:W4 Chg Flag-ADLs /0-5	Categ
5	R5ADLF	R5ADLF:W5 Chg Flag-ADLs /0-5	Categ
6	R6ADLF	R6ADLF:W6 Chg Flag-ADLs /0-5	Categ
7	R7ADLF	R7ADLF:W7 Chg Flag-ADLs /0-5	Categ
8	R8ADLF	R8ADLF:W8 Chg Flag-ADLs /0-5	Categ
9	R9ADLF	R9ADLF:W9 Chg Flag-ADLs /0-5	Categ
10	R10ADLF	R10ADLF:W10 Chg Flag-ADLs /0-5	Categ
11	R11ADLF	R11ADLF:W11 Chg Flag-ADLs /0-5	Categ
12	R12ADLF	R12ADLF:W12 Chg Flag-ADLs /0-5	Categ
3	S3ADLF	S3ADLF:W3 Chg Flag-ADLs /0-5	Categ
4	S4ADLF	S4ADLF:W4 Chg Flag-ADLs /0-5	Categ
5	S5ADLF	S5ADLF:W5 Chg Flag-ADLs /0-5	Categ
6	S6ADLF	S6ADLF:W6 Chg Flag-ADLs /0-5	Categ
7	S7ADLF	S7ADLF:W7 Chg Flag-ADLs /0-5	Categ
8	S8ADLF	S8ADLF:W8 Chg Flag-ADLs /0-5	Categ
9	S9ADLF	S9ADLF:W9 Chg Flag-ADLs /0-5	Categ
10	S10ADLF	S10ADLF:W10 Chg Flag-ADLs /0-5	Categ
11	S11ADLF	S11ADLF:W11 Chg Flag-ADLs /0-5	Categ
12	S12ADLF	S12ADLF:W12 Chg Flag-ADLs /0-5	Categ
3	R3GROSSC	R3GROSSC:W3 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
4	R4GROSSC	R4GROSSC:W4 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
5	R5GROSSC	R5GROSSC:W5 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
6	R6GROSSC	R6GROSSC:W6 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
7	R7GROSSC	R7GROSSC:W7 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
8	R8GROSSC	R8GROSSC:W8 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
9	R9GROSSC	R9GROSSC:W9 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
10	R10GROSSC	R10GROSSC:W10 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
11	R11GROSSC	R11GROSSC:W11 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
12	R12GROSSC	R12GROSSC:W12 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
3	S3GROSSC	S3GROSSC:W3 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
4	S4GROSSC	S4GROSSC:W4 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
5	S5GROSSC	S5GROSSC:W5 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
6	S6GROSSC	S6GROSSC:W6 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
7	S7GROSSC	S7GROSSC:W7 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
8	S8GROSSC	S8GROSSC:W8 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
9	S9GROSSC	S9GROSSC:W9 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
10	S10GROSSC	S10GROSSC:W10 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
11	S11GROSSC	S11GROSSC:W11 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont
12	S12GROSSC	S12GROSSC:W12 Chg:Walk1/R,Clim1,Bed,Bath/5	Cont

3	R3GROSSF	R3GROSSF:W3 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
4	R4GROSSF	R4GROSSF:W4 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
5	R5GROSSF	R5GROSSF:W5 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
6	R6GROSSF	R6GROSSF:W6 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
7	R7GROSSF	R7GROSSF:W7 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
8	R8GROSSF	R8GROSSF:W8 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
9	R9GROSSF	R9GROSSF:W9 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
10	R10GROSSF	R10GROSSF:W10 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
11	R11GROSSF	R11GROSSF:W11 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
12	R12GROSSF	R12GROSSF:W12 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
3	S3GROSSF	S3GROSSF:W3 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
4	S4GROSSF	S4GROSSF:W4 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
5	S5GROSSF	S5GROSSF:W5 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
6	S6GROSSF	S6GROSSF:W6 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
7	S7GROSSF	S7GROSSF:W7 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
8	S8GROSSF	S8GROSSF:W8 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
9	S9GROSSF	S9GROSSF:W9 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
10	S10GROSSF	S10GROSSF:W10 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
11	S11GROSSF	S11GROSSF:W11 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
12	S12GROSSF	S12GROSSF:W12 ChgF:Walk1/R,Clim1,Bed,Bath /0-5	Categ
3	R3FINEC	R3FINEC:W3 Chg:Dime,Eat,Dress /0-3	Cont
4	R4FINEC	R4FINEC:W4 Chg:Dime,Eat,Dress /0-3	Cont
5	R5FINEC	R5FINEC:W5 Chg:Dime,Eat,Dress /0-3	Cont
6	R6FINEC	R6FINEC:W6 Chg:Dime,Eat,Dress /0-3	Cont
7	R7FINEC	R7FINEC:W7 Chg:Dime,Eat,Dress /0-3	Cont
8	R8FINEC	R8FINEC:W8 Chg:Dime,Eat,Dress /0-3	Cont
9	R9FINEC	R9FINEC:W9 Chg:Dime,Eat,Dress /0-3	Cont
10	R10FINEC	R10FINEC:W10 Chg:Dime,Eat,Dress /0-3	Cont
11	R11FINEC	R11FINEC:W11 Chg:Dime,Eat,Dress /0-3	Cont
12	R12FINEC	R12FINEC:W12 Chg:Dime,Eat,Dress /0-3	Cont
3	S3FINEC	S3FINEC:W3 Chg:Dime,Eat,Dress /0-3	Cont
4	S4FINEC	S4FINEC:W4 Chg:Dime,Eat,Dress /0-3	Cont
5	S5FINEC	S5FINEC:W5 Chg:Dime,Eat,Dress /0-3	Cont
6	S6FINEC	S6FINEC:W6 Chg:Dime,Eat,Dress /0-3	Cont
7	S7FINEC	S7FINEC:W7 Chg:Dime,Eat,Dress /0-3	Cont
8	S8FINEC	S8FINEC:W8 Chg:Dime,Eat,Dress /0-3	Cont
9	S9FINEC	S9FINEC:W9 Chg:Dime,Eat,Dress /0-3	Cont
10	S10FINEC	S10FINEC:W10 Chg:Dime,Eat,Dress /0-3	Cont
11	S11FINEC	S11FINEC:W11 Chg:Dime,Eat,Dress /0-3	Cont
12	S12FINEC	S12FINEC:W12 Chg:Dime,Eat,Dress /0-3	Cont
3	R3FINEF	R3FINEF:W3 ChgF:Dime,Eat,Dress /0-3	Categ
4	R4FINEF	R4FINEF:W4 ChgF:Dime,Eat,Dress /0-3	Categ
5	R5FINEF	R5FINEF:W5 ChgF:Dime,Eat,Dress /0-3	Categ
6	R6FINEF	R6FINEF:W6 ChgF:Dime,Eat,Dress /0-3	Categ
7	R7FINEF	R7FINEF:W7 ChgF:Dime,Eat,Dress /0-3	Categ
8	R8FINEF	R8FINEF:W8 ChgF:Dime,Eat,Dress /0-3	Categ
9	R9FINEF	R9FINEF:W9 ChgF:Dime,Eat,Dress /0-3	Categ
10	R10FINEF	R10FINEF:W10 ChgF:Dime,Eat,Dress /0-3	Categ
11	R11FINEF	R11FINEF:W11 ChgF:Dime,Eat,Dress /0-3	Categ
12	R12FINEF	R12FINEF:W12 ChgF:Dime,Eat,Dress /0-3	Categ
3	S3FINEF	S3FINEF:W3 ChgF:Dime,Eat,Dress /0-3	Categ
4	S4FINEF	S4FINEF:W4 ChgF:Dime,Eat,Dress /0-3	Categ
5	S5FINEF	S5FINEF:W5 ChgF:Dime,Eat,Dress /0-3	Categ
6	S6FINEF	S6FINEF:W6 ChgF:Dime,Eat,Dress /0-3	Categ
7	S7FINEF	S7FINEF:W7 ChgF:Dime,Eat,Dress /0-3	Categ
8	S8FINEF	S8FINEF:W8 ChgF:Dime,Eat,Dress /0-3	Categ
9	S9FINEF	S9FINEF:W9 ChgF:Dime,Eat,Dress /0-3	Categ
10	S10FINEF	S10FINEF:W10 ChgF:Dime,Eat,Dress /0-3	Categ
11	S11FINEF	S11FINEF:W11 ChgF:Dime,Eat,Dress /0-3	Categ
12	S12FINEF	S12FINEF:W12 ChgF:Dime,Eat,Dress /0-3	Categ



**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R3ADLC	17682	0.17	0.83	-5.0	5.0
R4ADLC	16264	0.12	0.82	-5.0	5.0
R5ADLC	19271	0.08	0.78	-5.0	5.0
R6ADLC	17916	0.09	0.80	-5.0	5.0
R7ADLC	16643	0.10	0.80	-5.0	5.0
R8ADLC	18247	0.11	0.79	-5.0	5.0
R9ADLC	17058	0.10	0.82	-5.0	5.0
R10ADLC	15582	0.15	0.85	-5.0	5.0
R11ADLC	20098	0.07	0.80	-5.0	5.0
R12ADLC	18531	0.11	0.80	-5.0	5.0
S3ADLC	11661	0.12	0.70	-5.0	5.0
S4ADLC	10464	0.07	0.68	-5.0	5.0
S5ADLC	12472	0.05	0.65	-5.0	5.0
S6ADLC	11418	0.05	0.67	-5.0	5.0
S7ADLC	10484	0.06	0.68	-5.0	5.0
S8ADLC	11532	0.08	0.66	-5.0	5.0
S9ADLC	10504	0.05	0.67	-5.0	5.0
S10ADLC	9414	0.10	0.73	-4.0	5.0
S11ADLC	12097	0.04	0.68	-5.0	5.0
S12ADLC	10851	0.08	0.70	-5.0	5.0
R3ADLF	17682	0.02	0.14	0.0	1.0
R4ADLF	16264	0.04	0.23	0.0	2.0
R5ADLF	19271	0.03	0.24	0.0	3.0
R6ADLF	17916	0.06	0.34	0.0	4.0
R7ADLF	16643	0.05	0.33	0.0	5.0
R8ADLF	18247	0.04	0.30	0.0	6.0
R9ADLF	17058	0.05	0.34	0.0	7.0
R10ADLF	15582	0.07	0.44	0.0	8.0
R11ADLF	20098	0.04	0.33	0.0	9.0
R12ADLF	18531	0.04	0.29	0.0	8.0
S3ADLF	11661	0.02	0.14	0.0	1.0
S4ADLF	10464	0.03	0.22	0.0	2.0
S5ADLF	12472	0.03	0.21	0.0	3.0
S6ADLF	11418	0.05	0.30	0.0	4.0
S7ADLF	10484	0.04	0.32	0.0	5.0
S8ADLF	11532	0.03	0.27	0.0	6.0
S9ADLF	10504	0.04	0.27	0.0	7.0
S10ADLF	9414	0.06	0.41	0.0	8.0
S11ADLF	12097	0.03	0.29	0.0	9.0
S12ADLF	10851	0.03	0.23	0.0	6.0
R3GROSSC	10744	0.07	0.74	-5.0	5.0
R4GROSSC	16115	0.14	0.90	-5.0	5.0
R5GROSSC	19240	0.12	0.90	-5.0	5.0
R6GROSSC	17902	0.13	0.93	-5.0	5.0
R7GROSSC	16639	0.12	0.92	-5.0	5.0
R8GROSSC	18247	0.14	0.91	-5.0	5.0
R9GROSSC	17058	0.12	0.92	-5.0	5.0
R10GROSSC	15583	0.18	0.94	-5.0	5.0
R11GROSSC	20099	0.10	0.91	-5.0	5.0
R12GROSSC	18534	0.12	0.91	-5.0	5.0
S3GROSSC	8124	0.06	0.69	-5.0	5.0

S4GROSSC	10412	0.09	0.77	-5.0	5.0
S5GROSSC	12461	0.09	0.78	-5.0	5.0
S6GROSSC	11412	0.09	0.81	-5.0	5.0
S7GROSSC	10483	0.08	0.81	-5.0	5.0
S8GROSSC	11532	0.10	0.80	-5.0	5.0
S9GROSSC	10505	0.07	0.79	-5.0	5.0
S10GROSSC	9415	0.12	0.82	-4.0	5.0
S11GROSSC	12099	0.08	0.79	-5.0	5.0
S12GROSSC	10852	0.10	0.82	-5.0	5.0
R3GROSSF	10744	0.03	0.18	0.0	1.0
R4GROSSF	16115	0.03	0.21	0.0	2.0
R5GROSSF	19240	0.03	0.22	0.0	3.0
R6GROSSF	17902	0.06	0.33	0.0	4.0
R7GROSSF	16639	0.05	0.33	0.0	5.0
R8GROSSF	18247	0.04	0.30	0.0	6.0
R9GROSSF	17058	0.05	0.33	0.0	7.0
R10GROSSF	15583	0.07	0.44	0.0	8.0
R11GROSSF	20099	0.04	0.33	0.0	9.0
R12GROSSF	18534	0.04	0.29	0.0	8.0
S3GROSSF	8124	0.03	0.17	0.0	1.0
S4GROSSF	10412	0.03	0.20	0.0	2.0
S5GROSSF	12461	0.03	0.20	0.0	3.0
S6GROSSF	11412	0.05	0.30	0.0	4.0
S7GROSSF	10483	0.04	0.32	0.0	5.0
S8GROSSF	11532	0.03	0.27	0.0	6.0
S9GROSSF	10505	0.04	0.27	0.0	7.0
S10GROSSF	9415	0.06	0.41	0.0	8.0
S11GROSSF	12099	0.03	0.29	0.0	9.0
S12GROSSF	10852	0.03	0.23	0.0	6.0
R3FINEC	17683	0.11	0.51	-3.0	3.0
R4FINEC	16265	0.06	0.53	-3.0	3.0
R5FINEC	19271	0.04	0.50	-3.0	3.0
R6FINEC	17915	0.04	0.51	-3.0	3.0
R7FINEC	16642	0.05	0.52	-3.0	3.0
R8FINEC	18248	0.06	0.51	-3.0	3.0
R9FINEC	17059	0.05	0.53	-3.0	3.0
R10FINEC	15582	0.08	0.55	-3.0	3.0
R11FINEC	20099	0.03	0.52	-3.0	3.0
R12FINEC	18530	0.06	0.52	-3.0	3.0
S3FINEC	11662	0.09	0.45	-3.0	3.0
S4FINEC	10465	0.04	0.46	-3.0	3.0
S5FINEC	12472	0.03	0.44	-3.0	3.0
S6FINEC	11418	0.02	0.44	-3.0	3.0
S7FINEC	10484	0.04	0.46	-3.0	3.0
S8FINEC	11532	0.04	0.45	-3.0	3.0
S9FINEC	10504	0.03	0.46	-3.0	3.0
S10FINEC	9414	0.06	0.47	-3.0	3.0
S11FINEC	12097	0.02	0.45	-3.0	3.0
S12FINEC	10851	0.05	0.46	-3.0	3.0
R3FINEF	17683	0.02	0.14	0.0	1.0
R4FINEF	16265	0.04	0.23	0.0	2.0
R5FINEF	19271	0.03	0.24	0.0	3.0
R6FINEF	17915	0.06	0.34	0.0	4.0
R7FINEF	16642	0.05	0.33	0.0	5.0

R8FINEF	18248	0.04	0.30	0.0	6.0
R9FINEF	17059	0.05	0.34	0.0	7.0
R10FINEF	15582	0.07	0.44	0.0	8.0
R11FINEF	20099	0.04	0.33	0.0	9.0
R12FINEF	18530	0.04	0.29	0.0	8.0
S3FINEF	11662	0.02	0.14	0.0	1.0
S4FINEF	10465	0.03	0.22	0.0	2.0
S5FINEF	12472	0.03	0.21	0.0	3.0
S6FINEF	11418	0.05	0.30	0.0	4.0
S7FINEF	10484	0.04	0.32	0.0	5.0
S8FINEF	11532	0.03	0.27	0.0	6.0
S9FINEF	10504	0.04	0.27	0.0	7.0
S10FINEF	9414	0.06	0.41	0.0	8.0
S11FINEF	12097	0.03	0.29	0.0	9.0
S12FINEF	10851	0.03	0.23	0.0	6.0

## Categorical Variable Codes

Value		R3ADLF	R4ADLF	R5ADLF	R6ADLF	R7ADLF
.M=Oth missing		309	5120	308	249	3486
0.Used IW-1		17320	15733	18828	17209	16195
1.Used IW-2		362	413	288	480	274
2.Used IW-3			118	113	119	85
3.Used IW-4				42	71	46
4.Used IW-5					37	27
5.Used IW-6						16
Value		R8ADLF	R9ADLF	R10ADLF	R11ADLF	R12ADLF
.M=Oth missing		222	159	6452	456	216
0.Used IW-1		17810	16481	15022	19660	18048
1.Used IW-2		255	403	291	257	356
2.Used IW-3		114	91	137	88	72
3.Used IW-4		39	52	60	56	25
4.Used IW-5		16	16	39	17	17
5.Used IW-6		9	4	17	7	4
6.Used IW-7		4	6	11	3	5
7.Used IW-8			5	2	4	3
8.Used IW-9				3	4	1
9.Used IW-10					2	

Value	S3ADLF	S4ADLF	S5ADLF	S6ADLF	S7ADLF
.M=Oth missing	254	3514	258	221	2488
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.Used IW-1	11420	10168	12230	11034	10258
1.Used IW-2	241	229	162	276	133
2.Used IW-3		67	62	55	42
3.Used IW-4			18	38	22
4.Used IW-5				15	16
5.Used IW-6					13

Value	S8ADLF	S9ADLF	S10ADLF	S11ADLF	S12ADLF
.M=Oth missing	203	142	4099	391	176
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	11315	10232	9113	11860	10620
1.Used IW-2	121	201	154	145	173
2.Used IW-3	64	41	79	44	36
3.Used IW-4	21	17	32	33	12
4.Used IW-5	7	8	23	11	9
5.Used IW-6		4	6	2	
6.Used IW-7	4		5		1
7.Used IW-8		1			
8.Used IW-9			2		
9.Used IW-10				2	

Value	R3GROSSF	R4GROSSF	R5GROSSF	R6GROSSF	R7GROSSF
.M=Oth missing	7247	5269	339	263	3490
0.Used IW-1	10382	15736	18830	17209	16194
1.Used IW-2	362	261	289	480	274
2.Used IW-3		118	79	119	85
3.Used IW-4			42	57	46
4.Used IW-5				37	24
5.Used IW-6					16

Value	R8GROSSF	R9GROSSF	R10GROSSF	R11GROSSF	R12GROSSF
.M=Oth missing	222	159	6451	455	213
0.Used IW-1	17812	16484	15024	19663	18049
1.Used IW-2	255	403	291	257	358
2.Used IW-3	114	91	137	88	72
3.Used IW-4	39	52	60	56	25
4.Used IW-5	16	16	39	17	17
5.Used IW-6	7	4	17	7	4
6.Used IW-7	4	3	11	3	5
7.Used IW-8		5	1	4	3
8.Used IW-9			3	2	1
9.Used IW-10				2	

Value	S3GROSSF	S4GROSSF	S5GROSSF	S6GROSSF	S7GROSSF
.M=Oth missing	3791	3566	269	227	2489
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.Used IW-1	7883	10169	12231	11034	10257
1.Used IW-2	241	176	163	276	133
2.Used IW-3		67	49	55	42
3.Used IW-4			18	32	22
4.Used IW-5				15	16
5.Used IW-6					13

Value	S8GROSSF	S9GROSSF	S10GROSSF	S11GROSSF	S12GROSSF
.M=Oth missing	203	141	4098	389	175
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	11315	10233	9114	11862	10620
1.Used IW-2	121	201	154	145	174
2.Used IW-3	64	41	79	44	36
3.Used IW-4	21	17	32	33	12
4.Used IW-5	7	8	23	11	9
5.Used IW-6		4	6	2	
6.Used IW-7	4		5		1
7.Used IW-8		1			
8.Used IW-9			2		
9.Used IW-10				2	

Value	R3FINEF	R4FINEF	R5FINEF	R6FINEF	R7FINEF
.M=Oth missing	308	5119	308	250	3487
0.Used IW-1	17321	15734	18828	17209	16194
1.Used IW-2	362	413	288	479	274
2.Used IW-3		118	113	119	85
3.Used IW-4			42	71	46
4.Used IW-5				37	27
5.Used IW-6					16

Value	R8FINEF	R9FINEF	R10FINEF	R11FINEF	R12FINEF
.M=Oth missing	221	158	6452	455	217
0.Used IW-1	17811	16482	15022	19661	18047
1.Used IW-2	255	403	291	257	356
2.Used IW-3	114	91	137	88	72
3.Used IW-4	39	52	60	56	25
4.Used IW-5	16	16	39	17	17
5.Used IW-6	9	4	17	7	4
6.Used IW-7	4	6	11	3	5
7.Used IW-8		5	2	4	3
8.Used IW-9			3	4	1
9.Used IW-10				2	

Value	S3FINEF	S4FINEF	S5FINEF	S6FINEF	S7FINEF
.M=Oth missing	253	3513	258	221	2488
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
0.Used IW-1	11421	10169	12230	11034	10258
1.Used IW-2	241	229	162	276	133
2.Used IW-3		67	62	55	42
3.Used IW-4			18	38	22
4.Used IW-5				15	16
5.Used IW-6					13

Value	S8FINEF	S9FINEF	S10FINEF	S11FINEF	S12FINEF
.M=Oth missing	203	142	4099	391	176
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	11315	10232	9113	11860	10620
1.Used IW-2	121	201	154	145	173
2.Used IW-3	64	41	79	44	36
3.Used IW-4	21	17	32	33	12
4.Used IW-5	7	8	23	11	9
5.Used IW-6		4	6	2	
6.Used IW-7	4		5		1
7.Used IW-8		1			
8.Used IW-9			2		
9.Used IW-10				2	

## How Constructed

The change in health measures were chosen for their consistency across waves. They include measures of overall health, functional limitation summaries, doctor-diagnosed health conditions, and assessment of mortality measures.

They are calculated as the current wave less the previous interview measures. If the Respondent missed an interview due to non-response, the change is between the current and the last interview that the Respondent did respond to. A flag for each change variable indicates how many interviews were missed prior to the current.

For further discussion of the Change in Health variables see the section titled "Health Change" earlier in this document.

RwADLC, RwGROSSC, and RwFINEC are the changes from the previous to the current interview, in functional limitation indices for Activities of Daily Living (ADLs), gross motor activities, and fine motor activities, respectively. RwADLF, RwGROSSF, and RwFINEF indicate how far back the previous interview is and whether the change measure is missing. SwADLC, SwGROSSC, SwFINEC, SwADLF, SwGROSSF, and SwFINEF are this information for the Respondent's spouse or partner.

Because of significant differences in question wording in Wave 1, we do not include functional limitation indices for this interview year. Thus the change variables begin in Wave 3 with the change from Wave 2. There are other cross wave differences in the way HRS presented the functional limitation questions in Waves 2H and 2A and the later waves, that may introduce measurement errors in these variables, which in turn may affect the change variables. In addition, the criteria used for skipping some questions changed between Wave 3 and later waves, which may also influence the consistency of measurement before Wave 4 for all ADLs except dressing. RwADLA, RwGROSSA, and RwFINEA all include at least one ADL measure besides dressing.

RwADLA summarizes difficulty with walking across a room, getting in and out of bed, dressing, bathing, and eating. RwGROSSA summarizes difficulty with walking one block, walking across a room, climbing a flight of stairs, getting in and out of bed, and bathing. RwFINEA summarizes difficulty with picking up a dime, eating, and dressing.

The derivation of these variables is:

$$\text{RwADLC} = \text{RwADLA} - \text{RpADLA}$$

$$\text{RwGROSSC} = \text{RwGROSSA} - \text{RpGROSSA}$$

$$\text{RwFINEC} = \text{RwFINEA} - \text{RpFINEA}$$

Where "w" means current wave and "p" means the previous interview. For example, if an individual responded to Waves 3 and 4,  $\text{R4ADLC} = \text{R4ADLA} - \text{R3ADLA}$ .

In Wave 2A, one of the components of  $\text{R2GROSSA}$  is not collected, and  $\text{R2GROSSA}$  is set to .Q. So for Wave 3A,  $\text{RwGROSSC}$  is set to .Q to indicate that this change measure is not available.

Not all individuals respond to every interview. Respondents may miss one or more interviews between those they complete.  $\text{RwADLF}$ ,  $\text{RwGROSSF}$ , and  $\text{RwFINEF}$  indicate if there are any missed interviews prior to the current, and if so, how many. In other words, they indicate how far back the previous interview is, from which the change is measured. Their codes are: 0) did not miss the previous interview; change = current - [current-1]; 1) missed the previous interview, but only one; change = current - [current-2]; 2) missed the two previous interviews; change = current - [current-3]; 3) missed the three previous interviews; change = current - [current-4]; 4) missed the four previous interviews; change = current - [current-5]; 5) missed the five previous interviews; change = current - [current-6]; 9) either the current or previous interview measure is missing, so change is missing.

Please see the description of  $\text{RwADLA}$  in "ADL Summary" and of  $\text{RwGROSSA}$  and  $\text{RwFINEA}$  in "Other Summary Indices" earlier in this section.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g.,  $\text{S3ADLC}$  is taken from the Wave 3 spouse's  $\text{R3ADLC}$  variable.

### **Cross Wave Differences in Original HRS Data**

Please see the documentation of the variables used to derive these change-in-health variables for a description of cross-wave differences in the raw HRS data under "Cross Wave Differences in Original HRS Data" for the "Activities of daily living (ADLs): Some difficulty" and "Other functional limitations: Some difficulty."

### Change in Health: Conditions

Wave	Variable	Label	Type
2	R2HIBPS	R2HIBPS:W2 R had hi BP since last IW	Categ
3	R3HIBPS	R3HIBPS:W3 R had hi BP since last IW	Categ
4	R4HIBPS	R4HIBPS:W4 R had hi BP since last IW	Categ
5	R5HIBPS	R5HIBPS:W5 R had hi BP since last IW	Categ
6	R6HIBPS	R6HIBPS:W6 R had hi BP since last IW	Categ
7	R7HIBPS	R7HIBPS:W7 R had hi BP since last IW	Categ
8	R8HIBPS	R8HIBPS:W8 R had hi BP since last IW	Categ
9	R9HIBPS	R9HIBPS:W9 R had hi BP since last IW	Categ
10	R10HIBPS	R10HIBPS:W10 R had hi BP since last IW	Categ
11	R11HIBPS	R11HIBPS:W11 R had hi BP since last IW	Categ
12	R12HIBPS	R12HIBPS:W12 R had hi BP since last IW	Categ
2	S2HIBPS	S2HIBPS:W2 S had hi BP since last IW	Categ
3	S3HIBPS	S3HIBPS:W3 S had hi BP since last IW	Categ
4	S4HIBPS	S4HIBPS:W4 S had hi BP since last IW	Categ
5	S5HIBPS	S5HIBPS:W5 S had hi BP since last IW	Categ
6	S6HIBPS	S6HIBPS:W6 S had hi BP since last IW	Categ
7	S7HIBPS	S7HIBPS:W7 S had hi BP since last IW	Categ
8	S8HIBPS	S8HIBPS:W8 S had hi BP since last IW	Categ
9	S9HIBPS	S9HIBPS:W9 S had hi BP since last IW	Categ
10	S10HIBPS	S10HIBPS:W10 S had hi BP since last IW	Categ
11	S11HIBPS	S11HIBPS:W11 S had hi BP since last IW	Categ
12	S12HIBPS	S12HIBPS:W12 S had hi BP since last IW	Categ
2	R2DIABS	R2DIABS:W2 R had diabetes since last IW	Categ
3	R3DIABS	R3DIABS:W3 R had diabetes since last IW	Categ
4	R4DIABS	R4DIABS:W4 R had diabetes since last IW	Categ
5	R5DIABS	R5DIABS:W5 R had diabetes since last IW	Categ
6	R6DIABS	R6DIABS:W6 R had diabetes since last IW	Categ
7	R7DIABS	R7DIABS:W7 R had diabetes since last IW	Categ
8	R8DIABS	R8DIABS:W8 R had diabetes since last IW	Categ
9	R9DIABS	R9DIABS:W9 R had diabetes since last IW	Categ
10	R10DIABS	R10DIABS:W10 R had diabetes since last IW	Categ
11	R11DIABS	R11DIABS:W11 R had diabetes since last IW	Categ
12	R12DIABS	R12DIABS:W12 R had diabetes since last IW	Categ
2	S2DIABS	S2DIABS:W2 S had diabetes since last IW	Categ
3	S3DIABS	S3DIABS:W3 S had diabetes since last IW	Categ
4	S4DIABS	S4DIABS:W4 S had diabetes since last IW	Categ
5	S5DIABS	S5DIABS:W5 S had diabetes since last IW	Categ
6	S6DIABS	S6DIABS:W6 S had diabetes since last IW	Categ
7	S7DIABS	S7DIABS:W7 S had diabetes since last IW	Categ
8	S8DIABS	S8DIABS:W8 S had diabetes since last IW	Categ
9	S9DIABS	S9DIABS:W9 S had diabetes since last IW	Categ
10	S10DIABS	S10DIABS:W10 S had diabetes since last IW	Categ
11	S11DIABS	S11DIABS:W11 S had diabetes since last IW	Categ
12	S12DIABS	S12DIABS:W12 S had diabetes since last IW	Categ
2	R2CANCERS	R2CANCERS:W2 R had cancer since last IW	Categ
3	R3CANCERS	R3CANCERS:W3 R had cancer since last IW	Categ
4	R4CANCERS	R4CANCERS:W4 R had cancer since last IW	Categ
5	R5CANCERS	R5CANCERS:W5 R had cancer since last IW	Categ
6	R6CANCERS	R6CANCERS:W6 R had cancer since last IW	Categ
7	R7CANCERS	R7CANCERS:W7 R had cancer since last IW	Categ
8	R8CANCERS	R8CANCERS:W8 R had cancer since last IW	Categ
9	R9CANCERS	R9CANCERS:W9 R had cancer since last IW	Categ
10	R10CANCERS	R10CANCERS:W10 R had cancer since last IW	Categ
11	R11CANCERS	R11CANCERS:W11 R had cancer since last IW	Categ
12	R12CANCERS	R12CANCERS:W12 R had cancer since last IW	Categ
2	S2CANCERS	S2CANCERS:W2 S had cancer since last IW	Categ
3	S3CANCERS	S3CANCERS:W3 S had cancer since last IW	Categ
4	S4CANCERS	S4CANCERS:W4 S had cancer since last IW	Categ
5	S5CANCERS	S5CANCERS:W5 S had cancer since last IW	Categ
6	S6CANCERS	S6CANCERS:W6 S had cancer since last IW	Categ
7	S7CANCERS	S7CANCERS:W7 S had cancer since last IW	Categ



8	S8CANCERS	S8CANCERS:W8 S had cancer since last IW	Categ
9	S9CANCERS	S9CANCERS:W9 S had cancer since last IW	Categ
10	S10CANCERS	S10CANCERS:W10 S had cancer since last IW	Categ
11	S11CANCERS	S11CANCERS:W11 S had cancer since last IW	Categ
12	S12CANCERS	S12CANCERS:W12 S had cancer since last IW	Categ
2	R2LUNGS	R2LUNGS:W2 R had lung dis since last IW	Categ
3	R3LUNGS	R3LUNGS:W3 R had lung dis since last IW	Categ
4	R4LUNGS	R4LUNGS:W4 R had lung dis since last IW	Categ
5	R5LUNGS	R5LUNGS:W5 R had lung dis since last IW	Categ
6	R6LUNGS	R6LUNGS:W6 R had lung dis since last IW	Categ
7	R7LUNGS	R7LUNGS:W7 R had lung dis since last IW	Categ
8	R8LUNGS	R8LUNGS:W8 R had lung dis since last IW	Categ
9	R9LUNGS	R9LUNGS:W9 R had lung dis since last IW	Categ
10	R10LUNGS	R10LUNGS:W10 R had lung dis since last IW	Categ
11	R11LUNGS	R11LUNGS:W11 R had lung dis since last IW	Categ
12	R12LUNGS	R12LUNGS:W12 R had lung dis since last IW	Categ
2	S2LUNGS	S2LUNGS:W2 S had lung dis since last IW	Categ
3	S3LUNGS	S3LUNGS:W3 S had lung dis since last IW	Categ
4	S4LUNGS	S4LUNGS:W4 S had lung dis since last IW	Categ
5	S5LUNGS	S5LUNGS:W5 S had lung dis since last IW	Categ
6	S6LUNGS	S6LUNGS:W6 S had lung dis since last IW	Categ
7	S7LUNGS	S7LUNGS:W7 S had lung dis since last IW	Categ
8	S8LUNGS	S8LUNGS:W8 S had lung dis since last IW	Categ
9	S9LUNGS	S9LUNGS:W9 S had lung dis since last IW	Categ
10	S10LUNGS	S10LUNGS:W10 S had lung dis since last IW	Categ
11	S11LUNGS	S11LUNGS:W11 S had lung dis since last IW	Categ
12	S12LUNGS	S12LUNGS:W12 S had lung dis since last IW	Categ
2	R2HEARTS	R2HEARTS:W2 R had heart prob snce lastIW	Categ
3	R3HEARTS	R3HEARTS:W3 R had heart prob snce lastIW	Categ
4	R4HEARTS	R4HEARTS:W4 R had heart prob snce lastIW	Categ
5	R5HEARTS	R5HEARTS:W5 R had heart prob snce lastIW	Categ
6	R6HEARTS	R6HEARTS:W6 R had heart prob snce lastIW	Categ
7	R7HEARTS	R7HEARTS:W7 R had heart prob snce lastIW	Categ
8	R8HEARTS	R8HEARTS:W8 R had heart prob snce lastIW	Categ
9	R9HEARTS	R9HEARTS:W9 R had heart prob snce lastIW	Categ
10	R10HEARTS	R10HEARTS:W10 R had heart prob snce lastIW	Categ
11	R11HEARTS	R11HEARTS:W11 R had heart prob snce lastIW	Categ
12	R12HEARTS	R12HEARTS:W12 R had heart prob snce lastIW	Categ
2	S2HEARTS	S2HEARTS:W2 S had heart prob snce lastIW	Categ
3	S3HEARTS	S3HEARTS:W3 S had heart prob snce lastIW	Categ
4	S4HEARTS	S4HEARTS:W4 S had heart prob snce lastIW	Categ
5	S5HEARTS	S5HEARTS:W5 S had heart prob snce lastIW	Categ
6	S6HEARTS	S6HEARTS:W6 S had heart prob snce lastIW	Categ
7	S7HEARTS	S7HEARTS:W7 S had heart prob snce lastIW	Categ
8	S8HEARTS	S8HEARTS:W8 S had heart prob snce lastIW	Categ
9	S9HEARTS	S9HEARTS:W9 S had heart prob snce lastIW	Categ
10	S10HEARTS	S10HEARTS:W10 S had heart prob snce lastIW	Categ
11	S11HEARTS	S11HEARTS:W11 S had heart prob snce lastIW	Categ
12	S12HEARTS	S12HEARTS:W12 S had heart prob snce lastIW	Categ
2	R2STROKS	R2STROKS:W2 R had stroke since last IW	Categ
3	R3STROKS	R3STROKS:W3 R had stroke since last IW	Categ
4	R4STROKS	R4STROKS:W4 R had stroke since last IW	Categ
5	R5STROKS	R5STROKS:W5 R had stroke since last IW	Categ
6	R6STROKS	R6STROKS:W6 R had stroke since last IW	Categ
7	R7STROKS	R7STROKS:W7 R had stroke since last IW	Categ
8	R8STROKS	R8STROKS:W8 R had stroke since last IW	Categ
9	R9STROKS	R9STROKS:W9 R had stroke since last IW	Categ
10	R10STROKS	R10STROKS:W10 R had stroke since last IW	Categ
11	R11STROKS	R11STROKS:W11 R had stroke since last IW	Categ
12	R12STROKS	R12STROKS:W12 R had stroke since last IW	Categ
2	S2STROKS	S2STROKS:W2 S had stroke since last IW	Categ
3	S3STROKS	S3STROKS:W3 S had stroke since last IW	Categ
4	S4STROKS	S4STROKS:W4 S had stroke since last IW	Categ
5	S5STROKS	S5STROKS:W5 S had stroke since last IW	Categ
6	S6STROKS	S6STROKS:W6 S had stroke since last IW	Categ
7	S7STROKS	S7STROKS:W7 S had stroke since last IW	Categ

8	S8STROKS	S8STROKS:W8 S had stroke since last IW	Categ
9	S9STROKS	S9STROKS:W9 S had stroke since last IW	Categ
10	S10STROKS	S10STROKS:W10 S had stroke since last IW	Categ
11	S11STROKS	S11STROKS:W11 S had stroke since last IW	Categ
12	S12STROKS	S12STROKS:W12 S had stroke since last IW	Categ
2	R2PSYCHS	R2PSYCHS:W2 R had psych prob snce lastIW	Categ
3	R3PSYCHS	R3PSYCHS:W3 R had psych prob snce lastIW	Categ
4	R4PSYCHS	R4PSYCHS:W4 R had psych prob snce lastIW	Categ
5	R5PSYCHS	R5PSYCHS:W5 R had psych prob snce lastIW	Categ
6	R6PSYCHS	R6PSYCHS:W6 R had psych prob snce lastIW	Categ
7	R7PSYCHS	R7PSYCHS:W7 R had psych prob snce lastIW	Categ
8	R8PSYCHS	R8PSYCHS:W8 R had psych prob snce lastIW	Categ
9	R9PSYCHS	R9PSYCHS:W9 R had psych prob snce lastIW	Categ
10	R10PSYCHS	R10PSYCHS:W10 R had psych prob snce lastIW	Categ
11	R11PSYCHS	R11PSYCHS:W11 R had psych prob snce lastIW	Categ
12	R12PSYCHS	R12PSYCHS:W12 R had psych prob snce lastIW	Categ
2	S2PSYCHS	S2PSYCHS:W2 S had psych prob snce lastIW	Categ
3	S3PSYCHS	S3PSYCHS:W3 S had psych prob snce lastIW	Categ
4	S4PSYCHS	S4PSYCHS:W4 S had psych prob snce lastIW	Categ
5	S5PSYCHS	S5PSYCHS:W5 S had psych prob snce lastIW	Categ
6	S6PSYCHS	S6PSYCHS:W6 S had psych prob snce lastIW	Categ
7	S7PSYCHS	S7PSYCHS:W7 S had psych prob snce lastIW	Categ
8	S8PSYCHS	S8PSYCHS:W8 S had psych prob snce lastIW	Categ
9	S9PSYCHS	S9PSYCHS:W9 S had psych prob snce lastIW	Categ
10	S10PSYCHS	S10PSYCHS:W10 S had psych prob snce lastIW	Categ
11	S11PSYCHS	S11PSYCHS:W11 S had psych prob snce lastIW	Categ
12	S12PSYCHS	S12PSYCHS:W12 S had psych prob snce lastIW	Categ
2	R2ARTHRS	R2ARTHRS:W2 R had arthritis snce last IW	Categ
3	R3ARTHRS	R3ARTHRS:W3 R had arthritis snce last IW	Categ
4	R4ARTHRS	R4ARTHRS:W4 R had arthritis snce last IW	Categ
5	R5ARTHRS	R5ARTHRS:W5 R had arthritis snce last IW	Categ
6	R6ARTHRS	R6ARTHRS:W6 R had arthritis snce last IW	Categ
7	R7ARTHRS	R7ARTHRS:W7 R had arthritis snce last IW	Categ
8	R8ARTHRS	R8ARTHRS:W8 R had arthritis snce last IW	Categ
9	R9ARTHRS	R9ARTHRS:W9 R had arthritis snce last IW	Categ
10	R10ARTHRS	R10ARTHRS:W10 R had arthritis snce last IW	Categ
11	R11ARTHRS	R11ARTHRS:W11 R had arthritis snce last IW	Categ
12	R12ARTHRS	R12ARTHRS:W12 R had arthritis snce last IW	Categ
2	S2ARTHRS	S2ARTHRS:W2 S had arthritis snce last IW	Categ
3	S3ARTHRS	S3ARTHRS:W3 S had arthritis snce last IW	Categ
4	S4ARTHRS	S4ARTHRS:W4 S had arthritis snce last IW	Categ
5	S5ARTHRS	S5ARTHRS:W5 S had arthritis snce last IW	Categ
6	S6ARTHRS	S6ARTHRS:W6 S had arthritis snce last IW	Categ
7	S7ARTHRS	S7ARTHRS:W7 S had arthritis snce last IW	Categ
8	S8ARTHRS	S8ARTHRS:W8 S had arthritis snce last IW	Categ
9	S9ARTHRS	S9ARTHRS:W9 S had arthritis snce last IW	Categ
10	S10ARTHRS	S10ARTHRS:W10 S had arthritis snce last IW	Categ
11	S11ARTHRS	S11ARTHRS:W11 S had arthritis snce last IW	Categ
12	S12ARTHRS	S12ARTHRS:W12 S had arthritis snce last IW	Categ
2	R2CONDS	R2CONDS:W2 Sum of conditns since lastIW	Cont
3	R3CONDS	R3CONDS:W3 Sum of conditns since lastIW	Cont
4	R4CONDS	R4CONDS:W4 Sum of conditns since lastIW	Cont
5	R5CONDS	R5CONDS:W5 Sum of conditns since lastIW	Cont
6	R6CONDS	R6CONDS:W6 Sum of conditns since lastIW	Cont
7	R7CONDS	R7CONDS:W7 Sum of conditns since lastIW	Cont
8	R8CONDS	R8CONDS:W8 Sum of conditns since lastIW	Cont
9	R9CONDS	R9CONDS:W9 Sum of conditns since lastIW	Cont
10	R10CONDS	R10CONDS:W10 Sum of conditns since lastIW	Cont
11	R11CONDS	R11CONDS:W11 Sum of conditns since lastIW	Cont
12	R12CONDS	R12CONDS:W12 Sum of conditns since lastIW	Cont
2	S2CONDS	S2CONDS:W2 Sum of conditns since lastIW	Cont
3	S3CONDS	S3CONDS:W3 Sum of conditns since lastIW	Cont
4	S4CONDS	S4CONDS:W4 Sum of conditns since lastIW	Cont
5	S5CONDS	S5CONDS:W5 Sum of conditns since lastIW	Cont
6	S6CONDS	S6CONDS:W6 Sum of conditns since lastIW	Cont
7	S7CONDS	S7CONDS:W7 Sum of conditns since lastIW	Cont

8	S8CONDS	S8CONDS:W8 Sum of conditns since lastIW	Cont
9	S9CONDS	S9CONDS:W9 Sum of conditns since lastIW	Cont
10	S10CONDS	S10CONDS:W10 Sum of conditns since lastIW	Cont
11	S11CONDS	S11CONDS:W11 Sum of conditns since lastIW	Cont
12	S12CONDS	S12CONDS:W12 Sum of conditns since lastIW	Cont
2	R2CONDSM	R2CONDSM:W2 # missings in sum cond since	Cont
3	R3CONDSM	R3CONDSM:W3 # missings in sum cond since	Cont
4	R4CONDSM	R4CONDSM:W4 # missings in sum cond since	Cont
5	R5CONDSM	R5CONDSM:W5 # missings in sum cond since	Cont
6	R6CONDSM	R6CONDSM:W6 # missings in sum cond since	Cont
7	R7CONDSM	R7CONDSM:W7 # missings in sum cond since	Cont
8	R8CONDSM	R8CONDSM:W8 # missings in sum cond since	Cont
9	R9CONDSM	R9CONDSM:W9 # missings in sum cond since	Cont
10	R10CONDSM	R10CONDSM:W10 # missings in sum cond since	Cont
11	R11CONDSM	R11CONDSM:W11 # missings in sum cond since	Cont
12	R12CONDSM	R12CONDSM:W12 # missings in sum cond since	Cont
2	S2CONDSM	S2CONDSM:W2 # missings in sum cond since	Cont
3	S3CONDSM	S3CONDSM:W3 # missings in sum cond since	Cont
4	S4CONDSM	S4CONDSM:W4 # missings in sum cond since	Cont
5	S5CONDSM	S5CONDSM:W5 # missings in sum cond since	Cont
6	S6CONDSM	S6CONDSM:W6 # missings in sum cond since	Cont
7	S7CONDSM	S7CONDSM:W7 # missings in sum cond since	Cont
8	S8CONDSM	S8CONDSM:W8 # missings in sum cond since	Cont
9	S9CONDSM	S9CONDSM:W9 # missings in sum cond since	Cont
10	S10CONDSM	S10CONDSM:W10 # missings in sum cond since	Cont
11	S11CONDSM	S11CONDSM:W11 # missings in sum cond since	Cont
12	S12CONDSM	S12CONDSM:W12 # missings in sum cond since	Cont
2	R2CONDSF	R2CONDSF:W2 # chg from dispute/sum since	Cont
3	R3CONDSF	R3CONDSF:W3 # chg from dispute/sum since	Cont
4	R4CONDSF	R4CONDSF:W4 # chg from dispute/sum since	Cont
5	R5CONDSF	R5CONDSF:W5 # chg from dispute/sum since	Cont
6	R6CONDSF	R6CONDSF:W6 # chg from dispute/sum since	Cont
7	R7CONDSF	R7CONDSF:W7 # chg from dispute/sum since	Cont
8	R8CONDSF	R8CONDSF:W8 # chg from dispute/sum since	Cont
9	R9CONDSF	R9CONDSF:W9 # chg from dispute/sum since	Cont
10	R10CONDSF	R10CONDSF:W10 # chg from dispute/sum since	Cont
11	R11CONDSF	R11CONDSF:W11 # chg from dispute/sum since	Cont
12	R12CONDSF	R12CONDSF:W12 # chg from dispute/sum since	Cont
2	S2CONDSF	S2CONDSF:W2 # chg from dispute/sum since	Cont
3	S3CONDSF	S3CONDSF:W3 # chg from dispute/sum since	Cont
4	S4CONDSF	S4CONDSF:W4 # chg from dispute/sum since	Cont
5	S5CONDSF	S5CONDSF:W5 # chg from dispute/sum since	Cont
6	S6CONDSF	S6CONDSF:W6 # chg from dispute/sum since	Cont
7	S7CONDSF	S7CONDSF:W7 # chg from dispute/sum since	Cont
8	S8CONDSF	S8CONDSF:W8 # chg from dispute/sum since	Cont
9	S9CONDSF	S9CONDSF:W9 # chg from dispute/sum since	Cont
10	S10CONDSF	S10CONDSF:W10 # chg from dispute/sum since	Cont
11	S11CONDSF	S11CONDSF:W11 # chg from dispute/sum since	Cont
12	S12CONDSF	S12CONDSF:W12 # chg from dispute/sum since	Cont
2	R2CONDSP	R2CONDSP:W2 Flag Prv IVW not Wv-1/since	Categ
3	R3CONDSP	R3CONDSP:W3 Flag Prv IVW not Wv-1/since	Categ
4	R4CONDSP	R4CONDSP:W4 Flag Prv IVW not Wv-1/since	Categ
5	R5CONDSP	R5CONDSP:W5 Flag Prv IVW not Wv-1/since	Categ
6	R6CONDSP	R6CONDSP:W6 Flag Prv IVW not Wv-1/since	Categ
7	R7CONDSP	R7CONDSP:W7 Flag Prv IVW not Wv-1/since	Categ
8	R8CONDSP	R8CONDSP:W8 Flag Prv IVW not Wv-1/since	Categ
9	R9CONDSP	R9CONDSP:W9 Flag Prv IVW not Wv-1/since	Categ
10	R10CONDSP	R10CONDSP:W10 Flag Prv IVW not Wv-1/since	Categ
11	R11CONDSP	R11CONDSP:W11 Flag Prv IVW not Wv-1/since	Categ
12	R12CONDSP	R12CONDSP:W12 Flag Prv IVW not Wv-1/since	Categ
2	S2CONDSP	S2CONDSP:W2 Flag Prv IVW not Wv-1/since	Categ
3	S3CONDSP	S3CONDSP:W3 Flag Prv IVW not Wv-1/since	Categ
4	S4CONDSP	S4CONDSP:W4 Flag Prv IVW not Wv-1/since	Categ
5	S5CONDSP	S5CONDSP:W5 Flag Prv IVW not Wv-1/since	Categ
6	S6CONDSP	S6CONDSP:W6 Flag Prv IVW not Wv-1/since	Categ
7	S7CONDSP	S7CONDSP:W7 Flag Prv IVW not Wv-1/since	Categ

8	S8CONDSP	S8CONDSP:W8 Flag Prv IVW not Wv-1/since	Categ
9	S9CONDSP	S9CONDSP:W9 Flag Prv IVW not Wv-1/since	Categ
10	S10CONDSP	S10CONDSP:W10 Flag Prv IVW not Wv-1/since	Categ
11	S11CONDSP	S11CONDSP:W11 Flag Prv IVW not Wv-1/since	Categ
12	S12CONDSP	S12CONDSP:W12 Flag Prv IVW not Wv-1/since	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2HIBPS	11419	0.03	0.18	0.0	1.0
R3HIBPS	17707	0.04	0.19	0.0	1.0
R4HIBPS	16273	0.04	0.21	0.0	1.0
R5HIBPS	19293	0.05	0.21	0.0	1.0
R6HIBPS	17910	0.06	0.23	0.0	1.0
R7HIBPS	16626	0.05	0.22	0.0	1.0
R8HIBPS	18223	0.05	0.22	0.0	1.0
R9HIBPS	17036	0.05	0.22	0.0	1.0
R10HIBPS	15549	0.05	0.22	0.0	1.0
R11HIBPS	20170	0.04	0.20	0.0	1.0
R12HIBPS	18511	0.04	0.19	0.0	1.0
S2HIBPS	8737	0.03	0.18	0.0	1.0
S3HIBPS	11669	0.03	0.18	0.0	1.0
S4HIBPS	10466	0.04	0.21	0.0	1.0
S5HIBPS	12475	0.05	0.21	0.0	1.0
S6HIBPS	11417	0.05	0.23	0.0	1.0
S7HIBPS	10474	0.05	0.22	0.0	1.0
S8HIBPS	11524	0.05	0.22	0.0	1.0
S9HIBPS	10492	0.05	0.22	0.0	1.0
S10HIBPS	9398	0.05	0.22	0.0	1.0
S11HIBPS	12146	0.04	0.20	0.0	1.0
S12HIBPS	10828	0.04	0.19	0.0	1.0
R2DIABS	11418	0.02	0.13	0.0	1.0
R3DIABS	17699	0.02	0.14	0.0	1.0
R4DIABS	16269	0.02	0.14	0.0	1.0
R5DIABS	19291	0.02	0.15	0.0	1.0
R6DIABS	17914	0.03	0.17	0.0	1.0
R7DIABS	16625	0.03	0.16	0.0	1.0
R8DIABS	18223	0.03	0.17	0.0	1.0
R9DIABS	17035	0.03	0.16	0.0	1.0
R10DIABS	15550	0.03	0.18	0.0	1.0
R11DIABS	20179	0.03	0.16	0.0	1.0
R12DIABS	18524	0.03	0.17	0.0	1.0
S2DIABS	8738	0.02	0.12	0.0	1.0
S3DIABS	11666	0.02	0.13	0.0	1.0
S4DIABS	10467	0.02	0.13	0.0	1.0
S5DIABS	12474	0.02	0.15	0.0	1.0
S6DIABS	11417	0.03	0.17	0.0	1.0
S7DIABS	10471	0.03	0.16	0.0	1.0
S8DIABS	11519	0.03	0.16	0.0	1.0
S9DIABS	10490	0.03	0.16	0.0	1.0
S10DIABS	9403	0.04	0.18	0.0	1.0
S11DIABS	12155	0.03	0.16	0.0	1.0
S12DIABS	10846	0.03	0.17	0.0	1.0

R2CANCERS	11415	0.01	0.11	0.0	1.0
R3CANCERS	17702	0.02	0.14	0.0	1.0
R4CANCERS	16265	0.02	0.15	0.0	1.0
R5CANCERS	19279	0.02	0.14	0.0	1.0
R6CANCERS	17904	0.03	0.16	0.0	1.0
R7CANCERS	16617	0.02	0.15	0.0	1.0
R8CANCERS	18212	0.02	0.15	0.0	1.0
R9CANCERS	17026	0.02	0.15	0.0	1.0
R10CANCERS	15540	0.03	0.16	0.0	1.0
R11CANCERS	20165	0.02	0.14	0.0	1.0
R12CANCERS	18512	0.02	0.14	0.0	1.0
S2CANCERS	8735	0.01	0.11	0.0	1.0
S3CANCERS	11663	0.02	0.14	0.0	1.0
S4CANCERS	10460	0.02	0.15	0.0	1.0
S5CANCERS	12468	0.02	0.14	0.0	1.0
S6CANCERS	11411	0.03	0.16	0.0	1.0
S7CANCERS	10467	0.02	0.15	0.0	1.0
S8CANCERS	11512	0.02	0.15	0.0	1.0
S9CANCERS	10484	0.02	0.15	0.0	1.0
S10CANCERS	9391	0.03	0.17	0.0	1.0
S11CANCERS	12146	0.02	0.14	0.0	1.0
S12CANCERS	10834	0.02	0.15	0.0	1.0
R2LUNGS	11420	0.01	0.11	0.0	1.0
R3LUNGS	17712	0.01	0.11	0.0	1.0
R4LUNGS	16282	0.02	0.13	0.0	1.0
R5LUNGS	19299	0.01	0.12	0.0	1.0
R6LUNGS	17917	0.02	0.13	0.0	1.0
R7LUNGS	16631	0.02	0.13	0.0	1.0
R8LUNGS	18225	0.02	0.13	0.0	1.0
R9LUNGS	17040	0.02	0.13	0.0	1.0
R10LUNGS	15562	0.02	0.14	0.0	1.0
R11LUNGS	20192	0.02	0.13	0.0	1.0
R12LUNGS	18540	0.02	0.13	0.0	1.0
S2LUNGS	8737	0.01	0.11	0.0	1.0
S3LUNGS	11669	0.01	0.10	0.0	1.0
S4LUNGS	10466	0.01	0.11	0.0	1.0
S5LUNGS	12475	0.01	0.12	0.0	1.0
S6LUNGS	11416	0.01	0.12	0.0	1.0
S7LUNGS	10473	0.02	0.13	0.0	1.0
S8LUNGS	11520	0.01	0.12	0.0	1.0
S9LUNGS	10492	0.02	0.12	0.0	1.0
S10LUNGS	9407	0.02	0.13	0.0	1.0
S11LUNGS	12161	0.01	0.12	0.0	1.0
S12LUNGS	10850	0.02	0.12	0.0	1.0
R2HEARTS	11422	0.02	0.15	0.0	1.0
R3HEARTS	17713	0.03	0.18	0.0	1.0
R4HEARTS	16279	0.03	0.18	0.0	1.0
R5HEARTS	19300	0.03	0.18	0.0	1.0
R6HEARTS	17918	0.04	0.19	0.0	1.0
R7HEARTS	16626	0.04	0.19	0.0	1.0
R8HEARTS	18223	0.03	0.18	0.0	1.0
R9HEARTS	17037	0.03	0.18	0.0	1.0
R10HEARTS	15563	0.04	0.21	0.0	1.0
R11HEARTS	20185	0.03	0.18	0.0	1.0

R12HEARTS	18523	0.04	0.18	0.0	1.0
S2HEARTS	8740	0.02	0.15	0.0	1.0
S3HEARTS	11673	0.03	0.17	0.0	1.0
S4HEARTS	10468	0.03	0.18	0.0	1.0
S5HEARTS	12476	0.03	0.17	0.0	1.0
S6HEARTS	11417	0.03	0.18	0.0	1.0
S7HEARTS	10471	0.03	0.18	0.0	1.0
S8HEARTS	11521	0.03	0.18	0.0	1.0
S9HEARTS	10491	0.03	0.18	0.0	1.0
S10HEARTS	9402	0.04	0.20	0.0	1.0
S11HEARTS	12155	0.03	0.17	0.0	1.0
S12HEARTS	10839	0.03	0.18	0.0	1.0
R2STROKS	11422	0.01	0.08	0.0	1.0
R3STROKS	17712	0.02	0.14	0.0	1.0
R4STROKS	16281	0.02	0.14	0.0	1.0
R5STROKS	19304	0.02	0.14	0.0	1.0
R6STROKS	17921	0.02	0.14	0.0	1.0
R7STROKS	16640	0.02	0.14	0.0	1.0
R8STROKS	18237	0.02	0.13	0.0	1.0
R9STROKS	17050	0.02	0.13	0.0	1.0
R10STROKS	15573	0.02	0.15	0.0	1.0
R11STROKS	20196	0.02	0.13	0.0	1.0
R12STROKS	18535	0.02	0.13	0.0	1.0
S2STROKS	8740	0.01	0.07	0.0	1.0
S3STROKS	11670	0.02	0.12	0.0	1.0
S4STROKS	10467	0.02	0.12	0.0	1.0
S5STROKS	12478	0.02	0.12	0.0	1.0
S6STROKS	11421	0.02	0.13	0.0	1.0
S7STROKS	10478	0.01	0.12	0.0	1.0
S8STROKS	11524	0.01	0.12	0.0	1.0
S9STROKS	10496	0.01	0.12	0.0	1.0
S10STROKS	9406	0.02	0.14	0.0	1.0
S11STROKS	12160	0.01	0.12	0.0	1.0
S12STROKS	10846	0.01	0.12	0.0	1.0
R2PSYCHS	11420	0.02	0.14	0.0	1.0
R3PSYCHS	17711	0.02	0.15	0.0	1.0
R4PSYCHS	16281	0.02	0.14	0.0	1.0
R5PSYCHS	19303	0.02	0.14	0.0	1.0
R6PSYCHS	17923	0.02	0.15	0.0	1.0
R7PSYCHS	16633	0.02	0.15	0.0	1.0
R8PSYCHS	18226	0.03	0.16	0.0	1.0
R9PSYCHS	17041	0.02	0.14	0.0	1.0
R10PSYCHS	15555	0.02	0.15	0.0	1.0
R11PSYCHS	20176	0.02	0.15	0.0	1.0
R12PSYCHS	18520	0.02	0.14	0.0	1.0
S2PSYCHS	8738	0.02	0.13	0.0	1.0
S3PSYCHS	11671	0.02	0.13	0.0	1.0
S4PSYCHS	10466	0.02	0.12	0.0	1.0
S5PSYCHS	12477	0.02	0.13	0.0	1.0
S6PSYCHS	11422	0.02	0.14	0.0	1.0
S7PSYCHS	10476	0.02	0.13	0.0	1.0
S8PSYCHS	11514	0.02	0.15	0.0	1.0
S9PSYCHS	10487	0.02	0.13	0.0	1.0
S10PSYCHS	9398	0.02	0.14	0.0	1.0

S11PSYCHS	12155	0.02	0.14	0.0	1.0
S12PSYCHS	10840	0.02	0.13	0.0	1.0
R2ARTHR	11419	0.06	0.23	0.0	1.0
R3ARTHR	17710	0.14	0.34	0.0	1.0
R4ARTHR	16281	0.07	0.25	0.0	1.0
R5ARTHR	19296	0.05	0.22	0.0	1.0
R6ARTHR	17907	0.05	0.23	0.0	1.0
R7ARTHR	16619	0.05	0.21	0.0	1.0
R8ARTHR	18233	0.04	0.20	0.0	1.0
R9ARTHR	17050	0.04	0.20	0.0	1.0
R10ARTHR	15563	0.04	0.20	0.0	1.0
R11ARTHR	20186	0.04	0.20	0.0	1.0
R12ARTHR	18533	0.04	0.20	0.0	1.0
S2ARTHR	8737	0.06	0.23	0.0	1.0
S3ARTHR	11669	0.11	0.32	0.0	1.0
S4ARTHR	10467	0.06	0.24	0.0	1.0
S5ARTHR	12471	0.05	0.22	0.0	1.0
S6ARTHR	11408	0.06	0.23	0.0	1.0
S7ARTHR	10463	0.05	0.21	0.0	1.0
S8ARTHR	11520	0.04	0.21	0.0	1.0
S9ARTHR	10494	0.05	0.21	0.0	1.0
S10ARTHR	9397	0.05	0.21	0.0	1.0
S11ARTHR	12155	0.04	0.20	0.0	1.0
S12ARTHR	10843	0.04	0.20	0.0	1.0
R2CONDS	11423	0.18	0.45	0.0	4.0
R3CONDS	17721	0.30	0.56	0.0	5.0
R4CONDS	16292	0.25	0.52	0.0	4.0
R5CONDS	19314	0.23	0.50	0.0	5.0
R6CONDS	17937	0.26	0.53	0.0	5.0
R7CONDS	16654	0.24	0.51	0.0	5.0
R8CONDS	18259	0.24	0.52	0.0	5.0
R9CONDS	17071	0.23	0.51	0.0	5.0
R10CONDS	15592	0.26	0.53	0.0	4.0
R11CONDS	20221	0.22	0.50	0.0	5.0
R12CONDS	18568	0.22	0.49	0.0	5.0
S2CONDS	8740	0.17	0.44	0.0	4.0
S3CONDS	11675	0.26	0.52	0.0	5.0
S4CONDS	10474	0.23	0.49	0.0	4.0
S5CONDS	12483	0.22	0.49	0.0	5.0
S6CONDS	11428	0.25	0.51	0.0	4.0
S7CONDS	10486	0.23	0.50	0.0	5.0
S8CONDS	11535	0.23	0.51	0.0	5.0
S9CONDS	10504	0.23	0.49	0.0	4.0
S10CONDS	9414	0.25	0.52	0.0	4.0
S11CONDS	12173	0.21	0.49	0.0	5.0
S12CONDS	10859	0.21	0.47	0.0	4.0
R2CONDSM	11423	0.00	0.06	0.0	2.0
R3CONDSM	17721	0.01	0.12	0.0	7.0
R4CONDSM	16293	0.01	0.15	0.0	8.0
R5CONDSM	19314	0.01	0.13	0.0	7.0
R6CONDSM	17938	0.01	0.17	0.0	8.0
R7CONDSM	16657	0.01	0.20	0.0	8.0
R8CONDSM	18261	0.02	0.19	0.0	8.0
R9CONDSM	17074	0.02	0.20	0.0	8.0

R10CONDSM	15595	0.02	0.21	0.0	8.0
R11CONDSM	20223	0.02	0.19	0.0	8.0
R12CONDSM	18569	0.02	0.20	0.0	8.0
S2CONDSM	8740	0.00	0.05	0.0	2.0
S3CONDSM	11675	0.00	0.11	0.0	7.0
S4CONDSM	10474	0.01	0.14	0.0	7.0
S5CONDSM	12483	0.01	0.11	0.0	7.0
S6CONDSM	11429	0.01	0.17	0.0	8.0
S7CONDSM	10487	0.01	0.17	0.0	8.0
S8CONDSM	11536	0.01	0.16	0.0	8.0
S9CONDSM	10507	0.01	0.18	0.0	8.0
S10CONDSM	9417	0.01	0.19	0.0	8.0
S11CONDSM	12175	0.01	0.17	0.0	8.0
S12CONDSM	10860	0.01	0.16	0.0	8.0
R2CONDSF	19642	0.04	0.23	0.0	4.0
R3CONDSF	17991	0.19	0.46	0.0	5.0
R4CONDSF	21384	0.11	0.36	0.0	4.0
R5CONDSF	19579	0.12	0.36	0.0	4.0
R6CONDSF	18165	0.10	0.33	0.0	3.0
R7CONDSF	20129	0.10	0.33	0.0	3.0
R8CONDSF	18469	0.10	0.33	0.0	4.0
R9CONDSF	17217	0.10	0.33	0.0	3.0
R10CONDSF	22034	0.06	0.27	0.0	6.0
R11CONDSF	20554	0.08	0.30	0.0	5.0
R12CONDSF	18747	0.06	0.25	0.0	3.0
S2CONDSF	13088	0.05	0.23	0.0	3.0
S3CONDSF	11915	0.18	0.45	0.0	5.0
S4CONDSF	13978	0.10	0.34	0.0	3.0
S5CONDSF	12730	0.11	0.35	0.0	4.0
S6CONDSF	11639	0.10	0.32	0.0	3.0
S7CONDSF	12972	0.09	0.31	0.0	3.0
S8CONDSF	11735	0.09	0.31	0.0	3.0
S9CONDSF	10646	0.09	0.31	0.0	3.0
S10CONDSF	13513	0.06	0.25	0.0	4.0
S11CONDSF	12488	0.07	0.27	0.0	4.0
S12CONDSF	11027	0.05	0.23	0.0	3.0
R2CONDSP	11423	0.00	0.00	0.0	0.0
R3CONDSP	17721	0.02	0.14	0.0	1.0
R4CONDSP	16293	0.04	0.23	0.0	2.0
R5CONDSP	19314	0.03	0.24	0.0	3.0
R6CONDSP	17938	0.06	0.34	0.0	4.0
R7CONDSP	16657	0.05	0.33	0.0	5.0
R8CONDSP	18261	0.04	0.30	0.0	6.0
R9CONDSP	17074	0.05	0.35	0.0	7.0
R10CONDSP	15595	0.07	0.44	0.0	8.0
R11CONDSP	20223	0.04	0.33	0.0	9.0
R12CONDSP	18569	0.04	0.30	0.0	8.0
S2CONDSP	8740	0.00	0.00	0.0	0.0
S3CONDSP	11675	0.02	0.14	0.0	1.0
S4CONDSP	10474	0.03	0.22	0.0	2.0
S5CONDSP	12483	0.03	0.21	0.0	3.0
S6CONDSP	11429	0.05	0.30	0.0	4.0
S7CONDSP	10487	0.04	0.32	0.0	5.0
S8CONDSP	11536	0.03	0.27	0.0	6.0



S9CONDSP	10507	0.04	0.28	0.0	7.0
S10CONDSP	9417	0.06	0.41	0.0	8.0
S11CONDSP	12175	0.03	0.29	0.0	9.0
S12CONDSP	10860	0.03	0.23	0.0	6.0

### Categorical Variable Codes

Value	R2HIBPS	R3HIBPS	R4HIBPS	R5HIBPS	R6HIBPS	R7HIBPS
.D=DK/NA	4	4	8	6	9	12
.M=Oth missing		10	12	14	19	18
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF				1		1
0.No	11029	17072	15553	18399	16920	15763
1.Yes	390	635	720	894	990	863

Value	R8HIBPS	R9HIBPS	R10HIBPS	R11HIBPS	R12HIBPS
.D=DK/NA	19	15	23	23	16
.M=Oth missing	19	19	22	28	40
.P=No prev IW	208	143	6439	331	178
.R=RF		4	1	2	2
0.No	17287	16152	14761	19325	17798
1.Yes	936	884	788	845	713

Value	S2HIBPS	S3HIBPS	S4HIBPS	S5HIBPS	S6HIBPS	S7HIBPS
.D=DK/NA	3	2	4	2	3	3
.M=Oth missing		4	4	6	9	10
.P=No prev IW	4348	240	3504	247	210	2485
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8443	11290	10004	11881	10795	9946
1.Yes	294	379	462	594	622	528

Value	S8HIBPS	S9HIBPS	S10HIBPS	S11HIBPS	S12HIBPS
.D=DK/NA	4	6	8	12	7
.M=Oth missing	8	6	10	15	24
.P=No prev IW	199	139	4096	313	167
.R=RF		3	1	2	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10917	9959	8925	11625	10423
1.Yes	607	533	473	521	405

Value	R2DIABS	R3DIABS	R4DIABS	R5DIABS	R6DIABS	R7DIABS
.D=DK/NA	5	8	7	3	4	13
.M=Oth missing		12	17	17	19	18
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF		2		3	1	1
0.No	11224	17359	15953	18866	17383	16198
1.Yes	194	340	316	425	531	427

Value	R8DIABS	R9DIABS	R10DIABS	R11DIABS	R12DIABS
.D=DK/NA	15	11	16	13	12
.M=Oth missing	21	25	26	31	32
.P=No prev IW	208	143	6439	331	178
.R=RF	2	3	3		1
0.No	17705	16589	15019	19630	17980
1.Yes	518	446	531	549	544

Value	S2DIABS	S3DIABS	S4DIABS	S5DIABS	S6DIABS	S7DIABS
.D=DK/NA	2	4	1	1	2	5
.M=Oth missing		5	6	7	10	11
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF				1		
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8603	11452	10279	12192	11074	10202
1.Yes	135	214	188	282	343	269

Value	S8DIABS	S9DIABS	S10DIABS	S11DIABS	S12DIABS
.D=DK/NA	6	4	3	6	1
.M=Oth missing	10	12	10	14	12
.P=No prev IW	199	139	4096	313	167
.R=RF	1	1	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11198	10208	9072	11842	10529
1.Yes	321	282	331	313	317

Value	R2CANCERS	R3CANCERS	R4CANCERS	R5CANCERS	R6CANCERS	R7CANCERS
.D=DK/NA	6	7	10	8	5	12
.M=Oth missing		9	17	23	28	26
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF	2	3	1	4	1	2
0.No	11276	17355	15884	18871	17437	16226
1.Yes	139	347	381	408	467	391

Value	R8CANCERS	R9CANCERS	R10CANCERS	R11CANCERS	R12CANCERS
.D=DK/NA	12	8	15	10	14
.M=Oth missing	35	37	39	46	42
.P=No prev IW	208	143	6439	331	178
.R=RF	2	3	1	2	1
0.No	17797	16615	15121	19734	18123
1.Yes	415	411	419	431	389

Value	S2CANCERS	S3CANCERS	S4CANCERS	S5CANCERS	S6CANCERS	S7CANCERS
.D=DK/NA	3	6	3	2	4	6
.M=Oth missing		5	10	12	13	14
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF	2	1	1	1	1	
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8628	11431	10213	12209	11118	10217
1.Yes	107	232	247	259	293	250

Value	S8CANCERS	S9CANCERS	S10CANCERS	S11CANCERS	S12CANCERS
.D=DK/NA	6	5	8	6	6
.M=Oth missing	17	16	17	23	19
.P=No prev IW	199	139	4096	313	167
.R=RF	1	2	1	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11255	10233	9123	11889	10586
1.Yes	257	251	268	257	248

Value	R2LUNGS	R3LUNGS	R4LUNGS	R5LUNGS	R6LUNGS	R7LUNGS
.D=DK/NA	2	1	4	6	8	7
.M=Oth missing		7	7	6	12	17
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF	1	1		3	1	2
0.No	11267	17512	16023	19012	17614	16335
1.Yes	153	200	259	287	303	296

Value	R8LUNGS	R9LUNGS	R10LUNGS	R11LUNGS	R12LUNGS
.D=DK/NA	16	6	10	6	12
.M=Oth missing	18	25	22	24	16
.P=No prev IW	208	143	6439	331	178
.R=RF	2	3	1	1	1
0.No	17930	16736	15253	19852	18218
1.Yes	295	304	309	340	322

Value	S2LUNGS	S3LUNGS	S4LUNGS	S5LUNGS	S6LUNGS	S7LUNGS
.D=DK/NA	2	1	2	2	4	2
.M=Oth missing		5	6	5	8	12
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF	1			1	1	
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8630	11549	10326	12298	11262	10297
1.Yes	107	120	140	177	154	176

Value	S8LUNGS	S9LUNGS	S10LUNGS	S11LUNGS	S12LUNGS
.D=DK/NA	7	4	2	2	3
.M=Oth missing	8	9	7	12	6
.P=No prev IW	199	139	4096	313	167
.R=RF	1	2	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11350	10328	9252	11991	10686
1.Yes	170	164	155	170	164

Value	R2HEARTS	R3HEARTS	R4HEARTS	R5HEARTS	R6HEARTS	R7HEARTS
.D=DK/NA	1	1	7	2	9	13
.M=Oth missing		6	7	10	10	17
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF		1		2	1	1
0.No	11168	17113	15714	18680	17251	15989
1.Yes	254	600	565	620	667	637

Value	R8HEARTS	R9HEARTS	R10HEARTS	R11HEARTS	R12HEARTS
.D=DK/NA	12	7	8	12	19
.M=Oth missing	24	27	22	24	25
.P=No prev IW	208	143	6439	331	178
.R=RF	2	3	2	2	2
0.No	17588	16462	14873	19540	17872
1.Yes	635	575	690	645	651

Value	S2HEARTS	S3HEARTS	S4HEARTS	S5HEARTS	S6HEARTS	S7HEARTS
.D=DK/NA			3	1	4	6
.M=Oth missing		2	3	5	7	10
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF				1	1	
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8547	11311	10113	12111	11034	10111
1.Yes	193	362	355	365	383	360

Value	S8HEARTS	S9HEARTS	S10HEARTS	S11HEARTS	S12HEARTS
.D=DK/NA	3	4	3	5	7
.M=Oth missing	11	10	11	14	13
.P=No prev IW	199	139	4096	313	167
.R=RF	1	2	1	1	1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11152	10155	9023	11806	10490
1.Yes	369	336	379	349	349

Value	R2STROKS	R3STROKS	R4STROKS	R5STROKS	R6STROKS	R7STROKS
.D=DK/NA	1	3	5	1	7	5
.M=Oth missing		4	7	5	9	11
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF		2		4	1	1
0.No	11347	17361	15948	18939	17553	16327
1.Yes	75	351	333	365	368	313

Value	R8STROKS	R9STROKS	R10STROKS	R11STROKS	R12STROKS
.D=DK/NA	11	6	4	9	12
.M=Oth missing	11	15	16	17	19
.P=No prev IW	208	143	6439	331	178
.R=RF	2	3	2	1	3
0.No	17909	16748	15218	19851	18224
1.Yes	328	302	355	345	311

Value	S2STROKS	S3STROKS	S4STROKS	S5STROKS	S6STROKS	S7STROKS
.D=DK/NA		2	2	1	1	2
.M=Oth missing		3	5	3	6	7
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF				1	1	
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8694	11488	10306	12289	11238	10332
1.Yes	46	182	161	189	183	146

Value	S8STROKS	S9STROKS	S10STROKS	S11STROKS	S12STROKS
.D=DK/NA	5	2	1	4	3
.M=Oth missing	6	7	9	11	9
.P=No prev IW	199	139	4096	313	167
.R=RF	1	2	1		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11356	10355	9230	11997	10696
1.Yes	168	141	176	163	150

Value	R2PSYCHS	R3PSYCHS	R4PSYCHS	R5PSYCHS	R6PSYCHS	R7PSYCHS
.D=DK/NA		3	5	4	4	9
.M=Oth missing		6	7	6	9	13
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF	3	1		1	2	2
0.No	11204	17316	15954	18937	17497	16272
1.Yes	216	395	327	366	426	361

Value	R8PSYCHS	R9PSYCHS	R10PSYCHS	R11PSYCHS	R12PSYCHS
.D=DK/NA	11	7	14	10	12
.M=Oth missing	21	23	24	34	30
.P=No prev IW	208	143	6439	331	178
.R=RF	3	3	2	3	7
0.No	17768	16681	15209	19719	18136
1.Yes	458	360	346	457	384

Value	S2PSYCHS	S3PSYCHS	S4PSYCHS	S5PSYCHS	S6PSYCHS	S7PSYCHS
.D=DK/NA			4	2	1	4
.M=Oth missing		4	4	4	5	6
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF	2				1	1
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8590	11457	10307	12271	11199	10288
1.Yes	148	214	159	206	223	188

Value	S8PSYCHS	S9PSYCHS	S10PSYCHS	S11PSYCHS	S12PSYCHS
.D=DK/NA	7	4	4	3	4
.M=Oth missing	13	14	14	17	14
.P=No prev IW	199	139	4096	313	167
.R=RF	2	2	1		2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11250	10296	9216	11915	10647
1.Yes	264	191	182	240	193

Value	R2ARTHR	R3ARTHR	R4ARTHR	R5ARTHR	R6ARTHR	R7ARTHR
.D=DK/NA	4	1	7	7	13	11
.M=Oth missing		9	5	8	17	26
.P=No prev IW	8219	270	5091	265	227	3472
.R=RF		1		3	1	1
0.No	10768	15293	15187	18268	16928	15851
1.Yes	651	2417	1094	1028	979	768

Value	R8ARTHR	R9ARTHR	R10ARTHR	R11ARTHR	R12ARTHR
.D=DK/NA	4	7	14	10	12
.M=Oth missing	23	13	16	26	20
.P=No prev IW	208	143	6439	331	178
.R=RF	1	4	2	1	4
0.No	17467	16324	14891	19322	17745
1.Yes	766	726	672	864	788

Value	S2ARTHR	S3ARTHR	S4ARTHR	S5ARTHR	S6ARTHR	S7ARTHR
.D=DK/NA	3	1	3	5	8	7
.M=Oth missing		5	4	6	12	17
.P=No prev IW	4348	240	3504	247	210	2485
.R=RF				1	1	
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.No	8241	10347	9796	11805	10753	9955
1.Yes	496	1322	671	666	655	508

Value	S8ARTHR	S9ARTHR	S10ARTHR	S11ARTHR	S12ARTHR
.D=DK/NA	1	4	8	4	6
.M=Oth missing	15	7	11	16	10
.P=No prev IW	199	139	4096	313	167
.R=RF		2	1		1
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11009	10019	8969	11626	10379
1.Yes	511	475	428	529	464

Value	R2CONDSP	R3CONDSP	R4CONDSP	R5CONDSP	R6CONDSP	R7CONDSP
.P=No prv IW	8219	270	5091	265	227	3472
0.Used IW-1	11423	17354	15761	18859	17225	16204
1.Used IW-2		367	413	298	485	276
2.Used IW-3			119	114	120	87
3.Used IW-4				43	71	47
4.Used IW-5					37	27
5.Used IW-6						16

Value	R8CONDSP	R9CONDSP	R10CONDSP	R11CONDSP	R12CONDSP
.P=No prv IW	208	143	6439	331	178
0.Used IW-1	17823	16493	15031	19783	18075
1.Used IW-2	255	405	292	258	365
2.Used IW-3	114	91	139	89	73
3.Used IW-4	39	53	60	56	26
4.Used IW-5	17	16	39	17	17
5.Used IW-6	9	5	18	7	4
6.Used IW-7	4	6	11	3	5
7.Used IW-8		5	2	4	3
8.Used IW-9			3	4	1
9.Used IW-10				2	

Value	S2CONDSP	S3CONDSP	S4CONDSP	S5CONDSP	S6CONDSP	S7CONDSP
.P=No prv IW	4348	240	3504	247	210	2485
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
0.Used IW-1	8740	11433	10178	12239	11042	10260
1.Used IW-2		242	229	164	279	133
2.Used IW-3			67	62	55	43
3.Used IW-4				18	38	22
4.Used IW-5					15	16
5.Used IW-6						13

Value	S8CONDSP	S9CONDSP	S10CONDSP	S11CONDSP	S12CONDSP
.P=No prv IW	199	139	4096	313	167
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	11318	10234	9115	11938	10626
1.Used IW-2	121	201	154	145	176
2.Used IW-3	64	41	80	44	36
3.Used IW-4	21	17	32	33	12
4.Used IW-5	8	8	23	11	9
5.Used IW-6		5	6	2	
6.Used IW-7	4		5		1
7.Used IW-8		1			
8.Used IW-9			2		
9.Used IW-10				2	

## How Constructed

The change in health measures were chosen for their consistency across waves. They include measures of overall health, functional limitation summaries, doctor-diagnosed health conditions, and assessment of mortality measures.

They are calculated as the current wave less the previous interview measures. If the Respondent missed an interview due to non-response, the change is between the current and the last interview that the Respondent did respond to. A flag for each change variable indicates how many interviews were missed prior to the current.

For further discussion of the Change in Health variables see the section titled "Health Change" earlier in this document.

RwHIBPS, RwDIABS, RwCANCERS, RwLUNGS, RwHEARTS, RwSTROKS, RwPSYCHS, and RwARTHRS indicate if the Respondent has reported the onset of a condition since the last interview to which s/he responded. They are set to "yes" only if the condition is new since last interview, that is, the Respondent reported not having the condition at the last interview but says s/he has it now.

RwCONDS is the count of the new individual conditions. RwCONDSM counts the number of missing values among the individual conditions, and RwCONDSF counts the number of values that were changed due to disputes. RwCONDSP tells which prior interview was used.

SwHIBPS, SwDIABS, SwCANCERS, SwLUNGS, SwHEARTS, SwSTROKS, SwPSYCHS, SwARTHRS, SwCONDS, SwCONDSP, SwCONDSM, and SwCONDSF are this information for the Respondent's spouse or partner.

Not all individuals respond to every interview. Respondents may miss one or more interviews between those they complete. RwCONDSP indicates if there are any missed interviews prior to the current, and if so, how many. In other words, it indicates how far back the previous interview is, from which the change is measured. Its codes are: 0) did not miss the previous interview; change = current - [current-1]; 1) missed the previous interview, but only one; change = current - [current-2]; 2) missed the two previous interviews; change = current - [current-3]; 3) missed the three previous interviews;

change = current - [current-4]; 4) missed the four previous interviews; change = current - [current-5]; 4) missed the five previous interviews; change = current - [current-6]; 9) either the current or previous interview measure is missing, so change is missing.

Please see the section on "Doctor-diagnosed Conditions" earlier in this section for a description of related "ever had" variables, the raw HRS variables, and cross-wave differences.

The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g., S3CONDS is taken from the Wave 3 spouse's R3CONDS.

### **Cross Wave Differences in Original HRS Data**

Please see the documentation of the variables used to derive these change-in-health variables for a description of cross-wave differences in the raw HRS data.



### Change in Health: Memory-related disease

Wave	Variable	Label	Type
5	R5MEMRYS	R5MEMRYS:W5 R had memory prob snce last IW	Categ
6	R6MEMRYS	R6MEMRYS:W6 R had memory prob snce last IW	Categ
7	R7MEMRYS	R7MEMRYS:W7 R had memory prob snce last IW	Categ
8	R8MEMRYS	R8MEMRYS:W8 R had memory prob snce last IW	Categ
9	R9MEMRYS	R9MEMRYS:W9 R had memory prob snce last IW	Categ
5	S5MEMRYS	S5MEMRYS:W5 S had memory prob snce last IW	Categ
6	S6MEMRYS	S6MEMRYS:W6 S had memory prob snce last IW	Categ
7	S7MEMRYS	S7MEMRYS:W7 S had memory prob snce last IW	Categ
8	S8MEMRYS	S8MEMRYS:W8 S had memory prob snce last IW	Categ
9	S9MEMRYS	S9MEMRYS:W9 S had memory prob snce last IW	Categ
11	R11ALZHES	R11ALZHES:W11 R had Alzheimer onset snce last IW	Categ
12	R12ALZHES	R12ALZHES:W12 R had Alzheimer onset snce last IW	Categ
11	S11ALZHES	S11ALZHES:W11 S had Alzheimer onset snce last IW	Categ
12	S12ALZHES	S12ALZHES:W12 S had Alzheimer onset snce last IW	Categ
11	R11DEMENS	R11DEMENS:W11 R had dementia onset snce last IW	Categ
12	R12DEMENS	R12DEMENS:W12 R had dementia onset snce last IW	Categ
11	S11DEMENS	S11DEMENS:W11 S had dementia onset snce last IW	Categ
12	S12DEMENS	S12DEMENS:W12 S had dementia onset snce last IW	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R5MEMRYS	18845	0.02	0.13	0.0	1.0
R6MEMRYS	17693	0.02	0.14	0.0	1.0
R7MEMRYS	16552	0.02	0.15	0.0	1.0
R8MEMRYS	18211	0.02	0.13	0.0	1.0
R9MEMRYS	13107	0.06	0.24	0.0	1.0
S5MEMRYS	12231	0.01	0.11	0.0	1.0
S6MEMRYS	11315	0.01	0.11	0.0	1.0
S7MEMRYS	10432	0.01	0.12	0.0	1.0
S8MEMRYS	11516	0.01	0.12	0.0	1.0
S9MEMRYS	7804	0.04	0.20	0.0	1.0
R11ALZHES	19710	0.01	0.08	0.0	1.0
R12ALZHES	18374	0.01	0.08	0.0	1.0
S11ALZHES	11910	0.00	0.06	0.0	1.0
S12ALZHES	10779	0.00	0.07	0.0	1.0
R11DEMENS	19408	0.01	0.11	0.0	1.0
R12DEMENS	18094	0.01	0.11	0.0	1.0
S11DEMENS	11802	0.01	0.09	0.0	1.0
S12DEMENS	10689	0.01	0.10	0.0	1.0

## Categorical Variable Codes

Value		R5MEMRYS	R6MEMRYS	R7MEMRYS
.D=DK/NA		6	11	13
.P=No prev IW		728	460	3563
.R=RF			1	1
0.No		18518	17355	16177
1.Yes		327	338	375

Value		R8MEMRYS	R9MEMRYS
.D=DK/NA		14	12
.M=Oth missing		1	4
.P=No prev IW		239	4092
.R=RF		4	2
0.No		17873	12309
1.Yes		338	798

Value		S5MEMRYS	S6MEMRYS	S7MEMRYS
.D=DK/NA		5	3	4
.P=No prev IW		494	320	2536
.R=RF			1	
.U=Unmarried		6538	6306	6777
.V=Spouse NR		311	220	380
0.No		12088	11181	10279
1.Yes		143	134	153

Value		S8MEMRYS	S9MEMRYS
.D=DK/NA		6	3
.M=Oth missing			2
.P=No prev IW		211	2836
.R=RF		2	1
.U=Unmarried		6417	6206
.V=Spouse NR		317	365
0.No		11357	7482
1.Yes		159	322

Value		R11ALZHES	R12ALZHES
.D=DK/NA		10	14
.M=Oth missing		422	164
.P=No prev IW		410	193
.R=RF		2	2
0.No		19578	18250
1.Yes		132	124

Value		S11ALZHES	S12ALZHES
.D=DK/NA		3	4
.M=Oth missing		218	73
.P=No prev IW		357	170
.R=RF			1
.U=Unmarried		7474	7127
.V=Spouse NR		592	593
0.No		11860	10731
1.Yes		50	48

Value		R11DEMENS	R12DEMENS
.D=DK/NA		12	23
.M=Oth missing		718	434
.P=No prev IW		410	193
.R=RF		6	3
0.No		19187	17856
1.Yes		221	238

Value		S11DEMENS	S12DEMENS
.D=DK/NA		3	7
.M=Oth missing		325	160
.P=No prev IW		357	170
.R=RF		1	1
.U=Unmarried		7474	7127
.V=Spouse NR		592	593
0.No		11713	10589
1.Yes		89	100

## How Constructed

The change in health measures were chosen for their consistency across waves. They include measures of overall health, functional limitation summaries, doctor-diagnosed health conditions, and assessment of mortality measures.

They are calculated as the current wave less the previous interview measures. If the Respondent missed an interview due to non-response, the change is between the current and the last interview that the Respondent did respond to. A flag for each change variable indicates how many interviews were missed prior to the current.

For further discussion of the Change in Health variables see the section titled "Health Change" earlier in this document.

In Wave 10, the health questionnaire changed. Respondents are now asked if they have ever been told they have Alzheimer's disease or dementia rather than memory-related disease as in previous waves.

RwMEMRYS indicates if the Respondent has reported the onset of a memory-related disease since the last interview to which s/he responded. RwALZHES indicates if the Respondent has reported the onset of a Alzheimer's disease since the last interview to which s/he responded. RwDEMENS indicates if the Respondent has reported the onset of dementia since the last interview to which s/he responded. The variables are set to "yes" only if the condition is new since last interview, that is, the Respondent reported not having the condition at the last interview but says s/he has it now.

RwMEMRYS, RwALZHES, and RwDEMENS are included with the Change in Health variables along with those for other doctor-diagnosed health conditions, but is NOT included in the sum of those, i.e., RwCONDS. The question about memory-related disease is first asked in Wave 4, so RwMEMRYS begins in Wave 5. The questions about Alzheimer's and

dementia begin in Wave 10, so RwALZHES and RwDEMENS begin in Wave 11.

SwMEMRYS, SwALZHES, and SwDEMENS are the information for the Respondent's spouse. It is taken from the Wave "w" spouse's self-reported information, e.g., S5MEMRYS is taken from the Wave 5 spouse's R5MEMRYS.

Please see the section on "Doctor-diagnosed Conditions: Memory-related disease" earlier in this section for a description of related "ever had" variables, the raw HRS variables, and cross-wave differences.

### **Cross Wave Differences in Original HRS Data**

Please see the documentation of the variables used to derive this change-in-health variable for a description of cross-wave differences in the raw HRS data.

### Imputed Cognition: Number Series Score

Wave	Variable	Label	Type
10	R10NSSCRE	R10NSSCRE:W10 R Calculated number series score	Cont
11	R11NSSCRE	R11NSSCRE:W11 R Calculated number series score	Cont
10	S10NSSCRE	S10NSSCRE:W10 S Calculated number series score	Cont
11	S11NSSCRE	S11NSSCRE:W11 S Calculated number series score	Cont
10	R10NSSCSE	R10NSSCSE:W10 R Calculated number series score-SE	Cont
11	R11NSSCSE	R11NSSCSE:W11 R Calculated number series score-SE	Cont
10	S10NSSCSE	S10NSSCSE:W10 S Calculated number series score-SE	Cont
11	S11NSSCSE	S11NSSCSE:W11 S Calculated number series score-SE	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R10NSSCRE	19098	494.04	44.24	390.2	579.6
R11NSSCRE	16833	519.56	32.84	409.0	584.0
S10NSSCRE	11904	499.01	43.02	390.2	579.6
S11NSSCRE	10639	523.30	31.64	409.0	584.0
R10NSSCSE	19098	14.52	7.70	7.8	38.2
R11NSSCSE	16833	11.33	2.66	9.0	19.0
S10NSSCSE	11904	14.13	7.42	7.8	38.2
S11NSSCSE	10639	11.28	2.62	9.0	19.0

### How Constructed

From the HRS documentation: "Number Series measures quantitative reasoning, a specific type of fluid cognitive ability or fluid intelligence. Quantitative reasoning ability involves reasoning with concepts that depend upon mathematical relationships. The number series task requires the Respondent to look at a series of numbers with a number missing from the series. The Respondent must determine the numerical pattern, and then provide the missing number in the series.

The HRS Number Series task is a 6-item block-adaptive test. "Block-adaptive" refers to the skip pattern among the items during test administration. The Number Series is based on two lists of 15 items. The 15 items are grouped into five sets or "blocks" of three items, grouped by item difficulty level. Item difficulty level refers to the probability that a Respondent will answer the item correctly. All Respondents are asked the same first three items, which consist of an easier item, a moderately difficult item, and a more difficult item. Based on the number of items answered correctly in the first block of three items, Respondents are then asked one of 4 remaining sets of three items: the easiest set, a somewhat easy set, a more difficult set, or a most difficult set. A score for the second set is then calculated.

The total score, RwnSSCRE, is a calculated score that takes into account which blocks of items were asked (i.e., the difficulty level of the items presented in terms of the probability that a Respondent will answer correctly) and the number of items answered correctly in each block. This calculated score is a standardized score called a W-score, comparable to the W-scores in the Woodcock-Johnson III (WJIII) test battery on which this task was based. The W-score metric was developed

by scaling to a mean of 500 in the WJIII norming sample. Higher scores indicate better performance on the number series task. RwnSSCSE is the standard error of the number series score. The value indicates the measurement precision of the total score."

These variables are only available in Wave 10 and 11. RwnSSCRE is taken directly from the HRS variables MNSSCORE and NNSSCORE, and RwnSSCSE is taken directly from the HRS variables MNSSCORESE and NNSSCORESE.

### Imputed Cognition: Status and Flags

Wave	Variable	Label	Type
1	R1STATUS	R1STATUS:W1 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
2	R2STATUS	R2STATUS:W2 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
3	R3STATUS	R3STATUS:W3 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
4	R4STATUS	R4STATUS:W4 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
5	R5STATUS	R5STATUS:W5 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
6	R6STATUS	R6STATUS:W6 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
7	R7STATUS	R7STATUS:W7 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
8	R8STATUS	R8STATUS:W8 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
9	R9STATUS	R9STATUS:W9 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
10	R10STATUS	R10STATUS:W10 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
11	R11STATUS	R11STATUS:W11 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
12	R12STATUS	R12STATUS:W12 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
1	S1STATUS	S1STATUS:W1 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
2	S2STATUS	S2STATUS:W2 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
3	S3STATUS	S3STATUS:W3 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
4	S4STATUS	S4STATUS:W4 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
5	S5STATUS	S5STATUS:W5 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
6	S6STATUS	S6STATUS:W6 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
7	S7STATUS	S7STATUS:W7 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
8	S8STATUS	S8STATUS:W8 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
9	S9STATUS	S9STATUS:W9 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
10	S10STATUS	S10STATUS:W10 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
11	S11STATUS	S11STATUS:W11 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
12	S12STATUS	S12STATUS:W12 STATUS: IMPUTATION ELIGIBILITY STATUS	Categ
2	R2FLAG	R2FLAG: 93 AHEAD OR 94 HRS	Categ
3	R3FLAG	R3FLAG: 95 AHEAD OR 96 HRS	Categ
2	S2FLAG	S2FLAG: 93 AHEAD OR 94 HRS	Categ
3	S3FLAG	S3FLAG: 95 AHEAD OR 96 HRS	Categ
4	R4NOTICS	R4NOTICS:W4 NOT ASKED TICS ITEMS	Categ
5	R5NOTICS	R5NOTICS:W5 NOT ASKED TICS ITEMS	Categ
6	R6NOTICS	R6NOTICS:W6 NOT ASKED TICS ITEMS	Categ
7	R7NOTICS	R7NOTICS:W7 NOT ASKED TICS ITEMS	Categ
8	R8NOTICS	R8NOTICS:W8 NOT ASKED TICS ITEMS	Categ
9	R9NOTICS	R9NOTICS:W9 NOT ASKED TICS ITEMS	Categ
10	R10NOTICS	R10NOTICS:W10 NOT ASKED TICS ITEMS	Categ
11	R11NOTICS	R11NOTICS:W11 NOT ASKED TICS ITEMS	Categ
12	R12NOTICS	R12NOTICS:W12 NOT ASKED TICS ITEMS	Categ
4	S4NOTICS	S4NOTICS:W4 NOT ASKED TICS ITEMS	Categ
5	S5NOTICS	S5NOTICS:W5 NOT ASKED TICS ITEMS	Categ
6	S6NOTICS	S6NOTICS:W6 NOT ASKED TICS ITEMS	Categ
7	S7NOTICS	S7NOTICS:W7 NOT ASKED TICS ITEMS	Categ
8	S8NOTICS	S8NOTICS:W8 NOT ASKED TICS ITEMS	Categ
9	S9NOTICS	S9NOTICS:W9 NOT ASKED TICS ITEMS	Categ
10	S10NOTICS	S10NOTICS:W10 NOT ASKED TICS ITEMS	Categ
11	S11NOTICS	S11NOTICS:W11 NOT ASKED TICS ITEMS	Categ
12	S12NOTICS	S12NOTICS:W12 NOT ASKED TICS ITEMS	Categ
7	R7NOVOC	R7NOVOC:W7 NOT ASKED VOCABULARY	Categ
8	R8NOVOC	R8NOVOC:W8 NOT ASKED VOCABULARY	Categ
9	R9NOVOC	R9NOVOC:W9 NOT ASKED VOCABULARY	Categ
10	R10NOVOC	R10NOVOC:W10 NOT ASKED VOCABULARY	Categ
11	R11NOVOC	R11NOVOC:W11 NOT ASKED VOCABULARY	Categ
12	R12NOVOC	R12NOVOC:W12 NOT ASKED VOCABULARY	Categ
7	S7NOVOC	S7NOVOC:W7 NOT ASKED VOCABULARY	Categ
8	S8NOVOC	S8NOVOC:W8 NOT ASKED VOCABULARY	Categ
9	S9NOVOC	S9NOVOC:W9 NOT ASKED VOCABULARY	Categ
10	S10NOVOC	S10NOVOC:W10 NOT ASKED VOCABULARY	Categ
11	S11NOVOC	S11NOVOC:W11 NOT ASKED VOCABULARY	Categ
12	S12NOVOC	S12NOVOC:W12 NOT ASKED VOCABULARY	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1STATUS	36063	2.33	0.94	1.0	3.0
R2STATUS	36167	1.98	0.99	1.0	3.0
R3STATUS	36167	2.07	0.98	1.0	3.0
R4STATUS	36167	1.89	0.97	1.0	3.0
R5STATUS	36167	1.98	0.98	1.0	3.0
R6STATUS	36167	2.06	0.97	1.0	3.0
R7STATUS	36167	1.94	0.98	1.0	3.0
R8STATUS	36167	2.02	0.98	1.0	3.0
R9STATUS	36167	2.08	0.98	1.0	3.0
R10STATUS	36167	1.82	0.97	1.0	3.0
R11STATUS	36167	1.90	0.98	1.0	4.0
R12STATUS	36167	2.00	0.99	1.0	3.0
S1STATUS	9725	1.08	0.33	1.0	3.0
S2STATUS	12958	1.11	0.38	1.0	3.0
S3STATUS	11870	1.11	0.39	1.0	3.0
S4STATUS	14048	1.13	0.41	1.0	3.0
S5STATUS	12703	1.13	0.38	1.0	3.0
S6STATUS	11613	1.13	0.38	1.0	3.0
S7STATUS	13033	1.12	0.38	1.0	3.0
S8STATUS	11823	1.09	0.35	1.0	3.0
S9STATUS	10800	1.10	0.38	1.0	3.0
S10STATUS	13785	1.11	0.40	1.0	3.0
S11STATUS	12736	1.10	0.39	1.0	4.0
S12STATUS	11306	1.11	0.42	1.0	3.0
R2FLAG	18073	93.59	0.49	93.0	94.0
R3FLAG	16351	95.63	0.48	95.0	96.0
S2FLAG	11936	93.68	0.47	93.0	94.0
S3FLAG	10804	95.71	0.46	95.0	96.0
R4NOTICS	21384	0.33	0.47	0.0	1.0
R5NOTICS	19579	0.41	0.49	0.0	1.0
R6NOTICS	18166	0.36	0.48	0.0	1.0
R7NOTICS	20129	0.26	0.44	0.0	1.0
R8NOTICS	18469	0.36	0.48	0.0	1.0
R9NOTICS	17217	0.32	0.47	0.0	1.0
R10NOTICS	22034	0.21	0.41	0.0	1.0
R11NOTICS	20554	0.45	0.50	0.0	1.0
R12NOTICS	18747	0.43	0.49	0.0	1.0
S4NOTICS	13978	0.36	0.48	0.0	1.0
S5NOTICS	12730	0.46	0.50	0.0	1.0
S6NOTICS	11639	0.41	0.49	0.0	1.0
S7NOTICS	12972	0.30	0.46	0.0	1.0
S8NOTICS	11735	0.42	0.49	0.0	1.0
S9NOTICS	10646	0.37	0.48	0.0	1.0
S10NOTICS	13513	0.24	0.43	0.0	1.0
S11NOTICS	12488	0.47	0.50	0.0	1.0
S12NOTICS	11027	0.46	0.50	0.0	1.0
R7NOVOC	20129	0.75	0.43	0.0	1.0
R8NOVOC	18469	0.36	0.48	0.0	1.0
R9NOVOC	17217	0.93	0.26	0.0	1.0
R10NOVOC	22034	0.21	0.41	0.0	1.0



R11NOVOC	20554	0.92	0.27	0.0	1.0
R12NOVOC	18747	0.94	0.25	0.0	1.0
S7NOVOC	12972	0.73	0.44	0.0	1.0
S8NOVOC	11735	0.42	0.49	0.0	1.0
S9NOVOC	10646	0.93	0.26	0.0	1.0
S10NOVOC	13513	0.24	0.43	0.0	1.0
S11NOVOC	12488	0.92	0.28	0.0	1.0
S12NOVOC	11027	0.93	0.25	0.0	1.0

### Categorical Variable Codes

Value	R1STATUS	R2STATUS	R3STATUS	R4STATUS	R5STATUS	R6STATUS	R7STATUS
.C=Hrs-Ahd overlap	124	17	17	17	17	17	17
.X=NR or Proxy all IW	1308	1311	1311	1311	1311	1311	1311
1.Cog meas	11883	18073	16351	19341	17517	16129	18327
2.Proxy IW	395	786	1093	1562	1709	1763	1546
3.Non-resp	23785	17308	18723	15264	16941	18275	16294

Value	R8STATUS	R9STATUS	R10STATUS	R11STATUS	R12STATUS
.C=Hrs-Ahd overlap	17	17	17	17	17
.X=NR or Proxy all IW	1311	1311	1311	1311	1311
1.Cog meas	17209	16077	20652	19407	17698
2.Proxy IW	1083	978	1202	971	899
3.Non-resp	17875	19112	14313	15788	17570
4.Self IW, No cog meas				1	

Value	S1STATUS	S2STATUS	S3STATUS	S4STATUS	S5STATUS	S6STATUS	S7STATUS
.C=Hrs-Ahd overlap	121	1					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.X=NR or Proxy all IW	433	713	463	467	338	246	319
1.Cog meas	9166	11936	10804	12571	11320	10280	11769
2.Proxy IW	377	680	768	1086	1151	1165	1001
3.Non-resp	182	342	298	391	232	168	263

Value	S8STATUS	S9STATUS	S10STATUS	S11STATUS	S12STATUS
.U=Unmarried	6417	6206	7799	7474	7127
.X=NR or Proxy all IW	229	211	450	344	314
1.Cog meas	10943	9989	12696	11838	10438
2.Proxy IW	644	530	662	501	460
3.Non-resp	236	281	427	396	408
4.Self IW, No cog meas				1	

Value	R2FLAG	R3FLAG
.S=Proxy IW	786	1093
.X=NR or Proxy all IW	783	547
93.Ahead W2	7382	
94.HRS W2	10691	
95.Ahead W3		6126
96.HRS W3		10225

Value	S2FLAG	S3FLAG
.S=Proxy IW	680	768
.U=Unmarried	5970	5658
.V=Spouse NR	584	418
.X=NR or Proxy all IW	472	343
93.Ahead W2	3866	
94.HRS W2	8070	
95.Ahead W3		3183
96.HRS W3		7621

Value	R4NOTICS	R5NOTICS	R6NOTICS	R7NOTICS
0.Asked	14373	11566	11647	14885
1.Not asked	7011	8013	6519	5244

Value	R8NOTICS	R9NOTICS	R10NOTICS	R11NOTICS	R12NOTICS
0.Asked	11777	11658	17413	11397	10741
1.Not asked	6692	5559	4621	9157	8006

Value	S4NOTICS	S5NOTICS	S6NOTICS	S7NOTICS
.U=Unmarried	6869	6538	6306	6777
.V=Spouse NR	537	311	220	380
0.Asked	8888	6835	6858	9138
1.Not asked	5090	5895	4781	3834

Value	S8NOTICS	S9NOTICS	S10NOTICS	S11NOTICS	S12NOTICS
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Asked	6863	6696	10294	6573	5937
1.Not asked	4872	3950	3219	5915	5090

Value		R7NOVOC				
0.Asked		5063				
1.Not asked		15066				
Value		R8NOVOC	R9NOVOC	R10NOVOC	R11NOVOC	R12NOVOC
0.Asked		11777	1264	17413	1610	1217
1.Not asked		6692	15953	4621	18944	17530
Value		S7NOVOC				
.U=Unmarried		6777				
.V=Spouse NR		380				
0.Asked		3481				
1.Not asked		9491				
Value		S8NOVOC	S9NOVOC	S10NOVOC	S11NOVOC	S12NOVOC
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		317	365	722	592	593
0.Asked		6863	779	10294	1046	746
1.Not asked		4872	9867	3219	11442	10281

## How Constructed

These variables indicate whether and/or which cognitive functioning measures are provided. **RwSTATUS** indicates the overall status; **RwFLAG** indicates the interview year that applies for Waves 2-3; **RwNOTICS** flags cases not asked the TICS questions from Wave 4 forward; and **RwNOVOC** flags cases not asked the vocabulary questions from Wave 7 forward.

**RwSTATUS** has a value of "1" if cognition measures are provided, "2" if they are not because the interview was by proxy, and "3" if they are not because the Respondent did not respond. Special missings have been assigned when the Respondent did not appear in the imputation file from HRS, as follows: **.X** if there is no non-proxy interview across all waves, and **.C** if missing because the Respondent is an HRS-AHEAD overlap case. Except for Wave 1, a **.C** in **RwSTATUS** indicates HRS-AHEAD overlap cases that had a non-proxy interview in Wave 1, but never responded in AHEAD.

In Wave 1, HRS-AHEAD overlap cases are treated as non-responders in that wave in the imputation file. For these cases, if there is no non-proxy interview including Wave 1, we set **R1STATUS** to **.X**. Otherwise, **R1STATUS** is set to **.C**.

**R2FLAG** has values of 93 or 94, and **R3FLAG** has values of 95 or 96. These indicate the interview years that were used to derive the measures. 93/95 include members of the AHEAD cohort, while 94/96 include members of the HRS cohort.

From Wave 4 forward, Respondents 65 and older who had a prior interview skipped the date, object, and President/Vice-president naming and vocabulary tasks. **RwNOTICS** is set to "1" if the Respondent skipped these tasks based on age and re-interview status, and "0" if the Respondent was asked to perform them.

From Wave 7 forward, the vocabulary questions appear to be asked in alternate years. They are not asked in Wave 7. **RwNOVOC** is set to "1" if the Respondent skipped the vocabulary questions based on age, re-interview status, and alternate year settings, and "0" if the Respondent was asked to perform the vocabulary task.

**Note:** Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (**.X**), the specific interview was by proxy (**.S**), cognition measure not asked (reinterview/lt 65) (**.N**), and in Wave 1 when the

Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The SwSTATUS, SwFLAG, SwNOTICS, and SwNOVOC variables were taken from the respective Rw variables for the Wave "w" spouse.

Note that the variable names RwNOTICS and RwNOVOC have been shortened from RwNOTASKTICS and RwNOTASKVOC in the original HRS imputation file to conform to the current 8-character limit.

### **General Comments**

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

### Imputed Cognition: Self-reported Memory

Wave	Variable	Label	Type
1	R1SLFMEM	R1SLFMEM: W1 SELF RATED MEMORY	Categ
2	R2SLFMEM	R2SLFMEM: W2 SELF RATED MEMORY	Categ
3	R3SLFMEM	R3SLFMEM: W3 SELF RATED MEMORY	Categ
4	R4SLFMEM	R4SLFMEM: W4 SELF RATED MEMORY	Categ
5	R5SLFMEM	R5SLFMEM: W5 SELF RATED MEMORY	Categ
6	R6SLFMEM	R6SLFMEM: W6 SELF RATED MEMORY	Categ
7	R7SLFMEM	R7SLFMEM: W7 SELF RATED MEMORY	Categ
8	R8SLFMEM	R8SLFMEM: W8 SELF RATED MEMORY	Categ
9	R9SLFMEM	R9SLFMEM: W9 SELF RATED MEMORY	Categ
10	R10SLFMEM	R10SLFMEM: W10 SELF RATED MEMORY	Categ
11	R11SLFMEM	R11SLFMEM: W11 SELF RATED MEMORY	Categ
12	R12SLFMEM	R12SLFMEM: W12 SELF RATED MEMORY	Categ
1	S1SLFMEM	S1SLFMEM: W1 SELF RATED MEMORY	Categ
2	S2SLFMEM	S2SLFMEM: W2 SELF RATED MEMORY	Categ
3	S3SLFMEM	S3SLFMEM: W3 SELF RATED MEMORY	Categ
4	S4SLFMEM	S4SLFMEM: W4 SELF RATED MEMORY	Categ
5	S5SLFMEM	S5SLFMEM: W5 SELF RATED MEMORY	Categ
6	S6SLFMEM	S6SLFMEM: W6 SELF RATED MEMORY	Categ
7	S7SLFMEM	S7SLFMEM: W7 SELF RATED MEMORY	Categ
8	S8SLFMEM	S8SLFMEM: W8 SELF RATED MEMORY	Categ
9	S9SLFMEM	S9SLFMEM: W9 SELF RATED MEMORY	Categ
10	S10SLFMEM	S10SLFMEM: W10 SELF RATED MEMORY	Categ
11	S11SLFMEM	S11SLFMEM: W11 SELF RATED MEMORY	Categ
12	S12SLFMEM	S12SLFMEM: W12 SELF RATED MEMORY	Categ
1	R1FSLFME	R1FSLFME:W1 IMPFLAG: SELF RATED MEMORY	Categ
2	R2FSLFME	R2FSLFME:W2 IMPFLAG: SELF RATED MEMORY	Categ
3	R3FSLFME	R3FSLFME:W3 IMPFLAG: SELF RATED MEMORY	Categ
4	R4FSLFME	R4FSLFME:W4 IMPFLAG: SELF RATED MEMORY	Categ
5	R5FSLFME	R5FSLFME:W5 IMPFLAG: SELF RATED MEMORY	Categ
6	R6FSLFME	R6FSLFME:W6 IMPFLAG: SELF RATED MEMORY	Categ
7	R7FSLFME	R7FSLFME:W7 IMPFLAG: SELF RATED MEMORY	Categ
8	R8FSLFME	R8FSLFME:W8 IMPFLAG: SELF RATED MEMORY	Categ
9	R9FSLFME	R9FSLFME:W9 IMPFLAG: SELF RATED MEMORY	Categ
10	R10FSLFME	R10FSLFME:W10 IMPFLAG: SELF RATED MEMORY	Categ
11	R11FSLFME	R11FSLFME:W11 IMPFLAG: SELF RATED MEMORY	Categ
12	R12FSLFME	R12FSLFME:W12 IMPFLAG: SELF RATED MEMORY	Categ
1	S1FSLFME	S1FSLFME:W1 IMPFLAG: SELF RATED MEMORY	Categ
2	S2FSLFME	S2FSLFME:W2 IMPFLAG: SELF RATED MEMORY	Categ
3	S3FSLFME	S3FSLFME:W3 IMPFLAG: SELF RATED MEMORY	Categ
4	S4FSLFME	S4FSLFME:W4 IMPFLAG: SELF RATED MEMORY	Categ
5	S5FSLFME	S5FSLFME:W5 IMPFLAG: SELF RATED MEMORY	Categ
6	S6FSLFME	S6FSLFME:W6 IMPFLAG: SELF RATED MEMORY	Categ
7	S7FSLFME	S7FSLFME:W7 IMPFLAG: SELF RATED MEMORY	Categ
8	S8FSLFME	S8FSLFME:W8 IMPFLAG: SELF RATED MEMORY	Categ
9	S9FSLFME	S9FSLFME:W9 IMPFLAG: SELF RATED MEMORY	Categ
10	S10FSLFME	S10FSLFME:W10 IMPFLAG: SELF RATED MEMORY	Categ
11	S11FSLFME	S11FSLFME:W11 IMPFLAG: SELF RATED MEMORY	Categ
12	S12FSLFME	S12FSLFME:W12 IMPFLAG: SELF RATED MEMORY	Categ
1	R1PSTMEM	R1PSTMEM: W1 MEMORY COMPARED TO PAST	Categ
2	R2PSTMEM	R2PSTMEM: W2 MEMORY COMPARED TO PAST	Categ
3	R3PSTMEM	R3PSTMEM: W3 MEMORY COMPARED TO PAST	Categ
4	R4PSTMEM	R4PSTMEM: W4 MEMORY COMPARED TO PAST	Categ
5	R5PSTMEM	R5PSTMEM: W5 MEMORY COMPARED TO PAST	Categ
6	R6PSTMEM	R6PSTMEM: W6 MEMORY COMPARED TO PAST	Categ
7	R7PSTMEM	R7PSTMEM: W7 MEMORY COMPARED TO PAST	Categ
8	R8PSTMEM	R8PSTMEM: W8 MEMORY COMPARED TO PAST	Categ
9	R9PSTMEM	R9PSTMEM: W9 MEMORY COMPARED TO PAST	Categ
10	R10PSTMEM	R10PSTMEM: W10 MEMORY COMPARED TO PAST	Categ
11	R11PSTMEM	R11PSTMEM: W11 MEMORY COMPARED TO PAST	Categ
12	R12PSTMEM	R12PSTMEM: W12 MEMORY COMPARED TO PAST	Categ
1	S1PSTMEM	S1PSTMEM: W1 MEMORY COMPARED TO PAST	Categ

2	S2PSTMEM	S2PSTMEM: W2 MEMORY COMPARED TO PAST	Categ
3	S3PSTMEM	S3PSTMEM: W3 MEMORY COMPARED TO PAST	Categ
4	S4PSTMEM	S4PSTMEM: W4 MEMORY COMPARED TO PAST	Categ
5	S5PSTMEM	S5PSTMEM: W5 MEMORY COMPARED TO PAST	Categ
6	S6PSTMEM	S6PSTMEM: W6 MEMORY COMPARED TO PAST	Categ
7	S7PSTMEM	S7PSTMEM: W7 MEMORY COMPARED TO PAST	Categ
8	S8PSTMEM	S8PSTMEM: W8 MEMORY COMPARED TO PAST	Categ
9	S9PSTMEM	S9PSTMEM: W9 MEMORY COMPARED TO PAST	Categ
10	S10PSTMEM	S10PSTMEM: W10 MEMORY COMPARED TO PAST	Categ
11	S11PSTMEM	S11PSTMEM: W11 MEMORY COMPARED TO PAST	Categ
12	S12PSTMEM	S12PSTMEM: W12 MEMORY COMPARED TO PAST	Categ
1	R1FPSTME	R1FPSTME:W1 IMPFLAG: MEMORY COMPARED TO PAST	Categ
2	R2FPSTME	R2FPSTME:W2 IMPFLAG: MEMORY COMPARED TO PAST	Categ
3	R3FPSTME	R3FPSTME:W3 IMPFLAG: MEMORY COMPARED TO PAST	Categ
4	R4FPSTME	R4FPSTME:W4 IMPFLAG: MEMORY COMPARED TO PAST	Categ
5	R5FPSTME	R5FPSTME:W5 IMPFLAG: MEMORY COMPARED TO PAST	Categ
6	R6FPSTME	R6FPSTME:W6 IMPFLAG: MEMORY COMPARED TO PAST	Categ
7	R7FPSTME	R7FPSTME:W7 IMPFLAG: MEMORY COMPARED TO PAST	Categ
8	R8FPSTME	R8FPSTME:W8 IMPFLAG: MEMORY COMPARED TO PAST	Categ
9	R9FPSTME	R9FPSTME:W9 IMPFLAG: MEMORY COMPARED TO PAST	Categ
10	R10FPSTME	R10FPSTME:W10 IMPFLAG: MEMORY COMPARED TO PAST	Categ
11	R11FPSTME	R11FPSTME:W11 IMPFLAG: MEMORY COMPARED TO PAST	Categ
12	R12FPSTME	R12FPSTME:W12 IMPFLAG: MEMORY COMPARED TO PAST	Categ
1	S1FPSTME	S1FPSTME:W1 IMPFLAG: MEMORY COMPARED TO PAST	Categ
2	S2FPSTME	S2FPSTME:W2 IMPFLAG: MEMORY COMPARED TO PAST	Categ
3	S3FPSTME	S3FPSTME:W3 IMPFLAG: MEMORY COMPARED TO PAST	Categ
4	S4FPSTME	S4FPSTME:W4 IMPFLAG: MEMORY COMPARED TO PAST	Categ
5	S5FPSTME	S5FPSTME:W5 IMPFLAG: MEMORY COMPARED TO PAST	Categ
6	S6FPSTME	S6FPSTME:W6 IMPFLAG: MEMORY COMPARED TO PAST	Categ
7	S7FPSTME	S7FPSTME:W7 IMPFLAG: MEMORY COMPARED TO PAST	Categ
8	S8FPSTME	S8FPSTME:W8 IMPFLAG: MEMORY COMPARED TO PAST	Categ
9	S9FPSTME	S9FPSTME:W9 IMPFLAG: MEMORY COMPARED TO PAST	Categ
10	S10FPSTME	S10FPSTME:W10 IMPFLAG: MEMORY COMPARED TO PAST	Categ
11	S11FPSTME	S11FPSTME:W11 IMPFLAG: MEMORY COMPARED TO PAST	Categ
12	S12FPSTME	S12FPSTME:W12 IMPFLAG: MEMORY COMPARED TO PAST	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFMEM	11883	2.44	1.03	1.0	5.0
R2SLFMEM	18073	2.68	1.03	1.0	5.0
R3SLFMEM	16351	2.97	0.97	1.0	5.0
R4SLFMEM	19341	2.88	0.96	1.0	5.0
R5SLFMEM	17517	2.93	0.93	1.0	5.0
R6SLFMEM	16129	2.96	0.92	1.0	5.0
R7SLFMEM	18327	2.99	0.97	1.0	5.0
R8SLFMEM	17209	3.00	0.96	1.0	5.0
R9SLFMEM	16077	3.01	0.94	1.0	5.0
R10SLFMEM	20652	2.94	0.96	1.0	5.0
R11SLFMEM	19407	3.00	0.95	1.0	5.0
R12SLFMEM	17698	3.06	0.92	1.0	5.0
S1SLFMEM	9166	2.42	1.01	1.0	5.0
S2SLFMEM	11936	2.62	1.01	1.0	5.0
S3SLFMEM	10804	2.97	0.95	1.0	5.0
S4SLFMEM	12571	2.87	0.93	1.0	5.0
S5SLFMEM	11320	2.91	0.92	1.0	5.0
S6SLFMEM	10280	2.93	0.90	1.0	5.0
S7SLFMEM	11769	2.96	0.95	1.0	5.0
S8SLFMEM	10943	2.97	0.94	1.0	5.0

S9SLFMEM	9989	2.98	0.92	1.0	5.0
S10SLFMEM	12696	2.91	0.95	1.0	5.0
S11SLFMEM	11838	2.96	0.94	1.0	5.0
S12SLFMEM	10438	3.04	0.91	1.0	5.0
R1FSLFME	11883	0.01	0.08	0.0	1.0
R2FSLFME	18073	0.00	0.05	0.0	1.0
R3FSLFME	16351	0.00	0.03	0.0	1.0
R4FSLFME	19341	0.00	0.03	0.0	1.0
R5FSLFME	17517	0.00	0.04	0.0	1.0
R6FSLFME	16129	0.00	0.03	0.0	1.0
R7FSLFME	18327	0.00	0.06	0.0	1.0
R8FSLFME	17209	0.00	0.04	0.0	1.0
R9FSLFME	16077	0.00	0.03	0.0	1.0
R10FSLFME	20652	0.00	0.03	0.0	1.0
R11FSLFME	19407	0.00	0.03	0.0	1.0
R12FSLFME	17698	0.00	0.03	0.0	1.0
S1FSLFME	9166	0.00	0.06	0.0	1.0
S2FSLFME	11936	0.00	0.04	0.0	1.0
S3FSLFME	10804	0.00	0.03	0.0	1.0
S4FSLFME	12571	0.00	0.03	0.0	1.0
S5FSLFME	11320	0.00	0.03	0.0	1.0
S6FSLFME	10280	0.00	0.03	0.0	1.0
S7FSLFME	11769	0.00	0.05	0.0	1.0
S8FSLFME	10943	0.00	0.03	0.0	1.0
S9FSLFME	9989	0.00	0.02	0.0	1.0
S10FSLFME	12696	0.00	0.03	0.0	1.0
S11FSLFME	11838	0.00	0.04	0.0	1.0
S12FSLFME	10438	0.00	0.02	0.0	1.0
R1PSTMEM	11883	2.04	0.46	1.0	3.0
R2PSTMEM	18073	2.07	0.41	1.0	3.0
R3PSTMEM	16351	2.16	0.44	1.0	3.0
R4PSTMEM	19341	2.16	0.44	1.0	3.0
R5PSTMEM	17517	2.15	0.42	1.0	3.0
R6PSTMEM	16129	2.18	0.43	1.0	3.0
R7PSTMEM	18327	2.20	0.47	1.0	3.0
R8PSTMEM	17209	2.20	0.46	1.0	3.0
R9PSTMEM	16077	2.20	0.46	1.0	3.0
R10PSTMEM	20652	2.19	0.48	1.0	3.0
R11PSTMEM	19407	2.17	0.45	1.0	3.0
R12PSTMEM	17698	2.17	0.46	1.0	3.0
S1PSTMEM	9166	2.04	0.45	1.0	3.0
S2PSTMEM	11936	2.07	0.40	1.0	3.0
S3PSTMEM	10804	2.16	0.43	1.0	3.0
S4PSTMEM	12571	2.16	0.43	1.0	3.0
S5PSTMEM	11320	2.15	0.41	1.0	3.0
S6PSTMEM	10280	2.19	0.43	1.0	3.0
S7PSTMEM	11769	2.21	0.46	1.0	3.0
S8PSTMEM	10943	2.20	0.44	1.0	3.0
S9PSTMEM	9989	2.19	0.45	1.0	3.0
S10PSTMEM	12696	2.20	0.47	1.0	3.0
S11PSTMEM	11838	2.17	0.44	1.0	3.0
S12PSTMEM	10438	2.17	0.44	1.0	3.0
R1FPSTME	11883	0.01	0.07	0.0	1.0
R2FPSTME	18073	0.00	0.05	0.0	1.0

R3FPSTME	16351	0.00	0.03	0.0	1.0
R4FPSTME	19341	0.00	0.04	0.0	1.0
R5FPSTME	17517	0.00	0.04	0.0	1.0
R6FPSTME	16129	0.00	0.04	0.0	1.0
R7FPSTME	18327	0.00	0.06	0.0	1.0
R8FPSTME	17209	0.00	0.04	0.0	1.0
R9FPSTME	16077	0.00	0.05	0.0	1.0
R10FPSTME	20652	0.00	0.04	0.0	1.0
R11FPSTME	19407	0.00	0.04	0.0	1.0
R12FPSTME	17698	0.00	0.04	0.0	1.0
S1FPSTME	9166	0.00	0.06	0.0	1.0
S2FPSTME	11936	0.00	0.04	0.0	1.0
S3FPSTME	10804	0.00	0.03	0.0	1.0
S4FPSTME	12571	0.00	0.03	0.0	1.0
S5FPSTME	11320	0.00	0.04	0.0	1.0
S6FPSTME	10280	0.00	0.05	0.0	1.0
S7FPSTME	11769	0.00	0.06	0.0	1.0
S8FPSTME	10943	0.00	0.04	0.0	1.0
S9FPSTME	9989	0.00	0.04	0.0	1.0
S10FPSTME	12696	0.00	0.04	0.0	1.0
S11FPSTME	11838	0.00	0.04	0.0	1.0
S12FPSTME	10438	0.00	0.03	0.0	1.0

### Categorical Variable Codes

Value	R1SLFMEM	R2SLFMEM	R3SLFMEM	R4SLFMEM	R5SLFMEM	R6SLFMEM	R7SLFMEM
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
1.Excellent	2297	2430	1150	1514	1069	814	1170
2.Very good	4265	5439	3671	4787	4224	3994	4241
3.Good	3505	6456	6942	8336	7766	7059	7553
4.Fair	1474	3025	3703	3911	3730	3556	4401
5.Poor	342	723	885	793	728	706	962
Value	R8SLFMEM	R9SLFMEM	R10SLFMEM	R11SLFMEM	R12SLFMEM		
.M=Oth missing				1			
.S=Proxy IW	1083	978	1202	971	899		
.X=NR or Proxy all IW	177	162	180	175	150		
1.Excellent	991	833	1403	1093	771		
2.Very good	3981	3718	5094	4590	3850		
3.Good	7186	6875	8511	8011	7516		
4.Fair	4139	3793	4681	4740	4657		
5.Poor	912	858	963	973	904		



Value	S1SLFMEM	S2SLFMEM	S3SLFMEM	S4SLFMEM	S5SLFMEM	S6SLFMEM	S7SLFMEM
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
1.Excellent	1762	1668	699	924	690	529	746
2.Very good	3353	3828	2459	3182	2816	2594	2809
3.Good	2721	4208	4687	5514	5057	4630	4930
4.Fair	1094	1853	2420	2504	2343	2133	2739
5.Poor	236	379	539	447	414	394	545

Value	S8SLFMEM	S9SLFMEM	S10SLFMEM	S11SLFMEM	S12SLFMEM
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
1.Excellent	636	496	830	659	443
2.Very good	2600	2403	3268	2921	2354
3.Good	4673	4376	5282	4984	4509
4.Fair	2518	2253	2804	2747	2658
5.Poor	516	461	512	527	474

Value	R1FSLFME	R2FSLFME	R3FSLFME	R4FSLFME	R5FSLFME	R6FSLFME	R7FSLFME
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
0.Not imputed	11813	18028	16336	19318	17493	16111	18267
1.Imputed	70	45	15	23	24	18	60

Value	R8FSLFME	R9FSLFME	R10FSLFME	R11FSLFME	R12FSLFME
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	17186	16063	20631	19389	17681
1.Imputed	23	14	21	18	17

Value	S1FSLFME	S2FSLFME	S3FSLFME	S4FSLFME	S5FSLFME	S6FSLFME	S7FSLFME
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
0.Not imputed	9130	11919	10797	12559	11309	10269	11736
1.Imputed	36	17	7	12	11	11	33

Value	S8FSLFME	S9FSLFME	S10FSLFME	S11FSLFME	S12FSLFME
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	10934	9983	12682	11823	10434
1.Imputed	9	6	14	15	4

Value	R1PSTMEM	R2PSTMEM	R3PSTMEM	R4PSTMEM	R5PSTMEM	R6PSTMEM	R7PSTMEM
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
1.Better	1064	928	486	542	421	306	546
2.Same	9314	14886	12796	15143	14002	12553	13503
3.Worse	1505	2259	3069	3656	3094	3270	4278

Value	R8PSTMEM	R9PSTMEM	R10PSTMEM	R11PSTMEM	R12PSTMEM
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
1.Better	404	427	749	658	590
2.Same	12929	12042	15156	14870	13474
3.Worse	3876	3608	4747	3879	3634

Value	S1PSTMEM	S2PSTMEM	S3PSTMEM	S4PSTMEM	S5PSTMEM	S6PSTMEM	S7PSTMEM
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
1.Better	720	572	245	310	247	165	288
2.Same	7327	9971	8561	9894	9132	8048	8755
3.Worse	1119	1393	1998	2367	1941	2067	2726

Value	S8PSTMEM	S9PSTMEM	S10PSTMEM	S11PSTMEM	S12PSTMEM
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
1.Better	218	228	376	336	270
2.Same	8360	7612	9414	9200	8089
3.Worse	2365	2149	2906	2302	2079

Value	R1FPSTME	R2FPSTME	R3FPSTME	R4FPSTME	R5FPSTME	R6FPSTME	R7FPSTME
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
0.Not imputed	11817	18032	16332	19311	17482	16101	18252
1.Imputed	66	41	19	30	35	28	75
Value	R8FPSTME	R9FPSTME	R10FPSTME	R11FPSTME	R12FPSTME		
.M=Oth missing				1			
.S=Proxy IW	1083	978	1202	971	899		
.X=NR or Proxy all IW	177	162	180	175	150		
0.Not imputed	17176	16042	20612	19374	17676		
1.Imputed	33	35	40	33	22		
Value	S1FPSTME	S2FPSTME	S3FPSTME	S4FPSTME	S5FPSTME	S6FPSTME	S7FPSTME
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
0.Not imputed	9133	11921	10795	12560	11301	10259	11727
1.Imputed	33	15	9	11	19	21	42
Value	S8FPSTME	S9FPSTME	S10FPSTME	S11FPSTME	S12FPSTME		
.M=Oth missing				1			
.S=Proxy IW	644	530	662	501	460		
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	317	365	722	592	593		
.X=NR or Proxy all IW	148	127	155	148	129		
0.Not imputed	10922	9974	12676	11822	10429		
1.Imputed	21	15	20	16	9		

## How Constructed

RwSLFMEM provides self-reported general rating of memory, and RwpPSTMEM provides a self-reported measure of change in memory since the last interview or over the last two years.

RwSLFMEM ranges from 1 for excellent to 5 for poor memory. RwpPSTMEM ranges from 1 for better to 3 for worse.

RwFSLFME and RwpFPSTME indicate whether the values were imputed (=1) or not (=0).

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

SwSLFMEM, SwFSLFME, SwPSTMEM, and SwFPSTME are taken from the Wave "w" spouse's value for RwSLFMEM, RwFSLFME, RwpPSTMEM, and RwpFPSTME, respectively.

Note that the variable names RwFSLFME and RwpFPSTME have been shortened from RwFSLFMEM and RwpPSTMEM in the original HRS imputation file to conform to the current 8-character limit.

## General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

## Cross Wave Differences in Original HRS Data

In Waves 1 and 2H, the questions used for current memory and comparison to the past asked:

"How would you rate your ability to think quickly at the present time?"

And: "Compared with 2 years ago, how would you rate your ability to think quickly? Would you say it is much better now, somewhat better, about the same, somewhat worse, or much worse than it was then?"

In all other waves the wording was different, i.e.:

"How would you rate your memory at the present time?"

And: "Compared with (previous wave interview/two years ago), would you say your memory is better now, about the same, or worse than it was then?"

<b>Imputed Cognition: Immediate Word Recall</b>
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Wave	Variable	Label	Type
1	R1IMRC20	R1IMRC20: W1 IMMEDIATE WORD RECALL	Cont
1	S1IMRC20	S1IMRC20: W1 IMMEDIATE WORD RECALL	Cont
2	R2AIMR10	R2AIMR10:W2 IMMEDIATE WORD RECALL-AHD93	Cont
2	S2AIMR10	S2AIMR10:W2 IMMEDIATE WORD RECALL-AHD93	Cont
2	R2HIMR20	R2HIMR20:W2 IMMEDIATE WORD RECALL-HRS94	Cont
2	S2HIMR20	S2HIMR20:W2 IMMEDIATE WORD RECALL-HRS94	Cont
3	R3IMRC	R3IMRC: W3 IMMEDIATE WORD RECALL	Cont
4	R4IMRC	R4IMRC: W4 IMMEDIATE WORD RECALL	Cont
5	R5IMRC	R5IMRC: W5 IMMEDIATE WORD RECALL	Cont
6	R6IMRC	R6IMRC: W6 IMMEDIATE WORD RECALL	Cont
7	R7IMRC	R7IMRC: W7 IMMEDIATE WORD RECALL	Cont
8	R8IMRC	R8IMRC: W8 IMMEDIATE WORD RECALL	Cont
9	R9IMRC	R9IMRC: W9 IMMEDIATE WORD RECALL	Cont
10	R10IMRC	R10IMRC: W10 IMMEDIATE WORD RECALL	Cont
11	R11IMRC	R11IMRC: W11 IMMEDIATE WORD RECALL	Cont
12	R12IMRC	R12IMRC: W12 IMMEDIATE WORD RECALL	Cont
3	S3IMRC	S3IMRC: W3 IMMEDIATE WORD RECALL	Cont
4	S4IMRC	S4IMRC: W4 IMMEDIATE WORD RECALL	Cont
5	S5IMRC	S5IMRC: W5 IMMEDIATE WORD RECALL	Cont
6	S6IMRC	S6IMRC: W6 IMMEDIATE WORD RECALL	Cont
7	S7IMRC	S7IMRC: W7 IMMEDIATE WORD RECALL	Cont
8	S8IMRC	S8IMRC: W8 IMMEDIATE WORD RECALL	Cont
9	S9IMRC	S9IMRC: W9 IMMEDIATE WORD RECALL	Cont
10	S10IMRC	S10IMRC: W10 IMMEDIATE WORD RECALL	Cont
11	S11IMRC	S11IMRC: W11 IMMEDIATE WORD RECALL	Cont
12	S12IMRC	S12IMRC: W12 IMMEDIATE WORD RECALL	Cont
1	R1FIMRC	R1FIMRC: W1 IMPFLAG: IMMEDIATE WORD RECALL	Categ
2	R2FIMRC	R2FIMRC: W2 IMPFLAG: IMMEDIATE WORD RECALL	Categ
3	R3FIMRC	R3FIMRC: W3 IMPFLAG: IMMEDIATE WORD RECALL	Categ
4	R4FIMRC	R4FIMRC: W4 IMPFLAG: IMMEDIATE WORD RECALL	Categ
5	R5FIMRC	R5FIMRC: W5 IMPFLAG: IMMEDIATE WORD RECALL	Categ
6	R6FIMRC	R6FIMRC: W6 IMPFLAG: IMMEDIATE WORD RECALL	Categ
7	R7FIMRC	R7FIMRC: W7 IMPFLAG: IMMEDIATE WORD RECALL	Categ
8	R8FIMRC	R8FIMRC: W8 IMPFLAG: IMMEDIATE WORD RECALL	Categ
9	R9FIMRC	R9FIMRC: W9 IMPFLAG: IMMEDIATE WORD RECALL	Categ
10	R10FIMRC	R10FIMRC: W10 IMPFLAG: IMMEDIATE WORD RECALL	Categ
11	R11FIMRC	R11FIMRC: W11 IMPFLAG: IMMEDIATE WORD RECALL	Categ
12	R12FIMRC	R12FIMRC: W12 IMPFLAG: IMMEDIATE WORD RECALL	Categ
1	S1FIMRC	S1FIMRC: W1 IMPFLAG: IMMEDIATE WORD RECALL	Categ
2	S2FIMRC	S2FIMRC: W2 IMPFLAG: IMMEDIATE WORD RECALL	Categ
3	S3FIMRC	S3FIMRC: W3 IMPFLAG: IMMEDIATE WORD RECALL	Categ
4	S4FIMRC	S4FIMRC: W4 IMPFLAG: IMMEDIATE WORD RECALL	Categ
5	S5FIMRC	S5FIMRC: W5 IMPFLAG: IMMEDIATE WORD RECALL	Categ
6	S6FIMRC	S6FIMRC: W6 IMPFLAG: IMMEDIATE WORD RECALL	Categ
7	S7FIMRC	S7FIMRC: W7 IMPFLAG: IMMEDIATE WORD RECALL	Categ
8	S8FIMRC	S8FIMRC: W8 IMPFLAG: IMMEDIATE WORD RECALL	Categ
9	S9FIMRC	S9FIMRC: W9 IMPFLAG: IMMEDIATE WORD RECALL	Categ
10	S10FIMRC	S10FIMRC: W10 IMPFLAG: IMMEDIATE WORD RECALL	Categ
11	S11FIMRC	S11FIMRC: W11 IMPFLAG: IMMEDIATE WORD RECALL	Categ
12	S12FIMRC	S12FIMRC: W12 IMPFLAG: IMMEDIATE WORD RECALL	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IMRC20	11883	7.44	2.73	0.0	20.0
S1IMRC20	9166	7.56	2.69	0.0	20.0
R2AIMR10	7382	4.55	1.94	0.0	10.0
S2AIMR10	3866	4.83	1.88	0.0	10.0
R2HIMR20	10691	7.91	3.17	0.0	20.0
S2HIMR20	8070	8.01	3.12	0.0	20.0
R3IMRC	16351	5.54	1.88	0.0	10.0
R4IMRC	19341	5.66	1.86	0.0	10.0
R5IMRC	17517	5.47	1.82	0.0	10.0
R6IMRC	16129	5.47	1.76	0.0	10.0
R7IMRC	18327	5.43	1.68	0.0	10.0
R8IMRC	17209	5.39	1.74	0.0	10.0
R9IMRC	16077	5.36	1.72	0.0	10.0
R10IMRC	20652	5.37	1.65	0.0	10.0
R11IMRC	19407	5.32	1.68	0.0	10.0
R12IMRC	17698	5.34	1.73	0.0	10.0
S3IMRC	10804	5.73	1.80	0.0	10.0
S4IMRC	12571	5.84	1.78	0.0	10.0
S5IMRC	11320	5.64	1.75	0.0	10.0
S6IMRC	10280	5.63	1.71	0.0	10.0
S7IMRC	11769	5.59	1.62	0.0	10.0
S8IMRC	10943	5.56	1.68	0.0	10.0
S9IMRC	9989	5.51	1.67	0.0	10.0
S10IMRC	12696	5.51	1.61	0.0	10.0
S11IMRC	11838	5.47	1.64	0.0	10.0
S12IMRC	10438	5.52	1.67	0.0	10.0
R1FIMRC	11883	0.02	0.15	0.0	1.0
R2FIMRC	18073	0.04	0.19	0.0	1.0
R3FIMRC	16351	0.01	0.09	0.0	1.0
R4FIMRC	19341	0.01	0.09	0.0	1.0
R5FIMRC	17517	0.01	0.11	0.0	1.0
R6FIMRC	16129	0.02	0.14	0.0	1.0
R7FIMRC	18327	0.01	0.12	0.0	1.0
R8FIMRC	17209	0.01	0.11	0.0	1.0
R9FIMRC	16077	0.01	0.10	0.0	1.0
R10FIMRC	20652	0.01	0.10	0.0	1.0
R11FIMRC	19407	0.01	0.11	0.0	1.0
R12FIMRC	17698	0.01	0.10	0.0	1.0
S1FIMRC	9166	0.02	0.14	0.0	1.0
S2FIMRC	11936	0.03	0.17	0.0	1.0
S3FIMRC	10804	0.01	0.08	0.0	1.0
S4FIMRC	12571	0.01	0.08	0.0	1.0
S5FIMRC	11320	0.01	0.08	0.0	1.0
S6FIMRC	10280	0.02	0.14	0.0	1.0
S7FIMRC	11769	0.01	0.10	0.0	1.0
S8FIMRC	10943	0.01	0.10	0.0	1.0
S9FIMRC	9989	0.01	0.09	0.0	1.0

S10FIMRC	12696	0.01	0.10	0.0	1.0
S11FIMRC	11838	0.01	0.10	0.0	1.0
S12FIMRC	10438	0.01	0.09	0.0	1.0

Value	R1FIMRC	R2FIMRC	R3FIMRC	R4FIMRC	R5FIMRC	R6FIMRC	R7FIMRC
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
0.Not imputed	11622	17429	16210	19172	17313	15790	18065
1.Imputed	261	644	141	169	204	339	262

Value	R8FIMRC	R9FIMRC	R10FIMRC	R11FIMRC	R12FIMRC
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	16997	15919	20443	19166	17535
1.Imputed	212	158	209	241	163

Value	S1FIMRC	S2FIMRC	S3FIMRC	S4FIMRC	S5FIMRC	S6FIMRC	S7FIMRC
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
0.Not imputed	8995	11577	10732	12495	11244	10085	11638
1.Imputed	171	359	72	76	76	195	131

Value	S8FIMRC	S9FIMRC	S10FIMRC	S11FIMRC	S12FIMRC
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	10827	9916	12578	11708	10349
1.Imputed	116	73	118	130	89

## How Constructed

R1IMRC20, R2AIMR10, R2HIMR20, and RwIMRC provide measures for immediate word recall. They are counts of the number of words from a 10 or 20 word list that were recalled correctly.

In Waves 1 and 2H, the word list contained 20 nouns, which could be recalled in any order. In other waves, the list contained 10 words and Respondents were randomly assigned one of four lists, with a different assignment over four interviews and no overlap with the spouse. The variables R1IMRC20, R2HIMR20, and R2AIMR10 are named to indicate this difference in the measures for Waves 1 and 2.

RwFIMRC indicates whether the value was imputed (=1) or not (=0).

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The Sw immediate word recall variables were taken from the respective Rw variables for the Wave "w" spouse.

Note that the variable names R2AIMR10 and R2HIMR20 have been shortened from R2AIMRC10 and R2HIMRC20 in the original HRS imputation file to conform to the current 8-character limit.

### **General Comments**

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

### **Cross Wave Differences in Original HRS Data**

In Waves 1 and 2H, the word list contained 20 nouns while in other waves 10 nouns were listed. Also in waves other than 1 and 2H, Respondents were randomly assigned one of four non-overlapping lists, with a different list assignment over four interviews. In couple households, each spouse was assigned a different list.



<b>Imputed Cognition: Delayed Word Recall</b>
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Wave	Variable	Label	Type
1	R1DLRC20	R1DLRC20: W1 DELAYED WORD RECALL	Cont
1	S1DLRC20	S1DLRC20: W1 DELAYED WORD RECALL	Cont
2	R2ADLR10	R2ADLR10:W2 DELAYED WORD RECALL-AHD93	Cont
2	S2ADLR10	S2ADLR10:W2 DELAYED WORD RECALL-AHD93	Cont
2	R2HDLR20	R2HDLR20:W2 DELAYED WORD RECALL-HRS94	Cont
2	S2HDLR20	S2HDLR20:W2 DELAYED WORD RECALL-HRS94	Cont
3	R3DLRC	R3DLRC: W3 DELAYED WORD RECALL	Cont
4	R4DLRC	R4DLRC: W4 DELAYED WORD RECALL	Cont
5	R5DLRC	R5DLRC: W5 DELAYED WORD RECALL	Cont
6	R6DLRC	R6DLRC: W6 DELAYED WORD RECALL	Cont
7	R7DLRC	R7DLRC: W7 DELAYED WORD RECALL	Cont
8	R8DLRC	R8DLRC: W8 DELAYED WORD RECALL	Cont
9	R9DLRC	R9DLRC: W9 DELAYED WORD RECALL	Cont
10	R10DLRC	R10DLRC: W10 DELAYED WORD RECALL	Cont
11	R11DLRC	R11DLRC: W11 DELAYED WORD RECALL	Cont
12	R12DLRC	R12DLRC: W12 DELAYED WORD RECALL	Cont
3	S3DLRC	S3DLRC: W3 DELAYED WORD RECALL	Cont
4	S4DLRC	S4DLRC: W4 DELAYED WORD RECALL	Cont
5	S5DLRC	S5DLRC: W5 DELAYED WORD RECALL	Cont
6	S6DLRC	S6DLRC: W6 DELAYED WORD RECALL	Cont
7	S7DLRC	S7DLRC: W7 DELAYED WORD RECALL	Cont
8	S8DLRC	S8DLRC: W8 DELAYED WORD RECALL	Cont
9	S9DLRC	S9DLRC: W9 DELAYED WORD RECALL	Cont
10	S10DLRC	S10DLRC: W10 DELAYED WORD RECALL	Cont
11	S11DLRC	S11DLRC: W11 DELAYED WORD RECALL	Cont
12	S12DLRC	S12DLRC: W12 DELAYED WORD RECALL	Cont
1	R1FDLRC	R1FDLRC: W1 IMPFLAG: DELAYED WORD RECALL	Categ
2	R2FDLRC	R2FDLRC: W2 IMPFLAG: DELAYED WORD RECALL	Categ
3	R3FDLRC	R3FDLRC: W3 IMPFLAG: DELAYED WORD RECALL	Categ
4	R4FDLRC	R4FDLRC: W4 IMPFLAG: DELAYED WORD RECALL	Categ
5	R5FDLRC	R5FDLRC: W5 IMPFLAG: DELAYED WORD RECALL	Categ
6	R6FDLRC	R6FDLRC: W6 IMPFLAG: DELAYED WORD RECALL	Categ
7	R7FDLRC	R7FDLRC: W7 IMPFLAG: DELAYED WORD RECALL	Categ
8	R8FDLRC	R8FDLRC: W8 IMPFLAG: DELAYED WORD RECALL	Categ
9	R9FDLRC	R9FDLRC: W9 IMPFLAG: DELAYED WORD RECALL	Categ
10	R10FDLRC	R10FDLRC: W10 IMPFLAG: DELAYED WORD RECALL	Categ
11	R11FDLRC	R11FDLRC: W11 IMPFLAG: DELAYED WORD RECALL	Categ
12	R12FDLRC	R12FDLRC: W12 IMPFLAG: DELAYED WORD RECALL	Categ
1	S1FDLRC	S1FDLRC: W1 IMPFLAG: DELAYED WORD RECALL	Categ
2	S2FDLRC	S2FDLRC: W2 IMPFLAG: DELAYED WORD RECALL	Categ
3	S3FDLRC	S3FDLRC: W3 IMPFLAG: DELAYED WORD RECALL	Categ
4	S4FDLRC	S4FDLRC: W4 IMPFLAG: DELAYED WORD RECALL	Categ
5	S5FDLRC	S5FDLRC: W5 IMPFLAG: DELAYED WORD RECALL	Categ
6	S6FDLRC	S6FDLRC: W6 IMPFLAG: DELAYED WORD RECALL	Categ
7	S7FDLRC	S7FDLRC: W7 IMPFLAG: DELAYED WORD RECALL	Categ
8	S8FDLRC	S8FDLRC: W8 IMPFLAG: DELAYED WORD RECALL	Categ
9	S9FDLRC	S9FDLRC: W9 IMPFLAG: DELAYED WORD RECALL	Categ
10	S10FDLRC	S10FDLRC: W10 IMPFLAG: DELAYED WORD RECALL	Categ
11	S11FDLRC	S11FDLRC: W11 IMPFLAG: DELAYED WORD RECALL	Categ
12	S12FDLRC	S12FDLRC: W12 IMPFLAG: DELAYED WORD RECALL	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DLRC20	11883	5.40	2.91	0.0	20.0
S1DLRC20	9166	5.56	2.89	0.0	20.0
R2ADLR10	7382	3.16	2.24	0.0	10.0
S2ADLR10	3866	3.49	2.19	0.0	10.0
R2HDLR20	10691	6.03	3.35	0.0	20.0
S2HDLR20	8070	6.14	3.31	0.0	20.0
R3DLRC	16351	4.40	2.27	0.0	10.0
R4DLRC	19341	4.55	2.25	0.0	10.0
R5DLRC	17517	4.41	2.17	0.0	10.0
R6DLRC	16129	4.50	2.11	0.0	10.0
R7DLRC	18327	4.35	2.03	0.0	10.0
R8DLRC	17209	4.33	2.08	0.0	10.0
R9DLRC	16077	4.32	2.05	0.0	10.0
R10DLRC	20652	4.29	1.97	0.0	10.0
R11DLRC	19407	4.27	2.00	0.0	10.0
R12DLRC	17698	4.31	2.03	0.0	10.0
S3DLRC	10804	4.62	2.18	0.0	10.0
S4DLRC	12571	4.77	2.16	0.0	10.0
S5DLRC	11320	4.63	2.09	0.0	10.0
S6DLRC	10280	4.70	2.03	0.0	10.0
S7DLRC	11769	4.55	1.95	0.0	10.0
S8DLRC	10943	4.55	1.99	0.0	10.0
S9DLRC	9989	4.50	1.98	0.0	10.0
S10DLRC	12696	4.46	1.91	0.0	10.0
S11DLRC	11838	4.47	1.95	0.0	10.0
S12DLRC	10438	4.53	1.97	0.0	10.0
R1FDLRC	11883	0.03	0.17	0.0	1.0
R2FDLRC	18073	0.05	0.22	0.0	1.0
R3FDLRC	16351	0.02	0.13	0.0	1.0
R4FDLRC	19341	0.02	0.13	0.0	1.0
R5FDLRC	17517	0.02	0.14	0.0	1.0
R6FDLRC	16129	0.04	0.20	0.0	1.0
R7FDLRC	18327	0.02	0.15	0.0	1.0
R8FDLRC	17209	0.02	0.15	0.0	1.0
R9FDLRC	16077	0.02	0.13	0.0	1.0
R10FDLRC	20652	0.03	0.16	0.0	1.0
R11FDLRC	19407	0.03	0.17	0.0	1.0
R12FDLRC	17698	0.03	0.16	0.0	1.0
S1FDLRC	9166	0.03	0.16	0.0	1.0
S2FDLRC	11936	0.04	0.20	0.0	1.0
S3FDLRC	10804	0.01	0.11	0.0	1.0
S4FDLRC	12571	0.01	0.11	0.0	1.0
S5FDLRC	11320	0.01	0.11	0.0	1.0
S6FDLRC	10280	0.03	0.18	0.0	1.0
S7FDLRC	11769	0.02	0.13	0.0	1.0
S8FDLRC	10943	0.02	0.13	0.0	1.0
S9FDLRC	9989	0.01	0.11	0.0	1.0

S10FDLRC	12696	0.02	0.14	0.0	1.0
S11FDLRC	11838	0.02	0.15	0.0	1.0
S12FDLRC	10438	0.02	0.14	0.0	1.0

## Categorical Variable Codes

Value	R1FDLRC	R2FDLRC	R3FDLRC	R4FDLRC	R5FDLRC	R6FDLRC	R7FDLRC
.C=HRS-AHD overlap	120						
.S=Proxy IW	395	786	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	254	783	547	481	353	273	256
0.Not imputed	11535	17174	16053	19001	17188	15483	17907
1.Imputed	348	899	298	340	329	646	420

Value	R8FDLRC	R9FDLRC	R10FDLRC	R11FDLRC	R12FDLRC
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	16838	15793	20107	18807	17227
1.Imputed	371	284	545	600	471

Value	S1FDLRC	S2FDLRC	S3FDLRC	S4FDLRC	S5FDLRC	S6FDLRC	S7FDLRC
.C=HRS-AHD overlap	117						
.S=Proxy IW	377	680	768	1086	1151	1165	1001
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NR or Proxy all IW	240	472	343	321	259	194	202
0.Not imputed	8933	11437	10660	12421	11184	9925	11564
1.Imputed	233	499	144	150	136	355	205

Value	S8FDLRC	S9FDLRC	S10FDLRC	S11FDLRC	S12FDLRC
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	10751	9861	12426	11553	10230
1.Imputed	192	128	270	285	208

## How Constructed

R1DLRC20, R2ADLR10, R2HDLR20, and RwDLRC provide measures for delayed word recall. They are counts of the number of words from the 10 or 20 word immediate recall list that were recalled correctly after a delay of about 5 minutes spent answering other survey questions.

In Waves 1 and 2H, the word list contained 20 nouns, which could be recalled in any order. In other waves, the list contained 10 words and Respondents were randomly assigned one of four lists, with a different assignment over four interviews and no overlap with the spouse. The variables R1DLRC20, R2HDLR20, and R2ADLR10 are named to indicate this difference in the measures for Waves 1 and 2.

RwFDLRC indicates whether the value was imputed (=1) or not (=0).

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews

(.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The Sw delayed word recall variables were taken from the respective Rw variables for the Wave "w" spouse.

Note that the variable names R2ADLR10 and R2HDLR20 have been shortened from R2ADLRC10 and R2HDLRC20 in the original HRS imputation file to conform to the current 8-character limit.

## **General Comments**

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

## **Cross Wave Differences in Original HRS Data**

In Waves 1 and 2H, the word list contained 20 nouns while in other waves 10 nouns were listed. Also in waves other than 1 and 2H, Respondents were randomly assigned one of four non-overlapping lists, with a different list assignment over four interviews. In couple households, each spouse was assigned a different list.

The questions asked during the five minute period between immediate and delayed word recall tasks varied across waves. Please see the HRS documentation (Wallace et.al.,2005; Fisher et.al., 2009; Fischer et.al., 2017) for a more complete description of the differences.

### Imputed Cognition: Serial 7's

Wave	Variable	Label	Type
2	R2SER7	R2SER7: W2 SERIAL 7S	Cont
3	R3SER7	R3SER7: W3 SERIAL 7S	Cont
4	R4SER7	R4SER7: W4 SERIAL 7S	Cont
5	R5SER7	R5SER7: W5 SERIAL 7S	Cont
6	R6SER7	R6SER7: W6 SERIAL 7S	Cont
7	R7SER7	R7SER7: W7 SERIAL 7S	Cont
8	R8SER7	R8SER7: W8 SERIAL 7S	Cont
9	R9SER7	R9SER7: W9 SERIAL 7S	Cont
10	R10SER7	R10SER7: W10 SERIAL 7S	Cont
11	R11SER7	R11SER7: W11 SERIAL 7S	Cont
12	R12SER7	R12SER7: W12 SERIAL 7S	Cont
2	S2SER7	S2SER7: W2 SERIAL 7S	Cont
3	S3SER7	S3SER7: W3 SERIAL 7S	Cont
4	S4SER7	S4SER7: W4 SERIAL 7S	Cont
5	S5SER7	S5SER7: W5 SERIAL 7S	Cont
6	S6SER7	S6SER7: W6 SERIAL 7S	Cont
7	S7SER7	S7SER7: W7 SERIAL 7S	Cont
8	S8SER7	S8SER7: W8 SERIAL 7S	Cont
9	S9SER7	S9SER7: W9 SERIAL 7S	Cont
10	S10SER7	S10SER7: W10 SERIAL 7S	Cont
11	S11SER7	S11SER7: W11 SERIAL 7S	Cont
12	S12SER7	S12SER7: W12 SERIAL 7S	Cont
2	R2FSER7	R2FSER7: W2 IMPFLAG: SERIAL 7S	Categ
3	R3FSER7	R3FSER7: W3 IMPFLAG: SERIAL 7S	Categ
4	R4FSER7	R4FSER7: W4 IMPFLAG: SERIAL 7S	Categ
5	R5FSER7	R5FSER7: W5 IMPFLAG: SERIAL 7S	Categ
6	R6FSER7	R6FSER7: W6 IMPFLAG: SERIAL 7S	Categ
7	R7FSER7	R7FSER7: W7 IMPFLAG: SERIAL 7S	Categ
8	R8FSER7	R8FSER7: W8 IMPFLAG: SERIAL 7S	Categ
9	R9FSER7	R9FSER7: W9 IMPFLAG: SERIAL 7S	Categ
10	R10FSER7	R10FSER7: W10 IMPFLAG: SERIAL 7S	Categ
11	R11FSER7	R11FSER7: W11 IMPFLAG: SERIAL 7S	Categ
12	R12FSER7	R12FSER7: W12 IMPFLAG: SERIAL 7S	Categ
2	S2FSER7	S2FSER7: W2 IMPFLAG: SERIAL 7S	Categ
3	S3FSER7	S3FSER7: W3 IMPFLAG: SERIAL 7S	Categ
4	S4FSER7	S4FSER7: W4 IMPFLAG: SERIAL 7S	Categ
5	S5FSER7	S5FSER7: W5 IMPFLAG: SERIAL 7S	Categ
6	S6FSER7	S6FSER7: W6 IMPFLAG: SERIAL 7S	Categ
7	S7FSER7	S7FSER7: W7 IMPFLAG: SERIAL 7S	Categ
8	S8FSER7	S8FSER7: W8 IMPFLAG: SERIAL 7S	Categ
9	S9FSER7	S9FSER7: W9 IMPFLAG: SERIAL 7S	Categ
10	S10FSER7	S10FSER7: W10 IMPFLAG: SERIAL 7S	Categ
11	S11FSER7	S11FSER7: W11 IMPFLAG: SERIAL 7S	Categ
12	S12FSER7	S12FSER7: W12 IMPFLAG: SERIAL 7S	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SER7	7382	3.19	1.71	0.0	5.0
R3SER7	16351	3.43	1.70	0.0	5.0
R4SER7	19341	3.47	1.70	0.0	5.0
R5SER7	17517	3.47	1.71	0.0	5.0
R6SER7	16129	3.49	1.73	0.0	5.0
R7SER7	18327	3.53	1.67	0.0	5.0
R8SER7	17209	3.51	1.71	0.0	5.0
R9SER7	16077	3.48	1.70	0.0	5.0

R10SER7	20652	3.40	1.68	0.0	5.0
R11SER7	19407	3.36	1.71	0.0	5.0
R12SER7	17698	3.42	1.69	0.0	5.0
S2SER7	3866	3.42	1.63	0.0	5.0
S3SER7	10804	3.61	1.61	0.0	5.0
S4SER7	12571	3.67	1.60	0.0	5.0
S5SER7	11320	3.65	1.62	0.0	5.0
S6SER7	10280	3.68	1.63	0.0	5.0
S7SER7	11769	3.70	1.58	0.0	5.0
S8SER7	10943	3.70	1.61	0.0	5.0
S9SER7	9989	3.67	1.60	0.0	5.0
S10SER7	12696	3.58	1.60	0.0	5.0
S11SER7	11838	3.55	1.62	0.0	5.0
S12SER7	10438	3.63	1.60	0.0	5.0
R2FSER7	7382	0.11	0.32	0.0	1.0
R3FSER7	16351	0.04	0.20	0.0	1.0
R4FSER7	19341	0.03	0.18	0.0	1.0
R5FSER7	17517	0.04	0.19	0.0	1.0
R6FSER7	16129	0.03	0.18	0.0	1.0
R7FSER7	18327	0.03	0.18	0.0	1.0
R8FSER7	17209	0.03	0.16	0.0	1.0
R9FSER7	16077	0.03	0.16	0.0	1.0
R10FSER7	20652	0.02	0.13	0.0	1.0
R11FSER7	19407	0.02	0.14	0.0	1.0
R12FSER7	17698	0.02	0.12	0.0	1.0
S2FSER7	3866	0.08	0.28	0.0	1.0
S3FSER7	10804	0.03	0.17	0.0	1.0
S4FSER7	12571	0.02	0.15	0.0	1.0
S5FSER7	11320	0.02	0.15	0.0	1.0
S6FSER7	10280	0.03	0.16	0.0	1.0
S7FSER7	11769	0.03	0.16	0.0	1.0
S8FSER7	10943	0.02	0.14	0.0	1.0
S9FSER7	9989	0.02	0.14	0.0	1.0
S10FSER7	12696	0.01	0.12	0.0	1.0
S11FSER7	11838	0.02	0.13	0.0	1.0
S12FSER7	10438	0.01	0.11	0.0	1.0

## Categorical Variable Codes

Value	R2FSER7	R3FSER7	R4FSER7	R5FSER7	R6FSER7	R7FSER7
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	6548	15644	18675	16859	15592	17695
1.Imputed	834	707	666	658	537	632

Value	R8FSER7	R9FSER7	R10FSER7	R11FSER7	R12FSER7
.M=Oth missing	1260	1140	1382	1147	1049
0.Not imputed	16778	15654	20304	19012	17425
1.Imputed	431	423	348	395	273

Value	S2FSER7	S3FSER7	S4FSER7	S5FSER7	S6FSER7	S7FSER7
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3541	10471	12268	11042	10022	11459
1.Imputed	325	333	303	278	258	310

Value	S8FSER7	S9FSER7	S10FSER7	S11FSER7	S12FSER7
.M=Oth missing	792	657	817	650	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not imputed	10718	9775	12515	11638	10304
1.Imputed	225	214	181	200	134

## How Constructed

RwSER7 provides the number of correct subtractions in the serial 7s test. This test asks the individual to subtract 7 from the prior number, beginning with 100 for five trials. Correct subtractions are based on the prior number given, so that even if one subtraction is incorrect subsequent trials are evaluated on the given (perhaps wrong) answer. Valid scores are 0-5.

RwFSER7 indicates whether the value was imputed (=1) or not (=0).

This task was not given to anyone in Waves 1 and 2H. In Wave 2H, R2SER7 and R2FSER7 are set to special missing .Q to indicate that it is missing for all HRS Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

SwSER7 is taken from the spouse's value for RwSER7.

## **General Comments**

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

## **Cross Wave Differences in Original HRS Data**

This question was not asked in Waves 1 and 2H, but is included in all other waves.



### Imputed Cognition: Backwards Counting

Wave	Variable	Label	Type
2	R2BWC20	R2BWC20: W2 BACKWARDS COUNT FROM 20	Categ
3	R3BWC20	R3BWC20: W3 BACKWARDS COUNT FROM 20	Categ
4	R4BWC20	R4BWC20: W4 BACKWARDS COUNT FROM 20	Categ
5	R5BWC20	R5BWC20: W5 BACKWARDS COUNT FROM 20	Categ
6	R6BWC20	R6BWC20: W6 BACKWARDS COUNT FROM 20	Categ
7	R7BWC20	R7BWC20: W7 BACKWARDS COUNT FROM 20	Categ
8	R8BWC20	R8BWC20: W8 BACKWARDS COUNT FROM 20	Categ
9	R9BWC20	R9BWC20: W9 BACKWARDS COUNT FROM 20	Categ
10	R10BWC20	R10BWC20: W10 BACKWARDS COUNT FROM 20	Categ
11	R11BWC20	R11BWC20: W11 BACKWARDS COUNT FROM 20	Categ
12	R12BWC20	R12BWC20: W12 BACKWARDS COUNT FROM 20	Categ
2	S2BWC20	S2BWC20: W2 BACKWARDS COUNT FROM 20	Categ
3	S3BWC20	S3BWC20: W3 BACKWARDS COUNT FROM 20	Categ
4	S4BWC20	S4BWC20: W4 BACKWARDS COUNT FROM 20	Categ
5	S5BWC20	S5BWC20: W5 BACKWARDS COUNT FROM 20	Categ
6	S6BWC20	S6BWC20: W6 BACKWARDS COUNT FROM 20	Categ
7	S7BWC20	S7BWC20: W7 BACKWARDS COUNT FROM 20	Categ
8	S8BWC20	S8BWC20: W8 BACKWARDS COUNT FROM 20	Categ
9	S9BWC20	S9BWC20: W9 BACKWARDS COUNT FROM 20	Categ
10	S10BWC20	S10BWC20: W10 BACKWARDS COUNT FROM 20	Categ
11	S11BWC20	S11BWC20: W11 BACKWARDS COUNT FROM 20	Categ
12	S12BWC20	S12BWC20: W12 BACKWARDS COUNT FROM 20	Categ
2	R2FBWC20	R2FBWC20: W2 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
3	R3FBWC20	R3FBWC20: W3 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
4	R4FBWC20	R4FBWC20: W4 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
5	R5FBWC20	R5FBWC20: W5 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
6	R6FBWC20	R6FBWC20: W6 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
7	R7FBWC20	R7FBWC20: W7 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
8	R8FBWC20	R8FBWC20: W8 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
9	R9FBWC20	R9FBWC20: W9 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
10	R10FBWC20	R10FBWC20: W10 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
11	R11FBWC20	R11FBWC20: W11 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
12	R12FBWC20	R12FBWC20: W12 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
2	S2FBWC20	S2FBWC20: W2 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
3	S3FBWC20	S3FBWC20: W3 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
4	S4FBWC20	S4FBWC20: W4 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
5	S5FBWC20	S5FBWC20: W5 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
6	S6FBWC20	S6FBWC20: W6 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
7	S7FBWC20	S7FBWC20: W7 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
8	S8FBWC20	S8FBWC20: W8 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
9	S9FBWC20	S9FBWC20: W9 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
10	S10FBWC20	S10FBWC20: W10 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
11	S11FBWC20	S11FBWC20: W11 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
12	S12FBWC20	S12FBWC20: W12 IMPFLAG: BACKWARDS COUNT FROM 20	Categ
3	R3BWC86	R3BWC86: W3 BACKWARDS COUNT FROM 86	Categ
4	R4BWC86	R4BWC86: W4 BACKWARDS COUNT FROM 86	Categ
5	R5BWC86	R5BWC86: W5 BACKWARDS COUNT FROM 86	Categ
6	R6BWC86	R6BWC86: W6 BACKWARDS COUNT FROM 86	Categ
3	S3BWC86	S3BWC86: W3 BACKWARDS COUNT FROM 86	Categ
4	S4BWC86	S4BWC86: W4 BACKWARDS COUNT FROM 86	Categ
5	S5BWC86	S5BWC86: W5 BACKWARDS COUNT FROM 86	Categ
6	S6BWC86	S6BWC86: W6 BACKWARDS COUNT FROM 86	Categ
3	R3FBWC86	R3FBWC86: W3 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
4	R4FBWC86	R4FBWC86: W4 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
5	R5FBWC86	R5FBWC86: W5 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
6	R6FBWC86	R6FBWC86: W6 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
3	S3FBWC86	S3FBWC86: W3 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
4	S4FBWC86	S4FBWC86: W4 IMPFLAG: BACKWARDS COUNT FROM 86	Categ
5	S5FBWC86	S5FBWC86: W5 IMPFLAG: BACKWARDS COUNT FROM 86	Categ

6 S6FBWC86 S6FBWC86: W6 IMPFLAG: BACKWARDS COUNT FROM 86 Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2BWC20	7382	1.81	0.55	0.0	2.0
R3BWC20	16351	1.91	0.41	0.0	2.0
R4BWC20	19341	1.91	0.42	0.0	2.0
R5BWC20	17517	1.90	0.43	0.0	2.0
R6BWC20	16129	1.91	0.41	0.0	2.0
R7BWC20	18327	1.89	0.44	0.0	2.0
R8BWC20	17209	1.88	0.47	0.0	2.0
R9BWC20	16077	1.88	0.46	0.0	2.0
R10BWC20	20652	1.85	0.52	0.0	2.0
R11BWC20	19407	1.84	0.53	0.0	2.0
R12BWC20	17698	1.85	0.52	0.0	2.0
S2BWC20	3866	1.86	0.48	0.0	2.0
S3BWC20	10804	1.93	0.37	0.0	2.0
S4BWC20	12571	1.92	0.38	0.0	2.0
S5BWC20	11320	1.92	0.39	0.0	2.0
S6BWC20	10280	1.93	0.37	0.0	2.0
S7BWC20	11769	1.91	0.41	0.0	2.0
S8BWC20	10943	1.90	0.44	0.0	2.0
S9BWC20	9989	1.91	0.42	0.0	2.0
S10BWC20	12696	1.87	0.48	0.0	2.0
S11BWC20	11838	1.86	0.51	0.0	2.0
S12BWC20	10438	1.87	0.48	0.0	2.0
R2FBWC20	7382	0.02	0.15	0.0	1.0
R3FBWC20	16351	0.02	0.12	0.0	1.0
R4FBWC20	19341	0.01	0.09	0.0	1.0
R5FBWC20	17517	0.01	0.09	0.0	1.0
R6FBWC20	16129	0.01	0.09	0.0	1.0
R7FBWC20	18327	0.01	0.09	0.0	1.0
R8FBWC20	17209	0.01	0.08	0.0	1.0
R9FBWC20	16077	0.01	0.07	0.0	1.0
R10FBWC20	20652	0.00	0.06	0.0	1.0
R11FBWC20	19407	0.00	0.06	0.0	1.0
R12FBWC20	17698	0.00	0.07	0.0	1.0
S2FBWC20	3866	0.02	0.13	0.0	1.0
S3FBWC20	10804	0.01	0.10	0.0	1.0
S4FBWC20	12571	0.00	0.07	0.0	1.0
S5FBWC20	11320	0.01	0.07	0.0	1.0
S6FBWC20	10280	0.01	0.07	0.0	1.0
S7FBWC20	11769	0.01	0.07	0.0	1.0
S8FBWC20	10943	0.00	0.07	0.0	1.0
S9FBWC20	9989	0.00	0.06	0.0	1.0
S10FBWC20	12696	0.00	0.06	0.0	1.0
S11FBWC20	11838	0.00	0.06	0.0	1.0
S12FBWC20	10438	0.00	0.06	0.0	1.0
R3BWC86	16351	1.73	0.68	0.0	2.0
R4BWC86	19341	1.72	0.69	0.0	2.0
R5BWC86	17517	1.72	0.69	0.0	2.0

R6BWC86	16129	1.74	0.67	0.0	2.0
S3BWC86	10804	1.76	0.65	0.0	2.0
S4BWC86	12571	1.76	0.65	0.0	2.0
S5BWC86	11320	1.76	0.65	0.0	2.0
S6BWC86	10280	1.77	0.64	0.0	2.0
R3FBWC86	16351	0.03	0.16	0.0	1.0
R4FBWC86	19341	0.01	0.10	0.0	1.0
R5FBWC86	17517	0.01	0.10	0.0	1.0
R6FBWC86	16129	0.01	0.10	0.0	1.0
S3FBWC86	10804	0.02	0.13	0.0	1.0
S4FBWC86	12571	0.01	0.08	0.0	1.0
S5FBWC86	11320	0.01	0.08	0.0	1.0
S6FBWC86	10280	0.01	0.08	0.0	1.0

### Categorical Variable Codes

Value		R2BWC20	R3BWC20	R4BWC20	R5BWC20	R6BWC20	R7BWC20
.Q=Not asked this cohort or		11420					
.S=Proxy IW		212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW		628	547	481	353	273	256
0.Incorrect		546	705	885	810	714	921
1.Correct, 2nd try		322	91	59	94	54	83
2.Correct, 1st try		6514	15555	18397	16613	15361	17323
Value		R8BWC20	R9BWC20	R10BWC20	R11BWC20	R12BWC20	
.M=Oth missing					1		
.S=Proxy IW		1083	978	1202	971	899	
.X=NR or Proxy all IW		177	162	180	175	150	
0.Incorrect		990	888	1479	1485	1287	
1.Correct, 2nd try		70	90	80	73	65	
2.Correct, 1st try		16149	15099	19093	17849	16346	

Value	S2BWC20	S3BWC20	S4BWC20	S5BWC20	S6BWC20	S7BWC20
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	204	380	468	427	364	514
1.Correct, 2nd try	134	33	27	50	24	34
2.Correct, 1st try	3528	10391	12076	10843	9892	11221

Value	S8BWC20	S9BWC20	S10BWC20	S11BWC20	S12BWC20
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	550	452	783	803	646
1.Correct, 2nd try	32	41	37	36	34
2.Correct, 1st try	10361	9496	11876	10999	9758

Value	R2FBWC20	R3FBWC20	R4FBWC20	R5FBWC20	R6FBWC20	R7FBWC20
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7222	16098	19195	17367	16001	18180
1.Imputed	160	253	146	150	128	147

Value	R8FBWC20	R9FBWC20	R10FBWC20	R11FBWC20	R12FBWC20
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	17105	15992	20566	19328	17621
1.Imputed	104	85	86	79	77

Value	S2FBWC20	S3FBWC20	S4FBWC20	S5FBWC20	S6FBWC20	S7FBWC20
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3803	10701	12509	11262	10228	11705
1.Imputed	63	103	62	58	52	64

Value	S8FBWC20	S9FBWC20	S10FBWC20	S11FBWC20	S12FBWC20
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	10895	9953	12652	11798	10405
1.Imputed	48	36	44	40	33

Value	R3BWC86	R4BWC86	R5BWC86	R6BWC86
.S=Proxy IW	1093	1562	1709	1763
.X=NR or Proxy all IW	547	481	353	273
0.Incorrect	2157	2662	2417	2092
1.Correct, 2nd try	151	94	114	81
2.Correct, 1st try	14043	16585	14986	13956

Value	S3BWC86	S4BWC86	S5BWC86	S6BWC86
.S=Proxy IW	768	1086	1151	1165
.U=Unmarried	5658	6869	6538	6306
.V=Spouse NR	418	537	311	220
.X=NR or Proxy all IW	343	321	259	194
0.Incorrect	1284	1485	1349	1171
1.Correct, 2nd try	58	46	51	27
2.Correct, 1st try	9462	11040	9920	9082

Value	R3FBWC86	R4FBWC86	R5FBWC86	R6FBWC86
.S=Proxy IW	1093	1562	1709	1763
.X=NR or Proxy all IW	547	481	353	273
0.Not imputed	15939	19135	17331	15974
1.Imputed	412	206	186	155

Value	S3FBWC86	S4FBWC86	S5FBWC86	S6FBWC86
.S=Proxy IW	768	1086	1151	1165
.U=Unmarried	5658	6869	6538	6306
.V=Spouse NR	418	537	311	220
.X=NR or Proxy all IW	343	321	259	194
0.Not imputed	10627	12486	11247	10221
1.Imputed	177	85	73	59

## How Constructed

RwBWC20 and RwBWC86 indicate whether the Respondent was able to successfully count backwards for 10 continuous numbers from 20 and 86, respectively. Two points are given if successful on the first try, one if successful on the second, and zero if not successful on either try.

RwFBWC20 and RwFBWC86 indicate whether the values were imputed (=1) or not (=0).

RwBWC20 is available in Wave 2A and from Waves 3 forward. Counting backwards from 86 was tested in Wave 3H and Waves 4 to 6. Neither test was included in Waves 1 and 2H. In Wave 2H, R2BWC20 and R2FBWC20 are set to special missing .Q to indicate that it is missing for all HRS Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

SwBWC20, SwFBWC20, SwBWC86, and SwFBWC86 are taken from the Wave "w" spouse's value for RwBWC20, RwFBWC20, RwBWC86, and RwFBWC86, respectively.

## **General Comments**

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

## **Cross Wave Differences in Original HRS Data**

Counting backwards from 20 is included in interviews for Wave 2A, and from Wave 3 forward. Counting backwards from 86 is included for Wave 3H and Waves 4 to 6. Neither test was included in interviews for Waves 1 and 2H.

Instructions were added in Wave 3 asking that the Respondent count backwards as quickly as possible.

### Imputed Cognition: Date Naming

Wave	Variable	Label	Type
2	R2MO	R2MO:W2 Cognition Date naming-Month	Categ
3	R3MO	R3MO:W3 Cognition Date naming-Month	Categ
4	R4MO	R4MO:W4 Cognition Date naming-Month	Categ
5	R5MO	R5MO:W5 Cognition Date naming-Month	Categ
6	R6MO	R6MO:W6 Cognition Date naming-Month	Categ
7	R7MO	R7MO:W7 Cognition Date naming-Month	Categ
8	R8MO	R8MO:W8 Cognition Date naming-Month	Categ
9	R9MO	R9MO:W9 Cognition Date naming-Month	Categ
10	R10MO	R10MO:W10 Cognition Date naming-Month	Categ
11	R11MO	R11MO:W11 Cognition Date naming-Month	Categ
12	R12MO	R12MO:W12 Cognition Date naming-Month	Categ
2	S2MO	S2MO:W2 Cognition Date naming-Month	Categ
3	S3MO	S3MO:W3 Cognition Date naming-Month	Categ
4	S4MO	S4MO:W4 Cognition Date naming-Month	Categ
5	S5MO	S5MO:W5 Cognition Date naming-Month	Categ
6	S6MO	S6MO:W6 Cognition Date naming-Month	Categ
7	S7MO	S7MO:W7 Cognition Date naming-Month	Categ
8	S8MO	S8MO:W8 Cognition Date naming-Month	Categ
9	S9MO	S9MO:W9 Cognition Date naming-Month	Categ
10	S10MO	S10MO:W10 Cognition Date naming-Month	Categ
11	S11MO	S11MO:W11 Cognition Date naming-Month	Categ
12	S12MO	S12MO:W12 Cognition Date naming-Month	Categ
2	R2FMO	R2FMO: W2 IMPFLAG: DATE: MONTH	Categ
3	R3FMO	R3FMO: W3 IMPFLAG: DATE: MONTH	Categ
4	R4FMO	R4FMO: W4 IMPFLAG: DATE: MONTH	Categ
5	R5FMO	R5FMO: W5 IMPFLAG: DATE: MONTH	Categ
6	R6FMO	R6FMO: W6 IMPFLAG: DATE: MONTH	Categ
7	R7FMO	R7FMO: W7 IMPFLAG: DATE: MONTH	Categ
8	R8FMO	R8FMO: W8 IMPFLAG: DATE: MONTH	Categ
9	R9FMO	R9FMO: W9 IMPFLAG: DATE: MONTH	Categ
10	R10FMO	R10FMO: W10 IMPFLAG: DATE: MONTH	Categ
11	R11FMO	R11FMO: W11 IMPFLAG: DATE: MONTH	Categ
12	R12FMO	R12FMO: W12 IMPFLAG: DATE: MONTH	Categ
2	S2FMO	S2FMO: W2 IMPFLAG: DATE: MONTH	Categ
3	S3FMO	S3FMO: W3 IMPFLAG: DATE: MONTH	Categ
4	S4FMO	S4FMO: W4 IMPFLAG: DATE: MONTH	Categ
5	S5FMO	S5FMO: W5 IMPFLAG: DATE: MONTH	Categ
6	S6FMO	S6FMO: W6 IMPFLAG: DATE: MONTH	Categ
7	S7FMO	S7FMO: W7 IMPFLAG: DATE: MONTH	Categ
8	S8FMO	S8FMO: W8 IMPFLAG: DATE: MONTH	Categ
9	S9FMO	S9FMO: W9 IMPFLAG: DATE: MONTH	Categ
10	S10FMO	S10FMO: W10 IMPFLAG: DATE: MONTH	Categ
11	S11FMO	S11FMO: W11 IMPFLAG: DATE: MONTH	Categ
12	S12FMO	S12FMO: W12 IMPFLAG: DATE: MONTH	Categ
2	R2DY	R2DY:W2 Cognition Date naming-Day of month	Categ
3	R3DY	R3DY:W3 Cognition Date naming-Day of month	Categ
4	R4DY	R4DY:W4 Cognition Date naming-Day of month	Categ
5	R5DY	R5DY:W5 Cognition Date naming-Day of month	Categ
6	R6DY	R6DY:W6 Cognition Date naming-Day of month	Categ
7	R7DY	R7DY:W7 Cognition Date naming-Day of month	Categ
8	R8DY	R8DY:W8 Cognition Date naming-Day of month	Categ
9	R9DY	R9DY:W9 Cognition Date naming-Day of month	Categ
10	R10DY	R10DY:W10 Cognition Date naming-Day of month	Categ
11	R11DY	R11DY:W11 Cognition Date naming-Day of month	Categ
12	R12DY	R12DY:W12 Cognition Date naming-Day of month	Categ
2	S2DY	S2DY:W2 Cognition Date naming-Day of month	Categ
3	S3DY	S3DY:W3 Cognition Date naming-Day of month	Categ
4	S4DY	S4DY:W4 Cognition Date naming-Day of month	Categ
5	S5DY	S5DY:W5 Cognition Date naming-Day of month	Categ
6	S6DY	S6DY:W6 Cognition Date naming-Day of month	Categ
7	S7DY	S7DY:W7 Cognition Date naming-Day of month	Categ

8	S8DY	S8DY:W8 Cognition Date naming-Day of month	Categ
9	S9DY	S9DY:W9 Cognition Date naming-Day of month	Categ
10	S10DY	S10DY:W10 Cognition Date naming-Day of month	Categ
11	S11DY	S11DY:W11 Cognition Date naming-Day of month	Categ
12	S12DY	S12DY:W12 Cognition Date naming-Day of month	Categ
2	R2FDY	R2FDY: W2 IMPFLAG: DATE: DAY OF MONTH	Categ
3	R3FDY	R3FDY: W3 IMPFLAG: DATE: DAY OF MONTH	Categ
4	R4FDY	R4FDY: W4 IMPFLAG: DATE: DAY OF MONTH	Categ
5	R5FDY	R5FDY: W5 IMPFLAG: DATE: DAY OF MONTH	Categ
6	R6FDY	R6FDY: W6 IMPFLAG: DATE: DAY OF MONTH	Categ
7	R7FDY	R7FDY: W7 IMPFLAG: DATE: DAY OF MONTH	Categ
8	R8FDY	R8FDY: W8 IMPFLAG: DATE: DAY OF MONTH	Categ
9	R9FDY	R9FDY: W9 IMPFLAG: DATE: DAY OF MONTH	Categ
10	R10FDY	R10FDY: W10 IMPFLAG: DATE: DAY OF MONTH	Categ
11	R11FDY	R11FDY: W11 IMPFLAG: DATE: DAY OF MONTH	Categ
12	R12FDY	R12FDY: W12 IMPFLAG: DATE: DAY OF MONTH	Categ
2	S2FDY	S2FDY: W2 IMPFLAG: DATE: DAY OF MONTH	Categ
3	S3FDY	S3FDY: W3 IMPFLAG: DATE: DAY OF MONTH	Categ
4	S4FDY	S4FDY: W4 IMPFLAG: DATE: DAY OF MONTH	Categ
5	S5FDY	S5FDY: W5 IMPFLAG: DATE: DAY OF MONTH	Categ
6	S6FDY	S6FDY: W6 IMPFLAG: DATE: DAY OF MONTH	Categ
7	S7FDY	S7FDY: W7 IMPFLAG: DATE: DAY OF MONTH	Categ
8	S8FDY	S8FDY: W8 IMPFLAG: DATE: DAY OF MONTH	Categ
9	S9FDY	S9FDY: W9 IMPFLAG: DATE: DAY OF MONTH	Categ
10	S10FDY	S10FDY: W10 IMPFLAG: DATE: DAY OF MONTH	Categ
11	S11FDY	S11FDY: W11 IMPFLAG: DATE: DAY OF MONTH	Categ
12	S12FDY	S12FDY: W12 IMPFLAG: DATE: DAY OF MONTH	Categ
2	R2YR	R2YR:W2 Cognition Date naming-Year	Categ
3	R3YR	R3YR:W3 Cognition Date naming-Year	Categ
4	R4YR	R4YR:W4 Cognition Date naming-Year	Categ
5	R5YR	R5YR:W5 Cognition Date naming-Year	Categ
6	R6YR	R6YR:W6 Cognition Date naming-Year	Categ
7	R7YR	R7YR:W7 Cognition Date naming-Year	Categ
8	R8YR	R8YR:W8 Cognition Date naming-Year	Categ
9	R9YR	R9YR:W9 Cognition Date naming-Year	Categ
10	R10YR	R10YR:W10 Cognition Date naming-Year	Categ
11	R11YR	R11YR:W11 Cognition Date naming-Year	Categ
12	R12YR	R12YR:W12 Cognition Date naming-Year	Categ
2	S2YR	S2YR:W2 Cognition Date naming-Year	Categ
3	S3YR	S3YR:W3 Cognition Date naming-Year	Categ
4	S4YR	S4YR:W4 Cognition Date naming-Year	Categ
5	S5YR	S5YR:W5 Cognition Date naming-Year	Categ
6	S6YR	S6YR:W6 Cognition Date naming-Year	Categ
7	S7YR	S7YR:W7 Cognition Date naming-Year	Categ
8	S8YR	S8YR:W8 Cognition Date naming-Year	Categ
9	S9YR	S9YR:W9 Cognition Date naming-Year	Categ
10	S10YR	S10YR:W10 Cognition Date naming-Year	Categ
11	S11YR	S11YR:W11 Cognition Date naming-Year	Categ
12	S12YR	S12YR:W12 Cognition Date naming-Year	Categ
2	R2FYR	R2FYR: W2 IMPFLAG: DATE: YEAR	Categ
3	R3FYR	R3FYR: W3 IMPFLAG: DATE: YEAR	Categ
4	R4FYR	R4FYR: W4 IMPFLAG: DATE: YEAR	Categ
5	R5FYR	R5FYR: W5 IMPFLAG: DATE: YEAR	Categ
6	R6FYR	R6FYR: W6 IMPFLAG: DATE: YEAR	Categ
7	R7FYR	R7FYR: W7 IMPFLAG: DATE: YEAR	Categ
8	R8FYR	R8FYR: W8 IMPFLAG: DATE: YEAR	Categ
9	R9FYR	R9FYR: W9 IMPFLAG: DATE: YEAR	Categ
10	R10FYR	R10FYR: W10 IMPFLAG: DATE: YEAR	Categ
11	R11FYR	R11FYR: W11 IMPFLAG: DATE: YEAR	Categ
12	R12FYR	R11FYR: W12 IMPFLAG: DATE: YEAR	Categ
2	S2FYR	S2FYR: W2 IMPFLAG: DATE: YEAR	Categ
3	S3FYR	S3FYR: W3 IMPFLAG: DATE: YEAR	Categ
4	S4FYR	S4FYR: W4 IMPFLAG: DATE: YEAR	Categ
5	S5FYR	S5FYR: W5 IMPFLAG: DATE: YEAR	Categ
6	S6FYR	S6FYR: W6 IMPFLAG: DATE: YEAR	Categ
7	S7FYR	S7FYR: W7 IMPFLAG: DATE: YEAR	Categ



8	S8FYR	S8FYR: W8 IMPFLAG: DATE: YEAR	Categ
9	S9FYR	S9FYR: W9 IMPFLAG: DATE: YEAR	Categ
10	S10FYR	S10FYR: W10 IMPFLAG: DATE: YEAR	Categ
11	S11FYR	S11FYR: W11 IMPFLAG: DATE: YEAR	Categ
12	S12FYR	S11FYR: W12 IMPFLAG: DATE: YEAR	Categ
2	R2DW	R2DW:W2 Cognition Date naming-Day of week	Categ
3	R3DW	R3DW:W3 Cognition Date naming-Day of week	Categ
4	R4DW	R4DW:W4 Cognition Date naming-Day of week	Categ
5	R5DW	R5DW:W5 Cognition Date naming-Day of week	Categ
6	R6DW	R6DW:W6 Cognition Date naming-Day of week	Categ
7	R7DW	R7DW:W7 Cognition Date naming-Day of week	Categ
8	R8DW	R8DW:W8 Cognition Date naming-Day of week	Categ
9	R9DW	R9DW:W9 Cognition Date naming-Day of week	Categ
10	R10DW	R10DW:W10 Cognition Date naming-Day of week	Categ
11	R11DW	R11DW:W11 Cognition Date naming-Day of week	Categ
12	R12DW	R12DW:W12 Cognition Date naming-Day of week	Categ
2	S2DW	S2DW:W2 Cognition Date naming-Day of week	Categ
3	S3DW	S3DW:W3 Cognition Date naming-Day of week	Categ
4	S4DW	S4DW:W4 Cognition Date naming-Day of week	Categ
5	S5DW	S5DW:W5 Cognition Date naming-Day of week	Categ
6	S6DW	S6DW:W6 Cognition Date naming-Day of week	Categ
7	S7DW	S7DW:W7 Cognition Date naming-Day of week	Categ
8	S8DW	S8DW:W8 Cognition Date naming-Day of week	Categ
9	S9DW	S9DW:W9 Cognition Date naming-Day of week	Categ
10	S10DW	S10DW:W10 Cognition Date naming-Day of week	Categ
11	S11DW	S11DW:W11 Cognition Date naming-Day of week	Categ
12	S12DW	S12DW:W12 Cognition Date naming-Day of week	Categ
2	R2FDW	R2FDW: W2 IMPFLAG: DATE: DAY OF WEEK	Categ
3	R3FDW	R3FDW: W3 IMPFLAG: DATE: DAY OF WEEK	Categ
4	R4FDW	R4FDW: W4 IMPFLAG: DATE: DAY OF WEEK	Categ
5	R5FDW	R5FDW: W5 IMPFLAG: DATE: DAY OF WEEK	Categ
6	R6FDW	R6FDW: W6 IMPFLAG: DATE: DAY OF WEEK	Categ
7	R7FDW	R7FDW: W7 IMPFLAG: DATE: DAY OF WEEK	Categ
8	R8FDW	R8FDW: W8 IMPFLAG: DATE: DAY OF WEEK	Categ
9	R9FDW	R9FDW: W9 IMPFLAG: DATE: DAY OF WEEK	Categ
10	R10FDW	R10FDW: W10 IMPFLAG: DATE: DAY OF WEEK	Categ
11	R11FDW	R11FDW: W11 IMPFLAG: DATE: DAY OF WEEK	Categ
12	R12FDW	R12FDW: W12 IMPFLAG: DATE: DAY OF WEEK	Categ
2	S2FDW	S2FDW: W2 IMPFLAG: DATE: DAY OF WEEK	Categ
3	S3FDW	S3FDW: W3 IMPFLAG: DATE: DAY OF WEEK	Categ
4	S4FDW	S4FDW: W4 IMPFLAG: DATE: DAY OF WEEK	Categ
5	S5FDW	S5FDW: W5 IMPFLAG: DATE: DAY OF WEEK	Categ
6	S6FDW	S6FDW: W6 IMPFLAG: DATE: DAY OF WEEK	Categ
7	S7FDW	S7FDW: W7 IMPFLAG: DATE: DAY OF WEEK	Categ
8	S8FDW	S8FDW: W8 IMPFLAG: DATE: DAY OF WEEK	Categ
9	S9FDW	S9FDW: W9 IMPFLAG: DATE: DAY OF WEEK	Categ
10	S10FDW	S10FDW: W10 IMPFLAG: DATE: DAY OF WEEK	Categ
11	S11FDW	S11FDW: W11 IMPFLAG: DATE: DAY OF WEEK	Categ
12	S12FDW	S12FDW: W12 IMPFLAG: DATE: DAY OF WEEK	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2MO	7382	0.95	0.21	0.0	1.0
R3MO	16351	0.97	0.16	0.0	1.0
R4MO	12330	0.97	0.16	0.0	1.0
R5MO	9504	0.97	0.17	0.0	1.0
R6MO	9611	0.96	0.19	0.0	1.0
R7MO	13083	0.97	0.18	0.0	1.0
R8MO	10517	0.96	0.21	0.0	1.0
R9MO	10518	0.96	0.20	0.0	1.0

R10MO	16031	0.97	0.18	0.0	1.0
R11MO	10250	0.95	0.22	0.0	1.0
R12MO	9692	0.95	0.22	0.0	1.0
S2MO	3866	0.96	0.19	0.0	1.0
S3MO	10804	0.98	0.15	0.0	1.0
S4MO	7481	0.98	0.15	0.0	1.0
S5MO	5425	0.97	0.16	0.0	1.0
S6MO	5499	0.97	0.17	0.0	1.0
S7MO	7935	0.97	0.16	0.0	1.0
S8MO	6071	0.96	0.19	0.0	1.0
S9MO	6039	0.96	0.19	0.0	1.0
S10MO	9477	0.97	0.17	0.0	1.0
S11MO	5923	0.96	0.20	0.0	1.0
S12MO	5348	0.96	0.20	0.0	1.0
R2FMO	7382	0.00	0.06	0.0	1.0
R3FMO	16351	0.00	0.03	0.0	1.0
R4FMO	19341	0.73	0.96	0.0	2.0
R5FMO	17517	0.92	1.00	0.0	2.0
R6FMO	16129	0.81	0.98	0.0	2.0
R7FMO	18327	0.57	0.90	0.0	2.0
R8FMO	17209	0.78	0.97	0.0	2.0
R9FMO	16077	0.69	0.95	0.0	2.0
R10FMO	20652	0.45	0.83	0.0	2.0
R11FMO	19407	0.94	1.00	0.0	2.0
R12FMO	17698	0.91	1.00	0.0	2.0
S2FMO	3866	0.00	0.06	0.0	1.0
S3FMO	10804	0.00	0.03	0.0	1.0
S4FMO	12571	0.81	0.98	0.0	2.0
S5FMO	11320	1.04	1.00	0.0	2.0
S6FMO	10280	0.93	1.00	0.0	2.0
S7FMO	11769	0.65	0.94	0.0	2.0
S8FMO	10943	0.89	0.99	0.0	2.0
S9FMO	9989	0.79	0.98	0.0	2.0
S10FMO	12696	0.51	0.87	0.0	2.0
S11FMO	11838	1.00	1.00	0.0	2.0
S12FMO	10438	0.98	1.00	0.0	2.0
R2DY	7382	0.79	0.41	0.0	1.0
R3DY	16351	0.83	0.37	0.0	1.0
R4DY	12330	0.83	0.38	0.0	1.0
R5DY	9504	0.82	0.38	0.0	1.0
R6DY	9611	0.83	0.37	0.0	1.0
R7DY	13083	0.83	0.38	0.0	1.0
R8DY	10517	0.80	0.40	0.0	1.0
R9DY	10518	0.81	0.39	0.0	1.0
R10DY	16031	0.81	0.39	0.0	1.0
R11DY	10250	0.78	0.42	0.0	1.0
R12DY	9692	0.78	0.41	0.0	1.0
S2DY	3866	0.82	0.39	0.0	1.0
S3DY	10804	0.85	0.36	0.0	1.0
S4DY	7481	0.84	0.37	0.0	1.0
S5DY	5425	0.84	0.37	0.0	1.0
S6DY	5499	0.85	0.36	0.0	1.0
S7DY	7935	0.84	0.36	0.0	1.0
S8DY	6071	0.81	0.39	0.0	1.0

S9DY	6039	0.82	0.38	0.0	1.0
S10DY	9477	0.82	0.38	0.0	1.0
S11DY	5923	0.79	0.41	0.0	1.0
S12DY	5348	0.79	0.41	0.0	1.0
R2FDY	7382	0.00	0.06	0.0	1.0
R3FDY	16351	0.00	0.02	0.0	1.0
R4FDY	19341	0.73	0.96	0.0	2.0
R5FDY	17517	0.92	1.00	0.0	2.0
R6FDY	16129	0.81	0.98	0.0	2.0
R7FDY	18327	0.57	0.90	0.0	2.0
R8FDY	17209	0.78	0.97	0.0	2.0
R9FDY	16077	0.69	0.95	0.0	2.0
R10FDY	20652	0.45	0.83	0.0	2.0
R11FDY	19407	0.94	1.00	0.0	2.0
R12FDY	17698	0.91	1.00	0.0	2.0
S2FDY	3866	0.00	0.05	0.0	1.0
S3FDY	10804	0.00	0.02	0.0	1.0
S4FDY	12571	0.81	0.98	0.0	2.0
S5FDY	11320	1.04	1.00	0.0	2.0
S6FDY	10280	0.93	1.00	0.0	2.0
S7FDY	11769	0.65	0.94	0.0	2.0
S8FDY	10943	0.89	0.99	0.0	2.0
S9FDY	9989	0.79	0.98	0.0	2.0
S10FDY	12696	0.51	0.87	0.0	2.0
S11FDY	11838	1.00	1.00	0.0	2.0
S12FDY	10438	0.98	1.00	0.0	2.0
R2YR	7382	0.95	0.22	0.0	1.0
R3YR	16351	0.98	0.16	0.0	1.0
R4YR	12330	0.97	0.18	0.0	1.0
R5YR	9504	0.98	0.15	0.0	1.0
R6YR	9611	0.96	0.21	0.0	1.0
R7YR	13083	0.97	0.18	0.0	1.0
R8YR	10517	0.96	0.20	0.0	1.0
R9YR	10518	0.96	0.20	0.0	1.0
R10YR	16031	0.97	0.18	0.0	1.0
R11YR	10250	0.95	0.22	0.0	1.0
R12YR	9692	0.94	0.23	0.0	1.0
S2YR	3866	0.96	0.19	0.0	1.0
S3YR	10804	0.98	0.13	0.0	1.0
S4YR	7481	0.97	0.16	0.0	1.0
S5YR	5425	0.98	0.13	0.0	1.0
S6YR	5499	0.97	0.18	0.0	1.0
S7YR	7935	0.98	0.15	0.0	1.0
S8YR	6071	0.97	0.17	0.0	1.0
S9YR	6039	0.97	0.17	0.0	1.0
S10YR	9477	0.97	0.16	0.0	1.0
S11YR	5923	0.96	0.20	0.0	1.0
S12YR	5348	0.95	0.21	0.0	1.0
R2FYR	7382	0.00	0.05	0.0	1.0
R3FYR	16351	0.00	0.03	0.0	1.0
R4FYR	19341	0.73	0.96	0.0	2.0
R5FYR	17517	0.92	1.00	0.0	2.0
R6FYR	16129	0.81	0.98	0.0	2.0
R7FYR	18327	0.57	0.90	0.0	2.0

R8FYR	17209	0.78	0.97	0.0	2.0
R9FYR	16077	0.69	0.95	0.0	2.0
R10FYR	20652	0.45	0.83	0.0	2.0
R11FYR	19407	0.94	1.00	0.0	2.0
R12FYR	17698	0.91	1.00	0.0	2.0
S2FYR	3866	0.00	0.05	0.0	1.0
S3FYR	10804	0.00	0.02	0.0	1.0
S4FYR	12571	0.81	0.98	0.0	2.0
S5FYR	11320	1.04	1.00	0.0	2.0
S6FYR	10280	0.93	1.00	0.0	2.0
S7FYR	11769	0.65	0.94	0.0	2.0
S8FYR	10943	0.89	0.99	0.0	2.0
S9FYR	9989	0.79	0.98	0.0	2.0
S10FYR	12696	0.51	0.87	0.0	2.0
S11FYR	11838	1.00	1.00	0.0	2.0
S12FYR	10438	0.98	1.00	0.0	2.0
R2DW	7382	0.96	0.20	0.0	1.0
R3DW	16351	0.98	0.15	0.0	1.0
R4DW	12330	0.97	0.17	0.0	1.0
R5DW	9504	0.97	0.18	0.0	1.0
R6DW	9611	0.96	0.21	0.0	1.0
R7DW	13083	0.96	0.20	0.0	1.0
R8DW	10517	0.95	0.21	0.0	1.0
R9DW	10518	0.96	0.21	0.0	1.0
R10DW	16031	0.96	0.19	0.0	1.0
R11DW	10250	0.95	0.22	0.0	1.0
R12DW	9692	0.95	0.22	0.0	1.0
S2DW	3866	0.97	0.17	0.0	1.0
S3DW	10804	0.98	0.14	0.0	1.0
S4DW	7481	0.97	0.16	0.0	1.0
S5DW	5425	0.97	0.16	0.0	1.0
S6DW	5499	0.96	0.19	0.0	1.0
S7DW	7935	0.97	0.18	0.0	1.0
S8DW	6071	0.96	0.19	0.0	1.0
S9DW	6039	0.96	0.18	0.0	1.0
S10DW	9477	0.97	0.17	0.0	1.0
S11DW	5923	0.96	0.20	0.0	1.0
S12DW	5348	0.96	0.21	0.0	1.0
R2FDW	7382	0.00	0.05	0.0	1.0
R3FDW	16351	0.00	0.02	0.0	1.0
R4FDW	19341	0.73	0.96	0.0	2.0
R5FDW	17517	0.92	1.00	0.0	2.0
R6FDW	16129	0.81	0.98	0.0	2.0
R7FDW	18327	0.57	0.90	0.0	2.0
R8FDW	17209	0.78	0.97	0.0	2.0
R9FDW	16077	0.69	0.95	0.0	2.0
R10FDW	20652	0.45	0.83	0.0	2.0
R11FDW	19407	0.94	1.00	0.0	2.0
R12FDW	17698	0.91	1.00	0.0	2.0
S2FDW	3866	0.00	0.05	0.0	1.0
S3FDW	10804	0.00	0.02	0.0	1.0
S4FDW	12571	0.81	0.98	0.0	2.0
S5FDW	11320	1.04	1.00	0.0	2.0
S6FDW	10280	0.93	1.00	0.0	2.0

S7FDW	11769	0.65	0.94	0.0	2.0
S8FDW	10943	0.89	0.99	0.0	2.0
S9FDW	9989	0.79	0.98	0.0	2.0
S10FDW	12696	0.51	0.87	0.0	2.0
S11FDW	11838	1.00	1.00	0.0	2.0
S12FDW	10438	0.98	1.00	0.0	2.0

## Categorical Variable Codes

Value	R2MO	R3MO	R4MO	R5MO	R6MO	R7MO
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	337	419	339	286	348	450
1.Correct	7045	15932	11991	9218	9263	12633

Value	R8MO	R9MO	R10MO	R11MO	R12MO
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	467	447	558	506	493
1.Correct	10050	10071	15473	9744	9199

Value	S2MO	S3MO	S4MO	S5MO	S6MO	S7MO
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	141	259	168	149	158	217
1.Correct	3725	10545	7313	5276	5341	7718

Value	S8MO	S9MO	S10MO	S11MO	S12MO
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	227	226	284	249	230
1.Correct	5844	5813	9193	5674	5118

Value	R2FMO	R3FMO	R4FMO	R5FMO	R6FMO	R7FMO
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7357	16331	12308	9486	9600	13063
1.Imputed	25	20	22	18	11	20
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FMO	R9FMO	R10FMO	R11FMO	R12FMO
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10489	10500	16022	10235	9683
1.Imputed	28	18	9	15	9
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FMO	S3FMO	S4FMO	S5FMO	S6FMO	S7FMO
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3854	10794	7467	5419	5492	7926
1.Imputed	12	10	14	6	7	9
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FMO	S9FMO	S10FMO	S11FMO	S12FMO
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6054	6028	9472	5912	5344
1.Imputed	17	11	5	11	4
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

Value	R2DY	R3DY	R4DY	R5DY	R6DY	R7DY
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	1539	2699	2141	1701	1591	2284
1.Correct	5843	13652	10189	7803	8020	10799

Value	R8DY	R9DY	R10DY	R11DY	R12DY
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	2090	2027	3000	2292	2109
1.Correct	8427	8491	13031	7958	7583

Value	S2DY	S3DY	S4DY	S5DY	S6DY	S7DY
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	703	1655	1194	880	815	1247
1.Correct	3163	9149	6287	4545	4684	6688

Value	S8DY	S9DY	S10DY	S11DY	S12DY
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	1131	1072	1675	1255	1131
1.Correct	4940	4967	7802	4668	4217

Value	R2FDY	R3FDY	R4FDY	R5FDY	R6FDY	R7FDY
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7359	16341	12316	9496	9600	13062
1.Imputed	23	10	14	8	11	21
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FDY	R9FDY	R10FDY	R11FDY	R12FDY
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10488	10500	16021	10234	9683
1.Imputed	29	18	10	16	9
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FDY	S3FDY	S4FDY	S5FDY	S6FDY	S7FDY
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3856	10799	7473	5420	5492	7925
1.Imputed	10	5	8	5	7	10
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FDY	S9FDY	S10FDY	S11FDY	S12FDY
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6054	6029	9470	5911	5345
1.Imputed	17	10	7	12	3
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

Value	R2YR	R3YR	R4YR	R5YR	R6YR	R7YR
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	363	404	426	226	425	428
1.Correct	7019	15947	11904	9278	9186	12655

Value	R8YR	R9YR	R10YR	R11YR	R12YR
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	457	450	529	538	536
1.Correct	10060	10068	15502	9712	9156

Value	S2YR	S3YR	S4YR	S5YR	S6YR	S7YR
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	138	198	201	98	177	180
1.Correct	3728	10606	7280	5327	5322	7755

Value	S8YR	S9YR	S10YR	S11YR	S12YR
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	191	175	254	251	242
1.Correct	5880	5864	9223	5672	5106

Value	R2FYR	R3FYR	R4FYR	R5FYR	R6FYR	R7FYR
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7364	16340	12314	9493	9600	13062
1.Imputed	18	11	16	11	11	21
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FYR	R9FYR	R10FYR	R11FYR	R12FYR
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10487	10501	16023	10235	9683
1.Imputed	30	17	8	15	9
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006



Value	S2FYR	S3FYR	S4FYR	S5FYR	S6FYR	S7FYR
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3858	10799	7471	5420	5492	7925
1.Imputed	8	5	10	5	7	10
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FYR	S9FYR	S10FYR	S11FYR	S12FYR
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6055	6028	9472	5912	5345
1.Imputed	16	11	5	11	3
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

Value	R2DW	R3DW	R4DW	R5DW	R6DW	R7DW
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	294	388	376	307	431	539
1.Correct	7088	15963	11954	9197	9180	12544

Value	R8DW	R9DW	R10DW	R11DW	R12DW
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	482	467	591	507	502
1.Correct	10035	10051	15440	9743	9190

Value	S2DW	S3DW	S4DW	S5DW	S6DW	S7DW
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	122	212	190	149	202	263
1.Correct	3744	10592	7291	5276	5297	7672

Value	S8DW	S9DW	S10DW	S11DW	S12DW
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	235	213	287	248	239
1.Correct	5836	5826	9190	5675	5109

Value	R2FDW	R3FDW	R4FDW	R5FDW	R6FDW	R7FDW
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7367	16341	12315	9494	9600	13063
1.Imputed	15	10	15	10	11	20
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FDW	R9FDW	R10FDW	R11FDW	R12FDW
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10489	10501	16020	10235	9683
1.Imputed	28	17	11	15	9
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FDW	S3FDW	S4FDW	S5FDW	S6FDW	S7FDW
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3858	10799	7472	5420	5492	7926
1.Imputed	8	5	9	5	7	9
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FDW	S9FDW	S10FDW	S11FDW	S12FDW
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6055	6028	9470	5912	5345
1.Imputed	16	11	7	11	3
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

## Format Reference Tables – complete variable value labels

Variables: CACT, DW, DY, MO, PRES, SCIS, VP, YR	Variables: FBWC20, FBWC86, FCACT, FDLRC, FDW, FDY, FIMRC, FMO, FPRES, FPSTME, FSCIS, FSER7, FSLFME, FVOCAB, FVP, FYR
.C=HRS-AHD overlap	.C=HRS-AHD overlap
.M=Oth missing	.M=Oth missing
.N=Cog not asked (re-IW/ lt 65)	.N=Cog not asked (re-IW/ lt 65)
.Q=Not asked this cohort or wv	.Q=Not asked this cohort or wv
.S=Proxy IW	.S=Proxy IW
.U=Unmarried	.U=Unmarried
.V=Spouse NR	.V=Spouse NR
.X=NR or Proxy all IW	.X=NR or Proxy all IW
0.Incorrect	0.Not imputed
1.Correct	1.Imputed
	2.NA-Not 65+, new IW, or alt wv

### How Constructed

RwDY, RwMO, RwYR, and RwDW indicate whether the Respondent was able to report today's date correctly, including the day of month, month, year, and day of week, respectively.

Each of these variables is coded "1" for a correct answer and "0" for an incorrect answer. From Wave 4 forward the question is only asked of new interviewees and re-interviewees who are 65 or older. If the question was skipped because the Respondent is younger than 65, then special missing value .N is assigned.

RwFDY, RwFMO, RwFYR, and RwFDW indicate whether the values were imputed (=1) or not (=0). They have a value of "2" if the question was skipped because the Respondent is a re-interviewee younger than 65.

This task was not given to anyone in Waves 1 and 2H. In Wave 2H, R2 date naming variables are set to special missing .Q to indicate that they are missing for all HRS Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The Sw date naming variables were taken from the respective Rw variables for the Wave "w" spouse.

### General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

**Cross Wave Differences in Original HRS Data**

This question was not asked in Waves 1 and 2H. From Wave 4 forward, it is only asked of new interviewees and re-interviewees who are 65 or older.

<b>Imputed Cognition: Object Naming</b>
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Wave	Variable	Label	Type
2	R2SCIS	R2SCIS: W2 SCISSORS	Categ
3	R3SCIS	R3SCIS: W3 SCISSORS	Categ
4	R4SCIS	R4SCIS: W4 SCISSORS	Categ
5	R5SCIS	R5SCIS: W5 SCISSORS	Categ
6	R6SCIS	R6SCIS: W6 SCISSORS	Categ
7	R7SCIS	R7SCIS: W7 SCISSORS	Categ
8	R8SCIS	R8SCIS: W8 SCISSORS	Categ
9	R9SCIS	R9SCIS: W9 SCISSORS	Categ
10	R10SCIS	R10SCIS: W10 SCISSORS	Categ
11	R11SCIS	R11SCIS: W11 SCISSORS	Categ
12	R12SCIS	R12SCIS: W12 SCISSORS	Categ
2	S2SCIS	S2SCIS: W2 SCISSORS	Categ
3	S3SCIS	S3SCIS: W3 SCISSORS	Categ
4	S4SCIS	S4SCIS: W4 SCISSORS	Categ
5	S5SCIS	S5SCIS: W5 SCISSORS	Categ
6	S6SCIS	S6SCIS: W6 SCISSORS	Categ
7	S7SCIS	S7SCIS: W7 SCISSORS	Categ
8	S8SCIS	S8SCIS: W8 SCISSORS	Categ
9	S9SCIS	S9SCIS: W9 SCISSORS	Categ
10	S10SCIS	S10SCIS: W10 SCISSORS	Categ
11	S11SCIS	S11SCIS: W11 SCISSORS	Categ
12	S12SCIS	S12SCIS: W12 SCISSORS	Categ
2	R2FSCIS	R2FSCIS: W2 IMPFLAG: SCISSORS	Categ
3	R3FSCIS	R3FSCIS: W3 IMPFLAG: SCISSORS	Categ
4	R4FSCIS	R4FSCIS: W4 IMPFLAG: SCISSORS	Categ
5	R5FSCIS	R5FSCIS: W5 IMPFLAG: SCISSORS	Categ
6	R6FSCIS	R6FSCIS: W6 IMPFLAG: SCISSORS	Categ
7	R7FSCIS	R7FSCIS: W7 IMPFLAG: SCISSORS	Categ
8	R8FSCIS	R8FSCIS: W8 IMPFLAG: SCISSORS	Categ
9	R9FSCIS	R9FSCIS: W9 IMPFLAG: SCISSORS	Categ
10	R10FSCIS	R10FSCIS: W10 IMPFLAG: SCISSORS	Categ
11	R11FSCIS	R11FSCIS: W11 IMPFLAG: SCISSORS	Categ
12	R12FSCIS	R12FSCIS: W12 IMPFLAG: SCISSORS	Categ
2	S2FSCIS	S2FSCIS: W2 IMPFLAG: SCISSORS	Categ
3	S3FSCIS	S3FSCIS: W3 IMPFLAG: SCISSORS	Categ
4	S4FSCIS	S4FSCIS: W4 IMPFLAG: SCISSORS	Categ
5	S5FSCIS	S5FSCIS: W5 IMPFLAG: SCISSORS	Categ
6	S6FSCIS	S6FSCIS: W6 IMPFLAG: SCISSORS	Categ
7	S7FSCIS	S7FSCIS: W7 IMPFLAG: SCISSORS	Categ
8	S8FSCIS	S8FSCIS: W8 IMPFLAG: SCISSORS	Categ
9	S9FSCIS	S9FSCIS: W9 IMPFLAG: SCISSORS	Categ
10	S10FSCIS	S10FSCIS: W10 IMPFLAG: SCISSORS	Categ
11	S11FSCIS	S11FSCIS: W11 IMPFLAG: SCISSORS	Categ
12	S12FSCIS	S12FSCIS: W12 IMPFLAG: SCISSORS	Categ
2	R2CACT	R2CACT: W2 CACTUS	Categ
3	R3CACT	R3CACT: W3 CACTUS	Categ
4	R4CACT	R4CACT: W4 CACTUS	Categ
5	R5CACT	R5CACT: W5 CACTUS	Categ
6	R6CACT	R6CACT: W6 CACTUS	Categ
7	R7CACT	R7CACT: W7 CACTUS	Categ
8	R8CACT	R8CACT: W8 CACTUS	Categ
9	R9CACT	R9CACT: W9 CACTUS	Categ
10	R10CACT	R10CACT: W10 CACTUS	Categ
11	R11CACT	R11CACT: W11 CACTUS	Categ
12	R12CACT	R12CACT: W12 CACTUS	Categ
2	S2CACT	S2CACT: W2 CACTUS	Categ
3	S3CACT	S3CACT: W3 CACTUS	Categ
4	S4CACT	S4CACT: W4 CACTUS	Categ
5	S5CACT	S5CACT: W5 CACTUS	Categ
6	S6CACT	S6CACT: W6 CACTUS	Categ
7	S7CACT	S7CACT: W7 CACTUS	Categ

8	S8CACT	S8CACT: W8 CACTUS	Categ
9	S9CACT	S9CACT: W9 CACTUS	Categ
10	S10CACT	S10CACT: W10 CACTUS	Categ
11	S11CACT	S11CACT: W11 CACTUS	Categ
12	S12CACT	S12CACT: W12 CACTUS	Categ
2	R2FCACT	R2FCACT: W2 IMPFLAG: CACTUS	Categ
3	R3FCACT	R3FCACT: W3 IMPFLAG: CACTUS	Categ
4	R4FCACT	R4FCACT: W4 IMPFLAG: CACTUS	Categ
5	R5FCACT	R5FCACT: W5 IMPFLAG: CACTUS	Categ
6	R6FCACT	R6FCACT: W6 IMPFLAG: CACTUS	Categ
7	R7FCACT	R7FCACT: W7 IMPFLAG: CACTUS	Categ
8	R8FCACT	R8FCACT: W8 IMPFLAG: CACTUS	Categ
9	R9FCACT	R9FCACT: W9 IMPFLAG: CACTUS	Categ
10	R10FCACT	R10FCACT: W10 IMPFLAG: CACTUS	Categ
11	R11FCACT	R11FCACT: W11 IMPFLAG: CACTUS	Categ
12	R12FCACT	R12FCACT: W12 IMPFLAG: CACTUS	Categ
2	S2FCACT	S2FCACT: W2 IMPFLAG: CACTUS	Categ
3	S3FCACT	S3FCACT: W3 IMPFLAG: CACTUS	Categ
4	S4FCACT	S4FCACT: W4 IMPFLAG: CACTUS	Categ
5	S5FCACT	S5FCACT: W5 IMPFLAG: CACTUS	Categ
6	S6FCACT	S6FCACT: W6 IMPFLAG: CACTUS	Categ
7	S7FCACT	S7FCACT: W7 IMPFLAG: CACTUS	Categ
8	S8FCACT	S8FCACT: W8 IMPFLAG: CACTUS	Categ
9	S9FCACT	S9FCACT: W9 IMPFLAG: CACTUS	Categ
10	S10FCACT	S10FCACT: W10 IMPFLAG: CACTUS	Categ
11	S11FCACT	S11FCACT: W11 IMPFLAG: CACTUS	Categ
12	S12FCACT	S12FCACT: W12 IMPFLAG: CACTUS	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SCIS	7382	0.99	0.11	0.0	1.0
R3SCIS	16351	0.99	0.11	0.0	1.0
R4SCIS	12330	0.99	0.10	0.0	1.0
R5SCIS	9504	0.99	0.09	0.0	1.0
R6SCIS	9611	0.99	0.10	0.0	1.0
R7SCIS	13083	0.99	0.10	0.0	1.0
R8SCIS	10517	0.99	0.11	0.0	1.0
R9SCIS	10518	0.99	0.11	0.0	1.0
R10SCIS	16031	0.98	0.12	0.0	1.0
R11SCIS	10250	0.98	0.12	0.0	1.0
R12SCIS	9692	0.98	0.13	0.0	1.0
S2SCIS	3866	0.99	0.09	0.0	1.0
S3SCIS	10804	0.99	0.10	0.0	1.0
S4SCIS	7481	0.99	0.09	0.0	1.0
S5SCIS	5425	0.99	0.09	0.0	1.0
S6SCIS	5499	0.99	0.10	0.0	1.0
S7SCIS	7935	0.99	0.09	0.0	1.0
S8SCIS	6071	0.99	0.10	0.0	1.0
S9SCIS	6039	0.99	0.11	0.0	1.0
S10SCIS	9477	0.99	0.12	0.0	1.0
S11SCIS	5923	0.99	0.12	0.0	1.0
S12SCIS	5348	0.98	0.13	0.0	1.0
R2FSCIS	7382	0.00	0.06	0.0	1.0
R3FSCIS	16351	0.00	0.04	0.0	1.0
R4FSCIS	19341	0.73	0.96	0.0	2.0
R5FSCIS	17517	0.92	1.00	0.0	2.0

R6FSCIS	16129	0.81	0.98	0.0	2.0
R7FSCIS	18327	0.57	0.90	0.0	2.0
R8FSCIS	17209	0.78	0.97	0.0	2.0
R9FSCIS	16077	0.69	0.95	0.0	2.0
R10FSCIS	20652	0.45	0.83	0.0	2.0
R11FSCIS	19407	0.94	1.00	0.0	2.0
R12FSCIS	17698	0.91	1.00	0.0	2.0
S2FSCIS	3866	0.00	0.05	0.0	1.0
S3FSCIS	10804	0.00	0.04	0.0	1.0
S4FSCIS	12571	0.81	0.98	0.0	2.0
S5FSCIS	11320	1.04	1.00	0.0	2.0
S6FSCIS	10280	0.93	1.00	0.0	2.0
S7FSCIS	11769	0.65	0.94	0.0	2.0
S8FSCIS	10943	0.89	0.99	0.0	2.0
S9FSCIS	9989	0.79	0.98	0.0	2.0
S10FSCIS	12696	0.51	0.87	0.0	2.0
S11FSCIS	11838	1.00	1.00	0.0	2.0
S12FSCIS	10438	0.98	1.00	0.0	2.0
R2CACT	7382	0.83	0.37	0.0	1.0
R3CACT	16351	0.89	0.31	0.0	1.0
R4CACT	12330	0.90	0.29	0.0	1.0
R5CACT	9504	0.90	0.30	0.0	1.0
R6CACT	9611	0.90	0.29	0.0	1.0
R7CACT	13083	0.91	0.28	0.0	1.0
R8CACT	10517	0.90	0.30	0.0	1.0
R9CACT	10518	0.90	0.29	0.0	1.0
R10CACT	16031	0.91	0.28	0.0	1.0
R11CACT	10250	0.92	0.28	0.0	1.0
R12CACT	9692	0.91	0.28	0.0	1.0
S2CACT	3866	0.88	0.32	0.0	1.0
S3CACT	10804	0.92	0.27	0.0	1.0
S4CACT	7481	0.94	0.24	0.0	1.0
S5CACT	5425	0.93	0.25	0.0	1.0
S6CACT	5499	0.93	0.25	0.0	1.0
S7CACT	7935	0.94	0.24	0.0	1.0
S8CACT	6071	0.93	0.25	0.0	1.0
S9CACT	6039	0.93	0.26	0.0	1.0
S10CACT	9477	0.93	0.25	0.0	1.0
S11CACT	5923	0.94	0.24	0.0	1.0
S12CACT	5348	0.93	0.25	0.0	1.0
R2FCACT	7382	0.00	0.06	0.0	1.0
R3FCACT	16351	0.00	0.04	0.0	1.0
R4FCACT	19341	0.73	0.96	0.0	2.0
R5FCACT	17517	0.92	1.00	0.0	2.0
R6FCACT	16129	0.81	0.98	0.0	2.0
R7FCACT	18327	0.57	0.90	0.0	2.0
R8FCACT	17209	0.78	0.97	0.0	2.0
R9FCACT	16077	0.69	0.95	0.0	2.0
R10FCACT	20652	0.45	0.83	0.0	2.0
R11FCACT	19407	0.94	1.00	0.0	2.0
R12FCACT	17698	0.91	1.00	0.0	2.0
S2FCACT	3866	0.00	0.06	0.0	1.0
S3FCACT	10804	0.00	0.04	0.0	1.0
S4FCACT	12571	0.81	0.98	0.0	2.0

S5FCACT	11320	1.04	1.00	0.0	2.0
S6FCACT	10280	0.93	1.00	0.0	2.0
S7FCACT	11769	0.65	0.94	0.0	2.0
S8FCACT	10943	0.89	0.99	0.0	2.0
S9FCACT	9989	0.79	0.98	0.0	2.0
S10FCACT	12696	0.51	0.87	0.0	2.0
S11FCACT	11838	1.00	1.00	0.0	2.0
S12FCACT	10438	0.98	1.00	0.0	2.0

## Categorical Variable Codes

Value	R2SCIS	R3SCIS	R4SCIS	R5SCIS	R6SCIS	R7SCIS
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	85	192	118	79	105	136
1.Correct	7297	16159	12212	9425	9506	12947

Value	R8SCIS	R9SCIS	R10SCIS	R11SCIS	R12SCIS
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	135	140	248	160	162
1.Correct	10382	10378	15783	10090	9530

Value	S2SCIS	S3SCIS	S4SCIS	S5SCIS	S6SCIS	S7SCIS
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	32	120	62	40	56	63
1.Correct	3834	10684	7419	5385	5443	7872

Value	S8SCIS	S9SCIS	S10SCIS	S11SCIS	S12SCIS
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	67	69	132	84	86
1.Correct	6004	5970	9345	5839	5262



Value	R2FSCIS	R3FSCIS	R4FSCIS	R5FSCIS	R6FSCIS	R7FSCIS
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7356	16319	12308	9480	9601	13067
1.Imputed	26	32	22	24	10	16
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FSCIS	R9FSCIS	R10FSCIS	R11FSCIS	R12FSCIS
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10490	10499	16023	10238	9682
1.Imputed	27	19	8	12	10
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FSCIS	S3FSCIS	S4FSCIS	S5FSCIS	S6FSCIS	S7FSCIS
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3856	10786	7467	5417	5494	7928
1.Imputed	10	18	14	8	5	7
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FSCIS	S9FSCIS	S10FSCIS	S11FSCIS	S12FSCIS
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6057	6027	9472	5914	5345
1.Imputed	14	12	5	9	3
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

Value	R2CACT	R3CACT	R4CACT	R5CACT	R6CACT	R7CACT
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	1238	1735	1183	945	922	1122
1Correct	6144	14616	11147	8559	8689	11961

Value	R8CACT	R9CACT	R10CACT	R11CACT	R12CACT
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	1024	1003	1370	846	832
1Correct	9493	9515	14661	9404	8860

Value	S2CACT	S3CACT	S4CACT	S5CACT	S6CACT	S7CACT
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	451	847	475	379	380	490
1.Correct	3415	9957	7006	5046	5119	7445

Value	S8CACT	S9CACT	S10CACT	S11CACT	S12CACT
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	422	432	643	362	351
1.Correct	5649	5607	8834	5561	4997

Value	R2FCACT	R3FCACT	R4FCACT	R5FCACT	R6FCACT	R7FCACT
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7351	16322	12306	9479	9599	13067
1.Imputed	31	29	24	25	12	16
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FCACT	R9FCACT	R10FCACT	R11FCACT	R12FCACT
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10490	10497	16018	10234	9679
1.Imputed	27	21	13	16	13
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FCACT	S3FCACT	S4FCACT	S5FCACT	S6FCACT	S7FCACT
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3852	10788	7466	5417	5494	7928
1.Imputed	14	16	15	8	5	7
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FCACT	S9FCACT	S10FCACT	S11FCACT	S12FCACT
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6057	6027	9469	5913	5341
1.Imputed	14	12	8	10	7
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

## Format Reference Tables – complete variable value labels

Variables: CACT, DW, DY, MO, PRES, SCIS, VP, YR	Variables: FBWC20, FBWC86, FCACT, FDLRC, FDW, FDY, FIMRC, FMO, FPRES, FPSTME, FSCIS, FSER7, FSLFME, FVOCAB, FVP, FYR
.C=HRS-AHD overlap	.C=HRS-AHD overlap
.M=Oth missing	.M=Oth missing
.N=Cog not asked (re-IW/ lt 65)	.N=Cog not asked (re-IW/ lt 65)
.Q=Not asked this cohort or wv	.Q=Not asked this cohort or wv
.S=Proxy IW	.S=Proxy IW
.U=Unmarried	.U=Unmarried
.V=Spouse NR	.V=Spouse NR
.X=NR or Proxy all IW	.X=NR or Proxy all IW
0.Incorrect	0.Not imputed
1.Correct	1.Imputed
	2.NA-Not 65+, new IW, or alt wv

### How Constructed

RwCACT and RwSCIS indicate whether the Respondent was able to correctly name these objects, cactus and scissors, respectively, based on a verbal description. For RwSCIS the description was: "What do you usually use to cut paper?" and for RwCACT it was, "What do you call the kind of prickly plant that grows in the desert?"

Each of these variables is code "1" for a correct answer and "0" for an incorrect answer. From Wave 4 forward these questions are only asked of new interviewees and re-interviewees who are 65 or older. If not asked because the Respondent is younger than 65, the Rw variables are set to special missing .N.

RwFCACT and RwFSCIS indicate whether the values were imputed (=1) or not (=0). They have a value of 2 if the question was skipped because the Respondent is a re-interviewee younger than 65.

This task was not given to anyone in Waves 1 and 2H. In Wave 2H, R2 object naming variables are set to special missing .Q to indicate that they are missing for all HRS Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The Sw object naming variables were taken from the respective Rw variables for the Wave "w" spouse.

### General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

**Cross Wave Differences in Original HRS Data**

These questions were not asked in Waves 1 and 2H. From Wave 4 forward, they are only asked of new interviewees and re-interviewees who are 65 or older.

<b>Imputed Cognition: President/Vice-President Naming</b>
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Wave	Variable	Label	Type
2	R2PRES	R2PRES: W2 PRESIDENT	Categ
3	R3PRES	R3PRES: W3 PRESIDENT	Categ
4	R4PRES	R4PRES: W4 PRESIDENT	Categ
5	R5PRES	R5PRES: W5 PRESIDENT	Categ
6	R6PRES	R6PRES: W6 PRESIDENT	Categ
7	R7PRES	R7PRES: W7 PRESIDENT	Categ
8	R8PRES	R8PRES: W8 PRESIDENT	Categ
9	R9PRES	R9PRES: W9 PRESIDENT	Categ
10	R10PRES	R10PRES: W10 PRESIDENT	Categ
11	R11PRES	R11PRES: W11 PRESIDENT	Categ
12	R12PRES	R12PRES: W12 PRESIDENT	Categ
2	S2PRES	S2PRES: W2 PRESIDENT	Categ
3	S3PRES	S3PRES: W3 PRESIDENT	Categ
4	S4PRES	S4PRES: W4 PRESIDENT	Categ
5	S5PRES	S5PRES: W5 PRESIDENT	Categ
6	S6PRES	S6PRES: W6 PRESIDENT	Categ
7	S7PRES	S7PRES: W7 PRESIDENT	Categ
8	S8PRES	S8PRES: W8 PRESIDENT	Categ
9	S9PRES	S9PRES: W9 PRESIDENT	Categ
10	S10PRES	S10PRES: W10 PRESIDENT	Categ
11	S11PRES	S11PRES: W11 PRESIDENT	Categ
12	S12PRES	S12PRES: W12 PRESIDENT	Categ
2	R2FPRES	R2FPRES: W2 IMPFLAG: PRESIDENT	Categ
3	R3FPRES	R3FPRES: W3 IMPFLAG: PRESIDENT	Categ
4	R4FPRES	R4FPRES: W4 IMPFLAG: PRESIDENT	Categ
5	R5FPRES	R5FPRES: W5 IMPFLAG: PRESIDENT	Categ
6	R6FPRES	R6FPRES: W6 IMPFLAG: PRESIDENT	Categ
7	R7FPRES	R7FPRES: W7 IMPFLAG: PRESIDENT	Categ
8	R8FPRES	R8FPRES: W8 IMPFLAG: PRESIDENT	Categ
9	R9FPRES	R9FPRES: W9 IMPFLAG: PRESIDENT	Categ
10	R10FPRES	R10FPRES: W10 IMPFLAG: PRESIDENT	Categ
11	R11FPRES	R11FPRES: W11 IMPFLAG: PRESIDENT	Categ
12	R12FPRES	R12FPRES: W12 IMPFLAG: PRESIDENT	Categ
2	S2FPRES	S2FPRES: W2 IMPFLAG: PRESIDENT	Categ
3	S3FPRES	S3FPRES: W3 IMPFLAG: PRESIDENT	Categ
4	S4FPRES	S4FPRES: W4 IMPFLAG: PRESIDENT	Categ
5	S5FPRES	S5FPRES: W5 IMPFLAG: PRESIDENT	Categ
6	S6FPRES	S6FPRES: W6 IMPFLAG: PRESIDENT	Categ
7	S7FPRES	S7FPRES: W7 IMPFLAG: PRESIDENT	Categ
8	S8FPRES	S8FPRES: W8 IMPFLAG: PRESIDENT	Categ
9	S9FPRES	S9FPRES: W9 IMPFLAG: PRESIDENT	Categ
10	S10FPRES	S10FPRES: W10 IMPFLAG: PRESIDENT	Categ
11	S11FPRES	S11FPRES: W11 IMPFLAG: PRESIDENT	Categ
12	S12FPRES	S12FPRES: W12 IMPFLAG: PRESIDENT	Categ
2	R2VP	R2VP: W2 VICE PRESIDENT	Categ
3	R3VP	R3VP: W3 VICE PRESIDENT	Categ
4	R4VP	R4VP: W4 VICE PRESIDENT	Categ
5	R5VP	R5VP: W5 VICE PRESIDENT	Categ
6	R6VP	R6VP: W6 VICE PRESIDENT	Categ
7	R7VP	R7VP: W7 VICE PRESIDENT	Categ
8	R8VP	R8VP: W8 VICE PRESIDENT	Categ
9	R9VP	R9VP: W9 VICE PRESIDENT	Categ
10	R10VP	R10VP: W10 VICE PRESIDENT	Categ
11	R11VP	R11VP: W11 VICE PRESIDENT	Categ
12	R12VP	R12VP: W12 VICE PRESIDENT	Categ
2	S2VP	S2VP: W2 VICE PRESIDENT	Categ
3	S3VP	S3VP: W3 VICE PRESIDENT	Categ
4	S4VP	S4VP: W4 VICE PRESIDENT	Categ
5	S5VP	S5VP: W5 VICE PRESIDENT	Categ
6	S6VP	S6VP: W6 VICE PRESIDENT	Categ
7	S7VP	S7VP: W7 VICE PRESIDENT	Categ

8	S8VP	S8VP: W8 VICE PRESIDENT	Categ
9	S9VP	S9VP: W9 VICE PRESIDENT	Categ
10	S10VP	S10VP: W10 VICE PRESIDENT	Categ
11	S11VP	S11VP: W11 VICE PRESIDENT	Categ
12	S12VP	S12VP: W12 VICE PRESIDENT	Categ
2	R2FVP	R2FVP: W2 IMPFLAG: VICE PRESIDENT	Categ
3	R3FVP	R3FVP: W3 IMPFLAG: VICE PRESIDENT	Categ
4	R4FVP	R4FVP: W4 IMPFLAG: VICE PRESIDENT	Categ
5	R5FVP	R5FVP: W5 IMPFLAG: VICE PRESIDENT	Categ
6	R6FVP	R6FVP: W6 IMPFLAG: VICE PRESIDENT	Categ
7	R7FVP	R7FVP: W7 IMPFLAG: VICE PRESIDENT	Categ
8	R8FVP	R8FVP: W8 IMPFLAG: VICE PRESIDENT	Categ
9	R9FVP	R9FVP: W9 IMPFLAG: VICE PRESIDENT	Categ
10	R10FVP	R10FVP: W10 IMPFLAG: VICE PRESIDENT	Categ
11	R11FVP	R11FVP: W11 IMPFLAG: VICE PRESIDENT	Categ
12	R12FVP	R12FVP: W12 IMPFLAG: VICE PRESIDENT	Categ
2	S2FVP	S2FVP: W2 IMPFLAG: VICE PRESIDENT	Categ
3	S3FVP	S3FVP: W3 IMPFLAG: VICE PRESIDENT	Categ
4	S4FVP	S4FVP: W4 IMPFLAG: VICE PRESIDENT	Categ
5	S5FVP	S5FVP: W5 IMPFLAG: VICE PRESIDENT	Categ
6	S6FVP	S6FVP: W6 IMPFLAG: VICE PRESIDENT	Categ
7	S7FVP	S7FVP: W7 IMPFLAG: VICE PRESIDENT	Categ
8	S8FVP	S8FVP: W8 IMPFLAG: VICE PRESIDENT	Categ
9	S9FVP	S9FVP: W9 IMPFLAG: VICE PRESIDENT	Categ
10	S10FVP	S10FVP: W10 IMPFLAG: VICE PRESIDENT	Categ
11	S11FVP	S11FVP: W11 IMPFLAG: VICE PRESIDENT	Categ
12	S12FVP	S12FVP: W12 IMPFLAG: VICE PRESIDENT	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2PRES	7382	0.90	0.29	0.0	1.0
R3PRES	16351	0.94	0.24	0.0	1.0
R4PRES	12330	0.96	0.20	0.0	1.0
R5PRES	9504	0.95	0.22	0.0	1.0
R6PRES	9611	0.96	0.20	0.0	1.0
R7PRES	13083	0.97	0.17	0.0	1.0
R8PRES	10517	0.97	0.18	0.0	1.0
R9PRES	10518	0.96	0.19	0.0	1.0
R10PRES	16031	0.97	0.18	0.0	1.0
R11PRES	10250	0.96	0.19	0.0	1.0
R12PRES	9692	0.96	0.19	0.0	1.0
S2PRES	3866	0.93	0.25	0.0	1.0
S3PRES	10804	0.95	0.21	0.0	1.0
S4PRES	7481	0.97	0.17	0.0	1.0
S5PRES	5425	0.97	0.18	0.0	1.0
S6PRES	5499	0.97	0.17	0.0	1.0
S7PRES	7935	0.98	0.13	0.0	1.0
S8PRES	6071	0.98	0.15	0.0	1.0
S9PRES	6039	0.98	0.15	0.0	1.0
S10PRES	9477	0.98	0.15	0.0	1.0
S11PRES	5923	0.97	0.16	0.0	1.0
S12PRES	5348	0.97	0.16	0.0	1.0
R2FPRES	7382	0.00	0.06	0.0	1.0
R3FPRES	16351	0.00	0.04	0.0	1.0
R4FPRES	19341	0.73	0.96	0.0	2.0

R5FPRES	17517	0.92	1.00	0.0	2.0
R6FPRES	16129	0.81	0.98	0.0	2.0
R7FPRES	18327	0.57	0.90	0.0	2.0
R8FPRES	17209	0.78	0.97	0.0	2.0
R9FPRES	16077	0.69	0.95	0.0	2.0
R10FPRES	20652	0.45	0.83	0.0	2.0
R11FPRES	19407	0.94	1.00	0.0	2.0
R12FPRES	17698	0.91	1.00	0.0	2.0
S2FPRES	3866	0.00	0.06	0.0	1.0
S3FPRES	10804	0.00	0.04	0.0	1.0
S4FPRES	12571	0.81	0.98	0.0	2.0
S5FPRES	11320	1.04	1.00	0.0	2.0
S6FPRES	10280	0.93	1.00	0.0	2.0
S7FPRES	11769	0.65	0.94	0.0	2.0
S8FPRES	10943	0.89	0.99	0.0	2.0
S9FPRES	9989	0.79	0.98	0.0	2.0
S10FPRES	12696	0.51	0.87	0.0	2.0
S11FPRES	11838	1.00	1.00	0.0	2.0
S12FPRES	10438	0.98	1.00	0.0	2.0
R2VP	7382	0.72	0.45	0.0	1.0
R3VP	16351	0.71	0.45	0.0	1.0
R4VP	12330	0.84	0.37	0.0	1.0
R5VP	9504	0.90	0.30	0.0	1.0
R6VP	9611	0.69	0.46	0.0	1.0
R7VP	13083	0.76	0.43	0.0	1.0
R8VP	10517	0.77	0.42	0.0	1.0
R9VP	10518	0.75	0.44	0.0	1.0
R10VP	16031	0.54	0.50	0.0	1.0
R11VP	10250	0.63	0.48	0.0	1.0
R12VP	9692	0.62	0.48	0.0	1.0
S2VP	3866	0.79	0.41	0.0	1.0
S3VP	10804	0.76	0.43	0.0	1.0
S4VP	7481	0.88	0.32	0.0	1.0
S5VP	5425	0.93	0.25	0.0	1.0
S6VP	5499	0.76	0.43	0.0	1.0
S7VP	7935	0.81	0.39	0.0	1.0
S8VP	6071	0.82	0.38	0.0	1.0
S9VP	6039	0.80	0.40	0.0	1.0
S10VP	9477	0.58	0.49	0.0	1.0
S11VP	5923	0.68	0.47	0.0	1.0
S12VP	5348	0.68	0.47	0.0	1.0
R2FVP	7382	0.01	0.09	0.0	1.0
R3FVP	16351	0.00	0.04	0.0	1.0
R4FVP	19341	0.73	0.96	0.0	2.0
R5FVP	17517	0.92	1.00	0.0	2.0
R6FVP	16129	0.81	0.98	0.0	2.0
R7FVP	18327	0.57	0.90	0.0	2.0
R8FVP	17209	0.78	0.97	0.0	2.0
R9FVP	16077	0.69	0.95	0.0	2.0
R10FVP	20652	0.45	0.83	0.0	2.0
R11FVP	19407	0.94	1.00	0.0	2.0
R12FVP	17698	0.91	0.99	0.0	2.0
S2FVP	3866	0.01	0.08	0.0	1.0
S3FVP	10804	0.00	0.04	0.0	1.0

S4FVP	12571	0.81	0.98	0.0	2.0
S5FVP	11320	1.04	1.00	0.0	2.0
S6FVP	10280	0.93	1.00	0.0	2.0
S7FVP	11769	0.65	0.94	0.0	2.0
S8FVP	10943	0.89	0.99	0.0	2.0
S9FVP	9989	0.79	0.98	0.0	2.0
S10FVP	12696	0.51	0.87	0.0	2.0
S11FVP	11838	1.00	1.00	0.0	2.0
S12FVP	10438	0.98	1.00	0.0	2.0

## Categorical Variable Codes

Value	R2PRES	R3PRES	R4PRES	R5PRES	R6PRES	R7PRES
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	706	1019	520	494	412	369
1.Correct	6676	15332	11810	9010	9199	12714

Value	R8PRES	R9PRES	R10PRES	R11PRES	R12PRES
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	362	383	549	390	371
1.Correct	10155	10135	15482	9860	9321

Value	S2PRES	S3PRES	S4PRES	S5PRES	S6PRES	S7PRES
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	255	509	217	180	155	134
1.Correct	3611	10295	7264	5245	5344	7801

Value	S8PRES	S9PRES	S10PRES	S11PRES	S12PRES
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	143	143	231	161	147
1.Correct	5928	5896	9246	5762	5201



Value	R2FPRES	R3FPRES	R4FPRES	R5FPRES	R6FPRES	R7FPRES
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7351	16324	12307	9478	9601	13066
1.Imputed	31	27	23	26	10	17
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FPRES	R9FPRES	R10FPRES	R11FPRES	R12FPRES
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10490	10498	16016	10231	9677
1.Imputed	27	20	15	19	15
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FPRES	S3FPRES	S4FPRES	S5FPRES	S6FPRES	S7FPRES
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3854	10789	7465	5414	5494	7928
1.Imputed	12	15	16	11	5	7
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FPRES	S9FPRES	S10FPRES	S11FPRES	S12FPRES
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6056	6026	9468	5910	5340
1.Imputed	15	13	9	13	8
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

Value	R2VP	R3VP	R4VP	R5VP	R6VP	R7VP
.N=Cog not asked (re-IW/ lt			7011	8013	6518	5244
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Incorrect	2093	4723	1975	951	3008	3115
1.Correct	5289	11628	10355	8553	6603	9968

Value	R8VP	R9VP	R10VP	R11VP	R12VP
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	6692	5559	4621	9157	8006
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Incorrect	2436	2672	7452	3804	3648
1.Correct	8081	7846	8579	6446	6044

Value	S2VP	S3VP	S4VP	S5VP	S6VP	S7VP
.N=Cog not asked (re-IW/ lt			5090	5895	4781	3834
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Incorrect	821	2619	891	355	1331	1470
1.Correct	3045	8185	6590	5070	4168	6465

Value	S8VP	S9VP	S10VP	S11VP	S12VP
.M=Oth missing				1	
.N=Cog not asked (re-IW/ lt	4872	3950	3219	5915	5090
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Incorrect	1094	1220	4008	1896	1694
1.Correct	4977	4819	5469	4027	3654

Value	R2FVP	R3FVP	R4FVP	R5FVP	R6FVP	R7FVP
.Q=Not asked this cohort or	11420					
.S=Proxy IW	212	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	628	547	481	353	273	256
0.Not imputed	7327	16323	12306	9479	9598	13063
1.Imputed	55	28	24	25	13	20
2.NA-Not 65+, new IW, or al			7011	8013	6518	5244

Value	R8FVP	R9FVP	R10FVP	R11FVP	R12FVP
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10490	10500	16011	10230	9669
1.Imputed	27	18	20	20	23
2.NA-Not 65+, new IW, or al	6692	5559	4621	9157	8006

Value	S2FVP	S3FVP	S4FVP	S5FVP	S6FVP	S7FVP
.Q=Not asked this cohort or	9123					
.S=Proxy IW	157	768	1086	1151	1165	1001
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
.X=NR or Proxy all IW	326	343	321	259	194	202
0.Not imputed	3840	10789	7465	5415	5494	7927
1.Imputed	26	15	16	10	5	8
2.NA-Not 65+, new IW, or al			5090	5895	4781	3834

Value	S8FVP	S9FVP	S10FVP	S11FVP	S12FVP
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6056	6028	9462	5910	5336
1.Imputed	15	11	15	13	12
2.NA-Not 65+, new IW, or al	4872	3950	3219	5915	5090

## Format Reference Tables – complete variable value labels

Variables: CACT, DW, DY, MO, PRES, SCIS, VP, YR	Variables: FBWC20, FBWC86, FCACT, FDLRC, FDW, FDY, FIMRC, FMO, FPRES, FPSTME, FSCIS, FSER7, FSLFME, FVOCAB, FVP, FYR
.C=HRS-AHD overlap	.C=HRS-AHD overlap
.M=Oth missing	.M=Oth missing
.N=Cog not asked (re-IW/ lt 65)	.N=Cog not asked (re-IW/ lt 65)
.Q=Not asked this cohort or wv	.Q=Not asked this cohort or wv
.S=Proxy IW	.S=Proxy IW
.U=Unmarried	.U=Unmarried
.V=Spouse NR	.V=Spouse NR
.X=NR or Proxy all IW	.X=NR or Proxy all IW
0.Incorrect	0.Not imputed
1.Correct	1.Imputed
	2.NA-Not 65+, new IW, or alt wv

### How Constructed

RwPRES and RwVP indicate whether the Respondent was able to correctly name the current president and vice-president of the United States, respectively.

Each of these variables is coded "1" for a correct answer and "0" for an incorrect answer. From Wave 4 forward, the question is only asked of new interviewees and re-interviewees who are 65 or older. If the question was skipped because the Respondent is younger than 65, then special missing value .N is assigned.

RwFPRES and RwFVP indicate whether the values were imputed (=1) or not (=0). They have a value of "2" if the question was skipped because the Respondent is a re-interviewee younger than 65. In Wave 5, the rate of correct answers increased, perhaps because Wave 5 (2000) was an election year, and the incumbent vice president was running for president.

This task was not given to anyone in Waves 1 and 2H. In Wave 2H, R2PRES, R2VP, R2FPRES, and R2FVP are set to special missing .Q to indicate that they are missing for all HRS Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

SwPRES, SwFPRES, SwVP, and SwFVP were taken from the respective Rw variables for the Wave "w" spouse.

### General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

**Cross Wave Differences in Original HRS Data**

These questions were not asked in Waves 1 and 2H. From Wave 4 forward, they are only asked of new interviewees and re-interviewees who are 65 or older.

### Imputed Cognition: Vocabulary

Wave	Variable	Label	Type
3	R3VOCAB	R3VOCAB: W3 VOCAB SUM SCORE	Categ
4	R4VOCAB	R4VOCAB: W4 VOCAB SUM SCORE	Categ
5	R5VOCAB	R5VOCAB: W5 VOCAB SUM SCORE	Categ
6	R6VOCAB	R6VOCAB: W6 VOCAB SUM SCORE	Categ
7	R7VOCAB	R7VOCAB: W7 VOCAB SUM SCORE	Categ
8	R8VOCAB	R8VOCAB: W8 VOCAB SUM SCORE	Categ
9	R9VOCAB	R9VOCAB: W9 VOCAB SUM SCORE	Categ
10	R10VOCAB	R10VOCAB: W10 VOCAB SUM SCORE	Categ
11	R11VOCAB	R11VOCAB: W11 VOCAB SUM SCORE	Categ
12	R12VOCAB	R12VOCAB: W12 VOCAB SUM SCORE	Categ
3	S3VOCAB	S3VOCAB: W3 VOCAB SUM SCORE	Categ
4	S4VOCAB	S4VOCAB: W4 VOCAB SUM SCORE	Categ
5	S5VOCAB	S5VOCAB: W5 VOCAB SUM SCORE	Categ
6	S6VOCAB	S6VOCAB: W6 VOCAB SUM SCORE	Categ
7	S7VOCAB	S7VOCAB: W7 VOCAB SUM SCORE	Categ
8	S8VOCAB	S8VOCAB: W8 VOCAB SUM SCORE	Categ
9	S9VOCAB	S9VOCAB: W9 VOCAB SUM SCORE	Categ
10	S10VOCAB	S10VOCAB: W10 VOCAB SUM SCORE	Categ
11	S11VOCAB	S11VOCAB: W11 VOCAB SUM SCORE	Categ
12	S12VOCAB	S12VOCAB: W12 VOCAB SUM SCORE	Categ
3	R3FVOCAB	R3FVOCAB: W3 IMPFLAG: VOCAB SUM SCORE	Categ
4	R4FVOCAB	R4FVOCAB: W4 IMPFLAG: VOCAB SUM SCORE	Categ
5	R5FVOCAB	R5FVOCAB: W5 IMPFLAG: VOCAB SUM SCORE	Categ
6	R6FVOCAB	R6FVOCAB: W6 IMPFLAG: VOCAB SUM SCORE	Categ
7	R7FVOCAB	R7FVOCAB: W7 IMPFLAG: VOCAB SUM SCORE	Categ
8	R8FVOCAB	R8FVOCAB : W8 IMPFLAG: VOCAB SUM SCORE	Categ
9	R9FVOCAB	R9FVOCAB : W9 IMPFLAG: VOCAB SUM SCORE	Categ
10	R10FVOCAB	R10FVOCAB : W10 IMPFLAG: VOCAB SUM SCORE	Categ
11	R11FVOCAB	R11FVOCAB : W11 IMPFLAG: VOCAB SUM SCORE	Categ
12	R12FVOCAB	R12FVOCAB : W12 IMPFLAG: VOCAB SUM SCORE	Categ
3	S3FVOCAB	S3FVOCAB: W3 IMPFLAG: VOCAB SUM SCORE	Categ
4	S4FVOCAB	S4FVOCAB: W4 IMPFLAG: VOCAB SUM SCORE	Categ
5	S5FVOCAB	S5FVOCAB: W5 IMPFLAG: VOCAB SUM SCORE	Categ
6	S6FVOCAB	S6FVOCAB: W6 IMPFLAG: VOCAB SUM SCORE	Categ
7	S7FVOCAB	S7FVOCAB: W7 IMPFLAG: VOCAB SUM SCORE	Categ
8	S8FVOCAB	S8FVOCAB : W8 IMPFLAG: VOCAB SUM SCORE	Categ
9	S9FVOCAB	S9FVOCAB : W9 IMPFLAG: VOCAB SUM SCORE	Categ
10	S10FVOCAB	S10FVOCAB : W10 IMPFLAG: VOCAB SUM SCORE	Categ
11	S11FVOCAB	S11FVOCAB : W11 IMPFLAG: VOCAB SUM SCORE	Categ
12	S12FVOCAB	S12FVOCAB : W12 IMPFLAG: VOCAB SUM SCORE	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3VOCAB	16351	5.29	2.16	0.0	10.0
R4VOCAB	12330	5.57	2.12	0.0	10.0
R5VOCAB	9504	5.47	2.11	0.0	10.0
R6VOCAB	9611	5.51	2.06	0.0	10.0
R7VOCAB	3261	5.67	2.08	0.0	10.0
R8VOCAB	10517	5.45	2.07	0.0	10.0
R9VOCAB	124	5.62	2.11	1.0	10.0
R10VOCAB	16031	5.44	2.10	0.0	10.0
R11VOCAB	463	5.32	2.08	0.0	10.0
R12VOCAB	168	4.86	2.18	0.0	10.0

S3VOCAB	10804	5.43	2.08	0.0	10.0
S4VOCAB	7481	5.69	2.05	0.0	10.0
S5VOCAB	5425	5.67	2.02	0.0	10.0
S6VOCAB	5499	5.65	2.00	0.0	10.0
S7VOCAB	2278	5.71	2.03	0.0	10.0
S8VOCAB	6071	5.55	2.00	0.0	10.0
S9VOCAB	122	5.63	2.12	1.0	10.0
S10VOCAB	9477	5.52	2.07	0.0	10.0
S11VOCAB	396	5.23	2.11	0.0	10.0
S12VOCAB	157	4.94	2.16	0.0	10.0
R3FVOCAB	16351	0.01	0.07	0.0	1.0
R4FVOCAB	19341	0.73	0.96	0.0	2.0
R5FVOCAB	17517	0.91	0.99	0.0	2.0
R6FVOCAB	16129	0.82	0.98	0.0	2.0
R7FVOCAB	18327	1.64	0.76	0.0	2.0
R8FVOCAB	17209	0.78	0.97	0.0	2.0
R9FVOCAB	16077	1.98	0.17	0.0	2.0
R10FVOCAB	20652	0.45	0.83	0.0	2.0
R11FVOCAB	19407	1.95	0.30	0.0	2.0
R12FVOCAB	17698	1.98	0.19	0.0	2.0
S3FVOCAB	10804	0.00	0.06	0.0	1.0
S4FVOCAB	12571	0.81	0.98	0.0	2.0
S5FVOCAB	11320	1.04	1.00	0.0	2.0
S6FVOCAB	10280	0.94	0.99	0.0	2.0
S7FVOCAB	11769	1.61	0.79	0.0	2.0
S8FVOCAB	10943	0.90	0.99	0.0	2.0
S9FVOCAB	9989	1.98	0.22	0.0	2.0
S10FVOCAB	12696	0.51	0.87	0.0	2.0
S11FVOCAB	11838	1.93	0.36	0.0	2.0
S12FVOCAB	10438	1.97	0.24	0.0	2.0

## Categorical Variable Codes

Value		R3VOCAB	R4VOCAB	R5VOCAB	R6VOCAB	R7VOCAB
.N=Cog not asked (re-IW/ lt			7011	8013	6518	15066
.S=Proxy IW		1093	1562	1709	1763	1546
.X=NR or Proxy all IW		547	481	353	273	256
	0	524	275	215	164	60
	1	379	269	220	220	60
	2	625	441	344	365	95
	3	1832	1048	903	811	247
	4	2116	1518	1219	1259	417
	5	2808	1998	1532	1690	568
	6	3029	2362	1913	1920	659
	7	2650	2249	1627	1606	512
	8	1493	1344	962	1014	394
	9	699	607	432	395	185
	10	196	219	137	167	64

Value		R8VOCAB	R9VOCAB	R10VOCAB	R11VOCAB	R12VOCAB
.M=Oth missing					1	
.N=Cog not asked (re-IW/ lt		6692	15953	4621	18944	17530
.S=Proxy IW		1083	978	1202	971	899
.X=NR or Proxy all IW		177	162	180	175	150
	0	223		353	8	9
	1	237	3	363	14	5
	2	382	4	606	21	5
	3	907	15	1427	40	20
	4	1461	17	2269	71	32
	5	1845	18	2871	91	34
	6	2028	29	2989	71	26
	7	1803	10	2583	82	17
	8	1044	17	1539	40	14
	9	452	7	776	20	4
	10	135	4	255	5	2

Value		S3VOCAB	S4VOCAB	S5VOCAB	S6VOCAB	S7VOCAB
.N=Cog not asked (re-IW/ lt			5090	5895	4781	9491
.S=Proxy IW		768	1086	1151	1165	1001
.U=Unmarried		5658	6869	6538	6306	6777
.V=Spouse NR		418	537	311	220	380
.X=NR or Proxy all IW		343	321	259	194	202
	0	259	118	94	71	34
	1	198	137	84	98	40
	2	365	235	140	179	67
	3	1141	598	470	427	166
	4	1380	899	675	702	275
	5	1897	1229	847	949	404
	6	2051	1484	1135	1130	468
	7	1844	1401	1019	986	383
	8	1053	859	620	617	273
	9	488	387	256	242	128
	10	128	134	85	98	40

Value		S8VOCAB	S9VOCAB	S10VOCAB	S11VOCAB	S12VOCAB
.M=Oth missing					1	
.N=Cog not asked (re-IW/ lt		4872	9867	3219	11442	10281
.S=Proxy IW		644	530	662	501	460
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		317	365	722	592	593
.X=NR or Proxy all IW		148	127	155	148	129
	0	92		162	8	8
	1	113	3	182	14	4
	2	210	4	342	20	4
	3	493	15	828	34	17
	4	829	16	1348	63	31
	5	1075	18	1710	77	33

6	1202	28	1735	57	24
7	1090	10	1579	68	16
8	632	17	947	36	14
9	263	7	485	16	4
10	72	4	159	3	2

Value	R3FVOCAB	R4FVOCAB	R5FVOCAB	R6FVOCAB	R7FVOCAB
.S=Proxy IW	1093	1562	1709	1763	1546
.X=NR or Proxy all IW	547	481	353	273	256
0.Not imputed	16264	12249	9469	9477	3258
1.Imputed	87	81	92	134	3
2.NA-Not 65+, new IW, or al		7011	7956	6518	15066

Value	R8FVOCAB	R9FVOCAB	R10FVOCAB	R11FVOCAB	R12FVOCAB
.M=Oth missing				1	
.S=Proxy IW	1083	978	1202	971	899
.X=NR or Proxy all IW	177	162	180	175	150
0.Not imputed	10409	123	15954	457	166
1.Imputed	108	1	77	6	2
2.NA-Not 65+, new IW, or al	6692	15953	4621	18944	17530

Value	S3FVOCAB	S4FVOCAB	S5FVOCAB	S6FVOCAB	S7FVOCAB
.S=Proxy IW	768	1086	1151	1165	1001
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	418	537	311	220	380
.X=NR or Proxy all IW	343	321	259	194	202
0.Not imputed	10761	7434	5434	5429	2275
1.Imputed	43	47	39	70	3
2.NA-Not 65+, new IW, or al		5090	5847	4781	9491

Value	S8FVOCAB	S9FVOCAB	S10FVOCAB	S11FVOCAB	S12FVOCAB
.M=Oth missing				1	
.S=Proxy IW	644	530	662	501	460
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NR or Proxy all IW	148	127	155	148	129
0.Not imputed	6017	121	9436	392	155
1.Imputed	54	1	41	4	2
2.NA-Not 65+, new IW, or al	4872	9867	3219	11442	10281



## Format Reference Tables – complete variable value labels

Variables: VOCAB	Variables: FBWC20, FBWC86, FCACT, FDLRC, FDW, FDY, FIMRC, FMO, FPRES, FPSTME, FSCIS, FSER7, FSLFME, FVOCAB, FVP, FYR
.C=HRS-AHD overlap .M=Oth missing .N=Cog not asked (re-IW/ lt 65) .Q=Not asked this cohort or wv .S=Proxy IW .U=Unmarried .V=Spouse NR .X=NR or Proxy all IW	.C=HRS-AHD overlap .M=Oth missing .N=Cog not asked (re-IW/ lt 65) .Q=Not asked this cohort or wv .S=Proxy IW .U=Unmarried .V=Spouse NR .X=NR or Proxy all IW 0.Not imputed 1.Imputed 2.NA-Not 65+, new IW, or alt wv

### How Constructed

RwVOCAB scores the Respondents ability to provide definitions of five given words.

There are two sets of words, one of which is randomly assigned at the Respondent's first interview. The two sets are then alternated in subsequent waves. The two word sets are: 1) repair, fabric, domestic, remorse, plagiarize; and 2) conceal, enormous, perimeter, compassion, audacious.

These questions were asked beginning in Wave 3. From Wave 4 forward, they are only asked of new interviewees and re-interviewees who are 65 or older.

The possible scores for each word are perfectly correct (=2), partially correct (=1), and incorrect (0). RwVOCAB is the sum of scores over the five words. If this task was skipped because the Respondent is a re-interviewee younger than 65, then special missing value .N is assigned.

RwFVOCAB indicates whether the values were imputed (=1) or not (=0). It has a value of 2 if the question was skipped because the Respondent is a re-interviewee younger than 65.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

SwVOCAB and SwFVOCAB were taken from the respective Rw variables for the Wave "w" spouse.

### General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

**Cross Wave Differences in Original HRS Data**

This task was not given in Waves 1 and 2, but is given in all later waves. From Wave 4 forward, it is only given to new interviewees and re-interviewees who are 65 or older. In Wave 9, the vocabulary questions were not asked of re-interview Respondents. Re-interview Respondents are asked the questions every 4 years rather than every two.

The frequencies for R9VOCAB and S9VOCAB are lower in Wave 9.

<b>Imputed Cognition: Summary Scores</b>
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Wave	Variable	Label	Type
1	R1TR40	R1TR40: W1 TOTAL WORD RECALL SUMMARY SCORE	Cont
1	S1TR40	S1TR40: W1 TOTAL WORD RECALL SUMMARY SCORE	Cont
2	R2ATR20	R2ATR20: W2 AHD WORD TOTAL RECALL SUMMARY SCORE	Cont
2	S2ATR20	S2ATR20: W2 AHD WORD TOTAL RECALL SUMMARY SCORE	Cont
2	R2HTR40	R2HTR40: W2 HRS WORD TOTAL RECALL SUMMARY SCORE	Cont
2	S2HTR40	S2HTR40: W2 HRS WORD TOTAL RECALL SUMMARY SCORE	Cont
3	R3TR20	R3TR20: W3 TOTAL WORD RECALL SUMMARY SCORE	Cont
4	R4TR20	R4TR20: W4 TOTAL WORD RECALL SUMMARY SCORE	Cont
5	R5TR20	R5TR20: W5 TOTAL WORD RECALL SUMMARY SCORE	Cont
6	R6TR20	R6TR20: W6 TOTAL WORD RECALL SUMMARY SCORE	Cont
7	R7TR20	R7TR20: W7 TOTAL WORD RECALL SUMMARY SCORE	Cont
8	R8TR20	R8TR20: W8 TOTAL WORD RECALL SUMMARY SCORE	Cont
9	R9TR20	R9TR20: W9 TOTAL WORD RECALL SUMMARY SCORE	Cont
10	R10TR20	R10TR20: W10 TOTAL WORD RECALL SUMMARY SCORE	Cont
11	R11TR20	R11TR20: W11 TOTAL WORD RECALL SUMMARY SCORE	Cont
12	R12TR20	R12TR20: W12 TOTAL WORD RECALL SUMMARY SCORE	Cont
3	S3TR20	S3TR20: W3 TOTAL WORD RECALL SUMMARY SCORE	Cont
4	S4TR20	S4TR20: W4 TOTAL WORD RECALL SUMMARY SCORE	Cont
5	S5TR20	S5TR20: W5 TOTAL WORD RECALL SUMMARY SCORE	Cont
6	S6TR20	S6TR20: W6 TOTAL WORD RECALL SUMMARY SCORE	Cont
7	S7TR20	S7TR20: W7 TOTAL WORD RECALL SUMMARY SCORE	Cont
8	S8TR20	S8TR20: W8 TOTAL WORD RECALL SUMMARY SCORE	Cont
9	S9TR20	S9TR20: W9 TOTAL WORD RECALL SUMMARY SCORE	Cont
10	S10TR20	S10TR20: W10 TOTAL WORD RECALL SUMMARY SCORE	Cont
11	S11TR20	S11TR20: W11 TOTAL WORD RECALL SUMMARY SCORE	Cont
12	S12TR20	S12TR20: W12 TOTAL WORD RECALL SUMMARY SCORE	Cont
2	R2AMSTOT	R2AMSTOT: W2 AHD MENTAL STATUS SUMMARY SCORE	Cont
2	S2AMSTOT	S2AMSTOT: W2 AHD MENTAL STATUS SUMMARY SCORE	Cont
2	R2ACGTOT	R2ACGTOT: W2 AHD TOTAL COGNITION SUMMARY SCORE	Cont
2	S2ACGTOT	S2ACGTOT: W2 AHD TOTAL COGNITION SUMMARY SCORE	Cont
3	R3MSTOT	R3MSTOT: W3 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
4	R4MSTOT	R4MSTOT: W4 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
5	R5MSTOT	R5MSTOT: W5 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
6	R6MSTOT	R6MSTOT: W6 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
7	R7MSTOT	R7MSTOT: W7 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
8	R8MSTOT	R8MSTOT: W8 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
9	R9MSTOT	R9MSTOT: W9 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
10	R10MSTOT	R10MSTOT: W10 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
11	R11MSTOT	R11MSTOT: W11 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
12	R12MSTOT	R12MSTOT: W12 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
3	S3MSTOT	S3MSTOT: W3 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
4	S4MSTOT	S4MSTOT: W4 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
5	S5MSTOT	S5MSTOT: W5 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
6	S6MSTOT	S6MSTOT: W6 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
7	S7MSTOT	S7MSTOT: W7 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
8	S8MSTOT	S8MSTOT: W8 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
9	S9MSTOT	S9MSTOT: W9 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
10	S10MSTOT	S10MSTOT: W10 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
11	S11MSTOT	S11MSTOT: W11 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
12	S12MSTOT	S12MSTOT: W12 TOTAL MENTAL STATUS SUMMARY SCORE	Cont
3	R3COGTOT	R3COGTOT: W3 TOTAL COGNITION SUMMARY SCORE	Cont
4	R4COGTOT	R4COGTOT: W4 TOTAL COGNITION SUMMARY SCORE	Cont

5	R5COGTOT	R5COGTOT: W5 TOTAL COGNITION SUMMARY SCORE	Cont
6	R6COGTOT	R6COGTOT: W6 TOTAL COGNITION SUMMARY SCORE	Cont
7	R7COGTOT	R7COGTOT: W7 TOTAL COGNITION SUMMARY SCORE	Cont
8	R8COGTOT	R8COGTOT: W8 TOTAL COGNITION SUMMARY SCORE	Cont
9	R9COGTOT	R9COGTOT: W9 TOTAL COGNITION SUMMARY SCORE	Cont
10	R10COGTOT	R10COGTOT: W10 TOTAL COGNITION SUMMARY SCORE	Cont
11	R11COGTOT	R11COGTOT: W11 TOTAL COGNITION SUMMARY SCORE	Cont
12	R12COGTOT	R12COGTOT: W12 TOTAL COGNITION SUMMARY SCORE	Cont
3	S3COGTOT	S3COGTOT: W3 TOTAL COGNITION SUMMARY SCORE	Cont
4	S4COGTOT	S4COGTOT: W4 TOTAL COGNITION SUMMARY SCORE	Cont
5	S5COGTOT	S5COGTOT: W5 TOTAL COGNITION SUMMARY SCORE	Cont
6	S6COGTOT	S6COGTOT: W6 TOTAL COGNITION SUMMARY SCORE	Cont
7	S7COGTOT	S7COGTOT: W7 TOTAL COGNITION SUMMARY SCORE	Cont
8	S8COGTOT	S8COGTOT: W8 TOTAL COGNITION SUMMARY SCORE	Cont
9	S9COGTOT	S9COGTOT: W9 TOTAL COGNITION SUMMARY SCORE	Cont
10	S10COGTOT	S10COGTOT: W10 TOTAL COGNITION SUMMARY SCORE	Cont
11	S11COGTOT	S11COGTOT: W11 TOTAL COGNITION SUMMARY SCORE	Cont
12	S12COGTOT	S12COGTOT: W12 TOTAL COGNITION SUMMARY SCORE	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TR40	11883	12.84	5.30	0.0	40.0
S1TR40	9166	13.12	5.23	0.0	40.0
R2ATR20	7382	7.71	3.94	0.0	20.0
S2ATR20	3866	8.32	3.83	0.0	20.0
R2HTR40	10691	13.94	6.19	0.0	40.0
S2HTR40	8070	14.15	6.08	0.0	40.0
R3TR20	16351	9.94	3.92	0.0	20.0
R4TR20	19341	10.21	3.88	0.0	20.0
R5TR20	17517	9.88	3.77	0.0	20.0
R6TR20	16129	9.98	3.65	0.0	20.0
R7TR20	18327	9.78	3.48	0.0	20.0
R8TR20	17209	9.72	3.61	0.0	20.0
R9TR20	16077	9.68	3.56	0.0	20.0
R10TR20	20652	9.67	3.40	0.0	20.0
R11TR20	19407	9.59	3.46	0.0	20.0
R12TR20	17698	9.65	3.54	0.0	20.0
S3TR20	10804	10.35	3.76	0.0	20.0
S4TR20	12571	10.61	3.72	0.0	20.0
S5TR20	11320	10.27	3.62	0.0	20.0
S6TR20	10280	10.33	3.52	0.0	20.0
S7TR20	11769	10.13	3.35	0.0	20.0
S8TR20	10943	10.11	3.46	0.0	20.0
S9TR20	9989	10.01	3.44	0.0	20.0
S10TR20	12696	9.98	3.31	0.0	20.0
S11TR20	11838	9.94	3.37	0.0	20.0
S12TR20	10438	10.05	3.43	0.0	20.0
R2AMSTOT	7382	12.10	2.83	0.0	15.0

S2AMSTOT	3866	12.59	2.54	1.0	15.0
R2ACGTOT	7382	19.81	5.85	0.0	35.0
S2ACGTOT	3866	20.91	5.43	1.0	35.0
R3MSTOT	16351	12.63	2.47	0.0	15.0
R4MSTOT	12330	12.72	2.52	0.0	15.0
R5MSTOT	9504	12.71	2.50	0.0	15.0
R6MSTOT	9611	12.52	2.64	0.0	15.0
R7MSTOT	13083	12.73	2.50	0.0	15.0
R8MSTOT	10517	12.54	2.66	0.0	15.0
R9MSTOT	10518	12.51	2.65	0.0	15.0
R10MSTOT	16031	12.27	2.52	0.0	15.0
R11MSTOT	10250	12.23	2.67	0.0	15.0
R12MSTOT	9692	12.27	2.69	0.0	15.0
S3MSTOT	10804	12.95	2.26	0.0	15.0
S4MSTOT	7481	13.11	2.25	0.0	15.0
S5MSTOT	5425	13.08	2.25	1.0	15.0
S6MSTOT	5499	12.94	2.35	0.0	15.0
S7MSTOT	7935	13.06	2.25	0.0	15.0
S8MSTOT	6071	12.90	2.40	0.0	15.0
S9MSTOT	6039	12.89	2.37	0.0	15.0
S10MSTOT	9477	12.58	2.32	0.0	15.0
S11MSTOT	5923	12.59	2.45	0.0	15.0
S12MSTOT	5348	12.67	2.44	0.0	15.0
R3COGTOT	16351	22.57	5.46	0.0	35.0
R4COGTOT	12330	22.16	5.53	0.0	35.0
R5COGTOT	9504	21.52	5.35	0.0	35.0
R6COGTOT	9611	21.66	5.35	0.0	35.0
R7COGTOT	13083	22.02	5.16	0.0	35.0
R8COGTOT	10517	21.38	5.37	0.0	35.0
R9COGTOT	10518	21.50	5.31	0.0	35.0
R10COGTOT	16031	21.58	5.01	0.0	35.0
R11COGTOT	10250	21.09	5.29	0.0	35.0
R12COGTOT	9692	21.22	5.45	0.0	35.0
S3COGTOT	10804	23.30	5.05	0.0	35.0
S4COGTOT	7481	23.00	5.10	0.0	35.0
S5COGTOT	5425	22.27	4.96	1.0	35.0
S6COGTOT	5499	22.40	4.96	0.0	35.0
S7COGTOT	7935	22.73	4.78	1.0	35.0
S8COGTOT	6071	22.10	4.96	0.0	35.0
S9COGTOT	6039	22.17	4.91	0.0	35.0
S10COGTOT	9477	22.19	4.68	1.0	35.0
S11COGTOT	5923	21.79	4.94	0.0	35.0
S12COGTOT	5348	22.03	5.09	0.0	35.0

## How Constructed

R1TR40, R2ATR20, R2HTR40, and RwTR20 are summary scores for total word recall. R2AMSTOT and RwMSTOT summarize the mental status items. R2ACGTOT and RwCOGTOT summarize word recall and mental status together.

The total word recall summary variables sum the immediate and delayed word recall scores. In Waves 1 and 2H, the word list contained 20 nouns, while in other waves, the list contained 10 words. The variable name suffix indicates the maximum score possible for total word recall, e.g., R1TR40 (range 0-40) is the sum of R1IMRC20 (range 0-20) and R1DLRC20 (range 0-20), and R4TR20 (range 0-20) is the sum of R4IMRC (range 0-10) and R4DLRC (range 0-10). The variables R1TR40, R2HTR40, and R2ATR20 are named to indicate this difference in the measures for Waves 1 and 2.

The mental status summary sums the scores for serial 7's (RwSER7, 0-5), backwards counting from 20 (RwBWC2, 0-2), and object (RwCACT, RwSCIS; 0-2 total), date (RwDY, RwMO, RwYR, RwDW; 0-4 total), and President/Vice-President (RwPRES, RwVP; 0-2 total) naming tasks. The resulting range is 0-15. Since these items were not included in Waves 1 and 2H, there is no mental summary score for these waves, and the Wave 2A summary is called R2AMSTOT to indicate that it is limited to the AHEAD cohort in Wave 2.

The total cognition score sums the total word recall and mental status summary scores, resulting in a range of 0-35. For Wave 2A, R2ACOGTOT is the sum of R2ATR20 and R2AMSTOT. RwcOGTOT is the sum of RwTR20 and RwmSTOT for all other waves. RwcOGTOT is not available in Waves 1 and 2H.

In Wave 2H, R2ATR20, R2AMSTOT, and R2ACGTOT are set to special missing .Q to indicate that they are missing for all HRS Respondents. In Wave 2H, R2HTR40 is set to special missing .Q to indicate that it is missing for all AHEAD Respondents.

Note: Special missing values have been assigned to cognition measures when the Respondent has no non-proxy interviews (.X), the specific interview was by proxy (.S), cognition measure not asked (reinterview/lt 65) (.N), and in Wave 1 when the Respondent is an HRS/AHEAD overlap case (.C). In these cases, imputations were not done.

The Sw cognition summary variables were taken from the respective Rw variables for the Wave "w" spouse.

Note that the variable name R2ACGTOT has been shortened from R2ACOGTOT in the original HRS imputation file to conform to the current 8-character limit.

## General Comments

The cognition variables are taken directly from the HRS imputations of cognitive functioning. These imputations are calculated only for the final release data. Please refer to the Health and Retirement Study Imputation of Cognitive Functioning Measures (1992 - 2014) (Final Release Version) Data Description (Fisher et.al., January 2017) on the [HRS website](#) for a more detailed description of the measures and the imputation process. All questions on the construction of the variables should be directed to HRS.

## **Section C: Financial and Housing Wealth**

<b>Net value of real estate (not primary residence)</b>
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Wave	Variable	Label	Type
1	H1ARLES	H1ARLES:W1 Assets:Other Real estate--Cross-wave	Cont
2	H2ARLES	H2ARLES:W2 Assets:Other Real estate--Cross-wave	Cont
3	H3ARLES	H3ARLES:W3 Assets:Other Real estate--Cross-wave	Cont
4	H4ARLES	H4ARLES:W4 Assets:Other Real estate--Cross-wave	Cont
5	H5ARLES	H5ARLES:W5 Assets:Other Real estate--Cross-wave	Cont
6	H6ARLES	H6ARLES:W6 Assets:Other Real estate--Cross-wave	Cont
7	H7ARLES	H7ARLES:W7 Assets:Other Real estate--Cross-wave	Cont
8	H8ARLES	H8ARLES:W8 Assets:Other Real estate--Cross-wave	Cont
9	H9ARLES	H9ARLES:W9 Assets:Other Real estate--Cross-wave	Cont
10	H10ARLES	H10ARLES:W10 Assets:Other Real estate--Cross-wave	Cont
11	H11ARLES	H11ARLES:W11 Assets:Other Real estate--Cross-wave	Cont
12	H12ARLES	H12ARLES:W12 Assets:Other Real estate--Cross-wave	Cont
1	H1AFRLES	H1AFRLES:W1 Assets Flag:Other Real estate--Cross-wave	Categ
2	H2AFRLES	H2AFRLES:W2 Assets Flag:Other Real estate--Cross-wave	Categ
3	H3AFRLES	H3AFRLES:W3 Assets Flag:Other Real estate--Cross-wave	Categ
4	H4AFRLES	H4AFRLES:W4 Assets Flag:Other Real estate--Cross-wave	Categ
5	H5AFRLES	H5AFRLES:W5 Assets Flag:Other Real estate--Cross-wave	Categ
6	H6AFRLES	H6AFRLES:W6 Assets Flag:Other Real estate--Cross-wave	Categ
7	H7AFRLES	H7AFRLES:W7 Assets Flag:Other Real estate--Cross-wave	Categ
8	H8AFRLES	H8AFRLES:W8 Assets Flag:Other Real estate--Cross-wave	Categ
9	H9AFRLES	H9AFRLES:W9 Assets Flag:Other Real estate--Cross-wave	Categ
10	H10AFRLES	H10AFRLES:W10 Assets Flag:Other Real estate--Cross-wave	Categ
11	H11AFRLES	H11AFRLES:W11 Assets Flag:Other Real estate--Cross-wave	Categ
12	H12AFRLES	H12AFRLES:W12 Assets Flag:Other Real estate--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ARLES	12652	36558.92	180502.30	-20000.0	4500000.0
H2ARLES	19642	34269.88	192911.86	-1.0	11561662.1
H3ARLES	17991	37493.41	196775.17	0.0	6354086.1
H4ARLES	21384	36264.74	230283.99	0.0	10000000.0
H5ARLES	19579	41743.51	326481.71	0.0	20000000.0
H6ARLES	18165	40873.31	329515.80	0.0	25000000.0
H7ARLES	20129	47239.04	332182.61	0.0	15000000.0
H8ARLES	18469	54622.86	342028.09	0.0	11492739.6
H9ARLES	17217	62500.99	500500.05	0.0	35000000.0
H10ARLES	22034	38175.12	270976.86	-60000.0	10000000.0
H11ARLES	20554	36656.74	293277.91	0.0	20000000.0
H12ARLES	18747	40921.60	432491.28	-10000.0	40000000.0
H1AFRLES	12652	4.90	2.05	1.0	9.0
H2AFRLES	19642	4.95	2.05	1.0	9.0
H3AFRLES	17991	5.01	1.99	1.0	9.0
H4AFRLES	21384	5.19	1.86	1.0	9.0
H5AFRLES	19579	5.18	1.85	1.0	9.0
H6AFRLES	18165	5.24	1.79	1.0	9.0
H7AFRLES	20129	5.29	1.74	1.0	9.0
H8AFRLES	18469	5.31	1.72	1.0	9.0
H9AFRLES	17217	5.36	1.67	1.0	9.0
H10AFRLES	22034	5.45	1.68	1.0	9.0
H11AFRLES	20554	5.43	1.64	1.0	9.0
H12AFRLES	18747	5.44	1.64	1.0	9.0



## Categorical Variable Codes

Value	H1AFRLES	H2AFRLES	H3AFRLES	H4AFRLES	H5AFRLES	H6AFRLES	H7AFRLES
1.Continuous value	2352	3521	3086	2989	2787	2480	2508
2.Complete bracket	464	865	551	659	548	365	432
3.Incomplete bracket	39	48	157	71	61	35	47
4.Range card bracket	186						
5.No value/bracket	98	148	122	187	177	191	203
6.No asset	9361	14704	13840	17140	15765	14919	16724
7.DK ownership	57	179	109	167	117	130	128
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFRLES	H9AFRLES	H10AFRLES	H11AFRLES	H12AFRLES
1.Continuous value	2263	1948	2365	2198	2011
2.Complete bracket	370	326	340	293	236
3.Incomplete bracket	42	37	38	39	31
5.No value/bracket	179	154	159	148	128
6.No asset	15451	14557	18527	17559	15968
7.DK ownership	101	121	208	148	174
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of real estate is assigned to HwARLES. The HwAFRLES variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The net value of real estate, besides the primary residence, is asked at each wave. The question wording is the same at all waves, but the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any real estate and if so, the value of it:

a) "Do you [or your spouse/partner] have any real estate other than your main home (and your second home), such as land, rental real estate, a partnership, or money owed to you on a land contract or mortgage?"

b) "If you sold all that and paid off any debts on it, how much would you get?"

If the Respondent refuses or doesn't know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

**HRS Variables Used**

```

HRS 1992:
V15201      M2:OTHER REAL ESTATE:IND
V15202      M3:$VAL OF THIS PROP:IND
V5201       M2:OTHER REAL ESTATE:IMP
V5202       M3:$VAL OF THIS PROP:IMP
V5203       M3: ORIGINAL BRACKETS

AHEAD 1993:
B1720       K2. REAL ESTATE: ANY
B1721       K3. REAL ESTATE: NET VALUE
B1721C      CATEG: K3. REAL ESTATE: NET VALUE

HRS 1994:
W15500      K2. Imputation Indicator
W15501      K3. Imputation Indicator
W5500       K2.REAL ESTATE
W5501       K3.VALUE OF REAL ESTATE
W5502       K3a-K3d. Brackets

AHEAD 1995:
D3964       J14.REAL ESTATE
D3965       J15.REAL ESTATE $
D3969B      J15.REAL ESTATE $/Bkt

HRS 1996:
E4070       J76.REAL ESTATE
E4071       J77.REAL ESTATE $
E4072B      J77.REAL ESTATE $/Bkt

HRS 1998:
F4830       J76.REAL ESTATE
F4831       J77.REAL ESTATE $
F4832B      J77.(J15)REAL ESTATE $-Bkt

HRS 2000:
G5275       J76.REAL ESTATE
G5276       J77.REAL ESTATE $
G5277       J77A1.DK-2500
G5278       J77B1.DK-125K
G5279       J77C1.DK-500K
G5280       J77D1.DK-1 MIL
G5281       J77E1.DK-125K
G5282       J77F1.DK-2500

HRS 2002:
HQ133       REAL ESTATE ASSET
HQ134       REAL ESTATE ASSET AMT
HQ135       REAL ESTATE ASSET AMT - MIN
HQ136       REAL ESTATE ASSET AMT - MAX
HQ137       REAL ESTATE ASSET AMT - RESULT
HU001       U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1     ASSET RECONCILIATION WHICH WRONG -1
HU002M2     ASSET RECONCILIATION WHICH WRONG -2
HU003       ASSET RECONCILIATION HOW MUCH
HU004       ASSET RECONCILIATION - MIN
HU005       ASSET RECONCILIATION - MAX
HU006       ASSET RECONCILIATION - RESULT
TYPASST     TYPE OF ASSETS

HRS 2004:
JQ133       REAL ESTATE ASSET
JQ134       REAL ESTATE ASSET AMT
JQ135       REAL ESTATE ASSET AMT - MIN
JQ136       REAL ESTATE ASSET AMT - MAX
JQ137       REAL ESTATE ASSET AMT - RESULT
JU001_1     ASSET RECONCILIATION STEM QUESTION - 1

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JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ133	REAL ESTATE ASSET
KQ134	REAL ESTATE ASSET AMT
KQ135	REAL ESTATE ASSET AMT - MIN
KQ136	REAL ESTATE ASSET AMT - MAX
KQ137	REAL ESTATE ASSET AMT - RESULT
KU001_11	ASSET RECONCILIATION-REAL ESTATE
KU002_11	ASSET RECON WHICH WRONG-REAL ESTATE
KU003_11A	ASSET RECON HOW MUCH -A-REAL ESTATE
KU003_11B	ASSET RECON HOW MUCH-B-REAL ESTATE
KU004_11A	ASSET RECON -MIN-A-REAL ESTATE
KU004_11B	ASSET RECON-MIN-B-REAL ESTATE
KU005_11A	ASSET RECON -MAX-A -REAL ESTATE
KU005_11B	ASSET RECON-MAX-B -REAL ESTATE
KU006_11A	ASSET RECON - RESULT-A-REAL ESTATE
KU006_11B	ASSET RECON- RESULT-B-REAL ESTATE
KU022_11A	WHICH WAVE WRONG-A-REAL ESTATE
KU022_11B	WHICH WAVE WRONG-B-REAL ESTATE
HRS 2008:	
LQ133	REAL ESTATE ASSET
LQ134	REAL ESTATE ASSET AMT
LQ135	REAL ESTATE ASSET AMT - MIN
LQ136	REAL ESTATE ASSET AMT - MAX
LQ137	REAL ESTATE ASSET AMT - RESULT

LU001_11	ASSET RECONCILIATION-REAL ESTATE
LU002_11	ASSET RECONCILIATION WHICH WRONG-REAL ESTATE
LU003_11A	ASSET RECONCILIATION HOW MUCH -A-REAL ESTATE
LU003_11B	ASSET RECONCILIATION HOW MUCH-B-REAL ESTATE
LU004_11A	ASSET RECON -MIN-A-REAL ESTATE
LU004_11B	ASSET RECON-MIN-B-REAL ESTATE
LU005_11A	ASSET RECON -MAX-A -REAL ESTATE
LU005_11B	ASSET RECON-MAX-B -REAL ESTATE
LU006_11A	ASSET RECON - RESULT-A-REAL ESTATE
LU006_11B	ASSET RECON- RESULT-B-REAL ESTATE
LU022_11A	WHICH WAVE WRONG-A-REAL ESTATE
LU022_11B	WHICH WAVE WRONG-B-REAL ESTATE
HRS 2010:	
MQ133	REAL ESTATE ASSET
MQ134	REAL ESTATE ASSET AMT
MQ135	REAL ESTATE ASSET AMT - MIN
MQ136	REAL ESTATE ASSET AMT - MAX
MQ137	REAL ESTATE ASSET AMT - RESULT
MU001_11	ASSET RECONCILIATION - REAL ESTATE
MU002_11	ASSET RECONCILIATION - WHICH WRONG-REAL ESTATE
MU003_11A	ASSET RECONCILIATION - HOW MUCH -A-REAL ESTATE
MU003_11B	ASSET RECONCILIATION - HOW MUCH-B-REAL ESTATE
MU004_11A	ASSET RECONCILIATION - MIN-A-REAL ESTATE
MU004_11B	ASSET RECONCILIATION - MIN-B-REAL ESTATE
MU005_11A	ASSET RECONCILIATION - MAX-A -REAL ESTATE
MU005_11B	ASSET RECONCILIATION - MAX-B -REAL ESTATE
MU006_11A	ASSET RECONCILIATION - RESULT-A-REAL ESTATE
MU006_11B	ASSET RECONCILIATION - RESULT-B-REAL ESTATE
MU022_11A	WHICH WAVE WRONG-A-REAL ESTATE
MU022_11B	WHICH WAVE WRONG-B-REAL ESTATE
HRS 2012:	
NQ133	REAL ESTATE ASSET
NQ134	REAL ESTATE ASSET AMT
NQ135	REAL ESTATE ASSET AMT - MIN
NQ136	REAL ESTATE ASSET AMT - MAX
NQ137	REAL ESTATE ASSET AMT - RESULT
NU001_11	ASSET RECONCILIATION - REAL ESTATE
NU002_11	ASSET RECONCILIATION - WHICH WRONG-REAL ESTATE
NU003_11A	ASSET RECONCILIATION - HOW MUCH -A-REAL ESTATE
NU003_11B	ASSET RECONCILIATION - HOW MUCH-B-REAL ESTATE
NU004_11A	ASSET RECONCILIATION - MIN-A-REAL ESTATE
NU004_11B	ASSET RECONCILIATION - MIN-B-REAL ESTATE
NU005_11A	ASSET RECONCILIATION - MAX-A -REAL ESTATE
NU005_11B	ASSET RECONCILIATION - MAX-B -REAL ESTATE
NU006_11A	ASSET RECONCILIATION - RESULT-A-REAL ESTATE
NU006_11B	ASSET RECONCILIATION - RESULT-B-REAL ESTATE
NU022_11A	WHICH WAVE WRONG-A-REAL ESTATE
NU022_11B	WHICH WAVE WRONG-B-REAL ESTATE
HRS 2014:	
OQ133	REAL ESTATE ASSET
OQ134	REAL ESTATE ASSET AMT
OQ135	REAL ESTATE ASSET AMT - MIN
OQ136	REAL ESTATE ASSET AMT - MAX
OQ137	REAL ESTATE ASSET AMT - RESULT
OU001_11	ASSET RECONCILIATION - REAL ESTATE
OU002_11	ASSET RECONCILIATION - WHICH WRONG-REAL ESTATE
OU003_11A	ASSET RECONCILIATION - HOW MUCH -A-REAL ESTATE
OU003_11B	ASSET RECONCILIATION - HOW MUCH-B-REAL ESTATE
OU004_11A	ASSET RECONCILIATION - MIN-A-REAL ESTATE

OU004_11B	ASSET RECONCILIATION - MIN-B-REAL ESTATE
OU005_11A	ASSET RECONCILIATION - MAX-A -REAL ESTATE
OU005_11B	ASSET RECONCILIATION - MAX-B -REAL ESTATE
OU006_11A	ASSET RECONCILIATION - RESULT-A-REAL ESTATE
OU006_11B	ASSET RECONCILIATION - RESULT-B-REAL ESTATE
OU022_11A	WHICH WAVE WRONG-A-REAL ESTATE
OU022_11B	WHICH WAVE WRONG-B-REAL ESTATE

<b>Net value of vehicles</b>
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Wave	Variable	Label	Type
1	H1ATRAN	H1ATRAN:W1 Assets:Transportation--Cross-wave	Cont
2	H2ATRAN	H2ATRAN:W2 Assets:Transportation--Cross-wave	Cont
3	H3ATRAN	H3ATRAN:W3 Assets:Transportation--Cross-wave	Cont
4	H4ATRAN	H4ATRAN:W4 Assets:Transportation--Cross-wave	Cont
5	H5ATRAN	H5ATRAN:W5 Assets:Transportation--Cross-wave	Cont
6	H6ATRAN	H6ATRAN:W6 Assets:Transportation--Cross-wave	Cont
7	H7ATRAN	H7ATRAN:W7 Assets:Transportation--Cross-wave	Cont
8	H8ATRAN	H8ATRAN:W8 Assets:Transportation--Cross-wave	Cont
9	H9ATRAN	H9ATRAN:W9 Assets:Transportation--Cross-wave	Cont
10	H10ATRAN	H10ATRAN:W10 Assets:Transportation--Cross-wave	Cont
11	H11ATRAN	H11ATRAN:W11 Assets:Transportation--Cross-wave	Cont
12	H12ATRAN	H12ATRAN:W12 Assets:Transportation--Cross-wave	Cont
1	H1AFTRAN	H1AFTRAN:W1 Assets Flag:Transportation--Cross-wave	Categ
2	H2AFTRAN	H2AFTRAN:W2 Assets Flag:Transportation--Cross-wave	Categ
3	H3AFTRAN	H3AFTRAN:W3 Assets Flag:Transportation--Cross-wave	Categ
4	H4AFTRAN	H4AFTRAN:W4 Assets Flag:Transportation--Cross-wave	Categ
5	H5AFTRAN	H5AFTRAN:W5 Assets Flag:Transportation--Cross-wave	Categ
6	H6AFTRAN	H6AFTRAN:W6 Assets Flag:Transportation--Cross-wave	Categ
7	H7AFTRAN	H7AFTRAN:W7 Assets Flag:Transportation--Cross-wave	Categ
8	H8AFTRAN	H8AFTRAN:W8 Assets Flag:Transportation--Cross-wave	Categ
9	H9AFTRAN	H9AFTRAN:W9 Assets Flag:Transportation--Cross-wave	Categ
10	H10AFTRAN	H10AFTRAN:W10 Assets Flag:Transportation--Cross-wave	Categ
11	H11AFTRAN	H11AFTRAN:W11 Assets Flag:Transportation--Cross-wave	Categ
12	H12AFTRAN	H12AFTRAN:W12 Assets Flag:Transportation--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATRAN	12652	13156.31	45491.26	0.0	3000000.0
H2ATRAN	19642	11473.74	33927.46	0.0	2000000.0
H3ATRAN	17991	10968.66	15708.39	0.0	300000.0
H4ATRAN	21384	12884.46	32124.27	0.0	3500000.0
H5ATRAN	19579	13338.68	34278.91	0.0	3500000.0
H6ATRAN	18165	14264.67	39535.51	0.0	4445000.0
H7ATRAN	20129	14486.39	33306.25	0.0	3500000.0
H8ATRAN	18469	15546.41	63920.73	0.0	8100000.0
H9ATRAN	17217	15069.85	25134.25	0.0	775000.0
H10ATRAN	22034	14031.84	42987.88	0.0	5000000.0
H11ATRAN	20554	14435.47	34691.90	0.0	3500000.0
H12ATRAN	18747	14940.13	42735.64	0.0	4700000.0
H1AFTRAN	12652	1.80	1.77	1.0	9.0
H2AFTRAN	19642	2.04	2.00	1.0	9.0
H3AFTRAN	17991	2.34	2.08	1.0	9.0
H4AFTRAN	21384	2.14	1.99	1.0	9.0
H5AFTRAN	19579	2.12	1.97	1.0	9.0
H6AFTRAN	18165	2.14	1.95	1.0	9.0
H7AFTRAN	20129	2.10	1.94	1.0	9.0
H8AFTRAN	18469	2.04	1.90	1.0	9.0
H9AFTRAN	17217	2.09	1.94	1.0	9.0
H10AFTRAN	22034	2.28	2.18	1.0	9.0
H11AFTRAN	20554	2.23	2.10	1.0	9.0
H12AFTRAN	18747	2.28	2.15	1.0	9.0

## Categorical Variable Codes

Value	H1AFTRAN	H2AFTRAN	H3AFTRAN	H4AFTRAN	H5AFTRAN	H6AFTRAN	H7AFTRAN
1.Continuous value	9767	13984	11635	14106	13124	12039	13657
2.Complete bracket	1018	2105	1274	2975	2532	2318	2406
3.Incomplete bracket	41	55	520	91	85	105	116
4.Range card bracket	335						
5.No value/bracket			1366	439	480	606	667
6.No asset	1174	3032	3014	3485	3167	2991	3136
7.DK ownership	222	289	56	117	67	61	60
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFTRAN	H9AFTRAN	H10AFTRAN	H11AFTRAN	H12AFTRAN
1.Continuous value	12764	11785	15023	14180	12834
2.Complete bracket	2169	1970	1753	1550	1372
3.Incomplete bracket	107	128	169	153	101
5.No value/bracket	490	454	521	476	454
6.No asset	2834	2762	4075	3949	3709
7.DK ownership	42	44	96	77	78
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of vehicles is assigned to HwATRAN. The HwAFTRAN variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

In Waves 1 and 2, ownership is based solely upon whether a value is provided, as there is no direct question about ownership. This asset was being coded so that HwAFTRAN had fewer cases defined as "DK ownership." Beginning in Version G, we changed the logic to also look at the brackets. Those who did not provide any bracket information were also set to "DK ownership." [See Appendix A for a description of how many cases were affected by this change.]

## Cross Wave Differences in Original HRS Data

The net value of vehicles in Wave 1 is the sum of value of a recreational vehicle (from Section D: Housing) and value of other vehicles (from Section M: Net Worth other than Housing).

From Wave 2 forward, the recreational vehicle question is dropped from the Housing section. Only the value of vehicles from Net Worth section is used.

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

```

HRS 1992:
V10838      D50:91-R1-OWNRCMOTRH:IND
V10839      D50A:MOTOR_HOME_VALU:IND
V15205      M4:$VAL VEHICLES OWN:IND
V5205       M4:$VAL VEHICLES OWN:IMP
V5206       M4: ORIGINAL BRACKETS
V838        D50:OWN RC OR MOTOR :IMP
V839        D50A:VALUE:$          :IMP

AHEAD 1993:
B1725       K4. TRANSPORTATION: NET VALUE
B1725C      CATEG: K4. TRANSPORTATION: NET VALUE

HRS 1994:
W15503      K4. Imputation Indicator
W5503       K4.VALUE OF TRANSPORTATI
W5504       K4a-K4c. Brackets

AHEAD 1995:
D4499       J51. TRANSPORTATION
D4500       J51A. TRANSPORTATION
D4502B      J51A. TRANSPORTATION/Bkt

HRS 1996:
E4500       J237.TRANSPORTATION
E4501       J238.TRANSPORTATION
E4502B      J238.TRANSPORTATION/Bkt

HRS 1998:
F5260       J237.TRANSPORTATION
F5261       J238.TRANSPORTATION
F5262B      J238. (J51A) TRANSPORTATION-Bkt

HRS 2000:
G5681       J237.TRANSPORTATION
G5682       J238.TRANSPORTATION
G5683       J238A. DK-5K
G5684       J238Y1A. DK-25000
G5685       J238B. DK-200000
G5686       J238Y1B. DK-25000
G5687       J238D. DK-5000

HRS 2002:
HQ370       TRANSPORTATION
HQ371       TRANSPORTATION TOTAL VALUE
HQ372       TRANSPORTATION TOTAL VALUE - MIN
HQ373       TRANSPORTATION TOTAL VALUE - MAX
HQ374       TRANSPORTATION TOTAL VALUE - RESULT
HU001       U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1     ASSET RECONCILIATION WHICH WRONG -1
HU002M2     ASSET RECONCILIATION WHICH WRONG -2
HU003       ASSET RECONCILIATION HOW MUCH
HU004       ASSET RECONCILIATION - MIN
HU005       ASSET RECONCILIATION - MAX
HU006       ASSET RECONCILIATION - RESULT
TYPASST     TYPE OF ASSETS

HRS 2004:
JQ370       TRANSPORTATION
JQ371       TRANSPORTATION TOTAL VALUE

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JQ372	TRANSPORTATION TOTAL VALUE - MIN
JQ373	TRANSPORTATION TOTAL VALUE - MAX
JQ374	TRANSPORTATION TOTAL VALUE - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ370	TRANSPORTATION
KQ371	TRANSPORTATION TOTAL VALUE
KQ372	TRANSPORTATION TOTAL VALUE - MIN
KQ373	TRANSPORTATION TOTAL VALUE - MAX
KQ374	TRANSPORTATION TOTAL VALUE - RESULT
KU001_4	ASSET RECONCILIATION-TRANSPORTATION
KU002_4	ASSET RECON WHICH WRONG-TRANSPORTATION
KU003_4A	ASSET RECON HOW MUCH -A-TRANSPORTATION
KU003_4B	ASSET RECONHOW MUCH-B-TRANSPORTATION
KU004_4A	ASSET RECON -MIN-A-TRANSPORTATION
KU004_4B	ASSET RECON -MIN-B-TRANSPORTATION
KU005_4A	ASSET RECON -MAX-A -TRANSPORTATION
KU005_4B	ASSET RECON -MAX-B -TRANSPORTATION
KU006_4A	ASSET RECON - RESULT-A-TRANSPORTATION
KU006_4B	ASSET RECON- RESULT-B-TRANSPORTATION
KU022_4A	WHICH WAVE WRONG-A-TRANSPORTATION
KU022_4B	WHICH WAVE WRONG-B-TRANSPORTATION
HRS 2008:	
LQ370	TRANSPORTATION

LQ371	TRANSPORTATION TOTAL VALUE
LQ372	TRANSPORTATION TOTAL VALUE - MIN
LQ373	TRANSPORTATION TOTAL VALUE - MAX
LQ374	TRANSPORTATION TOTAL VALUE - RESULT
LU001_4	ASSET RECONCILIATION-TRANSPORTATION
LU002_4	ASSET RECONCILIATION WHICH WRONG-TRANSPORTATION
LU003_4A	ASSET RECONCILIATION HOW MUCH -A-TRANSPORTATION
LU003_4B	ASSET RECONCILIATION HOW MUCH-B-TRANSPORTATION
LU004_4A	ASSET RECON -MIN-A-TRANSPORTATION
LU004_4B	ASSET RECON -MIN-B-TRANSPORTATION
LU005_4A	ASSET RECON -MAX-A -TRANSPORTATION
LU005_4B	ASSET RECON -MAX-B -TRANSPORTATION
LU006_4A	ASSET RECON - RESULT-A-TRANSPORTATION
LU006_4B	ASSET RECON- RESULT-B-TRANSPORTATION
LU022_4A	WHICH WAVE WRONG-A-TRANSPORTATION
LU022_4B	WHICH WAVE WRONG-B-TRANSPORTATION
HRS 2010:	
MQ370	TRANSPORTATION
MQ371	TRANSPORTATION TOTAL VALUE
MQ372	TRANSPORTATION TOTAL VALUE - MIN
MQ373	TRANSPORTATION TOTAL VALUE - MAX
MQ374	TRANSPORTATION TOTAL VALUE - RESULT
MU001_4	ASSET RECONCILIATION - TRANSPORTATION
MU002_4	ASSET RECONCILIATION - WHICH WRONG-TRANSPORTATION
MU003_4A	ASSET RECONCILIATION - HOW MUCH -A-TRANSPORTATION
MU003_4B	ASSET RECONCILIATION - HOW MUCH-B-TRANSPORTATION
MU004_4A	ASSET RECONCILIATION - MIN-A-TRANSPORTATION
MU004_4B	ASSET RECONCILIATION - MIN-B-TRANSPORTATION
MU005_4A	ASSET RECONCILIATION - MAX-A -TRANSPORTATION
MU005_4B	ASSET RECONCILIATION - MAX-B -TRANSPORTATION
MU006_4A	ASSET RECONCILIATION - RESULT-A-TRANSPORTATION
MU006_4B	ASSET RECONCILIATION - RESULT-B-TRANSPORTATION
MU022_4A	WHICH WAVE WRONG-A-TRANSPORTATION
MU022_4B	WHICH WAVE WRONG-B-TRANSPORTATION
HRS 2012:	
NQ370	TRANSPORTATION
NQ371	TRANSPORTATION TOTAL VALUE
NQ372	TRANSPORTATION TOTAL VALUE - MIN
NQ373	TRANSPORTATION TOTAL VALUE - MAX
NQ374	TRANSPORTATION TOTAL VALUE - RESULT
NU001_4	ASSET RECONCILIATION - TRANSPORTATION
NU002_4	ASSET RECONCILIATION - WHICH WRONG-TRANSPORTATION
NU003_4A	ASSET RECONCILIATION - HOW MUCH -A-TRANSPORTATION
NU003_4B	ASSET RECONCILIATION - HOW MUCH-B-TRANSPORTATION
NU004_4A	ASSET RECONCILIATION - MIN-A-TRANSPORTATION
NU004_4B	ASSET RECONCILIATION - MIN-B-TRANSPORTATION
NU005_4A	ASSET RECONCILIATION - MAX-A -TRANSPORTATION
NU005_4B	ASSET RECONCILIATION - MAX-B -TRANSPORTATION
NU006_4A	ASSET RECONCILIATION - RESULT-A-TRANSPORTATION
NU006_4B	ASSET RECONCILIATION - RESULT-B-TRANSPORTATION
NU022_4A	WHICH WAVE WRONG-A-TRANSPORTATION
NU022_4B	WHICH WAVE WRONG-B-TRANSPORTATION
HRS 2014:	
OQ370	TRANSPORTATION
OQ371	TRANSPORTATION TOTAL VALUE
OQ372	TRANSPORTATION TOTAL VALUE - MIN
OQ373	TRANSPORTATION TOTAL VALUE - MAX
OQ374	TRANSPORTATION TOTAL VALUE - RESULT
OU001_4	ASSET RECONCILIATION - TRANSPORTATION

OU002_4	ASSET RECONCILIATION - WHICH WRONG-TRANSPORTATION
OU003_4A	ASSET RECONCILIATION - HOW MUCH -A-TRANSPORTATION
OU003_4B	ASSET RECONCILIATION - HOW MUCH-B-TRANSPORTATION
OU004_4A	ASSET RECONCILIATION - MIN-A-TRANSPORTATION
OU004_4B	ASSET RECONCILIATION - MIN-B-TRANSPORTATION
OU005_4A	ASSET RECONCILIATION - MAX-A -TRANSPORTATION
OU005_4B	ASSET RECONCILIATION - MAX-B -TRANSPORTATION
OU006_4A	ASSET RECONCILIATION - RESULT-A-TRANSPORTATION
OU006_4B	ASSET RECONCILIATION - RESULT-B-TRANSPORTATION
OU022_4A	WHICH WAVE WRONG-A-TRANSPORTATION
OU022_4B	WHICH WAVE WRONG-B-TRANSPORTATION

<b>Net value of businesses</b>
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Wave	Variable	Label	Type
1	H1ABSNS	H1ABSNS:W1 Assets:Business--Cross-wave	Cont
2	H2ABSNS	H2ABSNS:W2 Assets:Business--Cross-wave	Cont
3	H3ABSNS	H3ABSNS:W3 Assets:Business--Cross-wave	Cont
4	H4ABSNS	H4ABSNS:W4 Assets:Business--Cross-wave	Cont
5	H5ABSNS	H5ABSNS:W5 Assets:Business--Cross-wave	Cont
6	H6ABSNS	H6ABSNS:W6 Assets:Business--Cross-wave	Cont
7	H7ABSNS	H7ABSNS:W7 Assets:Business--Cross-wave	Cont
8	H8ABSNS	H8ABSNS:W8 Assets:Business--Cross-wave	Cont
9	H9ABSNS	H9ABSNS:W9 Assets:Business--Cross-wave	Cont
10	H10ABSNS	H10ABSNS:W10 Assets:Business--Cross-wave	Cont
11	H11ABSNS	H11ABSNS:W11 Assets:Business--Cross-wave	Cont
12	H12ABSNS	H12ABSNS:W12 Assets:Business--Cross-wave	Cont
1	H1AFBSNS	H1AFBSNS:W1 Assets Flag:Business--Cross-wave	Categ
2	H2AFBSNS	H2AFBSNS:W2 Assets Flag:Business--Cross-wave	Categ
3	H3AFBSNS	H3AFBSNS:W3 Assets Flag:Business--Cross-wave	Categ
4	H4AFBSNS	H4AFBSNS:W4 Assets Flag:Business--Cross-wave	Categ
5	H5AFBSNS	H5AFBSNS:W5 Assets Flag:Business--Cross-wave	Categ
6	H6AFBSNS	H6AFBSNS:W6 Assets Flag:Business--Cross-wave	Categ
7	H7AFBSNS	H7AFBSNS:W7 Assets Flag:Business--Cross-wave	Categ
8	H8AFBSNS	H8AFBSNS:W8 Assets Flag:Business--Cross-wave	Categ
9	H9AFBSNS	H9AFBSNS:W9 Assets Flag:Business--Cross-wave	Categ
10	H10AFBSNS	H10AFBSNS:W10 Assets Flag:Business--Cross-wave	Categ
11	H11AFBSNS	H11AFBSNS:W11 Assets Flag:Business--Cross-wave	Categ
12	H12AFBSNS	H12AFBSNS:W12 Assets Flag:Business--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ABSNS	12652	35292.63	247214.50	-50000.0	7000000.0
H2ABSNS	19642	24360.31	209648.48	-8000.0	12874763.5
H3ABSNS	17991	29708.91	301238.06	0.0	15000000.0
H4ABSNS	21384	32550.70	622701.33	0.0	60000000.0
H5ABSNS	19579	31895.86	276659.90	0.0	12000000.0
H6ABSNS	18165	33853.76	275601.28	0.0	14000000.0
H7ABSNS	20129	46994.35	517743.94	0.0	30000000.0
H8ABSNS	18469	51463.08	507793.95	0.0	30000000.0
H9ABSNS	17217	49852.03	436419.29	0.0	20000000.0
H10ABSNS	22034	41042.19	365370.94	0.0	20000000.0
H11ABSNS	20554	46775.21	726891.27	0.0	65394254.6
H12ABSNS	18747	46376.18	451828.54	0.0	15508043.5
H1AFBSNS	12652	5.25	1.77	1.0	9.0
H2AFBSNS	19642	5.50	1.53	1.0	9.0
H3AFBSNS	17991	5.54	1.46	1.0	9.0
H4AFBSNS	21384	5.60	1.39	1.0	9.0
H5AFBSNS	19579	5.61	1.35	1.0	9.0
H6AFBSNS	18165	5.57	1.38	1.0	9.0
H7AFBSNS	20129	5.55	1.43	1.0	9.0
H8AFBSNS	18469	5.57	1.39	1.0	9.0
H9AFBSNS	17217	5.58	1.39	1.0	9.0
H10AFBSNS	22034	5.62	1.45	1.0	9.0
H11AFBSNS	20554	5.60	1.40	1.0	9.0
H12AFBSNS	18747	5.64	1.37	1.0	9.0

## Categorical Variable Codes

Value	H1AFBSNS	H2AFBSNS	H3AFBSNS	H4AFBSNS	H5AFBSNS	H6AFBSNS	H7AFBSNS
1.Continuous value	1514	1550	1349	1364	1209	1230	1459
2.Complete bracket	453	617	367	505	418	395	437
3.Incomplete bracket	22	19	110	39	54	20	50
4.Range card bracket	106						
5.No value/bracket	127	104	152	216	225	236	253
6.No asset	10291	17091	15825	18946	17447	16168	17764
7.DK ownership	44	84	62	143	102	71	79
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFBSNS	H9AFBSNS	H10AFBSNS	H11AFBSNS	H12AFBSNS
1.Continuous value	1323	1197	1586	1453	1236
2.Complete bracket	312	326	341	318	270
3.Incomplete bracket	38	38	49	42	39
5.No value/bracket	271	197	197	160	139
6.No asset	16409	15309	19321	18316	16766
7.DK ownership	53	76	143	96	98
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of businesses is assigned to HwABSNS. The HwAFBSNS variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The net value of businesses is asked at each wave. The question wording is similar at all waves, but the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any businesses and if so, the value of them.

In Waves 1 and 2A, the questions ask:

- "Do you [or your (husband/wife/partner)] own part or all of a business?"
- "If you sold (all of) the business(es) and paid off any debts on (it/them), how much would you get?"

In Wave 2H the wording of the first question changes slightly to include "farm":

a) "Do you [or your (husband/wife/partner)] own part or all of a farm or business?"

Beginning in Wave 3, the first question is almost identical to the Wave 2H version, and the second question adds the word "about":

a) "Do you (or your (husband/wife/partner)) own part or all of a business or farm?"

b) "If you sold all that and then paid off any debts on it, about how much would you get?"

Beginning in Wave 6, after the value of business or farm assets is collected, a question asks whether these assets were reported previously in the interview (e.g., HQ492). Beginning in Wave 9, a follow-up question was added which asks Respondents to indicate what percentage was previously reported (LQ523). For example, in Wave 9, about 30% of business owners indicate that they had reported their business wealth as one of the following: primary residence (which could be a farm or ranch), secondary residence, or other real estate earlier in the interview (LQ492 = yes). Of these business owners, most say that all of their business assets were previously reported (LQ523 = 100%).

The raw variables for these two questions are included in the RAND HRS Detailed Imputations File for the convenience of the analyst, and can be used for adjusting total wealth to reflect the amount of wealth that is twice reported. The variables are as follows:

Wave 6: HQ492

Wave 7: JQ492

Wave 8: KQ492

Wave 9: LQ492, LQ523

Wave 10: MQ492, MQ523

Wave 11: NQ492, NQ523

Wave 12: OQ492, OQ523

For the Q523 variables that are included in the RAND HRS Detailed Imputations File, we have recoded values of 998 and 999 to .D (Don't Know) and .R (Refuse), respectively. Since the answers to Q523 reflect percentages, using special missing codes in place of 998 and 999 will allow users to generate more accurate descriptive statistics, based on a maximum value of 100.

The RAND HRS Detailed Imputations File can be downloaded from the HRS web site. The raw variables for these two questions are also included with the RAND HRS Fat Files.

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

**HRS Variables Used**

HRS 1992:  
   V15208           M5:R/SP/PART OWN BUS:IND  
   V15209           M6:VALUE OF BUSINESS:IND  
   V5208            M5:R/SP/PART OWN BUS:IMP  
   V5209            M6:VALUE OF BUSINESS:IMP  
   V5210            M6: ORIGINAL BRACKETS  
 AHEAD 1993:  
   B1729            K5. OWN BUSINESS: ANY  
   B1730            K6. OWN BUSINESS: NET VALUE  
   B1730C           CATEG: K6. OWN BUSINESS: NET VALUE  
 HRS 1994:  
   W15505           K5. Imputation Indicator  
   W15506           K6. Imputation Indicator  
   W5505            K5.OWN FARM OR BUSINESS  
   W5506            K6.VALUE OF BUSINESS  
   W5507            K6a-K6c. Brackets  
 AHEAD 1995:  
   D4005            J17.BUSINESS  
   D4006            J18.BUSINESS OR FARM \$  
   D4010B           J18.BUSINESS OR FARM \$/Bkt  
 HRS 1996:  
   E4096            J83.OWN BUSINESS OR FARM  
   E4097            J84.BUSINESS OR FARM \$  
   E4098B           J84.BUSINESS OR FARM \$/Bkt  
 HRS 1998:  
   F4856            J83.BUSINESS  
   F4857            J84.BUSINESS OR FARM \$  
   F4858B           J84.(J18)BUSINESS OR FARM \$-Bkt  
 HRS 2000:  
   G5301            J83.BUSINESS  
   G5302            J84.BUSINESS OR FARM \$  
   G5303            J84A.DK-5K  
   G5304            J84B.DK-10K  
   G5305            J84C.DK-100K  
   G5306            J84D.DK-1 MIL  
   G5307            J84E.DK-10K  
   G5308            J84F.DK-5K  
 HRS 2002:  
   HQ147            BUSINESS OR FARM ASSETS  
   HQ148            BUSINESS OR FARM EQUITY AMOUNT  
   HQ149            BUSINESS OR FARM EQUITY - MIN  
   HQ150            BUSINESS OR FARM EQUITY - MAX  
   HQ151            BUSINESS OR FARM EQUITY - RESULT  
   HQ492            BUSINESS/FARM AMT PREV REPORT  
   HU001            U001A\_ASSET RECONCILIATION STEM QUESTION  
   HU002M1          ASSET RECONCILIATION WHICH WRONG -1  
   HU002M2          ASSET RECONCILIATION WHICH WRONG -2  
   HU003            ASSET RECONCILIATION HOW MUCH  
   HU004            ASSET RECONCILIATION - MIN  
   HU005            ASSET RECONCILIATION - MAX  
   HU006            ASSET RECONCILIATION - RESULT  
   TYPASST          TYPE OF ASSETS  
 HRS 2004:  
   JQ147            BUSINESS OR FARM ASSETS  
   JQ148            BUSINESS OR FARM EQUITY AMOUNT  
   JQ149            BUSINESS OR FARM EQUITY - MIN  
   JQ150            BUSINESS OR FARM EQUITY - MAX  
   JQ151            BUSINESS OR FARM EQUITY - RESULT

JQ492	BUSINESS/FARM AMT PREV REPORT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ147	BUSINESS OR FARM ASSETS
KQ148	BUSINESS OR FARM EQUITY AMOUNT
KQ149	BUSINESS OR FARM EQUITY - MIN
KQ150	BUSINESS OR FARM EQUITY - MAX
KQ151	BUSINESS OR FARM EQUITY - RESULT
KQ492	BUSINESS/FARM AMT PREV REPORT
KU001_10	ASSET RECONCILIATION-BUS/FARM
KU002_10	ASSET RECON WHICH WRONG-BUS/FARM
KU003_10A	ASSET RECON HOW MUCH -A-BUS/FARM
KU003_10B	ASSET RECON HOW MUCH-B-BUS/FARM
KU004_10A	ASSET RECON-MIN-A-BUS/FARM
KU004_10B	ASSET RECON -MIN-B-BUS/FARM
KU005_10A	ASSET RECON -MAX-A -BUS/FARM
KU005_10B	ASSET RECON -MAX-B -BUS/FARM
KU006_10A	ASSET RECON- RESULT-A-BUS/FARM
KU006_10B	ASSET RECON - RESULT-B-BUS/FARM
KU022_10A	WHICH WAVE WRONG-A-BUS/FARM
KU022_10B	WHICH WAVE WRONG-B-BUS/FARM
HRS 2008:	
LQ147	BUSINESS OR FARM ASSETS
LQ148	BUSINESS OR FARM EQUITY AMOUNT



LQ149	BUSINESS OR FARM EQUITY - MIN
LQ150	BUSINESS OR FARM EQUITY - MAX
LQ151	BUSINESS OR FARM EQUITY - RESULT
LQ492	BUSINESS/FARM AMT PREV REPORT
LQ523	BUSINESS/FARM PERCENT REPORTED
LU001_10	ASSET RECONCILIATION-BUS/FARM
LU002_10	ASSET RECONCILIATION WHICH WRONG-BUS/FARM
LU003_10A	ASSET RECONCILIATION HOW MUCH -A-BUS/FARM
LU003_10B	ASSET RECONCILIATION HOW MUCH-B-BUS/FARM
LU004_10A	ASSET RECON-MIN-A-BUS/FARM
LU004_10B	ASSET RECON -MIN-B-BUS/FARM
LU005_10A	ASSET RECON -MAX-A -BUS/FARM
LU005_10B	ASSET RECON -MAX-B -BUS/FARM
LU006_10A	ASSET RECON- RESULT-A-BUS/FARM
LU006_10B	ASSET RECON - RESULT-B-BUS/FARM
LU022_10A	WHICH WAVE WRONG-A-BUS/FARM
LU022_10B	WHICH WAVE WRONG-B-BUS/FARM
HRS 2010:	
MQ147	BUSINESS OR FARM ASSETS
MQ148	BUSINESS OR FARM EQUITY AMOUNT
MQ149	BUSINESS OR FARM EQUITY - MIN
MQ150	BUSINESS OR FARM EQUITY - MAX
MQ151	BUSINESS OR FARM EQUITY - RESULT
MQ492	BUSINESS/FARM AMT PREV REPORT
MU001_10	ASSET RECONCILIATION - BUS/FARM
MU002_10	ASSET RECONCILIATION - WHICH WRONG-BUS/FARM
MU003_10A	ASSET RECONCILIATION - HOW MUCH -A-BUS/FARM
MU003_10B	ASSET RECONCILIATION - HOW MUCH-B-BUS/FARM
MU004_10A	ASSET RECONCILIATION - MIN-A-BUS/FARM
MU004_10B	ASSET RECONCILIATION - MIN-B-BUS/FARM
MU005_10A	ASSET RECONCILIATION - MAX-A -BUS/FARM
MU005_10B	ASSET RECONCILIATION - MAX-B -BUS/FARM
MU006_10A	ASSET RECONCILIATION - RESULT-A-BUS/FARM
MU006_10B	ASSET RECONCILIATION - RESULT-B-BUS/FARM
MU022_10A	WHICH WAVE WRONG-A-BUS/FARM
MU022_10B	WHICH WAVE WRONG-B-BUS/FARM
HRS 2012:	
NQ147	BUSINESS OR FARM ASSETS
NQ148	BUSINESS OR FARM EQUITY AMOUNT
NQ149	BUSINESS OR FARM EQUITY - MIN
NQ150	BUSINESS OR FARM EQUITY - MAX
NQ151	BUSINESS OR FARM EQUITY - RESULT
NQ492	BUSINESS/FARM AMT PREV REPORT
NU001_10	ASSET RECONCILIATION - BUS/FARM
NU002_10	ASSET RECONCILIATION - WHICH WRONG-BUS/FARM
NU003_10A	ASSET RECONCILIATION - HOW MUCH -A-BUS/FARM
NU003_10B	ASSET RECONCILIATION - HOW MUCH-B-BUS/FARM
NU004_10A	ASSET RECONCILIATION - MIN-A-BUS/FARM
NU004_10B	ASSET RECONCILIATION - MIN-B-BUS/FARM
NU005_10A	ASSET RECONCILIATION - MAX-A -BUS/FARM
NU005_10B	ASSET RECONCILIATION - MAX-B -BUS/FARM
NU006_10A	ASSET RECONCILIATION - RESULT-A-BUS/FARM
NU006_10B	ASSET RECONCILIATION - RESULT-B-BUS/FARM
NU022_10A	WHICH WAVE WRONG-A-BUS/FARM
NU022_10B	WHICH WAVE WRONG-B-BUS/FARM
HRS 2014:	
OQ147	BUSINESS OR FARM ASSETS
OQ148	BUSINESS OR FARM EQUITY AMOUNT
OQ149	BUSINESS OR FARM EQUITY - MIN

OQ150	BUSINESS OR FARM EQUITY - MAX
OQ151	BUSINESS OR FARM EQUITY - RESULT
OQ492	BUSINESS/FARM AMT PREV REPORT
OU001_10	ASSET RECONCILIATION - BUS/FARM
OU002_10	ASSET RECONCILIATION - WHICH WRONG-BUS/FARM
OU003_10A	ASSET RECONCILIATION - HOW MUCH -A-BUS/FARM
OU003_10B	ASSET RECONCILIATION - HOW MUCH-B-BUS/FARM
OU004_10A	ASSET RECONCILIATION - MIN-A-BUS/FARM
OU004_10B	ASSET RECONCILIATION - MIN-B-BUS/FARM
OU005_10A	ASSET RECONCILIATION - MAX-A -BUS/FARM
OU005_10B	ASSET RECONCILIATION - MAX-B -BUS/FARM
OU006_10A	ASSET RECONCILIATION - RESULT-A-BUS/FARM
OU006_10B	ASSET RECONCILIATION - RESULT-B-BUS/FARM
OU022_10A	WHICH WAVE WRONG-A-BUS/FARM
OU022_10B	WHICH WAVE WRONG-B-BUS/FARM

### Net value of IRA, Keogh accounts

Wave	Variable	Label	Type
1	H1AIRA	H1AIRA:W1 Assets:IRA [total]--Cross-wave	Cont
2	H2AIRA	H2AIRA:W2 Assets:IRA [total]--Cross-wave	Cont
3	H3AIRA	H3AIRA:W3 Assets:IRA [total]--Cross-wave	Cont
4	H4AIRA	H4AIRA:W4 Assets:IRA [total]--Cross-wave	Cont
5	H5AIRA	H5AIRA:W5 Assets:IRA [total]--Cross-wave	Cont
6	H6AIRA	H6AIRA:W6 Assets:IRA [total]--Cross-wave	Cont
7	H7AIRA	H7AIRA:W7 Assets:IRA [total]--Cross-wave	Cont
8	H8AIRA	H8AIRA:W8 Assets:IRA [total]--Cross-wave	Cont
9	H9AIRA	H9AIRA:W9 Assets:IRA [total]--Cross-wave	Cont
10	H10AIRA	H10AIRA:W10 Assets:IRA [total]--Cross-wave	Cont
11	H11AIRA	H11AIRA:W11 Assets:IRA [total]--Cross-wave	Cont
12	H12AIRA	H12AIRA:W12 Assets:IRA [total]--Cross-wave	Cont
1	H1AFIRA	H1AFIRA:W1 Asst Flag: IRA [total]	Categ
2	H2AFIRA	H2AFIRA:W2 Asst Flag: IRA [total]	Categ
3	H3AFIRA	H3AFIRA:W3 Asst Flag: IRA [total]	Categ
4	H4AFIRA	H4AFIRA:W4 Asst Flag: IRA [total]	Categ
5	H5AFIRA	H5AFIRA:W5 Asst Flag: IRA [total]	Categ
6	H6AFIRA	H6AFIRA:W6 Asst Flag: IRA [total]	Categ
7	H7AFIRA	H7AFIRA:W7 Asst Flag: IRA [total]	Categ
8	H8AFIRA	H8AFIRA:W8 Asst Flag: IRA [total]	Categ
9	H9AFIRA	H9AFIRA:W9 Asst Flag: IRA [total]	Categ
10	H10AFIRA	H10AFIRA:W10 Asst Flag: IRA [total]	Categ
11	H11AFIRA	H11AFIRA:W11 Asst Flag: IRA [total]	Categ
12	H12AFIRA	H12AFIRA:W12 Asst Flag: IRA [total]	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AIRA	12652	17800.72	60156.47	0.0	2086291.6
H2AIRA	19642	20137.76	88006.04	0.0	5302143.1
H3AIRA	17991	27028.47	99257.70	0.0	2788503.2
H4AIRA	21384	39160.49	138838.19	0.0	5302336.2
H5AIRA	19579	52088.97	203601.95	0.0	12080000.0
H6AIRA	18165	47723.77	150567.39	0.0	3600000.0
H7AIRA	20129	51576.46	309519.28	0.0	35027000.0
H8AIRA	18469	66619.41	521840.02	0.0	43000000.0
H9AIRA	17217	65358.06	206095.51	0.0	5400000.0
H10AIRA	22034	56580.40	181214.98	0.0	4447281.8
H11AIRA	20554	61396.76	196440.10	0.0	5532444.6
H12AIRA	18747	73898.87	291500.97	0.0	17000000.0
H1AFIRA	12652	0.58	1.00	0.0	9.0
H2AFIRA	19642	0.49	1.03	0.0	9.0
H3AFIRA	17991	0.52	0.98	0.0	9.0
H4AFIRA	21384	0.57	1.03	0.0	9.0
H5AFIRA	19579	0.58	0.98	0.0	9.0
H6AFIRA	18165	0.55	0.84	0.0	9.0
H7AFIRA	20129	0.57	0.91	0.0	9.0
H8AFIRA	18469	0.56	0.87	0.0	9.0
H9AFIRA	17217	0.56	0.91	0.0	9.0
H10AFIRA	22034	0.64	1.33	0.0	9.0
H11AFIRA	20554	0.53	1.03	0.0	9.0
H12AFIRA	18747	0.56	1.11	0.0	9.0

## Categorical Variable Codes

Value	H1AFIRA	H2AFIRA	H3AFIRA	H4AFIRA	H5AFIRA	H6AFIRA	H7AFIRA
0.No asset	7478	12977	11605	13196	11790	11085	12094
1.No imputations	3685	4860	4365	5341	5098	4523	5198
2.Some imputation	1394	1628	1895	2676	2567	2512	2750
9.No Fin Resp	95	177	126	171	124	45	87

Value	H8AFIRA	H9AFIRA	H10AFIRA	H11AFIRA	H12AFIRA
0.No asset	11099	10359	13729	13337	12022
1.No imputations	4875	4511	5394	4733	4400
2.Some imputation	2433	2273	2514	2315	2126
9.No Fin Resp	62	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of IRA/Keogh is assigned to HwAIRA. HwAFIRA is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

In waves where questions ask about multiple IRA accounts, HwAIRA represents the sum of the values of all of them.

Users should note the following outliers:

1. HHIDPN: 12596010 reported a first IRA amount (OQ166\_1) of \$16,000,000 in Wave 12. Her/his spouse (HHIDPN: 12596040) will, therefore, also have this value recorded for the first IRA (H12AIRA1).
2. HHIDPN: 502208020 reported a third IRA amount (OQ166\_3) of \$1,011,000 in Wave 12. Her/his spouse (HHIDPN: 502208010) will, therefore, also have this value recorded for the third IRA (H12AIRA3).

## Cross Wave Differences in Original HRS Data

The net value of IRA and Keogh accounts is asked at each wave. Two questions reveal whether the Respondent owns any IRA or Keogh accounts and if so, the value of them.

In Waves 1 and 2, the total of all IRA accounts is requested in one question:

- a) "Do you [or your (husband/wife/partner)] have any Individual Retirement Accounts, that is, IRA or Keogh accounts?"

b) "How much in total is in all those accounts?"

Beginning in Wave 3, the questions ask about the three largest IRAs individually:

a) "Do you (or your (husband/wife/partner)) currently have any money or assets that are held in an Individual Retirement Account, that is, in an IRA or KEOGH account?"

b) "Let's talk about the (NEXT) largest IRA or KEOGH account/other IRA or KEOGH account/next largest IRA or KEOGH account/third IRA or KEOGH account/all the other IRA or KEOGH accounts. About how much is in this account at the present time?"

The second question is asked up to three times, depending on how many IRAs the Respondent reports. For each IRA, Respondents are also asked who the account belongs to, except in Wave 3, where this question is asked only for the first two IRAs. We do not use this information when creating the ownership variables (HwWOvar). Rather, if the Financial Respondent reports receiving an IRA, and that IRA does not belong to her/his spouse, both members of the couple will be flagged as owning the IRA.

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

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HRS 1992:
  V15212      M7:R/SP/PARTNR HAVE :IND
  V15213      M8:$VAL OF IRA ACCOU:IND
  V5212       M7:R/SP/PARTNR HAVE :IMP
  V5213       M8:$VAL OF IRA ACCOU:IMP
  V5214       M8: ORIGINAL BRACKETS
AHEAD 1993:
  B1734       K7. IRA: ANY
  B1735       K8. IRA: TOTAL VALUE
  B1735C      CATEG: K8. IRA: TOTAL VALUE
HRS 1994:
  W15508      K7. Imputation Indicator
  W15509      K8. Imputation Indicator
  W5508       K7.IRA OR KEOGH ACCOUNTS
  W5509       K8.AMOUNT IN IRA/KEOGHS
  W5510       K8a-K8d. Brackets
AHEAD 1995:
  D4045       J20.IRA
  D4046       J20A. NUMBER IRAS
  D4048       J21.TOTAL $ IRA ACCOUNT
  D4052B      J21.TOTAL $ IRA ACCOUNT/Bkt
  D4089       J21.INTRO IRA ACCOUNT-2
  D4090       J22.TOTAL $ IRA ACCOUNT-2
  D4093B      J22.TOTAL $ IRA ACCOUNT-2/Bkt
  D4129       J22.TOTAL $ IRA ACCOUNT-3
  D4132B      J22.TOTAL $ IRA ACCOUNT-3/Bkt
HRS 1996:
  E4124       J90.IRA
  E4125       J91.NUMBER IRAS
  E4127       J93.TOTAL $ IRA ACCOUNT

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E4130B	J93.TOTAL \$ IRA ACCOUNT/Bkt
E4148	J99.INTRO IRA ACCOUNT-2
E4149	J100.TOTAL \$ IRA ACCOUNT-2
E4152B	J100.TOTAL \$ IRA ACCOUNT-2/Bkt
E4171	J107.TOTAL \$ IRA ACCOUNT-3
E4172B	J107.TOTAL \$ IRA ACCOUNT-3/Bkt
HRS 1998:	
F4884	J90.IRA
F4887	J93.TOTAL \$ IRA ACCOUNT
F4889B	J93.(J22-2)TOTAL \$ IRA ACCOUNT-Bkt
F4908	J99.INTRO IRA ACCOUNT-2
F4909	J100.TOTAL \$ IRA ACCOUNT-2
F4910B	J100.(J22-2)TOTAL \$ IRA ACCOUNT-2-Bkt
F4929	J106.INTRO IRA-3
F4930	J107.TOTAL \$ IRA ACCOUNT-3
F4931B	J107.(J22-3)TOTAL \$ IRA ACCOUNT-3-Bkt
HRS 2000:	
G5329	J90.IRA
G5332	J93.TOTAL \$ IRA ACCOUNT
G5334	J93A.IRA DK-\$10K
G5335	J93Y1A.IRA DK-\$25K
G5336	J93B.IRA DK-\$100K
G5338	J93C.IRA DK-\$400K
G5339	J93Y2A.IRA DK-\$25K
G5340	J93D.IRA DK-\$10K
G5353	J99.INTRO IRA ACCOUNT-2
G5354	J100.TOTAL \$ IRA ACCOUNT-2
G5355	J100A.IRA DK-\$10K
G5356	J100Y1A.IRA DK-\$25K
G5357	J100B.IRA DK-\$100K
G5359	J100C.IRA DK-\$400K
G5360	J100Y2A.IRA DK-\$25K
G5361	J100D.IRA DK-\$10K
G5374	J106.INTRO IRA-3
G5375	J107.TOTAL \$ IRA ACCOUNT-3
G5376	J107A.IRA DK-\$10K
G5377	J107Y1A.IRA DK-\$25K
G5378	J107B.IRA DK-\$100K
G5379	J107C.IRA DK-\$400K
G5380	J107Y2A.IRA DK-\$25K
G5381	J107D.IRA DK-\$10K
HRS 2002:	
HQ162	IRA OR KEOGH
HQ165_1	WHO HAS IRA ACCOUNTS -1
HQ165_2	WHO HAS IRA ACCOUNTS -2
HQ165_3	WHO HAS IRA ACCOUNTS -3
HQ166_1	AMOUNT IN IRA ACCOUNT -1
HQ166_2	AMOUNT IN IRA ACCOUNT -2
HQ166_3	AMOUNT IN IRA ACCOUNT -3
HQ167_1	AMT IN IRA ACCOUNT - MIN -1
HQ167_2	AMT IN IRA ACCOUNT - MIN -2
HQ167_3	AMT IN IRA ACCOUNT - MIN -3
HQ168_1	AMT IN IRA ACCOUNT - MAX -1
HQ168_2	AMT IN IRA ACCOUNT - MAX -2
HQ168_3	AMT IN IRA ACCOUNT - MAX -3
HQ169_1	AMT IN IRA ACCOUNT - RESULT -1
HQ169_2	AMT IN IRA ACCOUNT - RESULT -2
HQ169_3	AMT IN IRA ACCOUNT - RESULT -3
HU001	U001A_ASSET RECONCILIATION STEM QUESTION

HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ162	IRA OR KEOGH
JQ165_1	WHO HAS IRA ACCOUNTS -1
JQ165_2	WHO HAS IRA ACCOUNTS -2
JQ165_3	WHO HAS IRA ACCOUNTS -3
JQ166_1	AMOUNT IN IRA ACCOUNT -1
JQ166_2	AMOUNT IN IRA ACCOUNT -2
JQ166_3	AMOUNT IN IRA ACCOUNT -3
JQ167_1	AMT IN IRA ACCOUNT - MIN -1
JQ167_2	AMT IN IRA ACCOUNT - MIN -2
JQ167_3	AMT IN IRA ACCOUNT - MIN -3
JQ168_1	AMT IN IRA ACCOUNT - MAX -1
JQ168_2	AMT IN IRA ACCOUNT - MAX -2
JQ168_3	AMT IN IRA ACCOUNT - MAX -3
JQ169_1	AMT IN IRA ACCOUNT - RESULT -1
JQ169_2	AMT IN IRA ACCOUNT - RESULT -2
JQ169_3	AMT IN IRA ACCOUNT - RESULT -3
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2

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JU022A_3      PREV WAVE VALUE YEAR-3
HRS 2006:
KQ162         IRA OR KEOGH
KQ165_1       WHO HAS IRA ACCOUNTS -1
KQ165_2       WHO HAS IRA ACCOUNTS -2
KQ165_3       WHO HAS IRA ACCOUNTS -3
KQ166_1       AMOUNT IN IRA ACCOUNT -1
KQ166_2       AMOUNT IN IRA ACCOUNT -2
KQ166_3       AMOUNT IN IRA ACCOUNT -3
KQ167_1       AMT IN IRA ACCOUNT - MIN -1
KQ167_2       AMT IN IRA ACCOUNT - MIN -2
KQ167_3       AMT IN IRA ACCOUNT - MIN -3
KQ168_1       AMT IN IRA ACCOUNT - MAX -1
KQ168_2       AMT IN IRA ACCOUNT - MAX -2
KQ168_3       AMT IN IRA ACCOUNT - MAX -3
KQ169_1       AMT IN IRA ACCOUNT - RESULT -1
KQ169_2       AMT IN IRA ACCOUNT - RESULT -2
KQ169_3       AMT IN IRA ACCOUNT - RESULT -3
KU001_9       ASSET RECONCILIATION-IRA
KU002_9       ASSET RECONCILIATION WHICH WRONG-IRA
KU003_9A      ASSET RECONCILIATION HOW MUCH -A-IRA
KU003_9B      ASSET RECONCILIATION HOW MUCH-B-IRA
KU004_9A      ASSET RECONCILIATION -MIN-A-IRA
KU004_9B      ASSET RECONCILIATION -MIN-B-IRA
KU005_9A      ASSET RECONCILIATION -MAX-A -IRA
KU005_9B      ASSET RECONCILIATION -MAX-B -IRA
KU006_9A      ASSET RECONCILIATION - RESULT-A-IRA
KU006_9B      ASSET RECONCILIATION - RESULT-B-IRA
KU022_9A      WHICH WAVE VALUE WAS WRONG-A-IRA
KU022_9B      WHICH WAVE VALUE WAS WRONG-B-IRA
HRS 2008:
LQ162         IRA OR KEOGH
LQ165_1       WHO HAS IRA ACCOUNTS -1
LQ165_2       WHO HAS IRA ACCOUNTS -2
LQ165_3       WHO HAS IRA ACCOUNTS -3
LQ166_1       AMOUNT IN IRA ACCOUNT -1
LQ166_2       AMOUNT IN IRA ACCOUNT -2
LQ166_3       AMOUNT IN IRA ACCOUNT -3
LQ167_1       AMT IN IRA ACCOUNT - MIN -1
LQ167_2       AMT IN IRA ACCOUNT - MIN -2
LQ167_3       AMT IN IRA ACCOUNT - MIN -3
LQ168_1       AMT IN IRA ACCOUNT - MAX -1
LQ168_2       AMT IN IRA ACCOUNT - MAX -2
LQ168_3       AMT IN IRA ACCOUNT - MAX -3
LQ169_1       AMT IN IRA ACCOUNT - RESULT -1
LQ169_2       AMT IN IRA ACCOUNT - RESULT -2
LQ169_3       AMT IN IRA ACCOUNT - RESULT -3
LU001_9       ASSET RECONCILIATION-IRA
LU002_9       ASSET RECONCILIATION WHICH WRONG-IRA
LU003_9A      ASSET RECONCILIATION HOW MUCH -A-IRA
LU003_9B      ASSET RECONCILIATION HOW MUCH-B-IRA
LU004_9A      ASSET RECONCILIATION -MIN-A-IRA
LU004_9B      ASSET RECONCILIATION -MIN-B-IRA
LU005_9A      ASSET RECONCILIATION -MAX-A -IRA
LU005_9B      ASSET RECONCILIATION -MAX-B -IRA
LU006_9A      ASSET RECONCILIATION - RESULT-A-IRA
LU006_9B      ASSET RECONCILIATION - RESULT-B-IRA
LU022_9A      WHICH WAVE WRONG-A-IRA
LU022_9B      WHICH WAVE VALUE WAS WRONG-B-IRA

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## HRS 2010:

MQ162 IRA OR KEOGH  
 MQ165\_1 WHO HAS IRA ACCOUNTS -1  
 MQ165\_2 WHO HAS IRA ACCOUNTS -2  
 MQ165\_3 WHO HAS IRA ACCOUNTS -3  
 MQ166\_1 AMOUNT IN IRA ACCOUNT -1  
 MQ166\_2 AMOUNT IN IRA ACCOUNT -2  
 MQ166\_3 AMOUNT IN IRA ACCOUNT -3  
 MQ167\_1 AMT IN IRA ACCOUNT - MIN -1  
 MQ167\_2 AMT IN IRA ACCOUNT - MIN -2  
 MQ167\_3 AMT IN IRA ACCOUNT - MIN -3  
 MQ168\_1 AMT IN IRA ACCOUNT - MAX -1  
 MQ168\_2 AMT IN IRA ACCOUNT - MAX -2  
 MQ168\_3 AMT IN IRA ACCOUNT - MAX -3  
 MQ169\_1 AMT IN IRA ACCOUNT - RESULT -1  
 MQ169\_2 AMT IN IRA ACCOUNT - RESULT -2  
 MQ169\_3 AMT IN IRA ACCOUNT - RESULT -3  
 MU001\_9 ASSET RECONCILIATION - IRA  
 MU002\_9 ASSET RECONCILIATION - WHICH WRONG-IRA  
 MU003\_9A ASSET RECONCILIATION - HOW MUCH -A-IRA  
 MU003\_9B ASSET RECONCILIATION - HOW MUCH-B-IRA  
 MU004\_9A ASSET RECONCILIATION - MIN-A-IRA  
 MU004\_9B ASSET RECONCILIATION - MIN-B-IRA  
 MU005\_9A ASSET RECONCILIATION - MAX-A -IRA  
 MU005\_9B ASSET RECONCILIATION - MAX-B -IRA  
 MU006\_9A ASSET RECONCILIATION - RESULT-A-IRA  
 MU006\_9B ASSET RECONCILIATION - RESULT-B-IRA  
 MU022\_9A WHICH WAVE WRONG-A-IRA  
 MU022\_9B WHICH WAVE VALUE WAS WRONG-B-IRA

## HRS 2012:

NQ162 IRA OR KEOGH  
 NQ165\_1 WHO HAS IRA ACCOUNTS -1  
 NQ165\_2 WHO HAS IRA ACCOUNTS -2  
 NQ165\_3 WHO HAS IRA ACCOUNTS -3  
 NQ166\_1 AMOUNT IN IRA ACCOUNT -1  
 NQ166\_2 AMOUNT IN IRA ACCOUNT -2  
 NQ166\_3 AMOUNT IN IRA ACCOUNT -3  
 NQ167\_1 AMT IN IRA ACCOUNT - MIN -1  
 NQ167\_2 AMT IN IRA ACCOUNT - MIN -2  
 NQ167\_3 AMT IN IRA ACCOUNT - MIN -3  
 NQ168\_1 AMT IN IRA ACCOUNT - MAX -1  
 NQ168\_2 AMT IN IRA ACCOUNT - MAX -2  
 NQ168\_3 AMT IN IRA ACCOUNT - MAX -3  
 NQ169\_1 AMT IN IRA ACCOUNT - RESULT -1  
 NQ169\_2 AMT IN IRA ACCOUNT - RESULT -2  
 NQ169\_3 AMT IN IRA ACCOUNT - RESULT -3  
 NU001\_9 ASSET RECONCILIATION - IRA  
 NU002\_9 ASSET RECONCILIATION - WHICH WRONG-IRA  
 NU003\_9A ASSET RECONCILIATION - HOW MUCH -A-IRA  
 NU003\_9B ASSET RECONCILIATION - HOW MUCH-B-IRA  
 NU004\_9A ASSET RECONCILIATION - MIN-A-IRA  
 NU004\_9B ASSET RECONCILIATION - MIN-B-IRA  
 NU005\_9A ASSET RECONCILIATION - MAX-A -IRA  
 NU005\_9B ASSET RECONCILIATION - MAX-B -IRA  
 NU006\_9A ASSET RECONCILIATION - RESULT-A-IRA  
 NU006\_9B ASSET RECONCILIATION - RESULT-B-IRA  
 NU022\_9A WHICH WAVE WRONG-A-IRA  
 NU022\_9B WHICH WAVE VALUE WAS WRONG-B-IRA

## HRS 2014:

OQ162	IRA OR KEOGH
OQ165_1	WHO HAS IRA ACCOUNTS -1
OQ165_2	WHO HAS IRA ACCOUNTS -2
OQ165_3	WHO HAS IRA ACCOUNTS -3
OQ166_1	AMOUNT IN IRA ACCOUNT -1
OQ166_2	AMOUNT IN IRA ACCOUNT -2
OQ166_3	AMOUNT IN IRA ACCOUNT -3
OQ167_1	AMT IN IRA ACCOUNT - MIN -1
OQ167_2	AMT IN IRA ACCOUNT - MIN -2
OQ167_3	AMT IN IRA ACCOUNT - MIN -3
OQ168_1	AMT IN IRA ACCOUNT - MAX -1
OQ168_2	AMT IN IRA ACCOUNT - MAX -2
OQ168_3	AMT IN IRA ACCOUNT - MAX -3
OQ169_1	AMT IN IRA ACCOUNT - RESULT -1
OQ169_2	AMT IN IRA ACCOUNT - RESULT -2
OQ169_3	AMT IN IRA ACCOUNT - RESULT -3
OU001_9	ASSET RECONCILIATION - IRA
OU002_9	ASSET RECONCILIATION - WHICH WRONG-IRA
OU003_9A	ASSET RECONCILIATION - HOW MUCH -A-IRA
OU003_9B	ASSET RECONCILIATION - HOW MUCH-B-IRA
OU004_9A	ASSET RECONCILIATION - MIN-A-IRA
OU004_9B	ASSET RECONCILIATION - MIN-B-IRA
OU005_9A	ASSET RECONCILIATION - MAX-A -IRA
OU005_9B	ASSET RECONCILIATION - MAX-B -IRA
OU006_9A	ASSET RECONCILIATION - RESULT-A-IRA
OU006_9B	ASSET RECONCILIATION - RESULT-B-IRA
OU022_9A	WHICH WAVE WRONG-A-IRA
OU022_9B	WHICH WAVE VALUE WAS WRONG-B-IRA

### Net value of stocks, mutual funds, and investment trusts

Wave	Variable	Label	Type
1	H1ASTCK	H1ASTCK:W1 Assets:Stocks--Cross-wave	Cont
2	H2ASTCK	H2ASTCK:W2 Assets:Stocks--Cross-wave	Cont
3	H3ASTCK	H3ASTCK:W3 Assets:Stocks--Cross-wave	Cont
4	H4ASTCK	H4ASTCK:W4 Assets:Stocks--Cross-wave	Cont
5	H5ASTCK	H5ASTCK:W5 Assets:Stocks--Cross-wave	Cont
6	H6ASTCK	H6ASTCK:W6 Assets:Stocks--Cross-wave	Cont
7	H7ASTCK	H7ASTCK:W7 Assets:Stocks--Cross-wave	Cont
8	H8ASTCK	H8ASTCK:W8 Assets:Stocks--Cross-wave	Cont
9	H9ASTCK	H9ASTCK:W9 Assets:Stocks--Cross-wave	Cont
10	H10ASTCK	H10ASTCK:W10 Assets:Stocks--Cross-wave	Cont
11	H11ASTCK	H11ASTCK:W11 Assets:Stocks--Cross-wave	Cont
12	H12ASTCK	H12ASTCK:W12 Assets:Stocks--Cross-wave	Cont
1	H1AFSTCK	H1AFSTCK:W1 Assets Flag:Stocks--Cross-wave	Categ
2	H2AFSTCK	H2AFSTCK:W2 Assets Flag:Stocks--Cross-wave	Categ
3	H3AFSTCK	H3AFSTCK:W3 Assets Flag:Stocks--Cross-wave	Categ
4	H4AFSTCK	H4AFSTCK:W4 Assets Flag:Stocks--Cross-wave	Categ
5	H5AFSTCK	H5AFSTCK:W5 Assets Flag:Stocks--Cross-wave	Categ
6	H6AFSTCK	H6AFSTCK:W6 Assets Flag:Stocks--Cross-wave	Categ
7	H7AFSTCK	H7AFSTCK:W7 Assets Flag:Stocks--Cross-wave	Categ
8	H8AFSTCK	H8AFSTCK:W8 Assets Flag:Stocks--Cross-wave	Categ
9	H9AFSTCK	H9AFSTCK:W9 Assets Flag:Stocks--Cross-wave	Categ
10	H10AFSTCK	H10AFSTCK:W10 Assets Flag:Stocks--Cross-wave	Categ
11	H11AFSTCK	H11AFSTCK:W11 Assets Flag:Stocks--Cross-wave	Categ
12	H12AFSTCK	H12AFSTCK:W12 Assets Flag:Stocks--Cross-wave	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ASTCK	12652	19297.33	108347.06	0.0	5863940.1
H2ASTCK	19642	26613.57	161977.27	-9500.0	6741359.6
H3ASTCK	17991	47844.89	459408.31	0.0	40000000.0
H4ASTCK	21384	55248.90	367217.38	0.0	30000000.0
H5ASTCK	19579	67690.91	402762.05	0.0	30000000.0
H6ASTCK	18165	55176.59	229591.84	0.0	12000000.0
H7ASTCK	20129	66376.10	444818.50	0.0	25000000.0
H8ASTCK	18469	78006.57	572588.20	0.0	30000000.0
H9ASTCK	17217	69790.11	364187.97	0.0	20452991.1
H10ASTCK	22034	55908.22	346315.50	0.0	20000000.0
H11ASTCK	20554	62088.95	565178.94	0.0	42300000.0
H12ASTCK	18747	80867.85	1486477.08	0.0	190000000.0
H1AFSTCK	12652	4.79	2.10	1.0	9.0
H2AFSTCK	19642	4.85	2.09	1.0	9.0
H3AFSTCK	17991	4.69	2.14	1.0	9.0
H4AFSTCK	21384	4.71	2.15	1.0	9.0
H5AFSTCK	19579	4.66	2.16	1.0	9.0
H6AFSTCK	18165	4.70	2.14	1.0	9.0
H7AFSTCK	20129	4.73	2.13	1.0	9.0
H8AFSTCK	18469	4.85	2.07	1.0	9.0
H9AFSTCK	17217	4.92	2.03	1.0	9.0
H10AFSTCK	22034	5.11	1.99	1.0	9.0
H11AFSTCK	20554	5.16	1.89	1.0	9.0
H12AFSTCK	18747	5.17	1.90	1.0	9.0

## Categorical Variable Codes

Value	H1AFSTCK	H2AFSTCK	H3AFSTCK	H4AFSTCK	H5AFSTCK	H6AFSTCK	H7AFSTCK
1.Continuous value	2438	3453	3604	4208	4092	3734	4143
2.Complete bracket	676	1371	1074	1554	1290	1116	1117
3.Incomplete bracket	68	116	512	184	173	108	96
4.Range card bracket	196						
5.No value/bracket	207	324	390	713	809	806	795
6.No asset	8874	13919	12043	14129	12721	11914	13519
7.DK ownership	98	282	242	425	370	442	372
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFSTCK	H9AFSTCK	H10AFSTCK	H11AFSTCK	H12AFSTCK
1.Continuous value	3552	3072	3509	2987	2742
2.Complete bracket	802	755	723	647	528
3.Incomplete bracket	88	85	115	81	104
5.No value/bracket	614	517	453	419	352
6.No asset	13014	12394	16387	15842	14420
7.DK ownership	336	320	450	409	402
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of stocks and mutual funds is assigned to HwASTCK. The HwAFSTCK variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

Users should note the following outliers:

1. HHIDPN: 529220010 reported having stock assets (OQ317) worth \$190,000,000 in Wave 12. The accuracy of this amount has been confirmed by HRS.

## Cross Wave Differences in Original HRS Data

The net value of stocks and mutual funds is asked at each wave. The question wording changes some after Wave 1, and the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any stocks or mutual funds and if so, the value of them.

In Wave 1, the questions ask:

a) "For the next few questions, please exclude any assets held in the form of IRA and Keogh accounts. Do you [or your (husband/wife/partner)] have any shares of stock in publicly held corporations, mutual funds, or investment trusts?"

b) "If you sold all that and paid off anything you owed on it, how much would you have?"

Beginning in Wave 2, the first question changes to:

a) "(Aside from anything you have already told me about...) Do you [or your (husband/wife/partner)] have any shares of stock or stock mutual funds?"

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

HRS 1992:	
V15217	M10:STCK/MUT FND/TRU:IND
V15218	M11:\$ VAL OF INVESTM:IND
V5217	M10:STCK/MUT FND/TRU:IMP
V5218	M11:\$ VAL OF INVESTM:IMP
V5219	M11:ORIGINAL BRACKETS
AHEAD 1993:	
B1743	K10. STOCK/MUTUAL FUNDS: ANY
B1744	K11. STOCK/MUTUAL FUNDS: NET VALUE
B1744C	CATEG: K11. STOCK/MUTUAL FUNDS
HRS 1994:	
W15511	K9. Imputation Indicator
W15512	K10. Imputation Indicato
W5511	K9.OWN STOCKS/STOCK MUTU
W5512	K10.VALUE OF STOCKS
W5513	K10a-K10d. Brackets
AHEAD 1995:	
D4338	J36.STOCK ASSETS
D4339	J37.TOTAL \$ STOCKS
D4343B	J37.TOTAL \$ STOCKS/Bkt
HRS 1996:	
E4339	J207.STOCK ASSETS
E4340	J208.TOTAL \$ STOCKS
E4341B	J208.TOTAL \$ STOCKS/Bkt
HRS 1998:	
F5099	J207.STOCK ASSETS
F5100	J208.TOTAL \$ STOCKS
F5101B	J208.(J37)TOTAL \$ STOCKS-Bkt
HRS 2000:	
G5554	J207.STOCK ASSETS
G5555	J208.TOTAL \$ STOCKS
G5556	J208A. DK-2500
G5557	J208Y1A. DK-\$25K
G5558	J208B. DK-\$125K
G5559	J208C. DK-\$400K
G5560	J208Y2A. DK-\$25K
G5561	J208D. DK-2500
HRS 2002:	
HQ316	STOCK AND STOCK MUTUAL FUNDS
HQ317	STOCKS TOTAL VALUE

HQ318	STOCKS TOTAL VALUE - MIN
HQ319	STOCKS TOTAL VALUE - MAX
HQ320	STOCKS TOTAL VALUE - RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ316	STOCK AND STOCK MUTUAL FUNDS
JQ317	STOCKS TOTAL VALUE
JQ318	STOCKS TOTAL VALUE - MIN
JQ319	STOCKS TOTAL VALUE - MAX
JQ320	STOCKS TOTAL VALUE - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ316	STOCK AND STOCK MUTUAL FUNDS
KQ317	STOCKS TOTAL VALUE
KQ318	STOCKS TOTAL VALUE - MIN
KQ319	STOCKS TOTAL VALUE - MAX
KQ320	STOCKS TOTAL VALUE - RESULT

KU001_8	ASSET RECONCILIATION-STOCK
KU002_8	ASSET RECON WHICH WRONG-STOCK
KU003_8A	ASSET RECON HOW MUCH -A-STOCK
KU003_8B	ASSET RECON HOW MUCH-B-STOCK
KU004_8A	ASSET RECON -MIN-A-STOCK
KU004_8B	ASSET RECON-MIN-B-STOCK
KU005_8A	ASSET RECON-MAX-A -STOCK
KU005_8B	ASSET RECON-MAX-B -STOCK
KU006_8A	ASSET RECON - RESULT-A-STOCK
KU006_8B	ASSET RECON- RESULT-B-STOCK
KU022_8A	WHICH WAVE WRONG-A-STOCK
KU022_8B	WHICH WAVE WRONG-B-STOCK
HRS 2008:	
LQ316	STOCK AND STOCK MUTUAL FUNDS
LQ317	STOCKS TOTAL VALUE
LQ318	STOCKS TOTAL VALUE - MIN
LQ319	STOCKS TOTAL VALUE - MAX
LQ320	STOCKS TOTAL VALUE - RESULT
LU001_8	ASSET RECONCILIATION-STOCK
LU002_8	ASSET RECONCILIATION WHICH WRONG-STOCK
LU003_8A	ASSET RECONCILIATION HOW MUCH -A-STOCK
LU003_8B	ASSET RECONCILIATION HOW MUCH-B-STOCK
LU004_8A	ASSET RECON -MIN-A-STOCK
LU004_8B	ASSET RECON-MIN-B-STOCK
LU005_8A	ASSET RECON-MAX-A -STOCK
LU005_8B	ASSET RECON-MAX-B -STOCK
LU006_8A	ASSET RECON - RESULT-A-STOCK
LU006_8B	ASSET RECON- RESULT-B-STOCK
LU022_8A	WHICH WAVE WRONG-A-STOCK
LU022_8B	WHICH WAVE WRONG-B-STOCK
HRS 2010:	
MQ316	STOCK AND STOCK MUTUAL FUNDS
MQ317	STOCKS TOTAL VALUE
MQ318	STOCKS TOTAL VALUE - MIN
MQ319	STOCKS TOTAL VALUE - MAX
MQ320	STOCKS TOTAL VALUE - RESULT
MU001_8	ASSET RECONCILIATION - STOCK
MU002_8	ASSET RECONCILIATION - WHICH WRONG-STOCK
MU003_8A	ASSET RECONCILIATION - HOW MUCH -A-STOCK
MU003_8B	ASSET RECONCILIATION - HOW MUCH-B-STOCK
MU004_8A	ASSET RECONCILIATION - MIN-A-STOCK
MU004_8B	ASSET RECONCILIATION - MIN-B-STOCK
MU005_8A	ASSET RECONCILIATION - MAX-A -STOCK
MU005_8B	ASSET RECONCILIATION - MAX-B -STOCK
MU006_8A	ASSET RECONCILIATION - RESULT-A-STOCK
MU006_8B	ASSET RECONCILIATION - RESULT-B-STOCK
MU022_8A	WHICH WAVE WRONG-A-STOCK
MU022_8B	WHICH WAVE WRONG-B-STOCK
HRS 2012:	
NQ316	STOCK AND STOCK MUTUAL FUNDS
NQ317	STOCKS TOTAL VALUE
NQ318	STOCKS TOTAL VALUE - MIN
NQ319	STOCKS TOTAL VALUE - MAX
NQ320	STOCKS TOTAL VALUE - RESULT
NU001_8	ASSET RECONCILIATION - STOCK
NU002_8	ASSET RECONCILIATION - WHICH WRONG-STOCK
NU003_8A	ASSET RECONCILIATION - HOW MUCH -A-STOCK
NU003_8B	ASSET RECONCILIATION - HOW MUCH-B-STOCK
NU004_8A	ASSET RECONCILIATION - MIN-A-STOCK

NU004_8B	ASSET RECONCILIATION - MIN-B-STOCK
NU005_8A	ASSET RECONCILIATION - MAX-A -STOCK
NU005_8B	ASSET RECONCILIATION - MAX-B -STOCK
NU006_8A	ASSET RECONCILIATION - RESULT-A-STOCK
NU006_8B	ASSET RECONCILIATION - RESULT-B-STOCK
NU022_8A	WHICH WAVE WRONG-A-STOCK
NU022_8B	WHICH WAVE WRONG-B-STOCK
HRS 2014:	
OQ316	STOCK AND STOCK MUTUAL FUNDS
OQ317	STOCKS TOTAL VALUE
OQ318	STOCKS TOTAL VALUE - MIN
OQ319	STOCKS TOTAL VALUE - MAX
OQ320	STOCKS TOTAL VALUE - RESULT
OU001_8	ASSET RECONCILIATION - STOCK
OU002_8	ASSET RECONCILIATION - WHICH WRONG-STOCK
OU003_8A	ASSET RECONCILIATION - HOW MUCH -A-STOCK
OU003_8B	ASSET RECONCILIATION - HOW MUCH-B-STOCK
OU004_8A	ASSET RECONCILIATION - MIN-A-STOCK
OU004_8B	ASSET RECONCILIATION - MIN-B-STOCK
OU005_8A	ASSET RECONCILIATION - MAX-A -STOCK
OU005_8B	ASSET RECONCILIATION - MAX-B -STOCK
OU006_8A	ASSET RECONCILIATION - RESULT-A-STOCK
OU006_8B	ASSET RECONCILIATION - RESULT-B-STOCK
OU022_8A	WHICH WAVE WRONG-A-STOCK
OU022_8B	WHICH WAVE WRONG-B-STOCK



<b>Value of checking, savings, or money market accounts</b>
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Wave	Variable	Label	Type
1	H1ACHCK	H1ACHCK:W1 Assets:Checking,Savings Acct--Cross-wave	Cont
2	H2ACHCK	H2ACHCK:W2 Assets:Checking,Savings Acct--Cross-wave	Cont
3	H3ACHCK	H3ACHCK:W3 Assets:Checking,Savings Acct--Cross-wave	Cont
4	H4ACHCK	H4ACHCK:W4 Assets:Checking,Savings Acct--Cross-wave	Cont
5	H5ACHCK	H5ACHCK:W5 Assets:Checking,Savings Acct--Cross-wave	Cont
6	H6ACHCK	H6ACHCK:W6 Assets:Checking,Savings Acct--Cross-wave	Cont
7	H7ACHCK	H7ACHCK:W7 Assets:Checking,Savings Acct--Cross-wave	Cont
8	H8ACHCK	H8ACHCK:W8 Assets:Checking,Savings Acct--Cross-wave	Cont
9	H9ACHCK	H9ACHCK:W9 Assets:Checking,Savings Acct--Cross-wave	Cont
10	H10ACHCK	H10ACHCK:W10 Assets:Checking,Savings Acct--Cross-wave	Cont
11	H11ACHCK	H11ACHCK:W11 Assets:Checking,Savings Acct--Cross-wave	Cont
12	H12ACHCK	H12ACHCK:W12 Assets:Checking,Savings Acct--Cross-wave	Cont
1	H1AFCHCK	H1AFCHCK:W1 Assets Flag:Checking,Savings--Cross-wave	Categ
2	H2AFCHCK	H2AFCHCK:W2 Assets Flag:Checking,Savings--Cross-wave	Categ
3	H3AFCHCK	H3AFCHCK:W3 Assets Flag:Checking,Savings--Cross-wave	Categ
4	H4AFCHCK	H4AFCHCK:W4 Assets Flag:Checking,Savings--Cross-wave	Categ
5	H5AFCHCK	H5AFCHCK:W5 Assets Flag:Checking,Savings--Cross-wave	Categ
6	H6AFCHCK	H6AFCHCK:W6 Assets Flag:Checking,Savings--Cross-wave	Categ
7	H7AFCHCK	H7AFCHCK:W7 Assets Flag:Checking,Savings--Cross-wave	Categ
8	H8AFCHCK	H8AFCHCK:W8 Assets Flag:Checking,Savings--Cross-wave	Categ
9	H9AFCHCK	H9AFCHCK:W9 Assets Flag:Checking,Savings--Cross-wave	Categ
10	H10AFCHCK	H10AFCHCK:W10 Assets Flag:Checking,Savings--Cross-wave	Categ
11	H11AFCHCK	H11AFCHCK:W11 Assets Flag:Checking,Savings--Cross-wave	Categ
12	H12AFCHCK	H12AFCHCK:W12 Assets Flag:Checking,Savings--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ACHCK	12652	13459.88	43531.49	0.0	2500000.0
H2ACHCK	19642	17176.34	46587.39	0.0	1235809.8
H3ACHCK	17991	21749.46	84119.79	0.0	3419362.5
H4ACHCK	21384	22233.09	247774.89	0.0	25000000.0
H5ACHCK	19579	21344.31	62805.07	0.0	3500000.0
H6ACHCK	18165	26794.52	256576.71	0.0	33300000.0
H7ACHCK	20129	26687.00	84676.02	0.0	3886428.2
H8ACHCK	18469	26522.63	77965.66	0.0	2500000.0
H9ACHCK	17217	28023.32	80323.88	0.0	2105948.6
H10ACHCK	22034	27516.68	100688.18	0.0	4000000.0
H11ACHCK	20554	29968.81	131439.28	0.0	7500000.0
H12ACHCK	18747	33634.25	144406.69	0.0	5691697.0
H1AFCHCK	12652	2.48	2.12	1.0	9.0
H2AFCHCK	19642	2.50	2.19	1.0	9.0
H3AFCHCK	17991	2.36	2.05	1.0	9.0
H4AFCHCK	21384	2.43	2.12	1.0	9.0
H5AFCHCK	19579	2.41	2.11	1.0	9.0
H6AFCHCK	18165	2.39	2.07	1.0	9.0
H7AFCHCK	20129	2.33	2.05	1.0	9.0
H8AFCHCK	18469	2.31	2.04	1.0	9.0
H9AFCHCK	17217	2.30	2.05	1.0	9.0
H10AFCHCK	22034	2.60	2.32	1.0	9.0
H11AFCHCK	20554	2.65	2.29	1.0	9.0
H12AFCHCK	18747	2.63	2.30	1.0	9.0

## Categorical Variable Codes

Value	H1AFCHCK	H2AFCHCK	H3AFCHCK	H4AFCHCK	H5AFCHCK	H6AFCHCK	H7AFCHCK
1.Continuous value	7383	11514	10787	12635	11959	11206	12603
2.Complete bracket	1483	2638	2174	2969	2214	1890	2212
3.Incomplete bracket	173	219	853	271	238	199	199
4.Range card bracket	532						
5.No value/bracket	515	833	945	1499	1734	1914	1902
6.No asset	2357	3955	2855	3432	2958	2529	2825
7.DK ownership	114	306	251	407	352	382	301
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFCHCK	H9AFCHCK	H10AFCHCK	H11AFCHCK	H12AFCHCK
1.Continuous value	11761	11066	13685	12477	11559
2.Complete bracket	1864	1677	1472	1332	1166
3.Incomplete bracket	190	180	259	208	192
5.No value/bracket	1808	1548	1284	1235	1026
6.No asset	2507	2423	4593	4838	4322
7.DK ownership	276	249	344	295	283
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of checking, savings, and money market accounts is assigned to HwACHCK. The HwAFCHCK variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The net value of checking, savings, and money market accounts is asked at each wave. The question wording is similar at all waves, but the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any checking, savings, or money market accounts and if so, the value of them.

In Wave 1, these questions ask:

- a) "Do you [or your (husband/wife/partner)] have any money in checking or savings accounts, or money market funds?"
- b) "If you added up all such accounts [for you and your (husband/wife/partner)], about how much would they amount to right now?"

Beginning in Wave 2, initial wording is added to the first question:

a) "(Aside from anything you have already told me about...) do you [or your (husband/wife/partner)] have any money in checking or savings accounts, or money market funds?"

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

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HRS 1992:
V15221      M12:$ IN CHKNG/SAV/$:IND
V15222      M13:$VAL OF BNK/MKT :IND
V5221       M12:$ IN CHKNG/SAV/$:IMP
V5222       M13:$VAL OF BNK/MKT :IMP
V5223       M13:ORIGINAL BRACKETS

AHEAD 1993:
B1749       K12. BANK ACCT: ANY NOT MENTION BEFORE
B1750       K13. BANK ACCT: TOTAL VALUE
B1750C      CATEG: K13. BANK ACCT: TOTAL VALUE

HRS 1994:
W15514      K11. Imputation Indicato
W15515      K12. Imputation Indicato
W5514       K11.MONEY IN CHECKING/SA
W5515       K12.AMOUNT IN ALL ACCOUN
W5516       K12a-K12d. Brackets

AHEAD 1995:
D4424       J44.CHECKING, SAVING ASSETS
D4425       J44.TOTAL $ CHECKING, SAVINGS
D4429B      J44.TOTAL $ CHECKING, SAVINGS/Bkt

HRS 1996:
E4425       J222.CHECKING,SAVING ASSETS
E4426       J223.TOTAL $ CHECKING, SAVINGS
E4427B      J223.TOTAL $ CHECKING, SAVINGS/Bkt

HRS 1998:
F5185       J222.CHECKING, SAVING ASSETS
F5186       J223.TOTAL $ CHECKING, SAVINGS
F5187B      J223.(J44)TOTAL $ CHECKING, SAVINGS-Bkt

HRS 2000:
G5620       J222.CHECKING-SAVING ASSETS
G5621       J223.TOTAL $ CHECKING-SAVINGS
G5622       J223A.DK-5K
G5623       J223B.DK-50K
G5624       J223C.DK-150K
G5625       J223D.DK-300K
G5626       J223E.DK-50K
G5627       J223F.DK-5K

HRS 2002:
HQ344       CHECKING SAVINGS MARKET FUNDS
HQ345       CHECKING TOTAL VALUE
HQ346       CHECKING TOTAL VALUE - MIN
HQ347       CHECKING TOTAL VALUE - MAX
HQ348       CHECKING TOTAL VALUE - RESULT
HU001       U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1     ASSET RECONCILIATION WHICH WRONG -1
HU002M2     ASSET RECONCILIATION WHICH WRONG -2

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HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ344	CHECKING SAVINGS MARKET FUNDS
JQ345	CHECKING TOTAL VALUE
JQ346	CHECKING TOTAL VALUE - MIN
JQ347	CHECKING TOTAL VALUE - MAX
JQ348	CHECKING TOTAL VALUE - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ344	CHECKING SAVINGS MARKET FUNDS
KQ345	CHECKING TOTAL VALUE
KQ346	CHECKING TOTAL VALUE - MIN
KQ347	CHECKING TOTAL VALUE - MAX
KQ348	CHECKING TOTAL VALUE - RESULT
KU001_6	ASSET RECONCILIATION-CHECKING
KU002_6	ASSET RECON WHICH WRONG-CHECKING
KU003_6A	ASSET RECON HOW MUCH -A-CHECKING
KU003_6B	ASSET RECON HOW MUCH-B-CHECKING
KU004_6A	ASSET RECON -MIN-A-CHECKING
KU004_6B	ASSET RECON -MIN-B-CHECKING

KU005_6A	ASSET RECON -MAX-A -CHECKING
KU005_6B	ASSET RECON-MAX-B -CHECKING
KU006_6A	ASSET RECON - RESULT-A-CHECKING
KU006_6B	ASSET RECON - RESULT-B-CHECKING
KU022_6A	WHICH WAVE WRONG-A-CHECKING
KU022_6B	WHICH WAVE WRONG-B-CHECKING
HRS 2008:	
LQ344	CHECKING SAVINGS MARKET FUNDS
LQ345	CHECKING TOTAL VALUE
LQ346	CHECKING TOTAL VALUE - MIN
LQ347	CHECKING TOTAL VALUE - MAX
LQ348	CHECKING TOTAL VALUE - RESULT
LU001_6	ASSET RECONCILIATION-CHECKING
LU002_6	ASSET RECONCILIATION WHICH WRONG-CHECKING
LU003_6A	ASSET RECONCILIATION HOW MUCH -A-CHECKING
LU003_6B	ASSET RECONCILIATION HOW MUCH-B-CHECKING
LU004_6A	ASSET RECON -MIN-A-CHECKING
LU004_6B	ASSET RECON -MIN-B-CHECKING
LU005_6A	ASSET RECON -MAX-A -CHECKING
LU005_6B	ASSET RECON-MAX-B -CHECKING
LU006_6A	ASSET RECON - RESULT-A-CHECKING
LU006_6B	ASSET RECON - RESULT-B-CHECKING
LU022_6A	WHICH WAVE WRONG-A-CHECKING
LU022_6B	WHICH WAVE WRONG-B-CHECKING
HRS 2010:	
MQ344	CHECKING SAVINGS MARKET FUNDS
MQ345	CHECKING TOTAL VALUE
MQ346	CHECKING TOTAL VALUE - MIN
MQ347	CHECKING TOTAL VALUE - MAX
MQ348	CHECKING TOTAL VALUE - RESULT
MU001_6	ASSET RECONCILIATION - CHECKING
MU002_6	ASSET RECONCILIATION - WHICH WRONG-CHECKING
MU003_6A	ASSET RECONCILIATION - HOW MUCH -A-CHECKING
MU003_6B	ASSET RECONCILIATION - HOW MUCH-B-CHECKING
MU004_6A	ASSET RECONCILIATION - MIN-A-CHECKING
MU004_6B	ASSET RECONCILIATION - MIN-B-CHECKING
MU005_6A	ASSET RECONCILIATION - MAX-A -CHECKING
MU005_6B	ASSET RECONCILIATION - MAX-B -CHECKING
MU006_6A	ASSET RECONCILIATION - RESULT-A-CHECKING
MU006_6B	ASSET RECONCILIATION - RESULT-B-CHECKING
MU022_6A	WHICH WAVE WRONG-A-CHECKING
MU022_6B	WHICH WAVE WRONG-B-CHECKING
HRS 2012:	
NQ344	CHECKING SAVINGS MARKET FUNDS
NQ345	CHECKING TOTAL VALUE
NQ346	CHECKING TOTAL VALUE - MIN
NQ347	CHECKING TOTAL VALUE - MAX
NQ348	CHECKING TOTAL VALUE - RESULT
NU001_6	ASSET RECONCILIATION - CHECKING
NU002_6	ASSET RECONCILIATION - WHICH WRONG-CHECKING
NU003_6A	ASSET RECONCILIATION - HOW MUCH -A-CHECKING
NU003_6B	ASSET RECONCILIATION - HOW MUCH-B-CHECKING
NU004_6A	ASSET RECONCILIATION - MIN-A-CHECKING
NU004_6B	ASSET RECONCILIATION - MIN-B-CHECKING
NU005_6A	ASSET RECONCILIATION - MAX-A -CHECKING
NU005_6B	ASSET RECONCILIATION - MAX-B -CHECKING
NU006_6A	ASSET RECONCILIATION - RESULT-A-CHECKING
NU006_6B	ASSET RECONCILIATION - RESULT-B-CHECKING
NU022_6A	WHICH WAVE WRONG-A-CHECKING

NU022_6B	WHICH WAVE WRONG-B-CHECKING
HRS 2014:	
OQ344	CHECKING SAVINGS MARKET FUNDS
OQ345	CHECKING TOTAL VALUE
OQ346	CHECKING TOTAL VALUE - MIN
OQ347	CHECKING TOTAL VALUE - MAX
OQ348	CHECKING TOTAL VALUE - RESULT
OU001_6	ASSET RECONCILIATION - CHECKING
OU002_6	ASSET RECONCILIATION - WHICH WRONG-CHECKING
OU003_6A	ASSET RECONCILIATION - HOW MUCH -A-CHECKING
OU003_6B	ASSET RECONCILIATION - HOW MUCH-B-CHECKING
OU004_6A	ASSET RECONCILIATION - MIN-A-CHECKING
OU004_6B	ASSET RECONCILIATION - MIN-B-CHECKING
OU005_6A	ASSET RECONCILIATION - MAX-A -CHECKING
OU005_6B	ASSET RECONCILIATION - MAX-B -CHECKING
OU006_6A	ASSET RECONCILIATION - RESULT-A-CHECKING
OU006_6B	ASSET RECONCILIATION - RESULT-B-CHECKING
OU022_6A	WHICH WAVE WRONG-A-CHECKING
OU022_6B	WHICH WAVE WRONG-B-CHECKING

<b>Value of CD, government savings bonds, and T-bills</b>
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Wave	Variable	Label	Type
1	H1ACD	H1ACD:W1 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
2	H2ACD	H2ACD:W2 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
3	H3ACD	H3ACD:W3 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
4	H4ACD	H4ACD:W4 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
5	H5ACD	H5ACD:W5 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
6	H6ACD	H6ACD:W6 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
7	H7ACD	H7ACD:W7 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
8	H8ACD	H8ACD:W8 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
9	H9ACD	H9ACD:W9 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
10	H10ACD	H10ACD:W10 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
11	H11ACD	H11ACD:W11 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
12	H12ACD	H12ACD:W12 Assets:CDs, SvBonds, T-bills--Cross-wave	Cont
1	H1AFCD	H1AFCD:W1 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
2	H2AFCD	H2AFCD:W2 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
3	H3AFCD	H3AFCD:W3 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
4	H4AFCD	H4AFCD:W4 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
5	H5AFCD	H5AFCD:W5 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
6	H6AFCD	H6AFCD:W6 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
7	H7AFCD	H7AFCD:W7 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
8	H8AFCD	H8AFCD:W8 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
9	H9AFCD	H9AFCD:W9 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
10	H10AFCD	H10AFCD:W10 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
11	H11AFCD	H11AFCD:W11 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ
12	H12AFCD	H12AFCD:W12 Assets Flag:CDs, SvBonds, T-bills--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ACD	12652	10195.50	233771.06	0.0	18266035.4
H2ACD	19642	8850.14	48298.39	0.0	2575357.4
H3ACD	17991	12521.43	79788.19	0.0	4343724.6
H4ACD	21384	11870.28	62190.05	0.0	4000000.0
H5ACD	19579	14246.36	71393.32	0.0	2760545.3
H6ACD	18165	12991.67	59215.67	0.0	2000000.0
H7ACD	20129	10717.24	53222.72	0.0	2000000.0
H8ACD	18469	16219.74	68123.00	0.0	2105096.9
H9ACD	17217	19571.09	83205.17	0.0	2500000.0
H10ACD	22034	11837.34	60949.86	0.0	2200000.0
H11ACD	20554	10670.81	80518.37	0.0	3380544.2
H12ACD	18747	9481.48	97642.30	0.0	10000000.0
H1AFCD	12652	4.89	2.05	1.0	9.0
H2AFCD	19642	5.07	1.96	1.0	9.0
H3AFCD	17991	4.96	2.02	1.0	9.0
H4AFCD	21384	5.02	1.99	1.0	9.0
H5AFCD	19579	4.97	2.02	1.0	9.0
H6AFCD	18165	5.03	1.97	1.0	9.0
H7AFCD	20129	5.21	1.82	1.0	9.0
H8AFCD	18469	5.02	1.98	1.0	9.0
H9AFCD	17217	5.01	1.99	1.0	9.0
H10AFCD	22034	5.37	1.79	1.0	9.0
H11AFCD	20554	5.49	1.58	1.0	9.0
H12AFCD	18747	5.58	1.49	1.0	9.0

## Categorical Variable Codes

Value	H1AFCD	H2AFCD	H3AFCD	H4AFCD	H5AFCD	H6AFCD	H7AFCD
1.Continuous value	2343	3060	3165	3536	3408	3084	2722
2.Complete bracket	470	818	554	842	760	510	536
3.Incomplete bracket	59	80	314	77	67	42	41
4.Range card bracket	213						
5.No value/bracket	204	368	446	699	775	730	691
6.No asset	9149	14760	13017	15495	13942	13179	15556
7.DK ownership	119	379	369	564	503	575	496
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFCD	H9AFCD	H10AFCD	H11AFCD	H12AFCD
1.Continuous value	3217	3057	2720	1998	1549
2.Complete bracket	447	416	377	261	201
3.Incomplete bracket	75	66	80	57	48
5.No value/bracket	707	649	375	317	240
6.No asset	13485	12492	17529	17287	16066
7.DK ownership	475	463	556	465	444
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of CDs, government savings bonds, and treasury bills is assigned to HwACD. The HwAFCD variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The value of CDs, government savings bonds, and treasury bills is asked at each wave. The question wording is similar at all waves but the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any CDs, government savings bonds, or T-bills and if so, the value of them.

In Wave 1, the questions ask:

a) "Do you [or your (husband/wife/partner)] have any money in certificates of deposit, government savings bonds, or Treasury bills?"

b) "If you added up all such accounts [for you and your (husband/wife/partner)], about how much would they amount to right now?"



Beginning in Wave 2, initial wording is added to the first question:

a) "(Aside from anything you have already told me about...) do you [or your (husband/wife/partner)] have any money in certificates of deposit, government savings bonds, or Treasury bills?"

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

HRS 1992:	
V15225	M14:CD/SAV BOND/T-BI:IND
V15226	M15:\$VAL OF CD/BOND/:IND
V5225	M14:CD/SAV BOND/T-BI:IMP
V5226	M15:\$VAL OF CD/BOND/:IMP
V5227	M15:ORIGINAL BRACKETS
AHEAD 1993:	
B1755	K14. CD/SAV BONDS: ANY
B1756	K15. CD/SAV BONDS: TOTAL VALUE \$
B1756C	CATEG: K15. CD/SAV BONDS: TOTAL VALUE \$
HRS 1994:	
W15517	K13. Imputation Indicato
W15518	K14. Imputation Indicato
W5517	K13.CODS/SAVINGS BONDS/T
W5518	K14.AMOUNT IN CODS/BONDS
W5519	K14a-K14d. Brackets
AHEAD 1995:	
D4463	J47.CD,TBILL ASSETS
D4464	J48.TOTAL \$ CD
D4468B	J48.TOTAL \$ CD/Bkt
HRS 1996:	
E4464	J229.CD,TBILL ASSETS
E4465	J230.TOTAL \$ CD
E4466B	J230.TOTAL \$ CD/Bkt
HRS 1998:	
F5224	J229.CD,TBILL ASSETS
F5225	J230.TOTAL \$ CD
F5226B	J230.(J48)TOTAL \$ CD-Bkt
HRS 2000:	
G5650	J229.CD-TBILL ASSETS
G5651	J230.TOTAL \$ CD
G5652	J230A. DK-2500
G5653	J230Y1A.DK-\$25K
G5654	J230B.DK-\$125K
G5655	J230C.DK-\$250K
G5656	J230Y2A.DK-\$25K
G5657	J230Y3A.DK-2500
HRS 2002:	
HQ356	CDS GOVT SAVINGS TBILLS
HQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
HQ358	CDS TOTAL VALUE - MIN
HQ359	CDS TOTAL VALUE - MAX
HQ360	CDS TOTAL VALUE - RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1

HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ356	CDS GOVT SAVINGS TBILLS
JQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
JQ358	CDS TOTAL VALUE - MIN
JQ359	CDS TOTAL VALUE - MAX
JQ360	CDS TOTAL VALUE - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ356	CDS GOVT SAVINGS TBILLS
KQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
KQ358	CDS TOTAL VALUE - MIN
KQ359	CDS TOTAL VALUE - MAX
KQ360	CDS TOTAL VALUE - RESULT
KU001_5	ASSET RECONCILIATION-CD
KU002_5	ASSET RECONCILIATION WHICH WRONG-CD
KU003_5A	ASSET RECONCILIATION HOW MUCH -A-CD
KU003_5B	ASSET RECONCILIATION HOW MUCH-B-CD
KU004_5A	ASSET RECONCILIATION -MIN-A-CD

KU004_5B	ASSET RECONCILIATION -MIN-B-CD
KU005_5A	ASSET RECONCILIATION -MAX-A -CD
KU005_5B	ASSET RECONCILIATION -MAX-B -CD
KU006_5A	ASSET RECONCILIATION - RESULT-A-CD
KU006_5B	ASSET RECONCILIATION - RESULT-B-CD
KU022_5A	WHICH WAVE VALUE WAS WRONG-A-CD
KU022_5B	WHICH WAVE VALUE WAS WRONG-B-CD
HRS 2008:	
LQ356	CDS GOVT SAVINGS TBILLS
LQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
LQ358	CDS TOTAL VALUE - MIN
LQ359	CDS TOTAL VALUE - MAX
LQ360	CDS TOTAL VALUE - RESULT
LU001_5	ASSET RECONCILIATION-CD
LU002_5	ASSET RECONCILIATION WHICH WRONG-CD
LU003_5A	ASSET RECONCILIATION HOW MUCH -A-CD
LU003_5B	ASSET RECONCILIATION HOW MUCH-B-CD
LU004_5A	ASSET RECONCILIATION -MIN-A-CD
LU004_5B	ASSET RECONCILIATION -MIN-B-CD
LU005_5A	ASSET RECONCILIATION -MAX-A -CD
LU005_5B	ASSET RECONCILIATION -MAX-B -CD
LU006_5A	ASSET RECONCILIATION - RESULT-A-CD
LU006_5B	ASSET RECONCILIATION - RESULT-B-CD
LU022_5A	WHICH WAVE WRONG-A-CD
LU022_5B	WHICH WAVE VALUE WAS WRONG-B-CD
HRS 2010:	
MQ356	CDS GOVT SAVINGS TBILLS
MQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
MQ358	CDS TOTAL VALUE - MIN
MQ359	CDS TOTAL VALUE - MAX
MQ360	CDS TOTAL VALUE - RESULT
MU001_5	ASSET RECONCILIATION - CD
MU002_5	ASSET RECONCILIATION - WHICH WRONG-CD
MU003_5A	ASSET RECONCILIATION - HOW MUCH -A-CD
MU003_5B	ASSET RECONCILIATION - HOW MUCH-B-CD
MU004_5A	ASSET RECONCILIATION - MIN-A-CD
MU004_5B	ASSET RECONCILIATION - MIN-B-CD
MU005_5A	ASSET RECONCILIATION - MAX-A -CD
MU005_5B	ASSET RECONCILIATION - MAX-B -CD
MU006_5A	ASSET RECONCILIATION - RESULT-A-CD
MU006_5B	ASSET RECONCILIATION - RESULT-B-CD
MU022_5A	WHICH WAVE WRONG-A-CD
MU022_5B	WHICH WAVE VALUE WAS WRONG-B-CD
HRS 2012:	
NQ356	CDS GOVT SAVINGS TBILLS
NQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
NQ358	CDS TOTAL VALUE - MIN
NQ359	CDS TOTAL VALUE - MAX
NQ360	CDS TOTAL VALUE - RESULT
NU001_5	ASSET RECONCILIATION - CD
NU002_5	ASSET RECONCILIATION - WHICH WRONG-CD
NU003_5A	ASSET RECONCILIATION - HOW MUCH -A-CD
NU003_5B	ASSET RECONCILIATION - HOW MUCH-B-CD
NU004_5A	ASSET RECONCILIATION - MIN-A-CD
NU004_5B	ASSET RECONCILIATION - MIN-B-CD
NU005_5A	ASSET RECONCILIATION - MAX-A -CD
NU005_5B	ASSET RECONCILIATION - MAX-B -CD
NU006_5A	ASSET RECONCILIATION - RESULT-A-CD
NU006_5B	ASSET RECONCILIATION - RESULT-B-CD

NU022_5A	WHICH WAVE WRONG-A-CD
NU022_5B	WHICH WAVE VALUE WAS WRONG-B-CD
HRS 2014:	
OQ356	CDS GOVT SAVINGS TBILLS
OQ357	CDS GOVT SAVINGS TBILLS TOTAL VALUE
OQ358	CDS TOTAL VALUE - MIN
OQ359	CDS TOTAL VALUE - MAX
OQ360	CDS TOTAL VALUE - RESULT
OU001_5	ASSET RECONCILIATION - CD
OU002_5	ASSET RECONCILIATION - WHICH WRONG-CD
OU003_5A	ASSET RECONCILIATION - HOW MUCH -A-CD
OU003_5B	ASSET RECONCILIATION - HOW MUCH-B-CD
OU004_5A	ASSET RECONCILIATION - MIN-A-CD
OU004_5B	ASSET RECONCILIATION - MIN-B-CD
OU005_5A	ASSET RECONCILIATION - MAX-A -CD
OU005_5B	ASSET RECONCILIATION - MAX-B -CD
OU006_5A	ASSET RECONCILIATION - RESULT-A-CD
OU006_5B	ASSET RECONCILIATION - RESULT-B-CD
OU022_5A	WHICH WAVE WRONG-A-CD
OU022_5B	WHICH WAVE VALUE WAS WRONG-B-CD

### Net value of bonds and bond funds

Wave	Variable	Label	Type
1	H1ABOND	H1ABOND:W1 Assets:Bonds--Cross-wave	Cont
2	H2ABOND	H2ABOND:W2 Assets:Bonds--Cross-wave	Cont
3	H3ABOND	H3ABOND:W3 Assets:Bonds--Cross-wave	Cont
4	H4ABOND	H4ABOND:W4 Assets:Bonds--Cross-wave	Cont
5	H5ABOND	H5ABOND:W5 Assets:Bonds--Cross-wave	Cont
6	H6ABOND	H6ABOND:W6 Assets:Bonds--Cross-wave	Cont
7	H7ABOND	H7ABOND:W7 Assets:Bonds--Cross-wave	Cont
8	H8ABOND	H8ABOND:W8 Assets:Bonds--Cross-wave	Cont
9	H9ABOND	H9ABOND:W9 Assets:Bonds--Cross-wave	Cont
10	H10ABOND	H10ABOND:W10 Assets:Bonds--Cross-wave	Cont
11	H11ABOND	H11ABOND:W11 Assets:Bonds--Cross-wave	Cont
12	H12ABOND	H12ABOND:W12 Assets:Bonds--Cross-wave	Cont
1	H1AFBOND	H1AFBOND:W1 Assets Flag:Bonds--Cross-wave	Categ
2	H2AFBOND	H2AFBOND:W2 Assets Flag:Bonds--Cross-wave	Categ
3	H3AFBOND	H3AFBOND:W3 Assets Flag:Bonds--Cross-wave	Categ
4	H4AFBOND	H4AFBOND:W4 Assets Flag:Bonds--Cross-wave	Categ
5	H5AFBOND	H5AFBOND:W5 Assets Flag:Bonds--Cross-wave	Categ
6	H6AFBOND	H6AFBOND:W6 Assets Flag:Bonds--Cross-wave	Categ
7	H7AFBOND	H7AFBOND:W7 Assets Flag:Bonds--Cross-wave	Categ
8	H8AFBOND	H8AFBOND:W8 Assets Flag:Bonds--Cross-wave	Categ
9	H9AFBOND	H9AFBOND:W9 Assets Flag:Bonds--Cross-wave	Categ
10	H10AFBOND	H10AFBOND:W10 Assets Flag:Bonds--Cross-wave	Categ
11	H11AFBOND	H11AFBOND:W11 Assets Flag:Bonds--Cross-wave	Categ
12	H12AFBOND	H12AFBOND:W12 Assets Flag:Bonds--Cross-wave	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ABOND	12652	2986.15	36070.50	0.0	2301010.1
H2ABOND	19642	4933.75	67258.16	0.0	4500000.0
H3ABOND	17991	8384.65	89041.49	0.0	4688166.6
H4ABOND	21384	7799.38	80360.61	0.0	4000000.0
H5ABOND	19579	8210.15	79246.62	0.0	4518629.2
H6ABOND	18165	9525.61	83194.60	0.0	3500000.0
H7ABOND	20129	12201.88	117596.71	0.0	6000000.0
H8ABOND	18469	10957.83	127171.81	0.0	7139676.6
H9ABOND	17217	12729.31	171602.92	0.0	14574578.8
H10ABOND	22034	8743.85	94538.01	0.0	6233883.6
H11ABOND	20554	11023.28	228756.81	0.0	25000000.0
H12ABOND	18747	8306.17	117069.42	0.0	8500000.0
H1AFBOND	12652	5.76	1.13	1.0	9.0
H2AFBOND	19642	5.79	1.11	1.0	9.0
H3AFBOND	17991	5.68	1.27	1.0	9.0
H4AFBOND	21384	5.73	1.22	1.0	9.0
H5AFBOND	19579	5.74	1.18	1.0	9.0
H6AFBOND	18165	5.71	1.20	1.0	9.0
H7AFBOND	20129	5.74	1.16	1.0	9.0
H8AFBOND	18469	5.78	1.07	1.0	9.0
H9AFBOND	17217	5.76	1.12	1.0	9.0
H10AFBOND	22034	5.85	1.11	1.0	9.0
H11AFBOND	20554	5.82	1.04	1.0	9.0
H12AFBOND	18747	5.87	0.98	1.0	9.0

## Categorical Variable Codes

Value	H1AFBOND	H2AFBOND	H3AFBOND	H4AFBOND	H5AFBOND	H6AFBOND	H7AFBOND
1.Continuous value	560	774	977	1016	878	905	894
2.Complete bracket	94	222	247	335	271	234	261
3.Incomplete bracket	8	37	120	36	33	28	23
4.Range card bracket	49						
5.No value/bracket	76	102	158	225	288	243	260
6.No asset	11661	18010	16121	19151	17562	16283	18189
7.DK ownership	109	320	242	450	423	427	415
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFBOND	H9AFBOND	H10AFBOND	H11AFBOND	H12AFBOND
1.Continuous value	725	741	813	717	556
2.Complete bracket	166	163	169	159	120
3.Incomplete bracket	18	24	36	27	28
5.No value/bracket	230	188	163	171	134
6.No asset	16923	15709	20012	18971	17345
7.DK ownership	344	318	444	340	365
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of bonds or bond funds is assigned to HwABOND. The HwAFBOND variable indicates if the value is imputed, and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The net value of bonds or bond funds is asked at each wave. The question wording is similar at all waves, but the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any bonds or bond funds and if so, the value of them.

In Wave 1, the questions ask:

- "Do you [or your (husband/wife/partner)] have any corporate, municipal, government, or foreign bonds, or any bond funds?"
- "If you sold all those bonds or bond funds and paid off anything you owed on them, how much would you have?"

Beginning in Wave 2, initial wording is added to the first question:

a) "(Aside from anything you have already told me about...) do you [or your (husband/wife/partner)] have any corporate, municipal, government, or foreign bonds, or any bond funds?"

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

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HRS 1992:
V15229      M16:R/SP OWN ANY BON:IND
V15230      M17:$ VAL OF THESE B:IND
V5229       M16:R/SP OWN ANY BON:IMP
V5230       M17:$ VAL OF THESE B:IMP
V5231       M17:ORIGINAL BRACKETS

AHEAD 1993:
B1761       K16. CORP/GOVT BONDS: ANY
B1762       K17. CORP/GOVT BONDS: NET VALUE
B1762C      CATEG: K17. CORP/GOVT BONDS: NET VALUE

HRS 1994:
W15520      K15. Imputation Indicato
W15521      K16. Imputation Indicato
W5520       K15.OWN CORPORATE/GOVT B
W5521       K16.VALUE OF BONDS
W5522       K16a-K16d. Brackets

AHEAD 1995:
D4381       J40.BOND ASSETS
D4382       J41.TOTAL $ BONDS
D4386B      J41.TOTAL $ BONDS/Bkt

HRS 1996:
E4382       J215.BOND ASSETS
E4383       J216.TOTAL $ BONDS
E4384B      J216.TOTAL $ BONDS/Bkt

HRS 1998:
F5142       J215.BOND ASSETS
F5143       J216.TOTAL $ BONDS
F5144B      J216.(J41)TOTAL $ BONDS-Bkt

HRS 2000:
G5587       J215.BOND ASSETS
G5588       J216.TOTAL $ BONDS
G5589       J216A.BONDS DK-2500
G5590       J216Y1A.BONDS DK-$10K
G5591       J216B.BONDS DK-$100K
G5593       J216C.BONDS DK-$400K
G5594       J216Y2A.BONDS DK-$10K
G5595       J216D.BONDS DK-2500

HRS 2002:
HQ330       BOND ASSETS
HQ331       BOND ASSETS TOTAL VALUE
HQ332       BOND ASSETS TOTAL VALUE - MIN
HQ333       BOND ASSETS TOTAL VALUE - MAX
HQ334       BOND ASSETS TOTAL VALUE - RESULT
HU001       U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1     ASSET RECONCILIATION WHICH WRONG -1
HU002M2     ASSET RECONCILIATION WHICH WRONG -2

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HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ330	BOND ASSETS
JQ331	BOND ASSETS TOTAL VALUE
JQ332	BOND ASSETS TOTAL VALUE - MIN
JQ333	BOND ASSETS TOTAL VALUE - MAX
JQ334	BOND ASSETS TOTAL VALUE - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ330	BOND ASSETS
KQ331	BOND ASSETS TOTAL VALUE
KQ332	BOND ASSETS TOTAL VALUE - MIN
KQ333	BOND ASSETS TOTAL VALUE - MAX
KQ334	BOND ASSETS TOTAL VALUE - RESULT
KU001_7	ASSET RECONCILIATION-BOND
KU002_7	ASSET RECONCILIATION WHICH WRONG-BOND
KU003_7A	ASSET RECONCILIATION HOW MUCH -A-BOND
KU003_7B	ASSET RECONCILIATION HOW MUCH-B-BOND
KU004_7A	ASSET RECONCILIATION -MIN-A-BOND
KU004_7B	ASSET RECONCILIATION -MIN-B-BOND



KU005_7A	ASSET RECONCILIATION -MAX-A -BOND
KU005_7B	ASSET RECONCILIATION -MAX-B -BOND
KU006_7A	ASSET RECONCILIATION - RESULT-A-BOND
KU006_7B	ASSET RECONCILIATION - RESULT-B-BOND
KU022_7A	WHICH WAVE VALUE WAS WRONG-A-BOND
KU022_7B	WHICH WAVE VALUE WAS WRONG-B-BOND
HRS 2008:	
LQ330	BOND ASSETS
LQ331	BOND ASSETS TOTAL VALUE
LQ332	BOND ASSETS TOTAL VALUE - MIN
LQ333	BOND ASSETS TOTAL VALUE - MAX
LQ334	BOND ASSETS TOTAL VALUE - RESULT
LU001_7	ASSET RECONCILIATION-BOND
LU002_7	ASSET RECONCILIATION WHICH WRONG-BOND
LU003_7A	ASSET RECONCILIATION HOW MUCH -A-BOND
LU003_7B	ASSET RECONCILIATION HOW MUCH-B-BOND
LU004_7A	ASSET RECONCILIATION -MIN-A-BOND
LU004_7B	ASSET RECONCILIATION -MIN-B-BOND
LU005_7A	ASSET RECONCILIATION -MAX-A -BOND
LU005_7B	ASSET RECONCILIATION -MAX-B -BOND
LU006_7A	ASSET RECONCILIATION - RESULT-A-BOND
LU006_7B	ASSET RECONCILIATION - RESULT-B-BOND
LU022_7A	WHICH WAVE WRONG-A-BOND
LU022_7B	WHICH WAVE VALUE WAS WRONG-B-BOND
HRS 2010:	
MQ330	BOND ASSETS
MQ331	BOND ASSETS TOTAL VALUE
MQ332	BOND ASSETS TOTAL VALUE - MIN
MQ333	BOND ASSETS TOTAL VALUE - MAX
MQ334	BOND ASSETS TOTAL VALUE - RESULT
MU001_7	ASSET RECONCILIATION - BOND
MU002_7	ASSET RECONCILIATION - WHICH WRONG-BOND
MU003_7A	ASSET RECONCILIATION - HOW MUCH -A-BOND
MU003_7B	ASSET RECONCILIATION - HOW MUCH-B-BOND
MU004_7A	ASSET RECONCILIATION - MIN-A-BOND
MU004_7B	ASSET RECONCILIATION - MIN-B-BOND
MU005_7A	ASSET RECONCILIATION - MAX-A -BOND
MU005_7B	ASSET RECONCILIATION - MAX-B -BOND
MU006_7A	ASSET RECONCILIATION - RESULT-A-BOND
MU006_7B	ASSET RECONCILIATION - RESULT-B-BOND
MU022_7A	WHICH WAVE WRONG-A-BOND
MU022_7B	WHICH WAVE VALUE WAS WRONG-B-BOND
HRS 2012:	
NQ330	BOND ASSETS
NQ331	BOND ASSETS TOTAL VALUE
NQ332	BOND ASSETS TOTAL VALUE - MIN
NQ333	BOND ASSETS TOTAL VALUE - MAX
NQ334	BOND ASSETS TOTAL VALUE - RESULT
NU001_7	ASSET RECONCILIATION - BOND
NU002_7	ASSET RECONCILIATION - WHICH WRONG-BOND
NU003_7A	ASSET RECONCILIATION - HOW MUCH -A-BOND
NU003_7B	ASSET RECONCILIATION - HOW MUCH-B-BOND
NU004_7A	ASSET RECONCILIATION - MIN-A-BOND
NU004_7B	ASSET RECONCILIATION - MIN-B-BOND
NU005_7A	ASSET RECONCILIATION - MAX-A -BOND
NU005_7B	ASSET RECONCILIATION - MAX-B -BOND
NU006_7A	ASSET RECONCILIATION - RESULT-A-BOND
NU006_7B	ASSET RECONCILIATION - RESULT-B-BOND
NU022_7A	WHICH WAVE WRONG-A-BOND

NU022_7B	WHICH WAVE VALUE WAS WRONG-B-BOND
HRS 2014:	
OQ330	BOND ASSETS
OQ331	BOND ASSETS TOTAL VALUE
OQ332	BOND ASSETS TOTAL VALUE - MIN
OQ333	BOND ASSETS TOTAL VALUE - MAX
OQ334	BOND ASSETS TOTAL VALUE - RESULT
OU001_7	ASSET RECONCILIATION - BOND
OU002_7	ASSET RECONCILIATION - WHICH WRONG-BOND
OU003_7A	ASSET RECONCILIATION - HOW MUCH -A-BOND
OU003_7B	ASSET RECONCILIATION - HOW MUCH-B-BOND
OU004_7A	ASSET RECONCILIATION - MIN-A-BOND
OU004_7B	ASSET RECONCILIATION - MIN-B-BOND
OU005_7A	ASSET RECONCILIATION - MAX-A -BOND
OU005_7B	ASSET RECONCILIATION - MAX-B -BOND
OU006_7A	ASSET RECONCILIATION - RESULT-A-BOND
OU006_7B	ASSET RECONCILIATION - RESULT-B-BOND
OU022_7A	WHICH WAVE WRONG-A-BOND
OU022_7B	WHICH WAVE VALUE WAS WRONG-B-BOND

<b>Net value of all other savings</b>
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Wave	Variable	Label	Type
1	H1AOTHR	H1AOTHR:W1 Assets:Other svngs, assets--Cross-wave	Cont
2	H2AOTHR	H2AOTHR:W2 Assets:Other svngs, assets--Cross-wave	Cont
3	H3AOTHR	H3AOTHR:W3 Assets:Other svngs, assets--Cross-wave	Cont
4	H4AOTHR	H4AOTHR:W4 Assets:Other svngs, assets--Cross-wave	Cont
5	H5AOTHR	H5AOTHR:W5 Assets:Other svngs, assets--Cross-wave	Cont
6	H6AOTHR	H6AOTHR:W6 Assets:Other svngs, assets--Cross-wave	Cont
7	H7AOTHR	H7AOTHR:W7 Assets:Other svngs, assets--Cross-wave	Cont
8	H8AOTHR	H8AOTHR:W8 Assets:Other svngs, assets--Cross-wave	Cont
9	H9AOTHR	H9AOTHR:W9 Assets:Other svngs, assets--Cross-wave	Cont
10	H10AOTHR	H10AOTHR:W10 Assets:Other svngs, assets--Cross-wave	Cont
11	H11AOTHR	H11AOTHR:W11 Assets:Other svngs, assets--Cross-wave	Cont
12	H12AOTHR	H12AOTHR:W12 Assets:Other svngs, assets--Cross-wave	Cont
1	H1AFOTHR	H1AFOTHR:W1 Assets Flag:Other svngs,assets--Cross-wave	Categ
2	H2AFOTHR	H2AFOTHR:W2 Assets Flag:Other svngs,assets--Cross-wave	Categ
3	H3AFOTHR	H3AFOTHR:W3 Assets Flag:Other svngs,assets--Cross-wave	Categ
4	H4AFOTHR	H4AFOTHR:W4 Assets Flag:Other svngs,assets--Cross-wave	Categ
5	H5AFOTHR	H5AFOTHR:W5 Assets Flag:Other svngs,assets--Cross-wave	Categ
6	H6AFOTHR	H6AFOTHR:W6 Assets Flag:Other svngs,assets--Cross-wave	Categ
7	H7AFOTHR	H7AFOTHR:W7 Assets Flag:Other svngs,assets--Cross-wave	Categ
8	H8AFOTHR	H8AFOTHR:W8 Assets Flag:Other svngs,assets--Cross-wave	Categ
9	H9AFOTHR	H9AFOTHR:W9 Assets Flag:Other svngs,assets--Cross-wave	Categ
10	H10AFOTHR	H10AFOTHR:W10 Assets Flag:Other svngs,assets--Cross-wave	Categ
11	H11AFOTHR	H11AFOTHR:W11 Assets Flag:Other svngs,assets--Cross-wave	Categ
12	H12AFOTHR	H12AFOTHR:W12 Assets Flag:Other svngs,assets--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AOTHR	12652	8420.32	60399.26	0.0	3000000.0
H2AOTHR	19642	6769.63	37230.76	0.0	1363291.9
H3AOTHR	17991	8620.50	81186.60	0.0	5026322.6
H4AOTHR	21384	9600.13	107012.28	0.0	6258166.5
H5AOTHR	19579	9574.73	72120.28	0.0	3155000.0
H6AOTHR	18165	16063.96	707703.45	0.0	90000000.0
H7AOTHR	20129	13015.41	99090.30	0.0	5000000.0
H8AOTHR	18469	16632.96	185360.05	0.0	15000000.0
H9AOTHR	17217	16206.60	196415.28	0.0	15000000.0
H10AOTHR	22034	15386.42	219696.25	-50000.0	18000000.0
H11AOTHR	20554	11360.99	93670.03	0.0	5000000.0
H12AOTHR	18747	13689.32	129327.03	0.0	8442705.7
H1AFOTHR	12652	5.34	1.70	1.0	9.0
H2AFOTHR	19642	5.22	1.85	1.0	9.0
H3AFOTHR	17991	5.34	1.72	1.0	9.0
H4AFOTHR	21384	5.41	1.66	1.0	9.0
H5AFOTHR	19579	5.39	1.67	1.0	9.0
H6AFOTHR	18165	5.43	1.61	1.0	9.0
H7AFOTHR	20129	5.29	1.76	1.0	9.0
H8AFOTHR	18469	5.30	1.74	1.0	9.0
H9AFOTHR	17217	5.32	1.73	1.0	9.0
H10AFOTHR	22034	5.36	1.79	1.0	9.0
H11AFOTHR	20554	5.36	1.73	1.0	9.0
H12AFOTHR	18747	5.34	1.77	1.0	9.0

## Categorical Variable Codes

Value	H1AFOTHR	H2AFOTHR	H3AFOTHR	H4AFOTHR	H5AFOTHR	H6AFOTHR	H7AFOTHR
1.Continuous value	1427	2707	2124	2234	2082	1862	2507
2.Complete bracket	303	585	400	509	481	317	497
3.Incomplete bracket	22	35	15	27	24	21	21
4.Range card bracket	110						
5.No value/bracket	126	156	141	183	217	194	323
6.No asset	10453	15686	14969	17857	16360	15381	16361
7.DK ownership	116	296	216	403	291	345	333
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFOTHR	H9AFOTHR	H10AFOTHR	H11AFOTHR	H12AFOTHR
1.Continuous value	2294	2088	2716	2467	2375
2.Complete bracket	380	373	453	349	327
3.Incomplete bracket	26	30	61	30	27
5.No value/bracket	239	219	215	188	175
6.No asset	15207	14175	17784	16987	15265
7.DK ownership	260	258	408	364	379
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed net value of all other savings is assigned to HwAOTHR. The HwAFOTHR variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

Users should note that there are two Respondents in Wave 6 who reported large values in Section U, much higher than their reported amounts in Section Q.

1. HHIDPN: 10893010 reported no ownership for the asset "other personal items of value" in Section Q and a value of \$90,000,000 in Section U for the same asset.
2. HHIDPN: 131812010 reported a complete bracket of \$100,001+ in Section Q for the same asset type. However, in Section U a value of \$30,000,000 was reported.

Since the RAND HRS wealth imputation process uses the corrected Section U values when available, the final values for these 2 cases are 90 and 30 million dollars, respectively. Therefore, please use caution when drawing inferences about total wealth from Wave 6, as these 2 cases largely influence the total wealth values.

## Cross Wave Differences in Original HRS Data

The net value of all other savings is asked at each wave. The question wording is slightly different across waves and the unfolding bracket questions vary. Two questions reveal whether the Respondent owns any other savings funds and if so, the value of them:

In Wave 1, the questions ask:

a) "Do you [or your (husband/wife/partner)] have any other savings or assets, such as money owed to you by others, a valuable collection for investment purposes, an annuity, or rights in a trust or estate that you haven't already told me about?"

b) "If you sold all that and then paid off any debts on it, about how much would you have?"

In Wave 2, the wording to the initial question changes slightly:

a) "Do you (or your (husband/wife/partner)) have any other savings or assets, such as jewelry, money owed to you by others, a collection for investment purposes, or an annuity that you haven't already told me about?"

Beginning in Wave 3, the initial question combines the wording found in Waves 1 and 2:

a) "Do you [or your (husband/wife/partner)] have any other savings or assets, such as jewelry, money owed to you by others, a collection for investment purposes, rights in a trust or estate where you are the beneficiary, or an annuity that you haven't already told me about? [EXCLUDE THE CASH VALUE OF ANY LIFE INSURANCE POLICIES.]"

In all waves, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket amounts and entry points vary across waves. In Wave 1, range card brackets may be coded instead of unfolding brackets.

## HRS Variables Used

HRS 1992:	
V15233	M18:OTHER SAVINGS/AS:IND
V15234	M19:\$ VAL OF SAV/ASS:IND
V5233	M18:OTHER SAVINGS/AS:IMP
V5234	M19:\$ VAL OF SAV/ASS:IMP
V5235	M19:ORIGINAL BRACKETS
AHEAD 1993:	
B1782	K21. OTHER ASSETS: ANY
B1783	K22. OTH ASSETS: NET VALUE
B1783C	CATEG: K22. OTH ASSETS: NET VALUE
HRS 1994:	
W15523	K17. Imputation Indicato
W15524	K18. Imputation Indicato
W5523	K17.OTHER SAVINGS/ASSETS
W5524	K18.VALUE OF OTHER SAVIN
W5525	K18a-K18c. Brackets
AHEAD 1995:	
D4512	J52.OTHER ASSETS
D4513	J53.OTHER ASSETS \$
D4514B	J53.OTHER ASSETS \$/Bkt
HRS 1996:	
E4513	J239.OTHER ASSETS

E4514	J240.OTHER ASSETS \$
E4515B	J240.OTHER ASSETS \$/Bkt
HRS 1998:	
F5273	J239.OTHER ASSETS
F5274	J240.OTHER ASSETS \$
F5275B	J240.(J53)OTHER ASSETS \$-Bkt
HRS 2000:	
G5694	J239.OTHER ASSETS
G5695	J240.OTHER ASSETS \$
G5696	J240A. DK-5K
G5697	J240Y1A. DK-50000
G5698	J240B. DK-100000
G5699	J240Y1B. DK-50000
G5700	J240D. DK-5000
HRS 2002:	
HQ375	OTHER ASSETS
HQ376	OTHER ASSETS TOTAL VALUE
HQ377	OTHER ASSETS TOTAL VALUE - MIN
HQ378	OTHER ASSETS TOTAL VALUE - MAX
HQ379	OTHER ASSETS TOTAL VALUE-RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ375	OTHER ASSETS
JQ376	OTHER ASSETS TOTAL VALUE
JQ377	OTHER ASSETS TOTAL VALUE - MIN
JQ378	OTHER ASSETS TOTAL VALUE - MAX
JQ379	OTHER ASSETS TOTAL VALUE-RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1

JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ375	OTHER ASSETS
KQ376	OTHER ASSETS TOTAL VALUE
KQ377	OTHER ASSETS TOTAL VALUE - MIN
KQ378	OTHER ASSETS TOTAL VALUE - MAX
KQ379	OTHER ASSETS TOTAL VALUE-RESULT
KU001_3	ASSET RECONCILIATION-OTHER
KU002_3	ASSET RECONCILIATION WHICH WRONG-OTHER
KU003_3A	ASSET RECONCILIATION HOW MUCH -A-OTHER
KU003_3B	ASSET RECONCILIATION HOW MUCH-B-OTHER
KU004_3A	ASSET RECONCILIATION -MIN-A-OTHER
KU004_3B	ASSET RECONCILIATION -MIN-B-OTHER
KU005_3A	ASSET RECONCILIATION -MAX-A -OTHER
KU005_3B	ASSET RECONCILIATION -MAX-B -OTHER
KU006_3A	ASSET RECONCILIATION - RESULT-A-OTHER
KU006_3B	ASSET RECONCILIATION - RESULT-B-OTHER
KU022_3A	WHICH WAVE VALUE WAS WRONG-A-OTHER
KU022_3B	WHICH WAVE VALUE WAS WRONG-B-OTHER
HRS 2008:	
LQ375	OTHER ASSETS
LQ376	OTHER ASSETS TOTAL VALUE
LQ377	OTHER ASSETS TOTAL VALUE - MIN
LQ378	OTHER ASSETS TOTAL VALUE - MAX
LQ379	OTHER ASSETS TOTAL VALUE-RESULT
LU001_3	ASSET RECONCILIATION-OTHER
LU002_3	ASSET RECONCILIATION WHICH WRONG-OTHER
LU003_3A	ASSET RECONCILIATION HOW MUCH -A-OTHER
LU003_3B	ASSET RECONCILIATION HOW MUCH-B-OTHER
LU004_3A	ASSET RECONCILIATION -MIN-A-OTHER
LU004_3B	ASSET RECONCILIATION -MIN-B-OTHER
LU005_3A	ASSET RECONCILIATION -MAX-A -OTHER
LU005_3B	ASSET RECONCILIATION -MAX-B -OTHER
LU006_3A	ASSET RECONCILIATION - RESULT-A-OTHER
LU006_3B	ASSET RECONCILIATION - RESULT-B-OTHER
LU022_3A	WHICH WAVE WRONG-A-OTHER
LU022_3B	WHICH WAVE VALUE WAS WRONG-B-OTHER
HRS 2010:	
MQ375	OTHER ASSETS
MQ376	OTHER ASSETS TOTAL VALUE
MQ377	OTHER ASSETS TOTAL VALUE - MIN
MQ378	OTHER ASSETS TOTAL VALUE - MAX
MQ379	OTHER ASSETS TOTAL VALUE-RESULT
MU001_3	ASSET RECONCILIATION - OTHER
MU002_3	ASSET RECONCILIATION - WHICH WRONG-OTHER
MU003_3A	ASSET RECONCILIATION - HOW MUCH -A-OTHER
MU003_3B	ASSET RECONCILIATION - HOW MUCH-B-OTHER
MU004_3A	ASSET RECONCILIATION - MIN-A-OTHER
MU004_3B	ASSET RECONCILIATION - MIN-B-OTHER

MU005_3A	ASSET RECONCILIATION - MAX-A -OTHER
MU005_3B	ASSET RECONCILIATION - MAX-B -OTHER
MU006_3A	ASSET RECONCILIATION - RESULT-A-OTHER
MU006_3B	ASSET RECONCILIATION - RESULT-B-OTHER
MU022_3A	WHICH WAVE WRONG-A-OTHER
MU022_3B	WHICH WAVE VALUE WAS WRONG-B-OTHER
HRS 2012:	
NQ375	OTHER ASSETS
NQ376	OTHER ASSETS TOTAL VALUE
NQ377	OTHER ASSETS TOTAL VALUE - MIN
NQ378	OTHER ASSETS TOTAL VALUE - MAX
NQ379	OTHER ASSETS TOTAL VALUE-RESULT
NU001_3	ASSET RECONCILIATION - OTHER
NU002_3	ASSET RECONCILIATION - WHICH WRONG-OTHER
NU003_3A	ASSET RECONCILIATION - HOW MUCH -A-OTHER
NU003_3B	ASSET RECONCILIATION - HOW MUCH-B-OTHER
NU004_3A	ASSET RECONCILIATION - MIN-A-OTHER
NU004_3B	ASSET RECONCILIATION - MIN-B-OTHER
NU005_3A	ASSET RECONCILIATION - MAX-A -OTHER
NU005_3B	ASSET RECONCILIATION - MAX-B -OTHER
NU006_3A	ASSET RECONCILIATION - RESULT-A-OTHER
NU006_3B	ASSET RECONCILIATION - RESULT-B-OTHER
NU022_3A	WHICH WAVE WRONG-A-OTHER
NU022_3B	WHICH WAVE VALUE WAS WRONG-B-OTHER
HRS 2014:	
OQ375	OTHER ASSETS
OQ376	OTHER ASSETS TOTAL VALUE
OQ377	OTHER ASSETS TOTAL VALUE - MIN
OQ378	OTHER ASSETS TOTAL VALUE - MAX
OQ379	OTHER ASSETS TOTAL VALUE-RESULT
OU001_3	ASSET RECONCILIATION - OTHER
OU002_3	ASSET RECONCILIATION - WHICH WRONG-OTHER
OU003_3A	ASSET RECONCILIATION - HOW MUCH -A-OTHER
OU003_3B	ASSET RECONCILIATION - HOW MUCH-B-OTHER
OU004_3A	ASSET RECONCILIATION - MIN-A-OTHER
OU004_3B	ASSET RECONCILIATION - MIN-B-OTHER
OU005_3A	ASSET RECONCILIATION - MAX-A -OTHER
OU005_3B	ASSET RECONCILIATION - MAX-B -OTHER
OU006_3A	ASSET RECONCILIATION - RESULT-A-OTHER
OU006_3B	ASSET RECONCILIATION - RESULT-B-OTHER
OU022_3A	WHICH WAVE WRONG-A-OTHER
OU022_3B	WHICH WAVE VALUE WAS WRONG-B-OTHER



<b>Value of other debt</b>
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Wave	Variable	Label	Type
1	H1ADEBT	H1ADEBT:W1 Assets:Debts [not yet asked]--Cross-wave	Cont
2	H2ADEBT	H2ADEBT:W2 Assets:Debts [not yet asked]--Cross-wave	Cont
3	H3ADEBT	H3ADEBT:W3 Assets:Debts [not yet asked]--Cross-wave	Cont
4	H4ADEBT	H4ADEBT:W4 Assets:Debts [not yet asked]--Cross-wave	Cont
5	H5ADEBT	H5ADEBT:W5 Assets:Debts [not yet asked]--Cross-wave	Cont
6	H6ADEBT	H6ADEBT:W6 Assets:Debts [not yet asked]--Cross-wave	Cont
7	H7ADEBT	H7ADEBT:W7 Assets:Debts [not yet asked]--Cross-wave	Cont
8	H8ADEBT	H8ADEBT:W8 Assets:Debts [not yet asked]--Cross-wave	Cont
9	H9ADEBT	H9ADEBT:W9 Assets:Debts [not yet asked]--Cross-wave	Cont
10	H10ADEBT	H10ADEBT:W10 Assets:Debts [not yet asked]--Cross-wave	Cont
11	H11ADEBT	H11ADEBT:W11 Assets:Debts [not yet asked]--Cross-wave	Cont
12	H12ADEBT	H12ADEBT:W12 Assets:Debts [not yet asked]--Cross-wave	Cont
1	H1AFDEBT	H1AFDEBT:W1 Assets Flag:Debts--Cross-wave	Categ
2	H2AFDEBT	H2AFDEBT:W2 Assets Flag:Debts--Cross-wave	Categ
3	H3AFDEBT	H3AFDEBT:W3 Assets Flag:Debts--Cross-wave	Categ
4	H4AFDEBT	H4AFDEBT:W4 Assets Flag:Debts--Cross-wave	Categ
5	H5AFDEBT	H5AFDEBT:W5 Assets Flag:Debts--Cross-wave	Categ
6	H6AFDEBT	H6AFDEBT:W6 Assets Flag:Debts--Cross-wave	Categ
7	H7AFDEBT	H7AFDEBT:W7 Assets Flag:Debts--Cross-wave	Categ
8	H8AFDEBT	H8AFDEBT:W8 Assets Flag:Debts--Cross-wave	Categ
9	H9AFDEBT	H9AFDEBT:W9 Assets Flag:Debts--Cross-wave	Categ
10	H10AFDEBT	H10AFDEBT:W10 Assets Flag:Debts--Cross-wave	Categ
11	H11AFDEBT	H11AFDEBT:W11 Assets Flag:Debts--Cross-wave	Categ
12	H12AFDEBT	H12AFDEBT:W12 Assets Flag:Debts--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ADEBT	12652	3159.75	19081.18	0.0	900000.0
H2ADEBT	19642	2372.40	15571.25	0.0	1001841.0
H3ADEBT	17991	2385.43	13415.88	0.0	500000.0
H4ADEBT	21384	3493.71	67456.37	0.0	6666733.0
H5ADEBT	19579	2633.97	15084.98	0.0	700000.0
H6ADEBT	18165	2904.47	18612.22	0.0	800000.0
H7ADEBT	20129	4086.19	34841.81	0.0	2400000.0
H8ADEBT	18469	4172.36	37980.70	0.0	2200000.0
H9ADEBT	17217	4403.74	32290.36	0.0	1900000.0
H10ADEBT	22034	5992.36	32404.39	0.0	2000000.0
H11ADEBT	20554	5233.33	28772.62	0.0	1700000.0
H12ADEBT	18747	5185.99	26698.53	0.0	1500000.0
H1AFDEBT	12652	4.25	2.41	1.0	9.0
H2AFDEBT	19642	4.72	2.22	1.0	9.0
H3AFDEBT	17991	4.76	2.18	1.0	9.0
H4AFDEBT	21384	4.82	2.15	1.0	9.0
H5AFDEBT	19579	4.75	2.18	1.0	9.0
H6AFDEBT	18165	4.89	2.08	1.0	9.0
H7AFDEBT	20129	4.67	2.21	1.0	9.0
H8AFDEBT	18469	4.65	2.22	1.0	9.0
H9AFDEBT	17217	4.59	2.26	1.0	9.0
H10AFDEBT	22034	4.40	2.41	1.0	9.0
H11AFDEBT	20554	4.45	2.35	1.0	9.0
H12AFDEBT	18747	4.49	2.34	1.0	9.0

## Categorical Variable Codes

Value	H1AFDEBT	H2AFDEBT	H3AFDEBT	H4AFDEBT	H5AFDEBT	H6AFDEBT	H7AFDEBT
1.Continuous value	4400	4726	4106	4627	4565	3697	4933
2.Complete bracket		544	539	671	479	431	599
3.Incomplete bracket		14	11	28	39	28	28
4.Range card bracket	189						
5.No value/bracket	292	93	122	163	168	217	222
6.No asset	7415	13859	12914	15443	13974	13459	14012
7.DK ownership	261	229	173	281	230	288	248
9.No Fin resp	95	177	126	171	124	45	87

Value	H8AFDEBT	H9AFDEBT	H10AFDEBT	H11AFDEBT	H12AFDEBT
1.Continuous value	4649	4598	6893	6160	5500
2.Complete bracket	472	363	458	387	308
3.Incomplete bracket	26	41	52	58	54
5.No value/bracket	202	199	238	174	190
6.No asset	12842	11725	13688	13347	12265
7.DK ownership	215	217	308	259	231
9.No Fin resp	63	74	397	169	199

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of debt is assigned to HwADEBT. The HwAFDEBT variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

## Cross Wave Differences in Original HRS Data

The Bracket breakpoints are different in Wave 8 and Wave 9.

In Waves 8 and 9, Respondents who answer "Don't Know" or "Refuse" to the question about debt amount (Q478) enter into a sequence of bracket questions to determine a possible range of values. In Wave 8, the breakpoints for these ranges were \$500, \$5,000, and \$50,000. However, in Wave 9, these breakpoints changed to \$1,000, \$5,000, \$15,000, and \$50,000.

The value of other debt is asked at each wave. The question wording is the same at all waves, but the unfolding bracket questions vary. Two questions reveal whether the Respondent has any other debt and if so, the value of it:

a) "And do you [or your (husband/wife/partner)] have any debts that we haven't asked about, such as credit card

balances, medical debts, life insurance policy loans, loans from relatives, and so forth?"

b) "About how much would that amount to?"

From Wave 2 forward, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket ranges and entry points vary across waves. In Wave 1, no unfolding bracket questions are asked, but range card brackets may be coded if the Respondent refuses or does not know the value.

## HRS Variables Used

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HRS 1992:
V15237      M20:OTHR_DBTS_Y/N_NE:IND
V15238      M20A:OTHER_DEBTS_$_N:IND
V5237       M20:OTHR_DBTS_Y/N_NE:IMP
V5238       M20A:OTHER_DEBTS_$_N:IMP
AHEAD 1993:
B1787       K23. DEBTS: ANY
B1788       K24. DEBTS: TOTAL $
B1788C      CATEG: K24. DEBTS: TOTAL $
HRS 1994:
W15526      K19. Imputation Indicato
W15527      K20. Imputation Indicato
W5526       K19.OTHER DEBTS
W5527       K20.AMOUNT OF OTHER DEBT
W5528       K20a-K20c. Brackets
AHEAD 1995:
D4725       J81.DEBTS
D4726       J82.DEBTS $
D4727B      J82.DEBTS $/Bkt
HRS 1996:
E4726       J302.DEBTS
E4727       J303.DEBTS $
E4728B      J303.DEBTS $/Bkt
HRS 1998:
F5486       J302.DEBTS
F5487       J303.DEBTS $
F5488B      J303.(J82)DEBTS $-Bkt
HRS 2000:
G5846       J302.DEBTS
G5847       J303.DEBTS $
G5848       J303A. DK-500
G5849       J303Y1A. DK-5000
G5850       J303B. DK-50000
G5851       J303Y1B. DK-5000
G5852       J303D. DK-500
HRS 2002:
HQ477       R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
HQ478       R OR SP DEBTS AMOUNT
HQ479       DEBTS AMOUNT - MIN
HQ480       DEBTS AMOUNT - MAX
HQ481       DEBTS AMOUNT - RESULT
HU001       U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1     ASSET RECONCILIATION WHICH WRONG -1
HU002M2     ASSET RECONCILIATION WHICH WRONG -2
HU003       ASSET RECONCILIATION HOW MUCH
HU004       ASSET RECONCILIATION - MIN
HU005       ASSET RECONCILIATION - MAX

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HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
JQ478	R OR SP DEBTS AMOUNT
JQ479	DEBTS AMOUNT - MIN
JQ480	DEBTS AMOUNT - MAX
JQ481	DEBTS AMOUNT - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
KQ478	R OR SP DEBTS AMOUNT
KQ479	DEBTS AMOUNT - MIN
KQ480	DEBTS AMOUNT - MAX
KQ481	DEBTS AMOUNT - RESULT
KU001_1	ASSET RECONCILIATION-DEBTS
KU002_1	ASSET RECONCILIATION WHICH WRONG-DEBTS
KU003_1A	ASSET RECONCILIATION HOW MUCH -A-DEBTS
KU003_1B	ASSET RECONCILIATION HOW MUCH-B-DEBTS
KU004_1A	ASSET RECONCILIATION -MIN-A-DEBTS
KU004_1B	ASSET RECONCILIATION -MIN-B-DEBTS
KU005_1A	ASSET RECONCILIATION -MAX-A -DEBTS
KU005_1B	ASSET RECONCILIATION -MAX-B -DEBTS
KU006_1A	ASSET RECONCILIATION - RESULT-A-DEBTS

KU006_1B	ASSET RECONCILIATION - RESULT-B-DEBTS
KU022_1A	WHICH WAVE VALUE WAS WRONG-A-DEBTS
KU022_1B	WHICH WAVE VALUE WAS WRONG-B-DEBTS
HRS 2008:	
LQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
LQ478	R OR SP DEBTS AMOUNT
LQ479	DEBTS AMOUNT - MIN
LQ480	DEBTS AMOUNT - MAX
LQ481	DEBTS AMOUNT - RESULT
LU001_1	ASSET RECONCILIATION-DEBTS
LU002_1	ASSET RECONCILIATION WHICH WRONG-DEBTS
LU003_1A	ASSET RECONCILIATION HOW MUCH -A-DEBTS
LU003_1B	ASSET RECONCILIATION HOW MUCH-B-DEBTS
LU004_1A	ASSET RECONCILIATION -MIN-A-DEBTS
LU004_1B	ASSET RECONCILIATION -MIN-B-DEBTS
LU005_1A	ASSET RECONCILIATION -MAX-A -DEBTS
LU005_1B	ASSET RECONCILIATION -MAX-B -DEBTS
LU006_1A	ASSET RECONCILIATION - RESULT-A-DEBTS
LU006_1B	ASSET RECONCILIATION - RESULT-B-DEBTS
LU022_1A	WHICH WAVE WRONG-A-DEBTS
LU022_1B	WHICH WAVE VALUE WAS WRONG-B-DEBTS
HRS 2010:	
MQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
MQ478	R OR SP DEBTS AMOUNT
MQ479	DEBTS AMOUNT - MIN
MQ480	DEBTS AMOUNT - MAX
MQ481	DEBTS AMOUNT - RESULT
MU001_1	ASSET RECONCILIATION - STEM QUESTION -1
MU002_1	ASSET RECONCILIATION - WHICH WRONG-DEBTS
MU003_1A	ASSET RECONCILIATION - HOW MUCH -A-DEBTS
MU003_1B	ASSET RECONCILIATION - HOW MUCH-B-DEBTS
MU004_1A	ASSET RECONCILIATION - MIN-A-DEBTS
MU004_1B	ASSET RECONCILIATION - MIN-B-DEBTS
MU005_1A	ASSET RECONCILIATION - MAX-A -DEBTS
MU005_1B	ASSET RECONCILIATION - MAX-B -DEBTS
MU006_1A	ASSET RECONCILIATION - RESULT-A-DEBTS
MU006_1B	ASSET RECONCILIATION - RESULT-B-DEBTS
MU022_1A	WHICH WAVE WRONG-A-DEBTS
MU022_1B	WHICH WAVE VALUE WAS WRONG-B-DEBTS
HRS 2012:	
NQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE
NQ478	R OR SP DEBTS AMOUNT
NQ479	DEBTS AMOUNT - MIN
NQ480	DEBTS AMOUNT - MAX
NQ481	DEBTS AMOUNT - RESULT
NU001_1	ASSET RECONCILIATION - DEBTS
NU002_1	ASSET RECONCILIATION - WHICH WRONG-DEBTS
NU003_1A	ASSET RECONCILIATION - HOW MUCH -A-DEBTS
NU003_1B	ASSET RECONCILIATION - HOW MUCH-B-DEBTS
NU004_1A	ASSET RECONCILIATION - MIN-A-DEBTS
NU004_1B	ASSET RECONCILIATION - MIN-B-DEBTS
NU005_1A	ASSET RECONCILIATION - MAX-A -DEBTS
NU005_1B	ASSET RECONCILIATION - MAX-B -DEBTS
NU006_1A	ASSET RECONCILIATION - RESULT-A-DEBTS
NU006_1B	ASSET RECONCILIATION - RESULT-B-DEBTS
NU022_1A	WHICH WAVE WRONG-A-DEBTS
NU022_1B	WHICH WAVE VALUE WAS WRONG-B-DEBTS
HRS 2014:	
OQ477	R OR SP ANY DEBTS NOT ASKED ABOUT BEFORE

OQ478	R OR SP DEBTS AMOUNT
OQ479	DEBTS AMOUNT - MIN
OQ480	DEBTS AMOUNT - MAX
OQ481	DEBTS AMOUNT - RESULT
OU001_1	ASSET RECONCILIATION - DEBTS
OU002_1	ASSET RECONCILIATION - WHICH WRONG-DEBTS
OU003_1A	ASSET RECONCILIATION - HOW MUCH -A-DEBTS
OU003_1B	ASSET RECONCILIATION - HOW MUCH-B-DEBTS
OU004_1A	ASSET RECONCILIATION - MIN-A-DEBTS
OU004_1B	ASSET RECONCILIATION - MIN-B-DEBTS
OU005_1A	ASSET RECONCILIATION - MAX-A -DEBTS
OU005_1B	ASSET RECONCILIATION - MAX-B -DEBTS
OU006_1A	ASSET RECONCILIATION - RESULT-A-DEBTS
OU006_1B	ASSET RECONCILIATION - RESULT-B-DEBTS
OU022_1A	WHICH WAVE WRONG-A-DEBTS
OU022_1B	WHICH WAVE VALUE WAS WRONG-B-DEBTS

<b>Value of primary residence</b>
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Wave	Variable	Label	Type
1	H1AHOUS	H1AHOUS:W1 Assets:Primary Residence--Cross-wave	Cont
2	H2AHOUS	H2AHOUS:W2 Assets:Primary Residence--Cross-wave	Cont
3	H3AHOUS	H3AHOUS:W3 Assets:Primary Residence--Cross-wave	Cont
4	H4AHOUS	H4AHOUS:W4 Assets:Primary Residence--Cross-wave	Cont
5	H5AHOUS	H5AHOUS:W5 Assets:Primary Residence--Cross-wave	Cont
6	H6AHOUS	H6AHOUS:W6 Assets:Primary Residence--Cross-wave	Cont
7	H7AHOUS	H7AHOUS:W7 Assets:Primary Residence--Cross-wave	Cont
8	H8AHOUS	H8AHOUS:W8 Assets:Primary Residence--Cross-wave	Cont
9	H9AHOUS	H9AHOUS:W9 Assets:Primary Residence--Cross-wave	Cont
10	H10AHOUS	H10AHOUS:W10 Assets:Primary Residence--Cross-wave	Cont
11	H11AHOUS	H11AHOUS:W11 Assets:Primary Residence--Cross-wave	Cont
12	H12AHOUS	H12AHOUS:W12 Assets:Primary Residence--Cross-wave	Cont
1	H1AFHOUS	H1AFHOUS:W1 Assets Flag:Primary Residence--Cross-wave	Categ
2	H2AFHOUS	H2AFHOUS:W2 Assets Flag:Primary Residence--Cross-wave	Categ
3	H3AFHOUS	H3AFHOUS:W3 Assets Flag:Primary Residence--Cross-wave	Categ
4	H4AFHOUS	H4AFHOUS:W4 Assets Flag:Primary Residence--Cross-wave	Categ
5	H5AFHOUS	H5AFHOUS:W5 Assets Flag:Primary Residence--Cross-wave	Categ
6	H6AFHOUS	H6AFHOUS:W6 Assets Flag:Primary Residence--Cross-wave	Categ
7	H7AFHOUS	H7AFHOUS:W7 Assets Flag:Primary Residence--Cross-wave	Categ
8	H8AFHOUS	H8AFHOUS:W8 Assets Flag:Primary Residence--Cross-wave	Categ
9	H9AFHOUS	H9AFHOUS:W9 Assets Flag:Primary Residence--Cross-wave	Categ
10	H10AFHOUS	H10AFHOUS:W10 Assets Flag:Primary Residence--Cross-wave	Categ
11	H11AFHOUS	H11AFHOUS:W11 Assets Flag:Primary Residence--Cross-wave	Categ
12	H12AFHOUS	H12AFHOUS:W12 Assets Flag:Primary Residence--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AHOUS	12652	85686.96	97611.19	0.0	1400000.0
H2AHOUS	19642	84110.77	122869.55	0.0	5000000.0
H3AHOUS	17991	88722.92	116223.18	0.0	5000000.0
H4AHOUS	21384	100466.30	249521.89	0.0	20000000.0
H5AHOUS	19579	113534.95	248924.40	0.0	14000000.0
H6AHOUS	18165	129186.78	179234.53	0.0	10000000.0
H7AHOUS	20129	161335.97	341644.11	0.0	25000000.0
H8AHOUS	18469	195456.60	275968.05	0.0	6000000.0
H9AHOUS	17217	197820.67	445877.71	0.0	25000000.0
H10AHOUS	22034	162171.36	249093.66	0.0	10000000.0
H11AHOUS	20554	155147.66	231629.96	0.0	10000000.0
H12AHOUS	18747	164073.04	254028.33	0.0	12432508.0
H1AFHOUS	12652	2.16	2.11	1.0	9.0
H2AFHOUS	19642	2.28	2.14	1.0	9.0
H3AFHOUS	17991	2.22	2.09	1.0	9.0
H4AFHOUS	21384	2.23	2.10	1.0	9.0
H5AFHOUS	19579	2.21	2.09	1.0	9.0
H6AFHOUS	18165	2.23	2.08	1.0	9.0
H7AFHOUS	20129	2.24	2.08	1.0	9.0
H8AFHOUS	18469	2.23	2.08	1.0	9.0
H9AFHOUS	17217	2.26	2.09	1.0	9.0
H10AFHOUS	22034	2.55	2.30	1.0	9.0
H11AFHOUS	20554	2.54	2.26	1.0	9.0
H12AFHOUS	18747	2.58	2.29	1.0	9.0

## Categorical Variable Codes

Value	H1AFHOUS	H2AFHOUS	H3AFHOUS	H4AFHOUS	H5AFHOUS	H6AFHOUS	H7AFHOUS
1.Continuous value	9635	13301	12409	14726	13661	12601	13752
2.Complete bracket		1701	1495	1747	1408	1293	1623
3.Incomplete bracket		88	51	88	130	104	114
4.Range card bracket	178						
5.No value/bracket	315	177	239	337	330	354	330
6.No asset	2419	4141	3671	4257	3861	3587	4173
7.DK ownership	10	57	11	59	67	187	76
9.No Fin resp	95	177	115	170	122	39	61

Value	H8AFHOUS	H9AFHOUS	H10AFHOUS	H11AFHOUS	H12AFHOUS
1.Continuous value	12686	11596	13893	12928	11815
2.Complete bracket	1419	1478	1639	1540	1190
3.Incomplete bracket	115	155	171	171	170
5.No value/bracket	267	272	384	349	326
6.No asset	3904	3595	5585	5365	5017
7.DK ownership	30	58	67	60	62
9.No Fin resp	48	63	295	141	167

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of the Respondent's primary residence is assigned to HwAHOUS. The HwAFHOUS variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

From Wave 3 forward to determine ownership of a primary residence, we look at responses to questions about whether the person is in a nursing home and if so, whether s/he owns a home outside of the nursing home. In Waves 5-10, we found a discrepancy between what was reported on these questions and what was listed on the Tracker file, that is - some individuals said that they were in a nursing home (and did not own a home outside of the nursing home), but the Tracker file said they were not in a nursing home. We considered the information from Tracker to be the most accurate. [See Appendix A for a description of how many cases were affected by this change.]

## Cross Wave Differences in Original HRS Data

The value of the primary residence is asked at each wave. Questions reveal whether the Respondent owns her/his primary residence and if so, the value of it.

In all waves, there are several questions which ask the Respondent about ownership of the residence and its value,



depending on the type of home, e.g., a farm or ranch, mobile home, condominium, etc.

In Wave 1 the questions are asked in several places, all slightly different:

1a) "Do you [or your (husband/wife/partner)] own this (farm/ranch), do you own part of it, do you rent it, is it owned by a business, or what?"

1b) "Could you tell me the present value of this house and the immediately surrounding land? I mean, about what would it bring if it were sold today? would it bring if it were sold today?"

2a) "Do you [or your (husband/wife/partner)] own both this mobile home and site or lot, do you own only the mobile home, do you own only the site, do you rent both the home and site, or what?"

2b) "Could you tell me the present value of this mobile home (and site)? I mean, about what would it bring if it were sold today?"

3a) "Do you [and your (husband/wife/partner)] own this (house and lot/apartment), do you rent, or what?"

3b) "What is the present value of this (home and land/apartment/property)? I mean, about what would it bring if it were sold today?"

In Waves 2 and 3 the ownership questions are slightly different and all branch to one value question:

1a) "Do you [and your (husband/wife/partner)] own your home, rent it, or what?"

2a) "Do you [or your (husband/wife/partner)] own this (farm/ranch), do you own part of it, do you rent it, or what?"

3a) "Do you [or your (husband/wife/partner)] own both the mobile home and site, do you own only the home, do you rent both the home and site, or what?"

b) "What is its present value? I mean, about what would it bring if it were sold today?"

Beginning in Wave 4, the question wordings are the same but the question on mobile home value is a separate one from the value of a house or farm, and the unfolding brackets differ for the two types of property.

From Wave 2 forward, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket entry points vary across waves. In Wave 1, no unfolding bracket questions are asked, but range card brackets may be coded if the Respondent refuses or does not know the value.

In Waves 6 forward, some mobile home owners who did not report values were directed to the house value and subsequent bracket questions (if needed), which are different from those for mobile homes. Here, we imputed missing values using whichever series of brackets they were given. There were also some cases in Waves 6 and 11 where values were given for both the mobile home and house questions. After examining the quality of the data in these cases, we decided that using the highest value was most appropriate.

**HRS Variables Used**

HRS 1992:  
   V10605           D2A:VALUE\_OF\_PROPERT:IND  
   V10612           D5:FRM\_VAL:HOUSE LAN:IND  
   V10616           D8:MBL\_HM/SITE/BOTH :IND  
   V10619           8B:MBL\_HM\_SITE:VALUE:IND  
   V10632           D10:OWN\_MBL\_HM:VALUE:IND  
   V10640           D15:OWN\_HM SITE:VALU:IND  
   V10701           D17:OWN/RENT:LOT/ETC:IND  
   V10712           D20:VALUE\_OF\_PROPERT:IND  
   V603             D2:OWN RANCH/FARM  
   V605             D2A:VALUE OF PROPERT:IMP  
   V612             D5:FRM:VALUE-HOUSE/L:IMP  
   V616             D8:OWN MBL HM/SITE/B:IMP  
   V619             D8B:MH SITE:\$VAL OF :IMP  
   V632             D10:OWN MBL HM: VALU:IMP  
   V640             D15:OWN HM SITE:\$V:IMP  
   V701             D17:LOT/APRTMNT:OWN/:IMP  
   V712             D20:VALUE-R'S PROPER:IMP  
 AHEAD 1993:  
   B1067           F10. MOBILE HOME & SITE: OWN/RENT  
   B1087           F23. OWN OR RENT FARM/RANCH?  
   B1088           F23a. OWN FARMHOUSE?  
   B1091           F25. OWN OR RENT HOME/APT?  
   B1099           F26. VALUE OF HOME AND LAND  
   B1099C          CATEG: F26. VALUE OF HOME AND LAND  
 HRS 1994:  
   W607           D3.OWN OR RENT CURRENT H  
   W609           D4.OWN PART/ALL OR RENT  
   W611           D4b.OWN HOUSE AND SURROU  
   W613           D5.OWN/RENT MOBILE HOME/  
   W614           D6.PRESENT VALUE OF MOBI  
   W615           D6a-D6d. Brackets  
 AHEAD 1995:  
   D2225           F2.TYPE HOME  
   D2226           F3.OWN-RENT HOME  
   D2229           F4.OWN FARM  
   D2246           F6.HOME VALUE \$  
   D2247B          F6.HOME VALUE \$/Bkt  
 HRS 1996:  
   E2225           F2.TYPE HOME  
   E2226           F3.OWN-RENT HOME  
   E2229           F4.OWN FARM  
   E2246           F6.HOME VALUE \$  
   E2247B          F6.HOME VALUE \$/Bkt  
 HRS 1998:  
   F2742           F2.TYPE HOME  
   F2743           F3.OWN-RENT HOME  
   F2746           F4.OWN FARM  
   F2751           F5.OWN MOBILE HOME AND SITE  
   F2753           F5B.MOBILE HOME VALUE \$  
   F2754B          F5B.MOBILE HOME VALUE \$-Bkt  
   F2760           F6.HOME VALUE \$  
   F2761B          F6.HOME VALUE \$-Bkt  
 HRS 2000:  
   G3060           F2.TYPE HOME  
   G3061           F3.OWN-RENT HOME  
   G3064           F4.OWN FARM  
   G3069           F5.OWN MOBILE HOME-SITE

G3071	F5B.MOBILE HOME VALUE \$
G3072	F5C.F5 DK-1
G3073	F5D.F5 DK-2
G3074	F5E.F5 DK-3
G3075	F5F.F5 DK-4
G3078	F6.HOME VALUE \$
G3079	F6DX.F6 DK-4
G3080	F6A.F6 DK-1
G3081	F6B.F6 DK-2
G3082	F6C.F6 DK-3
G3083	F6AX.F6 DK-1
G3084	F6D.F6 DK-4
HRS 2002:	
HH002	TYPE HOME
HH004	OWN-RENT HOME
HH008	OWN PART OR ALL/RENT FARM
HH014	OWN MOBILE HOME/SITE
HH016	MOBILE HOME PRESENT VALUE
HH017	MOBILE HOME PRESENT VALUE- MIN
HH018	MOBILE HOME PRESENT VALUE- MAX
HH019	MOBILE HOME PRESENT VALUE- RESULT
HH020	HOME PRESENT VALUE
HH021	HOME PRESENT VALUE- MIN
HH022	HOME PRESENT VALUE- MAX
HH023	HOME PRESENT VALUE- RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JH002	TYPE HOME
JH004	OWN-RENT HOME
JH008	OWN PART OR ALL/RENT FARM
JH014	OWN MOBILE HOME/SITE
JH016	MOBILE HOME PRESENT VALUE
JH017	MOBILE HOME PRESENT VALUE- MIN
JH018	MOBILE HOME PRESENT VALUE- MAX
JH019	MOBILE HOME PRESENT VALUE- RESULT
JH020	HOME PRESENT VALUE
JH021	HOME PRESENT VALUE- MIN
JH022	HOME PRESENT VALUE- MAX
JH023	HOME PRESENT VALUE- RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1

JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KH002	TYPE HOME
KH004	OWN-RENT HOME
KH008	OWN PART OR ALL/RENT FARM
KH014	OWN MOBILE HOME/SITE
KH016	MOBILE HOME PRESENT VALUE
KH017	MOBILE HOME PRESENT VALUE- MIN
KH018	MOBILE HOME PRESENT VALUE- MAX
KH019	MOBILE HOME PRESENT VALUE- RESULT
KH020	HOME PRESENT VALUE
KH021	HOME PRESENT VALUE- MIN
KH022	HOME PRESENT VALUE- MAX
KH023	HOME PRESENT VALUE- RESULT
KU001_12	ASSET RECONCILIATION-HOME
KU001_16	ASSET RECONCILIATION-MOBILE HOME
KU002_12	ASSET RECON WHICH WRONG-HOME
KU002_16	ASSET RECON WHICH WRONG-MOBILE HOME
KU003_12A	ASSET RECON HOW MUCH -A-HOME
KU003_12B	ASSET RECON HOW MUCH-B-HOME
KU003_16A	ASSET RECON HOW MUCH -A-MOBILE HOME
KU003_16B	ASSET RECON HOW MUCH-B-MOBILE HOME
KU004_12A	ASSET RECON -MIN-A-HOME
KU004_12B	ASSET RECON-MIN-B-HOME
KU004_16A	ASSET RECON -MIN-A-MOBILE HOME
KU004_16B	ASSET RECON -MIN-B-MOBILE HOME
KU005_12A	ASSET RECON -MAX-A -HOME
KU005_12B	ASSET RECON-MAX-B -HOME
KU005_16A	ASSET RECON -MAX-A -MOBILE HOME
KU005_16B	ASSET RECON -MAX-B -MOBILE HOME
KU006_12A	ASSET RECON - RESULT-A-HOME
KU006_12B	ASSET RECON- RESULT-B-HOME
KU006_16A	ASSET RECON - RESULT-A-MOBILE HOME
KU006_16B	ASSET RECON - RESULT-B-MOBILE HOME
KU022_12A	WHICH WAVE WRONG-A-HOME
KU022_12B	WHICH WAVE WRONG-B-HOME
KU022_16A	WHICH WAVE WRONG-A-MOBILE HOME

KU022_16B	WHICH WAVE WRONG-B-MOBILE HOME
HRS 2008:	
LH002	TYPE HOME
LH004	OWN-RENT HOME
LH008	OWN PART OR ALL/RENT FARM
LH014	OWN MOBILE HOME/SITE
LH016	MOBILE HOME PRESENT VALUE
LH017	MOBILE HOME PRESENT VALUE- MIN
LH018	MOBILE HOME PRESENT VALUE- MAX
LH019	MOBILE HOME PRESENT VALUE- RESULT
LH020	HOME PRESENT VALUE
LH021	HOME PRESENT VALUE- MIN
LH022	HOME PRESENT VALUE- MAX
LH023	HOME PRESENT VALUE- RESULT
LU001_12	ASSET RECONCILIATION-HOME
LU001_16	ASSET RECONCILIATION-MOBILE HOME
LU002_12	ASSET RECONCILIATION WHICH WRONG-HOME
LU002_16	ASSET RECONCILIATION WHICH WRONG-MOBILE HOME
LU003_12A	ASSET RECONCILIATION HOW MUCH -A-HOME
LU003_12B	ASSET RECONCILIATION HOW MUCH-B-HOME
LU003_16A	ASSET RECONCILIATION HOW MUCH -A-MOBILE HOME
LU003_16B	ASSET RECONCILIATION HOW MUCH-B-MOBILE HOME
LU004_12A	ASSET RECON -MIN-A-HOME
LU004_12B	ASSET RECON-MIN-B-HOME
LU004_16A	ASSET RECON -MIN-A-MOBILE HOME
LU004_16B	ASSET RECON -MIN-B-MOBILE HOME
LU005_12A	ASSET RECON -MAX-A -HOME
LU005_12B	ASSET RECON-MAX-B -HOME
LU005_16A	ASSET RECON -MAX-A -MOBILE HOME
LU005_16B	ASSET RECON -MAX-B -MOBILE HOME
LU006_12A	ASSET RECON - RESULT-A-HOME
LU006_12B	ASSET RECON- RESULT-B-HOME
LU006_16A	ASSET RECON - RESULT-A-MOBILE HOME
LU006_16B	ASSET RECON - RESULT-B-MOBILE HOME
LU022_12A	WHICH WAVE WRONG-A-HOME
LU022_12B	WHICH WAVE WRONG-B-HOME
LU022_16A	WHICH WAVE WRONG-A-MOBILE HOME
LU022_16B	WHICH WAVE WRONG-B-MOBILE HOME
HRS 2010:	
MH002	TYPE HOME
MH004	OWN-RENT HOME
MH008	OWN PART OR ALL/RENT FARM
MH014	OWN MOBILE HOME/SITE
MH016	MOBILE HOME PRESENT VALUE
MH017	MOBILE HOME PRESENT VALUE- MIN
MH018	MOBILE HOME PRESENT VALUE- MAX
MH019	MOBILE HOME PRESENT VALUE- RESULT
MH020	HOME PRESENT VALUE
MH021	HOME PRESENT VALUE- MIN
MH022	HOME PRESENT VALUE- MAX
MH023	HOME PRESENT VALUE- RESULT
MU001_12	ASSET RECONCILIATION - HOME
MU001_16	ASSET RECONCILIATION - MOBILE HOME
MU002_12	ASSET RECONCILIATION - WHICH WRONG-HOME
MU002_16	ASSET RECONCILIATION - WHICH WRONG-MOBILE HOME
MU003_12A	ASSET RECONCILIATION - HOW MUCH -A-HOME
MU003_12B	ASSET RECONCILIATION - HOW MUCH-B-HOME
MU003_16A	ASSET RECONCILIATION - HOW MUCH -A-MOBILE HOME
MU003_16B	ASSET RECONCILIATION - HOW MUCH-B-MOBILE HOME

MU004_12A	ASSET RECONCILIATION - MIN-A-HOME
MU004_12B	ASSET RECONCILIATION - MIN-B-HOME
MU004_16A	ASSET RECONCILIATION - MIN-A-MOBILE HOME
MU004_16B	ASSET RECONCILIATION - MIN-B-MOBILE HOME
MU005_12A	ASSET RECONCILIATION - MAX-A -HOME
MU005_12B	ASSET RECONCILIATION - MAX-B -HOME
MU005_16A	ASSET RECONCILIATION - MAX-A -MOBILE HOME
MU005_16B	ASSET RECONCILIATION - MAX-B -MOBILE HOME
MU006_12A	ASSET RECONCILIATION - RESULT-A-HOME
MU006_12B	ASSET RECONCILIATION - RESULT-B-HOME
MU006_16A	ASSET RECONCILIATION - RESULT-A-MOBILE HOME
MU006_16B	ASSET RECONCILIATION - RESULT-B-MOBILE HOME
MU022_12A	WHICH WAVE WRONG-A-HOME
MU022_12B	WHICH WAVE WRONG-B-HOME
MU022_16A	WHICH WAVE WRONG-A-MOBILE HOME
MU022_16B	WHICH WAVE WRONG-B-MOBILE HOME
HRS 2012:	
NH002	TYPE HOME
NH004	OWN-RENT HOME
NH008	OWN PART OR ALL/RENT FARM
NH014	OWN MOBILE HOME/SITE
NH016	MOBILE HOME PRESENT VALUE
NH017	MOBILE HOME PRESENT VALUE- MIN
NH018	MOBILE HOME PRESENT VALUE- MAX
NH019	MOBILE HOME PRESENT VALUE- RESULT
NH020	HOME PRESENT VALUE
NH021	HOME PRESENT VALUE- MIN
NH022	HOME PRESENT VALUE- MAX
NH023	HOME PRESENT VALUE- RESULT
NU001_12	ASSET RECONCILIATION - HOME
NU001_16	ASSET RECONCILIATION - MOBILE HOME
NU002_12	ASSET RECONCILIATION - WHICH WRONG-HOME
NU002_16	ASSET RECONCILIATION - WHICH WRONG-MOBILE HOME
NU003_12A	ASSET RECONCILIATION - HOW MUCH -A-HOME
NU003_12B	ASSET RECONCILIATION - HOW MUCH-B-HOME
NU003_16A	ASSET RECONCILIATION - HOW MUCH -A-MOBILE HOME
NU003_16B	ASSET RECONCILIATION - HOW MUCH-B-MOBILE HOME
NU004_12A	ASSET RECONCILIATION - MIN-A-HOME
NU004_12B	ASSET RECONCILIATION - MIN-B-HOME
NU004_16A	ASSET RECONCILIATION - MIN-A-MOBILE HOME
NU004_16B	ASSET RECONCILIATION - MIN-B-MOBILE HOME
NU005_12A	ASSET RECONCILIATION - MAX-A -HOME
NU005_12B	ASSET RECONCILIATION - MAX-B -HOME
NU005_16A	ASSET RECONCILIATION - MAX-A -MOBILE HOME
NU005_16B	ASSET RECONCILIATION - MAX-B -MOBILE HOME
NU006_12A	ASSET RECONCILIATION - RESULT-A-HOME
NU006_12B	ASSET RECONCILIATION - RESULT-B-HOME
NU006_16A	ASSET RECONCILIATION - RESULT-A-MOBILE HOME
NU006_16B	ASSET RECONCILIATION - RESULT-B-MOBILE HOME
NU022_12A	WHICH WAVE WRONG-A-HOME
NU022_12B	WHICH WAVE WRONG-B-HOME
NU022_16A	WHICH WAVE WRONG-A-MOBILE HOME
NU022_16B	WHICH WAVE WRONG-B-MOBILE HOME
HRS 2014:	
OH002	TYPE HOME
OH004	OWN-RENT HOME
OH008	OWN PART OR ALL/RENT FARM
OH014	OWN MOBILE HOME/SITE
OH016	MOBILE HOME PRESENT VALUE

OH017	MOBILE HOME PRESENT VALUE- MIN
OH018	MOBILE HOME PRESENT VALUE- MAX
OH019	MOBILE HOME PRESENT VALUE- RESULT
OH020	HOME PRESENT VALUE
OH021	HOME PRESENT VALUE- MIN
OH022	HOME PRESENT VALUE- MAX
OH023	HOME PRESENT VALUE- RESULT
OU001_12	ASSET RECONCILIATION - HOME
OU001_16	ASSET RECONCILIATION - MOBILE HOME
OU002_12	ASSET RECONCILIATION - WHICH WRONG-HOME
OU002_16	ASSET RECONCILIATION - WHICH WRONG-MOBILE HOME
OU003_12A	ASSET RECONCILIATION - HOW MUCH -A-HOME
OU003_12B	ASSET RECONCILIATION - HOW MUCH-B-HOME
OU003_16A	ASSET RECONCILIATION - HOW MUCH -A-MOBILE HOME
OU003_16B	ASSET RECONCILIATION - HOW MUCH-B-MOBILE HOME
OU004_12A	ASSET RECONCILIATION - MIN-A-HOME
OU004_12B	ASSET RECONCILIATION - MIN-B-HOME
OU004_16A	ASSET RECONCILIATION - MIN-A-MOBILE HOME
OU004_16B	ASSET RECONCILIATION - MIN-B-MOBILE HOME
OU005_12A	ASSET RECONCILIATION - MAX-A -HOME
OU005_12B	ASSET RECONCILIATION - MAX-B -HOME
OU005_16A	ASSET RECONCILIATION - MAX-A -MOBILE HOME
OU005_16B	ASSET RECONCILIATION - MAX-B -MOBILE HOME
OU006_12A	ASSET RECONCILIATION - RESULT-A-HOME
OU006_12B	ASSET RECONCILIATION - RESULT-B-HOME
OU006_16A	ASSET RECONCILIATION - RESULT-A-MOBILE HOME
OU006_16B	ASSET RECONCILIATION - RESULT-B-MOBILE HOME
OU022_12A	WHICH WAVE WRONG-A-HOME
OU022_12B	WHICH WAVE WRONG-B-HOME
OU022_16A	WHICH WAVE WRONG-A-MOBILE HOME
OU022_16B	WHICH WAVE WRONG-B-MOBILE HOME

## Tracker:

GNURSHM	2000 NURSING HOME STATUS
HNURSHM	2002 NURSING HOME STATUS
JNURSHM	2004 NURSING HOME STATUS
KNURSHM	2006 NURSING HOME STATUS
LNURSHM	2008 NURSING HOME STATUS
MNURSHM	2010 NURSING HOME STATUS
NNURSHM	2012 NURSING HOME STATUS
ONURSHM	2014 NURSING HOME STATUS

<b>Value of all mortgages/land contracts (primary residence)</b>
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Wave	Variable	Label	Type
1	H1AMORT	H1AMORT:W1 Assets:Total Mortgage--Cross-wave	Cont
2	H2AMORT	H2AMORT:W2 Assets:Total Mortgage--Cross-wave	Cont
3	H3AMORT	H3AMORT:W3 Assets:Total Mortgage--Cross-wave	Cont
4	H4AMORT	H4AMORT:W4 Assets:Total Mortgage--Cross-wave	Cont
5	H5AMORT	H5AMORT:W5 Assets:Total Mortgage--Cross-wave	Cont
6	H6AMORT	H6AMORT:W6 Assets:Total Mortgage--Cross-wave	Cont
7	H7AMORT	H7AMORT:W7 Assets:Total Mortgage--Cross-wave	Cont
8	H8AMORT	H8AMORT:W8 Assets:Total Mortgage--Cross-wave	Cont
9	H9AMORT	H9AMORT:W9 Assets:Total Mortgage--Cross-wave	Cont
10	H10AMORT	H10AMORT:W10 Assets:Total Mortgage--Cross-wave	Cont
11	H11AMORT	H11AMORT:W11 Assets:Total Mortgage--Cross-wave	Cont
12	H12AMORT	H12AMORT:W12 Assets:Total Mortgage--Cross-wave	Cont
1	H1AFMORT	H1AFMORT:W1 Asst Flag: Total Mortgage	Categ
2	H2AFMORT	H2AFMORT:W2 Asst Flag: Total Mortgage	Categ
3	H3AFMORT	H3AFMORT:W3 Asst Flag: Total Mortgage	Categ
4	H4AFMORT	H4AFMORT:W4 Asst Flag: Total Mortgage	Categ
5	H5AFMORT	H5AFMORT:W5 Asst Flag: Total Mortgage	Categ
6	H6AFMORT	H6AFMORT:W6 Asst Flag: Total Mortgage	Categ
7	H7AFMORT	H7AFMORT:W7 Asst Flag: Total Mortgage	Categ
8	H8AFMORT	H8AFMORT:W8 Asst Flag: Total Mortgage	Categ
9	H9AFMORT	H9AFMORT:W9 Asst Flag: Total Mortgage	Categ
10	H10AFMORT	H10AFMORT:W10 Asst Flag: Total Mortgage	Categ
11	H11AFMORT	H11AFMORT:W11 Asst Flag: Total Mortgage	Categ
12	H12AFMORT	H12AFMORT:W12 Asst Flag: Total Mortgage	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AMORT	12652	20599.61	42486.81	0.0	1070000.0
H2AMORT	19642	14448.87	71309.13	0.0	6000000.0
H3AMORT	17991	14126.71	38909.61	0.0	1000000.0
H4AMORT	21384	17770.05	43932.75	0.0	1000000.0
H5AMORT	19579	19333.82	48265.62	0.0	1200000.0
H6AMORT	18165	21056.64	53161.36	0.0	930000.0
H7AMORT	20129	29780.29	67358.50	0.0	1300000.0
H8AMORT	18469	33325.29	80175.10	0.0	1250000.0
H9AMORT	17217	34868.78	87737.86	0.0	3000000.0
H10AMORT	22034	40437.64	97182.30	0.0	3250000.0
H11AMORT	20554	37669.69	86572.97	0.0	1100000.0
H12AMORT	18747	35154.39	90196.98	0.0	5060000.0
H1AFMORT	12652	0.57	0.93	0.0	9.0
H2AFMORT	19642	0.41	0.98	0.0	9.0
H3AFMORT	17991	0.38	0.88	0.0	9.0
H4AFMORT	21384	0.41	0.95	0.0	9.0
H5AFMORT	19579	0.40	0.88	0.0	9.0
H6AFMORT	18165	0.36	0.71	0.0	9.0
H7AFMORT	20129	0.41	0.75	0.0	9.0
H8AFMORT	18469	0.39	0.72	0.0	9.0
H9AFMORT	17217	0.39	0.77	0.0	9.0
H10AFMORT	22034	0.48	1.14	0.0	9.0
H11AFMORT	20554	0.40	0.90	0.0	9.0
H12AFMORT	18747	0.40	0.98	0.0	9.0



## Categorical Variable Codes

Value	H1AFMORT	H2AFMORT	H3AFMORT	H4AFMORT	H5AFMORT	H6AFMORT	H7AFMORT
0.No asset	6725	13662	12893	14903	13550	12842	13499
1.No imputations	5340	5057	4239	5410	4996	4304	5502
2.Some imputation	492	746	744	901	911	979	1067
9.No Fin Resp	95	177	115	170	122	40	61

Value	H8AFMORT	H9AFMORT	H10AFMORT	H11AFMORT	H12AFMORT
0.No asset	12619	11895	14700	14199	13276
1.No imputations	4923	4438	6050	5414	4627
2.Some imputation	879	821	989	800	677
9.No Fin Resp	48	63	295	141	167

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of all mortgages is assigned to HwAMORT. HwAFMORT is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

Both a 1st and 2nd mortgage can be reported in the data. HwAMORT sums the 1st and 2nd mortgages.

## Cross Wave Differences in Original HRS Data

The values of first and second mortgages are asked at each wave. Questions reveal whether the Respondent has a first and second mortgage and if so, the value of them.

In Wave 1, the questions ask:

- a) "Is there a mortgage or land contract on this (home and land/apartment/ property)?" [NOTE: If the Respondent asks, do not include home equity loans or lines of credit]
- b) "How much is still owed on this loan?"
- c) "In addition to your (mortgage/land contract) do you have a second mortgage or a land contract on this property? (Please do not include any home equity lines of credit.)"
- d) "How much is still owed on this loan?"

In Wave 2A, the questions ask:

- a) "Are you paying anything on a mortgage or other loan on [this property]?"
- b) "About how much do you still owe on this mortgage or loan?"
- c) "In addition to your mortgage or loan do you have a second mortgage or a land contract on this property?"
- d) "About how much do you still owe on that loan?"

Beginning in Wave 2H, the ownership questions cover 1st mortgage, 2nd mortgage and other loans. Up to 3 loans may be specified:

- a) "Do you have a mortgage, land contract, second mortgage or any other loan that uses the property as collateral? Please do not include any home equity lines of credit."

Beginning in Wave 9, a qualifying statement was added to this question, which says "Do not include reverse mortgages."

- b) [If 1st mortgage] "About how much do you still owe on that mortgage or land contract?"
- c) [If 2nd mortgage] "About how much do you still owe on that second mortgage?"

From Wave 2H forward, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket entry points vary across waves. In Wave 1, no unfolding bracket questions are asked, but range card brackets may be coded if the Respondent refuses or does not know the value.

## HRS Variables Used

### HRS 1992:

V10722	D25:MORTGAG/LNLCNTRC:IND
V10723	D26:1ST_MORT:\$STILOW:IND
V10729	D30:2ND_MORT/LNDCNTC:IND
V10730	D26:2ND_LOAN:\$OWED :IND
V722	D25:MORTGAGE/LND CON:IMP
V723	D26:1ST MORT:\$STILL :IMP
V729	D30:2ND MORT/LND CON:IMP
V730	D26:2ND LOAN:\$STILL :IMP

### AHEAD 1993:

B1067	F10. MOBILE HOME & SITE: OWN/RENT
B1087	F23. OWN OR RENT FARM/RANCH?
B1088	F23a. OWN FARMHOUSE?
B1091	F25. OWN OR RENT HOME/APT?
B1121	F30. MORTGAGE ON HOME
B1126	F34. AMOUNT STILL OWE ON MORTGAGE
B1127	F35. SECOND MORTGAGE?
B1131	F36. AMOUNT STILL OWE ON SECOND MORTGAGE

### HRS 1994:

W10616	D7/1. Imputation indicat
W10617	D7/2.. Imputation indica
W10622	D7d. Imputation indicato
W10626	D9c. Imputation indicato
W616	D7.MORTGAGE OR LAND CONT
W617	D7.MORTGAGE OR LAND CONT
W622	D7d.STILL OWE ON MORTGAG

W623	D7d1-D7d3. Brackets
W626	D9c.STILL OWE ON SECOND
W627	D9c1-D9c3. Brackets
AHEAD 1995:	
D2251M1	F7.HOME MORTGAGE
D2251M2	F7.HOME MORTGAGE
D2256	F7D.\$ OWN ON MORTGAGE
D2257B	F7D.\$ OWN ON MORTGAGE/Bkt
D2263	F9C.\$ OWN ON 2ND MORTGAGE
D2264B	F9C.\$ OWN ON 2ND MORTGAGE/Bkt
HRS 1996:	
E2251M1	F7.HOME MORTGAGE
E2251M2	F7.HOME MORTGAGE
E2251M3	F7.HOME MORTGAGE
E2256	F7D.\$ OWE ON MORTGAGE
E2257B	F7D.\$ OWE ON MORTGAGE/Bkt
E2263	F9C.\$ OWE ON 2ND MORTGAGE
E2264B	F9C.\$ OWE ON 2ND MORTGAGE/Bkt
HRS 1998:	
F2768M1	F7.HOME MORTGAGE
F2768M2	F7.HOME MORTGAGE
F2773	F7D.\$ OWE ON MORTGAGE
F2774B	F7D.\$ OWE ON MORTGAGE-Bkt
F2780	F9C.\$ OWN ON 2ND MORTGAGE
F2781B	F9C.\$ OWN ON 2ND MORTGAGE-Bkt
HRS 2000:	
G3086M1	F7.HOME MORTGAGE
G3086M2	F7.HOME MORTGAGE
G3091	F7D.\$ OWE ON MORTGAGE
G3092	F7E. F7E DK-1
G3093	F7F. F7E DK-2
G3094	F7Y1F. F7E DK-3
G3098	F9C.\$ OWE ON 2ND MORTGAGE
G3099	F9D. F9C DK-1
G3100	F9E. F9C DK-2
G3101	F9F. F9C DK-3
HRS 2002:	
HH024M1	LOAN-WITH PROPERTY AS COLLATERAL
HH024M2	LOAN-WITH PROPERTY AS COLLATERAL
HH024M3	LOAN-WITH PROPERTY AS COLLATERAL
HH032	HOW MUCH IS STILL OWED ON MORTGAGE
HH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
HH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
HH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
HH042	MONEY OWED ON 2ND PROPERTY LOAN
HH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
HH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
HH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
JH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2

JH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
JH032	HOW MUCH IS STILL OWED ON MORTGAGE
JH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
JH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
JH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
JH042	MONEY OWED ON 2ND PROPERTY LOAN
JH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
JH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
JH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
KH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
KH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
KH032	HOW MUCH IS STILL OWED ON MORTGAGE
KH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
KH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
KH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
KH042	MONEY OWED ON 2ND PROPERTY LOAN
KH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
KH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
KH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
KU001_13	ASSET RECONCILIATION-MORTGAGE1
KU001_14	ASSET RECONCILIATION-MORTGAGE2

KU002_13	ASSET RECON WHICH WRONG-MORTGAGE1
KU002_14	ASSET RECON WHICH WRONG-MORTGAGE2
KU003_13A	ASSET RECON HOW MUCH -A-MORTGAGE1
KU003_13B	ASSET RECON HOW MUCH-B-MORTGAGE1
KU003_14A	ASSET RECON HOW MUCH -A-MORTGAGE2
KU003_14B	ASSET RECON HOW MUCH-B-MORTGAGE2
KU004_13A	ASSET RECON -MIN-A-MORTGAGE1
KU004_13B	ASSET RECON-MIN-B-MORTGAGE1
KU004_14A	ASSET RECON -MIN-A-MORTGAGE2
KU004_14B	ASSET RECON -MIN-B-MORTGAGE2
KU005_13A	ASSET RECON -MAX-A -MORTGAGE1
KU005_13B	ASSET RECON-MAX-B -MORTGAGE1
KU005_14A	ASSET RECON -MAX-A -MORTGAGE2
KU005_14B	ASSET RECON -MAX-B -MORTGAGE2
KU006_13A	ASSET RECON - RESULT-A-MORTGAGE1
KU006_13B	ASSET RECON- RESULT-B-MORTGAGE1
KU006_14A	ASSET RECON - RESULT-A-MORTGAGE2
KU006_14B	ASSET RECON - RESULT-B-MORTGAGE2
KU022_13A	WHICH WAVE WRONG-A-MORTGAGE1
KU022_13B	WHICH WAVE WRONG-B-MORTGAGE1
KU022_14A	WHICH WAVE WRONG-A-MORTGAGE2
KU022_14B	WHICH WAVE WRONG-B-MORTGAGE2
HRS 2008:	
LH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
LH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
LH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
LH032	HOW MUCH IS STILL OWED ON MORTGAGE
LH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
LH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
LH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
LH042	MONEY OWED ON 2ND PROPERTY LOAN
LH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
LH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
LH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
LU001_13	ASSET RECONCILIATION-MORTGAGE1
LU001_14	ASSET RECONCILIATION-MORTGAGE2
LU002_13	ASSET RECONCILIATION WHICH WRONG-MORTGAGE1
LU002_14	ASSET RECONCILIATION WHICH WRONG-MORTGAGE2
LU003_13A	ASSET RECONCILIATION HOW MUCH -A-MORTGAGE1
LU003_13B	ASSET RECONCILIATION HOW MUCH-B-MORTGAGE1
LU003_14A	ASSET RECONCILIATION HOW MUCH -A-MORTGAGE2
LU003_14B	ASSET RECONCILIATION HOW MUCH-B-MORTGAGE2
LU004_13A	ASSET RECON -MIN-A-MORTGAGE1
LU004_13B	ASSET RECON-MIN-B-MORTGAGE1
LU004_14A	ASSET RECON -MIN-A-MORTGAGE2
LU004_14B	ASSET RECON -MIN-B-MORTGAGE2
LU005_13A	ASSET RECON -MAX-A -MORTGAGE1
LU005_13B	ASSET RECON-MAX-B -MORTGAGE1
LU005_14A	ASSET RECON -MAX-A -MORTGAGE2
LU005_14B	ASSET RECON -MAX-B -MORTGAGE2
LU006_13A	ASSET RECON - RESULT-A-MORTGAGE1
LU006_13B	ASSET RECON- RESULT-B-MORTGAGE1
LU006_14A	ASSET RECON - RESULT-A-MORTGAGE2
LU006_14B	ASSET RECON - RESULT-B-MORTGAGE2
LU022_13A	WHICH WAVE WRONG-A-MORTGAGE1
LU022_13B	WHICH WAVE WRONG-B-MORTGAGE1
LU022_14A	WHICH WAVE WRONG-A-MORTGAGE2
LU022_14B	WHICH WAVE WRONG-B-MORTGAGE2
HRS 2010:	

MH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
MH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
MH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
MH032	HOW MUCH IS STILL OWED ON MORTGAGE
MH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
MH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
MH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
MH042	MONEY OWED ON 2ND PROPERTY LOAN
MH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
MH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
MH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
MU001_13	ASSET RECONCILIATION - MORTGAGE1
MU001_14	ASSET RECONCILIATION - MORTGAGE2
MU002_13	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE1
MU002_14	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE2
MU003_13A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE1
MU003_13B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE1
MU003_14A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE2
MU003_14B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE2
MU004_13A	ASSET RECONCILIATION - MIN-A-MORTGAGE1
MU004_13B	ASSET RECONCILIATION - MIN-B-MORTGAGE1
MU004_14A	ASSET RECONCILIATION - MIN-A-MORTGAGE2
MU004_14B	ASSET RECONCILIATION - MIN-B-MORTGAGE2
MU005_13A	ASSET RECONCILIATION - MAX-A -MORTGAGE1
MU005_13B	ASSET RECONCILIATION - MAX-B -MORTGAGE1
MU005_14A	ASSET RECONCILIATION - MAX-A -MORTGAGE2
MU005_14B	ASSET RECONCILIATION - MAX-B -MORTGAGE2
MU006_13A	ASSET RECONCILIATION - RESULT-A-MORTGAGE1
MU006_13B	ASSET RECONCILIATION - RESULT-B-MORTGAGE1
MU006_14A	ASSET RECONCILIATION - RESULT-A-MORTGAGE2
MU006_14B	ASSET RECONCILIATION - RESULT-B-MORTGAGE2
MU022_13A	WHICH WAVE WRONG-A-MORTGAGE1
MU022_13B	WHICH WAVE WRONG-B-MORTGAGE1
MU022_14A	WHICH WAVE WRONG-A-MORTGAGE2
MU022_14B	WHICH WAVE WRONG-B-MORTGAGE2
HRS 2012:	
NH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
NH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
NH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
NH032	HOW MUCH IS STILL OWED ON MORTGAGE
NH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
NH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
NH035	HOW MUCH STILL OWED ON MORTGAGE- RESULT
NH042	MONEY OWED ON 2ND PROPERTY LOAN
NH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
NH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
NH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
NU001_13	ASSET RECONCILIATION - MORTGAGE1
NU001_14	ASSET RECONCILIATION - MORTGAGE2
NU002_13	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE1
NU002_14	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE2
NU003_13A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE1
NU003_13B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE1
NU003_14A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE2
NU003_14B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE2
NU004_13A	ASSET RECONCILIATION - MIN-A-MORTGAGE1
NU004_13B	ASSET RECONCILIATION - MIN-B-MORTGAGE1
NU004_14A	ASSET RECONCILIATION - MIN-A-MORTGAGE2
NU004_14B	ASSET RECONCILIATION - MIN-B-MORTGAGE2

NU005_13A	ASSET RECONCILIATION - MAX-A -MORTGAGE1
NU005_13B	ASSET RECONCILIATION - MAX-B -MORTGAGE1
NU005_14A	ASSET RECONCILIATION - MAX-A -MORTGAGE2
NU005_14B	ASSET RECONCILIATION - MAX-B -MORTGAGE2
NU006_13A	ASSET RECONCILIATION - RESULT-A-MORTGAGE1
NU006_13B	ASSET RECONCILIATION - RESULT-B-MORTGAGE1
NU006_14A	ASSET RECONCILIATION - RESULT-A-MORTGAGE2
NU006_14B	ASSET RECONCILIATION - RESULT-B-MORTGAGE2
NU022_13A	WHICH WAVE WRONG-A-MORTGAGE1
NU022_13B	WHICH WAVE WRONG-B-MORTGAGE1
NU022_14A	WHICH WAVE WRONG-A-MORTGAGE2
NU022_14B	WHICH WAVE WRONG-B-MORTGAGE2
HRS 2014:	
OH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
OH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
OH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
OH032	HOW MUCH IS STILL OWED ON MORTGAGE
OH033	HOW MUCH IS STILL OWED ON MORTGAGE- MIN
OH034	HOW MUCH IS STILL OWED ON MORTGAGE- MAX
OH035	HOW MUCH IS STILL OWED ON MORTGAGE- RESULT
OH042	MONEY OWED ON 2ND PROPERTY LOAN
OH043	MONEY OWED ON 2ND PROPERTY LOAN- MIN
OH044	MONEY OWED ON 2ND PROPERTY LOAN- MAX
OH045	MONEY OWED ON 2ND PROPERTY LOAN- RESULT
OU001_13	ASSET RECONCILIATION - MORTGAGE1
OU001_14	ASSET RECONCILIATION - MORTGAGE2
OU002_13	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE1
OU002_14	ASSET RECONCILIATION - WHICH WRONG-MORTGAGE2
OU003_13A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE1
OU003_13B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE1
OU003_14A	ASSET RECONCILIATION - HOW MUCH -A-MORTGAGE2
OU003_14B	ASSET RECONCILIATION - HOW MUCH-B-MORTGAGE2
OU004_13A	ASSET RECONCILIATION - MIN-A-MORTGAGE1
OU004_13B	ASSET RECONCILIATION - MIN-B-MORTGAGE1
OU004_14A	ASSET RECONCILIATION - MIN-A-MORTGAGE2
OU004_14B	ASSET RECONCILIATION - MIN-B-MORTGAGE2
OU005_13A	ASSET RECONCILIATION - MAX-A -MORTGAGE1
OU005_13B	ASSET RECONCILIATION - MAX-B -MORTGAGE1
OU005_14A	ASSET RECONCILIATION - MAX-A -MORTGAGE2
OU005_14B	ASSET RECONCILIATION - MAX-B -MORTGAGE2
OU006_13A	ASSET RECONCILIATION - RESULT-A-MORTGAGE1
OU006_13B	ASSET RECONCILIATION - RESULT-B-MORTGAGE1
OU006_14A	ASSET RECONCILIATION - RESULT-A-MORTGAGE2
OU006_14B	ASSET RECONCILIATION - RESULT-B-MORTGAGE2
OU022_13A	WHICH WAVE WRONG-A-MORTGAGE1
OU022_13B	WHICH WAVE WRONG-B-MORTGAGE1
OU022_14A	WHICH WAVE WRONG-A-MORTGAGE2
OU022_14B	WHICH WAVE WRONG-B-MORTGAGE2

<b>Value of other home loans (primary residence)</b>
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Wave	Variable	Label	Type
1	H1AHMLN	H1AHMLN:W1 Assets:Total Othr Home Loans--Cross-wave	Cont
2	H2AHMLN	H2AHMLN:W2 Assets:Total Othr Home Loans--Cross-wave	Cont
3	H3AHMLN	H3AHMLN:W3 Assets:Total Othr Home Loans--Cross-wave	Cont
4	H4AHMLN	H4AHMLN:W4 Assets:Total Othr Home Loans--Cross-wave	Cont
5	H5AHMLN	H5AHMLN:W5 Assets:Total Othr Home Loans--Cross-wave	Cont
6	H6AHMLN	H6AHMLN:W6 Assets:Total Othr Home Loans--Cross-wave	Cont
7	H7AHMLN	H7AHMLN:W7 Assets:Total Othr Home Loans--Cross-wave	Cont
8	H8AHMLN	H8AHMLN:W8 Assets:Total Othr Home Loans--Cross-wave	Cont
9	H9AHMLN	H9AHMLN:W9 Assets:Total Othr Home Loans--Cross-wave	Cont
10	H10AHMLN	H10AHMLN:W10 Assets:Total Othr Home Loans--Cross-wave	Cont
11	H11AHMLN	H11AHMLN:W11 Assets:Total Othr Home Loans--Cross-wave	Cont
12	H12AHMLN	H12AHMLN:W12 Assets:Total Othr Home Loans--Cross-wave	Cont
1	H1AFHMLN	H1AFHMLN:W1 Asst Flag: Total Oth Hm Loans	Categ
2	H2AFHMLN	H2AFHMLN:W2 Asst Flag: Total Oth Hm Loans	Categ
3	H3AFHMLN	H3AFHMLN:W3 Asst Flag: Total Oth Hm Loans	Categ
4	H4AFHMLN	H4AFHMLN:W4 Asst Flag: Total Oth Hm Loans	Categ
5	H5AFHMLN	H5AFHMLN:W5 Asst Flag: Total Oth Hm Loans	Categ
6	H6AFHMLN	H6AFHMLN:W6 Asst Flag: Total Oth Hm Loans	Categ
7	H7AFHMLN	H7AFHMLN:W7 Asst Flag: Total Oth Hm Loans	Categ
8	H8AFHMLN	H8AFHMLN:W8 Asst Flag: Total Oth Hm Loans	Categ
9	H9AFHMLN	H9AFHMLN:W9 Asst Flag: Total Oth Hm Loans	Categ
10	H10AFHMLN	H10AFHMLN:W10 Asst Flag: Total Oth Hm Loans	Categ
11	H11AFHMLN	H11AFHMLN:W11 Asst Flag: Total Oth Hm Loans	Categ
12	H12AFHMLN	H12AFHMLN:W12 Asst Flag: Total Oth Hm Loans	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AHMLN	12652	3653.73	53516.39	0.0	3500000.0
H2AHMLN	19642	1273.07	8367.99	0.0	300000.0
H3AHMLN	17991	1534.68	9088.43	0.0	250000.0
H4AHMLN	21384	1738.96	10876.94	0.0	500000.0
H5AHMLN	19579	1761.35	10472.38	0.0	385000.0
H6AHMLN	18165	2132.04	12055.92	0.0	500000.0
H7AHMLN	20129	3433.59	18582.92	0.0	700000.0
H8AHMLN	18469	4258.40	34700.64	0.0	2500000.0
H9AHMLN	17217	3947.20	24223.13	0.0	1000000.0
H10AHMLN	22034	4249.05	29360.37	0.0	2000000.0
H11AHMLN	20554	4001.62	24689.66	0.0	1031805.8
H12AHMLN	18747	3504.42	20023.57	0.0	592297.2
H1AFHMLN	12652	0.23	0.89	0.0	9.0
H2AFHMLN	11634	0.25	1.01	0.0	9.0
H3AFHMLN	17991	0.16	0.79	0.0	9.0
H4AFHMLN	21384	0.18	0.87	0.0	9.0
H5AFHMLN	19579	0.16	0.79	0.0	9.0
H6AFHMLN	18165	0.15	0.60	0.0	9.0
H7AFHMLN	20129	0.17	0.65	0.0	9.0
H8AFHMLN	18469	0.16	0.61	0.0	9.0
H9AFHMLN	17217	0.17	0.68	0.0	9.0
H10AFHMLN	22034	0.26	1.10	0.0	9.0
H11AFHMLN	20554	0.20	0.84	0.0	9.0
H12AFHMLN	18747	0.20	0.93	0.0	9.0



## Categorical Variable Codes

Value	H1AFHMLN	H2AFHMLN	H3AFHMLN	H4AFHMLN	H5AFHMLN	H6AFHMLN	H7AFHMLN
.Q=Not asked this wv		8008					
0.No asset	10942	10088	16401	19375	17769	16285	17716
1.No imputations	1187	1037	1186	1460	1251	1240	1779
2.Some imputation	428	385	289	379	437	600	573
9.No Fin Resp	95	124	115	170	122	40	61
Value	H8AFHMLN	H9AFHMLN	H10AFHMLN	H11AFHMLN	H12AFHMLN		
0.No asset	16279	15170	19204	18226	16752		
1.No imputations	1678	1530	1888	1614	1321		
2.Some imputation	464	454	647	573	507		
9.No Fin Resp	48	63	295	141	167		

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

HwAHMLN is the sum of the reported or imputed value of all other home loans other than the first or second mortgages plus the balance on an equity line of credit. HwAFHMLN is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

## Cross Wave Differences in Original HRS Data

The values of home loans other than first and second mortgages are asked at each wave. Questions reveal whether the Respondent has any other home loans and if so, the value of them.

In Wave 1, questions ask about home equity loans and lines of credit, separately:

1a) "Do you have any (other) loans that use this property as collateral? (Please do not include any home equity lines of credit.)"

1b) "How much is still owed on this loan?"

2a) "Do you currently have a loan against this line of credit?"

2b) "How much is currently owed?"

In Wave 2A, one question is asked about other loans:

1a) "Do you have any (other) loans that use this property as collateral?"

1b) "About how much is still owed on this loan?"

Beginning in Wave 2H, the ownership questions cover 1st mortgage, 2nd mortgage and other loans. Up to 3 loans may be specified:

1a) "Do you have a mortgage, land contract, second mortgage or any other loan that uses the property as collateral? Please do not include any home equity lines of credit."

1b) "About how much do you still owe on that loan?"

As in Wave 1, the Respondent is asked about a home equity line of credit separately:

2a) "Do you currently have a loan against this line of credit?"

2b) "About how much is currently owed?"

From Wave 3 forward, if the Respondent refuses or does not know the value of the home equity loans, a series of unfolding bracket questions are asked. The bracket ranges and entry points are the same across waves. From Wave 6 forward, unfolding bracket questions are asked for the value of a home equity line of credit. In Wave 1 range card brackets may be coded if the Respondent refuses or does not know the value.

## HRS Variables Used

### HRS 1992:

V10735	D31:ANY_OTHER_LOANS :IND
V10736	D26:HM_EQTY_LOAN_\$OW:IND
V10743	D32B:LOAN_AGNST_CRDI:IND
V10744	D32C:\$_CURRENTLY_OWE:IND
V735	D31:ANY OTHER LOANS :IMP
V736	D26:HM EQ LN-\$ STILL:IMP
V743	D32B:LOAN AGNST CRDI:IMP
V744	D32C:\$ CURRENTLY OWE:IMP

### AHEAD 1993:

B1067	F10. MOBILE HOME & SITE: OWN/RENT
B1087	F23. OWN OR RENT FARM/RANCH?
B1088	F23a. OWN FARMHOUSE?
B1091	F25. OWN OR RENT HOME/APT?
B1132	F37. OTH LOANS W/ PROPERTY AS COLLATERAL
B1135	F37c. AMOUNT STILL OWE OTHER LOAN

### HRS 1994:

W10631	D10c. Imputation indicat
W10634	D11b. Imputation indicat
W10635	D11c. Imputation indicat
W616	D7.MORTGAGE OR LAND CONT
W617	D7.MORTGAGE OR LAND CONT
W618	D7.MORTGAGE OR LAND CONT
W631	D10c.STILL OWE ON LOAN
W634	D11b.LOAN AGAINST LINE O
W635	D11c.AMOUNT CURRENTLY OW

### AHEAD 1995:

D2251M1	F7.HOME MORTGAGE
D2251M2	F7.HOME MORTGAGE

D2270	F10E.\$ OWN ON LOAN
D2271B	F10E.\$ OWN ON LOAN/Bkt
D2276	F11B.EQUITY LOAN NOW
D2277	F11C.\$ OWED EQUITY LOAD
HRS 1996:	
E2251M1	F7.HOME MORTGAGE
E2251M2	F7.HOME MORTGAGE
E2251M3	F7.HOME MORTGAGE
E2270	F10E.\$ OWE ON LOAN
E2271B	F10E.\$ OWE ON LOAN/Bkt
E2276	F11B.EQUITY LOAN NOW
E2277	F11C.\$ OWED EQUITY LOAD
HRS 1998:	
F2768M1	F7.HOME MORTGAGE
F2768M2	F7.HOME MORTGAGE
F2787	F10E.\$ OWN ON LOAN
F2788B	F10E.\$ OWN ON LOAN-Bkt
F2793	F11B.EQUITY LOAN NOW
F2794	F11C.\$ OWED EQUITY LOAD
HRS 2000:	
G3086M1	F7.HOME MORTGAGE
G3086M2	F7.HOME MORTGAGE
G3105	F10E.\$ OWE ON LOAN
G3106	F10B.F10A DK-1
G3107	F10C. F10A DK-2
G3108	F10D. F10A DK-3
G3111	F11B.EQUITY LOAN NOW
G3112	F11C.\$ OWED EQUITY LOAD
HRS 2002:	
HH024M1	LOAN-WITH PROPERTY AS COLLATERAL
HH024M2	LOAN-WITH PROPERTY AS COLLATERAL
HH024M3	LOAN-WITH PROPERTY AS COLLATERAL
HH052	MONEY OWE ON OTHER LOAN
HH053	MONEY OWE ON OTHER LOAN- MIN
HH054	MONEY OWE ON OTHER LOAN- MAX
HH055	MONEY OWE ON OTHER LOAN- RESULT
HH061	EQUITY LOAN NOW
HH062	MONEY OWED EQUITY LOAN
HH063	MONEY OWED EQUITY LOAN- MIN
HH064	MONEY OWED EQUITY LOAN- MAX
HH065	MONEY OWED EQUITY LOAN- RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
JH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
JH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
JH052	MONEY OWE ON OTHER LOAN
JH053	MONEY OWE ON OTHER LOAN- MIN
JH054	MONEY OWE ON OTHER LOAN- MAX
JH061	EQUITY LOAN NOW
JH062	MONEY OWED EQUITY LOAN
JH063	MONEY OWED EQUITY LOAN- MIN

JH064	MONEY OWED EQUITY LOAN- MAX
JH065	MONEY OWED EQUITY LOAN- RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
KH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
KH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
KH052	MONEY OWE ON OTHER LOAN
KH053	MONEY OWE ON OTHER LOAN- MIN
KH054	MONEY OWE ON OTHER LOAN- MAX
KH055	MONEY OWE ON OTHER LOAN- RESULT
KH061	EQUITY LOAN NOW
KH062	MONEY OWED EQUITY LOAN
KH063	MONEY OWED EQUITY LOAN- MIN
KH064	MONEY OWED EQUITY LOAN- MAX
KH065	MONEY OWED EQUITY LOAN- RESULT
KU001_15	ASSET RECONCILIATION-EQUITY LOAN
KU002_15	ASSET RECON WHICH WRONG-EQUITY LOAN
KU003_15A	ASSET RECON HOW MUCH -A-EQUITY LOAN
KU003_15B	ASSET RECON HOW MUCH-B-EQUITY LOAN
KU004_15A	ASSET RECON -MIN-A-EQUITY LOAN
KU004_15B	ASSET RECON -MIN-B-EQUITY LOAN
KU005_15A	ASSET RECON -MAX-A -EQUITY LOAN
KU005_15B	ASSET RECON -MAX-B -EQUITY LOAN

KU006_15A	ASSET RECON - RESULT-A-EQUITY LOAN
KU006_15B	ASSET RECON - RESULT-B-EQUITY LOAN
KU022_15A	WHICH WAVE WRONG-A-EQUITY LOAN
KU022_15B	WHICH WAVE WRONG-B-EQUITY LOAN
HRS 2008:	
LH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
LH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
LH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
LH052	MONEY OWE ON OTHER LOAN
LH053	MONEY OWE ON OTHER LOAN- MIN
LH054	MONEY OWE ON OTHER LOAN- MAX
LH055	MONEY OWE ON OTHER LOAN- RESULT
LH061	EQUITY LOAN NOW
LH062	MONEY OWED EQUITY LOAN
LH063	MONEY OWED EQUITY LOAN- MIN
LH064	MONEY OWED EQUITY LOAN- MAX
LH065	MONEY OWED EQUITY LOAN- RESULT
LU001_15	ASSET RECONCILIATION-EQUITY LOAN
LU002_15	ASSET RECONCILIATION WHICH WRONG-EQUITY LOAN
LU003_15A	ASSET RECONCILIATION HOW MUCH -A-EQUITY LOAN
LU003_15B	ASSET RECONCILIATION HOW MUCH-B-EQUITY LOAN
LU004_15A	ASSET RECON -MIN-A-EQUITY LOAN
LU004_15B	ASSET RECON -MIN-B-EQUITY LOAN
LU005_15A	ASSET RECON -MAX-A -EQUITY LOAN
LU005_15B	ASSET RECON -MAX-B -EQUITY LOAN
LU006_15A	ASSET RECON - RESULT-A-EQUITY LOAN
LU006_15B	ASSET RECON - RESULT-B-EQUITY LOAN
LU022_15A	WHICH WAVE WRONG-A-EQUITY LOAN
LU022_15B	WHICH WAVE WRONG-B-EQUITY LOAN
HRS 2010:	
MH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
MH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
MH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
MH052	MONEY OWE ON OTHER LOAN
MH053	MONEY OWE ON OTHER LOAN- MIN
MH054	MONEY OWE ON OTHER LOAN- MAX
MH055	MONEY OWE ON OTHER LOAN- RESULT
MH061	EQUITY LOAN NOW
MH062	MONEY OWED EQUITY LOAN
MH063	MONEY OWED EQUITY LOAN- MIN
MH064	MONEY OWED EQUITY LOAN- MAX
MH065	MONEY OWED EQUITY LOAN- RESULT
MU001_15	ASSET RECONCILIATION - EQUITY LOAN
MU002_15	ASSET RECONCILIATION - WHICH WRONG-EQUITY LOAN
MU003_15A	ASSET RECONCILIATION - HOW MUCH -A-EQUITY LOAN
MU003_15B	ASSET RECONCILIATION - HOW MUCH-B-EQUITY LOAN
MU004_15A	ASSET RECONCILIATION - MIN-A-EQUITY LOAN
MU004_15B	ASSET RECONCILIATION - MIN-B-EQUITY LOAN
MU005_15A	ASSET RECONCILIATION - MAX-A -EQUITY LOAN
MU005_15B	ASSET RECONCILIATION - MAX-B -EQUITY LOAN
MU006_15A	ASSET RECONCILIATION - RESULT-A-EQUITY LOAN
MU006_15B	ASSET RECONCILIATION - RESULT-B-EQUITY LOAN
MU022_15A	WHICH WAVE WRONG-A-EQUITY LOAN
MU022_15B	WHICH WAVE WRONG-B-EQUITY LOAN
HRS 2012:	
NH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
NH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
NH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
NH052	MONEY OWE ON OTHER LOAN

NH053	MONEY OWE ON OTHER LOAN- MIN
NH054	MONEY OWE ON OTHER LOAN- MAX
NH055	MONEY OWE ON OTHER LOAN- RESULT
NH061	EQUITY LOAN NOW
NH062	MONEY OWED EQUITY LOAN
NH063	MONEY OWED EQUITY LOAN- MIN
NH064	MONEY OWED EQUITY LOAN- MAX
NH065	MONEY OWED EQUITY LOAN- RESULT
NU001_15	ASSET RECONCILIATION - EQUITY LOAN
NU002_15	ASSET RECONCILIATION - WHICH WRONG-EQUITY LOAN
NU003_15A	ASSET RECONCILIATION - HOW MUCH -A-EQUITY LOAN
NU003_15B	ASSET RECONCILIATION - HOW MUCH-B-EQUITY LOAN
NU004_15A	ASSET RECONCILIATION - MIN-A-EQUITY LOAN
NU004_15B	ASSET RECONCILIATION - MIN-B-EQUITY LOAN
NU005_15A	ASSET RECONCILIATION - MAX-A -EQUITY LOAN
NU005_15B	ASSET RECONCILIATION - MAX-B -EQUITY LOAN
NU006_15A	ASSET RECONCILIATION - RESULT-A-EQUITY LOAN
NU006_15B	ASSET RECONCILIATION - RESULT-B-EQUITY LOAN
NU022_15A	WHICH WAVE WRONG-A-EQUITY LOAN
NU022_15B	WHICH WAVE WRONG-B-EQUITY LOAN
HRS 2014:	
OH024M1	LOAN-WITH PROPERTY AS COLLATERAL-1
OH024M2	LOAN-WITH PROPERTY AS COLLATERAL-2
OH024M3	LOAN-WITH PROPERTY AS COLLATERAL-3
OH052	MONEY OWE ON OTHER LOAN
OH053	MONEY OWE ON OTHER LOAN- MIN
OH054	MONEY OWE ON OTHER LOAN- MAX
OH055	MONEY OWE ON OTHER LOAN- RESULT
OH061	EQUITY LOAN NOW
OH062	MONEY OWED EQUITY LOAN
OH063	MONEY OWED EQUITY LOAN- MIN
OH064	MONEY OWED EQUITY LOAN- MAX
OH065	MONEY OWED EQUITY LOAN- RESULT
OU001_15	ASSET RECONCILIATION - EQUITY LOAN
OU002_15	ASSET RECONCILIATION - WHICH WRONG-EQUITY LOAN
OU003_15A	ASSET RECONCILIATION - HOW MUCH -A-EQUITY LOAN
OU003_15B	ASSET RECONCILIATION - HOW MUCH-B-EQUITY LOAN
OU004_15A	ASSET RECONCILIATION - MIN-A-EQUITY LOAN
OU004_15B	ASSET RECONCILIATION - MIN-B-EQUITY LOAN
OU005_15A	ASSET RECONCILIATION - MAX-A -EQUITY LOAN
OU005_15B	ASSET RECONCILIATION - MAX-B -EQUITY LOAN
OU006_15A	ASSET RECONCILIATION - RESULT-A-EQUITY LOAN
OU006_15B	ASSET RECONCILIATION - RESULT-B-EQUITY LOAN
OU022_15A	WHICH WAVE WRONG-A-EQUITY LOAN
OU022_15B	WHICH WAVE WRONG-B-EQUITY LOAN

<b>Net value of primary residence</b>
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Wave	Variable	Label	Type
1	H1ATOTH	H1ATOTH:W1 Net Value of House /prim res--Cross-wave	Cont
2	H2ATOTH	H2ATOTH:W2 Net Value of House /prim res--Cross-wave	Cont
3	H3ATOTH	H3ATOTH:W3 Net Value of House /prim res--Cross-wave	Cont
4	H4ATOTH	H4ATOTH:W4 Net Value of House /prim res--Cross-wave	Cont
5	H5ATOTH	H5ATOTH:W5 Net Value of House /prim res--Cross-wave	Cont
6	H6ATOTH	H6ATOTH:W6 Net Value of House /prim res--Cross-wave	Cont
7	H7ATOTH	H7ATOTH:W7 Net Value of House /prim res--Cross-wave	Cont
8	H8ATOTH	H8ATOTH:W8 Net Value of House /prim res--Cross-wave	Cont
9	H9ATOTH	H9ATOTH:W9 Net Value of House /prim res--Cross-wave	Cont
10	H10ATOTH	H10ATOTH:W10 Net Value of House /prim res--Cross-wave	Cont
11	H11ATOTH	H11ATOTH:W11 Net Value of House /prim res--Cross-wave	Cont
12	H12ATOTH	H12ATOTH:W12 Net Value of House /prim res--Cross-wave	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTH	12652	61433.62	94097.48	-3350000.0	1000000.0
H2ATOTH	19642	68388.83	124408.72	-5040000.0	5000000.0
H3ATOTH	17991	73061.53	106408.01	-550000.0	5000000.0
H4ATOTH	21384	80957.30	242546.98	-740000.0	19900000.0
H5ATOTH	19579	92439.79	240253.18	-670000.0	14000000.0
H6ATOTH	18165	105998.11	164834.36	-500000.0	9985000.0
H7ATOTH	20129	128122.08	320408.86	-939000.0	24000000.0
H8ATOTH	18469	157872.92	245965.54	-1000000.0	5500000.0
H9ATOTH	17217	159004.69	422260.83	-850000.0	24400000.0
H10ATOTH	22034	117484.66	224921.34	-2750000.0	10000000.0
H11ATOTH	20554	113476.35	206244.23	-1387059.4	9411437.0
H12ATOTH	18747	125414.23	232100.35	-3860000.0	12182241.3

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The net value of housing is calculated as the value of the primary residence less mortgages and home loans:

HwAHOUS - HwAMORT - HwAHMLN

<b>Value of secondary residence</b>
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Wave	Variable	Label	Type
1	H1AHOUB	H1AHOUB:W1 Assets:2nd Home--Cross-wave	Cont
2	H2AHOUB	H2AHOUB:W2 Assets:2nd Home--Cross-wave	Cont
4	H4AHOUB	H4AHOUB:W4 Assets:2nd Home--Cross-wave	Cont
5	H5AHOUB	H5AHOUB:W5 Assets:2nd Home--Cross-wave	Cont
6	H6AHOUB	H6AHOUB:W6 Assets:2nd Home--Cross-wave	Cont
7	H7AHOUB	H7AHOUB:W7 Assets:2nd Home--Cross-wave	Cont
8	H8AHOUB	H8AHOUB:W8 Assets:2nd Home--Cross-wave	Cont
9	H9AHOUB	H9AHOUB:W9 Assets:2nd Home--Cross-wave	Cont
10	H10AHOUB	H10AHOUB:W10 Assets:2nd Home--Cross-wave	Cont
11	H11AHOUB	H11AHOUB:W11 Assets:2nd Home--Cross-wave	Cont
12	H12AHOUB	H12AHOUB:W12 Assets:2nd Home--Cross-wave	Cont
1	H1AFHOUB	H1AFHOUB:W1 Assets Flag:2nd Home--Cross-wave	Categ
2	H2AFHOUB	H2AFHOUB:W2 Assets Flag:2nd Home--Cross-wave	Categ
4	H4AFHOUB	H4AFHOUB:W4 Assets Flag:2nd Home--Cross-wave	Categ
5	H5AFHOUB	H5AFHOUB:W5 Assets Flag:2nd Home--Cross-wave	Categ
6	H6AFHOUB	H6AFHOUB:W6 Assets Flag:2nd Home--Cross-wave	Categ
7	H7AFHOUB	H7AFHOUB:W7 Assets Flag:2nd Home--Cross-wave	Categ
8	H8AFHOUB	H8AFHOUB:W8 Assets Flag:2nd Home--Cross-wave	Categ
9	H9AFHOUB	H9AFHOUB:W9 Assets Flag:2nd Home--Cross-wave	Categ
10	H10AFHOUB	H10AFHOUB:W10 Assets Flag:2nd Home--Cross-wave	Categ
11	H11AFHOUB	H11AFHOUB:W11 Assets Flag:2nd Home--Cross-wave	Categ
12	H12AFHOUB	H12AFHOUB:W12 Assets Flag:2nd Home--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AHOUB	12652	14354.44	97106.66	0.0	5000000.0
H2AHOUB	11420	10970.46	50145.68	0.0	2000000.0
H4AHOUB	21384	12027.84	58592.56	0.0	2000000.0
H5AHOUB	19579	13575.05	64324.42	0.0	1900000.0
H6AHOUB	18165	17408.31	87960.17	0.0	3000000.0
H7AHOUB	20129	22078.84	152855.23	0.0	10000000.0
H8AHOUB	18469	26172.89	135355.58	0.0	6000000.0
H9AHOUB	17217	28242.87	142474.27	0.0	4415630.4
H10AHOUB	22034	23275.70	130084.24	0.0	5525000.0
H11AHOUB	20554	23055.63	110485.60	0.0	3500000.0
H12AHOUB	18747	28658.41	497318.62	0.0	65000000.0
H1AFHOUB	12652	5.36	1.72	1.0	9.0
H2AFHOUB	11420	5.40	1.69	1.0	9.0
H4AFHOUB	21384	5.46	1.60	1.0	9.0
H5AFHOUB	19579	5.47	1.57	1.0	9.0
H6AFHOUB	18165	5.45	1.58	1.0	9.0
H7AFHOUB	20129	5.39	1.64	1.0	9.0
H8AFHOUB	18469	5.36	1.65	1.0	9.0
H9AFHOUB	17217	5.33	1.70	1.0	9.0
H10AFHOUB	22034	5.38	1.71	1.0	9.0
H11AFHOUB	20554	5.35	1.70	1.0	9.0
H12AFHOUB	18747	5.36	1.71	1.0	9.0



## Categorical Variable Codes

Value	H1AFHOUB	H2AFHOUB	H4AFHOUB	H5AFHOUB	H6AFHOUB	H7AFHOUB
.Q=Not asked this wv		8222				
1.Continuous value	1656	1344	2213	1956	1870	2189
2.Complete bracket		118	222	227	194	349
3.Incomplete bracket		22	6	38	12	24
4.Range card bracket	26					
5.No value/bracket	114	25	48	67	87	181
6.No asset	10734	9769	18667	17094	15740	17215
7.DK ownership	27	18	58	75	223	110
9.No Fin resp	95	124	170	122	39	61

Value	H8AFHOUB	H9AFHOUB	H10AFHOUB	H11AFHOUB	H12AFHOUB
1.Continuous value	2076	2083	2561	2418	2231
2.Complete bracket	318	281	349	356	288
3.Incomplete bracket	33	36	55	45	34
5.No value/bracket	166	136	185	168	142
6.No asset	15787	14552	18496	17346	15821
7.DK ownership	41	66	93	80	64
9.No Fin resp	48	63	295	141	167

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of the Respondent's secondary residence is assigned to HwAHOUB. The HwAFHOUB variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

From Wave 4 forward to determine ownership of a secondary residence, we look at responses to questions about whether the person is in a nursing home and if so, whether s/he owns a home outside of the nursing home. In Waves 5-10, we found a discrepancy between what was reported on these questions and what was listed on the Tracker file, that is - some individuals said that they were in a nursing home (and did not own a home outside of the nursing home), but the Tracker file said they were not in a nursing home. We considered the information from Tracker to be the most accurate.[See Appendix A for a description of how many cases were affected by this change.]

Due to problems with the way information about second residences was collected in Waves 2A and 3, we do not provide these variables for these waves.

Users should note the following outliers:

1. HHIDPN: 529220010 reported having a second home (OH166) worth \$65,000,000 in Wave 12. S/he also reported having a loan on this second home (OH171) of \$3,200,000. Therefore, the net value of her/his second home is \$61,800,000.

### Cross Wave Differences in Original HRS Data

The value of the secondary residence is asked at each wave, though in some waves it is problematic. Questions reveal whether the Respondent owns her/his secondary residence and if so, the value of it.

In Wave 1, the questions about second home ask:

1a). "Do you (or your husband/or your wife/or your partner/...) own a second home or condo?" [NOTE: Time-share weeks should be included.]

1b). "Could you tell me the present value of (your part of) that property – I mean, about how much would it bring if it were sold today?"

In Wave 2A, ownership of a secondary residence is asked about within the context of real estate investments, which presents problems not only for determining ownership, but consequently the value of a second residence.

In Wave 3, there was a skip pattern error, such that certain households with second homes were not asked the subsequent questions pertaining to these types of residences. Specifically, anyone who reported not living in her/his second home for at least two months during the year would not have been asked further questions about her/his second residence.

In Wave 2H and from Wave 4 forward, the questions are consistent and the wordings are also the same:

1a). "Not including investment property, do you (or your husband/or your wife/or your partner/...) own a second home or condo?"

1b). "What is its present value? (What is the present value of your part of it?) I mean, about what would it bring if it were sold today?"

From Wave 2 forward, if the Respondent refuses or doesn't know the value, a series of unfolding bracket questions are asked. The bracket entry points vary across waves. In Wave 1, no unfolding bracket questions are asked, though range cards could be used to obtain the value.

### HRS Variables Used

HRS 1992:	
V10816	D39:91-R1-OWN2NDHOME:IND
V10824	D44:CURR_PROP_PRT_VA:IND
V816	D39:OWN 2ND HOME/CON:IMP
V824	D44:CURR VALUE:\$ :IMP
HRS 1994:	
W10710	D81. Imputation indicato
W10718	D87. Imputation indicato
W710	D81.OWN SECOND HOME/COND
W717	D86.PURCHASE PRICE OF SE
W719	D87a-D87d. Brackets
HRS 1998:	
F2914	F40.OWN 2ND HOME
F2950	F46F.\$ VALUE 2ND HOME
F2951	F46G.F46F DK.1-2

F2952	F46H.F46F DK.2-2
F2953	F46J.F46F DK.3-2
F2954	F46K.F46F DK.4-2
F517	CS11.R IN NURSING HOME
F721	CS26.NURHM: STILL OWN/RENT HOME
HRS 2000:	
G3232	F40.OWN 2ND HOME
G3268	F46F.\$ VALUE 2ND HOME
G3269	F46G.F46F DK 1-2
G3270	F46H.F46F DK 2-2
G3271	F46J.F46F DK 3-2
G3272	F46K.F46F DK 4-2
G558	CS11.R IN NURSING HOME
G794	CS26.NURHM: STILL OWN/RENT HOME
HRS 2002:	
HA028	R IN NURSING HOME
HA070	NH: STILL OWN/RENT HOME
HH151	OWN SECOND HOME
HH166	DOLLAR VALUE SECOND HOME
HH167	DOLLAR VALUE SECOND HOME - MINIMUM
HH168	DOLLAR VALUE SECOND HOME - MAXIMUM
HH169	DOLLAR VALUE SECOND HOME - RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JA028	R IN NURSING HOME
JA070	NH: STILL OWN/RENT HOME
JH151	OWN SECOND HOME
JH166	DOLLAR VALUE SECOND HOME
JH167	DOLLAR VALUE SECOND HOME - MINIMUM
JH168	DOLLAR VALUE SECOND HOME - MAXIMUM
JH169	DOLLAR VALUE SECOND HOME - RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3

JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KA028	R IN NURSING HOME
KA070	NH: STILL OWN/RENT HOME
KH151	OWN SECOND HOME
KH166	DOLLAR VALUE SECOND HOME
KH167	DOLLAR VALUE SECOND HOME - MINIMUM
KH168	DOLLAR VALUE SECOND HOME - MAXIMUM
KH169	DOLLAR VALUE SECOND HOME - RESULT
KU001_17	ASSET RECONCILIATION-HOME2
KU002_17	ASSET RECON WHICH WRONG-HOME2
KU003_17A	ASSET RECON HOW MUCH -A-HOME2
KU003_17B	ASSET RECON HOW MUCH-B-HOME2
KU004_17A	ASSET RECON -MIN-A-HOME2
KU004_17B	ASSET RECON -MIN-B-HOME2
KU005_17A	ASSET RECON -MAX-A -HOME2
KU005_17B	ASSET RECON -MAX-B -HOME2
KU006_17A	ASSET RECON - RESULT-A-HOME2
KU006_17B	ASSET RECON - RESULT-B-HOME2
KU022_17A	WHICH WAVE WRONG-A-HOME2
KU022_17B	WHICH WAVE WRONG-B-HOME2
HRS 2008:	
LA028	R IN NURSING HOME
LA070	NH: STILL OWN/RENT HOME
LH151	OWN SECOND HOME
LH166	DOLLAR VALUE SECOND HOME
LH167	DOLLAR VALUE SECOND HOME - MINIMUM
LH168	DOLLAR VALUE SECOND HOME - MAXIMUM
LH169	DOLLAR VALUE SECOND HOME - RESULT
LU001_17	ASSET RECONCILIATION-HOME2
LU002_17	ASSET RECONCILIATION WHICH WRONG-HOME2
LU003_17A	ASSET RECONCILIATION HOW MUCH -A-HOME2
LU003_17B	ASSET RECONCILIATION HOW MUCH-B-HOME2
LU004_17A	ASSET RECON -MIN-A-HOME2
LU004_17B	ASSET RECON -MIN-B-HOME2
LU005_17A	ASSET RECON -MAX-A -HOME2
LU005_17B	ASSET RECON -MAX-B -HOME2
LU006_17A	ASSET RECON - RESULT-A-HOME2
LU006_17B	ASSET RECON - RESULT-B-HOME2
LU022_17A	WHICH WAVE WRONG-A-HOME2
LU022_17B	WHICH WAVE WRONG-B-HOME2
HRS 2010:	
MA028	R IN NURSING HOME
MA070	NH: STILL OWN/RENT HOME
MH151	OWN SECOND HOME

MH166	DOLLAR VALUE SECOND HOME
MH167	DOLLAR VALUE SECOND HOME - MINIMUM
MH168	DOLLAR VALUE SECOND HOME - MAXIMUM
MH169	DOLLAR VALUE SECOND HOME - RESULT
MU001_17	ASSET RECONCILIATION - HOME2
MU002_17	ASSET RECONCILIATION - WHICH WRONG-HOME2
MU003_17A	ASSET RECONCILIATION - HOW MUCH -A-HOME2
MU003_17B	ASSET RECONCILIATION - HOW MUCH-B-HOME2
MU004_17A	ASSET RECONCILIATION - MIN-A-HOME2
MU004_17B	ASSET RECONCILIATION - MIN-B-HOME2
MU005_17A	ASSET RECONCILIATION - MAX-A -HOME2
MU005_17B	ASSET RECONCILIATION - MAX-B -HOME2
MU006_17A	ASSET RECONCILIATION - RESULT-A-HOME2
MU006_17B	ASSET RECONCILIATION - RESULT-B-HOME2
MU022_17A	WHICH WAVE WRONG-A-HOME2
MU022_17B	WHICH WAVE WRONG-B-HOME2
HRS 2012:	
NA028	R IN NURSING HOME
NA070	NH: STILL OWN/RENT HOME
NH151	OWN SECOND HOME
NH166	DOLLAR VALUE SECOND HOME
NH167	DOLLAR VALUE SECOND HOME - MINIMUM
NH168	DOLLAR VALUE SECOND HOME - MAXIMUM
NH169	DOLLAR VALUE SECOND HOME - RESULT
NU001_17	ASSET RECONCILIATION - HOME2
NU002_17	ASSET RECONCILIATION - WHICH WRONG-HOME2
NU003_17A	ASSET RECONCILIATION - HOW MUCH -A-HOME2
NU003_17B	ASSET RECONCILIATION - HOW MUCH-B-HOME2
NU004_17A	ASSET RECONCILIATION - MIN-A-HOME2
NU004_17B	ASSET RECONCILIATION - MIN-B-HOME2
NU005_17A	ASSET RECONCILIATION - MAX-A -HOME2
NU005_17B	ASSET RECONCILIATION - MAX-B -HOME2
NU006_17A	ASSET RECONCILIATION - RESULT-A-HOME2
NU006_17B	ASSET RECONCILIATION - RESULT-B-HOME2
NU022_17A	WHICH WAVE WRONG-A-HOME2
NU022_17B	WHICH WAVE WRONG-B-HOME2
HRS 2014:	
OA028	R IN NURSING HOME
OA070	NH: STILL OWN/RENT HOME
OH151	OWN SECOND HOME
OH166	DOLLAR VALUE SECOND HOME
OH167	DOLLAR VALUE SECOND HOME - MINIMUM
OH168	DOLLAR VALUE SECOND HOME - MAXIMUM
OH169	DOLLAR VALUE SECOND HOME - RESULT
OU001_17	ASSET RECONCILIATION - HOME2
OU002_17	ASSET RECONCILIATION - WHICH WRONG-HOME2
OU003_17A	ASSET RECONCILIATION - HOW MUCH -A-HOME2
OU003_17B	ASSET RECONCILIATION - HOW MUCH-B-HOME2
OU004_17A	ASSET RECONCILIATION - MIN-A-HOME2
OU004_17B	ASSET RECONCILIATION - MIN-B-HOME2
OU005_17A	ASSET RECONCILIATION - MAX-A -HOME2
OU005_17B	ASSET RECONCILIATION - MAX-B -HOME2
OU006_17A	ASSET RECONCILIATION - RESULT-A-HOME2
OU006_17B	ASSET RECONCILIATION - RESULT-B-HOME2
OU022_17A	WHICH WAVE WRONG-A-HOME2
OU022_17B	WHICH WAVE WRONG-B-HOME2
Tracker:	
GNURSHM	2000 NURSING HOME STATUS
HNURSHM	2002 NURSING HOME STATUS

JNURSHM	2004	NURSING	HOME	STATUS
KNURSHM	2006	NURSING	HOME	STATUS
LNURSHM	2008	NURSING	HOME	STATUS
MNURSHM	2010	NURSING	HOME	STATUS
NNURSHM	2012	NURSING	HOME	STATUS
ONURSHM	2014	NURSING	HOME	STATUS

<b>Value of all mortgages/land contracts (secondary residence)</b>
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Wave	Variable	Label	Type
1	H1AMRTB	H1AMRTB:W1 Assets:2nd Home Mtg--Cross-wave	Cont
2	H2AMRTB	H2AMRTB:W2 Assets:2nd Home Mtg--Cross-wave	Cont
4	H4AMRTB	H4AMRTB:W4 Assets:2nd Home Mtg--Cross-wave	Cont
5	H5AMRTB	H5AMRTB:W5 Assets:2nd Home Mtg--Cross-wave	Cont
6	H6AMRTB	H6AMRTB:W6 Assets:2nd Home Mtg--Cross-wave	Cont
7	H7AMRTB	H7AMRTB:W7 Assets:2nd Home Mtg--Cross-wave	Cont
8	H8AMRTB	H8AMRTB:W8 Assets:2nd Home Mtg--Cross-wave	Cont
9	H9AMRTB	H9AMRTB:W9 Assets:2nd Home Mtg--Cross-wave	Cont
10	H10AMRTB	H10AMRTB:W10 Assets:2nd Home Mtg--Cross-wave	Cont
11	H11AMRTB	H11AMRTB:W11 Assets:2nd Home Mtg--Cross-wave	Cont
12	H12AMRTB	H12AMRTB:W12 Assets:2nd Home Mtg--Cross-wave	Cont
1	H1AFMRTB	H1AFMRTB:W1 Assets Flag:2nd Home Mtg--Cross-wave	Categ
2	H2AFMRTB	H2AFMRTB:W2 Assets Flag:2nd Home Mtg--Cross-wave	Categ
4	H4AFMRTB	H4AFMRTB:W4 Assets Flag:2nd Home Mtg--Cross-wave	Categ
5	H5AFMRTB	H5AFMRTB:W5 Assets Flag:2nd Home Mtg--Cross-wave	Categ
6	H6AFMRTB	H6AFMRTB:W6 Assets Flag:2nd Home Mtg--Cross-wave	Categ
7	H7AFMRTB	H7AFMRTB:W7 Assets Flag:2nd Home Mtg--Cross-wave	Categ
8	H8AFMRTB	H8AFMRTB:W8 Assets Flag:2nd Home Mtg--Cross-wave	Categ
9	H9AFMRTB	H9AFMRTB:W9 Assets Flag:2nd Home Mtg--Cross-wave	Categ
10	H10AFMRTB	H10AFMRTB:W10 Assets Flag:2nd Home Mtg--Cross-wave	Categ
11	H11AFMRTB	H11AFMRTB:W11 Assets Flag:2nd Home Mtg--Cross-wave	Categ
12	H12AFMRTB	H12AFMRTB:W12 Assets Flag:2nd Home Mtg--Cross-wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1AMRTB	12652	2410.14	14194.02	0.0	325000.0
H2AMRTB	11420	2107.42	14115.17	0.0	460000.0
H4AMRTB	21384	1646.27	14965.01	0.0	520000.0
H5AMRTB	19579	1680.46	18522.80	0.0	1100000.0
H6AMRTB	18165	1630.95	15728.63	0.0	510000.0
H7AMRTB	20129	2303.43	24743.87	0.0	1052931.7
H8AMRTB	18469	2482.32	22839.73	0.0	815000.0
H9AMRTB	17217	3035.99	25961.02	0.0	630000.0
H10AMRTB	22034	3202.54	28031.67	0.0	1000000.0
H11AMRTB	20554	3109.37	25071.93	0.0	630000.0
H12AMRTB	18747	3368.35	34680.63	0.0	3200000.0
H1AFMRTB	12652	5.74	1.19	1.0	9.0
H2AFMRTB	11420	5.81	1.08	1.0	9.0
H4AFMRTB	21384	5.89	0.85	1.0	9.0
H5AFMRTB	19579	5.90	0.82	1.0	9.0
H6AFMRTB	18165	5.91	0.75	1.0	9.0
H7AFMRTB	20129	5.91	0.75	1.0	9.0
H8AFMRTB	18469	5.90	0.76	1.0	9.0
H9AFMRTB	17217	5.90	0.79	1.0	9.0
H10AFMRTB	22034	5.92	0.86	1.0	9.0
H11AFMRTB	20554	5.90	0.84	1.0	9.0
H12AFMRTB	18747	5.90	0.84	1.0	9.0

## Categorical Variable Codes

Value	H1AFMRTB	H2AFMRTB	H4AFMRTB	H5AFMRTB	H6AFMRTB	H7AFMRTB
.Q=Not asked this wv		8222				
1.Continuous value	718	473	541	464	368	403
2.Complete bracket		44	24	28	41	40
3.Incomplete bracket		6	2	3	2	2
4.Range card bracket	14					
5.No value/bracket	51	9	16	23	19	26
6.No asset	11736	10734	20566	18852	17449	19456
7.DK ownership	38	30	65	87	246	141
9.No Fin resp	95	124	170	122	40	61

Value	H8AFMRTB	H9AFMRTB	H10AFMRTB	H11AFMRTB	H12AFMRTB
1.Continuous value	395	391	530	517	463
2.Complete bracket	34	25	28	17	18
3.Incomplete bracket	5	2	7	7	
5.No value/bracket	12	16	10	16	8
6.No asset	17899	16606	21018	19725	17984
7.DK ownership	76	114	146	131	107
9.No Fin resp	48	63	295	141	167

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The reported or imputed value of all mortgages is assigned to HwAMRTB. The HwAFMRTB variable indicates if the value is imputed and if so, what level of information is available during the imputation process. A "1.continuous value" indicates that the Respondent reports an actual value and no imputation is necessary.

Due to problems with the way information about second residences was collected in Wave 2A and in Wave 3, we do not provide these variables for these waves.

Users should note the following outliers:

1. HHIDPN: 529220010 reported having a second home (OH166) worth \$65,000,000 in Wave 12. S/he also reported having a loan on this second home (OH171) of \$3,200,000. Therefore, the net value of her/his second home is \$61,800,000.

## Cross Wave Differences in Original HRS Data

The value of a second home mortgage is asked at each wave, with the exception of Wave 2A. The manner in which the questions are asked varies across waves.



In Waves 1 and 2H, the questions about second home mortgage ask:

- a). "Do you owe any money on this property?"
- b). "About how much do you owe?"

In Wave 2A, ownership of a secondary residence is asked about within the context of real estate investments, which presents problems not only for determining ownership, but consequently the values of any mortgages.

In Wave 3, there was a skip pattern error, such that certain households with second homes were not asked the subsequent questions pertaining to these types of residences. Specifically, anyone who reported not living in her/his second home for at least two months during the year would not have been asked further questions about her/his second residence.

Beginning in Wave 4, the questions are consistent. They are also similar to those in Wave 3 with the only difference being that all branch to one value question:

- a). "(Taking all mortgages and loans together,) about how much do you owe on your second home?"

From Wave 2H forward, if the Respondent refuses or does not know the value, a series of unfolding bracket questions are asked. The bracket entry points vary across waves. In Wave 1, no unfolding bracket questions are asked, though range cards could be used to obtain the value.

## HRS Variables Used

HRS 1992:	
V10825	D45:OWE_MONEY_ON_PRO:IND
V10826	D45A:AMT_OWE_ON_PROP:IND
V825	D45:OWE MONEY ON PRO:IMP
V826	D45A:AMT \$ OWE ON PR:IMP
HRS 1994:	
W10720	D88. Imputation indicato
W10721	D88a. Imputation indicat
W720	D88.OWE MONEY ON SECOND
W721	D88a.AMOUNT OWED ON SECO
W722	D88a1-D88a3. Brackets
HRS 1998:	
F2955M1	F47.HOME MORTGAGE-2ND
F2955M2	F47.HOME MORTGAGE-2ND
F2957	F47A.TOTAL \$ OWED ALL MORTGAGES/LOANS-2N
F2963	F47E.F47D DK.1-2ND
F2964	F47F. F47D DK.2-2ND
F2965	F47G. F47D DK.2-2ND
HRS 2000:	
G3273M1	F47.HOME MORTGAGE-2ND
G3273M2	F47.HOME MORTGAGE-2ND
G3275	F47A.TOTAL OWE MRTGG/LOAN-2ND HOME
G3281	F47E.F47D DK 1-2ND
G3282	F47F.F47D DK 2-2ND
G3283	F47G.F47D DK 2-2ND
HRS 2002:	
HH170M1	HOME MORTGAGE - SECOND
HH170M2	HOME MORTGAGE - SECOND
HH170M3	HOME MORTGAGE - SECOND
HH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME

HH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
HH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
HH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
HU001	U001A_ASSET RECONCILIATION STEM QUESTION
HU002M1	ASSET RECONCILIATION WHICH WRONG -1
HU002M2	ASSET RECONCILIATION WHICH WRONG -2
HU003	ASSET RECONCILIATION HOW MUCH
HU004	ASSET RECONCILIATION - MIN
HU005	ASSET RECONCILIATION - MAX
HU006	ASSET RECONCILIATION - RESULT
TYPASST	TYPE OF ASSETS
HRS 2004:	
JH170M1	HOME MORTGAGE - SECOND-1
JH170M2	HOME MORTGAGE - SECOND-2
JH170M3	HOME MORTGAGE - SECOND-3
JH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
JH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
JH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
JH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
JU001_1	ASSET RECONCILIATION STEM QUESTION - 1
JU001_2	ASSET RECONCILIATION STEM QUESTION -2
JU001_3	ASSET RECONCILIATION STEM QUESTION -3
JU002_1	ASSET RECONCILIATION WHICH WRONG -1
JU002_2	ASSET RECONCILIATION WHICH WRONG -2
JU002_3	ASSET RECONCILIATION WHICH WRONG - 3
JU003A_1	PREV WAVE ASSET RECONCILIATION HOW MUCH -1
JU003A_2	PREV WAVE ASSET RECONCILIATION HOW MUCH -2
JU003A_3	PREV WAVE ASSET RECONCILIATION HOW MUCH -3
JU003B_1	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -1
JU003B_2	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -2
JU003B_3	CURRENT WAVE ASSET RECONCILIATION HOW MUCH -3
JU004A_1	PREV WAVE ASSET RECONCILIATION - MIN -1
JU004A_2	PREV WAVE ASSET RECONCILIATION - MIN -2
JU004A_3	PREV WAVE ASSET RECONCILIATION - MIN -3
JU004B_1	CURRENT WAVE ASSET RECONCILIATION - MIN -1
JU004B_2	CURRENT WAVE ASSET RECONCILIATION - MIN -2
JU004B_3	CURRENT WAVE ASSET RECONCILIATION - MIN -3
JU005A_1	PREV WAVE ASSET RECONCILIATION - MAX -1
JU005A_2	PREV WAVE ASSET RECONCILIATION - MAX -2
JU005A_3	PREV WAVE ASSET RECONCILIATION - MAX -3
JU005B_1	CURRENT WAVE ASSET RECONCILIATION - MAX -1
JU005B_2	CURRENT WAVE ASSET RECONCILIATION - MAX -2
JU005B_3	CURRENT WAVE ASSET RECONCILIATION - MAX -3
JU006A_1	PREV WAVE ASSET RECONCILIATION - RESULT -1
JU006A_2	PREV WAVE ASSET RECONCILIATION - RESULT -2
JU006A_3	PREV WAVE ASSET RECONCILIATION - RESULT -3
JU006B_1	CURRENT WAVE ASSET RECONCILIATION - RESULT -1
JU006B_2	CURRENT WAVE ASSET RECONCILIATION - RESULT -2
JU006B_3	CURRENT WAVE ASSET RECONCILIATION - RESULT -3
JU009_1	TYPE OF ASSETS - 1
JU009_2	TYPE OF ASSETS -2
JU009_3	TYPE OF ASSETS -3
JU022A_1	PREV WAVE VALUE YEAR-1
JU022A_2	PREV WAVE VALUE YEAR-2
JU022A_3	PREV WAVE VALUE YEAR-3
HRS 2006:	
KH170M1	HOME MORTGAGE - SECOND-1
KH170M2	HOME MORTGAGE - SECOND-2
KH170M3	HOME MORTGAGE - SECOND-3

KH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
KH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
KH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
KH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
KU001_18	ASSET RECON-HOME2 MORT
KU002_18	ASSET RECON WHICH WRONG-HOME2 MORT
KU003_18A	ASSET RECON HOW MUCH -A-HOME2 MORT
KU003_18B	ASSET RECON HOW MUCH-B-HOME2 MORT
KU004_18A	ASSET RECON -MIN-A-HOME2 MORT
KU004_18B	ASSET RECON -MIN-B-HOME2 MORT
KU005_18A	ASSET RECON -MAX-A -HOME2 MORT
KU005_18B	ASSET RECON -MAX-B -HOME2 MORT
KU006_18A	ASSET RECON - RES-A-HOME2 MORT
KU006_18B	ASSET RECON - RES-B-HOME2 MORT
KU022_18A	WHICH WAVE WRONG-A-HOME2 MORT
KU022_18B	WHICH WAVE WRONG-B-HOME2 MORT
HRS 2008:	
LH170M1	HOME MORTGAGE - SECOND-1
LH170M2	HOME MORTGAGE - SECOND-2
LH170M3	HOME MORTGAGE - SECOND-3
LH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
LH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
LH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
LH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
LU001_18	ASSET RECONCILIATION-HOME2 MORT
LU002_18	ASSET RECONCILIATION WHICH WRONG-HOME2 MORT
LU003_18A	ASSET RECONCILIATION HOW MUCH -A-HOME2 MORT
LU003_18B	ASSET RECONCILIATION HOW MUCH-B-HOME2 MORT
LU004_18A	ASSET RECON -MIN-A-HOME2 MORT
LU004_18B	ASSET RECON -MIN-B-HOME2 MORT
LU005_18A	ASSET RECON -MAX-A -HOME2 MORT
LU005_18B	ASSET RECON -MAX-B -HOME2 MORT
LU006_18A	ASSET RECON - RES-A-HOME2 MORT
LU006_18B	ASSET RECON - RES-B-HOME2 MORT
LU022_18A	WHICH WAVE WRONG-A-HOME2 MORT
LU022_18B	WHICH WAVE WRONG-B-HOME2 MORT
HRS 2010:	
MH170M1	HOME MORTGAGE - SECOND-1
MH170M2	HOME MORTGAGE - SECOND-2
MH170M3	HOME MORTGAGE - SECOND-3
MH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
MH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
MH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
MH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
MU001_18	ASSET RECONCILIATION - HOME2 MORT
MU002_18	ASSET RECONCILIATION - WHICH WRONG-HOME2 MORT
MU003_18A	ASSET RECONCILIATION - HOW MUCH -A-HOME2 MORT
MU003_18B	ASSET RECONCILIATION - HOW MUCH-B-HOME2 MORT
MU004_18A	ASSET RECONCILIATION - MIN-A-HOME2 MORT
MU004_18B	ASSET RECONCILIATION - MIN-B-HOME2 MORT
MU005_18A	ASSET RECONCILIATION - MAX-A -HOME2 MORT
MU005_18B	ASSET RECONCILIATION - MAX-B -HOME2 MORT
MU006_18A	ASSET RECONCILIATION - RES-A-HOME2 MORT
MU006_18B	ASSET RECONCILIATION - RES-B-HOME2 MORT
MU022_18A	WHICH WAVE WRONG-A-HOME2 MORT
MU022_18B	WHICH WAVE WRONG-B-HOME2 MORT
HRS 2012:	
NH170M1	HOME MORTGAGE - SECOND-1
NH170M2	HOME MORTGAGE - SECOND-2

NH170M3	HOME MORTGAGE - SECOND-3
NH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
NH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
NH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
NH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
NU001_18	ASSET RECONCILIATION - HOME2 MORT
NU002_18	ASSET RECONCILIATION - WHICH WRONG-HOME2 MORT
NU003_18A	ASSET RECONCILIATION - HOW MUCH -A-HOME2 MORT
NU003_18B	ASSET RECONCILIATION - HOW MUCH-B-HOME2 MORT
NU004_18A	ASSET RECONCILIATION - MIN-A-HOME2 MORT
NU004_18B	ASSET RECONCILIATION - MIN-B-HOME2 MORT
NU005_18A	ASSET RECONCILIATION - MAX-A -HOME2 MORT
NU005_18B	ASSET RECONCILIATION - MAX-B -HOME2 MORT
NU006_18A	ASSET RECONCILIATION - RES-A-HOME2 MORT
NU006_18B	ASSET RECONCILIATION - RES-B-HOME2 MORT
NU022_18A	WHICH WAVE WRONG-A-HOME2 MORT
NU022_18B	WHICH WAVE WRONG-B-HOME2 MORT
HRS 2014:	
OH170M1	HOME MORTGAGE - SECOND-1
OH170M2	HOME MORTGAGE - SECOND-2
OH170M3	HOME MORTGAGE - SECOND-3
OH171	TOTAL OWE MORTGAGE/LOAN - SECOND HOME
OH172	TOT OWE MORTGAGE/LOAN - 2ND HOME- MIN
OH173	TOT OWE MORTGAGE/LOAN - 2ND HOME- MAX
OH174	TOT OWE MORTGAGE/LOAN - 2ND HOME- RESULT
OU001_18	ASSET RECONCILIATION - HOME2 MORT
OU002_18	ASSET RECONCILIATION - WHICH WRONG-HOME2 MORT
OU003_18A	ASSET RECONCILIATION - HOW MUCH -A-HOME2 MORT
OU003_18B	ASSET RECONCILIATION - HOW MUCH-B-HOME2 MORT
OU004_18A	ASSET RECONCILIATION - MIN-A-HOME2 MORT
OU004_18B	ASSET RECONCILIATION - MIN-B-HOME2 MORT
OU005_18A	ASSET RECONCILIATION - MAX-A -HOME2 MORT
OU005_18B	ASSET RECONCILIATION - MAX-B -HOME2 MORT
OU006_18A	ASSET RECONCILIATION - RES-A-HOME2 MORT
OU006_18B	ASSET RECONCILIATION - RES-B-HOME2 MORT
OU022_18A	WHICH WAVE WRONG-A-HOME2 MORT
OU022_18B	WHICH WAVE WRONG-B-HOME2 MORT

### Net value of secondary residence

Wave	Variable	Label	Type
1	H1ANETHB	H1ANETHB:W1 Net Value of 2nd Home--Cross-wave	Cont
2	H2ANETHB	H2ANETHB:W2 Net Value of 2nd Home--Cross-wave	Cont
4	H4ANETHB	H4ANETHB:W4 Net Value of 2nd Home--Cross-wave	Cont
5	H5ANETHB	H5ANETHB:W5 Net Value of 2nd Home--Cross-wave	Cont
6	H6ANETHB	H6ANETHB:W6 Net Value of 2nd Home--Cross-wave	Cont
7	H7ANETHB	H7ANETHB:W7 Net Value of 2nd Home--Cross-wave	Cont
8	H8ANETHB	H8ANETHB:W8 Net Value of 2nd Home--Cross-wave	Cont
9	H9ANETHB	H9ANETHB:W9 Net Value of 2nd Home--Cross-wave	Cont
10	H10ANETHB	H10ANETHB:W10 Net Value of 2nd Home--Cross-wave	Cont
11	H11ANETHB	H11ANETHB:W11 Net Value of 2nd Home--Cross-wave	Cont
12	H12ANETHB	H12ANETHB:W12 Net Value of 2nd Home--Cross-wave	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ANETHB	12652	11944.30	93581.43	-61000.0	5000000.0
H2ANETHB	11420	8863.04	44827.60	-75000.0	1870000.0
H4ANETHB	21384	10381.57	51961.58	-128000.0	1725000.0
H5ANETHB	19579	11894.59	56625.00	-40000.0	1500000.0
H6ANETHB	18165	15777.36	83769.83	-131000.0	3000000.0
H7ANETHB	20129	19775.42	146913.25	-352931.7	10000000.0
H8ANETHB	18469	23690.57	127256.00	-241000.0	6000000.0
H9ANETHB	17217	25206.89	134320.01	-500000.0	4415630.4
H10ANETHB	22034	20073.16	122745.96	-454519.3	5525000.0
H11ANETHB	20554	19946.27	102412.35	-417349.6	3250000.0
H12ANETHB	18747	25290.06	472823.06	-272000.0	61800000.0

### General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

### How Constructed

The net value of second home is calculated as house value less mortgages:

$HwAHoub - HwAMRTB$

Due to problems with the way information about second residences was collected in Wave 2A and in Wave 3, we do

not provide these variables for these waves.

Users should note the following outliers:

1. HHIDPN: 529220010 reported having a second home (OH166) worth \$65,000,000 in Wave 12. S/he also reported having a loan on this second home (OH171) of \$3,200,000. Therefore, the net value of her/his second home is \$61,800,000.

### Net value of non-housing financial wealth

Wave	Variable	Label	Type
1	H1ATOTF	H1ATOTF:W1 Non-Housing Financial Wealth--Cross-wave	Cont
2	H2ATOTF	H2ATOTF:W2 Non-Housing Financial Wealth--Cross-wave	Cont
3	H3ATOTF	H3ATOTF:W3 Non-Housing Financial Wealth--Cross-wave	Cont
4	H4ATOTF	H4ATOTF:W4 Non-Housing Financial Wealth--Cross-wave	Cont
5	H5ATOTF	H5ATOTF:W5 Non-Housing Financial Wealth--Cross-wave	Cont
6	H6ATOTF	H6ATOTF:W6 Non-Housing Financial Wealth--Cross-wave	Cont
7	H7ATOTF	H7ATOTF:W7 Non-Housing Financial Wealth--Cross-wave	Cont
8	H8ATOTF	H8ATOTF:W8 Non-Housing Financial Wealth--Cross-wave	Cont
9	H9ATOTF	H9ATOTF:W9 Non-Housing Financial Wealth--Cross-wave	Cont
10	H10ATOTF	H10ATOTF:W10 Non-Housing Financial Wealth--Cross-wave	Cont
11	H11ATOTF	H11ATOTF:W11 Non-Housing Financial Wealth--Cross-wave	Cont
12	H12ATOTF	H12ATOTF:W12 Non-Housing Financial Wealth--Cross-wave	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTF	12652	51199.42	292302.99	-785000.0	18566035.4
H2ATOTF	19642	61971.03	226561.15	-656841.0	8400000.0
H3ATOTF	17991	96735.51	527280.48	-487000.0	40550000.0
H4ATOTF	21384	103258.07	500303.69	-3636749.0	30322000.0
H5ATOTF	19579	118432.48	480120.82	-485500.0	33500000.0
H6ATOTF	18165	117647.88	813373.46	-598000.0	90000200.0
H7ATOTF	20129	124911.44	561979.93	-2335500.0	28400000.0
H8ATOTF	18469	144167.37	687276.03	-2199892.0	30400000.0
H9ATOTF	17217	141916.69	521500.52	-1400000.0	20612991.1
H10ATOTF	22034	113400.15	501472.60	-1250000.0	21200000.0
H11ATOTF	20554	119879.52	686533.85	-1685000.0	42300000.0
H12ATOTF	18747	140793.09	1608137.19	-1499500.0	202000000.0

### General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

### How Constructed

The net value of non-housing financial wealth is calculated as the sum of the appropriate wealth components less debt:

Sum (HwASTCK, HwACHCK, HwACD, HwABOND, HwAOTHR) - HwADEBT

Note: This total does NOT include the value of IRAs and Keogh plans, nor does it include the value of any real estate, vehicles, or businesses.



<b>Total Wealth (Excluding Secondary Residence)</b>
---

Wave	Variable	Label	Type
1	H1ATOTA	H1ATOTA:W1 Total of all Assets--Cross-wave	Cont
2	H2ATOTA	H2ATOTA:W2 Total of all Assets--Cross-wave	Cont
3	H3ATOTA	H3ATOTA:W3 Total of all Assets--Cross-wave	Cont
4	H4ATOTA	H4ATOTA:W4 Total of all Assets--Cross-wave	Cont
5	H5ATOTA	H5ATOTA:W5 Total of all Assets--Cross-wave	Cont
6	H6ATOTA	H6ATOTA:W6 Total of all Assets--Cross-wave	Cont
7	H7ATOTA	H7ATOTA:W7 Total of all Assets--Cross-wave	Cont
8	H8ATOTA	H8ATOTA:W8 Total of all Assets--Cross-wave	Cont
9	H9ATOTA	H9ATOTA:W9 Total of all Assets--Cross-wave	Cont
10	H10ATOTA	H10ATOTA:W10 Total of all Assets--Cross-wave	Cont
11	H11ATOTA	H11ATOTA:W11 Total of all Assets--Cross-wave	Cont
12	H12ATOTA	H12ATOTA:W12 Total of all Assets--Cross-wave	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTA	12652	215441.62	531552.16	-1094364.3	17933035.4
H2ATOTA	19642	220601.56	517901.07	-4633000.0	15476346.2
H3ATOTA	17991	274996.49	791042.43	-475000.0	41505000.0
H4ATOTA	21384	305075.76	1111117.92	-3636749.0	86210000.0
H5ATOTA	19579	349939.27	960015.80	-355000.0	53200200.0
H6ATOTA	18165	360361.50	1064833.94	-265995.0	90648200.0
H7ATOTA	20129	413329.76	1139494.89	-2245500.0	41868738.6
H8ATOTA	18469	490292.05	1311138.25	-2199392.0	43512000.0
H9ATOTA	17217	493702.30	1233611.13	-1064000.0	40535299.0
H10ATOTA	22034	380714.36	995910.79	-2760000.0	49900000.0
H11ATOTA	20554	392620.05	1282481.45	-1510000.0	71572254.6
H12ATOTA	18747	442344.10	2139110.54	-2751000.0	246300000.0

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The net value of total wealth (excluding second home) is calculated as the sum of all wealth components less all debt:

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Sum (HwAHOUS, HwARLES, HwATRAN, HwABSNS, HwAIRA, HwASTCK, HwACHCK, HwACD, HwABOND, HwAOTHR) less Sum (HwAMORT, HwAHMLN, HwADEBT)

<b>Total Wealth (Including Secondary Residence)</b>
---

Wave	Variable	Label	Type
1	H1ATOTB	H1ATOTB:W1 Total all Assets inc. 2nd Hm--Cross-wave	Cont
2	H2ATOTB	H2ATOTB:W2 Total all Assets inc. 2nd Hm--Cross-wave	Cont
4	H4ATOTB	H4ATOTB:W4 Total all Assets inc. 2nd Hm--Cross-wave	Cont
5	H5ATOTB	H5ATOTB:W5 Total all Assets inc. 2nd Hm--Cross-wave	Cont
6	H6ATOTB	H6ATOTB:W6 Total all Assets inc. 2nd Hm--Cross-wave	Cont
7	H7ATOTB	H7ATOTB:W7 Total all Assets inc. 2nd Hm--Cross-wave	Cont
8	H8ATOTB	H8ATOTB:W8 Total all Assets inc. 2nd Hm--Cross-wave	Cont
9	H9ATOTB	H9ATOTB:W9 Total all Assets inc. 2nd Hm--Cross-wave	Cont
10	H10ATOTB	H10ATOTB:W10 Total all Assets inc. 2nd Hm--Cross-wave	Cont
11	H11ATOTB	H11ATOTB:W11 Total all Assets inc. 2nd Hm--Cross-wave	Cont
12	H12ATOTB	H12ATOTB:W12 Total all Assets inc. 2nd Hm--Cross-wave	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTB	12652	227385.92	551747.18	-1094364.3	18008035.4
H2ATOTB	11420	254983.80	583142.41	-4633000.0	15501346.2
H4ATOTB	21384	315457.32	1123629.73	-3624527.0	86530000.0
H5ATOTB	19579	361833.86	976817.72	-355000.0	53800200.0
H6ATOTB	18165	376138.86	1087807.66	-265995.0	90708200.0
H7ATOTB	20129	433105.18	1184513.46	-2245500.0	41968738.6
H8ATOTB	18469	513982.62	1354996.85	-2199392.0	43512000.0
H9ATOTB	17217	518909.19	1277877.44	-1064000.0	41535299.0
H10ATOTB	22034	400787.51	1033638.41	-2760000.0	50900000.0
H11ATOTB	20554	412566.32	1314965.31	-1510000.0	71572254.6
H12ATOTB	18747	467634.16	2551348.44	-2729000.0	308100000.0

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The net value of total wealth (including second home) is calculated as the sum of all wealth components less all debt:

Sum (HwAHOUS, HwAHOUB, HwARLES, HwATRAN, HwABSNS, HwAIRA, HwASTCK, HwACHCK, HwACD, HwABOND, HwAOTHR) less Sum (HwAMORT, HwAHMLN, HwADEBT, HwAMRTB).

In Wave 2, H2ATOTB is only calculated for 1994 because no questions are asked about a second home in 1993. Total wealth (including secondary residence) cannot be calculated in Wave 3 because no questions were asked about a second home in either 1995 or 1996.

<b>Total Wealth (Excluding IRAs)</b>
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Wave	Variable	Label	Type
1	H1ATOTW	H1ATOTW:W1 Total Wealth less IRA--Cross-wave	Cont
2	H2ATOTW	H2ATOTW:W2 Total Wealth less IRA--Cross-wave	Cont
3	H3ATOTW	H3ATOTW:W3 Total Wealth less IRA--Cross-wave	Cont
4	H4ATOTW	H4ATOTW:W4 Total Wealth less IRA--Cross-wave	Cont
5	H5ATOTW	H5ATOTW:W5 Total Wealth less IRA--Cross-wave	Cont
6	H6ATOTW	H6ATOTW:W6 Total Wealth less IRA--Cross-wave	Cont
7	H7ATOTW	H7ATOTW:W7 Total Wealth less IRA--Cross-wave	Cont
8	H8ATOTW	H8ATOTW:W8 Total Wealth less IRA--Cross-wave	Cont
9	H9ATOTW	H9ATOTW:W9 Total Wealth less IRA--Cross-wave	Cont
10	H10ATOTW	H10ATOTW:W10 Total Wealth less IRA--Cross-wave	Cont
11	H11ATOTW	H11ATOTW:W11 Total Wealth less IRA--Cross-wave	Cont
12	H12ATOTW	H12ATOTW:W12 Total Wealth less IRA--Cross-wave	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTW	12652	197640.90	515401.74	-1121864.3	17888035.4
H2ATOTW	19642	200463.79	493033.55	-4633000.0	15476346.2
H3ATOTW	17991	247968.02	754467.52	-475000.0	41505000.0
H4ATOTW	21384	265915.27	1083332.80	-3636749.0	85960000.0
H5ATOTW	19579	297850.30	899008.04	-355000.0	50000200.0
H6ATOTW	18165	312637.73	1026519.32	-265995.0	90628200.0
H7ATOTW	20129	361753.30	1048732.85	-2313500.0	36352800.0
H8ATOTW	18469	423672.65	1150012.16	-2199392.0	31800000.0
H9ATOTW	17217	428344.24	1170066.46	-1064000.0	40535299.0
H10ATOTW	22034	324133.96	930606.43	-2760000.0	49200000.0
H11ATOTW	20554	331223.29	1228369.79	-1680000.0	71454254.6
H12ATOTW	18747	368445.23	2078215.34	-2751000.0	245000000.0

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The net value of total wealth less IRA is calculated as the sum of all wealth components except the value of IRAs and Keogh plans less all debt:

Sum (HwAHOUS, HwARLES, HwATRAN, HwABSNS, HwASTCK, HwACHCK, HwACD, HwABOND, HwAOTHR)  
less Sum (HwAMORT, HwAHMLN, HwADEBT)

### Total Non-housing Wealth

Wave	Variable	Label	Type
1	H1ATOTN	H1ATOTN:W1 Total Non-Housing Assets--Cross-wave	Cont
2	H2ATOTN	H2ATOTN:W2 Total Non-Housing Assets--Cross-wave	Cont
3	H3ATOTN	H3ATOTN:W3 Total Non-Housing Assets--Cross-wave	Cont
4	H4ATOTN	H4ATOTN:W4 Total Non-Housing Assets--Cross-wave	Cont
5	H5ATOTN	H5ATOTN:W5 Total Non-Housing Assets--Cross-wave	Cont
6	H6ATOTN	H6ATOTN:W6 Total Non-Housing Assets--Cross-wave	Cont
7	H7ATOTN	H7ATOTN:W7 Total Non-Housing Assets--Cross-wave	Cont
8	H8ATOTN	H8ATOTN:W8 Total Non-Housing Assets--Cross-wave	Cont
9	H9ATOTN	H9ATOTN:W9 Total Non-Housing Assets--Cross-wave	Cont
10	H10ATOTN	H10ATOTN:W10 Total Non-Housing Assets--Cross-wave	Cont
11	H11ATOTN	H11ATOTN:W11 Total Non-Housing Assets--Cross-wave	Cont
12	H12ATOTN	H12ATOTN:W12 Total Non-Housing Assets--Cross-wave	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTN	12652	154007.99	522707.16	-720000.0	21283035.4
H2ATOTN	19642	152212.72	467731.78	-456841.0	15356346.2
H3ATOTN	17991	201934.97	744691.01	-475000.0	41355000.0
H4ATOTN	21384	224118.46	1050658.94	-3636749.0	85710000.0
H5ATOTN	19579	257499.48	830300.66	-390000.0	50200000.0
H6ATOTN	18165	254363.40	1008090.72	-277000.0	90148200.0
H7ATOTN	20129	285207.68	1007586.06	-2245500.0	35352000.0
H8ATOTN	18469	332419.13	1205136.94	-2199392.0	43162000.0
H9ATOTN	17217	334697.62	1034199.63	-1144000.0	40505299.0
H10ATOTN	22034	263229.69	882681.61	-943500.0	46900000.0
H11ATOTN	20554	279143.70	1198500.38	-1510000.0	71322254.6
H12ATOTN	18747	316929.86	2073151.78	-1454500.0	244900000.0

### General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

### How Constructed

The net value of all non-housing wealth is calculated as the sum of the appropriate wealth components less debt:

Sum (HwARLES, HwATRAN, HwABSNS, HwAIRA, HwASTCK, HwACHCK, HwACD, HwABOND, HwAOTHR) less

**HwADEBT**

Note that the value of the primary residence, mortgages, and home loans are NOT included.



<b>Change in wealth</b>
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Wave	Variable	Label	Type
2	H2ATOTAC	H2ATOTAC:W2 Change in Total Assets w/o 2nd home	Cont
3	H3ATOTAC	H3ATOTAC:W3 Change in Total Assets w/o 2nd home	Cont
4	H4ATOTAC	H4ATOTAC:W4 Change in Total Assets w/o 2nd home	Cont
5	H5ATOTAC	H5ATOTAC:W5 Change in Total Assets w/o 2nd home	Cont
6	H6ATOTAC	H6ATOTAC:W6 Change in Total Assets w/o 2nd home	Cont
7	H7ATOTAC	H7ATOTAC:W7 Change in Total Assets w/o 2nd home	Cont
8	H8ATOTAC	H8ATOTAC:W8 Change in Total Assets w/o 2nd home	Cont
9	H9ATOTAC	H9ATOTAC:W9 Change in Total Assets w/o 2nd home	Cont
10	H10ATOTAC	H10ATOTAC:W10 Change in Total Assets w/o 2nd home	Cont
11	H11ATOTAC	H11ATOTAC:W11 Change in Total Assets w/o 2nd home	Cont
12	H12ATOTAC	H12ATOTAC:W12 Change in Total Assets w/o 2nd home	Cont
2	H2ATOTBC	H2ATOTBC:W2 Change in Total Assets w/ 2nd home	Cont
5	H5ATOTBC	H5ATOTBC:W5 Change in Total Assets w/ 2nd home	Cont
6	H6ATOTBC	H6ATOTBC:W6 Change in Total Assets w/ 2nd home	Cont
7	H7ATOTBC	H7ATOTBC:W7 Change in Total Assets w/ 2nd home	Cont
8	H8ATOTBC	H8ATOTBC:W8 Change in Total Assets w/ 2nd home	Cont
9	H9ATOTBC	H9ATOTBC:W9 Change in Total Assets w/ 2nd home	Cont
10	H10ATOTBC	H10ATOTBC:W10 Change in Total Assets w/ 2nd home	Cont
11	H11ATOTBC	H11ATOTBC:W11 Change in Total Assets w/ 2nd home	Cont
12	H12ATOTBC	H12ATOTBC:W12 Change in Total Assets w/ 2nd home	Cont
2	H2ATOTWC	H2ATOTWC:W2 Change in Tot Wealth /No Ira	Cont
3	H3ATOTWC	H3ATOTWC:W3 Change in Tot Wealth /No Ira	Cont
4	H4ATOTWC	H4ATOTWC:W4 Change in Tot Wealth /No Ira	Cont
5	H5ATOTWC	H5ATOTWC:W5 Change in Tot Wealth /No Ira	Cont
6	H6ATOTWC	H6ATOTWC:W6 Change in Tot Wealth /No Ira	Cont
7	H7ATOTWC	H7ATOTWC:W7 Change in Tot Wealth /No Ira	Cont
8	H8ATOTWC	H8ATOTWC:W8 Change in Tot Wealth /No Ira	Cont
9	H9ATOTWC	H9ATOTWC:W9 Change in Tot Wealth /No Ira	Cont
10	H10ATOTWC	H10ATOTWC:W10 Change in Tot Wealth /No Ira	Cont
11	H11ATOTWC	H11ATOTWC:W11 Change in Tot Wealth /No Ira	Cont
12	H12ATOTWC	H12ATOTWC:W12 Change in Tot Wealth /No Ira	Cont
2	H2ATOTHC	H2ATOTHC:W2 Change in Net Prim Res House Value	Cont
3	H3ATOTHC	H3ATOTHC:W3 Change in Net Prim Res House Value	Cont
4	H4ATOTHC	H4ATOTHC:W4 Change in Net Prim Res House Value	Cont
5	H5ATOTHC	H5ATOTHC:W5 Change in Net Prim Res House Value	Cont
6	H6ATOTHC	H6ATOTHC:W6 Change in Net Prim Res House Value	Cont
7	H7ATOTHC	H7ATOTHC:W7 Change in Net Prim Res House Value	Cont
8	H8ATOTHC	H8ATOTHC:W8 Change in Net Prim Res House Value	Cont
9	H9ATOTHC	H9ATOTHC:W9 Change in Net Prim Res House Value	Cont
10	H10ATOTHC	H10ATOTHC:W10 Change in Net Prim Res House Value	Cont
11	H11ATOTHC	H11ATOTHC:W11 Change in Net Prim Res House Value	Cont
12	H12ATOTHC	H12ATOTHC:W12 Change in Net Prim Res House Value	Cont
2	H2ATOTFC	H2ATOTFC:W2 Change in Non-House Fin Wlth	Cont
3	H3ATOTFC	H3ATOTFC:W3 Change in Non-House Fin Wlth	Cont
4	H4ATOTFC	H4ATOTFC:W4 Change in Non-House Fin Wlth	Cont
5	H5ATOTFC	H5ATOTFC:W5 Change in Non-House Fin Wlth	Cont
6	H6ATOTFC	H6ATOTFC:W6 Change in Non-House Fin Wlth	Cont
7	H7ATOTFC	H7ATOTFC:W7 Change in Non-House Fin Wlth	Cont
8	H8ATOTFC	H8ATOTFC:W8 Change in Non-House Fin Wlth	Cont
9	H9ATOTFC	H9ATOTFC:W9 Change in Non-House Fin Wlth	Cont
10	H10ATOTFC	H10ATOTFC:W10 Change in Non-House Fin Wlth	Cont
11	H11ATOTFC	H11ATOTFC:W11 Change in Non-House Fin Wlth	Cont
12	H12ATOTFC	H12ATOTFC:W12 Change in Non-House Fin Wlth	Cont
2	H2ATOTNC	H2ATOTNC:W2 Change in Tot NonHouse Assts	Cont
3	H3ATOTNC	H3ATOTNC:W3 Change in Tot NonHouse Assts	Cont
4	H4ATOTNC	H4ATOTNC:W4 Change in Tot NonHouse Assts	Cont
5	H5ATOTNC	H5ATOTNC:W5 Change in Tot NonHouse Assts	Cont
6	H6ATOTNC	H6ATOTNC:W6 Change in Tot NonHouse Assts	Cont
7	H7ATOTNC	H7ATOTNC:W7 Change in Tot NonHouse Assts	Cont
8	H8ATOTNC	H8ATOTNC:W8 Change in Tot NonHouse Assts	Cont
9	H9ATOTNC	H9ATOTNC:W9 Change in Tot NonHouse Assts	Cont

10	H10ATOTNC	H10ATOTNC:W10	Change in Tot	NonHouse Assts	Cont
11	H11ATOTNC	H11ATOTNC:W11	Change in Tot	NonHouse Assts	Cont
12	H12ATOTNC	H12ATOTNC:W12	Change in Tot	NonHouse Assts	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H2ATOTAC	11423	27420.29	486808.53	-12947194.9	14697158.0
H3ATOTAC	17721	49689.69	668370.80	-13128363.8	38943853.9
H4ATOTAC	16293	28185.24	980002.28	-27525711.7	70090000.0
H5ATOTAC	19314	37198.21	1109941.29	-81353000.0	38504500.0
H6ATOTAC	17938	596.00	1042925.59	-37157000.0	89443200.0
H7ATOTAC	16657	56536.67	1146151.46	-89499200.0	29771000.0
H8ATOTAC	18261	70190.71	926289.23	-25440000.0	34307868.9
H9ATOTAC	17074	-3350.72	988246.49	-38147000.0	21979500.0
H10ATOTAC	15595	-56491.13	833467.92	-31485000.0	14190118.2
H11ATOTAC	20223	8765.63	1005014.89	-35370000.0	63397254.6
H12ATOTAC	18569	40736.33	1387724.61	-61152254.6	123096750.0
H2ATOTBC	11317	25541.54	497963.71	-13001194.9	14722158.0
H5ATOTBC	18859	40914.93	1116919.86	-81173000.0	38604500.0
H6ATOTBC	17710	3535.18	1046768.40	-36847000.0	89353200.0
H7ATOTBC	16567	60336.88	1158755.60	-89489200.0	29771000.0
H8ATOTBC	18231	73572.45	930521.62	-25210000.0	34307868.9
H9ATOTBC	17058	-2759.61	995505.13	-38147000.0	21979500.0
H10ATOTBC	15579	-59447.70	843736.76	-31485000.0	14190118.2
H11ATOTBC	20213	8233.83	1012139.68	-35770000.0	63397254.6
H12ATOTBC	18568	43850.67	1544506.44	-61152254.6	153996750.0
H2ATOTWC	11423	17946.77	471607.83	-12932194.9	14697158.0
H3ATOTWC	17721	44002.56	650190.64	-13128363.8	38943853.9
H4ATOTWC	16293	19044.81	965252.22	-25435552.0	70040000.0
H5ATOTWC	19314	25910.93	1086126.86	-81295000.0	38499500.0
H6ATOTWC	17938	7785.94	1021913.97	-37378000.0	89423200.0
H7ATOTWC	16657	53836.80	1141428.09	-89479200.0	29771000.0
H8ATOTWC	18261	55328.09	823620.72	-25140000.0	27142527.0
H9ATOTWC	17074	-784.47	876159.94	-28490000.0	21979500.0
H10ATOTWC	15595	-55867.76	810447.72	-31485000.0	13569422.6
H11ATOTWC	20223	5339.04	995727.38	-34800000.0	63444254.6
H12ATOTWC	18569	29647.29	1369611.64	-61294254.6	122446750.0
H2ATOTHC	11423	6279.36	124738.60	-5290000.0	4735000.0
H3ATOTHC	17721	3777.91	83763.64	-2425296.2	4490000.0
H4ATOTHC	16293	6288.64	227675.81	-1100000.0	17525296.2
H5ATOTHC	19314	8962.41	185892.23	-9000000.0	9100000.0
H6ATOTHC	17938	11583.27	226321.78	-13900000.0	7496438.1
H7ATOTHC	16657	22148.42	299380.83	-9985000.0	23140000.0
H8ATOTHC	18261	28380.00	311759.76	-25000000.0	4640000.0
H9ATOTHC	17074	-1439.25	343165.72	-4190000.0	22850000.0
H10ATOTHC	15595	-27869.44	360316.47	-22000000.0	8205000.0
H11ATOTHC	20223	-4909.79	152570.14	-8500000.0	6900000.0
H12ATOTHC	18569	10700.66	125790.15	-2500000.0	4261525.6
H2ATOTFC	11423	10220.26	288781.80	-16557985.2	5306216.4
H3ATOTFC	17721	33452.40	495106.56	-4942000.0	38498853.9
H4ATOTFC	16293	12276.62	467933.77	-20485232.9	24995000.0

H5ATOTFC	19314	15147.04	492801.36	-22895000.0	28300000.0
H6ATOTFC	17938	-1739.42	825702.97	-19308332.5	89998200.0
H7ATOTFC	16657	13956.22	896969.04	-89753700.0	26035359.7
H8ATOTFC	18261	15428.26	533348.71	-15281404.3	27802527.0
H9ATOTFC	17074	-799.75	552211.62	-28112209.1	18511931.8
H10ATOTFC	15595	-1731.23	428916.72	-19870491.1	11658073.0
H11ATOTFC	20223	6709.21	612691.51	-20300000.0	40281003.5
H12ATOTFC	18569	16818.89	984208.76	-29706029.1	100949250.0
H2ATOTNC	11423	21140.94	487365.16	-16462194.9	14877158.0
H3ATOTNC	17721	45911.78	657976.51	-13228363.8	38893853.9
H4ATOTNC	16293	21896.60	955016.19	-27475711.7	70070000.0
H5ATOTNC	19314	28235.80	1069763.73	-80853000.0	37500000.0
H6ATOTNC	17938	-10987.27	996621.68	-28357000.0	89393200.0
H7ATOTNC	16657	34388.25	1099781.50	-89799200.0	29685000.0
H8ATOTNC	18261	41810.71	874762.12	-17338000.0	35057868.9
H9ATOTNC	17074	-1911.47	946167.24	-38177000.0	21376299.0
H10ATOTNC	15595	-28621.69	758962.14	-35010000.0	14240118.2
H11ATOTNC	20223	13675.42	998359.82	-35370000.0	63967254.6
H12ATOTNC	18569	30035.67	1376780.47	-61152254.6	122396750.0

## General Comments

Wealth measures are reported in nominal dollars. When an HRS or AHEAD wealth component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in the unfolding brackets used to determine a range of wealth when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. These differences are also discussed in more detail above in the "Wealth and Income Imputations" section.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for real estate, business, stocks, bonds, and checking assets, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

Change in wealth variables take the difference between the current and previous interviews. For example, the Wave 2 change in wealth is the Wave 2 wealth less the Wave 1 wealth. If a Respondent misses an interview, the change is adjusted to account for the longer period between interviews. For example, if a Respondent misses Wave 2 but responds to Wave 1 and Wave 3, the difference between Wave 3 and Wave 1 wealth is divided by 2. If a Respondent misses 2 interviews, the difference is divided by 3, and so on.

If the Respondent has no prior interview, then the change in wealth variables are set to missing value .P (no prior interview).

$$HwATOTHC = (HwATOTH - H[pw]ATOTH) / (w-pw)$$

$$HwATOTFC = (HwATOTF - H[pw]ATOTF) / (w-pw)$$

$$HwATOTAC = (HwATOTA - H[pw]ATOTA) / (w-pw)$$

$$HwATOTBC = (HwATOTB - H[pw]ATOTB) / (w-pw)$$

$$\text{HwATOTNC} = (\text{HwATOTN} - \text{H[pw]ATOTN}) / (\text{w} - \text{pw})$$

$$\text{HwATOTWC} = (\text{HwATOTW} - \text{H[pw]ATOTW}) / (\text{w} - \text{pw})$$

Where "w" is the current wave and "pw" is the last previous interview to which the Respondent responded.

It is important to note that HwATOTBC will only be calculated based on the waves for which second residence information is currently available, that is - Wave 2H, and from Wave 4 forward.

**Section D: Income**

### Individual Earnings

Wave	Variable	Label	Type
1	R1IEARN	R1IEARN:W1 Income:R Earnings	Cont
2	R2IEARN	R2IEARN:W2 Income:R Earnings	Cont
3	R3IEARN	R3IEARN:W3 Income:R Earnings	Cont
4	R4IEARN	R4IEARN:W4 Income:R Earnings	Cont
5	R5IEARN	R5IEARN:W5 Income:R Earnings	Cont
6	R6IEARN	R6IEARN:W6 Income:R Earnings	Cont
7	R7IEARN	R7IEARN:W7 Income:R Earnings	Cont
8	R8IEARN	R8IEARN:W8 Income:R Earnings	Cont
9	R9IEARN	R9IEARN:W9 Income:R Earnings	Cont
10	R10IEARN	R10IEARN:W10 Income:R Earnings	Cont
11	R11IEARN	R11IEARN:W11 Income:R Earnings	Cont
12	R12IEARN	R12IEARN:W12 Income:R Earnings	Cont
1	S1IEARN	S1IEARN:W1 Income:Sp Earnings	Cont
2	S2IEARN	S2IEARN:W2 Income:Sp Earnings	Cont
3	S3IEARN	S3IEARN:W3 Income:Sp Earnings	Cont
4	S4IEARN	S4IEARN:W4 Income:Sp Earnings	Cont
5	S5IEARN	S5IEARN:W5 Income:Sp Earnings	Cont
6	S6IEARN	S6IEARN:W6 Income:Sp Earnings	Cont
7	S7IEARN	S7IEARN:W7 Income:Sp Earnings	Cont
8	S8IEARN	S8IEARN:W8 Income:Sp Earnings	Cont
9	S9IEARN	S9IEARN:W9 Income:Sp Earnings	Cont
10	S10IEARN	S10IEARN:W10 Income:Sp Earnings	Cont
11	S11IEARN	S11IEARN:W11 Income:Sp Earnings	Cont
12	S12IEARN	S12IEARN:W12 Income:Sp Earnings	Cont
1	R1IFEARN	R1IFEARN:W1 ImpFlag:R Earnings	Categ
2	R2IFEARN	R2IFEARN:W2 ImpFlag:R Earnings	Categ
3	R3IFEARN	R3IFEARN:W3 ImpFlag:R Earnings	Categ
4	R4IFEARN	R4IFEARN:W4 ImpFlag:R Earnings	Categ
5	R5IFEARN	R5IFEARN:W5 ImpFlag:R Earnings	Categ
6	R6IFEARN	R6IFEARN:W6 ImpFlag:R Earnings	Categ
7	R7IFEARN	R7IFEARN:W7 ImpFlag:R Earnings	Categ
8	R8IFEARN	R8IFEARN:W8 ImpFlag:R Earnings	Categ
9	R9IFEARN	R9IFEARN:W9 ImpFlag:R Earnings	Categ
10	R10IFEARN	R10IFEARN:W10 ImpFlag:R Earnings	Categ
11	R11IFEARN	R11IFEARN:W11 ImpFlag:R Earnings	Categ
12	R12IFEARN	R12IFEARN:W12 ImpFlag:R Earnings	Categ
1	S1IFEARN	S1IFEARN:W1 ImpFlag:Sp Earnings	Categ
2	S2IFEARN	S2IFEARN:W2 ImpFlag:Sp Earnings	Categ
3	S3IFEARN	S3IFEARN:W3 ImpFlag:Sp Earnings	Categ
4	S4IFEARN	S4IFEARN:W4 ImpFlag:Sp Earnings	Categ
5	S5IFEARN	S5IFEARN:W5 ImpFlag:Sp Earnings	Categ
6	S6IFEARN	S6IFEARN:W6 ImpFlag:Sp Earnings	Categ
7	S7IFEARN	S7IFEARN:W7 ImpFlag:Sp Earnings	Categ
8	S8IFEARN	S8IFEARN:W8 ImpFlag:Sp Earnings	Categ
9	S9IFEARN	S9IFEARN:W9 ImpFlag:Sp Earnings	Categ
10	S10IFEARN	S10IFEARN:W10 ImpFlag:Sp Earnings	Categ
11	S11IFEARN	S11IFEARN:W11 ImpFlag:Sp Earnings	Categ
12	S12IFEARN	S12IFEARN:W12 ImpFlag:Sp Earnings	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IEARN	12652	19428.86	30476.14	0.0	1250000.0
R2IEARN	19642	11612.67	33855.65	0.0	3000000.0
R3IEARN	17991	10429.33	23981.14	0.0	770000.0
R4IEARN	21384	11384.74	35485.16	0.0	3530000.0

R5IEARN	19579	10879.46	29811.36	0.0	2000000.0
R6IEARN	18165	10706.43	28333.91	0.0	757000.0
R7IEARN	20129	14117.66	37776.78	0.0	2000000.0
R8IEARN	18469	13105.53	57682.38	0.0	6525000.0
R9IEARN	17217	12809.24	35515.12	0.0	1425000.0
R10IEARN	22034	16994.85	39414.70	0.0	1400000.0
R11IEARN	20554	16298.31	39898.94	0.0	1053000.0
R12IEARN	18747	16013.02	42036.22	0.0	1600000.0
S1IEARN	10279	19681.35	28790.82	0.0	600000.0
S2IEARN	13672	13941.62	38622.82	0.0	3000000.0
S3IEARN	12333	12294.39	26207.72	0.0	770000.0
S4IEARN	14515	13457.97	40689.46	0.0	3530000.0
S5IEARN	13041	12818.27	28035.48	0.0	705000.0
S6IEARN	11859	12865.60	31390.66	0.0	757000.0
S7IEARN	13352	17103.13	43984.75	0.0	2000000.0
S8IEARN	12052	16011.97	69522.75	0.0	6525000.0
S9IEARN	11012	15768.49	40810.02	0.0	1425000.0
S10IEARN	14235	19742.73	42187.01	0.0	1400000.0
S11IEARN	13080	19671.57	45158.56	0.0	1053000.0
S12IEARN	11620	20004.04	47797.55	0.0	1000000.0
R1IFEARN	12652	0.88	0.93	0.0	9.0
R2IFEARN	19642	0.56	0.95	0.0	9.0
R3IFEARN	17991	0.48	0.93	0.0	9.0
R4IFEARN	21384	0.52	1.04	0.0	9.0
R5IFEARN	19579	0.46	0.94	0.0	9.0
R6IFEARN	18165	0.41	0.75	0.0	9.0
R7IFEARN	20129	0.48	0.85	0.0	9.0
R8IFEARN	18469	0.43	0.79	0.0	9.0
R9IFEARN	17217	0.41	0.82	0.0	9.0
R10IFEARN	22034	0.61	1.32	0.0	9.0
R11IFEARN	20554	0.50	0.99	0.0	9.0
R12IFEARN	18747	0.49	1.06	0.0	9.0
S1IFEARN	12652	2.23	2.91	0.0	9.0
S2IFEARN	19642	2.89	3.47	0.0	9.0
S3IFEARN	17991	2.88	3.55	0.0	9.0
S4IFEARN	21384	2.97	3.58	0.0	9.0
S5IFEARN	19579	3.02	3.61	0.0	9.0
S6IFEARN	18165	3.08	3.64	0.0	9.0
S7IFEARN	20129	3.06	3.60	0.0	9.0
S8IFEARN	18469	3.10	3.64	0.0	9.0
S9IFEARN	17217	3.19	3.68	0.0	9.0
S10IFEARN	22034	3.28	3.68	0.0	9.0
S11IFEARN	20554	3.27	3.68	0.0	9.0
S12IFEARN	18747	3.40	3.72	0.0	9.0

## Categorical Variable Codes

Value	R1FEARN	R2FEARN	R3FEARN	R4FEARN	R5FEARN	R6FEARN	R7FEARN
0.No income	3624	11307	11455	13423	12824	12365	12671
1.No imputations	7595	6580	5343	6290	5387	4421	5844
2.Some imputation	1338	1621	1067	1464	1231	1334	1525
9.No Fin Resp	95	134	126	207	137	45	89

Value	R8FEARN	R9FEARN	R10FEARN	R11FEARN	R12FEARN
0.No income	12312	11773	13407	13044	12258
1.No imputations	4879	4321	6744	5998	5172
2.Some imputation	1213	1048	1465	1341	1118
9.No Fin Resp	65	75	418	171	199

Value	S1FEARN	S2FEARN	S3FEARN	S4FEARN	S5FEARN	S6FEARN	S7FEARN
0.No income	2924	6894	7294	8455	7983	7588	7816
1.No imputations	6089	5192	4128	4797	4035	3272	4319
2.Some imputation	1171	1483	825	1078	930	963	1140
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	36	77

Value	S8FEARN	S9FEARN	S10FEARN	S11FEARN	S12FEARN
0.No income	7513	7031	8057	7724	7055
1.No imputations	3598	3128	4784	4225	3577
2.Some imputation	889	791	1067	988	828
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures found here, in the RAND HRS Longitudinal File. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.



Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

For the HRS sample, **RwIEARN** is the sum of Respondent's wage/salary income, bonuses/overtime pay/commissions/tips, 2nd job or military reserve earnings, professional practice or trade income. For the AHEAD sample, Wave 2A **R2IEARN** includes only the earnings income as asked. In Wave 3A, the calculation of **R3IEARN** does not include income from a 2nd job, as it was not asked in this wave. **RwIFEARN** is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

For the HRS sample, **SwIEARN** is the sum of spouse's wage/salary income, bonuses/overtime pay/commissions/tips, 2nd job or military reserve earnings, professional practice or trade income. For the AHEAD sample, Wave 2A **S2IEARN** includes only the earnings income as asked. In Wave 3A, the calculation of **S3IEARN** does not include income from a 2nd job, as it was not asked in this wave. **SwIFEARN** is a flag that indicates whether any components are imputed.

The individual components: **RwIWAGE**, **RwIBON**, **RwI2ND**, **RwITRAD** and their imputation flags (**RwIFvar**) are available in the RAND HRS Detailed Imputations File.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in Waves 2 and 3, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, **R2IFBON**, **S2IFBON**, **R2IFTRAD**, **S2IFTRAD**, **R2IFWAGE**, **S2IFWAGE**, **R2IF2ND**, **S2IF2ND**, **R3IF2ND**, and **S3IF2ND** are set to .Q to indicate that the corresponding income components are not available in Waves 2A and 3A.

## Cross Wave Differences in Original HRS Data

The components of earnings remain the same across all HRS waves. However, there are fewer specific questions for the AHEAD sample. In Wave 2A, Respondents are only asked about last year's earnings of all jobs combined. Wave 3A questions cover wages, bonuses and professional practice income but did not ask about income from a second job. Therefore, this component is not part of the earnings calculation.

From Wave 2H forward, if the Respondent refuses or does not know the value of an income component, a series of unfolding bracket questions are asked. The bracket amounts and entry points for some components vary across waves. In Waves 1 and 2A, no unfolding bracket questions are asked.

For AHEAD Respondents in Waves 2A and 3A, the income components corresponding to imputation flags **R2IFBON**, **S2IFBON**, **R2IFTRAD**, **S2IFTRAD**, **R2IFWAGE**, **S2IFWAGE**, **R2IF2ND**, **S2IF2ND**, **R3IF2ND**, and **S3IF2ND** are not available.

## HRS Variables Used

HRS 1992:	
V15402	N2A:N4A:91:R1-PAY/SA:IND
V15403	N3:N5:91-R1-GROSS AM:IND
V15404	N6:1991:R2-PAY/SAL I:IND
V15405	N7:1991:R2 AMT REC:IND
V15406	N2B:N4B:91:R1-BONUS/:IND
V15407	N3:N5:91-R1-GROSS AM:IND

V15408	N6:1991:R2-BONUS/TIP:IND
V15409	N7:1991: R2 AMT RE:IND
V15410	N2C:N4C:91:R1-PRO IN:IND
V15411	N3:N5:91-R1-GROSS AM:IND
V15412	N6:1991:R2-PRO PRACT:IND
V15413	N7:1991: R2 AMT RE:IND
V15414	N2D:N4D:91:R1-OTH IN:IND
V15415	N3:N5:91-R1-GROSS AM:IND
V15416	N6:1991:R2-OTHER INC:IND
V15417	N7:1991:R2 AMT REC:IND
V5402	N2A:N4A:91:R1-PAY/SA:IMP
V5403	N3:N5:91:R1-GROS \$AM:IMP
V5404	N6:1991:R2-PAY/SAL I:IMP
V5405	N7:1991:R2-\$ AMT RE:IMP
V5406	N2B:N4B:91:R1-BONUS/:IMP
V5407	N3:N5:91:R1-GROS \$AM:IMP
V5408	N6:1991:R2-BONUS/TIP:IMP
V5409	N7:1991:R2-\$ AMT REC:IMP
V5410	N2C:N4C:91:R1-PRO IN:IMP
V5411	N3:N5:91:R1-GROS \$AM:IMP
V5412	N6:1991:R2-PRO PRACT:IMP
V5413	N7:1991:R2-\$ AMT RE:IMP
V5414	N2D:N4D:91:R1-OTH IN:IMP
V5415	N3:N5:91:R1-GROS \$AM:IMP
V5416	N6:1991:R2-OTHER INC:IMP
V5417	N7:1991:R2-\$ AMT RE:IMP
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1188	G7. CURR WORK: \$ EARNED LAST MONTH
B1189	G8. CURR WORK: \$ EARNED 1992-1993
B1227	G17. JOB LAST 2 YRS: TOT \$ EARN 1992/93
HRS 1994:	
W15912	N3a. Imputation flag
W15913	N4a1. Imputation flag
W15918	N3b. Imputation flag
W15919	N4b1. Imputation flag
W15924	N3c. Imputation flag
W15925	N4c1. Imputation flag
W15930	N3d. Imputation flag
W15931	N4d1. Imputation flag
W15936	N5a. Imputation flag
W15937	N6a1. Imputation flag
W15942	N7a. Imputation flag
W15943	N8a1. Imputation flag
W15948	N5b. Imputation flag
W15949	N6b1. Imputation flag
W15954	N7b. Imputation flag
W15955	N8b1. Imputation flag
W15960	N5c. Imputation flag
W15961	N6c1. Imputation flag
W15966	N7c. Imputation flag
W15967	N8c1. Imputation flag
W15972	N5d. Imputation flag
W15973	N6d1. Imputation flag
W15978	N7d. Imputation flag
W15979	N8d1. Imputation flag
W5912	N3a.R-WAGE/SALARY FROM J
W5913	N4a1.R-AMOUNT INCOME 199

W5914	N4a1. Brackets
W5918	N3b.R-INCOME FROM PROF P
W5919	N4b1.R-AMT INCOME FROM P
W5920	N4b1. Brackets
W5924	N3c.R-INCOME FROM BONUS
W5925	N4c1.R-AMT INCOME FROM B
W5926	N4c1. Brackets
W5930	N3d.R-INCOME FROM SECOND
W5931	N4d1.R-AMT INCOME FROM S
W5932	N4f1. Brackets
W5936	N5a.R-WAGE/SALARY FROM J
W5937	N6a1.R-AMOUNT INCOME 199
W5938	N6a1. Brackets
W5942	N7a.SP-WAGE/SALARY FROM
W5943	N8a1.SP-AMOUNT INCOME 19
W5944	N8a1. Brackets
W5948	N5b.R-INCOME FROM PROF P
W5949	N6b1.R-AMT INCOME FROM P
W5950	N6b1. Brackets
W5954	N7b.SP-INCOME FROM PROF
W5955	N8b1.SP-AMT INCOME FROM
W5956	N8b1. Brackets
W5960	N5c.R-INCOME FROM BONUS
W5961	N6c1.R-AMT INCOME FROM B
W5962	N6c1. Brackets
W5966	N7c.SP-INCOME FROM BONUS
W5967	N8c1.SP-AMT INCOME FROM
W5968	N8c1. Brackets
W5972	N5d.R-INCOME FROM SECOND
W5973	N6d1.R-AMT INCOME FROM S
W5974	N6d1. Brackets
W5978	N7d.SP-INCOME FROM SECON
W5979	N8d1.SP-AMT INCOME FROM
W5980	N8d1. Brackets
AHEAD 1995:	
D4534_2	J57A.R EARNINGS SELF EMP
D4534_3	J57A.R EARNINGS SELF EMP
D4534_4	J57A.R EARNINGS SELF EMP
D4536_2	J57B.R \$ EARNINGS LCY
D4536_3	J57B.R \$ EARNINGS LCY
D4536_4	J57B.R \$ EARNINGS LCY
D4537_2	J57B.DK-1
D4537_3	J57B.DK-1
D4537_4	J57B.DK-1
D4538_2	J57C.DK-2
D4538_3	J57C.DK-2
D4538_4	J57C.DK-2
D4539_2	J57D.DK-3
D4539_3	J57D.DK-3
D4539_4	J57D.DK-3
D4547_2	J58A.SP EARNINGS SELF EMP
D4547_3	J58A.SP EARNINGS SELF EMP
D4547_4	J58A.SP EARNINGS SELF EMP
D4549_2	J58B.SP \$ EARNINGS LCY
D4549_3	J58B.SP \$ EARNINGS LCY
D4549_4	J58B.SP \$ EARNINGS LCY
D4550_2	J58B.DK-1
D4550_3	J58B.DK-1
D4550_4	J58B.DK-1

D4551_2	J58C.DK-2
D4551_3	J58C.DK-2
D4551_4	J58C.DK-2
D4552_2	J58D.DK-3
D4552_3	J58D.DK-3
D4552_4	J58D.DK-3
HRS 1996:	
E3882	J7.R WAGES AND SALARY LCYEAR
E3883	J8.R HOW MUCH WAGES AND SALARY
E3884	J8A.R \$ WAGES AND SALARY DK-25K
E3885	J8B.R \$ WAGES AND SALARY DK-50K
E3886	J8C.R \$ WAGES AND SALARY DK-100K
E3887	J8D.R \$ WAGES AND SALARY DK-5K
E3889	J9.R PROF PRACTICE OR TRADE LCYEAR
E3890	J10.R HOW MUCH PROF PRACTICE OR TRADE
E3891	J10A.R \$ PROF PRAC TRADE DK-25K
E3892	J10B.R \$ PROF PRAC TRADE DK-50K
E3893	J10C.R \$ PROF PRAC TRADE DK-100K
E3894	J10D.R \$ PROF PRAC TRADE DK-5K
E3896	J11.R TIPS, BONUSES, COMMISSION LCYEAR
E3897	J11A.R HOW MUCH TIPS, BONUSES, COMMISSIO
E3898	J11B.R TIPS BONUS COMMS LCY DK-5K
E3899	J11C.R TIPS BONUS COMMS LCY DK-25K
E3900	J11D.R TIPS BONUS COMMS LCY DK-50K
E3901	J11E.R TIPS BONUS COMMS LCY DK-2.5K
E3902	J12.R 2ND JOB
E3903	J12A.HOW MUCH OTHER INCOME LCY
E3904	J12B.\$ OTHER INCOME LCY DK-5K
E3905	J12C.\$ OTHER INCOME LCY DK-25K
E3906	J12D.\$ OTHER INCOME LCY DK-50K
E3907	J12E.\$ OTHER INCOME LCY DK-2.5K
E3915	J15.SP WAGES AND SALARY LCYEAR
E3916	J16.SP HOW MUCH WAGES AND SALARY
E3917	J16A.SP \$ WAGES AND SALARY DK-25K
E3918	J16B.SP \$ WAGES AND SALARY DK-50K
E3919	J16C.SP \$ WAGES AND SALARY DK-100K
E3920	J16D.SP \$ WAGES AND SALARY DK-5K
E3922	J17.SP PROF PRACTICE OR TRADE LCYEAR
E3923	J18.SP HOW MUCH PROF PRACTICE OR TRADE
E3924	J18A.SP \$ PROF PRAC OR TRADE DK-25K
E3925	J18B.SP \$ PROF PRAC OR TRADE DK-50K
E3926	J18C.SP \$ PROF PRAC OR TRADE DK-100K
E3927	J18D.SP \$ PROF PRAC OR TRADE DK-5K
E3929	J19.SP TIPS, BONUSES, COMMISSION LCYEAR
E3930	J19A.SP HOW MUCH TIPS, BONUSES, COMMISSI
E3931	J19B.SP TIPS BONUS COMM LC_YR DK-5K
E3932	J19C.SP TIPS BONUS COMM LC_YR DK-25K
E3933	J19D.SP TIPS BONUS COMM LC_YR DK-50K
E3934	J19E.SP TIPS BONUS COMM LC_YR DK-2.5K
E3935	J20.SP 2ND JOB RECEIVE OTHER INCOME
E3936	J20A.SP HOW MUCH OTHER INCOME
E3937	J20B.SP \$ OTHER INCOME DK-20K
E3938	J20C.SP \$ OTHER INCOME DK-50K
E3939	J20D.SP \$ OTHER INCOME DK-100K
E3940	J20E.SP \$ OTHER INCOME DK-5K
HRS 1998:	
F4642	J7.R WAGES AND SALARY LCYEAR
F4643	J8.R HOW MUCH WAGES AND SALARY
F4644	J8A.R DK-5K

F4645	J8A.R DK-25,000
F4646	J8B.R DK-50,000
F4647	J8C.R DK-100,000
F4648	J8B.R DK-25,000
F4649	J8D.R DK-5,000
F4651	J9.R PROF PRACTICE OR TRADE LCYEAR
F4652	J10.R HOW MUCH PROF PRACTICE OR TRADE
F4653	J10A.R DK-25,000
F4654	J10B.R DK-50,000
F4655	J10C.R DK-100,000
F4656	J10D.R DK-5,000
F4657	J11.R TIPS, BONUSSES, COMMISSION LCYEAR
F4658	J11A.R HOW MUCH TIPS, BONUSSES, COMMISSIO
F4659	J11B.R DK-5,000
F4660	J11C.R DK-25,000
F4661	J11D.R DK-50,000
F4662	J11E.R DK-2,500
F4663	J12.R 2ND JOB
F4664	J12A.HOW MUCH OTHER INCOME LCY
F4665	J12B.R DK-5,000
F4666	J12C.R DK-25,000
F4667	J12D.R DK-50,000
F4668	J12E.R DK-2,500
F4675	J15.SP WAGES AND SALARY LCYEAR
F4676	J16.SP HOW MUCH WAGES AND SALARY
F4677	J16A.SP DK-25,000
F4678	J16B.SP DK-50,000
F4679	J16C.SP DK-100,000
F4680	J16D.SP DK-5,000
F4682	J17.SP PROF PRACTICE OR TRADE LCYEAR
F4683	J18.SP HOW MUCH PROF PRACTICE OR TRADE
F4684	J18A.SP DK-25,000
F4685	J18B.SP DK-50,000
F4686	J18C.SP DK-100,000
F4687	J18D.SP DK-5,000
F4689	J19.SP TIPS, BONUSSES, COMMISSION LCYEAR
F4690	J19A.SP HOW MUCH TIPS, BONUSSES, COMMISSI
F4691	J19B.SP DK-5K
F4692	J19C.SP DK-25K
F4693	J19D.SP DK-50K
F4694	J19E.SP DK-2.5K
F4695	J20.SP 2ND JOB RECEIVE OTHER INCOME
F4696	J20A.SP HOW MUCH OTHER INCOME
F4697	J20B.SP DK-20K
F4698	J20C.SP DK-50K
F4699	J20D.SP DK-100K
F4700	J20E.SP DK-5K
HRS 2000:	
G5081	J7.R WAGES AND SALARY LCYEAR
G5082	J8.R HOW MUCH WAGES AND SALARY
G5083	J8A.R DK-5K
G5084	J8Y1A.R DK-25000
G5085	J8B.R DK-50000
G5086	J8C.R DK-100000
G5087	J8Y1B.R DK-25000
G5088	J8D.R DK-5000
G5090	J9.R PROF PRACTICE OR TRADE LCYEAR
G5091	J10.R HOW MUCH PROF PRACTICE OR TRADE
G5092	J10A.R DK-25000

G5093	J10B.R DK-50000
G5094	J10C.R DK-100000
G5095	J10D.R DK-5000
G5096	J11.R RCV TIPS/BONUSES/COMMISSION LCY
G5097	J11A.R AMT TIPS/BONUS/COMMISSION-LCY
G5098	J11B.R DK-5000
G5100	J11D.R DK-50000
G5101	J11E.R DK-2500
G5102	J12.R 2ND JOB
G5103	J12A.HOW MUCH OTHER INCOME LCY
G5104	J12B.R DK-5000
G5105	J12C.R DK-25000
G5106	J12D.R DK-50000
G5107	J12E.R DK-2500
G5114	J15.SP WAGES AND SALARY LCYEAR
G5115	J16.SP HOW MUCH WAGES AND SALARY
G5116	J16A.SP DK-25000
G5117	J16B.SP DK-50000
G5118	J16C.SP DK-100000
G5119	J16D.SP DK-5000
G5121	J17.SP PROF PRACTICE OR TRADE LCYEAR
G5122	J18.SP HOW MUCH PROF PRACTICE OR TRADE
G5123	J18A.SP DK-25000
G5124	J18B.SP DK-50000
G5125	J18C.SP DK-100000
G5126	J18D.SP DK-5000
G5128	J19.SP RCV TIPS/BONUS/COMMISSION LCY
G5129	J19A.SP AMT TIPS/BONUS/COMMISSION LCY
G5130	J19B.SP DK-5K
G5131	J19C.SP DK-25K
G5132	J19D.SP DK-50K
G5133	J19E.SP DK-2500
G5134	J20.SP 2ND JOB RECEIVE OTHER INCOME
G5135	J20A.SP HOW MUCH OTHER INCOME
G5136	J20B.SP DK-5K
G5137	J20C.SP DK-25K
G5138	J20D.SP DK-50K
G5139	J20E.SP DK-2500
HRS 2002:	
HQ019	R WAGES AND SALARY INCOME - LCY
HQ020	R AMOUNT FROM WAGES AND SALARY LCY
HQ021	R AMT FROM WAGES AND SALARY - MIN
HQ022	R AMT FROM WAGES AND SALARY - MAX
HQ023	R AMT FROM WAGES AND SALARY - RESULT
HQ024	R INCOME FROM PROF PRAC OR TRADE - LCY
HQ025	R AMOUNT FROM PROF PRAC OR TRADE LCY
HQ026	R AMT FROM PROF PRAC OR TRADE - MIN
HQ027	R AMT FROM PROF PRAC OR TRADE - MAX
HQ028	R AMT FROM PROF PRAC OR TRADE - RESULT
HQ029	R INCOME FROM TIP BONUS COMMISSION - LCY
HQ030	R AMOUNT FROM TIP BONUS COMMISSION LCY
HQ031	R AMT FR TIP BONUS COMMISSION - MIN
HQ032	R AMT FR TIP BONUS COMMISSION - MAX
HQ033	R AMT FR TIP BONUS COMMISSION - RESULT
HQ034	R OTHER INCOME FROM WORK 2ND JOB - LCY
HQ035	R AMOUNT FROM WORK 2ND JOB LCY
HQ036	R AMT FROM WORK 2ND JOB - MIN
HQ037	R AMT FROM WORK 2ND JOB - MAX
HQ038	R AMT FROM WORK 2ND JOB - RESULT

HQ044 SP WAGES AND SALARY INCOME - LCY  
 HQ045 SP AMOUNT FROM WAGES AND SALARY LCY  
 HQ046 SP AMT FROM WAGES AND SALARY - MIN  
 HQ047 SP AMT FROM WAGES AND SALARY - MAX  
 HQ048 SP AMT FROM WAGES AND SALARY - RESULT  
 HQ049 SP INCOME FROM PROF PRAC TRADE - LCY  
 HQ050 SP AMOUNT FROM PROF PRAC TRADE LCY  
 HQ051 SP AMT FROM PROF PRAC TRADE - MIN  
 HQ052 SP AMT FROM PROF PRAC TRADE - MAX  
 HQ053 SP AMT FROM PROF PRAC TRADE - RESULT  
 HQ054 SP INCOME FROM TIP BONUS COMMISS - LCY  
 HQ055 SP AMOUNT FR TIP BONUS COMMISS LCY  
 HQ056 SP AMT FR TIP BONUS COMMISS - MIN  
 HQ057 SP AMT FR TIP BONUS COMMISS - MAX  
 HQ058 SP AMT FR TIP BONUS COMMISS - RESULT  
 HQ059 SP OTHER INC FROM WORK 2ND JOB - LCY  
 HQ060 SP AMOUNT FROM WORK 2ND JOB LCY  
 HQ061 SP AMT FROM WORK 2ND JOB - MIN  
 HQ062 SP AMT FROM WORK 2ND JOB - MAX  
 HQ063 SP AMT FROM WORK 2ND JOB - RESULT  
 HRS 2004:  
 JQ019 R WAGES AND SALARY INCOME - LCY  
 JQ020 R AMOUNT FROM WAGES AND SALARY LCY  
 JQ021 R AMT FROM WAGES AND SALARY - MIN  
 JQ022 R AMT FROM WAGES AND SALARY - MAX  
 JQ023 R AMT FROM WAGES AND SALARY - RESULT  
 JQ024 R INCOME FROM PROF PRAC OR TRADE - LCY  
 JQ025 R AMOUNT FROM PROF PRAC OR TRADE LCY  
 JQ026 R AMT FROM PROF PRAC OR TRADE - MIN  
 JQ027 R AMT FROM PROF PRAC OR TRADE - MAX  
 JQ028 R AMT FROM PROF PRAC OR TRADE - RESULT  
 JQ029 R INCOME FROM TIP BONUS COMMISSION - LCY  
 JQ030 R AMOUNT FROM TIP BONUS COMMISSION LCY  
 JQ031 R AMT FR TIP BONUS COMMISSION - MIN  
 JQ032 R AMT FR TIP BONUS COMMISSION - MAX  
 JQ033 R AMT FR TIP BONUS COMMISSION - RESULT  
 JQ034 R OTHER INCOME FROM WORK 2ND JOB - LCY  
 JQ035 R AMOUNT FROM WORK 2ND JOB LCY  
 JQ036 R AMT FROM WORK 2ND JOB - MIN  
 JQ037 R AMT FROM WORK 2ND JOB - MAX  
 JQ038 R AMT FROM WORK 2ND JOB - RESULT  
 JQ044 SP WAGES AND SALARY INCOME - LCY  
 JQ045 SP AMOUNT FROM WAGES AND SALARY LCY  
 JQ046 SP AMT FROM WAGES AND SALARY - MIN  
 JQ047 SP AMT FROM WAGES AND SALARY - MAX  
 JQ048 SP AMT FROM WAGES AND SALARY - RESULT  
 JQ049 SP INCOME FROM PROF PRAC TRADE - LCY  
 JQ050 SP AMOUNT FROM PROF PRAC TRADE LCY  
 JQ051 SP AMT FROM PROF PRAC TRADE - MIN  
 JQ052 SP AMT FROM PROF PRAC TRADE - MAX  
 JQ053 SP AMT FROM PROF PRAC TRADE - RESULT  
 JQ054 SP INCOME FROM TIP BONUS COMMISS - LCY  
 JQ055 SP AMOUNT FR TIP BONUS COMMISS LCY  
 JQ056 SP AMT FR TIP BONUS COMMISS - MIN  
 JQ057 SP AMT FR TIP BONUS COMMISS - MAX  
 JQ058 SP AMT FR TIP BONUS COMMISS - RESULT  
 JQ059 SP OTHER INC FROM WORK 2ND JOB - LCY  
 JQ060 SP AMOUNT FROM WORK 2ND JOB LCY  
 JQ061 SP AMT FROM WORK 2ND JOB - MIN

JQ062 SP AMT FROM WORK 2ND JOB - MAX  
 JQ063 SP AMT FROM WORK 2ND JOB - RESULT  
 HRS 2006:  
 KQ019 R WAGES AND SALARY INCOME - LCY  
 KQ020 R AMOUNT FROM WAGES AND SALARY LCY  
 KQ021 R AMT FROM WAGES AND SALARY - MIN  
 KQ022 R AMT FROM WAGES AND SALARY - MAX  
 KQ023 R AMT FROM WAGES AND SALARY - RESULT  
 KQ024 R INCOME FROM PROF PRAC OR TRADE - LCY  
 KQ025 R AMOUNT FROM PROF PRAC OR TRADE LCY  
 KQ026 R AMT FROM PROF PRAC OR TRADE - MIN  
 KQ027 R AMT FROM PROF PRAC OR TRADE - MAX  
 KQ028 R AMT FROM PROF PRAC OR TRADE - RESULT  
 KQ029 R INCOME FROM TIP BONUS COMMISSION - LCY  
 KQ030 R AMOUNT FROM TIP BONUS COMMISSION LCY  
 KQ031 R AMT FR TIP BONUS COMMISSION - MIN  
 KQ032 R AMT FR TIP BONUS COMMISSION - MAX  
 KQ033 R AMT FR TIP BONUS COMMISSION - RESULT  
 KQ034 R OTHER INCOME FROM WORK 2ND JOB - LCY  
 KQ035 R AMOUNT FROM WORK 2ND JOB LCY  
 KQ036 R AMT FROM WORK 2ND JOB - MIN  
 KQ037 R AMT FROM WORK 2ND JOB - MAX  
 KQ038 R AMT FROM WORK 2ND JOB - RESULT  
 KQ044 SP WAGES AND SALARY INCOME - LCY  
 KQ045 SP AMOUNT FROM WAGES AND SALARY LCY  
 KQ046 SP AMT FROM WAGES AND SALARY - MIN  
 KQ047 SP AMT FROM WAGES AND SALARY - MAX  
 KQ048 SP AMT FROM WAGES AND SALARY - RESULT  
 KQ049 SP INCOME FROM PROF PRAC TRADE - LCY  
 KQ050 SP AMOUNT FROM PROF PRAC TRADE LCY  
 KQ051 SP AMT FROM PROF PRAC TRADE - MIN  
 KQ052 SP AMT FROM PROF PRAC TRADE - MAX  
 KQ053 SP AMT FROM PROF PRAC TRADE - RESULT  
 KQ054 SP INCOME FROM TIP BONUS COMMISS - LCY  
 KQ055 SP AMOUNT FR TIP BONUS COMMISS LCY  
 KQ056 SP AMT FR TIP BONUS COMMISS - MIN  
 KQ057 SP AMT FR TIP BONUS COMMISS - MAX  
 KQ058 SP AMT FR TIP BONUS COMMISS - RESULT  
 KQ059 SP OTHER INC FROM WORK 2ND JOB - LCY  
 KQ060 SP AMOUNT FROM WORK 2ND JOB LCY  
 KQ061 SP AMT FROM WORK 2ND JOB - MIN  
 KQ062 SP AMT FROM WORK 2ND JOB - MAX  
 KQ063 SP AMT FROM WORK 2ND JOB - RESULT  
 HRS 2008:  
 LQ019 R WAGES AND SALARY INCOME - LCY  
 LQ020 R AMOUNT FROM WAGES AND SALARY LCY  
 LQ021 R AMT FROM WAGES AND SALARY - MIN  
 LQ022 R AMT FROM WAGES AND SALARY - MAX  
 LQ023 R AMT FROM WAGES AND SALARY - RESULT  
 LQ024 R INCOME FROM PROF PRAC OR TRADE - LCY  
 LQ025 R AMOUNT FROM PROF PRAC OR TRADE LCY  
 LQ026 R AMT FROM PROF PRAC OR TRADE - MIN  
 LQ027 R AMT FROM PROF PRAC OR TRADE - MAX  
 LQ028 R AMT FROM PROF PRAC OR TRADE - RESULT  
 LQ029 R INCOME FROM TIP BONUS COMMISSION - LCY  
 LQ030 R AMOUNT FROM TIP BONUS COMMISSION LCY  
 LQ031 R AMT FR TIP BONUS COMMISSION - MIN  
 LQ032 R AMT FR TIP BONUS COMMISSION - MAX  
 LQ033 R AMT FR TIP BONUS COMMISSION - RESULT



LQ034	R OTHER INCOME FROM WORK 2ND JOB - LCY
LQ035	R AMOUNT FROM WORK 2ND JOB LCY
LQ036	R AMT FROM WORK 2ND JOB - MIN
LQ037	R AMT FROM WORK 2ND JOB - MAX
LQ038	R AMT FROM WORK 2ND JOB - RESULT
LQ044	SP WAGES AND SALARY INCOME - LCY
LQ045	SP AMOUNT FROM WAGES AND SALARY LCY
LQ046	SP AMT FROM WAGES AND SALARY - MIN
LQ047	SP AMT FROM WAGES AND SALARY - MAX
LQ048	SP AMT FROM WAGES AND SALARY - RESULT
LQ049	SP INCOME FROM PROF PRAC TRADE - LCY
LQ050	SP AMOUNT FROM PROF PRAC TRADE LCY
LQ051	SP AMT FROM PROF PRAC TRADE - MIN
LQ052	SP AMT FROM PROF PRAC TRADE - MAX
LQ053	SP AMT FROM PROF PRAC TRADE - RESULT
LQ054	SP INCOME FROM TIP BONUS COMMISS - LCY
LQ055	SP AMOUNT FR TIP BONUS COMMISS LCY
LQ056	SP AMT FR TIP BONUS COMMISS - MIN
LQ057	SP AMT FR TIP BONUS COMMISS - MAX
LQ058	SP AMT FR TIP BONUS COMMISS - RESULT
LQ059	SP OTHER INC FROM WORK 2ND JOB - LCY
LQ060	SP AMOUNT FROM WORK 2ND JOB LCY
LQ061	SP AMT FROM WORK 2ND JOB - MIN
LQ062	SP AMT FROM WORK 2ND JOB - MAX
LQ063	SP AMT FROM WORK 2ND JOB - RESULT
HRS 2010:	
MQ019	R WAGES AND SALARY INCOME - LCY
MQ020	R AMOUNT FROM WAGES AND SALARY LCY
MQ021	R AMT FROM WAGES AND SALARY - MIN
MQ022	R AMT FROM WAGES AND SALARY - MAX
MQ023	R AMT FROM WAGES AND SALARY - RESULT
MQ024	R INCOME FROM PROF PRAC OR TRADE - LCY
MQ025	R AMOUNT FROM PROF PRAC OR TRADE LCY
MQ026	R AMT FROM PROF PRAC OR TRADE - MIN
MQ027	R AMT FROM PROF PRAC OR TRADE - MAX
MQ028	R AMT FROM PROF PRAC OR TRADE - RESULT
MQ029	R INCOME FROM TIP BONUS COMMISSION - LCY
MQ030	R AMOUNT FROM TIP BONUS COMMISSION LCY
MQ031	R AMT FR TIP BONUS COMMISSION - MIN
MQ032	R AMT FR TIP BONUS COMMISSION - MAX
MQ033	R AMT FR TIP BONUS COMMISSION - RESULT
MQ034	R OTHER INCOME FROM WORK 2ND JOB - LCY
MQ035	R AMOUNT FROM WORK 2ND JOB LCY
MQ036	R AMT FROM WORK 2ND JOB - MIN
MQ037	R AMT FROM WORK 2ND JOB - MAX
MQ038	R AMT FROM WORK 2ND JOB - RESULT
MQ044	SP WAGES AND SALARY INCOME - LCY
MQ045	SP AMOUNT FROM WAGES AND SALARY LCY
MQ046	SP AMT FROM WAGES AND SALARY - MIN
MQ047	SP AMT FROM WAGES AND SALARY - MAX
MQ048	SP AMT FROM WAGES AND SALARY - RESULT
MQ049	SP INCOME FROM PROF PRAC TRADE - LCY
MQ050	SP AMOUNT FROM PROF PRAC TRADE LCY
MQ051	SP AMT FROM PROF PRAC TRADE - MIN
MQ052	SP AMT FROM PROF PRAC TRADE - MAX
MQ053	SP AMT FROM PROF PRAC TRADE - RESULT
MQ054	SP INCOME FROM TIP BONUS COMMISS - LCY
MQ055	SP AMOUNT FR TIP BONUS COMMISS LCY
MQ056	SP AMT FR TIP BONUS COMMISS - MIN

MQ057	SP AMT FR TIP BONUS COMMISS - MAX
MQ058	SP AMT FR TIP BONUS COMMISS - RESULT
MQ059	SP OTHER INC FROM WORK 2ND JOB - LCY
MQ060	SP AMOUNT FROM WORK 2ND JOB LCY
MQ061	SP AMT FROM WORK 2ND JOB - MIN
MQ062	SP AMT FROM WORK 2ND JOB - MAX
MQ063	SP AMT FROM WORK 2ND JOB - RESULT
HRS 2012:	
NQ019	R WAGES AND SALARY INCOME - LCY
NQ020	R AMOUNT FROM WAGES AND SALARY LCY
NQ021	R AMT FROM WAGES AND SALARY - MIN
NQ022	R AMT FROM WAGES AND SALARY - MAX
NQ023	R AMT FROM WAGES AND SALARY - RESULT
NQ024	R INCOME FROM PROF PRAC OR TRADE - LCY
NQ025	R AMOUNT FROM PROF PRAC OR TRADE LCY
NQ026	R AMT FROM PROF PRAC OR TRADE - MIN
NQ027	R AMT FROM PROF PRAC OR TRADE - MAX
NQ028	R AMT FROM PROF PRAC OR TRADE - RESULT
NQ029	R INCOME FROM TIP BONUS COMMISSION - LCY
NQ030	R AMOUNT FROM TIP BONUS COMMISSION LCY
NQ031	R AMT FR TIP BONUS COMMISSION - MIN
NQ032	R AMT FR TIP BONUS COMMISSION - MAX
NQ033	R AMT FR TIP BONUS COMMISSION - RESULT
NQ034	R OTHER INCOME FROM WORK 2ND JOB - LCY
NQ035	R AMOUNT FROM WORK 2ND JOB LCY
NQ036	R AMT FROM WORK 2ND JOB - MIN
NQ037	R AMT FROM WORK 2ND JOB - MAX
NQ038	R AMT FROM WORK 2ND JOB - RESULT
NQ044	SP WAGES AND SALARY INCOME - LCY
NQ045	SP AMOUNT FROM WAGES AND SALARY LCY
NQ046	SP AMT FROM WAGES AND SALARY - MIN
NQ047	SP AMT FROM WAGES AND SALARY - MAX
NQ048	SP AMT FROM WAGES AND SALARY - RESULT
NQ049	SP INCOME FROM PROF PRAC TRADE - LCY
NQ050	SP AMOUNT FROM PROF PRAC TRADE LCY
NQ051	SP AMT FROM PROF PRAC TRADE - MIN
NQ052	SP AMT FROM PROF PRAC TRADE - MAX
NQ053	SP AMT FROM PROF PRAC TRADE - RESULT
NQ054	SP INCOME FROM TIP BONUS COMMISS - LCY
NQ055	SP AMOUNT FR TIP BONUS COMMISS LCY
NQ056	SP AMT FR TIP BONUS COMMISS - MIN
NQ057	SP AMT FR TIP BONUS COMMISS - MAX
NQ058	SP AMT FR TIP BONUS COMMISS - RESULT
NQ059	SP OTHER INC FROM WORK 2ND JOB - LCY
NQ060	SP AMOUNT FROM WORK 2ND JOB LCY
NQ061	SP AMT FROM WORK 2ND JOB - MIN
NQ062	SP AMT FROM WORK 2ND JOB - MAX
NQ063	SP AMT FROM WORK 2ND JOB - RESULT
HRS 2014:	
OQ019	R WAGES AND SALARY INCOME - LCY
OQ020	R AMOUNT FROM WAGES AND SALARY LCY
OQ021	R AMT FROM WAGES AND SALARY - MIN
OQ022	R AMT FROM WAGES AND SALARY - MAX
OQ023	R AMT FROM WAGES AND SALARY - RESULT
OQ024	R INCOME FROM PROF PRAC OR TRADE - LCY
OQ025	R AMOUNT FROM PROF PRAC OR TRADE LCY
OQ026	R AMT FROM PROF PRAC OR TRADE - MIN
OQ027	R AMT FROM PROF PRAC OR TRADE - MAX
OQ028	R AMT FROM PROF PRAC OR TRADE - RESULT

OQ029	R INCOME FROM TIP BONUS COMMISSION - LCY
OQ030	R AMOUNT FROM TIP BONUS COMMISSION LCY
OQ031	R AMT FR TIP BONUS COMMISSION - MIN
OQ032	R AMT FR TIP BONUS COMMISSION - MAX
OQ033	R AMT FR TIP BONUS COMMISSION - RESULT
OQ034	R OTHER INCOME FROM WORK 2ND JOB - LCY
OQ035	R AMOUNT FROM WORK 2ND JOB LCY
OQ036	R AMT FROM WORK 2ND JOB - MIN
OQ037	R AMT FROM WORK 2ND JOB - MAX
OQ038	R AMT FROM WORK 2ND JOB - RESULT
OQ044	SP WAGES AND SALARY INCOME - LCY
OQ045	SP AMOUNT FROM WAGES AND SALARY LCY
OQ046	SP AMT FROM WAGES AND SALARY - MIN
OQ047	SP AMT FROM WAGES AND SALARY - MAX
OQ048	SP AMT FROM WAGES AND SALARY - RESULT
OQ049	SP INCOME FROM PROF PRAC TRADE - LCY
OQ050	SP AMOUNT FROM PROF PRAC TRADE LCY
OQ051	SP AMT FROM PROF PRAC TRADE - MIN
OQ052	SP AMT FROM PROF PRAC TRADE - MAX
OQ053	SP AMT FROM PROF PRAC TRADE - RESULT
OQ054	SP INCOME FROM TIP BONUS COMMISS - LCY
OQ055	SP AMOUNT FR TIP BONUS COMMISS LCY
OQ056	SP AMT FR TIP BONUS COMMISS - MIN
OQ057	SP AMT FR TIP BONUS COMMISS - MAX
OQ058	SP AMT FR TIP BONUS COMMISS - RESULT
OQ059	SP OTHER INC FROM WORK 2ND JOB - LCY
OQ060	SP AMOUNT FROM WORK 2ND JOB LCY
OQ061	SP AMT FROM WORK 2ND JOB - MIN
OQ062	SP AMT FROM WORK 2ND JOB - MAX
OQ063	SP AMT FROM WORK 2ND JOB - RESULT

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

### Household Capital Income

Wave	Variable	Label	Type
1	H1ICAP	H1ICAP:W1 Income:Household Capital Income	Cont
2	H2ICAP	H2ICAP:W2 Income:Household Capital Income	Cont
3	H3ICAP	H3ICAP:W3 Income:Household Capital Income	Cont
4	H4ICAP	H4ICAP:W4 Income:Household Capital Income	Cont
5	H5ICAP	H5ICAP:W5 Income:Household Capital Income	Cont
6	H6ICAP	H6ICAP:W6 Income:Household Capital Income	Cont
7	H7ICAP	H7ICAP:W7 Income:Household Capital Income	Cont
8	H8ICAP	H8ICAP:W8 Income:Household Capital Income	Cont
9	H9ICAP	H9ICAP:W9 Income:Household Capital Income	Cont
10	H10ICAP	H10ICAP:W10 Income:Household Capital Income	Cont
11	H11ICAP	H11ICAP:W11 Income:Household Capital Income	Cont
12	H12ICAP	H12ICAP:W12 Income:Household Capital Income	Cont
1	H1IFCAP	H1IFCAP:W1 ImpFlag:Household Capital Inc	Categ
2	H2IFCAP	H2IFCAP:W2 ImpFlag:Household Capital Inc	Categ
3	H3IFCAP	H3IFCAP:W3 ImpFlag:Household Capital Inc	Categ
4	H4IFCAP	H4IFCAP:W4 ImpFlag:Household Capital Inc	Categ
5	H5IFCAP	H5IFCAP:W5 ImpFlag:Household Capital Inc	Categ
6	H6IFCAP	H6IFCAP:W6 ImpFlag:Household Capital Inc	Categ
7	H7IFCAP	H7IFCAP:W7 ImpFlag:Household Capital Inc	Categ
8	H8IFCAP	H8IFCAP:W8 ImpFlag:Household Capital Inc	Categ
9	H9IFCAP	H9IFCAP:W9 ImpFlag:Household Capital Inc	Categ
10	H10IFCAP	H10IFCAP:W10 ImpFlag:Household Capital Inc	Categ
11	H11IFCAP	H11IFCAP:W11 ImpFlag:Household Capital Inc	Categ
12	H12IFCAP	H12IFCAP:W12 ImpFlag:Household Capital Inc	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ICAP	12652	5275.06	20937.67	0.0	515500.0
H2ICAP	19642	8274.21	43794.50	0.0	3216257.7
H3ICAP	17991	13916.09	56975.18	0.0	2939734.1
H4ICAP	21384	13840.28	90199.49	0.0	7797767.0
H5ICAP	19579	14506.24	57961.34	0.0	3365000.0
H6ICAP	18165	13083.95	73784.88	0.0	7331885.0
H7ICAP	20129	13984.22	65362.95	0.0	3540242.0
H8ICAP	18469	18660.33	281804.12	0.0	25360300.0
H9ICAP	17217	17229.20	87184.46	0.0	3884996.5
H10ICAP	22034	12722.04	62633.69	0.0	3001280.0
H11ICAP	20554	14043.89	85326.14	0.0	4494571.7
H12ICAP	18747	14934.28	109515.17	0.0	9340048.0
H1IFCAP	12652	0.68	1.03	0.0	9.0
H2IFCAP	19642	0.73	1.02	0.0	9.0
H3IFCAP	17991	1.22	1.05	0.0	9.0
H4IFCAP	21384	1.25	1.13	0.0	9.0
H5IFCAP	19579	1.22	1.06	0.0	9.0
H6IFCAP	18165	1.20	0.94	0.0	9.0
H7IFCAP	20129	1.13	1.00	0.0	9.0
H8IFCAP	18469	1.12	0.97	0.0	9.0
H9IFCAP	17217	1.08	1.00	0.0	9.0
H10IFCAP	22034	1.03	1.37	0.0	9.0
H11IFCAP	20554	0.88	1.10	0.0	9.0
H12IFCAP	18747	0.90	1.16	0.0	9.0

## Categorical Variable Codes

Value	H1IFCAP	H2IFCAP	H3IFCAP	H4IFCAP	H5IFCAP	H6IFCAP	H7IFCAP
0.No income	6715	9829	4894	5841	5581	5382	6373
1.No imputations	3995	6223	5183	5853	5094	4057	5401
2.Some imputation	1847	3456	7788	9483	8767	8681	8266
9.No Fin Resp	95	134	126	207	137	45	89

Value	H8IFCAP	H9IFCAP	H10IFCAP	H11IFCAP	H12IFCAP
0.No income	5986	5774	8585	9019	8034
1.No imputations	4796	4738	7142	6143	5941
2.Some imputation	7622	6630	5889	5221	4573
9.No Fin Resp	65	75	418	171	199

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

HwICAP is the sum of household business or farm income, self-employment earnings, business income, gross rent, dividend and interest income, trust funds or royalties, and other asset income. In Waves 1 and 2H, gross rent is calculated from net rent minus rental expenses. HwIFCAP is a flag that indicates whether any components are imputed.

The components vary across waves because the survey questions ask about different components. From Wave 3-6,

the components are the same, as is the case from Wave 7 forward. The components summed in each wave are:

H1ICAP sums income from business, rental, dividend and interest, and trust fund or royalties.

H2ICAP sums income from IRAs; stocks, bonds and other dividends; rental property; savings, CDs and other interest income; investment trusts; and other investment income.

H3ICAP sums income from self-employment, business, rental, stocks and mutual funds, bonds, CDs and treasury bills, checking and savings accounts, other assets, and trust fund or royalties.

H7ICAP contains the same components as those described for H3ICAP, the only difference being that income from trust funds or royalties was not asked about from Wave 7 forward.

For income from business, there is a question beginning in Wave 3H that asks whether this income was reported earlier in the interview. If yes, the amount from business income is still imputed (or kept if an amount is present) but is NOT included in HwICAP, as it is assumed to be double-reported, usually as self-employment income. It is important to note that this improvement is currently available from Wave 7 forward, and will be applied in future data releases to Wave 3H - Wave 6, where roughly 3.6% - 4.4% of households already reported business income earlier in the interview, depending on the wave.

The individual components: HwIBUSIN, HwIRNTIN, HwITRSIN, HwIDIVIN, HwIBNDIN, HwISTK, HwICHKIN, HwISAV, HwICDIN, RwiIRA, HwiOTHix and RwiSEMP and their imputation flags are available in the RAND HRS Detailed Imputations File.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in Wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, H2IFBUSIN, H2IFSFEMP, H2IFRNTIN, H2IFRNTEX, H2IFDIVIN, and H2IFTRSIN are set to .Q to indicate that the corresponding income components are not available in Wave 2A. For HRS entry cohort Respondents, R2IFIRA1, S2IFIRA1, R2IFIRA2, S2IFIRA2, R2IFSTK1, S2IFSTK1, R2IFSTK2, S2IFSTK2, R2IFSTK3, S2IFSTK3, H2IFSAV1, H2IFSAV2, H2IFSTK1, H2IFSTK2, H2IFRNT1, H2IFRNT2, H2IFTRS1, H2IFTRS2, H2IFOTH14, and H2IFOTH15 are set to .Q to indicate that the corresponding income components are not available in Wave 2H.

### **Cross Wave Differences in Original HRS Data**

The components of household capital income vary across waves.

Income from self-employment is not asked in Waves 1 and 2A but is added in Wave 2H. In Wave 2H, if the Financial Respondent reported s/he (Respondent only) was self-employed in the last wave, then s/he is asked how much s/he received in 1993. Then the Financial Respondent is asked if s/he or her/his spouse has received any other income privately-held businesses, farms, professional practices, or partnerships owned or shared by the Respondent and spouse. As a result, if the spouse was self-employed last wave or if the Respondent is newly self-employed, s/he will skip the first question and so her/his self-employment income will be bundled with the business income.

From Wave 3 forward, self-employment income is reported for the Respondent and spouse separately. In Waves 1 and 2H, one question asks about total interest and dividend income. Beginning in Wave 3, the survey adds separate questions about interest from bonds, CDs or treasury bills, and checking, savings, or money market accounts. Also added in Wave 3 are questions about income from other assets.

Most income from assets from Wave 3 forward ask for an amount, how often received, and whether it is the same amount each period. If the same amount is not received each period, then the total amount received last calendar year is

asked. If the same amount is received each period, then the amount is multiplied appropriately for the period to arrive at the total per year. Beginning in Wave 3, questions ask the income from assets immediately following questions on whether the asset is owned. If no asset is owned, then income from the asset is assumed to be zero. In Waves 1 and 2, income from assets questions are asked in a completely different section of the interview.

From Wave 2H forward, with the exception of trust fund income, if the Respondent refuses or does not know the value of an income component a series of unfolding bracket questions are asked. The bracket amounts for income from business, rent, and dividends or interest change from Wave 2H to 3. The entry points for some components vary across waves. In Waves 1 and 2A, no unfolding bracket questions are asked.

The income questions in Wave 2A are very different from other waves. Most distinctive are the "regular income" for Respondent and spouse and "other household income." After standard questions about Social Security income, SSI and food stamps, other income is asked about in a general way. If other income is present, Respondents are asked to specify the source of income. In other waves, most income types are asked specifically (e.g., Do you receive income from stocks?).

In Wave 2A, Financial Respondents are asked the following questions about their own income and then are asked about their spouse's income:

a) "Do you receive any (other) regular income payments; for example, from retirement pensions, Veterans Benefits, annuities, payments from an IRA account, or anything like that?"

b) "Please think about the largest (other) regular income you receive. What type of income is that?"

[IWER: PROBE WITH CATEGORIES ONLY IF R NEEDS HELP]

1.VETERANS BENEFITS

2.RETIREMENT OR OTHER PENSIONS

3.ANNUITY

4.IRA DISTRIBUTION

5.STOCKS AND BONDS

7.OTHER

8.DK

9.RF

This set of questions is repeated twice so that Respondents can report up to 3 current other regular incomes. Then they are asked:

a) "Did you receive any other regular income in [last calendar year] that you no longer receive?"

b) "What type of income was that?"

(Same categories as above)

So there are a total of 4 other regular incomes that can be reported. Categories may be specified more than once, and there are up to 3 different instances of an income like pensions or stocks. Besides pensions and annuities, other waves allow only one reported amount for most income categories, so that a Respondent would give a total of all dividend income received.

Financial Respondents are then asked the following questions about their household income:

a) "(Aside from anything you have already told me about,) Do you (or your (husband/wife/partner)) receive any income from financial investments like savings accounts, CDs, stocks and bonds, rental property, or investment trusts?"

b) "What do you receive the largest income from?"

[IWER: PROBE WITH CATEGORIES ONLY IF R NEEDS HELP]

1.SAVINGS ACCOUNTS/CDs/INTEREST

2.STOCKS OR BONDS/DIVIDENDS

3.RENTAL PROPERTY

4.INVESTMENT TRUSTS

5.RELATIVE

7.OTHER

8.DK

9.RF

This set of questions is repeated once so that Respondents can report up to 2 current household investment incomes. Then they are asked:

a) "Did you (or your (husband/wife/partner)) receive any income from savings or investments in [last calendar year] that you no longer receive?"

b) "What did you receive that income from?"

So there are a total of 3 household investment incomes that can be reported. Categories may be specified more than once, and there are up to 2 different instances of an income like savings.

If income is received, subsequent questions serve to identify the date of receipt (was income received in last calendar year?) and amount received. There are no unfolding brackets for income in Wave 2A.

Resulting Wave 2A Household Capital Income components:

Respondent/Spouse or Partner (R/S)

IRA1-2



STK1-3

Household (H)

SAV1-2

STK1-2

RNT1-2

TRS1-2

OTHI4-5

In Wave 6, the introductory question wording for real estate ownership differs from previous waves. Up until Wave 6, the question reads:

"Do you (or your husband/or your wife/or your partner/...) have any real estate (other than your main home or second home), such as land, rental real estate, a partnership, or money owed to you on a land contract or mortgage?"

The new question wording is as follows:

"Do you and (your (husband/wife/partner)) have any real estate (other than your main home or second home/other than your main home/other than your second home,) such as land, rental real estate, or money owed to you on a land contract or mortgage? Please do not include business or farm real estate."

From Wave 7 forward, income from trust funds or royalties was not asked about. Therefore, this type of income is not included amongst the components that are used to derive household capital income.

For AHEAD Respondents in Wave 2A, the income components corresponding to imputation flags H2IFBUSIN, H2IFSFEMP, H2IFRNTIN, H2IFRNTEX, H2IFDIVIN, and H2IFTRSIN are not available.

For HRS Respondents in Wave 2H, the income components corresponding to imputation flags R2IFIRA1, S2IFIRA1, R2IFIRA2, S2IFIRA2, R2IFSTK1, S2IFSTK1, R2IFSTK2, S2IFSTK2, R2IFSTK3, S2IFSTK3, H2IFSAV1, H2IFSAV2, H2IFSTK1, H2IFSTK2, H2IFRNT1, H2IFRNT2, H2IFTRS1, H2IFTRS2, H2IFOTHI4, and H2IFOTHI5 are not available.

## HRS Variables Used

HRS 1992:

V15904	N38A:OTHR INCME:FARM:IND
V15905	N39A:OTHR INC AMT :IND
V15906	N38B:OTHR INCME:RENT:IND
V15907	N39B:OTHR INCME AMT :IND
V15908	N40B:OTHER INCME NET:IND
V15909	N40B:OTHR INCME EXP :IND
V15910	N38C:OTHR INCME:INTE:IND
V15911	N39C:OTHR INCME AMT :IND
V15912	N38D:OTHR INCME:TRST:IND
V15913	N39D:OTHR INCME AMT :IND
V5904	N38A:OTHR INCME:FARM:IMP
V5905	N39A:OTHR INCME: AM:IMP
V5906	N38B:OTHR INCME:RENT:IMP

V5907	N39B:OTHR INCME: AM:IMP
V5908	N40B:OTHR INCME:NET :IMP
V5909	N40Bb:OTHR INCM: EX:IMP
V5910	N38C:OTHR INCME:INTE:IMP
V5911	N39C:OTHR INCME: AM:IMP
V5912	N38D:OTHR INCME:TRST:IMP
V5913	N39D:OTHR INCME: AM:IMP
AHEAD 1993:	
B1456	J19. R REG INC: RECEIVE ANY
B1457	J20-1. R REG INC: TYPE-1
B1458	J21-1. R REG INC: PAID PER MONTH-1
B1459	J21b-1. R REG INC: \$ PERIOD-1
B1460	J21c-1. R REG INC: \$ LAST PERIOD-1
B1462	J21e-1. R REG INC: START >2YRS AGO-1
B1463	J21f-1. R REG INC: START MONTH-1
B1473	J26-1. R REG INC: ANY OTHER-1
B1475	J20-2. R REG INC: TYPE-2
B1476	J21-2. R REG INC: PAID PER MONTH-2
B1477	J21b-2. R REG INC: \$ PERIOD-2
B1478	J21c-2. R REG INC: \$ LAST PERIOD-2
B1479	J21d-2. R REG INC: FED INC TAXED-2
B1480	J21e-2. R REG INC: START >2YRS AGO-2
B1481	J21f-2. R REG INC: START MONTH-2
B1482	J21g-2. R REG INC: START YEAR-2
B1491	J26-2. R REG INC: ANY OTHER-2
B1492	J20-3. R REG INC: TYPE-3
B1493	J21-3. R REG INC: PAID PER MONTH-3
B1494	J21b-3. R REG INC: \$ PERIOD-3
B1495	J21c-3. R REG INC: \$ LAST PERIOD-3
B1496	J21d-3. R REG INC: FED INC TAXED-3
B1497	J21e-3. R REG INC: START >2YRS AGO-3
B1498	J21f-3. R REG INC: START MONTH-3
B1499	J21g-3. R REG INC: START YEAR-3
B1508	J27. R REG INC: ANY END 1992/3
B1509	J27a. R REG INC END1992/3: TYPE
B1510	J28. R REG INC END 1992/3: PAID PER MO
B1511	J28a. R REG INC END 1992/3: \$ PERIOD
B1512	J28b. R REG INC END1992/3: \$ LAST PERIOD
B1513	J28c. R REG INC END92/3: LAST MO RECD
B1514	J28d. R REG INC END92/3: LAST YR RECD
B1515	J29. SP REG INC: RECEIVE ANY
B1517	J30-1. SP REG INC: TYPE-1
B1518	J31-1. SP REG INC: PAID PER MONTH-1
B1519	J31b-1. SP REG INC: \$ PERIOD-1
B1520	J31c-1. SP REG INC: \$ LAST PERIOD-1
B1521	J31d-1. SP REG INC: FED INC TAXED-1
B1522	J31e-1. SP REG INC: START >2YRS AGO-1
B1523	J31f-1. SP REG INC: START MONTH-1
B1524	J31g-1. SP REG INC: START YEAR-1
B1533	J36-1. SP REG INC: ANY OTHER-1
B1539	J30-2. SP REG INC: TYPE-2
B1540	J31-2. SP REG INC: PAID PER MONTH-2
B1541	J31b-2. SP REG INC: \$ PERIOD-2
B1542	J31c-2. SP REG INC: \$ LAST PERIOD-2
B1543	J31d-2. SP REG INC: FED INC TAXED-2
B1544	J31e-2. SP REG INC: START >2YRS AGO-2
B1545	J31f-2. SP REG INC: START MONTH-2
B1546	J31g-2. SP REG INC: START YEAR-2
B1555	J36-2. SP REG INC: ANY OTHER-2

B1560	J30-3. SP REG INC: TYPE-3
B1561	J31-3. SP REG INC: PAID PER MONTH-3
B1562	J31b-3. SP REG INC: \$ PERIOD-3
B1563	J31c-3. SP REG INC: \$ LAST PERIOD-3
B1564	J31d-3. SP REG INC: FED INC TAXED-3
B1565	J31e-3. SP REG INC: START >2YRS AGO-3
B1566	J31f-3. SP REG INC: START MONTH-3
B1567	J31g-3. SP REG INC: START YEAR-3
B1576	J37. SP REG INC: ANY END 92/93
B1577	J37a. SP REG INC END 92/93: TYPE
B1578	J37b. SP REG INC END 92/93: LAST MO RECD
B1579	J37b. SP REG INC END 92/93: LAST YR RECD
B1580	J37c. SP REG INC END 92/93: PAID PER MO
B1581	J37d. SP REG INC END 92/93: \$ PERIOD
B1582	J37e. SP REG INC END 92/93: \$ LST PERIOD
B1583	J40-1. INVEST INC: RECEIVE ANY-1
B1584	J41-1. INVEST INC: TYPE-1
B1585	J42-1. INVEST INC: \$ PERIOD-1
B1586	J42a-1. INVEST INC: \$ LAST PERIOD-1
B1587	J42b-1. INVEST INC: TOTAL \$ PD 1992/3-1
B1588	J42c-1. INVEST INC: 1992/3 \$ PERIOD-1
B1589	J40-2. INVEST INC: RECEIVE ANY-2
B1590	J41-2. INVEST INC: TYPE-2
B1591	J42-2. INVEST INC: \$ PERIOD-2
B1592	J42a-2. INVEST INC: \$ LAST PERIOD-2
B1593	J42b-2. INVEST INC: TOTAL \$ PD 1992/3-2
B1594	J42c-2. INVEST INC: 1992/3 \$ PERIOD-2
B1595	J43. INVEST INC: ANY END 1992/3
B1596	J43a. INVEST INC END 1992/3: TYPE
B1597	J43b. INVES INC END 92/3: LAST MO RECD-1
B1598	J43c. INVES INC END 92/3: LAST YR RECD-2
B1599	J43d. INVEST INC END 1992/3: \$ LAST MO
HRS 1994:	
W15900	N1. Imputation flag
W15901	N1a. Imputation flag
W15906	N2. Imputation flag
W15907	N2a. Imputation flag
W16287	N28a. Imputation flag
W16288	N29a1. Imputation flag
W16295	N28b. Imputation flag
W16296	N29b1. Imputation flag
W16301	N28c. Imputation flag
W16302	N29c1. Imputation flag
W5900	N1.SELF-EMPLOYMENT INCOM
W5901	N1a.AMOUNT SELF-EMPLOYME
W5902	N1a1. Brackets
W5906	N2.INCOME FROM BUSINESS/
W5907	N2a.AMOUNT BUSINESS INCO
W5908	N2a1. Brackets
W6287	N28a.RENTAL INCOME IN 19
W6288	N29a1.AMT RENTAL INCOME
W6289	N29a1. Brackets
W6293	N29-x1.BEFORE/AFTER EXPE
W6294	N29-x2.EXPENSES IN 1993
W6295	N28b.DIVIDEND/INTEREST I
W6296	N29b1.AMOUNT DIVIDEND/IN
W6297	N29b1. Brackets
W6301	N28c.INCOME FROM TRUST F
W6302	N29c1.AMT TRUST FUND/ROY

## AHEAD 1995:

D3983	J16.RENTAL INCOME
D3984	J16A.RENTAL OFTEN PAID
D3985	J16B.RENTAL RECEIVE \$ PERIOD
D3986	J16BA.RENTAL RECEIVE SAME AMOUNT
D3987	J16C.RENTAL RECEIVE \$ LCYEAR
D3989	J16E.RENTAL INCOME DK-1
D3990	J16F.RENTAL INC DK-2
D3991	J16G.RENTAL INC DK-3
D3992	J16H.RENTAL INC DK-4
D4024	J19.BUSINESS INCOME
D4025	J19A.BUSINESS INC OFTEN PAID
D4026	J19B.BUSINESS INC RECEIVE \$ PERIOD
D4027	J19C.BUSINESS INC SAME
D4029	J19D.BUS/FARM INCOME \$ LCYEAR
D4030	J19E.BUSINESS INCOME DK-1
D4031	J19F.BUSINESS INC DK-2
D4032	J19G.BUSINESS INC DK-3
D4033	J19H.BUSINESS INC DK-4
D4357	J38.STOCKS INCOME
D4358	J38A.STOCK INC OFTEN
D4359	J38B.STOCK INCOME \$ PERIOD
D4361	J38D.STOCK INCOME LCY
D4363	J38E.STOCK INCOME DK-1
D4364	J38F.STOCK INC DK-2
D4365	J38G.STOCK INC DK-3
D4400	J42.BONDS INCOME
D4401	J42A.BOND INC OFTEN
D4402	J42B.BOND INCOME \$ PERIOD
D4403	J42C.BOND INCOME SAME
D4404	J42D.BOND INCOME LCY
D4406	J42E.BOND INCOME DK-1
D4407	J42F.BOND INC DK-2
D4408	J42G.BOND INC DK-3
D4440	J45.CHECKING, SAVINGS INCOME
D4441	J45A.CHECKING INC OFTEN
D4442	J45B.CHECKING INCOME \$ PERIOD
D4443	J45C.CHECKING INCOME SAME
D4444	J45D.SAVINGS INTEREST LCY
D4445	J45E.CHECKING, SAVING INCOME DK-1
D4446	J45F.CHECKING, SAVING INC DK-2
D4447	J45G.CHECKING, SAVING INC DK-3
D4482	J49.CDS INCOME
D4483	J49A.CD INC OFTEN
D4484	J49B.CD INCOME \$ PERIOD
D4485	J49C.CD INCOME SAME
D4486	J49D.CD INCOME LCY
D4488	J49E.CD INCOME DK-1
D4489	J49F.CD INC DK-2
D4490	J49G.CD INC DK-3
D4517	J54.OTHER ASSETS INCOME
D4518	J55.OTHER ASSETS INCOME \$
D4519	J55A.J55-DK 1
D4520	J55B.J55-DK 2
D4521	J55C.J55 DK-3
D4522	J55D.J55-DK 4
D4523	J55E.J55 DK-5
D4524	J55F.J55-DK 6
D4534_1	J57A.R EARNINGS SELF EMP

D4536_1	J57B.R \$ EARNINGS LCY
D4537_1	J57B.DK-1
D4538_1	J57C.DK-2
D4539_1	J57D.DK-3
D4540_1	J57E.REPORT PREVIOUS
D4547_1	J58A.SP EARNINGS SELF EMP
D4549_1	J58B.SP \$ EARNINGS LCY
D4550_1	J58B.DK-1
D4551_1	J58C.DK-2
D4552_1	J58D.DK-3
D4562	J60.TRUST FUND INCOME
D4563	J60A. TRUST FUNDS \$ 1994
HRS 1996:	
E3871	J1.R OR SP WORK FOR PAY LCYEAR
E3875	J5.R SELF-EMPLOYMENT LCYEAR
E3876	J6. R SELF-EMPLOYMENT INCOME AMOUNT
E3877	J6A.R \$ SELF-EMPLOYMENT DK-10K
E3878	J6B.R \$ SELF-EMPLOYMENT DK-25K
E3879	J6C.R \$ SELF-EMPLOYMENT DK-100K
E3880	J6D.R \$ SELF-EMPLOYMENT DK-5K
E3908	J13.SP SELF-EMPLOYMENT LCYEAR
E3909	J14.SP HOW MUCH SELF-EMPLOYMENT
E3910	J14A.SP \$ SELF-EMPLOYMENT DK-10K
E3911	J14B.SP \$ SELF-EMPLOYMENT DK-25K
E3912	J14C.SP \$ SELF-EMPLOYMENT DK-100K
E3913	J14D.SP \$ SELF-EMPLOYMENT DK-5K
E4070	J76.REAL ESTATE
E4085	J78.RENTAL INCOME
E4086	J79.RENTAL OFTEN PAID
E4087	J80.RENTAL RECEIVE \$ PERIOD
E4088	J81.RENTAL RECEIVE SAME AMOUNT
E4089	J82.RENTAL RECEIVE \$ LCYEAR
E4091	J82A.RENTAL RECEIVE \$ LC_YR DK-50K
E4092	J82B.RENTAL RECEIVE \$ LC_YR DK-75K
E4093	J82C.RENTAL RECEIVE \$ LC_YR DK-25K
E4096	J83.OWN BUSINESS OR FARM
E4112	J85.BUSINESS INCOME
E4113	J86.BUSINESS INC OFTEN PAID
E4114	J87.BUSINESS INC RECEIVE \$ PERIOD
E4115	J88.BUSINESS INC SAME
E4117	J89.BUS/FARM INCOME \$ LCYEAR
E4118	J89A.BUS/FARM INCOME \$ LC_YR DK-20K
E4119	J89B.BUS/FARM INCOME \$ LC_YR DK-50K
E4120	J89C.BUS/FARM INCOME \$ LC_YR DK-5K
E4121	J89D.BUS/FARM INCOME \$ LC_YR DK-2K
E4122	J89E.BUSINESS TELL EARLIER
E4339	J207.STOCK ASSETS
E4358	J209.STOCKS INCOME
E4359	J210.STOCK INC OFTEN
E4360	J211.STOCK INC RECEIVE \$ PERIOD
E4361	J212.STOCK INC SAME
E4362	J213.STOCK INCOME \$ LCYEAR
E4364	J213A.STOCK INCOME \$ LC_YR DK-5K
E4365	J213B.STOCK INCOME \$ LC_YR DK-2
E4366	J213C.STOCK INCOME \$ LC_YR DK-1K
E4382	J215.BOND ASSETS
E4401	J217.BONDS INCOME
E4402	J218.BONDS INC OFTEN PAID
E4403	J219.BONDS INC RECEIVE \$ PERIOD

E4404	J220.BONDS INC SAME
E4405	J221.BOND INCOME \$ LCYEAR
E4407	J221A.BOND INCOME \$ LC_YR DK-5K
E4408	J221B.BOND INCOME \$ LC_YR DK-20K
E4409	J221C.BOND INCOME \$ LC_YR DK-1K
E4425	J222.CHECKING,SAVING ASSETS
E4441	J224.CHECKING, SAVINGS INCOME
E4442	J225.CHECKING INC OFTEN
E4443	J226.CHECKING INC RECEIVE \$ PERIOD
E4444	J227.CHECKING INC SAME
E4445	J228.CHECKING INCOME \$ LCYEAR
E4446	J228A.CHKNG INCOME \$ LC_YR DK-2
E4447	J228B.CHKNG INCOME \$ LC_YR DK-5K
E4448	J228C.CHKNG INCOME \$ LC_YR DK-1K
E4464	J229.CD,TBILL ASSETS
E4483	J232.CDS INCOME
E4484	J233.CD INC OFTEN
E4485	J234.CD INC RECEIVE \$ PERIOD
E4486	J235.CD INC SAME
E4487	J236.CD INCOME \$ LCYEAR
E4489	J236A.CD INCOME \$ LC_YR DK-2K
E4490	J236B.CD INCOME \$ LC_YR DK-5K
E4491	J236C.CD INCOME \$ LC_YR DK-1K
E4513	J239.OTHER ASSETS
E4515	J240A.OTHER ASSETS DK-50K
E4519	J242.OTHER ASSETS INCOME \$
E4520	J242A.OTHER ASSETS INCOME \$ DK-5K
E4521	J242B.OTHER ASSETS INCOME \$ DK-25K
E4522	J242C.OTHER ASSETS INCOME \$ DK-1K
E4563	J244.TRUST FUND INCOME LCY
E4564	J245.TRUST FUNDS \$LCY
HRS 1998:	
F4633	J5.R SELF-EMPLOYMENT LCYEAR
F4634	J6.R HOW MUCH SELF-EMPLOYMENT
F4635	J6A.R DK-5K
F4636	J6A.R DK-10,000
F4637	J6B.R DK-25,000
F4638	J6C.R DK-100,000
F4639	J6B.R DK-10,000
F4640	J6D.R DK-5,000
F4669	J13.SP SELF-EMPLOYMENT LCYEAR
F4670	J14.SP HOW MUCH SELF-EMPLOYMENT
F4671	J14A.SP DK-10,000
F4672	J14B.SP DK-25,000
F4673	J14C.SP DK-100,000
F4674	J14D.SP DK-5,000
F4830	J76.REAL ESTATE
F4845	J78.RENTAL INCOME
F4846	J79.RENTAL OFTEN PAID
F4847	J80.RENTAL RECEIVE \$ PERIOD
F4848	J81.RENTAL RECEIVE SAME AMOUNT
F4849	J82.RENTAL RECEIVE \$ LCYEAR
F4851	J82A.RENTAL INCOME DK-50,000
F4852	J82B.RENTAL INC DK-75,000
F4853	J82C.RENTAL INC DK-25,000
F4856	J83.BUSINESS
F4872	J85.BUSINESS INCOME
F4873	J86.BUSINESS INC OFTEN PAID
F4874	J87.BUSINESS INC RECEIVE \$ PERIOD

F4875	J88.BUSINESS INC SAME
F4877	J89.BUS/FARM INCOME \$ LCYEAR
F4878	J89A.BUSINESS INCOME DK-20,000
F4879	J89B.BUSINESS INC DK-50,000
F4880	J89C.BUSINESS INC DK-5,000
F4881	J89D.BUSINESS INC DK-2,000
F4882	J89E.BUSINESS TELL EARLIER
F5099	J207.STOCK ASSETS
F5118	J209.STOCKS INCOME
F5119	J210.STOCK INC OFTEN
F5120	J211.STOCK INC RECEIVE \$ PERIOD
F5121	J212.STOCK INC SAME
F5122	J213.STOCK INCOME \$ LCYEAR
F5124	J213A.STOCK INCOME DK-5K
F5125	J213B.STOCK INC DK-25K
F5126	J213C.STOCK INC DK-1K
F5142	J215.BOND ASSETS
F5161	J217.BONDS INCOME
F5162	J218.BONDS INC OFTEN PAID
F5163	J219.BONDS INC RECEIVE \$ PERIOD
F5164	J220.BONDS INC SAME
F5165	J221.BOND INCOME \$ LCYEAR
F5167	J221A.BOND INCOME DK-5K
F5168	J221B.BOND INC DK-20K
F5169	J221C.BOND INC DK-1K
F5185	J222.CHECKING, SAVING ASSETS
F5201	J224.CHECKING, SAVINGS INCOME
F5202	J225.CHECKING INC OFTEN
F5203	J226.CHECKING INC RECEIVE \$ PERIOD
F5204	J227.CHECKING INC SAME
F5205	J228.CHECKING INCOME \$ LCYEAR
F5206	J228A.CHECKING, SAVING INCOME DK-2
F5207	J228B.CHECKING, SAVING INC DK-5K
F5208	J228C.CHECKING, SAVING INC DK-1K
F5224	J229.CD, TBILL ASSETS
F5243	J232.CDS INCOME
F5244	J233.CD INC OFTEN
F5245	J234.CD INC RECEIVE \$ PERIOD
F5246	J235.CD INC SAME
F5247	J236.CD INCOME \$ LCYEAR
F5249	J236A.CD INCOME DK-2K
F5250	J236B.CD INC DK-5K
F5251	J236C.CD INC DK-1K
F5273	J239.OTHER ASSETS
F5282	J241.OTHER ASSETS INCOME
F5283	J242.OTHER ASSETS INCOME \$
F5284	J242A.DK-5K
F5285	J242B.DK-25K
F5286	J242C.DK-1K
F5323	J244.TRUST FUND INCOME LCY
F5324	J245.TRUST FUNDS \$LCY
HRS 2000:	
G5072	J5.R SELF-EMPLOYMENT LCYEAR
G5073	J6.R HOW MUCH SELF-EMPLOYMENT
G5074	J6A.R DK-5K
G5075	J6Y1A.R DK-10000
G5076	J6B.R DK-25000
G5077	J6C.R DK-100000
G5078	J6Y1B.R DK-10000

G5079	J6D.R DK-5000
G5108	J13.SP SELF-EMPLOYMENT LCYEAR
G5109	J14.SP HOW MUCH SELF-EMPLOYMENT
G5110	J14A.SP DK-10000
G5111	J14B.SP DK-25000
G5112	J14C.SP DK-100000
G5113	J14D.SP DK-5000
G5275	J76.REAL ESTATE
G5290	J78.RENTAL INCOME
G5291	J79.RENTAL OFTEN PAID
G5292	J80.RENTAL RECEIVE \$ PERIOD
G5293	J81.RENTAL RECEIVE SAME AMOUNT
G5294	J82.RENTAL RECEIVE \$ LCYEAR
G5296	J82A.RENTAL INCOME DK-50000
G5297	J82B.RENTAL INC DK-75000
G5298	J82C.RENTAL INC DK-25000
G5301	J83.BUSINESS
G5317	J85.BUSINESS INCOME
G5318	J86.BUSINESS INC OFTEN PAID
G5319	J87.BUSINESS INC RECEIVE \$ PERIOD
G5320	J88.BUSINESS INC SAME
G5322	J89.BUS/FARM INCOME \$ LCYEAR
G5323	J89A.BUSINESS INCOME DK-20000
G5324	J89B.BUSINESS INC DK-50000
G5325	J89C.BUSINESS INC DK-5000
G5326	J89D.BUSINESS INC DK-2000
G5327	J89E.BUSINESS TELL EARLIER
G5554	J207.STOCK ASSETS
G5568	J209.STOCKS INCOME
G5569	J210.STOCK INC OFTEN
G5570	J211.STOCK INC RECEIVE \$ PERIOD
G5571	J212.STOCK INC SAME
G5572	J213.STOCK INCOME \$ LCYEAR
G5574	J213A.STOCK INCOME DK-5K
G5575	J213B.STOCK INC DK-25K
G5576	J213C.STOCK INC DK-1K
G5587	J215.BOND ASSETS
G5602	J217.BONDS INCOME
G5603	J218.BONDS INC OFTEN PAID
G5604	J219.BONDS INC RECEIVE \$ PERIOD
G5605	J220.BONDS INC SAME
G5606	J221.BOND INCOME \$ LCYEAR
G5608	J221A. BOND INCOME DK-5K
G5609	J221B.BOND INC DK-20K
G5610	J221C.BOND INC DK-1K
G5620	J222.CHECKING-SAVING ASSETS
G5636	J224.CHECKING-SAVINGS INCOME
G5637	J225.CHECKING INC OFTEN
G5638	J226.CHECKING INC RECEIVE \$ PERIOD
G5639	J227.CHECKING INC SAME
G5640	J228.CHECKING INCOME \$ LCYEAR
G5641	J228A.CHECKING-SAVING INCOME DK-2K
G5642	J228B.CHECKING-SAVING INC DK-5K
G5643	J228C.CHECKING-SAVING INC DK-1K
G5650	J229.CD-TBILL ASSETS
G5664	J232.CDS INCOME
G5665	J233.CD INC OFTEN
G5666	J234.CD INC RECEIVE \$ PERIOD
G5667	J235.CD INC SAME



G5668	J236.CD INCOME \$ LCYEAR
G5670	J236A.CD INCOME DK-2K
G5671	J236B.CD INC DK-5K
G5672	J236C.CD INC DK-1K
G5694	J239.OTHER ASSETS
G5703	J241.OTHER ASSETS INCOME
G5704	J242.OTHER ASSETS INCOME \$
G5705	J242A.DK-5K
G5706	J242B.DK-25K
G5707	J242C.DK-1K
G5717	J244.TRUST FUND INCOME LCY
G5718	J245.TRUST FUNDS AMT RCV-LCY
HRS 2002:	
HQ014	R INCOME FROM WORK SELF EMPL - LCY
HQ015	R AMOUNT FROM WORK SELF EMPL LCY
HQ016	R INCOME FROM SELF EMPLOYMENT - MIN
HQ017	R INCOME FROM SELF EMPLOYMENT - MAX
HQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
HQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
HQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
HQ041	SP INC FROM SELF EMPL INC - MIN
HQ042	SP INC FROM SELF EMPL INC - MAX
HQ043	SP INC FROM SELF EMPL INC - RESULT
HQ133	REAL ESTATE ASSET
HQ138	RENTAL INCOME FROM THIS PROPERTY
HQ139	RENTAL INCOME RECEIVE HOW OFTEN
HQ141	RENTAL INCOME AMOUNT LAST PERIOD
HQ142	RENTAL INC SAME AMOUNT PER PERIOD
HQ143	RENTAL INCOME AMOUNT - LCY
HQ144	RENTAL INCOME AMT - MIN
HQ145	RENTAL INCOME AMT - MAX
HQ146	RENTAL INCOME AMT - RESULT
HQ147	BUSINESS OR FARM ASSETS
HQ152	BUSINESS OR FARM INCOME
HQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
HQ155	BUSINESS OR FARM INC AMT LAST PERIOD
HQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
HQ157	BUSINESS OR FARM INC - LCY
HQ158	BUSINESS OR FARM INC - MIN
HQ159	BUSINESS OR FARM INC - MAX
HQ160	BUSINESS OR FARM INC - RESULT
HQ161	BUSINESS INC REPORTED EARLIER IN IW
HQ316	STOCK AND STOCK MUTUAL FUNDS
HQ321	STOCK INCOME
HQ322	STOCK INCOME HOW OFTEN
HQ324	STOCK INCOME AMOUNT LAST PERIOD
HQ325	STOCK INCOME AMOUNT SAME PER PERIOD
HQ326	STOCK INCOME AMOUNT - LCY
HQ327	STOCK INCOME AMOUNT - MIN
HQ328	STOCK INCOME AMOUNT - MAX
HQ329	STOCK INCOME AMOUNT - RESULT
HQ330	BOND ASSETS
HQ335	BOND ASSET INTEREST INCOME
HQ336	BOND INCOME HOW OFTEN
HQ338	BOND INCOME AMOUNT LAST PERIOD
HQ339	BOND INCOME AMOUNT SAME PER PERIOD
HQ340	BOND INCOME AMOUNT - LCY
HQ341	BOND INCOME AMOUNT - MIN
HQ342	BOND INCOME AMOUNT - MAX

HQ343	BOND INCOME AMOUNT - RESULT
HQ344	CHECKING SAVINGS MARKET FUNDS
HQ349	CHECKING INTEREST INCOME
HQ350	CHECKING INCOME HOW OFTEN
HQ352	CHECKING INCOME LAST PERIOD
HQ353	CHECKING INCOME PER PERIOD
HQ354	CHECKING INCOME AMOUNT - LCY
HQ356	CDS GOVT SAVINGS TBILLS
HQ361	CDS INTEREST INCOME
HQ362	CDS INCOME HOW OFTEN
HQ364	CDS INCOME LAST PERIOD
HQ365	CDS INCOME SAME PER PERIOD
HQ366	CDS INCOME AMOUNT - LCY
HQ367	CDS INCOME AMOUNT - MIN
HQ368	CDS INCOME AMOUNT - MAX
HQ369	CDS INCOME AMOUNT - RESULT
HQ375	OTHER ASSETS
HQ380	OTHER ASSET INCOME
HQ381	OTHER ASSET INCOME AMOUNT
HQ382	OTHER ASSET INCOME - MIN
HQ383	OTHER ASSET INCOME - MAX
HQ384	OTHER ASSET INCOME - RESULT
HQ385	TRUST OR ROYALTIES INCOME
HQ386	TRUSTS INCOME AMOUNT - LCY
HQ494	CHECKING INCOME - MIN
HQ495	CHECKING INCOME - MAX
HQ496	CHECKING INCOME - RESULT
HRS 2004:	
JQ014	R INCOME FROM WORK SELF EMPL - LCY
JQ015	R AMOUNT FROM WORK SELF EMPL LCY
JQ016	R INCOME FROM SELF EMPLOYMENT - MIN
JQ017	R INCOME FROM SELF EMPLOYMENT - MAX
JQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
JQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
JQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
JQ041	SP INC FROM SELF EMPL INC - MIN
JQ042	SP INC FROM SELF EMPL INC - MAX
JQ043	SP INC FROM SELF EMPL INC - RESULT
JQ133	REAL ESTATE ASSET
JQ138	RENTAL INCOME FROM THIS PROPERTY
JQ139	RENTAL INCOME RECEIVE HOW OFTEN
JQ141	RENTAL INCOME AMOUNT LAST PERIOD
JQ142	RENTAL INC SAME AMOUNT PER PERIOD
JQ143	RENTAL INCOME AMOUNT - LCY
JQ144	RENTAL INCOME AMT - MIN
JQ145	RENTAL INCOME AMT - MAX
JQ146	RENTAL INCOME AMT - RESULT
JQ147	BUSINESS OR FARM ASSETS
JQ152	BUSINESS OR FARM INCOME
JQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
JQ155	BUSINESS OR FARM INC AMT LAST PERIOD
JQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
JQ157	BUSINESS OR FARM INC - LCY
JQ158	BUSINESS OR FARM INC - MIN
JQ159	BUSINESS OR FARM INC - MAX
JQ160	BUSINESS OR FARM INC - RESULT
JQ161	BUSINESS INC REPORTED EARLIER IN IW
JQ316	STOCK AND STOCK MUTUAL FUNDS
JQ321	STOCK INCOME

JQ322	STOCK INCOME HOW OFTEN
JQ324	STOCK INCOME AMOUNT LAST PERIOD
JQ325	STOCK INCOME AMOUNT SAME PER PERIOD
JQ326	STOCK INCOME AMOUNT - LCY
JQ327	STOCK INCOME AMOUNT - MIN
JQ328	STOCK INCOME AMOUNT - MAX
JQ329	STOCK INCOME AMOUNT - RESULT
JQ330	BOND ASSETS
JQ335	BOND ASSET INTEREST INCOME
JQ336	BOND INCOME HOW OFTEN
JQ338	BOND INCOME AMOUNT LAST PERIOD
JQ339	BOND INCOME AMOUNT SAME PER PERIOD
JQ340	BOND INCOME AMOUNT - LCY
JQ341	BOND INCOME AMOUNT - MIN
JQ342	BOND INCOME AMOUNT - MAX
JQ343	BOND INCOME AMOUNT - RESULT
JQ344	CHECKING SAVINGS MARKET FUNDS
JQ349	CHECKING INTEREST INCOME
JQ350	CHECKING INCOME HOW OFTEN
JQ352	CHECKING INCOME LAST PERIOD
JQ353	CHECKING INCOME PER PERIOD
JQ354	CHECKING INCOME AMOUNT - LCY
JQ356	CDS GOVT SAVINGS TBILLS
JQ361	CDS INTEREST INCOME
JQ362	CDS INCOME HOW OFTEN
JQ364	CDS INCOME LAST PERIOD
JQ365	CDS INCOME SAME PER PERIOD
JQ366	CDS INCOME AMOUNT - LCY
JQ367	CDS INCOME AMOUNT - MIN
JQ368	CDS INCOME AMOUNT - MAX
JQ369	CDS INCOME AMOUNT - RESULT
JQ375	OTHER ASSETS
JQ380	OTHER ASSET INCOME
JQ381	OTHER ASSET INCOME AMOUNT
JQ382	OTHER ASSET INCOME - MIN
JQ383	OTHER ASSET INCOME - MAX
JQ384	OTHER ASSET INCOME - RESULT
JQ494	CHECKING INCOME - MIN
JQ495	CHECKING INCOME - MAX
JQ496	CHECKING INCOME - RESULT
HRS 2006:	
KQ014	R INCOME FROM WORK SELF EMPL - LCY
KQ015	R AMOUNT FROM WORK SELF EMPL LCY
KQ016	R INCOME FROM SELF EMPLOYMENT - MIN
KQ017	R INCOME FROM SELF EMPLOYMENT - MAX
KQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
KQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
KQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
KQ041	SP INC FROM SELF EMPL INC - MIN
KQ042	SP INC FROM SELF EMPL INC - MAX
KQ043	SP INC FROM SELF EMPL INC - RESULT
KQ133	REAL ESTATE ASSET
KQ138	RENTAL INCOME FROM THIS PROPERTY
KQ139	RENTAL INCOME RECEIVE HOW OFTEN
KQ141	RENTAL INCOME AMOUNT LAST PERIOD
KQ142	RENTAL INC SAME AMOUNT PER PERIOD
KQ143	RENTAL INCOME AMOUNT - LCY
KQ144	RENTAL INCOME AMT - MIN
KQ145	RENTAL INCOME AMT - MAX

KQ146	RENTAL INCOME AMT - RESULT
KQ147	BUSINESS OR FARM ASSETS
KQ152	BUSINESS OR FARM INCOME
KQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
KQ155	BUSINESS OR FARM INC AMT LAST PERIOD
KQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
KQ157	BUSINESS OR FARM INC - LCY
KQ158	BUSINESS OR FARM INC - MIN
KQ159	BUSINESS OR FARM INC - MAX
KQ160	BUSINESS OR FARM INC - RESULT
KQ161	BUSINESS INC REPORTED EARLIER IN IW
KQ316	STOCK AND STOCK MUTUAL FUNDS
KQ321	STOCK INCOME
KQ322	STOCK INCOME HOW OFTEN
KQ324	STOCK INCOME AMOUNT LAST PERIOD
KQ325	STOCK INCOME AMOUNT SAME PER PERIOD
KQ326	STOCK INCOME AMOUNT - LCY
KQ327	STOCK INCOME AMOUNT - MIN
KQ328	STOCK INCOME AMOUNT - MAX
KQ329	STOCK INCOME AMOUNT - RESULT
KQ330	BOND ASSETS
KQ335	BOND ASSET INTEREST INCOME
KQ336	BOND INCOME HOW OFTEN
KQ338	BOND INCOME AMOUNT LAST PERIOD
KQ339	BOND INCOME AMOUNT SAME PER PERIOD
KQ340	BOND INCOME AMOUNT - LCY
KQ341	BOND INCOME AMOUNT - MIN
KQ342	BOND INCOME AMOUNT - MAX
KQ343	BOND INCOME AMOUNT - RESULT
KQ344	CHECKING SAVINGS MARKET FUNDS
KQ349	CHECKING INTEREST INCOME
KQ350	CHECKING INCOME HOW OFTEN
KQ352	CHECKING INCOME LAST PERIOD
KQ353	CHECKING INCOME PER PERIOD
KQ354	CHECKING INCOME AMOUNT - LCY
KQ356	CDS GOVT SAVINGS TBILLS
KQ361	CDS INTEREST INCOME
KQ362	CDS INCOME HOW OFTEN
KQ364	CDS INCOME LAST PERIOD
KQ365	CDS INCOME SAME PER PERIOD
KQ366	CDS INCOME AMOUNT - LCY
KQ367	CDS INCOME AMOUNT - MIN
KQ368	CDS INCOME AMOUNT - MAX
KQ369	CDS INCOME AMOUNT - RESULT
KQ375	OTHER ASSETS
KQ380	OTHER ASSET INCOME
KQ381	OTHER ASSET INCOME AMOUNT
KQ382	OTHER ASSET INCOME - MIN
KQ383	OTHER ASSET INCOME - MAX
KQ384	OTHER ASSET INCOME - RESULT
KQ494	CHECKING INCOME - MIN
KQ495	CHECKING INCOME - MAX
KQ496	CHECKING INCOME - RESULT
HRS 2008:	
LQ014	R INCOME FROM WORK SELF EMPL - LCY
LQ015	R AMOUNT FROM WORK SELF EMPL LCY
LQ016	R INCOME FROM SELF EMPLOYMENT - MIN
LQ017	R INCOME FROM SELF EMPLOYMENT - MAX
LQ018	R INCOME FROM SELF EMPLOYMENT - RESULT

LQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
LQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
LQ041	SP INC FROM SELF EMPL INC - MIN
LQ042	SP INC FROM SELF EMPL INC - MAX
LQ043	SP INC FROM SELF EMPL INC - RESULT
LQ133	REAL ESTATE ASSET
LQ138	RENTAL INCOME FROM THIS PROPERTY
LQ139	RENTAL INCOME RECEIVE HOW OFTEN
LQ141	RENTAL INCOME AMOUNT LAST PERIOD
LQ142	RENTAL INC SAME AMOUNT PER PERIOD
LQ143	RENTAL INCOME AMOUNT - LCY
LQ144	RENTAL INCOME AMT - MIN
LQ145	RENTAL INCOME AMT - MAX
LQ146	RENTAL INCOME AMT - RESULT
LQ147	BUSINESS OR FARM ASSETS
LQ152	BUSINESS OR FARM INCOME
LQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
LQ155	BUSINESS OR FARM INC AMT LAST PERIOD
LQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
LQ157	BUSINESS OR FARM INC - LCY
LQ158	BUSINESS OR FARM INC - MIN
LQ159	BUSINESS OR FARM INC - MAX
LQ160	BUSINESS OR FARM INC - RESULT
LQ161	BUSINESS INC REPORTED EARLIER IN IW
LQ316	STOCK AND STOCK MUTUAL FUNDS
LQ321	STOCK INCOME
LQ322	STOCK INCOME HOW OFTEN
LQ324	STOCK INCOME AMOUNT LAST PERIOD
LQ325	STOCK INCOME AMOUNT SAME PER PERIOD
LQ326	STOCK INCOME AMOUNT - LCY
LQ327	STOCK INCOME AMOUNT - MIN
LQ328	STOCK INCOME AMOUNT - MAX
LQ329	STOCK INCOME AMOUNT - RESULT
LQ330	BOND ASSETS
LQ335	BOND ASSET INTEREST INCOME
LQ336	BOND INCOME HOW OFTEN
LQ338	BOND INCOME AMOUNT LAST PERIOD
LQ339	BOND INCOME AMOUNT SAME PER PERIOD
LQ340	BOND INCOME AMOUNT - LCY
LQ341	BOND INCOME AMOUNT - MIN
LQ342	BOND INCOME AMOUNT - MAX
LQ343	BOND INCOME AMOUNT - RESULT
LQ344	CHECKING SAVINGS MARKET FUNDS
LQ349	CHECKING INTEREST INCOME
LQ350	CHECKING INCOME HOW OFTEN
LQ352	CHECKING INCOME LAST PERIOD
LQ353	CHECKING INCOME PER PERIOD
LQ354	CHECKING INCOME AMOUNT - LCY
LQ356	CDS GOVT SAVINGS TBILLS
LQ361	CDS INTEREST INCOME
LQ362	CDS INCOME HOW OFTEN
LQ364	CDS INCOME LAST PERIOD
LQ365	CDS INCOME SAME PER PERIOD
LQ366	CDS INCOME AMOUNT - LCY
LQ367	CDS INCOME AMOUNT - MIN
LQ368	CDS INCOME AMOUNT - MAX
LQ369	CDS INCOME AMOUNT - RESULT
LQ375	OTHER ASSETS
LQ380	OTHER ASSET INCOME

LQ381	OTHER ASSET INCOME AMOUNT
LQ382	OTHER ASSET INCOME - MIN
LQ383	OTHER ASSET INCOME - MAX
LQ384	OTHER ASSET INCOME - RESULT
LQ494	CHECKING INCOME - MIN
LQ495	CHECKING INCOME - MAX
LQ496	CHECKING INCOME - RESULT
HRS 2010:	
MQ014	R INCOME FROM WORK SELF EMPL - LCY
MQ015	R AMOUNT FROM WORK SELF EMPL LCY
MQ016	R INCOME FROM SELF EMPLOYMENT - MIN
MQ017	R INCOME FROM SELF EMPLOYMENT - MAX
MQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
MQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
MQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
MQ041	SP INC FROM SELF EMPL INC - MIN
MQ042	SP INC FROM SELF EMPL INC - MAX
MQ043	SP INC FROM SELF EMPL INC - RESULT
MQ133	REAL ESTATE ASSET
MQ138	RENTAL INCOME FROM THIS PROPERTY
MQ139	RENTAL INCOME RECEIVE HOW OFTEN
MQ141	RENTAL INCOME AMOUNT LAST PERIOD
MQ142	RENTAL INC SAME AMOUNT PER PERIOD
MQ143	RENTAL INCOME AMOUNT - LCY
MQ144	RENTAL INCOME AMT - MIN
MQ145	RENTAL INCOME AMT - MAX
MQ146	RENTAL INCOME AMT - RESULT
MQ147	BUSINESS OR FARM ASSETS
MQ152	BUSINESS OR FARM INCOME
MQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
MQ155	BUSINESS OR FARM INC AMT LAST PERIOD
MQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
MQ157	BUSINESS OR FARM INC - LCY
MQ158	BUSINESS OR FARM INC - MIN
MQ159	BUSINESS OR FARM INC - MAX
MQ160	BUSINESS OR FARM INC - RESULT
MQ161	BUSINESS INC REPORTED EARLIER IN IW
MQ316	STOCK AND STOCK MUTUAL FUNDS
MQ321	STOCK INCOME
MQ322	STOCK INCOME HOW OFTEN
MQ324	STOCK INCOME AMOUNT LAST PERIOD
MQ325	STOCK INCOME AMOUNT SAME PER PERIOD
MQ326	STOCK INCOME AMOUNT - LCY
MQ327	STOCK INCOME AMOUNT - MIN
MQ328	STOCK INCOME AMOUNT - MAX
MQ329	STOCK INCOME AMOUNT - RESULT
MQ330	BOND ASSETS
MQ335	BOND ASSET INTEREST INCOME
MQ336	BOND INCOME HOW OFTEN
MQ338	BOND INCOME AMOUNT LAST PERIOD
MQ339	BOND INCOME AMOUNT SAME PER PERIOD
MQ340	BOND INCOME AMOUNT - LCY
MQ341	BOND INCOME AMOUNT - MIN
MQ342	BOND INCOME AMOUNT - MAX
MQ343	BOND INCOME AMOUNT - RESULT
MQ344	CHECKING SAVINGS MARKET FUNDS
MQ349	CHECKING INTEREST INCOME
MQ350	CHECKING INCOME HOW OFTEN
MQ352	CHECKING INCOME LAST PERIOD

MQ353	CHECKING INCOME PER PERIOD
MQ354	CHECKING INCOME AMOUNT - LCY
MQ356	CDS GOVT SAVINGS TBILLS
MQ361	CDS INTEREST INCOME
MQ362	CDS INCOME HOW OFTEN
MQ364	CDS INCOME LAST PERIOD
MQ365	CDS INCOME SAME PER PERIOD
MQ366	CDS INCOME AMOUNT - LCY
MQ367	CDS INCOME AMOUNT - MIN
MQ368	CDS INCOME AMOUNT - MAX
MQ369	CDS INCOME AMOUNT - RESULT
MQ375	OTHER ASSETS
MQ380	OTHER ASSET INCOME
MQ381	OTHER ASSET INCOME AMOUNT
MQ382	OTHER ASSET INCOME - MIN
MQ383	OTHER ASSET INCOME - MAX
MQ384	OTHER ASSET INCOME - RESULT
MQ494	CHECKING INCOME - MIN
MQ495	CHECKING INCOME - MAX
MQ496	CHECKING INCOME - RESULT
HRS 2012:	
NQ014	R INCOME FROM WORK SELF EMPL - LCY
NQ015	R AMOUNT FROM WORK SELF EMPL LCY
NQ016	R INCOME FROM SELF EMPLOYMENT - MIN
NQ017	R INCOME FROM SELF EMPLOYMENT - MAX
NQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
NQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
NQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
NQ041	SP INC FROM SELF EMPL INC - MIN
NQ042	SP INC FROM SELF EMPL INC - MAX
NQ043	SP INC FROM SELF EMPL INC - RESULT
NQ133	REAL ESTATE ASSET
NQ138	RENTAL INCOME FROM THIS PROPERTY
NQ139	RENTAL INCOME RECEIVE HOW OFTEN
NQ141	RENTAL INCOME AMOUNT LAST PERIOD
NQ142	RENTAL INC SAME AMOUNT PER PERIOD
NQ143	RENTAL INCOME AMOUNT - LCY
NQ144	RENTAL INCOME AMT - MIN
NQ145	RENTAL INCOME AMT - MAX
NQ146	RENTAL INCOME AMT - RESULT
NQ147	BUSINESS OR FARM ASSETS
NQ152	BUSINESS OR FARM INCOME
NQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
NQ155	BUSINESS OR FARM INC AMT LAST PERIOD
NQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
NQ157	BUSINESS OR FARM INC - LCY
NQ158	BUSINESS OR FARM INC - MIN
NQ159	BUSINESS OR FARM INC - MAX
NQ160	BUSINESS OR FARM INC - RESULT
NQ161	BUSINESS INC REPORTED EARLIER IN IW
NQ316	STOCK AND STOCK MUTUAL FUNDS
NQ321	STOCK INCOME
NQ322	STOCK INCOME HOW OFTEN
NQ324	STOCK INCOME AMOUNT LAST PERIOD
NQ325	STOCK INCOME AMOUNT SAME PER PERIOD
NQ326	STOCK INCOME AMOUNT - LCY
NQ327	STOCK INCOME AMOUNT - MIN
NQ328	STOCK INCOME AMOUNT - MAX
NQ329	STOCK INCOME AMOUNT - RESULT

NQ330	BOND ASSETS
NQ335	BOND ASSET INTEREST INCOME
NQ336	BOND INCOME HOW OFTEN
NQ338	BOND INCOME AMOUNT LAST PERIOD
NQ339	BOND INCOME AMOUNT SAME PER PERIOD
NQ340	BOND INCOME AMOUNT - LCY
NQ341	BOND INCOME AMOUNT - MIN
NQ342	BOND INCOME AMOUNT - MAX
NQ343	BOND INCOME AMOUNT - RESULT
NQ344	CHECKING SAVINGS MARKET FUNDS
NQ349	CHECKING INTEREST INCOME
NQ350	CHECKING INCOME HOW OFTEN
NQ352	CHECKING INCOME LAST PERIOD
NQ353	CHECKING INCOME PER PERIOD
NQ354	CHECKING INCOME AMOUNT - LCY
NQ356	CDS GOVT SAVINGS TBILLS
NQ361	CDS INTEREST INCOME
NQ362	CDS INCOME HOW OFTEN
NQ364	CDS INCOME LAST PERIOD
NQ365	CDS INCOME SAME PER PERIOD
NQ366	CDS INCOME AMOUNT - LCY
NQ367	CDS INCOME AMOUNT - MIN
NQ368	CDS INCOME AMOUNT - MAX
NQ369	CDS INCOME AMOUNT - RESULT
NQ375	OTHER ASSETS
NQ380	OTHER ASSET INCOME
NQ381	OTHER ASSET INCOME AMOUNT
NQ382	OTHER ASSET INCOME - MIN
NQ383	OTHER ASSET INCOME - MAX
NQ384	OTHER ASSET INCOME - RESULT
NQ494	CHECKING INCOME - MIN
NQ495	CHECKING INCOME - MAX
NQ496	CHECKING INCOME - RESULT
HRS 2014:	
OQ014	R INCOME FROM WORK SELF EMPL - LCY
OQ015	R AMOUNT FROM WORK SELF EMPL LCY
OQ016	R INCOME FROM SELF EMPLOYMENT - MIN
OQ017	R INCOME FROM SELF EMPLOYMENT - MAX
OQ018	R INCOME FROM SELF EMPLOYMENT - RESULT
OQ039	SP INCOME FROM SELF EMPLOYMENT - LCY
OQ040	SP AMOUNT FROM SELF EMPL INCOME LCY
OQ041	SP INC FROM SELF EMPL INC - MIN
OQ042	SP INC FROM SELF EMPL INC - MAX
OQ043	SP INC FROM SELF EMPL INC - RESULT
OQ133	REAL ESTATE ASSET
OQ138	RENTAL INCOME FROM THIS PROPERTY
OQ139	RENTAL INCOME RECEIVE HOW OFTEN
OQ141	RENTAL INCOME AMOUNT LAST PERIOD
OQ142	RENTAL INC SAME AMOUNT PER PERIOD
OQ143	RENTAL INCOME AMOUNT - LCY
OQ144	RENTAL INCOME AMT - MIN
OQ145	RENTAL INCOME AMT - MAX
OQ146	RENTAL INCOME AMT - RESULT
OQ147	BUSINESS OR FARM ASSETS
OQ152	BUSINESS OR FARM INCOME
OQ153	BUSINESS OR FARM INC RECEIVE HOW OFTEN
OQ155	BUSINESS OR FARM INC AMT LAST PERIOD
OQ156	BUSINESS OR FARM INC SAME AMT PER PERIOD
OQ157	BUSINESS OR FARM INC - LCY



OQ158	BUSINESS OR FARM INC - MIN
OQ159	BUSINESS OR FARM INC - MAX
OQ160	BUSINESS OR FARM INC - RESULT
OQ161	BUSINESS INC REPORTED EARLIER IN IW
OQ316	STOCK AND STOCK MUTUAL FUNDS
OQ321	STOCK INCOME
OQ322	STOCK INCOME HOW OFTEN
OQ324	STOCK INCOME AMOUNT LAST PERIOD
OQ325	STOCK INCOME AMOUNT SAME PER PERIOD
OQ326	STOCK INCOME AMOUNT - LCY
OQ327	STOCK INCOME AMOUNT - MIN
OQ328	STOCK INCOME AMOUNT - MAX
OQ329	STOCK INCOME AMOUNT - RESULT
OQ330	BOND ASSETS
OQ335	BOND ASSET INTEREST INCOME
OQ336	BOND INCOME HOW OFTEN
OQ338	BOND INCOME AMOUNT LAST PERIOD
OQ339	BOND INCOME AMOUNT SAME PER PERIOD
OQ340	BOND INCOME AMOUNT - LCY
OQ341	BOND INCOME AMOUNT - MIN
OQ342	BOND INCOME AMOUNT - MAX
OQ343	BOND INCOME AMOUNT - RESULT
OQ344	CHECKING SAVINGS MARKET FUNDS
OQ349	CHECKING INTEREST INCOME
OQ350	CHECKING INCOME HOW OFTEN
OQ352	CHECKING INCOME LAST PERIOD
OQ353	CHECKING INCOME PER PERIOD
OQ354	CHECKING INCOME AMOUNT - LCY
OQ356	CDS GOVT SAVINGS TBILLS
OQ361	CDS INTEREST INCOME
OQ362	CDS INCOME HOW OFTEN
OQ364	CDS INCOME LAST PERIOD
OQ365	CDS INCOME SAME PER PERIOD
OQ366	CDS INCOME AMOUNT - LCY
OQ367	CDS INCOME AMOUNT - MIN
OQ368	CDS INCOME AMOUNT - MAX
OQ369	CDS INCOME AMOUNT - RESULT
OQ375	OTHER ASSETS
OQ380	OTHER ASSET INCOME
OQ381	OTHER ASSET INCOME AMOUNT
OQ382	OTHER ASSET INCOME - MIN
OQ383	OTHER ASSET INCOME - MAX
OQ384	OTHER ASSET INCOME - RESULT
OQ494	CHECKING INCOME - MIN
OQ495	CHECKING INCOME - MAX
OQ496	CHECKING INCOME - RESULT

<b>Individual Income from Employer Pension or Annuity</b>
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Wave	Variable	Label	Type
1	R1IPENA	R1IPENA:W1 Income:R Pension + Annuity	Cont
2	R2IPENA	R2IPENA:W2 Income:R Pension + Annuity	Cont
3	R3IPENA	R3IPENA:W3 Income:R Pension + Annuity	Cont
4	R4IPENA	R4IPENA:W4 Income:R Pension + Annuity	Cont
5	R5IPENA	R5IPENA:W5 Income:R Pension + Annuity	Cont
6	R6IPENA	R6IPENA:W6 Income:R Pension + Annuity	Cont
7	R7IPENA	R7IPENA:W7 Income:R Pension + Annuity	Cont
8	R8IPENA	R8IPENA:W8 Income:R Pension + Annuity	Cont
9	R9IPENA	R9IPENA:W9 Income:R Pension + Annuity	Cont
10	R10IPENA	R10IPENA:W10 Income:R Pension + Annuity	Cont
11	R11IPENA	R11IPENA:W11 Income:R Pension + Annuity	Cont
12	R12IPENA	R12IPENA:W12 Income:R Pension + Annuity	Cont
1	S1IPENA	S1IPENA:W1 Income:Sp Pension + Annuity	Cont
2	S2IPENA	S2IPENA:W2 Income:Sp Pension + Annuity	Cont
3	S3IPENA	S3IPENA:W3 Income:Sp Pension + Annuity	Cont
4	S4IPENA	S4IPENA:W4 Income:Sp Pension + Annuity	Cont
5	S5IPENA	S5IPENA:W5 Income:Sp Pension + Annuity	Cont
6	S6IPENA	S6IPENA:W6 Income:Sp Pension + Annuity	Cont
7	S7IPENA	S7IPENA:W7 Income:Sp Pension + Annuity	Cont
8	S8IPENA	S8IPENA:W8 Income:Sp Pension + Annuity	Cont
9	S9IPENA	S9IPENA:W9 Income:Sp Pension + Annuity	Cont
10	S10IPENA	S10IPENA:W10 Income:Sp Pension + Annuity	Cont
11	S11IPENA	S11IPENA:W11 Income:Sp Pension + Annuity	Cont
12	S12IPENA	S12IPENA:W12 Income:Sp Pension + Annuity	Cont
1	R1IFPENA	R1IFPENA:W1 ImpFlag:R Pension + Annuity	Categ
2	R2IFPENA	R2IFPENA:W2 ImpFlag:R Pension + Annuity	Categ
3	R3IFPENA	R3IFPENA:W3 ImpFlag:R Pension + Annuity	Categ
4	R4IFPENA	R4IFPENA:W4 ImpFlag:R Pension + Annuity	Categ
5	R5IFPENA	R5IFPENA:W5 ImpFlag:R Pension + Annuity	Categ
6	R6IFPENA	R6IFPENA:W6 ImpFlag:R Pension + Annuity	Categ
7	R7IFPENA	R7IFPENA:W7 ImpFlag:R Pension + Annuity	Categ
8	R8IFPENA	R8IFPENA:W8 ImpFlag:R Pension + Annuity	Categ
9	R9IFPENA	R9IFPENA:W9 ImpFlag:R Pension + Annuity	Categ
10	R10IFPENA	R10IFPENA:W10 ImpFlag:R Pension + Annuity	Categ
11	R11IFPENA	R11IFPENA:W11 ImpFlag:R Pension + Annuity	Categ
12	R12IFPENA	R12IFPENA:W12 ImpFlag:R Pension + Annuity	Categ
1	S1IFPENA	S1IFPENA:W1 ImpFlag:Sp Pension + Annuity	Categ
2	S2IFPENA	S2IFPENA:W2 ImpFlag:Sp Pension + Annuity	Categ
3	S3IFPENA	S3IFPENA:W3 ImpFlag:Sp Pension + Annuity	Categ
4	S4IFPENA	S4IFPENA:W4 ImpFlag:Sp Pension + Annuity	Categ
5	S5IFPENA	S5IFPENA:W5 ImpFlag:Sp Pension + Annuity	Categ
6	S6IFPENA	S6IFPENA:W6 ImpFlag:Sp Pension + Annuity	Categ
7	S7IFPENA	S7IFPENA:W7 ImpFlag:Sp Pension + Annuity	Categ
8	S8IFPENA	S8IFPENA:W8 ImpFlag:Sp Pension + Annuity	Categ
9	S9IFPENA	S9IFPENA:W9 ImpFlag:Sp Pension + Annuity	Categ
10	S10IFPENA	S10IFPENA:W10 ImpFlag:Sp Pension + Annuity	Categ
11	S11IFPENA	S11IFPENA:W11 ImpFlag:Sp Pension + Annuity	Categ
12	S12IFPENA	S12IFPENA:W12 ImpFlag:Sp Pension + Annuity	Categ
1	R1IPEN	R1IPEN:W1 Income:R Pension	Cont
2	R2IPEN	R2IPEN:W2 Income:R Pension	Cont
3	R3IPEN	R3IPEN:W3 Income:R Pension	Cont
4	R4IPEN	R4IPEN:W4 Income:R Pension	Cont
5	R5IPEN	R5IPEN:W5 Income:R Pension	Cont
6	R6IPEN	R6IPEN:W6 Income:R Pension	Cont
7	R7IPEN	R7IPEN:W7 Income:R Pension	Cont
8	R8IPEN	R8IPEN:W8 Income:R Pension	Cont
9	R9IPEN	R9IPEN:W9 Income:R Pension	Cont
10	R10IPEN	R10IPEN:W10 Income:R Pension	Cont
11	R11IPEN	R11IPEN:W11 Income:R Pension	Cont
12	R12IPEN	R12IPEN:W12 Income:R Pension	Cont
1	S1IPEN	S1IPEN:W1 Income:Sp Pension	Cont

2	S2IPEN	S2IPEN:W2 Income:Sp Pension	Cont
3	S3IPEN	S3IPEN:W3 Income:Sp Pension	Cont
4	S4IPEN	S4IPEN:W4 Income:Sp Pension	Cont
5	S5IPEN	S5IPEN:W5 Income:Sp Pension	Cont
6	S6IPEN	S6IPEN:W6 Income:Sp Pension	Cont
7	S7IPEN	S7IPEN:W7 Income:Sp Pension	Cont
8	S8IPEN	S8IPEN:W8 Income:Sp Pension	Cont
9	S9IPEN	S9IPEN:W9 Income:Sp Pension	Cont
10	S10IPEN	S10IPEN:W10 Income:Sp Pension	Cont
11	S11IPEN	S11IPEN:W11 Income:Sp Pension	Cont
12	S12IPEN	S12IPEN:W12 Income:Sp Pension	Cont
1	R1IFPEN	R1IFPEN:W1 IncFlag:R Pension	Categ
2	R2IFPEN	R2IFPEN:W2 IncFlag:R Pension	Categ
3	R3IFPEN	R3IFPEN:W3 IncFlag:R Pension	Categ
4	R4IFPEN	R4IFPEN:W4 IncFlag:R Pension	Categ
5	R5IFPEN	R5IFPEN:W5 IncFlag:R Pension	Categ
6	R6IFPEN	R6IFPEN:W6 IncFlag:R Pension	Categ
7	R7IFPEN	R7IFPEN:W7 IncFlag:R Pension	Categ
8	R8IFPEN	R8IFPEN:W8 IncFlag:R Pension	Categ
9	R9IFPEN	R9IFPEN:W9 IncFlag:R Pension	Categ
10	R10IFPEN	R10IFPEN:W10 IncFlag:R Pension	Categ
11	R11IFPEN	R11IFPEN:W11 IncFlag:R Pension	Categ
12	R12IFPEN	R12IFPEN:W12 IncFlag:R Pension	Categ
1	S1IFPEN	S1IFPEN:W1 IncFlag:Sp Pension	Categ
2	S2IFPEN	S2IFPEN:W2 IncFlag:Sp Pension	Categ
3	S3IFPEN	S3IFPEN:W3 IncFlag:Sp Pension	Categ
4	S4IFPEN	S4IFPEN:W4 IncFlag:Sp Pension	Categ
5	S5IFPEN	S5IFPEN:W5 IncFlag:Sp Pension	Categ
6	S6IFPEN	S6IFPEN:W6 IncFlag:Sp Pension	Categ
7	S7IFPEN	S7IFPEN:W7 IncFlag:Sp Pension	Categ
8	S8IFPEN	S8IFPEN:W8 IncFlag:Sp Pension	Categ
9	S9IFPEN	S9IFPEN:W9 IncFlag:Sp Pension	Categ
10	S10IFPEN	S10IFPEN:W10 IncFlag:Sp Pension	Categ
11	S11IFPEN	S11IFPEN:W11 IncFlag:Sp Pension	Categ
12	S12IFPEN	S12IFPEN:W12 IncFlag:Sp Pension	Categ
1	R1IANN	R1IANN:W1 Income:R Annuity	Cont
2	R2IANN	R2IANN:W2 Income:R Annuity	Cont
3	R3IANN	R3IANN:W3 Income:R Annuity	Cont
4	R4IANN	R4IANN:W4 Income:R Annuity	Cont
5	R5IANN	R5IANN:W5 Income:R Annuity	Cont
6	R6IANN	R6IANN:W6 Income:R Annuity	Cont
7	R7IANN	R7IANN:W7 Income:R Annuity	Cont
8	R8IANN	R8IANN:W8 Income:R Annuity	Cont
9	R9IANN	R9IANN:W9 Income:R Annuity	Cont
10	R10IANN	R10IANN:W10 Income:R Annuity	Cont
11	R11IANN	R11IANN:W11 Income:R Annuity	Cont
12	R12IANN	R12IANN:W12 Income:R Annuity	Cont
1	S1IANN	S1IANN:W1 Income:Sp Annuity	Cont
2	S2IANN	S2IANN:W2 Income:Sp Annuity	Cont
3	S3IANN	S3IANN:W3 Income:Sp Annuity	Cont
4	S4IANN	S4IANN:W4 Income:Sp Annuity	Cont
5	S5IANN	S5IANN:W5 Income:Sp Annuity	Cont
6	S6IANN	S6IANN:W6 Income:Sp Annuity	Cont
7	S7IANN	S7IANN:W7 Income:Sp Annuity	Cont
8	S8IANN	S8IANN:W8 Income:Sp Annuity	Cont
9	S9IANN	S9IANN:W9 Income:Sp Annuity	Cont
10	S10IANN	S10IANN:W10 Income:Sp Annuity	Cont
11	S11IANN	S11IANN:W11 Income:Sp Annuity	Cont
12	S12IANN	S12IANN:W12 Income:Sp Annuity	Cont
1	R1IFANN	R1IFANN:W1 IncFlag:R Annuity	Categ
2	R2IFANN	R2IFANN:W2 IncFlag:R Annuity	Categ
3	R3IFANN	R3IFANN:W3 IncFlag:R Annuity	Categ
4	R4IFANN	R4IFANN:W4 IncFlag:R Annuity	Categ
5	R5IFANN	R5IFANN:W5 IncFlag:R Annuity	Categ
6	R6IFANN	R6IFANN:W6 IncFlag:R Annuity	Categ
7	R7IFANN	R7IFANN:W7 IncFlag:R Annuity	Categ
8	R8IFANN	R8IFANN:W8 IncFlag:R Annuity	Categ

9	R9IFANN	R9IFANN:W9 IncFlag:R Annuity	Categ
10	R10IFANN	R10IFANN:W10 IncFlag:R Annuity	Categ
11	R11IFANN	R11IFANN:W11 IncFlag:R Annuity	Categ
12	R12IFANN	R12IFANN:W12 IncFlag:R Annuity	Categ
1	S1IFANN	S1IFANN:W1 IncFlag:Sp Annuity	Categ
2	S2IFANN	S2IFANN:W2 IncFlag:Sp Annuity	Categ
3	S3IFANN	S3IFANN:W3 IncFlag:Sp Annuity	Categ
4	S4IFANN	S4IFANN:W4 IncFlag:Sp Annuity	Categ
5	S5IFANN	S5IFANN:W5 IncFlag:Sp Annuity	Categ
6	S6IFANN	S6IFANN:W6 IncFlag:Sp Annuity	Categ
7	S7IFANN	S7IFANN:W7 IncFlag:Sp Annuity	Categ
8	S8IFANN	S8IFANN:W8 IncFlag:Sp Annuity	Categ
9	S9IFANN	S9IFANN:W9 IncFlag:Sp Annuity	Categ
10	S10IFANN	S10IFANN:W10 IncFlag:Sp Annuity	Categ
11	S11IFANN	S11IFANN:W11 IncFlag:Sp Annuity	Categ
12	S12IFANN	S12IFANN:W12 IncFlag:Sp Annuity	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENA	12652	1151.63	4785.17	0.0	85000.0
R2IPENA	19642	2525.31	10478.47	0.0	480800.0
R3IPENA	17991	2945.67	11665.44	0.0	732000.0
R4IPENA	21384	3242.93	9441.25	0.0	300000.0
R5IPENA	19579	3941.63	13688.19	0.0	696240.0
R6IPENA	18165	4377.33	15615.71	0.0	1196388.0
R7IPENA	20129	4681.30	33606.63	0.0	2748372.0
R8IPENA	18469	4821.13	20044.29	0.0	1390440.0
R9IPENA	17217	8677.75	457789.63	0.0	60000000.0
R10IPENA	22034	3875.74	39405.06	0.0	5401560.0
R11IPENA	20554	4584.71	16363.93	0.0	716054.6
R12IPENA	18747	5366.04	24945.57	0.0	2160000.0
S1IPENA	10279	1232.54	5004.40	0.0	85000.0
S2IPENA	13672	2639.30	10977.87	0.0	459600.0
S3IPENA	12333	2952.31	10810.22	0.0	642000.0
S4IPENA	14515	3143.34	8965.11	0.0	225000.0
S5IPENA	13041	3864.77	13314.47	0.0	696240.0
S6IPENA	11859	4420.05	17153.03	0.0	1196388.0
S7IPENA	13352	4616.98	32385.14	0.0	2160000.0
S8IPENA	12052	4703.60	20794.90	0.0	1390440.0
S9IPENA	11012	5572.58	70516.61	0.0	7200000.0
S10IPENA	14235	3474.14	13163.78	0.0	516000.0
S11IPENA	13080	4300.14	15242.26	0.0	492000.0
S12IPENA	11620	4982.12	26696.62	0.0	2160000.0
R1IFPENA	12652	0.19	0.85	0.0	9.0
R2IFPENA	19642	0.36	0.90	0.0	9.0
R3IFPENA	17991	0.41	0.92	0.0	9.0
R4IFPENA	21384	0.44	1.03	0.0	9.0
R5IFPENA	19579	0.45	0.94	0.0	9.0
R6IFPENA	18165	0.43	0.76	0.0	9.0
R7IFPENA	20129	0.40	0.83	0.0	9.0
R8IFPENA	18469	0.40	0.79	0.0	9.0
R9IFPENA	17217	0.41	0.82	0.0	9.0
R10IFPENA	22034	0.44	1.31	0.0	9.0
R11IFPENA	20554	0.37	0.97	0.0	9.0

R12IFPENA	18747	0.42	1.06	0.0	9.0
S1IFPENA	12652	1.67	3.16	0.0	9.0
S2IFPENA	19642	2.67	3.60	0.0	9.0
S3IFPENA	17991	2.77	3.62	0.0	9.0
S4IFPENA	21384	2.86	3.66	0.0	9.0
S5IFPENA	19579	2.94	3.66	0.0	9.0
S6IFPENA	18165	3.03	3.67	0.0	9.0
S7IFPENA	20129	2.93	3.68	0.0	9.0
S8IFPENA	18469	3.02	3.69	0.0	9.0
S9IFPENA	17217	3.13	3.72	0.0	9.0
S10IFPENA	22034	3.12	3.79	0.0	9.0
S11IFPENA	20554	3.13	3.77	0.0	9.0
S12IFPENA	18747	3.29	3.80	0.0	9.0
R1IPEN	12652	1047.75	4518.71	0.0	85000.0
R2IPEN	19642	2324.42	9657.56	0.0	459600.0
R3IPEN	17991	2659.04	9352.00	0.0	642000.0
R4IPEN	21384	2951.30	8567.52	0.0	300000.0
R5IPEN	19579	3546.00	11846.92	0.0	696240.0
R6IPEN	18165	3980.94	14592.89	0.0	1196388.0
R7IPEN	20129	4181.46	29411.37	0.0	2748372.0
R8IPEN	18469	4175.14	17209.24	0.0	1374108.0
R9IPEN	17217	8044.13	457536.58	0.0	60000000.0
R10IPEN	22034	3339.64	37962.26	0.0	5401560.0
R11IPEN	20554	4116.48	13945.07	0.0	716054.6
R12IPEN	18747	4733.25	21416.55	0.0	2160000.0
S1IPEN	10279	1126.41	4712.93	0.0	85000.0
S2IPEN	13679	2476.94	10717.19	0.0	459600.0
S3IPEN	12333	2710.82	9632.54	0.0	642000.0
S4IPEN	14515	2938.12	8375.12	0.0	225000.0
S5IPEN	13041	3611.68	12752.10	0.0	696240.0
S6IPEN	11859	4093.11	16289.53	0.0	1196388.0
S7IPEN	13352	4170.79	26127.63	0.0	2023644.0
S8IPEN	12052	4172.88	18831.92	0.0	1374108.0
S9IPEN	11012	5146.17	70295.40	0.0	7200000.0
S10IPEN	14235	3100.81	11818.90	0.0	516000.0
S11IPEN	13080	3978.65	13743.83	0.0	384477.6
S12IPEN	11620	4540.13	25114.23	0.0	2160000.0
R1IFPEN	12652	0.18	0.85	0.0	9.0
R2IFPEN	19642	0.34	0.89	0.0	9.0
R3IFPEN	17991	0.37	0.91	0.0	9.0
R4IFPEN	21384	0.41	1.02	0.0	9.0
R5IFPEN	19579	0.42	0.92	0.0	9.0
R6IFPEN	18165	0.39	0.73	0.0	9.0
R7IFPEN	20129	0.36	0.80	0.0	9.0
R8IFPEN	18469	0.36	0.76	0.0	9.0
R9IFPEN	17217	0.37	0.80	0.0	9.0
R10IFPEN	22034	0.40	1.29	0.0	9.0
R11IFPEN	20554	0.34	0.95	0.0	9.0
R12IFPEN	18747	0.38	1.04	0.0	9.0
S1IFPEN	12652	1.66	3.16	0.0	9.0
S2IFPEN	19642	2.66	3.61	0.0	9.0
S3IFPEN	17991	2.75	3.63	0.0	9.0
S4IFPEN	21384	2.84	3.67	0.0	9.0
S5IFPEN	19579	2.93	3.67	0.0	9.0

S6IFPEN	18165	3.01	3.69	0.0	9.0
S7IFPEN	20129	2.91	3.69	0.0	9.0
S8IFPEN	18469	3.00	3.71	0.0	9.0
S9IFPEN	17217	3.10	3.74	0.0	9.0
S10IFPEN	22034	3.09	3.80	0.0	9.0
S11IFPEN	20554	3.11	3.78	0.0	9.0
S12IFPEN	18747	3.27	3.81	0.0	9.0
R1IANN	12652	103.87	1642.20	0.0	80000.0
R2IANN	19642	200.89	3944.60	0.0	480800.0
R3IANN	17991	286.63	6780.83	0.0	732000.0
R4IANN	21384	291.63	3578.01	0.0	199536.2
R5IANN	19579	395.63	6663.53	0.0	600000.0
R6IANN	18165	396.40	5307.74	0.0	312000.0
R7IANN	20129	499.84	16188.99	0.0	2160000.0
R8IANN	18469	645.99	9782.16	0.0	817224.0
R9IANN	17217	633.61	15329.17	0.0	1860000.0
R10IANN	22034	536.09	10270.82	0.0	1200000.0
R11IANN	20554	468.23	8330.76	0.0	678080.0
R12IANN	18747	632.79	11815.76	0.0	1000008.0
S1IANN	10279	106.13	1752.56	0.0	80000.0
S2IANN	13673	164.48	2047.04	0.0	114000.0
S3IANN	12333	241.49	4651.96	0.0	277800.0
S4IANN	14515	205.22	2797.09	0.0	184044.6
S5IANN	13041	253.09	3591.18	0.0	204000.0
S6IANN	11859	326.94	5173.00	0.0	312000.0
S7IANN	13352	446.19	19078.66	0.0	2160000.0
S8IANN	12052	530.72	8271.17	0.0	468000.0
S9IANN	11012	426.41	5492.69	0.0	408000.0
S10IANN	14235	373.33	5552.19	0.0	396000.0
S11IANN	13080	321.49	6387.72	0.0	492000.0
S12IANN	11620	441.99	8518.88	0.0	599335.8
R1IFANN	12652	0.09	0.80	0.0	9.0
R2IFANN	19642	0.13	0.82	0.0	9.0
R3IFANN	17991	0.13	0.81	0.0	9.0
R4IFANN	21384	0.16	0.94	0.0	9.0
R5IFANN	19579	0.13	0.82	0.0	9.0
R6IFANN	18165	0.11	0.58	0.0	9.0
R7IFANN	20129	0.12	0.69	0.0	9.0
R8IFANN	18469	0.12	0.64	0.0	9.0
R9IFANN	17217	0.13	0.69	0.0	9.0
R10IFANN	22034	0.25	1.27	0.0	9.0
R11IFANN	20554	0.14	0.87	0.0	9.0
R12IFANN	18747	0.17	0.98	0.0	9.0
S1IFANN	12652	1.58	3.18	0.0	9.0
S2IFANN	19642	2.52	3.69	0.0	9.0
S3IFANN	17991	2.60	3.72	0.0	9.0
S4IFANN	21384	2.69	3.76	0.0	9.0
S5IFANN	19579	2.75	3.77	0.0	9.0
S6IFANN	18165	2.84	3.79	0.0	9.0
S7IFANN	20129	2.77	3.78	0.0	9.0
S8IFANN	18469	2.85	3.80	0.0	9.0
S9IFANN	17217	2.96	3.83	0.0	9.0
S10IFANN	22034	3.01	3.86	0.0	9.0
S11IFANN	20554	3.01	3.85	0.0	9.0
S12IFANN	18747	3.15	3.89	0.0	9.0

### Categorical Variable Codes

Value	R1IFPENA	R2IFPENA	R3IFPENA	R4IFPENA	R5IFPENA	R6IFPENA	R7IFPENA
0.No income	11235	14549	12682	15033	13220	12112	14175
1.No imputations	1126	4070	4199	4789	4926	4640	4556
2.Some imputation	196	889	984	1355	1296	1368	1309
9.No Fin Resp	95	134	126	207	137	45	89

Value	R8IFPENA	R9IFPENA	R10IFPENA	R11IFPENA	R12IFPENA
0.No income	12787	11817	16800	15249	13514
1.No imputations	4445	4266	3750	4115	4015
2.Some imputation	1172	1059	1066	1019	1019
9.No Fin Resp	65	75	418	171	199

Value	S1IFPENA	S2IFPENA	S3IFPENA	S4IFPENA	S5IFPENA	S6IFPENA	S7IFPENA
0.No income	9079	10359	9016	10633	9261	8309	9888
1.No imputations	947	2622	2606	2876	2859	2688	2626
2.Some imputation	158	588	625	821	828	826	761
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	36	77

Value	S8IFPENA	S9IFPENA	S10IFPENA	S11IFPENA	S12IFPENA
0.No income	8741	7922	11209	10169	8820
1.No imputations	2560	2416	2084	2223	2119
2.Some imputation	699	612	615	545	521
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

Value	R1IFPEN	R2IFPEN	R3IFPEN	R4IFPEN	R5IFPEN	R6IFPEN	R7IFPEN
0.No income	11340	14844	13001	15419	13581	12523	14627
1.No imputations	1041	3873	4124	4673	4812	4486	4415
2.Some imputation	176	791	740	1085	1049	1111	998
9.No Fin Resp	95	134	126	207	137	45	89

Value	R8IFPEN	R9IFPEN	R10IFPEN	R11IFPEN	R12IFPEN
0.No income	13269	12314	17386	15721	14000
1.No imputations	4251	4043	3498	3888	3792
2.Some imputation	884	785	732	774	756
9.No Fin Resp	65	75	418	171	199

Value	S1IFPEN	S2IFPEN	S3IFPEN	S4IFPEN	S5IFPEN	S6IFPEN	S7IFPEN
0.No income	9157	10535	9223	10847	9459	8544	10131
1.No imputations	881	2514	2571	2813	2810	2610	2550
2.Some imputation	146	520	453	670	679	669	594
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	36	77

Value	S8IFPEN	S9IFPEN	S10IFPEN	S11IFPEN	S12IFPEN
0.No income	9022	8194	11552	10421	9063
1.No imputations	2441	2286	1922	2097	2007
2.Some imputation	537	470	434	419	390
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

Value	R1IFANN	R2IFANN	R3IFANN	R4IFANN	R5IFANN	R6IFANN	R7IFANN
0.No income	12386	18792	17128	20209	18539	17134	19048
1.No imputations	85	88	343	432	407	430	446
2.Some imputation	86	628	394	536	496	556	546
9.No Fin Resp	95	134	126	207	137	45	89

Value	R8IFANN	R9IFANN	R10IFANN	R11IFANN	R12IFANN
0.No income	17368	16127	20520	19413	17599
1.No imputations	524	530	524	527	498
2.Some imputation	512	485	572	443	451
9.No Fin Resp	65	75	418	171	199

Value	S1IFANN	S2IFANN	S3IFANN	S4IFANN	S5IFANN	S6IFANN	S7IFANN
0.No income	10053	13109	11820	13795	12452	11271	12773
1.No imputations	66	70	181	227	205	218	214
2.Some imputation	65	390	246	308	291	334	288
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	36	77

Value	S8IFANN	S9IFANN	S10IFANN	S11IFANN	S12IFANN
0.No income	11444	10427	13326	12470	11011
1.No imputations	268	260	275	242	220
2.Some imputation	288	263	307	225	229
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.



The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

RwIPENA is the sum of the Respondent's income from all pensions and annuities. RwIPEN is the Respondent's income from all pensions. RwiANN is the Respondent's income from all annuities. RwiFPENA is a flag that indicates whether any components are imputed. RwiFPEN and RwiFANN are flags that indicate whether any components are imputed in the separate measures.

SwIPENA is the sum of the spouse's income from all pensions and annuities. SwIPEN is the spouse's income from all pensions. SwiANN is the spouse's income from all annuities. SwiFPENA is a flag that indicates whether any components are imputed. SwiFPEN and SwiFANN are flags that indicate whether any components are imputed in the separate measures.

Pension amounts are obtained separately for the Financial Respondent and spouse in all waves. In Wave 1, there is one annual amount for all pension income. From Wave 2 forward, up to 3 monthly amounts can be reported for pensions. The month the Respondent or spouse first received the pension is asked for the first 2 pensions. Annuity income questions are asked in the same way as is done for pensions.

Beginning in Wave 2, the start month is checked for the first 2 pensions or annuities, and the appropriate number of months are used to calculate yearly income. For the third monthly amount reported, no start month is available beginning in Wave 2H, and the monthly amount is multiplied by 12 months.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in Wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, R2iFANN3 and S2iFANN3 are set to .Q to indicate that the corresponding income components are not available in Wave 2A.

Users should note a few outliers who required further examination:

1. HHIDPN: 10013010 reported receiving a (monthly) first pension (LQ220\_1) of \$5,000,000 in Wave 9. Multiplying this amount by 12 months results in \$60,000,000 annually from this pension alone. The accuracy of this amount has been confirmed by HRS.
2. HHIDPN: 79230030 reported receiving a (monthly) first pension (LQ246\_1) of \$600,000 in Wave 9. Multiplying this amount by 12 months results in \$7,200,000 annually from this pension alone. HRS has stated that the reported amount

is a lump sum. However, examination of other questions suggest that this pension started in 2003 (LQ257\_1). Therefore, we have decided to consider this a monthly amount, which again will result in the large annual total stated above.

3. HHIDPN=33242020 reported a monthly first pension amount of \$450,000 in Wave 10. Since s/he was missing the beginning month and year, s/he was assumed to have received it for 12 months. This resulted in an annual first pension amount of \$5,400,000.

4. HHIDPN=60278020 reported a total monthly amount of \$100,000 from a third or subsequent annuity in Wave 10. The beginning month and year were not collected, so it was assumed they were collected for 12 months. This resulted in an annual amount of \$1,200,000.

5. HHIDPN: 145489010 reported a monthly second annuity amount (OQ278\_2) of \$48,492 in Wave 12. Since s/he reported receiving it for 12 months, this resulted in an annual amount of \$581,904.

6. HHIDPN: 500044010 reported a monthly third annuity amount (OQ290) of \$30,000 in Wave 12. Since s/he reported receiving it for 12 months, this resulted in an annual amount of \$360,000.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, income is reported as the total amount received in 1991 from all pensions. Pension income is reported separately for Respondent and spouse. From Wave 2 forward, monthly income from up to 2 pensions are asked about individually, and monthly income from any additional pensions are reported as a 3rd amount. These three amounts are reported separately for Respondent and spouse. Also, beginning in Wave 2, the month the Respondent or spouse first received the pension is asked for the first two pensions. The same is true for annuities.

Beginning in Wave 2, the start month is checked for the first 2 pensions or annuities, and the appropriate number of months are used to calculate yearly income. For the third monthly amount reported, no start month is available beginning in Wave 2H, and the monthly amount is multiplied by 12 months.

Beginning in Wave 3H, if the Respondent refuses or does not know the amount received last month from the first 2 pensions and annuities, a series of unfolding bracket questions are asked. The bracket amounts and entry points are the same across waves. In Waves 1, 2, and 3A, no unfolding bracket questions are asked. Beginning in Wave 6, bracket questions are asked for the third pension and annuity.

Beginning with Wave 10, those who report receiving \$0 in the last month for their first or second annuities are asked if they received any income in the last year, and the amount in total that they received.

The income questions in Wave 2A are very different from other waves. Most distinctive are the "regular income" for Respondent and spouse and "other household income". After standard questions about Social Security income, SSI and food stamps, other income is asked about in a general way. If other income is present, Respondents are asked to specify the source of income. In other waves, most income types are asked specifically (e.g., Do you receive pension income?).

In Wave 2A, Financial Respondents are asked the following questions about their own income then their spouse's:

a) "Do you receive any (other) regular income payments; for example, from retirement pensions, Veterans' Benefits, annuities, payments from an IRA account, or anything like that?"

b) "Please think about the largest (other) regular income you receive. What type of income is that?"

[IWER: PROBE WITH CATEGORIES ONLY IF R NEEDS HELP]

## 1.VETERANS BENEFITS

## 2.RETIREMENT OR OTHER PENSIONS

## 3.ANNUITY

## 4.IRA DISTRIBUTION

## 5.STOCKS AND BONDS

## 7.OTHER

## 8.DK

## 9.RF

This set of questions is repeated twice so that Respondents can report up to 3 current other regular incomes. Then they are asked:

a) "Did you receive any other regular income in [last calendar year] that you no longer receive?"

b) "What type of income was that?"

(Same categories as above)

So there are a total of 4 other regular incomes that can be reported. Categories may be specified more than once, and there are up to 3 different instances of pension income and up to 2 different reports of annuity income.

If income is received, Financial Respondents are then asked questions that serve to identify the frequency (was that paid to you monthly?), amount received (how much did you receive last [month/period/year] from that?), and when payments were stopped (what month did you stop receiving that?). There are no unfolding brackets for income in Wave 2A.

Beginning in Wave 10, if a Respondent states s/he is currently receiving an annuity and that the amount received last month was zero, s/he is asked if any income was received last year and the total amount received last year. If provided, we apply the total amount received last year as the annual amount from the LCY and also use it to estimate a monthly amount.

An examination of the pension income (RwIPEN) variables in Version O showed markedly lower average pension income in Wave 11 compared to Wave 10. After a thorough analysis, we have concluded that this is largely due to the introduction of a new Pension Section (J2) in the 2012 questionnaire, which precedes and therefore affects some answers in the Assets and Income Section (Q). Because the question about pension income in the Assets and Income Section uses the wording "Not including Social Security or other retirement income you've already told me about," some Financial Respondents did not report pension income they had reported earlier in the Pension Section. This interaction between different sections of the surveys was not intended by the survey designers.

To remedy this problem in the data, beginning in Version P, we incorporate logic in Waves 11 and 12 to pull information about pension income of Financial Respondents from both Section Q and Section J2. We did not change the derivation of pension income for earlier waves, because those did not yet have the Pension Section (J2) that caused the interaction with the pension income questions in Section Q. Pension income for earlier waves continues to be calculated using only information from Section Q. See Appendix C: Combining Pension Income from Section Q (Assets & Income) and Section

J2 (Pension) in the RAND HRS Detailed Imputations File Codebook available on the [HRS website](#) for a detailed description of the methodology that we developed for combining information from the Pension Section (J2) and the Income Section (Q).

Beginning in Version P, we have incorporated logic for Waves 11 and 12 that combines information about pension income from Section Q and Section J2. See Appendix C: Combining Pension Income from Section Q (Assets & Income) and Section J2 (Pension) for a detailed description of the methodology.

## HRS Variables Used

### HRS 1992:

V15714	N25A:WHO RECVD RET P:IND
V15715	N26:RET PN:R1TYPE IN:IND
V15716	N26A RET PEN:R1 AMTI:IND
V15720	N26C:ANNUIT:R1 RECIN:IND
V15724	N27:RET PN:R2TYPE IN:IND
V15725	N27A RET PEN:R2 AMTI:IND
V15729	N27C:ANNUIT:R2 RECIN:IND
V5713	N25:RECV RET PENS-NO:IMP
V5714	N25A:WHO RECVD RET P:IMP
V5715	N26:RET PEN:R1TYPE R:IMP
V5716	N26A:RET PN:R1\$AMT R:IMP
V5717	N26A:RET PN:R1RECVD :IMP
V5720	N26C:ANNUIT:R1\$AMT R:IMP
V5721	N26C:ANNUIT:R1RECVD :IMP
V5724	N27:RET PEN:R2TYPE R:IMP
V5725	N27A:RET PN:R2\$AMT R:IMP
V5726	N27A:RET PN:R2RECVD :IMP
V5729	N27C:ANNUIT:R2\$AMT R:IMP
V5730	N27C:ANNUIT:R2RECVD :IMP

### AHEAD 1993:

B1456	J19. R REG INC: RECEIVE ANY
B1457	J20-1. R REG INC: TYPE-1
B1458	J21-1. R REG INC: PAID PER MONTH-1
B1459	J21b-1. R REG INC: \$ PERIOD-1
B1460	J21c-1. R REG INC: \$ LAST PERIOD-1
B1462	J21e-1. R REG INC: START >2YRS AGO-1
B1463	J21f-1. R REG INC: START MONTH-1
B1473	J26-1. R REG INC: ANY OTHER-1
B1475	J20-2. R REG INC: TYPE-2
B1476	J21-2. R REG INC: PAID PER MONTH-2
B1477	J21b-2. R REG INC: \$ PERIOD-2
B1478	J21c-2. R REG INC: \$ LAST PERIOD-2
B1479	J21d-2. R REG INC: FED INC TAXED-2
B1480	J21e-2. R REG INC: START >2YRS AGO-2
B1481	J21f-2. R REG INC: START MONTH-2
B1482	J21g-2. R REG INC: START YEAR-2
B1491	J26-2. R REG INC: ANY OTHER-2
B1492	J20-3. R REG INC: TYPE-3
B1493	J21-3. R REG INC: PAID PER MONTH-3
B1494	J21b-3. R REG INC: \$ PERIOD-3
B1495	J21c-3. R REG INC: \$ LAST PERIOD-3
B1496	J21d-3. R REG INC: FED INC TAXED-3
B1497	J21e-3. R REG INC: START >2YRS AGO-3
B1498	J21f-3. R REG INC: START MONTH-3
B1499	J21g-3. R REG INC: START YEAR-3
B1508	J27. R REG INC: ANY END 1992/3

B1509	J27a. R REG INC END1992/3: TYPE
B1510	J28. R REG INC END 1992/3: PAID PER MO
B1511	J28a. R REG INC END 1992/3: \$ PERIOD
B1512	J28b. R REG INC END1992/3:\$ LAST PERIOD
B1513	J28c. R REG INC END92/3: LAST MO RECD
B1514	J28d. R REG INC END92/3: LAST YR RECD
B1515	J29. SP REG INC: RECEIVE ANY
B1517	J30-1. SP REG INC: TYPE-1
B1518	J31-1. SP REG INC: PAID PER MONTH-1
B1519	J31b-1. SP REG INC: \$ PERIOD-1
B1520	J31c-1. SP REG INC: \$ LAST PERIOD-1
B1521	J31d-1. SP REG INC: FED INC TAXED-1
B1522	J31e-1. SP REG INC: START >2YRS AGO-1
B1523	J31f-1. SP REG INC: START MONTH-1
B1524	J31g-1. SP REG INC: START YEAR-1
B1533	J36-1. SP REG INC: ANY OTHER-1
B1539	J30-2. SP REG INC: TYPE-2
B1540	J31-2. SP REG INC: PAID PER MONTH-2
B1541	J31b-2. SP REG INC: \$ PERIOD-2
B1542	J31c-2. SP REG INC: \$ LAST PERIOD-2
B1543	J31d-2. SP REG INC: FED INC TAXED-2
B1544	J31e-2. SP REG INC: START >2YRS AGO-2
B1545	J31f-2. SP REG INC: START MONTH-2
B1546	J31g-2. SP REG INC: START YEAR-2
B1555	J36-2. SP REG INC: ANY OTHER-2
B1560	J30-3. SP REG INC: TYPE-3
B1561	J31-3. SP REG INC: PAID PER MONTH-3
B1562	J31b-3. SP REG INC: \$ PERIOD-3
B1563	J31c-3. SP REG INC: \$ LAST PERIOD-3
B1564	J31d-3. SP REG INC: FED INC TAXED-3
B1565	J31e-3. SP REG INC: START >2YRS AGO-3
B1566	J31f-3. SP REG INC: START MONTH-3
B1567	J31g-3. SP REG INC: START YEAR-3
B1576	J37. SP REG INC: ANY END 92/93
B1577	J37a. SP REG INC END 92/93: TYPE
B1578	J37b. SP REG INC END 92/93: LAST MO RECD
B1579	J37b. SP REG INC END 92/93: LAST YR RECD
B1580	J37c. SP REG INC END 92/93: PAID PER MO
B1581	J37d. SP REG INC END 92/93: \$ PERIOD
B1582	J37e. SP REG INC END 92/93: \$ LST PERIOD
HRS 1994:	
W16071	N20. Imputation flag
W16072	N20a. Imputation flag
W16074	N20c. Imputation flag
W16075	N20d. Imputation flag
W16083	N20q. Imputation flag
W16091	N20x1. Imputation flag
W16095	N20aa. Imputation flag
W16103	N20mm. Imputation flag
W16111	N20uu. Imputation flag
W16114	N21. Imputation flag
W16116	N21b. Imputation flag
W16117	N21c. Imputation flag
W16118	N21d. Imputation flag
W16126	N21q. Imputation flag
W16134	N21x1. Imputation flag
W16136	N21y. Imputation flag
W16137	N21z. Imputation flag
W16138	N21aa. Imputation flag

W16146	N21mm. Imputation flag
W16154	N21uu. Imputation flag
W6071	N20.RETIREMENT PENSIONS?
W6072	N20a.WHO RECEIVES PENSIO
W6073	N20b.>1 PENSION?
W6074	N20c.NUMBER PENSIONS
W6075	N20d.AMT LAST MONTH-PENS
W6077	N20f.MONTH START RECEIVI
W6078	N20f.YEAR START RECEIVIN
W6083	N20q.AMT LAST MONTH-PENS
W6085	N20s.MONTH START RECEIVI
W6086	N20s.YEAR START RECEIVIN
W6091	N20x1.AMT LAST MONTH-OTH
W6093	N20y.SP->1 PENSION?
W6094	N20z.SP-NUMBER PENSIONS
W6095	N20aa.SP-AMT LAST MONTH-
W6097	N20cc.SP-MONTH START REC
W6098	N20cc.SP-YEAR START RECE
W6103	N20mm.SP-AMT LAST MONTH-
W6105	N20pp.SP-MONTH START REC
W6106	N20pp.SP-YEAR START RECE
W6111	N20uu.SP-AMT LAST MONTH-
W6114	N21.ANNUITIES?
W6115	N21a.WHO RECEIVES ANNUIT
W6116	N21b.>1 ANNUITY?
W6117	N21c.NUMBER OF ANNUITIES
W6118	N21d.AMT LAST MONTH-ANNU
W6120	N21f.MONTH START RECEIVI
W6121	N21f.YEAR START RECEIVIN
W6126	N21q.AMT LAST MONTH-ANNU
W6128	N21s.MONTH START RECEIVI
W6129	N21s.YEAR START RECEIVIN
W6134	N21x1.AMT LAST MONTH-OTH
W6136	N21y.SP->1 ANNUITY?
W6137	N21z.SP-NUMBER OF ANNUIT
W6138	N21aa.SP-AMT LAST MONTH-
W6140	N21cc.SP-MONTH START REC
W6141	N21cc.SP-YEAR START RECE
W6146	N21mm.SP-AMT LAST MONTH-
W6148	N21pp.SP-MONTH START REC
W6149	N21pp.SP-YEAR START RECE
W6154	N21uu.SP-AMT LAST MONTH-

## AHEAD 1995:

D4191	J30.RET PENSION
D4192	J30A.WHO RECD PENSION
D4193	J30B.>1 PENSION
D4194	J30C.#PENSIONS
D4198	J30D.AMT PENSION-1
D4200	J30F.YEAR START PENSION-1
D4201	J30G.YEAR START PENSION-1
D4213	J30D.2ND (LARGEST) PENSION-2
D4215	J30F.YEAR START PENSION-2
D4216	J30G.MONTH START PENSION-2
D4221	J30U.OTHER PENSIONS
D4226	J31.PENSION SP
D4227	J31A.#PENSIONS SP
D4229	J31C.AMT PENSION SP-1
D4231	J31E.YEAR START PENSION SP-1
D4232	J31F.MONTH START PENSION SP-1

D4238	J31K. 2ND (LARGEST) PENSION SP-2
D4246	J31E.YEAR START PENSION SP-2
D4247	J31F.MONTH START PENSION SP-2
D4253	J31U.OTHER PENSIONS SP
D4266	J33.INCOME ANNUITIES
D4267	J33A.WHO RECD ANNUITY
D4268	J33B.>1 ANNUITY INC
D4269	J33C.# ANNUITIES INC
D4271	J33D.AMT ANNUITY INC-1
D4273	J33F.YEAR START ANNUITY INC-1
D4274	J33G.MONTH START ANNUITY INC-1
D4285	J33D.2ND (LARGEST) ANNUITY INC-2
D4288	J33F.YEAR START ANNUITY INC-2
D4289	J33G.MONTH START ANNUITY INC-2
D4294	J34.OTHER ANNUITIES
D4299	J35.>1 ANNUITIES SPOUSE
D4300	J35A.# ANNUITIES SP
D4302	J35C.AMT ANNUITY INC SP-1
D4304	J35E.YEAR START ANNUITY INC SP-1
D4305	J35E.MONTH START ANNTY
D4315	J35B.2ND (LARGEST) ANNUITY INC SP-2
D4318	J35E.YEAR START ANNUITY INC SP-2
D4319	J35P.MONTH START ANNUITY INC SP-2
D4324	J35U.OTHER ANNUITY INC SP
HRS 1996:	
E4209	J127.RET PENSION
E4210	J128.WHO RECD PENSION
E4211	J129.>1 PENSION
E4212	J130.#PENSIONS
E4214_1	J132.AMT PENSION LAST MONTH
E4214_2	J132.AMT PENSION LAST MONTH
E4215_1	J132A.\$ PENSION LAST MONTH DK-1K
E4215_2	J132A.\$ PENSION LAST MONTH DK-1K
E4216_1	J132B.\$ PENSION LAST MONTH DK-2K
E4216_2	J132B.\$ PENSION LAST MONTH DK-2K
E4217_1	J143C.\$ PENSION LAST MONTH DK-4K
E4217_2	J143C.\$ PENSION LAST MONTH DK-4K
E4218_1	J143D.\$ PENSION LAST MONTH DK-500
E4218_2	J143D.\$ PENSION LAST MONTH DK-500
E4223_1	J137.PENSION START YEAR
E4223_2	J137.PENSION START YEAR
E4224_1	J138.PENSION START MONTH
E4224_2	J138.PENSION START MONTH
E4232	J143.OTHER PENSIONS
E4234	J145.PENSION SP
E4235	J146.#PENSIONS SP
E4237_1	J148.SP AMT PENSION LAST MONTH
E4237_2	J148.SP AMT PENSION LAST MONTH
E4238_1	J148A.\$ SP PENSION LAST MONTH DK-1K
E4238_2	J148A.\$ SP PENSION LAST MONTH DK-1K
E4239_1	J148B.\$ SP PENSION LAST MONTH DK-2K
E4239_2	J148B.\$ SP PENSION LAST MONTH DK-2K
E4240_1	J148C.\$ SP PENSION LAST MONTH DK-4K
E4240_2	J148C.\$ SP PENSION LAST MONTH DK-4K
E4241_1	J148D.\$ SP PENSION LAST MONTH DK-500
E4241_2	J148D.\$ SP PENSION LAST MONTH DK-500
E4246_1	J153.SP PENSION START YEAR
E4246_2	J153.SP PENSION START YEAR
E4247_1	J153.SP PENSION START MONTH

E4247_2	J153.SP PENSION START MONTH
E4258	J159.OTHER PENSIONS SP
E4263	J163.INCOME ANNUITIES
E4264	J164.WHO RECD ANNUITY
E4265	J165.>1 ANNUITY INC
E4266	J166.# ANNUITIES INC
E4269_1	J168.AMT ANNUITY INC
E4269_2	J168.AMT ANNUITY INC
E4270_1	J168A.\$ ANNUITY INC DK-1K
E4270_2	J168A.\$ ANNUITY INC DK-1K
E4271_1	J168B.\$ ANNUITY INC DK-2K
E4271_2	J168B.\$ ANNUITY INC DK-2K
E4272_1	J168C.\$ ANNUITY INC DK-4K
E4272_2	J168C.\$ ANNUITY INC DK-4K
E4273_1	J168D.\$ ANNUITY INC DK-500
E4273_2	J168D.\$ ANNUITY INC DK-500
E4275_1	J170.ANNUITY INC START YEAR
E4275_2	J170.ANNUITY INC START YEAR
E4276_1	J171.ANNUITY INC START MONTH
E4276_2	J171.ANNUITY INC START MONTH
E4291	J176.OTHER ANNUITIES
E4295	J178.>1 ANNUITIES SPOUSE
E4296	J179.# ANNUITIES SP
E4298_1	J181.SP AMT ANNUITY INC
E4298_2	J181.SP AMT ANNUITY INC
E4299_1	J181A.\$ SP ANNUITY INC DK-1K
E4299_2	J181A.\$ SP ANNUITY INC DK-1K
E4300_1	J181B.\$ SP ANNUITY INC DK-2K
E4300_2	J181B.\$ SP ANNUITY INC DK-2K
E4301_1	J181C.\$ SP ANNUITY INC DK-4K
E4301_2	J181C.\$ SP ANNUITY INC DK-4K
E4302_1	J181D.\$ SP ANNUITY INC DK-500
E4302_2	J181D.\$ SP ANNUITY INC DK-500
E4304_1	J183.SP ANNUITY INC START YEAR
E4304_2	J183.SP ANNUITY INC START YEAR
E4305_1	J184.SP ANNTY START MONTH
E4305_2	J184.SP ANNTY START MONTH
E4320	J188A.OTHER ANNUITY INC SP
HRS 1998:	
F4969	J127.RET PENSION
F4970	J128.WHO RECD PENSION
F4971	J129.>1 PENSION
F4972	J130.#PENSIONS
F4974_1	J132.AMT PENSION LAST MONTH
F4974_2	J132.AMT PENSION LAST MONTH
F4975_1	J132A.DK-1K
F4975_2	J132A.DK-1K
F4976_1	J132B.DK-2K
F4976_2	J132B.DK-2K
F4977_1	J132C.DK-4K
F4977_2	J132C.DK-4K
F4978_1	J132D.DK-500
F4978_2	J132D.DK-500
F4983_1	J137.PENSION START YEAR
F4983_2	J137.PENSION START YEAR
F4984_1	J138.PENSION START MONTH
F4984_2	J138.PENSION START MONTH
F4992	J143.OTHER PENSIONS
F4994	J145.PENSION SP



F4995	J146.#PENSIONS SP
F4996_1	J147.SP PENSION LOOP
F4996_2	J147.SP PENSION LOOP
F4998_1	J148A.DK-1K
F4998_2	J148A.DK-1K
F4999_1	J148B.DK-2K
F4999_2	J148B.DK-2K
F5000_1	J148C.DK-4K
F5000_2	J148C.DK-4K
F5001_1	J148D.DK-500
F5001_2	J148D.DK-500
F5006_1	J153.PENSION START YEAR
F5006_2	J153.PENSION START YEAR
F5007_1	J153.PENSION START MONTH
F5007_2	J153.PENSION START MONTH
F5018	J159.OTHER PENSIONS SP
F5023	J163.INCOME ANNUITIES
F5024	J164.WHO RECD ANNUITY
F5025	J165.>1 ANNUITY INC
F5026	J166.# ANNUITIES INC
F5029_1	J168.AMT ANNUITY INC
F5029_2	J168.AMT ANNUITY INC
F5030_1	J168A.DK-1K
F5030_2	J168A.DK-1K
F5031_1	J168B.DK-2K
F5031_2	J168B.DK-2K
F5032_1	J168C.DK-4K
F5032_2	J168C.DK-4K
F5033_1	J168D.DK-500
F5033_2	J168D.DK-500
F5035_1	J170.ANNUITY INC START YEAR
F5035_2	J170.ANNUITY INC START YEAR
F5036_1	J171.ANNUITY INC START MONTH
F5036_2	J171.ANNUITY INC START MONTH
F5051	J176.OTHER ANNUITIES
F5055	J178.>1 ANNUITIES SPOUSE
F5056	J179.# ANNUITIES SP
F5058_1	J181.AMT ANNUITY INC SP
F5058_2	J181.AMT ANNUITY INC SP
F5059_1	J181A.DK-1K
F5059_2	J181A.DK-1K
F5060_1	J181B.DK-2K
F5060_2	J181B.DK-2K
F5061_1	J181C.DK-4K
F5061_2	J181C.DK-4K
F5062_1	J181D.DK-500
F5062_2	J181D.DK-500
F5064_1	J183.ANNUITY INC SP START YEAR
F5064_2	J183.ANNUITY INC SP START YEAR
F5065_1	J184.ANNTY START MONTH
F5065_2	J184.ANNTY START MONTH
F5079	J188A.OTHER ANNUITY INC SP
HRS 2000:	
G5424	J127.RET PENSION
G5425	J128.WHO RECD PENSION
G5426	J129.>1 PENSION
G5427	J130.#PENSIONS
G5429_1	J132.AMT PENSION LAST MONTH
G5429_2	J132.AMT PENSION LAST MONTH

G5430_1	J132A.DK-1K
G5430_2	J132A.DK-1K
G5431_1	J132B.DK-2K
G5431_2	J132B.DK-2K
G5432_1	J132C.DK-4K
G5432_2	J132C.DK-4K
G5433_1	J132D.DK-500
G5433_2	J132D.DK-500
G5438_1	J137.PENSION START YEAR
G5438_2	J137.PENSION START YEAR
G5439_1	J138.PENSION START MONTH
G5439_2	J138.PENSION START MONTH
G5447	J143.OTHER PENSIONS
G5449	J145.PENSION SP
G5450	J146.#PENSIONS SP
G5453_1	J148A.DK-1K
G5453_2	J148A.DK-1K
G5454_1	J148B.DK-2K
G5454_2	J148B.DK-2K
G5455_1	J148C.DK-4K
G5455_2	J148C.DK-4K
G5456_1	J148D.DK-500
G5456_2	J148D.DK-500
G5461_1	J153.PENSION START YEAR
G5461_2	J153.PENSION START YEAR
G5462_1	J153Y1.PENSION START MONTH
G5462_2	J153Y1.PENSION START MONTH
G5473	J159.OTHER PENSIONS SP
G5478	J163.INCOME ANNUITIES
G5479	J164.WHO RECD ANNUITY
G5480	J165.>1 ANNUITY INC
G5481	J166.# ANNUITIES INC
G5484_1	J168.AMT ANNUITY INC
G5484_2	J168.AMT ANNUITY INC
G5485_1	J168A.DK-1K
G5485_2	J168A.DK-1K
G5486_1	J168B.DK-2K
G5486_2	J168B.DK-2K
G5487_1	J168C.DK-4K
G5487_2	J168C.DK-4K
G5488_1	J168D.DK-500
G5488_2	J168D.DK-500
G5490_1	J170.ANNUITY INC START YEAR
G5490_2	J170.ANNUITY INC START YEAR
G5491_1	J171.ANNUITY INC START MONTH
G5491_2	J171.ANNUITY INC START MONTH
G5506	J176.OTHER ANNUITIES
G5510	J178.>1 ANNUITIES SPOUSE
G5511	J179.# ANNUITIES SP
G5513_1	J181.AMT ANNUITY INC SP
G5513_2	J181.AMT ANNUITY INC SP
G5514_1	J181A.DK-1K
G5514_2	J181A.DK-1K
G5515_1	J181B.DK-2K
G5515_2	J181B.DK-2K
G5516_1	J181C.DK-4K
G5516_2	J181C.DK-4K
G5517_1	J181D.DK-500
G5517_2	J181D.DK-500

G5519_1	J183.ANNUITY INC SP START YEAR
G5519_2	J183.ANNUITY INC SP START YEAR
G5520_1	J184.ANNTY START MONTH
G5520_2	J184.ANNTY START MONTH
G5534	J188A.OTHER ANNUITY INC SP
HRS 2002:	
HQ215	PENSION RETIREMENT INCOME
HQ216	WHO REC PENSION RETIREMENT INC
HQ217	R INCOME FR MORE THAN ONE PENSION
HQ218	NUMBER OF PENSIONS R RECEIVED
HQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
HQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
HQ221_1	R AMT RECV FROM PENSION - MIN -1
HQ221_2	R AMT RECV FROM PENSION - MIN -2
HQ222_1	R AMT RECV FROM PENSION - MAX -1
HQ222_2	R AMT RECV FROM PENSION - MAX -2
HQ223_1	R AMT RECV FROM PENSION - RESULT -1
HQ223_2	R AMT RECV FROM PENSION - RESULT -2
HQ231_1	R YEAR PENSION STARTED -1
HQ231_2	R YEAR PENSION STARTED -2
HQ232_1	R MONTH PENSION STARTED -1
HQ232_2	R MONTH PENSION STARTED -2
HQ238	OTHER PENSIONS
HQ243	SP PENSION
HQ244	SP NUMBER OF PENSIONS
HQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
HQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
HQ247_1	SP AMT RECV FROM PENSION - MIN -1
HQ247_2	SP AMT RECV FROM PENSION - MIN -2
HQ248_1	SP AMT RECV FROM PENSION - MAX -1
HQ248_2	SP AMT RECV FROM PENSION - MAX -2
HQ249_1	SP AMT RECV FROM PENSION - RESULT -1
HQ249_2	SP AMT RECV FROM PENSION - RESULT -2
HQ257_1	SP YEAR PENSION STARTED -1
HQ257_2	SP YEAR PENSION STARTED -2
HQ258_1	SP MONTH PENSION STARTED -1
HQ258_2	SP MONTH PENSION STARTED -2
HQ264	SP ALL OTH PENS AMT REC - LAST MONTH
HQ273	R OR SP INCOME FROM ANNUITIES
HQ274	WHO RECEIVED INC FROM ANNUITIES
HQ275	R INCOME FROM MORE THAN ONE ANNUITIES
HQ276	R NUMBER OF ANNUITIES INCOME
HQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
HQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
HQ279_1	R AMT FROM ANNUITY - MIN -1
HQ279_2	R AMT FROM ANNUITY - MIN -2
HQ280_1	R AMT FROM ANNUITY - MAX -1
HQ280_2	R AMT FROM ANNUITY - MAX -2
HQ281_1	R AMT FROM ANNUITY - RESULT -1
HQ281_2	R AMT FROM ANNUITY - RESULT -2
HQ283_1	R YEAR ANNUITY PMT STARTED -1
HQ283_2	R YEAR ANNUITY PMT STARTED -2
HQ284_1	R MONTH ANNUITY PMT STARTED -1
HQ284_2	R MONTH ANNUITY PMT STARTED -2
HQ290	OTHER ANNUITIES
HQ295	>1 ANNUITIES SP
HQ296	NUMBER OF ANNUITIES SP
HQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
HQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2

HQ299_1	SP AMT FROM ANNUITY - MIN -1
HQ299_2	SP AMT FROM ANNUITY - MIN -2
HQ300_1	SP AMT FROM ANNUITY - MAX -1
HQ300_2	SP AMT FROM ANNUITY - MAX -2
HQ301_1	SP AMT FROM ANNUITY - RESULT -1
HQ301_2	SP AMT FROM ANNUITY - RESULT -2
HQ303_1	SP YEAR ANNUITY PMT STARTED -1
HQ303_2	SP YEAR ANNUITY PMT STARTED -2
HQ304_1	SP MONTH ANNUITY PMT STARTED -1
HQ304_2	SP MONTH ANNUITY PMT STARTED -2
HQ310	SP OTH ANNUIT PMT AMT LAST MONTH
HRS 2004:	
JQ215	PENSION RETIREMENT INCOME
JQ216	WHO REC PENSION RETIREMENT INC
JQ217	R INCOME FR MORE THAN ONE PENSION
JQ218	NUMBER OF PENSIONS R RECEIVED
JQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
JQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
JQ221_1	R AMT RECV FROM PENSION - MIN -1
JQ221_2	R AMT RECV FROM PENSION - MIN -2
JQ222_1	R AMT RECV FROM PENSION - MAX -1
JQ222_2	R AMT RECV FROM PENSION - MAX -2
JQ223_1	R AMT RECV FROM PENSION - RESULT -1
JQ223_2	R AMT RECV FROM PENSION - RESULT -2
JQ231_1	R YEAR PENSION STARTED -1
JQ231_2	R YEAR PENSION STARTED -2
JQ232_1	R MONTH PENSION STARTED -1
JQ232_2	R MONTH PENSION STARTED -2
JQ238	OTHER PENSIONS
JQ243	SP PENSION
JQ244	SP NUMBER OF PENSIONS
JQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
JQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
JQ247_1	SP AMT RECV FROM PENSION - MIN -1
JQ247_2	SP AMT RECV FROM PENSION - MIN -2
JQ248_1	SP AMT RECV FROM PENSION - MAX -1
JQ248_2	SP AMT RECV FROM PENSION - MAX -2
JQ249_1	SP AMT RECV FROM PENSION - RESULT -1
JQ249_2	SP AMT RECV FROM PENSION - RESULT -2
JQ257_1	SP YEAR PENSION STARTED -1
JQ257_2	SP YEAR PENSION STARTED -2
JQ258_1	SP MONTH PENSION STARTED -1
JQ258_2	SP MONTH PENSION STARTED -2
JQ264	SP ALL OTH PENS AMT REC - LAST MONTH
JQ273	R OR SP INCOME FROM ANNUITIES
JQ274	WHO RECEIVED INC FROM ANNUITIES
JQ275	R INCOME FROM MORE THAN ONE ANNUITIES
JQ276	R NUMBER OF ANNUITIES INCOME
JQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
JQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
JQ279_1	R AMT FROM ANNUITY - MIN -1
JQ279_2	R AMT FROM ANNUITY - MIN -2
JQ280_1	R AMT FROM ANNUITY - MAX -1
JQ280_2	R AMT FROM ANNUITY - MAX -2
JQ281_1	R AMT FROM ANNUITY - RESULT -1
JQ281_2	R AMT FROM ANNUITY - RESULT -2
JQ283_1	R YEAR ANNUITY PMT STARTED -1
JQ283_2	R YEAR ANNUITY PMT STARTED -2
JQ284_1	R MONTH ANNUITY PMT STARTED -1

JQ284_2	R MONTH ANNUITY PMT STARTED -2
JQ290	OTHER ANNUITIES
JQ295	MORE THAN ONE ANNUITY SP
JQ296	NUMBER OF ANNUITIES SP
JQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
JQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
JQ299_1	SP AMT FROM ANNUITY - MIN -1
JQ299_2	SP AMT FROM ANNUITY - MIN -2
JQ300_1	SP AMT FROM ANNUITY - MAX -1
JQ300_2	SP AMT FROM ANNUITY - MAX -2
JQ301_1	SP AMT FROM ANNUITY - RESULT -1
JQ301_2	SP AMT FROM ANNUITY - RESULT -2
JQ303_1	SP YEAR ANNUITY PMT STARTED -1
JQ303_2	SP YEAR ANNUITY PMT STARTED -2
JQ304_1	SP MONTH ANNUITY PMT STARTED -1
JQ304_2	SP MONTH ANNUITY PMT STARTED -2
JQ310	SP OTH ANNUIT PMT AMT LAST MONTH
HRS 2006:	
KQ215	PENSION RETIREMENT INCOME
KQ216	WHO REC PENSION RETIREMENT INC
KQ217	R INCOME FR MORE THAN ONE PENSION
KQ218	NUMBER OF PENSIONS R RECEIVED
KQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
KQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
KQ221_1	R AMT RECV FROM PENSION - MIN -1
KQ221_2	R AMT RECV FROM PENSION - MIN -2
KQ222_1	R AMT RECV FROM PENSION - MAX -1
KQ222_2	R AMT RECV FROM PENSION - MAX -2
KQ223_1	R AMT RECV FROM PENSION - RESULT -1
KQ223_2	R AMT RECV FROM PENSION - RESULT -2
KQ231_1	R YEAR PENSION STARTED -1
KQ231_2	R YEAR PENSION STARTED -2
KQ232_1	R MONTH PENSION STARTED -1
KQ232_2	R MONTH PENSION STARTED -2
KQ238	OTHER PENSIONS
KQ243	SP PENSION
KQ244	SP NUMBER OF PENSIONS
KQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
KQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
KQ247_1	SP AMT RECV FROM PENSION - MIN -1
KQ247_2	SP AMT RECV FROM PENSION - MIN -2
KQ248_1	SP AMT RECV FROM PENSION - MAX -1
KQ248_2	SP AMT RECV FROM PENSION - MAX -2
KQ249_1	SP AMT RECV FROM PENSION - RESULT -1
KQ249_2	SP AMT RECV FROM PENSION - RESULT -2
KQ257_1	SP YEAR PENSION STARTED -1
KQ257_2	SP YEAR PENSION STARTED -2
KQ258_1	SP MONTH PENSION STARTED -1
KQ258_2	SP MONTH PENSION STARTED -2
KQ264	SP ALL OTH PENS AMT REC - LAST MONTH
KQ273	R OR SP INCOME FROM ANNUITIES
KQ274	WHO RECEIVED INC FROM ANNUITIES
KQ275	R INCOME FROM MORE THAN ONE ANNUITIES
KQ276	R NUMBER OF ANNUITIES INCOME
KQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
KQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
KQ279_1	R AMT FROM ANNUITY - MIN -1
KQ279_2	R AMT FROM ANNUITY - MIN -2
KQ280_1	R AMT FROM ANNUITY - MAX -1

KQ280_2	R AMT FROM ANNUITY - MAX -2
KQ281_1	R AMT FROM ANNUITY - RESULT -1
KQ281_2	R AMT FROM ANNUITY - RESULT -2
KQ283_1	R YEAR ANNUITY PMT STARTED -1
KQ283_2	R YEAR ANNUITY PMT STARTED -2
KQ284_1	R MONTH ANNUITY PMT STARTED -1
KQ284_2	R MONTH ANNUITY PMT STARTED -2
KQ290	OTHER ANNUITIES
KQ295	MORE THAN ONE ANNUITY SP
KQ296	NUMBER OF ANNUITIES SP
KQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
KQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
KQ299_1	SP AMT FROM ANNUITY - MIN -1
KQ299_2	SP AMT FROM ANNUITY - MIN -2
KQ300_1	SP AMT FROM ANNUITY - MAX -1
KQ300_2	SP AMT FROM ANNUITY - MAX -2
KQ301_1	SP AMT FROM ANNUITY - RESULT -1
KQ301_2	SP AMT FROM ANNUITY - RESULT -2
KQ303_1	SP YEAR ANNUITY PMT STARTED -1
KQ303_2	SP YEAR ANNUITY PMT STARTED -2
KQ304_1	SP MONTH ANNUITY PMT STARTED -1
KQ304_2	SP MONTH ANNUITY PMT STARTED -2
KQ310	SP OTH ANNUIT PMT AMT LAST MONTH
HRS 2008:	
LQ215	PENSION RETIREMENT INCOME
LQ216	WHO REC PENSION RETIREMENT INC
LQ217	R INCOME FR MORE THAN ONE PENSION
LQ218	NUMBER OF PENSIONS R RECEIVED
LQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
LQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
LQ221_1	R AMT RECV FROM PENSION - MIN -1
LQ221_2	R AMT RECV FROM PENSION - MIN -2
LQ222_1	R AMT RECV FROM PENSION - MAX -1
LQ222_2	R AMT RECV FROM PENSION - MAX -2
LQ223_1	R AMT RECV FROM PENSION - RESULT -1
LQ223_2	R AMT RECV FROM PENSION - RESULT -2
LQ231_1	R YEAR PENSION STARTED -1
LQ231_2	R YEAR PENSION STARTED -2
LQ232_1	R MONTH PENSION STARTED -1
LQ232_2	R MONTH PENSION STARTED -2
LQ238	OTHER PENSIONS
LQ243	SP PENSION
LQ244	SP NUMBER OF PENSIONS
LQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
LQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
LQ247_1	SP AMT RECV FROM PENSION - MIN -1
LQ247_2	SP AMT RECV FROM PENSION - MIN -2
LQ248_1	SP AMT RECV FROM PENSION - MAX -1
LQ248_2	SP AMT RECV FROM PENSION - MAX -2
LQ249_1	SP AMT RECV FROM PENSION - RESULT -1
LQ249_2	SP AMT RECV FROM PENSION - RESULT -2
LQ257_1	SP YEAR PENSION STARTED -1
LQ257_2	SP YEAR PENSION STARTED -2
LQ258_1	SP MONTH PENSION STARTED -1
LQ258_2	SP MONTH PENSION STARTED -2
LQ264	SP ALL OTH PENS AMT REC - LAST MONTH
LQ273	R OR SP INCOME FROM ANNUITIES
LQ274	WHO RECEIVED INC FROM ANNUITIES
LQ275	R INCOME FROM MORE THAN ONE ANNUITIES

LQ276	R NUMBER OF ANNUITIES INCOME
LQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
LQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
LQ279_1	R AMT FROM ANNUITY - MIN -1
LQ279_2	R AMT FROM ANNUITY - MIN -2
LQ280_1	R AMT FROM ANNUITY - MAX -1
LQ280_2	R AMT FROM ANNUITY - MAX -2
LQ281_1	R AMT FROM ANNUITY - RESULT -1
LQ281_2	R AMT FROM ANNUITY - RESULT -2
LQ283_1	R YEAR ANNUITY PMT STARTED -1
LQ283_2	R YEAR ANNUITY PMT STARTED -2
LQ284_1	R MONTH ANNUITY PMT STARTED -1
LQ284_2	R MONTH ANNUITY PMT STARTED -2
LQ290	OTHER ANNUITIES
LQ295	MORE THAN ONE ANNUITY SP
LQ296	NUMBER OF ANNUITIES SP
LQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
LQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
LQ299_1	SP AMT FROM ANNUITY - MIN -1
LQ299_2	SP AMT FROM ANNUITY - MIN -2
LQ300_1	SP AMT FROM ANNUITY - MAX -1
LQ300_2	SP AMT FROM ANNUITY - MAX -2
LQ301_1	SP AMT FROM ANNUITY - RESULT -1
LQ301_2	SP AMT FROM ANNUITY - RESULT -2
LQ303_1	SP YEAR ANNUITY PMT STARTED -1
LQ303_2	SP YEAR ANNUITY PMT STARTED -2
LQ304_1	SP MONTH ANNUITY PMT STARTED -1
LQ304_2	SP MONTH ANNUITY PMT STARTED -2
LQ310	SP OTH ANNUIT PMT AMT LAST MONTH
HRS 2010:	
MQ215	PENSION RETIREMENT INCOME
MQ216	WHO REC PENSION RETIREMENT INC
MQ217	R INCOME FR MORE THAN ONE PENSION
MQ218	NUMBER OF PENSIONS R RECEIVED
MQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
MQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
MQ221_1	R AMT RECV FROM PENSION - MIN -1
MQ221_2	R AMT RECV FROM PENSION - MIN -2
MQ222_1	R AMT RECV FROM PENSION - MAX -1
MQ222_2	R AMT RECV FROM PENSION - MAX -2
MQ223_1	R AMT RECV FROM PENSION - RESULT -1
MQ223_2	R AMT RECV FROM PENSION - RESULT -2
MQ231_1	R YEAR PENSION STARTED -1
MQ231_2	R YEAR PENSION STARTED -2
MQ232_1	R MONTH PENSION STARTED -1
MQ232_2	R MONTH PENSION STARTED -2
MQ238	OTHER PENSIONS
MQ243	SP PENSION
MQ244	SP NUMBER OF PENSIONS
MQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
MQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
MQ247_1	SP AMT RECV FROM PENSION - MIN -1
MQ247_2	SP AMT RECV FROM PENSION - MIN -2
MQ248_1	SP AMT RECV FROM PENSION - MAX -1
MQ248_2	SP AMT RECV FROM PENSION - MAX -2
MQ249_1	SP AMT RECV FROM PENSION - RESULT -1
MQ249_2	SP AMT RECV FROM PENSION - RESULT -2
MQ257_1	SP YEAR PENSION STARTED -1
MQ257_2	SP YEAR PENSION STARTED -2

MQ258_1	SP MONTH PENSION STARTED -1
MQ258_2	SP MONTH PENSION STARTED -2
MQ264	SP ALL OTH PENS AMT REC - LAST MONTH
MQ273	R OR SP INCOME FROM ANNUITIES
MQ274	WHO RECEIVED INC FROM ANNUITIES
MQ275	R INCOME FROM MORE THAN ONE ANNUITIES
MQ276	R NUMBER OF ANNUITIES INCOME
MQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
MQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
MQ279_1	R AMT FROM ANNUITY - MIN -1
MQ279_2	R AMT FROM ANNUITY - MIN -2
MQ280_1	R AMT FROM ANNUITY - MAX -1
MQ280_2	R AMT FROM ANNUITY - MAX -2
MQ281_1	R AMT FROM ANNUITY - RESULT -1
MQ281_2	R AMT FROM ANNUITY - RESULT -2
MQ283_1	R YEAR ANNUITY PMT STARTED -1
MQ283_2	R YEAR ANNUITY PMT STARTED -2
MQ284_1	R MONTH ANNUITY PMT STARTED -1
MQ284_2	R MONTH ANNUITY PMT STARTED -2
MQ290	OTHER ANNUITIES
MQ295	MORE THAN ONE ANNUITY SP
MQ296	NUMBER OF ANNUITIES SP
MQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
MQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
MQ299_1	SP AMT FROM ANNUITY - MIN -1
MQ299_2	SP AMT FROM ANNUITY - MIN -2
MQ300_1	SP AMT FROM ANNUITY - MAX -1
MQ300_2	SP AMT FROM ANNUITY - MAX -2
MQ301_1	SP AMT FROM ANNUITY - RESULT -1
MQ301_2	SP AMT FROM ANNUITY - RESULT -2
MQ303_1	SP YEAR ANNUITY PMT STARTED -1
MQ303_2	SP YEAR ANNUITY PMT STARTED -2
MQ304_1	SP MONTH ANNUITY PMT STARTED -1
MQ304_2	SP MONTH ANNUITY PMT STARTED -2
MQ310	SP OTH ANNUIT PMT AMT LAST MONTH
MQ524_1	R INCOME FROM ANNUITY - LAST YEAR -1
MQ524_2	R INCOME FROM ANNUITY - LAST YEAR -2
MQ525_1	R AMOUNT FROM ANNUITY - LAST YEAR -1
MQ525_2	R AMOUNT FROM ANNUITY - LAST YEAR -2
MQ526	R INCOME FROM OTHER ANNUITY - LAST YEAR
MQ527	R AMOUNT FROM OTHER ANNUITY - LAST YEAR
MQ528_1	SP INCOME FROM ANNUITY - LAST YEAR -1
MQ529_1	SP AMOUNT FROM ANNUITY - LAST YEAR -1
MQ530	SP INCOME FROM OTHER ANNUITY - LAST YEAR
MQ531	SP AMOUNT FROM OTHER ANNUITY - LAST YR
HRS 2012:	
NJ2W014_1	AGE WHEN BENEFITS STARTED -1_1
NJ2W014_10	AGE WHEN BENEFITS STARTED -1_10
NJ2W014_2	AGE WHEN BENEFITS STARTED -1_2
NJ2W014_3	AGE WHEN BENEFITS STARTED -1_3
NJ2W014_4	AGE WHEN BENEFITS STARTED -1_4
NJ2W014_5	AGE WHEN BENEFITS STARTED -1_5
NJ2W014_6	AGE WHEN BENEFITS STARTED -1_6
NJ2W014_7	AGE WHEN BENEFITS STARTED -1_7
NJ2W014_8	AGE WHEN BENEFITS STARTED -1_8
NJ2W014_9	AGE WHEN BENEFITS STARTED -1_9
NJ2W015_1	AMOUNT OF BENEFITS -1_1
NJ2W015_10	AMOUNT OF BENEFITS -1_10
NJ2W015_2	AMOUNT OF BENEFITS -1_2



NJ2W015_3	AMOUNT OF BENEFITS -1_3
NJ2W015_4	AMOUNT OF BENEFITS -1_4
NJ2W015_5	AMOUNT OF BENEFITS -1_5
NJ2W015_6	AMOUNT OF BENEFITS -1_6
NJ2W015_7	AMOUNT OF BENEFITS -1_7
NJ2W015_8	AMOUNT OF BENEFITS -1_8
NJ2W015_9	AMOUNT OF BENEFITS -1_9
NJ2W016_1	AMOUNT OF BENEFITS PER -1_1
NJ2W016_10	AMOUNT OF BENEFITS PER -1_10
NJ2W016_2	AMOUNT OF BENEFITS PER -1_2
NJ2W016_3	AMOUNT OF BENEFITS PER -1_3
NJ2W016_4	AMOUNT OF BENEFITS PER -1_4
NJ2W016_5	AMOUNT OF BENEFITS PER -1_5
NJ2W016_6	AMOUNT OF BENEFITS PER -1_6
NJ2W016_7	AMOUNT OF BENEFITS PER -1_7
NJ2W016_8	AMOUNT OF BENEFITS PER -1_8
NJ2W016_9	AMOUNT OF BENEFITS PER -1_9
NJ2W086_1	AGE WHEN BENEFITS STARTED MONTHS -1_1
NJ2W086_10	AGE WHEN BENEFITS STARTED MONTHS -1_10
NJ2W086_2	AGE WHEN BENEFITS STARTED MONTHS -1_2
NJ2W086_3	AGE WHEN BENEFITS STARTED MONTHS -1_3
NJ2W086_4	AGE WHEN BENEFITS STARTED MONTHS -1_4
NJ2W086_5	AGE WHEN BENEFITS STARTED MONTHS -1_5
NJ2W086_6	AGE WHEN BENEFITS STARTED MONTHS -1_6
NJ2W086_7	AGE WHEN BENEFITS STARTED MONTHS -1_7
NJ2W086_8	AGE WHEN BENEFITS STARTED MONTHS -1_8
NJ2W086_9	AGE WHEN BENEFITS STARTED MONTHS -1_9
NJ2W108_1	STARTED RECEIVING ANNUITY -1_1
NJ2W108_10	STARTED RECEIVING ANNUITY -1_10
NJ2W108_2	STARTED RECEIVING ANNUITY -1_2
NJ2W108_3	STARTED RECEIVING ANNUITY -1_3
NJ2W108_4	STARTED RECEIVING ANNUITY -1_4
NJ2W108_5	STARTED RECEIVING ANNUITY -1_5
NJ2W108_6	STARTED RECEIVING ANNUITY -1_6
NJ2W108_7	STARTED RECEIVING ANNUITY -1_7
NJ2W108_8	STARTED RECEIVING ANNUITY -1_8
NJ2W108_9	STARTED RECEIVING ANNUITY -1_9
NJ2W426_1	RECEIVING BENEFITS -1_1
NJ2W426_10	RECEIVING BENEFITS -1_10
NJ2W426_2	RECEIVING BENEFITS -1_2
NJ2W426_3	RECEIVING BENEFITS -1_3
NJ2W426_4	RECEIVING BENEFITS -1_4
NJ2W426_5	RECEIVING BENEFITS -1_5
NJ2W426_6	RECEIVING BENEFITS -1_6
NJ2W426_7	RECEIVING BENEFITS -1_7
NJ2W426_8	RECEIVING BENEFITS -1_8
NJ2W426_9	RECEIVING BENEFITS -1_9
NJ2W434_1	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_1
NJ2W434_10	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_10
NJ2W434_2	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_2
NJ2W434_3	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_3
NJ2W434_4	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_4
NJ2W434_5	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_5
NJ2W434_6	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_6
NJ2W434_7	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_7
NJ2W434_8	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_8
NJ2W434_9	PLAN STATUS-RECEIVING REGULAR BENEFITS -1_9
NJ2W440_1	PLAN STATUS-CONVERTED TO ANNUITY -1_1
NJ2W440_10	PLAN STATUS-CONVERTED TO ANNUITY -1_10

NJ2W440_2	PLAN STATUS-CONVERTED TO ANNUITY -1_2
NJ2W440_3	PLAN STATUS-CONVERTED TO ANNUITY -1_3
NJ2W440_4	PLAN STATUS-CONVERTED TO ANNUITY -1_4
NJ2W440_5	PLAN STATUS-CONVERTED TO ANNUITY -1_5
NJ2W440_6	PLAN STATUS-CONVERTED TO ANNUITY -1_6
NJ2W440_7	PLAN STATUS-CONVERTED TO ANNUITY -1_7
NJ2W440_8	PLAN STATUS-CONVERTED TO ANNUITY -1_8
NJ2W440_9	PLAN STATUS-CONVERTED TO ANNUITY -1_9
NQ215	PENSION RETIREMENT INCOME
NQ216	WHO REC PENSION RETIREMENT INC
NQ217	R INCOME FR MORE THAN ONE PENSION
NQ218	NUMBER OF PENSIONS R RECEIVED
NQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
NQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
NQ221_1	R AMT RECV FROM PENSION - MIN -1
NQ221_2	R AMT RECV FROM PENSION - MIN -2
NQ222_1	R AMT RECV FROM PENSION - MAX -1
NQ222_2	R AMT RECV FROM PENSION - MAX -2
NQ223_1	R AMT RECV FROM PENSION - RESULT -1
NQ223_2	R AMT RECV FROM PENSION - RESULT -2
NQ231_1	R YEAR PENSION STARTED -1
NQ231_2	R YEAR PENSION STARTED -2
NQ232_1	R MONTH PENSION STARTED -1
NQ232_2	R MONTH PENSION STARTED -2
NQ238	OTHER PENSIONS
NQ243	SP PENSION
NQ244	SP NUMBER OF PENSIONS
NQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
NQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
NQ247_1	SP AMT RECV FROM PENSION - MIN -1
NQ247_2	SP AMT RECV FROM PENSION - MIN -2
NQ248_1	SP AMT RECV FROM PENSION - MAX -1
NQ248_2	SP AMT RECV FROM PENSION - MAX -2
NQ249_1	SP AMT RECV FROM PENSION - RESULT -1
NQ249_2	SP AMT RECV FROM PENSION - RESULT -2
NQ257_1	SP YEAR PENSION STARTED -1
NQ257_2	SP YEAR PENSION STARTED -2
NQ258_1	SP MONTH PENSION STARTED -1
NQ258_2	SP MONTH PENSION STARTED -2
NQ264	SP ALL OTH PENS AMT REC - LAST MONTH
NQ273	R OR SP INCOME FROM ANNUITIES
NQ274	WHO RECEIVED INC FROM ANNUITIES
NQ275	R INCOME FROM MORE THAN ONE ANNUITY
NQ276	R NUMBER OF ANNUITIES INCOME
NQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
NQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
NQ279_1	R AMT FROM ANNUITY - MIN -1
NQ279_2	R AMT FROM ANNUITY - MIN -2
NQ280_1	R AMT FROM ANNUITY - MAX -1
NQ280_2	R AMT FROM ANNUITY - MAX -2
NQ281_1	R AMT FROM ANNUITY - RESULT -1
NQ281_2	R AMT FROM ANNUITY - RESULT -2
NQ283_1	R YEAR ANNUITY PMT STARTED -1
NQ283_2	R YEAR ANNUITY PMT STARTED -2
NQ284_1	R MONTH ANNUITY PMT STARTED -1
NQ284_2	R MONTH ANNUITY PMT STARTED -2
NQ290	OTHER ANNUITIES
NQ295	MORE THAN ONE ANNUITY SP
NQ296	NUMBER OF ANNUITIES SP

NQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
NQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
NQ299_1	SP AMT FROM ANNUITY - MIN -1
NQ299_2	SP AMT FROM ANNUITY - MIN -2
NQ300_1	SP AMT FROM ANNUITY - MAX -1
NQ300_2	SP AMT FROM ANNUITY - MAX -2
NQ301_1	SP AMT FROM ANNUITY - RESULT -1
NQ301_2	SP AMT FROM ANNUITY - RESULT -2
NQ303_1	SP YEAR ANNUITY PMT STARTED -1
NQ303_2	SP YEAR ANNUITY PMT STARTED -2
NQ304_1	SP MONTH ANNUITY PMT STARTED -1
NQ304_2	SP MONTH ANNUITY PMT STARTED -2
NQ310	SP OTH ANNUIT PMT AMT LAST MONTH
NQ524_1	R INCOME FROM ANNUITY - LAST YEAR -1
NQ524_2	R INCOME FROM ANNUITY - LAST YEAR -2
NQ525_1	R AMOUNT FROM ANNUITY - LAST YEAR -1
NQ525_2	R AMOUNT FROM ANNUITY - LAST YEAR -2
NQ526	R INCOME FROM OTHER ANNUITY - LAST YEAR
NQ527	R AMOUNT FROM OTHER ANNUITY - LAST YEAR
NQ528_1	SP INCOME FROM ANNUITY - LAST YEAR -1
NQ529_1	SP AMOUNT FROM ANNUITY - LAST YEAR -1
NQ530	SP INCOME FROM OTHER ANNUITY - LAST YEAR
NQ531	SP AMOUNT FROM OTHER ANNUITY - LAST YR
HRS 2014:	
OJ2W014_1	AGE WHEN BENEFITS STARTED_1
OJ2W014_10	AGE WHEN BENEFITS STARTED_10
OJ2W014_2	AGE WHEN BENEFITS STARTED_2
OJ2W014_3	AGE WHEN BENEFITS STARTED_3
OJ2W014_4	AGE WHEN BENEFITS STARTED_4
OJ2W014_5	AGE WHEN BENEFITS STARTED_5
OJ2W014_6	AGE WHEN BENEFITS STARTED_6
OJ2W014_7	AGE WHEN BENEFITS STARTED_7
OJ2W014_8	AGE WHEN BENEFITS STARTED_8
OJ2W014_9	AGE WHEN BENEFITS STARTED_9
OJ2W015_1	AMOUNT OF BENEFITS_1
OJ2W015_10	AMOUNT OF BENEFITS_10
OJ2W015_2	AMOUNT OF BENEFITS_2
OJ2W015_3	AMOUNT OF BENEFITS_3
OJ2W015_4	AMOUNT OF BENEFITS_4
OJ2W015_5	AMOUNT OF BENEFITS_5
OJ2W015_6	AMOUNT OF BENEFITS_6
OJ2W015_7	AMOUNT OF BENEFITS_7
OJ2W015_8	AMOUNT OF BENEFITS_8
OJ2W015_9	AMOUNT OF BENEFITS_9
OJ2W016_1	AMOUNT OF BENEFITS PER_1
OJ2W016_10	AMOUNT OF BENEFITS PER_10
OJ2W016_2	AMOUNT OF BENEFITS PER_2
OJ2W016_3	AMOUNT OF BENEFITS PER_3
OJ2W016_4	AMOUNT OF BENEFITS PER_4
OJ2W016_5	AMOUNT OF BENEFITS PER_5
OJ2W016_6	AMOUNT OF BENEFITS PER_6
OJ2W016_7	AMOUNT OF BENEFITS PER_7
OJ2W016_8	AMOUNT OF BENEFITS PER_8
OJ2W016_9	AMOUNT OF BENEFITS PER_9
OJ2W086_1	AGE WHEN BENEFITS STARTED MONTHS_1
OJ2W086_10	AGE WHEN BENEFITS STARTED MONTHS_10
OJ2W086_2	AGE WHEN BENEFITS STARTED MONTHS_2
OJ2W086_3	AGE WHEN BENEFITS STARTED MONTHS_3
OJ2W086_4	AGE WHEN BENEFITS STARTED MONTHS_4

OJ2W086_5	AGE WHEN BENEFITS STARTED MONTHS_5
OJ2W086_6	AGE WHEN BENEFITS STARTED MONTHS_6
OJ2W086_7	AGE WHEN BENEFITS STARTED MONTHS_7
OJ2W086_8	AGE WHEN BENEFITS STARTED MONTHS_8
OJ2W086_9	AGE WHEN BENEFITS STARTED MONTHS_9
OJ2W108_1	STARTED RECEIVING ANNUITY_1
OJ2W108_10	STARTED RECEIVING ANNUITY_10
OJ2W108_2	STARTED RECEIVING ANNUITY_2
OJ2W108_3	STARTED RECEIVING ANNUITY_3
OJ2W108_4	STARTED RECEIVING ANNUITY_4
OJ2W108_5	STARTED RECEIVING ANNUITY_5
OJ2W108_6	STARTED RECEIVING ANNUITY_6
OJ2W108_7	STARTED RECEIVING ANNUITY_7
OJ2W108_8	STARTED RECEIVING ANNUITY_8
OJ2W108_9	STARTED RECEIVING ANNUITY_9
OJ2W426_1	RECEIVING BENEFITS_1
OJ2W426_10	RECEIVING BENEFITS_10
OJ2W426_2	RECEIVING BENEFITS_2
OJ2W426_3	RECEIVING BENEFITS_3
OJ2W426_4	RECEIVING BENEFITS_4
OJ2W426_5	RECEIVING BENEFITS_5
OJ2W426_6	RECEIVING BENEFITS_6
OJ2W426_7	RECEIVING BENEFITS_7
OJ2W426_8	RECEIVING BENEFITS_8
OJ2W426_9	RECEIVING BENEFITS_9
OJ2W434_1	PLAN STATUS - RECEIVING REGULAR BENEFITS_1
OJ2W434_10	PLAN STATUS - RECEIVING REGULAR BENEFITS_10
OJ2W434_2	PLAN STATUS - RECEIVING REGULAR BENEFITS_2
OJ2W434_3	PLAN STATUS - RECEIVING REGULAR BENEFITS_3
OJ2W434_4	PLAN STATUS - RECEIVING REGULAR BENEFITS_4
OJ2W434_5	PLAN STATUS - RECEIVING REGULAR BENEFITS_5
OJ2W434_6	PLAN STATUS - RECEIVING REGULAR BENEFITS_6
OJ2W434_7	PLAN STATUS - RECEIVING REGULAR BENEFITS_7
OJ2W434_8	PLAN STATUS - RECEIVING REGULAR BENEFITS_8
OJ2W434_9	PLAN STATUS - RECEIVING REGULAR BENEFITS_9
OJ2W440_1	PLAN STATUS - CONVERTED TO ANNUITY_1
OJ2W440_10	PLAN STATUS - CONVERTED TO ANNUITY_10
OJ2W440_2	PLAN STATUS - CONVERTED TO ANNUITY_2
OJ2W440_3	PLAN STATUS - CONVERTED TO ANNUITY_3
OJ2W440_4	PLAN STATUS - CONVERTED TO ANNUITY_4
OJ2W440_5	PLAN STATUS - CONVERTED TO ANNUITY_5
OJ2W440_6	PLAN STATUS - CONVERTED TO ANNUITY_6
OJ2W440_7	PLAN STATUS - CONVERTED TO ANNUITY_7
OJ2W440_8	PLAN STATUS - CONVERTED TO ANNUITY_8
OJ2W440_9	PLAN STATUS - CONVERTED TO ANNUITY_9
OQ215	PENSION RETIREMENT INCOME
OQ216	WHO REC PENSION RETIREMENT INC
OQ217	R INCOME FR MORE THAN ONE PENSION
OQ218	NUMBER OF PENSIONS R RECEIVED
OQ220_1	R AMT RECV FR PENSION - LAST MONTH -1
OQ220_2	R AMT RECV FR PENSION - LAST MONTH -2
OQ221_1	R AMT RECV FROM PENSION - MIN -1
OQ221_2	R AMT RECV FROM PENSION - MIN -2
OQ222_1	R AMT RECV FROM PENSION - MAX -1
OQ222_2	R AMT RECV FROM PENSION - MAX -2
OQ223_1	R AMT RECV FROM PENSION - RESULT -1
OQ223_2	R AMT RECV FROM PENSION - RESULT -2
OQ231_1	R YEAR PENSION STARTED -1
OQ231_2	R YEAR PENSION STARTED -2

OQ232_1	R MONTH PENSION STARTED -1
OQ232_2	R MONTH PENSION STARTED -2
OQ238	OTHER PENSIONS
OQ243	SP PENSION
OQ244	SP NUMBER OF PENSIONS
OQ246_1	SP AMT RECV FR PENSION - LAST MONTH -1
OQ246_2	SP AMT RECV FR PENSION - LAST MONTH -2
OQ247_1	SP AMT RECV FROM PENSION - MIN -1
OQ247_2	SP AMT RECV FROM PENSION - MIN -2
OQ248_1	SP AMT RECV FROM PENSION - MAX -1
OQ248_2	SP AMT RECV FROM PENSION - MAX -2
OQ249_1	SP AMT RECV FROM PENSION - RESULT -1
OQ249_2	SP AMT RECV FROM PENSION - RESULT -2
OQ257_1	SP YEAR PENSION STARTED -1
OQ257_2	SP YEAR PENSION STARTED -2
OQ258_1	SP MONTH PENSION STARTED -1
OQ258_2	SP MONTH PENSION STARTED -2
OQ264	SP ALL OTH PENS AMT REC - LAST MONTH
OQ273	R OR SP INCOME FROM ANNUITIES
OQ274	WHO RECEIVED INC FROM ANNUITIES
OQ275	R INCOME FROM MORE THAN ONE ANNUITY
OQ276	R NUMBER OF ANNUITIES INCOME
OQ278_1	R AMT FROM ANNUITY - LAST MONTH -1
OQ278_2	R AMT FROM ANNUITY - LAST MONTH -2
OQ279_1	R AMT FROM ANNUITY - MIN -1
OQ279_2	R AMT FROM ANNUITY - MIN -2
OQ280_1	R AMT FROM ANNUITY - MAX -1
OQ280_2	R AMT FROM ANNUITY - MAX -2
OQ281_1	R AMT FROM ANNUITY - RESULT -1
OQ281_2	R AMT FROM ANNUITY - RESULT -2
OQ283_1	R YEAR ANNUITY PMT STARTED -1
OQ283_2	R YEAR ANNUITY PMT STARTED -2
OQ284_1	R MONTH ANNUITY PMT STARTED -1
OQ284_2	R MONTH ANNUITY PMT STARTED -2
OQ290	OTHER ANNUITIES
OQ295	MORE THAN ONE ANNUITY SP
OQ296	NUMBER OF ANNUITIES SP
OQ298_1	SP AMT FROM ANNUITY - LAST MONTH -1
OQ298_2	SP AMT FROM ANNUITY - LAST MONTH -2
OQ299_1	SP AMT FROM ANNUITY - MIN -1
OQ299_2	SP AMT FROM ANNUITY - MIN -2
OQ300_1	SP AMT FROM ANNUITY - MAX -1
OQ300_2	SP AMT FROM ANNUITY - MAX -2
OQ301_1	SP AMT FROM ANNUITY - RESULT -1
OQ301_2	SP AMT FROM ANNUITY - RESULT -2
OQ303_1	SP YEAR ANNUITY PMT STARTED -1
OQ303_2	SP YEAR ANNUITY PMT STARTED -2
OQ304_1	SP MONTH ANNUITY PMT STARTED -1
OQ304_2	SP MONTH ANNUITY PMT STARTED -2
OQ310	SP OTH ANNUIT PMT AMT LAST MONTH
OQ524_1	R INCOME FROM ANNUITY - LAST YEAR -1
OQ524_2	R INCOME FROM ANNUITY - LAST YEAR -2
OQ525_1	R AMOUNT FROM ANNUITY - LAST YEAR -1
OQ525_2	R AMOUNT FROM ANNUITY - LAST YEAR -2
OQ526	R INCOME FROM OTHER ANNUITY - LAST YEAR
OQ527	R AMOUNT FROM OTHER ANNUITY - LAST YEAR
OQ528_1	SP INCOME FROM ANNUITY - LAST YEAR -1
OQ529_1	SP AMOUNT FROM ANNUITY - LAST YEAR -1
OQ530	SP INCOME FROM OTHER ANNUITY - LAST YEAR

OQ531	SP AMOUNT FROM OTHER ANNUITY - LAST YR
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

<b>Individual Income from Social Security DI or SSI</b>
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Wave	Variable	Label	Type
1	R1ISSDI	R1ISSDI:W1 Income:R SSI + SS Disability	Cont
2	R2ISSDI	R2ISSDI:W2 Income:R SSI + SS Disability	Cont
3	R3ISSDI	R3ISSDI:W3 Income:R SSI + SS Disability	Cont
4	R4ISSDI	R4ISSDI:W4 Income:R SSI + SS Disability	Cont
5	R5ISSDI	R5ISSDI:W5 Income:R SSI + SS Disability	Cont
6	R6ISSDI	R6ISSDI:W6 Income:R SSI + SS Disability	Cont
7	R7ISSDI	R7ISSDI:W7 Income:R SSI + SS Disability	Cont
8	R8ISSDI	R8ISSDI:W8 Income:R SSI + SS Disability	Cont
9	R9ISSDI	R9ISSDI:W9 Income:R SSI + SS Disability	Cont
10	R10ISSDI	R10ISSDI:W10 Income:R SSI + SS Disability	Cont
11	R11ISSDI	R11ISSDI:W11 Income:R SSI + SS Disability	Cont
12	R12ISSDI	R12ISSDI:W12 Income:R SSI + SS Disability	Cont
1	S1ISSDI	S1ISSDI:W1 Income:Sp SSI + SS Disability	Cont
2	S2ISSDI	S2ISSDI:W2 Income:Sp SSI + SS Disability	Cont
3	S3ISSDI	S3ISSDI:W3 Income:Sp SSI + SS Disability	Cont
4	S4ISSDI	S4ISSDI:W4 Income:Sp SSI + SS Disability	Cont
5	S5ISSDI	S5ISSDI:W5 Income:Sp SSI + SS Disability	Cont
6	S6ISSDI	S6ISSDI:W6 Income:Sp SSI + SS Disability	Cont
7	S7ISSDI	S7ISSDI:W7 Income:Sp SSI + SS Disability	Cont
8	S8ISSDI	S8ISSDI:W8 Income:Sp SSI + SS Disability	Cont
9	S9ISSDI	S9ISSDI:W9 Income:Sp SSI + SS Disability	Cont
10	S10ISSDI	S10ISSDI:W10 Income:Sp SSI + SS Disability	Cont
11	S11ISSDI	S11ISSDI:W11 Income:Sp SSI + SS Disability	Cont
12	S12ISSDI	S12ISSDI:W12 Income:Sp SSI + SS Disability	Cont
1	R1IFSSDI	R1IFSSDI:W1 ImpFlag:R SSI + SS Disability	Categ
2	R2IFSSDI	R2IFSSDI:W2 ImpFlag:R SSI + SS Disability	Categ
3	R3IFSSDI	R3IFSSDI:W3 ImpFlag:R SSI + SS Disability	Categ
4	R4IFSSDI	R4IFSSDI:W4 ImpFlag:R SSI + SS Disability	Categ
5	R5IFSSDI	R5IFSSDI:W5 ImpFlag:R SSI + SS Disability	Categ
6	R6IFSSDI	R6IFSSDI:W6 ImpFlag:R SSI + SS Disability	Categ
7	R7IFSSDI	R7IFSSDI:W7 ImpFlag:R SSI + SS Disability	Categ
8	R8IFSSDI	R8IFSSDI:W8 ImpFlag:R SSI + SS Disability	Categ
9	R9IFSSDI	R9IFSSDI:W9 ImpFlag:R SSI + SS Disability	Categ
10	R10IFSSDI	R10IFSSDI:W10 ImpFlag:R SSI + SS Disability	Categ
11	R11IFSSDI	R11IFSSDI:W11 ImpFlag:R SSI + SS Disability	Categ
12	R12IFSSDI	R12IFSSDI:W12 ImpFlag:R SSI + SS Disability	Categ
1	S1IFSSDI	S1IFSSDI:W1 ImpFlag:Sp SSI + SS Disability	Categ
2	S2IFSSDI	S2IFSSDI:W2 ImpFlag:Sp SSI + SS Disability	Categ
3	S3IFSSDI	S3IFSSDI:W3 ImpFlag:Sp SSI + SS Disability	Categ
4	S4IFSSDI	S4IFSSDI:W4 ImpFlag:Sp SSI + SS Disability	Categ
5	S5IFSSDI	S5IFSSDI:W5 ImpFlag:Sp SSI + SS Disability	Categ
6	S6IFSSDI	S6IFSSDI:W6 ImpFlag:Sp SSI + SS Disability	Categ
7	S7IFSSDI	S7IFSSDI:W7 ImpFlag:Sp SSI + SS Disability	Categ
8	S8IFSSDI	S8IFSSDI:W8 ImpFlag:Sp SSI + SS Disability	Categ
9	S9IFSSDI	S9IFSSDI:W9 ImpFlag:Sp SSI + SS Disability	Categ
10	S10IFSSDI	S10IFSSDI:W10 ImpFlag:Sp SSI + SS Disability	Categ
11	S11IFSSDI	S11IFSSDI:W11 ImpFlag:Sp SSI + SS Disability	Categ
12	S12IFSSDI	S12IFSSDI:W12 ImpFlag:Sp SSI + SS Disability	Categ
1	R1ISDI	R1ISDI:W1 IncPart-SocSec DI	Cont
2	R2ISDI	R2ISDI:W2 IncPart-SocSec DI	Cont
3	R3ISDI	R3ISDI:W3 IncPart-SocSec DI	Cont
4	R4ISDI	R4ISDI:W4 IncPart-SocSec DI	Cont
5	R5ISDI	R5ISDI:W5 IncPart-SocSec DI	Cont
6	R6ISDI	R6ISDI:W6 IncPart-SocSec DI	Cont
7	R7ISDI	R7ISDI:W7 IncPart-SocSec DI	Cont
8	R8ISDI	R8ISDI:W8 IncPart-SocSec DI	Cont
9	R9ISDI	R9ISDI:W9 IncPart-SocSec DI	Cont
10	R10ISDI	R10ISDI:W10 IncPart-SocSec DI	Cont
11	R11ISDI	R11ISDI:W11 IncPart-SocSec DI	Cont
12	R12ISDI	R12ISDI:W12 IncPart-SocSec DI	Cont
1	S1ISDI	S1ISDI:W1 IncPart-SocSec DI	Cont

2	S2ISDI	S2ISDI:W2 IncPart-SocSec DI	Cont
3	S3ISDI	S3ISDI:W3 IncPart-SocSec DI	Cont
4	S4ISDI	S4ISDI:W4 IncPart-SocSec DI	Cont
5	S5ISDI	S5ISDI:W5 IncPart-SocSec DI	Cont
6	S6ISDI	S6ISDI:W6 IncPart-SocSec DI	Cont
7	S7ISDI	S7ISDI:W7 IncPart-SocSec DI	Cont
8	S8ISDI	S8ISDI:W8 IncPart-SocSec DI	Cont
9	S9ISDI	S9ISDI:W9 IncPart-SocSec DI	Cont
10	S10ISDI	S10ISDI:W10 IncPart-SocSec DI	Cont
11	S11ISDI	S11ISDI:W11 IncPart-SocSec DI	Cont
12	S12ISDI	S12ISDI:W12 IncPart-SocSec DI	Cont
1	R1IFSDI	R1IFSDI:W1 ImpFlag-SocSec DI	Categ
2	R2IFSDI	R2IFSDI:W2 ImpFlag-SocSec DI	Categ
3	R3IFSDI	R3IFSDI:W3 ImpFlag-SocSec DI	Categ
4	R4IFSDI	R4IFSDI:W4 ImpFlag-SocSec DI	Categ
5	R5IFSDI	R5IFSDI:W5 ImpFlag-SocSec DI	Categ
6	R6IFSDI	R6IFSDI:W6 ImpFlag-SocSec DI	Categ
7	R7IFSDI	R7IFSDI:W7 ImpFlag-SocSec DI	Categ
8	R8IFSDI	R8IFSDI:W8 ImpFlag-SocSec DI	Categ
9	R9IFSDI	R9IFSDI:W9 ImpFlag-SocSec DI	Categ
10	R10IFSDI	R10IFSDI:W10 ImpFlag-SocSec DI	Categ
11	R11IFSDI	R11IFSDI:W11 ImpFlag-SocSec DI	Categ
12	R12IFSDI	R12IFSDI:W12 ImpFlag-SocSec DI	Categ
1	S1IFSDI	S1IFSDI:W1 ImpFlag-SocSec DI	Categ
2	S2IFSDI	S2IFSDI:W2 ImpFlag-SocSec DI	Categ
3	S3IFSDI	S3IFSDI:W3 ImpFlag-SocSec DI	Categ
4	S4IFSDI	S4IFSDI:W4 ImpFlag-SocSec DI	Categ
5	S5IFSDI	S5IFSDI:W5 ImpFlag-SocSec DI	Categ
6	S6IFSDI	S6IFSDI:W6 ImpFlag-SocSec DI	Categ
7	S7IFSDI	S7IFSDI:W7 ImpFlag-SocSec DI	Categ
8	S8IFSDI	S8IFSDI:W8 ImpFlag-SocSec DI	Categ
9	S9IFSDI	S9IFSDI:W9 ImpFlag-SocSec DI	Categ
10	S10IFSDI	S10IFSDI:W10 ImpFlag-SocSec DI	Categ
11	S11IFSDI	S11IFSDI:W11 ImpFlag-SocSec DI	Categ
12	S12IFSDI	S12IFSDI:W12 ImpFlag-SocSec DI	Categ
1	R1ISSI	R1ISSI:W1 IncPart-SSI Inc	Cont
2	R2ISSI	R2ISSI:W2 IncPart-SSI Inc	Cont
3	R3ISSI	R3ISSI:W3 IncPart-SSI Inc	Cont
4	R4ISSI	R4ISSI:W4 IncPart-SSI Inc	Cont
5	R5ISSI	R5ISSI:W5 IncPart-SSI Inc	Cont
6	R6ISSI	R6ISSI:W6 IncPart-SSI Inc	Cont
7	R7ISSI	R7ISSI:W7 IncPart-SSI Inc	Cont
8	R8ISSI	R8ISSI:W8 IncPart-SSI Inc	Cont
9	R9ISSI	R9ISSI:W9 IncPart-SSI Inc	Cont
10	R10ISSI	R10ISSI:W10 IncPart-SSI Inc	Cont
11	R11ISSI	R11ISSI:W11 IncPart-SSI Inc	Cont
12	R12ISSI	R12ISSI:W12 IncPart-SSI Inc	Cont
1	S1ISSI	S1ISSI:W1 IncPart-SSI Inc	Cont
2	S2ISSI	S2ISSI:W2 IncPart-SSI Inc	Cont
3	S3ISSI	S3ISSI:W3 IncPart-SSI Inc	Cont
4	S4ISSI	S4ISSI:W4 IncPart-SSI Inc	Cont
5	S5ISSI	S5ISSI:W5 IncPart-SSI Inc	Cont
6	S6ISSI	S6ISSI:W6 IncPart-SSI Inc	Cont
7	S7ISSI	S7ISSI:W7 IncPart-SSI Inc	Cont
8	S8ISSI	S8ISSI:W8 IncPart-SSI Inc	Cont
9	S9ISSI	S9ISSI:W9 IncPart-SSI Inc	Cont
10	S10ISSI	S10ISSI:W10 IncPart-SSI Inc	Cont
11	S11ISSI	S11ISSI:W11 IncPart-SSI Inc	Cont
12	S12ISSI	S12ISSI:W12 IncPart-SSI Inc	Cont
2	H2IFSSI	H2IFSSI:W2 ImpFlag-SSI Inc	Categ
3	H3IFSSI	H3IFSSI:W3 ImpFlag-SSI Inc	Categ
4	H4IFSSI	H4IFSSI:W4 ImpFlag-SSI Inc	Categ
5	H5IFSSI	H5IFSSI:W5 ImpFlag-SSI Inc	Categ
6	H6IFSSI	H6IFSSI:W6 ImpFlag-SSI Inc	Categ
7	H7IFSSI	H7IFSSI:W7 ImpFlag-SSI Inc	Categ
8	H8IFSSI	H8IFSSI:W8 ImpFlag-SSI Inc	Categ
9	H9IFSSI	H9IFSSI:W9 ImpFlag-SSI Inc	Categ



10	H10IFSSI	H10IFSSI:W10 ImpFlag-SSI Inc	Categ
11	H11IFSSI	H11IFSSI:W11 ImpFlag-SSI Inc	Categ
12	H12IFSSI	H12IFSSI:W12 ImpFlag-SSI Inc	Categ
1	R1IFSSI	R1IFSSI:W1 ImpFlag-SSI Inc	Categ
2	R2IFSSI	R2IFSSI:W2 ImpFlag-SSI Inc	Categ
1	S1IFSSI	S1IFSSI:W1 ImpFlag-SSI Inc	Categ
2	S2IFSSI	S2IFSSI:W2 ImpFlag-SSI Inc	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ISSDI	12652	403.34	1776.28	0.0	30000.0
R2ISSDI	19642	375.53	1606.73	0.0	19812.0
R3ISSDI	17991	437.73	1806.82	0.0	22279.4
R4ISSDI	21384	365.74	1697.95	0.0	23007.8
R5ISSDI	19579	277.27	1463.27	0.0	18537.7
R6ISSDI	18165	411.75	1938.89	0.0	32575.1
R7ISSDI	20129	392.44	1919.16	0.0	24000.0
R8ISSDI	18469	500.35	2324.46	0.0	37200.0
R9ISSDI	17217	468.07	2263.62	0.0	30696.0
R10ISSDI	22034	686.28	2911.45	0.0	39600.0
R11ISSDI	20554	715.94	2970.22	0.0	74400.0
R12ISSDI	18747	839.96	3347.68	0.0	54000.0
S1ISSDI	10279	314.91	1644.18	0.0	30000.0
S2ISSDI	13672	283.64	1504.96	0.0	19812.0
S3ISSDI	12333	311.11	1628.03	0.0	22279.4
S4ISSDI	14515	282.93	1606.40	0.0	19200.0
S5ISSDI	13041	225.63	1442.32	0.0	18537.7
S6ISSDI	11859	347.26	1921.17	0.0	32575.1
S7ISSDI	13352	305.10	1816.22	0.0	24000.0
S8ISSDI	12052	419.13	2281.71	0.0	37200.0
S9ISSDI	11012	375.48	2174.78	0.0	30696.0
S10ISSDI	14235	492.05	2615.42	0.0	39600.0
S11ISSDI	13080	531.43	2760.07	0.0	74400.0
S12ISSDI	11620	621.83	3093.61	0.0	54000.0
R1IFSSDI	12652	0.15	0.83	0.0	9.0
R2IFSSDI	19642	0.18	0.83	0.0	9.0
R3IFSSDI	17991	0.18	0.83	0.0	9.0
R4IFSSDI	21384	0.19	0.95	0.0	9.0
R5IFSSDI	19579	0.16	0.83	0.0	9.0
R6IFSSDI	18165	0.12	0.55	0.0	9.0
R7IFSSDI	20129	0.13	0.64	0.0	9.0
R8IFSSDI	18469	0.12	0.60	0.0	9.0
R9IFSSDI	17217	0.13	0.65	0.0	9.0
R10IFSSDI	22034	0.25	1.14	0.0	9.0
R11IFSSDI	20554	0.19	0.87	0.0	9.0
R12IFSSDI	18747	0.21	0.94	0.0	9.0
S1IFSSDI	12652	1.62	3.17	0.0	9.0
S2IFSSDI	19642	2.54	3.68	0.0	9.0
S3IFSSDI	17991	2.61	3.71	0.0	9.0
S4IFSSDI	21384	2.70	3.75	0.0	9.0
S5IFSSDI	19579	2.76	3.77	0.0	9.0

S6IFSSDI	18165	2.84	3.79	0.0	9.0
S7IFSSDI	20129	2.77	3.77	0.0	9.0
S8IFSSDI	18469	2.85	3.79	0.0	9.0
S9IFSSDI	17217	2.96	3.83	0.0	9.0
S10IFSSDI	22034	3.00	3.84	0.0	9.0
S11IFSSDI	20554	3.03	3.84	0.0	9.0
S12IFSSDI	18747	3.18	3.87	0.0	9.0
R1ISDI	12652	270.42	1519.91	0.0	30000.0
R2ISDI	19642	235.10	1398.00	0.0	18000.0
R3ISDI	17991	289.57	1591.30	0.0	22279.4
R4ISDI	21384	219.41	1439.01	0.0	18108.1
R5ISDI	19579	165.78	1298.16	0.0	18537.7
R6ISDI	18165	281.15	1753.15	0.0	32575.1
R7ISDI	20129	259.85	1705.89	0.0	24000.0
R8ISDI	18469	341.05	2059.30	0.0	37200.0
R9ISDI	17217	303.89	1991.75	0.0	30696.0
R10ISDI	22034	481.16	2525.58	0.0	39600.0
R11ISDI	20554	501.87	2598.23	0.0	49200.0
R12ISDI	18747	592.98	2903.55	0.0	38400.0
S1ISDI	10279	245.47	1482.16	0.0	30000.0
S2ISDI	13672	225.61	1406.45	0.0	18000.0
S3ISDI	12333	253.54	1543.11	0.0	22279.4
S4ISDI	14515	207.50	1444.83	0.0	18108.1
S5ISDI	13041	173.09	1349.49	0.0	18537.7
S6ISDI	11859	295.77	1840.04	0.0	32575.1
S7ISDI	13352	249.36	1718.00	0.0	24000.0
S8ISDI	12052	347.23	2120.89	0.0	37200.0
S9ISDI	11012	300.81	2022.74	0.0	30696.0
S10ISDI	14235	391.26	2357.22	0.0	39600.0
S11ISDI	13080	424.39	2500.52	0.0	49200.0
S12ISDI	11620	483.74	2722.75	0.0	38400.0
R1IFSDI	12652	5.84	0.98	1.0	9.0
R2IFSDI	19642	5.88	0.89	1.0	9.0
R3IFSDI	17991	5.84	0.98	1.0	9.0
R4IFSDI	21384	5.90	0.86	1.0	9.0
R5IFSDI	19579	5.93	0.71	1.0	9.0
R6IFSDI	18165	5.88	0.81	1.0	9.0
R7IFSDI	20129	5.89	0.80	1.0	9.0
R8IFSDI	18469	5.86	0.85	1.0	9.0
R9IFSDI	17217	5.89	0.80	1.0	9.0
R10IFSDI	22034	5.86	1.02	1.0	9.0
R11IFSDI	20554	5.82	1.01	1.0	9.0
R12IFSDI	18747	5.81	1.06	1.0	9.0
S1IFSDI	12652	6.27	1.18	1.0	9.0
S2IFSDI	19642	6.54	1.20	1.0	9.0
S3IFSDI	17991	6.54	1.24	1.0	9.0
S4IFSDI	21384	6.59	1.19	1.0	9.0
S5IFSDI	19579	6.62	1.13	1.0	9.0
S6IFSDI	18165	6.61	1.21	1.0	9.0
S7IFSDI	20129	6.61	1.17	1.0	9.0
S8IFSDI	18469	6.61	1.22	1.0	9.0
S9IFSDI	17217	6.66	1.19	1.0	9.0
S10IFSDI	22034	6.65	1.24	1.0	9.0
S11IFSDI	20554	6.65	1.25	1.0	9.0
S12IFSDI	18747	6.69	1.27	1.0	9.0

R1ISSI	12652	132.92	874.71	0.0	16800.0
R2ISSI	19642	140.42	791.13	0.0	14289.0
R3ISSI	17991	148.15	801.54	0.0	10696.4
R4ISSI	21384	146.33	859.02	0.0	23007.8
R5ISSI	19579	111.49	668.87	0.0	13624.0
R6ISSI	18165	130.60	797.90	0.0	10800.0
R7ISSI	20129	132.59	829.37	0.0	15670.9
R8ISSI	18469	159.30	1013.85	0.0	20400.0
R9ISSI	17217	164.18	1045.24	0.0	19200.0
R10ISSI	22034	205.12	1233.05	0.0	19200.0
R11ISSI	20554	214.07	1293.66	0.0	25200.0
R12ISSI	18747	246.98	1452.13	0.0	28800.0
S1ISSI	10279	69.44	660.02	0.0	16800.0
S2ISSI	13672	58.03	524.00	0.0	14289.0
S3ISSI	12333	57.57	493.02	0.0	10334.9
S4ISSI	14515	75.43	639.98	0.0	14171.3
S5ISSI	13041	52.54	486.44	0.0	8640.0
S6ISSI	11859	51.50	496.14	0.0	10800.0
S7ISSI	13352	55.74	537.23	0.0	10080.0
S8ISSI	12052	71.91	728.06	0.0	23074.0
S9ISSI	11012	74.66	752.18	0.0	19200.0
S10ISSI	14235	100.79	893.89	0.0	19200.0
S11ISSI	13080	107.04	934.14	0.0	25200.0
S12ISSI	11620	138.09	1192.11	0.0	28800.0
H2IFSSI	8222	5.68	1.26	1.0	9.0
H3IFSSI	17991	5.78	1.10	1.0	9.0
H4IFSSI	21384	5.80	1.09	1.0	9.0
H5IFSSI	19579	5.83	0.97	1.0	9.0
H6IFSSI	18165	5.81	0.98	1.0	9.0
H7IFSSI	20129	5.82	0.97	1.0	9.0
H8IFSSI	18469	5.80	1.02	1.0	9.0
H9IFSSI	17217	5.82	1.00	1.0	9.0
H10IFSSI	22034	5.85	1.10	1.0	9.0
H11IFSSI	20554	5.80	1.08	1.0	9.0
H12IFSSI	18747	5.80	1.12	1.0	9.0
R1IFSSI	12652	5.89	0.86	1.0	9.0
R2IFSSI	11420	5.91	0.85	1.0	9.0
S1IFSSI	12652	6.34	1.00	1.0	9.0
S2IFSSI	11420	6.39	0.98	1.0	9.0

**Categorical Variable Codes**

Value	R1IFSSDI	R2IFSSDI	R3IFSSDI	R4IFSSDI	R5IFSSDI	R6IFSSDI	R7IFSSDI
0.No income	11694	17689	16179	19382	17984	16640	18530
1.No imputations	734	1313	1323	1330	956	1060	1121
2.Some imputation	129	506	363	465	502	427	405
9.No Fin Resp	95	134	126	207	137	38	73

Value	R8IFSSDI	R9IFSSDI	R10IFSSDI	R11IFSSDI	R12IFSSDI
0.No income	16933	15857	19608	18417	16695
1.No imputations	1182	1019	1533	1504	1438
2.Some imputation	297	275	566	476	438
9.No Fin Resp	57	66	327	157	176

Value	S1IFSSDI	S2IFSSDI	S3IFSSDI	S4IFSSDI	S5IFSSDI	S6IFSSDI	S7IFSSDI
0.No income	9658	12699	11432	13461	12269	11112	12558
1.No imputations	438	590	647	624	485	503	528
2.Some imputation	88	280	168	245	194	211	197
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	33	69

Value	S8IFSSDI	S9IFSSDI	S10IFSSDI	S11IFSSDI	S12IFSSDI
0.No income	11265	10334	12926	11972	10580
1.No imputations	582	490	716	678	630
2.Some imputation	156	130	319	290	259
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	49	58	274	140	151

Value	R1IFSDI	R2IFSDI	R3IFSDI	R4IFSDI	R5IFSDI	R6IFSDI	R7IFSDI
1.Continuous value	459	580	634	538	331	451	481
2.Complete bracket			31	37	22	30	23
3.Incomplete bracket			8	7	3	1	3
5.No value/bracket	52	59	37	19	23	61	47
6.No income	11994	18630	17099	20511	18998	17501	19467
7.DK if income	52	239	56	65	65	83	35
9.No Fin Resp	95	134	126	207	137	38	73

Value	R8IFSDI	R9IFSDI	R10IFSDI	R11IFSDI	R12IFSDI
1.Continuous value	506	407	796	783	766
2.Complete bracket	33	17	28	36	47
3.Incomplete bracket	3	5	8	7	10
5.No value/bracket	47	32	101	88	73
6.No income	17802	16662	20705	19440	17624
7.DK if income	21	28	69	43	51
9.No Fin Resp	57	66	327	157	176

Value	S1IFSDI	S2IFSDI	S3IFSDI	S4IFSDI	S5IFSDI	S6IFSDI	S7IFSDI
1.Continuous value	321	359	359	323	216	292	274
2.Complete bracket			20	25	16	25	13
3.Incomplete bracket			2	5	3		3
5.No value/bracket	38	38	17	11	18	43	36
6.No income	9784	13008	11818	13928	12656	11420	12926
7.DK if income	41	164	31	38	39	46	31
8.No spouse/partner	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	33	69

Value	S8IFSDI	S9IFSDI	S10IFSDI	S11IFSDI	S12IFSDI
1.Continuous value	319	240	376	366	343
2.Complete bracket	23	15	19	20	31
3.Incomplete bracket	3	2	7	3	6
5.No value/bracket	34	26	69	69	56
6.No income	11607	10650	13439	12432	10984
7.DK if income	17	21	51	50	49
8.No spouse/partner	6417	6205	7799	7474	7127
9.No Fin Resp	49	58	274	140	151

Value	R1IFSSI	R2IFSSI
.Q=Not asked this wv		8222
1.Continuous value	347	282
5.No value/bracket	29	59
6.No income	12133	10858
7.DK if income	48	97
9.No Fin Resp	95	124

Value	S1IFSSI	S2IFSSI
.Q=Not asked this wv		4549
.U=Unmarried		3673
1.Continuous value	147	105
5.No value/bracket	12	17
6.No income	9988	8845
7.DK if income	37	57
8.No spouse/partner	2373	2297
9.No Fin Resp	95	99

Value	H2IFSSI	H3IFSSI	H4IFSSI	H5IFSSI	H6IFSSI	H7IFSSI
.Q=Not asked this wv	11420					
1.Continuous value	548	819	906	663	661	711
2.Complete bracket		43	79	48	55	53
3.Incomplete bracket		2	8	3	8	3
5.No value/bracket	38	166	215	266	112	138
6.No income	7477	16781	19886	18346	17171	19023
7.DK if income	149	54	83	116	113	112
9.No Fin Resp	10	126	207	137	45	89
Value	H8IFSSI	H9IFSSI	H10IFSSI	H11IFSSI	H12IFSSI	
1.Continuous value	741	661	906	877	845	
2.Complete bracket	45	34	36	64	70	
3.Incomplete bracket	5	4	8	10	8	
5.No value/bracket	49	55	84	86	39	
6.No income	17455	16279	20384	19181	17420	
7.DK if income	109	109	198	165	166	
9.No Fin Resp	65	75	418	171	199	

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

RwISSDI is the sum of the Respondent's income from Social Security disability (SDI) and Supplemental Security income (SSI). Income from SDI and SSI are available separately in RwISDI and RwISSI. RwIFSSDI is a flag that indicates whether any components are imputed in the combined measure. RwIFSDI and RwIFSSI are the flags that indicate whether any components were imputed in the individual measures.

SwISSDI is the sum of the spouse's income from SDI and SSI. Income from SDI and SSI are available separately in SwISDI and SwISSI. SwIFSSDI is a flag that indicates whether any components are imputed. SwIFSDI and SwIFSSI are the flags that indicate whether any components were imputed in the individual measures.

RwISDI is the portion of RwISSDI that represents the Respondent's Social Security disability income, and RwISSI is the portion that represents the Respondent's income from SSI. Note that RwISDI and RwISSI are included in RwISSDI, i.e., RwISSDI is equal to the sum of RwISDI and RwISSI. RwIFSDI, R1IFSSI, R2IFSSI (for W2H), H2IFSSI (for W2A), and H3IFSSI forward flag whether these components are imputed, and if so, how much information is available to impute from.

SwISDI is the portion of SwISSDI that represents the spouse's Social Security disability income, and SwISSI is the portion that represents the Respondent's income from SSI. Note that SwISDI and SwISSI are included in SwISSDI, i.e., SwISSDI is equal to the sum of SwISDI and SwISSI. SwIFSDI, S1IFSSI, S2IFSSI (for W2H), H2IFSSI (for W2A), and H3IFSSI forward flag whether these components are imputed, and if so, how much information is available to impute from.

In Waves 1 and 2H, SSI income is reported individually. In Wave 2A and from Wave 3 forward, it is reported for the household. As this is an individual measure, the household SSI is split between the Respondent and spouse if the household is a couple. That is, in couple households in Wave 2A and from Wave 3 forward, RwISSI is the same as SwISSI, and both are equal to household SSI divided by two ( $RwISSI = SwISSI = SSI / 2$ ).

Beginning in Version F, we have introduced logic that takes into account who reported receiving SSI income. Specifically, the income is split between the Respondent and spouse if the Respondent is married or partnered, and the income is reported jointly. However, income from SSI is not split between the two members of the couple if only one reports receiving it, that is, it is assigned to the appropriate recipient. This logic, as previously stated, does not apply to Waves 1 and 2H, since it is already reported individually, nor does it apply to Waves 2A and 3A, since there is no question about who received income from SSI. [See Appendix A for a description of how many cases were affected by this change.]

In Wave 1, the questions ask the annual amount of Social Security and SSI received in 1991. From Wave 2 forward, a monthly amount is asked. For Social Security, the first month received is also asked. Beginning in Wave 2H, the SSI questions ask which months since last interview SSI was received. The variable derivation checks the month income was received and multiplies the monthly amount appropriately to calculate a yearly amount.

In Waves 1, 2 and 3A, the type of Social Security income received is reported, with one exception. In Wave 1, if both in a couple receive Social Security income in a joint check, the type is not reported; in these cases, the income is treated as retirement (OAS), not disability, income. From Wave 3H forward, the type of Social Security income is not reported. Variables in the disability section indicating whether the Respondent and spouse receive Social Security disability are used to determine whether Social Security reported in the income section is disability income or not.

In Wave 3A, Respondents and spouses who received income from Social Security are asked to indicate what the amount was for (i.e., retirement, disability, survivor benefits, dependent of disabled or retired, or other). People list up to two types of Social Security. However, the questions about how much they received do not make a distinction between amounts received from each type of Social Security but simply lump them together. Therefore, we decided that if a person reports receiving disability income, even if s/he also report getting another type of income from Social Security, the amount

s/he indicated would be considered disability income.

From Wave 7 forward, an additional response option ("6. SSDI HAS CONVERTED TO SOCIAL SECURITY (VOL)") was added to the question about benefits from the Social Security Disability or Supplemental Security Income program. There were fewer than 50 individuals who selected this category. We added logic to check the ages of these individuals before designating them as receiving social security retirement income. Specifically, we required that a person be greater than 66 years of age at the time of the interview or have an end year for her/his social security income before last calendar year to make them have retirement instead of disability income.

Beginning in Version F, we incorporated logic in Waves 1 and 2H and from Wave 3H forward that examines the ages of Respondents and spouses. For those who are greater than 66 years of age at the time of the interview and receive Social Security disability income, we override this and instead assign the income to retirement. This is based on the notion that these individuals turned 65 or 66 (i.e., retirement age) during the last calendar year, at which point disability benefits automatically convert to retirement benefits. [See Appendix A for a description of how many cases were affected by this change.]

RwISSDI and SwISSDI only include Social Security income if it is received due to disability. SSI income is always included.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in Wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, R2IFSSI and S2IFSSI are set to .Q to indicate that the corresponding income components are not available in Wave 2A. For HRS entry cohort Respondents, H2IFSSI is set to .Q to indicate that the corresponding income components are not available in Wave 2H.

### **Cross Wave Differences in Original HRS Data**

The way the Social Security and Supplemental Security Income questions are asked varies across waves.

In Wave 1, the questions asked the annual amount of Social Security and SSI received in 1991. In Wave 1 and Wave 2A, if the Respondent and spouse received a joint check for Social Security, only one amount is asked; if they received separate checks, amounts were asked for each individual. From Wave 2 forward, a monthly amount is asked. For social security the first month received is also asked. Beginning in Wave 2H, the SSI questions ask which months since the last interview SSI was received. The variable derivation checks that the monthly income was received and multiplies the monthly amount appropriately to calculate a yearly amount.

In Waves 1, 2 and 3A, the type of Social Security income received is reported, with one exception. In Wave 1, if both Respondent and spouse received Social Security income in a joint check, the type is not reported; in these cases, the income is treated as retirement (OAS), not disability, income. From Wave 3H forward, the type of Social Security income is not reported. Variables in the disability section indicating whether the Respondent and spouse received Social Security disability are used to determine whether Social Security reported in the income section is disability income or not.

In Wave 3A, Respondents and spouses who received income from Social Security are asked to indicate what the amount was for (i.e., retirement, disability, survivor benefits, dependent of disabled or retired, or other). People list up to two types of Social Security. However, the questions about how much they received do not make a distinction between amounts received from each type of Social Security, and simply lump them together. Therefore, we decided that if a person reports receiving disability income, even if s/he also report getting another type of income from Social Security, the amount s/he indicated would be considered disability income.

From Wave 3 forward, if the Respondent refuses or does not know the value of monthly Social Security or Supplemental



Security income, a series of unfolding bracket questions are asked. The bracket amounts for Social Security income change in Wave 5 but otherwise are the same across waves. The exception to this is in Wave 3A, where the bracket amounts are based on the last year rather than the last month. In Waves 1 and 2, no unfolding bracket questions are asked.

In Wave 6, there are two possible sources of information about whether the spouse receives social security: (1) the Financial Respondent's report in the income section (Section Q); and (2) the spouse's self-report in the employment section (Section J). To determine whether the spouse has any social security income, we use the spouse's self-report. However, if the spouse did not respond, or the self-report is missing, we use the Financial Respondent's report. Our rationale for doing this is that the self-report is probably more accurate. It is also important to note that the self-report in the employment section is the only question about whether the Financial Respondent receives social security income.

In Wave 7, an additional response option ("6. SSDI HAS CONVERTED TO SOCIAL SECURITY (VOL)") was added to the following question, which helped us determine whether the type of social security income being received was for retirement or disability:

According to our records, in (See Blaise specifications for piRVarsZ092\_IwMo\_V}) ([See Blaise Specifications for piRVarsZ093\_IwYr\_V assignment]) you were receiving benefits from the Social Security Disability program or the Supplemental Security Income program. Which program was this: the Social Security Disability or the Supplemental Security Income program, or both?

For AHEAD Respondents in Wave 2A, the income components corresponding to imputation flags R2IFSSI and S2IFSSI are not available.

For HRS Respondents in Wave 2H, the income components corresponding to imputation flags H2IFSSI is not available.

## HRS Variables Used

HRS 1992:

V15801	N28:RECV SSI IN 1991:IND
V15802	N28A:WHO RECEIVED SS:IND
V15803	N29 SSI:R1 REC91IND :IND
V15823	N33 SSI:R2 REC91IND :IND
V16001	N41:SS:RCV SOC SEC I:IND
V16003	N41B:SS: AMT RECD I:IND
V16012	N42A:SS:R1: AMT REC:IND
V16021	N42A:SS:R2 AMT RECV:IND
V16030	N43A:SS:R1: AMT REC:IND
V16107	N44A:SS:R2 AMT RECV:IND
V5801	N28:RECV SSI IN 1991:IMP
V5802	N28A:WHO RECEIVED SS:IMP
V5803	N29:SSI:R1\$AMT RECV :IMP
V5804	N29:SSI:R1RECEIVED P:IMP
V5823	N33:SSI:R2 AMT RECV :IMP
V5824	N33:SSI:R2RECEIVED P:IMP
V6001	N41:SS:RCV SOC SEC I:IMP
V6002	N41A:SS:1CHK/SEPARATE CK
V6003	N41B:SS: AMT RECVD :IMP
V6007	N42:SS:R1DISABILITY
V6012	N42A:SS:R1 AMT RECV:IMP
V6016	N42:SS:R2DISABILITY
V6021	N42A:SS:R2 AMT RECV:IMP
V6025	N43:SS:R1DISABILITY
V6030	N43A:SS:R1 AMT RECV:IMP
V6102	N44:SS:R2DISABILITY

V6107	N44A:SS:R2 AMT RECV:IMP
AHEAD 1993:	
B1376	J1. SS: RECEIVE ANY
B1377	J1a. SS: 1 OR 2 CHECKS
B1378	J2. SS: R TYPE
B1379	J2b. SS: R \$ LAST MONTH
B1381	J2d. SS: R START MONTH
B1382	J2e. SS: R START YEAR
B1389	J3. SS: SP TYPE
B1390	J3a. SS: SP \$ LAST MONTH
B1392	J3c. SS: SP START MONTH
B1393	J3d. SS: SP START YEAR
B1413	J6. SSI: RECEIVE ANY LAST MONTH
B1414	J7. SSI: \$ LAST MONTH
B1415	J8. SSI: START >2YRS AGO
B1416	J8a. SSI: START MONTH
B1417	J8b. SSI: START YEAR
B1418	J9. SSI: RECEIVE ANY 1992/3
B1419	J10. SSI: LAST MONTH RECD 1992/3
B1420	J10a. SSI: LAST YEAR RECD 1992/3
B1421	J11. SSI: \$ LAST MONTH 1992/3
HRS 1994:	
W16204	N22d. Imputation flag
W16253	N23. Imputation flag
W16254	N23a. Imputation flag
W16260	N23c. Imputation flag
W16268	N23g. Imputation flag
W6157	N22.SUPPLEMENTAL SECURIT
W6158	N22a.WHO RECEIVED SSI
W6159	N22b.WHICH MONTHS
W6160	N22b.START/STOP RECEIVIN
W6161	N22b.START/STOP RECEIVIN
W6174	N22c. Jan 1993
W6175	N22c. Feb 1993
W6176	N22c. Mar 1993
W6177	N22c. Apr 1993
W6178	N22c. May 1993
W6179	N22c. Jun 1993
W6180	N22c. Jul 1993
W6181	N22c. Aug 1993
W6182	N22c. Sep 1993
W6183	N22c. Oct 1993
W6184	N22c. Nov 1993
W6185	N22c. Dec 1993
W6199	N22c. All of 1993
W6201	N22c. Other
W6202	N22c. DK
W6203	N22c. RF
W6204	N22d.AMT SSI LAST MONTH
W6205	N22e.AMT SSI LAST MONTH
W6206	N22f.SP-WHICH MONTHS
W6207	N22f.SP-START/STOP RECEI
W6208	N22f.SP-START/STOP RECEI
W6221	N22g. Jan 1993
W6222	N22g. Feb 1993
W6223	N22g. Mar 1993
W6224	N22g. Apr 1993
W6225	N22g. May 1993
W6226	N22g. Jun 1993

W6227	N22g. Jul 1993
W6228	N22g. Aug 1993
W6229	N22g. Sep 1993
W6230	N22g. Oct 1993
W6231	N22g. Nov 1993
W6232	N22g. Dec 1993
W6248	N22g. Other
W6249	N22g. DK
W6250	N22g. RF
W6251	N22h.SP-AMT SSI LAST MON
W6252	N22k.SP-AMT SSI LAST MON
W6253	N23.SOCIAL SECURITY?
W6254	N23a.WHO RECEIVED SOCIAL
W6255	N23b.TYPE SOCIAL SECURIT
W6256	N23b.TYPE SOCIAL SECURIT
W6260	N23c.AMT SS LAST MONTH
W6261	N23e.START RECEIVING SS-
W6262	N23e.START RECEIVING SS-
W6263	N23f.SP-TYPE SOCIAL SECU
W6264	N23f.SP-TYPE SOCIAL SECU
W6268	N23g.SP-AMT SS LAST MONT
W6269	N23h.SP-START RECEIVING
W6270	N23h.SP-START RECEIVING
AHEAD 1995:	
D3875	J1.RECEIVE SOC SEC
D3877M1	J2.R TYPE SOC SEC
D3877M2	J2.R TYPE SOC SEC
D3878	J3.AMT SOC SEC LAST MNTH
D3879	J3A.AMT SS R DK-1
D3880	J3B.AMT SS R DK-2
D3881	J3C.AMT SS R DK-3
D3883	J4A.MONTH START SOC SEC
D3884	J4A.YEAR START SOC SEC
D3885	J5.SP REC SS
D3886M1	J5A.SP TYPE SOC SEC
D3886M2	J5A.SP TYPE SOC SEC
D3888	J6.AMT SOC SEC LAST MNTH SP/PT
D3889	J6A.AMT SS S DK-1
D3890	J6B.AMT SS S DK-2
D3891	J6C.AMT SS S DK-3
D3893	J7A.MONTH START SOC SEC SP/PT
D3894	J7B.YEAR START SOC SEC SP/PT
D3911	J10. SSI-MONTH
D3912	J11. SSI \$
D3913	J11A.AMT SS R DK-1
D3914	J11B.AMT SS R DK-2
D3915	J11C.AMT SS R DK-3
D3917	J11E. SSI-MONTH
D3918	J11F. SSI
HRS 1996:	
E3580	GD18. RECEIVE SSD/SSI
E3582	GD18B. SS STOP-YR
E3606	GD26F1. SS RECEIVE-YR
E3614	GD26J. SS-STILL RECEIVING
E3616	GD26K1. SS STOP-YR
E3983	J45.SOC SEC INCOME
E3984	J46.WHO RECEIVE SOC SEC INCOME
E3985	J47.R AMT RECVD SS LAST MO
E3986	J47A.R \$ RECVD SS LAST MO DK-1K

E3987	J47B.R \$ RECVD SS LAST MO DK-1.5K
E3989	J47D.R \$ RECVD SS LAST MO DK-500
E3990	J48.R RECV SS BENEFITS START YEAR
E3991	J49.SS BENEFITS START MONTH
E3996	J50A1.SP HOW MUCH SS BENEFITS
E3997	J50A2.SP \$ SS BENEFITS DK-1K
E3998	J50A3.SP \$ SS BENEFITS DK-1.5K
E4000	J50A5.SP \$ SS BENEFITS DK-500
E4001	J50B1.SP BENEFITS START - YEAR
E4002	J50B2.SP BENEFITS START - MONTH
E4021	J59.R/S SSI-LAST MONTH
E4022	J60.WHO RECEIVED SSI
E4023	J61.R/S SSI \$
E4024	J61A.R/S SSI \$ DK-500
E4025	J61B.R/S SSI \$ DK-750
E4026	J61C.R/S SSI \$ DK-250
E4027	J62.SSI START YEAR
E4028	J62B.SSI START MONTH
HRS 1998:	
F272	PREV WAVE R REC SS
F273	PREV WAVE S/P REC SS
F274	PREV WAVE SSI
F4088	GD18. RECEIVE SSD/SSI
F4090	GD18B. SS STOP-YR
F4135	GD26F1. SS RECEIVE-YR
F4139	GD26J. SS-STILL RECEIVING
F4141	GD26K1. SS STOP-YR
F4498	GJ123F1.SS AWARDED - YEAR
F4502	GJ123J.STILL RECEIVING BENEFITS
F4504	GJ123K1.BENEFITS STOPPED - YEAR
F4743	J45.SOC SEC INCOME
F4744	J46.WHO RECEIVE SOC SEC INCOME
F4745	J47.R AMT RECVD SS LAST MO
F4746	J47A.R DK-1K
F4747	J47B.R DK-1,500
F4749	J47D.R DK-500
F4750	J48.R SS BENEFITS START YEAR
F4751	J49.R SS BENEFITS START MONTH
F4756	J50A1.SP HOW MUCH SS BENEFITS
F4757	J50A2.SP DK-1K
F4758	J50A3.SP DK-1,500
F4760	J50A5.SP DK-500
F4761	J50B1.SP SS BENEFITS START YEAR
F4762	J50B2.SP SS BENEFITS START MONTH
F4781	J59.R/S SSI-LAST MONTH
F4782	J60.WHO RECEIVED SSI
F4783	J61.R/S SSI \$
F4784	J61A.R/S AMT SS R DK-500
F4785	J61B.AMT SS R DK-750
F4786	J61C.AMT SS R DK-250
F4787	J62.SSI START YEAR
F4788	J62B.SSI START MONTH
HRS 2000:	
G272	PR272.PREV WAVE R REC SS
G273	PR273.PREV WAVE S/P REC SS
G274	PR274.PREV WAVE SSI
G4374	GD18AA. REC`D SSDI BENEFITS
G4378	GD18AD. SSDI START-YEAR
G4382	GD18AF. SSDI STOP-YR

G4392	GD18CC. SSDI START-YEAR
G4396	GD18CG.STILL RECEIVING SSDI BENEFITS
G4399	GD18CK. SSDI STOP-YR
G4405	GD18DF. SSDI START-YEAR
G4409	GD18DK.STILL RECEIVING SSDI BENEFITS
G4412	GD18DP. SSDI STOP-YR
G4465	GD26F1.SSD LAST APP BENEFITS START-YR
G4466	GD26G.SSD-STILL RECEIVING
G4472	GD26M1.SSD BENEFITS STOP-YR
G4870	GJ123F1.SSDI AWARDED - YEAR
G4875	GJ123J.STILL RECEIVING BENEFITS
G4877	GJ123K.BENEFITS STOPPED - YEAR
G5182	J45.SOC SEC INCOME
G5185	J46.WHO RECEIVE SOC SEC INCOME
G5186	J47.R AMT RECVD SS LAST MO
G5187	J47A.R DK-700
G5188	J47B.R DK-1000
G5190	J47D.R DK-500
G5193	J48.R SS BENEFITS START YEAR
G5194	J49.R SS BENEFITS START MONTH
G5199	J50A1.SP HOW MUCH SS BENEFITS
G5200	J50A2.SP DK-700
G5201	J50A3.SP DK-1000
G5203	J50A5.SP DK-500
G5204	J50B1.SP SS BENEFITS START YEAR
G5205	J50B2.SP SS BENEFITS START MONTH
G5224	J59.R/S SSI-LAST MONTH
G5225	J60.WHO RECEIVED SSI
G5226	J61.R/S SSI \$
G5227	J61A.R/S AMT SS R DK-500
G5228	J61B.AMT SS R DK-750
G5229	J61C.AMT SS R DK-250
G5230	J62.SSI START YEAR
G5231	J62B.SSI START MONTH
HRS 2002:	
HM030F1	HM030F1 STILL RECEIVING SSDI BENEFITS
HM030L1	HM030L1 SSDI STOP-YR
HM032B1	HM032B1 SSDI START-YR
HM032F1	HM032F1 STILL RECEIVING SSDI BENEFITS
HM032L1	HM032L1 SSDI STOP-YR
HM040K	HM040K SSDI START-YR
HM040P	HM040P STILL RECEIVING SSDI BENEFITS
HM040V	HM040VSSDI STOP-YR
HM648B1	SSDI START YEAR-1
HM648B2	SSDI START YEAR-2
HM648F1	STILL RECEIVING SSDI BENEFITS-1
HM648F2	STILL RECEIVING SSDI BENEFITS-2
HM648L1	SSDI STOP YEAR-1
HQ084	SP SOCIAL SECURITY INCOME
HQ085	R AMOUNT OF SS INCOME - LAST MONTH
HQ086	R AMT FROM SS INCOME - MIN
HQ087	R AMT FROM SS INCOME - MAX
HQ088	R AMT FROM SS INCOME - RESULT
HQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
HQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
HQ091	SP AMOUNT OF SS INCOME - LAST MONTH
HQ092	SP AMT FROM SS INCOME - MIN
HQ093	SP AMT FROM SS INCOME - MAX
HQ094	SP AMT FROM SS INCOME - RESULT

HQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
HQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
HQ105	R OR SP INCOME FROM SSI - LAST MONTH
HQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
HQ108	AMT RECEIVED FROM SSI - MIN
HQ109	AMT RECEIVED FROM SSI - MAX
HQ110	AMT RECEIVED FROM SSI - RESULT
HQ111	YEAR STARTED TO RECEIVE SSI INCOME
HQ112	MONTH STARTED TO RECEIVE SSI INCOME
HZ125	PREV WAVE R RECEIVES SS
HZ126	PREV WAVE S/P RECEIVES SS
HZ127	PREV WAVE R RECEIVES SSI
HRS 2004:	
JM030	HM030 REC SSDI/SSI/BOTH
JMW234C	HM032B2 SSDI START-YR -2
JMW234I	HM040K SSDI START-YR -3
JMW234Q	HM648B1 SSDI START YEAR-1
JMW234R	HM648B2 SSDI START-YR -2
JMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
JMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
JMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
JMW238Q	HM648F1 STILL REC SSDI BENS-1
JMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
JMW244A	HM030K1 SSDI STOP-YR
JMW244C	HM030L1 SSDI STOP-YR -2
JMW244I	HM032L1 SSDI STOP-YR -3
JMW244Q	SSDI STOP YEAR-1
JMW244R	HM648L2 SSDI STOP-YR -2
JQ084	SP SOCIAL SECURITY INCOME
JQ085	R AMOUNT OF SS INCOME - LAST MONTH
JQ086	R AMT FROM SS INCOME - MIN
JQ087	R AMT FROM SS INCOME - MAX
JQ088	R AMT FROM SS INCOME - RESULT
JQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
JQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
JQ091	SP AMOUNT OF SS INCOME - LAST MONTH
JQ092	SP AMT FROM SS INCOME - MIN
JQ093	SP AMT FROM SS INCOME - MAX
JQ094	SP AMT FROM SS INCOME - RESULT
JQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
JQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
JQ105	R OR SP INCOME FROM SSI - LAST MONTH
JQ106	WHO RECEIVED INC FROM SSI LAST MONTH
JQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
JQ108	AMT RECEIVED FROM SSI - MIN
JQ109	AMT RECEIVED FROM SSI - MAX
JQ110	AMT RECEIVED FROM SSI - RESULT
JQ111	YEAR STARTED TO RECEIVE SSI INCOME
JQ112	MONTH STARTED TO RECEIVE SSI INCOME
JZ125	PREV WAVE R RECEIVES SS
JZ126	PREV WAVE S/P RECEIVES SS
JZ127	PREV WAVE R RECEIVES SSI
HRS 2006:	
KM030	HM030 REC SSDI/SSI/BOTH
KMW234C	HM032B2 SSDI START-YR -2
KMW234I	HM040K SSDI START-YR -3
KMW234Q	HM648B1 SSDI START YEAR-1
KMW234R	HM648B2 SSDI START-YR -2

KMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
KMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
KMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
KMW238Q	HM648F1 STILL REC SSDI BENS-1
KMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
KMW244A	HM030K1 SSDI STOP-YR
KMW244C	HM030L1 SSDI STOP-YR -2
KMW244I	HM032L1 SSDI STOP-YR -3
KMW244Q	SSDI STOP YEAR-1
KMW244R	HM648L2 SSDI STOP-YR -2
KQ084	SP SOCIAL SECURITY INCOME
KQ085	R AMOUNT OF SS INCOME - LAST MONTH
KQ086	R AMT FROM SS INCOME - MIN
KQ087	R AMT FROM SS INCOME - MAX
KQ088	R AMT FROM SS INCOME - RESULT
KQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
KQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
KQ091	SP AMOUNT OF SS INCOME - LAST MONTH
KQ092	SP AMT FROM SS INCOME - MIN
KQ093	SP AMT FROM SS INCOME - MAX
KQ094	SP AMT FROM SS INCOME - RESULT
KQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
KQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
KQ105	R OR SP INCOME FROM SSI - LAST MONTH
KQ106	WHO RECEIVED INC FROM SSI LAST MONTH
KQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
KQ108	AMT RECEIVED FROM SSI - MIN
KQ109	AMT RECEIVED FROM SSI - MAX
KQ110	AMT RECEIVED FROM SSI - RESULT
KQ111	YEAR STARTED TO RECEIVE SSI INCOME
KQ112	MONTH STARTED TO RECEIVE SSI INCOME
KZ125	PREV WAVE R RECEIVES SS
KZ126	PREV WAVE S/P RECEIVES SS
KZ127	PREV WAVE R RECEIVES SSI
HRS 2008:	
LM030	HM030 REC SSDI/SSI/BOTH
LMW234C	HM032B2 SSDI START-YR -2
LMW234I	HM040K SSDI START-YR -3
LMW234Q	HM648B1 SSDI START YEAR-1
LMW234R	HM648B2 SSDI START-YR -2
LMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
LMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
LMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
LMW238Q	HM648F1 STILL REC SSDI BENS-1
LMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
LMW244A	HM030K1 SSDI STOP-YR
LMW244C	HM030L1 SSDI STOP-YR -2
LMW244I	HM032L1 SSDI STOP-YR -3
LMW244Q	SSDI STOP YEAR-1
LMW244R	HM648L2 SSDI STOP-YR -2
LQ084	SP SOCIAL SECURITY INCOME
LQ085	R AMOUNT OF SS INCOME - LAST MONTH
LQ086	R AMT FROM SS INCOME - MIN
LQ087	R AMT FROM SS INCOME - MAX
LQ088	R AMT FROM SS INCOME - RESULT
LQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
LQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
LQ091	SP AMOUNT OF SS INCOME - LAST MONTH
LQ092	SP AMT FROM SS INCOME - MIN

LQ093	SP AMT FROM SS INCOME - MAX
LQ094	SP AMT FROM SS INCOME - RESULT
LQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
LQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
LQ105	R OR SP INCOME FROM SSI - LAST MONTH
LQ106	WHO RECEIVED INC FROM SSI LAST MONTH
LQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
LQ108	AMT RECEIVED FROM SSI - MIN
LQ109	AMT RECEIVED FROM SSI - MAX
LQ110	AMT RECEIVED FROM SSI - RESULT
LQ111	YEAR STARTED TO RECEIVE SSI INCOME
LQ112	MONTH STARTED TO RECEIVE SSI INCOME
LZ125	PREV WAVE R RECEIVES SS
LZ126	PREV WAVE S/P RECEIVES SS
LZ127	PREV WAVE R RECEIVES SSI
HRS 2010:	
MM030	HM030 REC SSDI/SSI/BOTH
MMW234C	HM032B2 SSDI START-YR -2
MMW234I	HM040K SSDI START-YR -3
MMW234Q	HM648B1 SSDI START YEAR-1
MMW234R	HM648B2 SSDI START-YR -2
MMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
MMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
MMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
MMW238Q	HM648F1 STILL REC SSDI BENS-1
MMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
MMW244A	HM030K1 SSDI STOP-YR
MMW244C	HM030L1 SSDI STOP-YR -2
MMW244I	HM032L1 SSDI STOP-YR -3
MMW244Q	SSDI STOP YEAR-1
MMW244R	HM648L2 SSDI STOP-YR -2
MQ084	SP SOCIAL SECURITY INCOME
MQ085	R AMOUNT OF SS INCOME - LAST MONTH
MQ086	R AMT FROM SS INCOME - MIN
MQ087	R AMT FROM SS INCOME - MAX
MQ088	R AMT FROM SS INCOME - RESULT
MQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
MQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
MQ091	SP AMOUNT OF SS INCOME - LAST MONTH
MQ092	SP AMT FROM SS INCOME - MIN
MQ093	SP AMT FROM SS INCOME - MAX
MQ094	SP AMT FROM SS INCOME - RESULT
MQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
MQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
MQ105	R OR SP INCOME FROM SSI - LAST MONTH
MQ106	WHO RECEIVED INC FROM SSI LAST MONTH
MQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
MQ108	AMT RECEIVED FROM SSI - MIN
MQ109	AMT RECEIVED FROM SSI - MAX
MQ110	AMT RECEIVED FROM SSI - RESULT
MQ111	YEAR STARTED TO RECEIVE SSI INCOME
MQ112	MONTH STARTED TO RECEIVE SSI INCOME
MZ125	PREV WAVE R RECEIVES SS
MZ126	PREV WAVE S/P RECEIVES SS
MZ127	PREV WAVE R RECEIVES SSI
HRS 2012:	
NM030	HM030 REC SSDI/SSI/BOTH
NMW234C	HM032B2 SSDI START-YR -2
NMW234I	HM040K SSDI START-YR -3



NMW234Q	HM648B1 SSDI START YEAR-1
NMW234R	HM648B2 SSDI START-YR -2
NMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
NMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
NMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
NMW238Q	HM648F1 STILL REC SSDI BENS-1
NMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
NMW244A	HM030K1 SSDI STOP-YR
NMW244C	HM030L1 SSDI STOP-YR -2
NMW244I	HM032L1 SSDI STOP-YR -3
NMW244Q	SSDI STOP YEAR-1
NMW244R	HM648L2 SSDI STOP-YR -2
NQ084	SP SOCIAL SECURITY INCOME
NQ085	R AMOUNT OF SS INCOME - LAST MONTH
NQ086	R AMT FROM SS INCOME - MIN
NQ087	R AMT FROM SS INCOME - MAX
NQ088	R AMT FROM SS INCOME - RESULT
NQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
NQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
NQ091	SP AMOUNT OF SS INCOME - LAST MONTH
NQ092	SP AMT FROM SS INCOME - MIN
NQ093	SP AMT FROM SS INCOME - MAX
NQ094	SP AMT FROM SS INCOME - RESULT
NQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
NQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
NQ105	R OR SP INCOME FROM SSI - LAST MONTH
NQ106	WHO RECEIVED INC FROM SSI LAST MONTH
NQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
NQ108	AMT RECEIVED FROM SSI - MIN
NQ109	AMT RECEIVED FROM SSI - MAX
NQ110	AMT RECEIVED FROM SSI - RESULT
NQ111	YEAR STARTED TO RECEIVE SSI INCOME
NQ112	MONTH STARTED TO RECEIVE SSI INCOME
NZ125	PREV WAVE R RECEIVES SS
NZ126	PREV WAVE S/P RECEIVES SS
NZ127	PREV WAVE R RECEIVES SSI
HRS 2014:	
OM030	HM030 REC SSDI/SSI/BOTH
OMW234C	HM032B2 SSDI START-YR -2
OMW234I	HM040K SSDI START-YR -3
OMW234Q	HM648B1 SSDI START YEAR-1
OMW234R	HM648B2 SSDI START-YR -2
OMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
OMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
OMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
OMW238Q	HM648F1 STILL REC SSDI BENS-1
OMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
OMW244A	HM030K1 SSDI STOP-YR
OMW244C	HM030L1 SSDI STOP-YR -2
OMW244I	HM032L1 SSDI STOP-YR -3
OMW244Q	SSDI STOP YEAR-1
OMW244R	HM648L2 SSDI STOP-YR -2
OQ084	SP SOCIAL SECURITY INCOME
OQ085	R AMOUNT OF SS INCOME - LAST MONTH
OQ086	R AMT FROM SS INCOME - MIN
OQ087	R AMT FROM SS INCOME - MAX
OQ088	R AMT FROM SS INCOME - RESULT
OQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
OQ090	R MONTH STARTED TO RECEIVE SS BENEFITS

OQ091	SP AMOUNT OF SS INCOME - LAST MONTH
OQ092	SP AMT FROM SS INCOME - MIN
OQ093	SP AMT FROM SS INCOME - MAX
OQ094	SP AMT FROM SS INCOME - RESULT
OQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
OQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
OQ105	R OR SP INCOME FROM SSI - LAST MONTH
OQ106	WHO RECEIVED INC FROM SSI LAST MONTH
OQ107	AMOUNT RECEIVED FROM SSI LAST MONTH
OQ108	AMT RECEIVED FROM SSI - MIN
OQ109	AMT RECEIVED FROM SSI - MAX
OQ110	AMT RECEIVED FROM SSI - RESULT
OQ111	YEAR STARTED TO RECEIVE SSI INCOME
OQ112	MONTH STARTED TO RECEIVE SSI INCOME
OZ125	PREV WAVE R RECEIVES SS
OZ126	PREV WAVE S/P RECEIVES SS
OZ127	PREV WAVE R RECEIVES SSI

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

### Individual Income from Social Security Retirement

Wave	Variable	Label	Type
1	R1ISRET	R1ISRET:W1 Income:R SocSec Retirement	Cont
2	R2ISRET	R2ISRET:W2 Income:R SocSec Retirement	Cont
3	R3ISRET	R3ISRET:W3 Income:R SocSec Retirement	Cont
4	R4ISRET	R4ISRET:W4 Income:R SocSec Retirement	Cont
5	R5ISRET	R5ISRET:W5 Income:R SocSec Retirement	Cont
6	R6ISRET	R6ISRET:W6 Income:R SocSec Retirement	Cont
7	R7ISRET	R7ISRET:W7 Income:R SocSec Retirement	Cont
8	R8ISRET	R8ISRET:W8 Income:R SocSec Retirement	Cont
9	R9ISRET	R9ISRET:W9 Income:R SocSec Retirement	Cont
10	R10ISRET	R10ISRET:W10 Income:R SocSec Retirement	Cont
11	R11ISRET	R11ISRET:W11 Income:R SocSec Retirement	Cont
12	R12ISRET	R12ISRET:W12 Income:R SocSec Retirement	Cont
1	S1ISRET	S1ISRET:W1 Income:Sp SocSec Retirement	Cont
2	S2ISRET	S2ISRET:W2 Income:Sp SocSec Retirement	Cont
3	S3ISRET	S3ISRET:W3 Income:Sp SocSec Retirement	Cont
4	S4ISRET	S4ISRET:W4 Income:Sp SocSec Retirement	Cont
5	S5ISRET	S5ISRET:W5 Income:Sp SocSec Retirement	Cont
6	S6ISRET	S6ISRET:W6 Income:Sp SocSec Retirement	Cont
7	S7ISRET	S7ISRET:W7 Income:Sp SocSec Retirement	Cont
8	S8ISRET	S8ISRET:W8 Income:Sp SocSec Retirement	Cont
9	S9ISRET	S9ISRET:W9 Income:Sp SocSec Retirement	Cont
10	S10ISRET	S10ISRET:W10 Income:Sp SocSec Retirement	Cont
11	S11ISRET	S11ISRET:W11 Income:Sp SocSec Retirement	Cont
12	S12ISRET	S12ISRET:W12 Income:Sp SocSec Retirement	Cont
1	R1IFSRET	R1IFSRET:W1 ImpFlag:R SocSec Retirement	Categ
2	R2IFSRET	R2IFSRET:W2 ImpFlag:R SocSec Retirement	Categ
3	R3IFSRET	R3IFSRET:W3 ImpFlag:R SocSec Retirement	Categ
4	R4IFSRET	R4IFSRET:W4 ImpFlag:R SocSec Retirement	Categ
5	R5IFSRET	R5IFSRET:W5 ImpFlag:R SocSec Retirement	Categ
6	R6IFSRET	R6IFSRET:W6 ImpFlag:R SocSec Retirement	Categ
7	R7IFSRET	R7IFSRET:W7 ImpFlag:R SocSec Retirement	Categ
8	R8IFSRET	R8IFSRET:W8 ImpFlag:R SocSec Retirement	Categ
9	R9IFSRET	R9IFSRET:W9 ImpFlag:R SocSec Retirement	Categ
10	R10IFSRET	R10IFSRET:W10 ImpFlag:R SocSec Retirement	Categ
11	R11IFSRET	R11IFSRET:W11 ImpFlag:R SocSec Retirement	Categ
12	R12IFSRET	R12IFSRET:W12 ImpFlag:R SocSec Retirement	Categ
1	S1IFSRET	S1IFSRET:W1 ImpFlag:Sp SocSec Retirement	Categ
2	S2IFSRET	S2IFSRET:W2 ImpFlag:Sp SocSec Retirement	Categ
3	S3IFSRET	S3IFSRET:W3 ImpFlag:Sp SocSec Retirement	Categ
4	S4IFSRET	S4IFSRET:W4 ImpFlag:Sp SocSec Retirement	Categ
5	S5IFSRET	S5IFSRET:W5 ImpFlag:Sp SocSec Retirement	Categ
6	S6IFSRET	S6IFSRET:W6 ImpFlag:Sp SocSec Retirement	Categ
7	S7IFSRET	S7IFSRET:W7 ImpFlag:Sp SocSec Retirement	Categ
8	S8IFSRET	S8IFSRET:W8 ImpFlag:Sp SocSec Retirement	Categ
9	S9IFSRET	S9IFSRET:W9 ImpFlag:Sp SocSec Retirement	Categ
10	S10IFSRET	S10IFSRET:W10 ImpFlag:Sp SocSec Retirement	Categ
11	S11IFSRET	S11IFSRET:W11 ImpFlag:Sp SocSec Retirement	Categ
12	S12IFSRET	S12IFSRET:W12 ImpFlag:Sp SocSec Retirement	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ISRET	12652	337.05	1611.99	0.0	26000.0
R2ISRET	19642	3154.06	4147.17	0.0	26592.0
R3ISRET	17991	3630.70	4428.60	0.0	27044.8
R4ISRET	21384	4257.48	4784.85	0.0	24657.3

R5ISRET	19579	4875.40	5014.39	0.0	27122.4
R6ISRET	18165	5946.73	5624.42	0.0	31660.3
R7ISRET	20129	5743.14	5930.26	0.0	35339.9
R8ISRET	18469	6604.35	6398.68	0.0	39600.0
R9ISRET	17217	7465.85	6787.19	0.0	48000.0
R10ISRET	22034	6256.68	7365.13	0.0	50382.4
R11ISRET	20554	6768.75	7652.22	0.0	50400.0
R12ISRET	18747	7584.09	8171.55	0.0	50405.8
S1ISRET	10279	386.52	1714.07	0.0	26000.0
S2ISRET	13672	2566.38	3930.23	0.0	24000.0
S3ISRET	12333	3031.94	4280.22	0.0	26788.9
S4ISRET	14515	3612.28	4669.89	0.0	26173.7
S5ISRET	13041	4185.69	4938.89	0.0	27122.4
S6ISRET	11859	5220.19	5664.45	0.0	31660.3
S7ISRET	13352	5087.33	5934.58	0.0	36862.6
S8ISRET	12052	5892.78	6442.81	0.0	37200.0
S9ISRET	11012	6722.49	6863.26	0.0	48000.0
S10ISRET	14235	5572.76	7241.70	0.0	50382.4
S11ISRET	13080	6104.53	7648.86	0.0	50400.0
S12ISRET	11620	6798.16	8161.80	0.0	48840.0
R1IFSRET	12652	0.14	0.82	0.0	9.0
R2IFSRET	19642	0.59	0.93	0.0	9.0
R3IFSRET	17991	0.68	0.98	0.0	9.0
R4IFSRET	21384	0.71	1.03	0.0	9.0
R5IFSRET	19579	0.74	0.94	0.0	9.0
R6IFSRET	18165	0.79	0.74	0.0	9.0
R7IFSRET	20129	0.72	0.81	0.0	9.0
R8IFSRET	18469	0.77	0.78	0.0	9.0
R9IFSRET	17217	0.81	0.81	0.0	9.0
R10IFSRET	22034	0.75	1.21	0.0	9.0
R11IFSRET	20554	0.72	0.98	0.0	9.0
R12IFSRET	18747	0.77	1.04	0.0	9.0
S1IFSRET	12652	1.63	3.17	0.0	9.0
S2IFSRET	19642	2.78	3.54	0.0	9.0
S3IFSRET	17991	2.93	3.53	0.0	9.0
S4IFSRET	21384	3.01	3.56	0.0	9.0
S5IFSRET	19579	3.11	3.55	0.0	9.0
S6IFSRET	18165	3.25	3.52	0.0	9.0
S7IFSRET	20129	3.14	3.54	0.0	9.0
S8IFSRET	18469	3.24	3.54	0.0	9.0
S9IFSRET	17217	3.37	3.55	0.0	9.0
S10IFSRET	22034	3.30	3.64	0.0	9.0
S11IFSRET	20554	3.35	3.62	0.0	9.0
S12IFSRET	18747	3.50	3.64	0.0	9.0

## Categorical Variable Codes

Value	R1IFSRET	R2IFSRET	R3IFSRET	R4IFSRET	R5IFSRET	R6IFSRET	R7IFSRET
0.No income	11807	10416	8802	9703	7939	6239	8068
1.No imputations	634	7853	6985	9657	9712	9828	10042
2.Some imputation	116	1240	2078	1818	1791	2060	1946
9.No Fin Resp	95	133	126	206	137	38	73

Value	R8IFSRET	R9IFSRET	R10IFSRET	R11IFSRET	R12IFSRET
0.No income	6694	5697	10343	9177	7875
1.No imputations	9808	9522	9225	8981	8624
2.Some imputation	1910	1932	2139	2239	2072
9.No Fin Resp	57	66	327	157	176

Value	S1IFSRET	S2IFSRET	S3IFSRET	S4IFSRET	S5IFSRET	S6IFSRET	S7IFSRET
0.No income	9512	8384	6872	7552	6184	4824	6112
1.No imputations	573	4486	4164	5753	5720	5798	5979
2.Some imputation	99	700	1211	1025	1044	1204	1192
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	102	86	185	93	33	69

Value	S8IFSRET	S9IFSRET	S10IFSRET	S11IFSRET	S12IFSRET
0.No income	5068	4253	7306	6441	5480
1.No imputations	5807	5563	5371	5157	4773
2.Some imputation	1128	1138	1284	1342	1216
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	49	58	274	140	151

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

RwISRET is the Respondent's income from Social Security retirement, spouse or widow benefits. RwIFSRET is a flag that indicates whether any components are imputed.

SwISRET is the spouse's income from Social Security retirement, spouse or widow benefits. SwIFSRET is a flag that indicates whether any components are imputed.

In Waves 1 and 2A, Social Security income could be reported individually or, if the Respondent is married, jointly. If the income is reported jointly, the income is split between the Respondent and spouse.

In Wave 1, the questions ask the annual amount of Social Security received in 1991. From Wave 2 forward, a monthly amount is asked and the first month received is also asked. The variable derivation checks the months income was received and multiplies the monthly amount appropriately to calculate a yearly amount.

In Waves 1, 2, and 3A, the type of Social Security income received is reported. From Wave 3H forward, variables in the disability section indicating whether the Respondent and spouse receive Social Security disability are used to determine whether Social Security reported in the income section is disability income or not.

In Wave 3A, Respondents and spouses who received income from Social Security are asked to indicate what type of benefit (i.e., retirement, disability, survivor benefits, dependent of disabled or retired, or other). People list up to two types of Social Security benefits. However, the questions about how much they received do not make a distinction between amounts received from each type of benefit, but simply lump them together. Therefore, we decided that if a person reports receiving retirement income, even if s/he also report getting another type of income from Social Security (EXCEPT disability), the amount s/he indicated would be considered retirement income.

From Wave 7 forward, an additional response option ("6. SSDI HAS CONVERTED TO SOCIAL SECURITY (VOL)") was added to the question about benefits from the Social Security Disability or Supplemental Security Income program. There were fewer than 50 individuals who selected this category. We added logic to check the ages of these individuals before designating them as receiving social security retirement income. Specifically, we required that a person be greater than 66 years of age at the time of the interview, or have an end year for her/his social security income before last calendar year, to make them have retirement instead of disability income.

Beginning in Version F, we incorporated logic in Waves 1 and 2H and from Wave 3H forward that examines the ages of Respondents and spouses. For those who are greater than 66 years of age at the time of the interview and receive Social Security disability income, we override this and instead assign the income to retirement. This is based on the notion that these individuals turned 65 or 66 (i.e., retirement age) during the last calendar year, at which point disability benefits automatically convert to retirement benefits. [See Appendix A for a description of how many cases were affected by this change.]

RwISRET and SwISRET only include Social Security income if it is NOT received due to disability.

The RwIFSS, SwIFSS, and HwIFSSJ flags indicate whether the components are imputed, and if so, how much information is available to impute from. RwIFSS flags the Respondent's individual income, SwIFSS flags the spouse's individual income, and HwIFSSJ flags Waves 1 and 2A income that is received as a joint check. These variables are available in RAND HRS

### Detailed Imputations File.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For HRS entry cohort Respondents, H2IFSSJ is set to .Q to indicate that the corresponding income components are not available in Wave 2.

### Cross Wave Differences in Original HRS Data

The way the Social Security income questions are asked varies across waves.

In Wave 1, the questions ask the annual amount of social security received in 1991. In Wave 1 and Wave 2A, if the Respondent and spouse receive a joint check only, one amount is asked; if they receive separate checks, amounts are asked for each individual. From Wave 2 forward, a monthly amount is asked. The first month Social Security received is also asked.

In Waves 1, 2, and 3A, the type of Social Security income received is asked. The type can be retirement, disability, survivor benefits, dependent of retired, dependent of disabled or other. In Wave 1, if a joint check is received, the type is not asked. From Wave 3H forward, the type of Social Security income is not asked.

From Wave 3 forward, if the Respondent refuses or does not know the value of monthly Social Security income, a series of unfolding bracket questions are asked. The bracket amounts for Social Security income change in Wave 5 but otherwise are the same across waves. The exception to this is in Wave 3A, where the bracket amounts are based on the last year rather than the last month. In Waves 1 and 2, no unfolding bracket questions are asked.

Beginning in Wave 6, there are two possible sources of information about whether the spouse receives social security: (1) the Financial Respondent's report in the income section (Section Q); and (2) the spouse's self-report in the employment section (Section J). To determine whether the spouse has any social security income, we use the spouse's self-report. However, if the spouse did not respond, or the self-report is missing, we use the Financial Respondent's report. Our rationale for doing this is that the self-report is probably more accurate. It is also important to note that the self-report in the employment section is the only question about whether the Financial Respondent receives social security income.

From Wave 7 forward, an additional response option ("6. SSDI HAS CONVERTED TO SOCIAL SECURITY (VOL)") was added to the following question, which helped us determine whether the type of social security income being received was for retirement or disability:

According to our records, in [PREV WAVE FIRST R IW MONTH]/[Prev Wave Iw Mo] [Previous Wave First R Interview Year]/[Prev Wave Iw Yr] you were receiving benefits from the Social Security Disability program or the Supplemental Security Income program. Which program was this: the Social Security Disability or the Supplemental Security Income program, or both?

For HRS Respondents in Wave 2, the income components corresponding to imputation flag H2IFSSJ are not available.

### HRS Variables Used

HRS 1992:

V16001	N41:SS:RCV SOC SEC I:IND
V16003	N41B:SS: AMT RECD I:IND
V16012	N42A:SS:R1: AMT REC:IND
V16021	N42A:SS:R2 AMT RECV:IND
V16030	N43A:SS:R1: AMT REC:IND
V16107	N44A:SS:R2 AMT RECV:IND
V6001	N41:SS:RCV SOC SEC I:IMP

V6002	N41A:SS:1CHK/SEPARATE CK
V6003	N41B:SS: AMT RECVD :IMP
V6006	N42:SS:R1RETIREMENT
V6008	N42:SS:R1SURVIVORS BEN
V6009	N42:SS:R1DEPND OF DISAB
V6010	N42:SS:R1DEPND OR RETIR
V6011	N42:SS:R1OTHER
V6012	N42A:SS:R1 AMT RECV:IMP
V6015	N42:SS:R2RETIREMENT
V6017	N42:SS:R2SURVIVORS BEN
V6018	N42:SS:R2DEPND OF DISAB
V6019	N42:SS:R2DEPND OR RETIR
V6020	N42:SS:R2OTHER
V6021	N42A:SS:R2 AMT RECV:IMP
V6024	N43:SS:R1RETIREMENT
V6026	N43:SS:R1SURVIVORS BENFT
V6027	N43:SS:R1DPEND OF DSABLD
V6028	N43:SS:R1DPEND OF RTIRED
V6029	N43:SS:R1OTHER
V6030	N43A:SS:R1 AMT RECV:IMP
V6101	N44:SS:R2RETIREMENT
V6103	N44:SS:R2SURVIVORS BENFT
V6104	N44:SS:R2DPEND OF DSABLD
V6105	N44:SS:R2DPEND OF RTIRED
V6106	N44:SS:R2OTHER
V6107	N44A:SS:R2 AMT RECV:IMP
AHEAD 1993:	
B1376	J1. SS: RECEIVE ANY
B1377	J1a. SS: 1 OR 2 CHECKS
B1378	J2. SS: R TYPE
B1379	J2b. SS: R \$ LAST MONTH
B1381	J2d. SS: R START MONTH
B1382	J2e. SS: R START YEAR
B1389	J3. SS: SP TYPE
B1390	J3a. SS: SP \$ LAST MONTH
B1392	J3c. SS: SP START MONTH
B1393	J3d. SS: SP START YEAR
HRS 1994:	
W16253	N23. Imputation flag
W16254	N23a. Imputation flag
W16260	N23c. Imputation flag
W16268	N23g. Imputation flag
W6253	N23.SOCIAL SECURITY?
W6254	N23a.WHO RECEIVED SOCIAL
W6255	N23b.TYPE SOCIAL SECURIT
W6256	N23b.TYPE SOCIAL SECURIT
W6260	N23c.AMT SS LAST MONTH
W6261	N23e.START RECEIVING SS-
W6262	N23e.START RECEIVING SS-
W6263	N23f.SP-TYPE SOCIAL SECU
W6264	N23f.SP-TYPE SOCIAL SECU
W6268	N23g.SP-AMT SS LAST MONT
W6269	N23h.SP-START RECEIVING
W6270	N23h.SP-START RECEIVING
AHEAD 1995:	
D3875	J1.RECEIVE SOC SEC
D3877M1	J2.R TYPE SOC SEC
D3877M2	J2.R TYPE SOC SEC
D3878	J3.AMT SOC SEC LAST MNTH



D3879	J3A.AMT SS R DK-1
D3880	J3B.AMT SS R DK-2
D3881	J3C.AMT SS R DK-3
D3883	J4A.MONTH START SOC SEC
D3884	J4A.YEAR START SOC SEC
D3885	J5.SP REC SS
D3886M1	J5A.SP TYPE SOC SEC
D3886M2	J5A.SP TYPE SOC SEC
D3888	J6.AMT SOC SEC LAST MNTH SP/PT
D3889	J6A.AMT SS S DK-1
D3890	J6B.AMT SS S DK-2
D3891	J6C.AMT SS S DK-3
D3893	J7A.MONTH START SOC SEC SP/PT
D3894	J7B.YEAR START SOC SEC SP/PT
HRS 1996:	
E3580	GD18. RECEIVE SSD/SSI
E3582	GD18B. SS STOP-YR
E3606	GD26F1. SS RECEIVE-YR
E3614	GD26J. SS-STILL RECEIVING
E3616	GD26K1. SS STOP-YR
E3983	J45.SOC SEC INCOME
E3984	J46.WHO RECEIVE SOC SEC INCOME
E3985	J47.R AMT RECVD SS LAST MO
E3986	J47A.R \$ RECVD SS LAST MO DK-1K
E3987	J47B.R \$ RECVD SS LAST MO DK-1.5K
E3989	J47D.R \$ RECVD SS LAST MO DK-500
E3990	J48.R RECV SS BENEFITS START YEAR
E3991	J49.SS BENEFITS START MONTH
E3996	J50A1.SP HOW MUCH SS BENEFITS
E3997	J50A2.SP \$ SS BENEFITS DK-1K
E3998	J50A3.SP \$ SS BENEFITS DK-1.5K
E4000	J50A5.SP \$ SS BENEFITS DK-500
E4001	J50B1.SP BENEFITS START - YEAR
E4002	J50B2.SP BENEFITS START - MONTH
HRS 1998:	
F272	PREV WAVE R REC SS
F273	PREV WAVE S/P REC SS
F4088	GD18. RECEIVE SSD/SSI
F4090	GD18B. SS STOP-YR
F4135	GD26F1. SS RECEIVE-YR
F4139	GD26J. SS-STILL RECEIVING
F4141	GD26K1. SS STOP-YR
F4498	GJ123F1.SS AWARDED - YEAR
F4502	GJ123J.STILL RECEIVING BENEFITS
F4504	GJ123K1.BENEFITS STOPPED - YEAR
F4743	J45.SOC SEC INCOME
F4744	J46.WHO RECEIVE SOC SEC INCOME
F4745	J47.R AMT RECVD SS LAST MO
F4746	J47A.R DK-1K
F4747	J47B.R DK-1,500
F4749	J47D.R DK-500
F4750	J48.R SS BENEFITS START YEAR
F4751	J49.R SS BENEFITS START MONTH
F4756	J50A1.SP HOW MUCH SS BENEFITS
F4757	J50A2.SP DK-1K
F4758	J50A3.SP DK-1,500
F4760	J50A5.SP DK-500
F4761	J50B1.SP SS BENEFITS START YEAR
F4762	J50B2.SP SS BENEFITS START MONTH

## HRS 2000:

G272 PR272.PREV WAVE R REC SS  
 G273 PR273.PREV WAVE S/P REC SS  
 G4374 GD18AA. REC`D SSDI BENEFITS  
 G4378 GD18AD. SSDI START-YEAR  
 G4382 GD18AF. SSDI STOP-YR  
 G4392 GD18CC. SSDI START-YEAR  
 G4396 GD18CG. STILL RECEIVING SSDI BENEFITS  
 G4399 GD18CK. SSDI STOP-YR  
 G4405 GD18DF. SSDI START-YEAR  
 G4409 GD18DK. STILL RECEIVING SSDI BENEFITS  
 G4412 GD18DP. SSDI STOP-YR  
 G4465 GD26F1. SSD LAST APP BENEFITS START-YR  
 G4466 GD26G. SSD-STILL RECEIVING  
 G4472 GD26M1. SSD BENEFITS STOP-YR  
 G4870 GJ123F1. SSDI AWARDED - YEAR  
 G4875 GJ123J. STILL RECEIVING BENEFITS  
 G4877 GJ123K. BENEFITS STOPPED - YEAR  
 G5182 J45. SOC SEC INCOME  
 G5185 J46. WHO RECEIVE SOC SEC INCOME  
 G5186 J47. R AMT RECVD SS LAST MO  
 G5187 J47A. R DK-700  
 G5188 J47B. R DK-1000  
 G5190 J47D. R DK-500  
 G5193 J48. R SS BENEFITS START YEAR  
 G5194 J49. R SS BENEFITS START MONTH  
 G5199 J50A1. SP HOW MUCH SS BENEFITS  
 G5200 J50A2. SP DK-700  
 G5201 J50A3. SP DK-1000  
 G5203 J50A5. SP DK-500  
 G5204 J50B1. SP SS BENEFITS START YEAR  
 G5205 J50B2. SP SS BENEFITS START MONTH

## HRS 2002:

HM030F1 HM030F1 STILL RECEIVING SSDI BENEFITS  
 HM030L1 HM030L1 SSDI STOP-YR  
 HM032B1 HM032B1 SSDI START-YR  
 HM032F1 HM032F1 STILL RECEIVING SSDI BENEFITS  
 HM032L1 HM032L1 SSDI STOP-YR  
 HM040K HM040K SSDI START-YR  
 HM040P HM040P STILL RECEIVING SSDI BENEFITS  
 HM040V HM040VSSDI STOP-YR  
 HM648B1 SSDI START YEAR-1  
 HM648B2 SSDI START YEAR-2  
 HM648F1 STILL RECEIVING SSDI BENEFITS-1  
 HM648F2 STILL RECEIVING SSDI BENEFITS-2  
 HM648L1 SSDI STOP YEAR-1  
 HQ084 SP SOCIAL SECURITY INCOME  
 HQ085 R AMOUNT OF SS INCOME - LAST MONTH  
 HQ086 R AMT FROM SS INCOME - MIN  
 HQ087 R AMT FROM SS INCOME - MAX  
 HQ088 R AMT FROM SS INCOME - RESULT  
 HQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 HQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 HQ091 SP AMOUNT OF SS INCOME - LAST MONTH  
 HQ092 SP AMT FROM SS INCOME - MIN  
 HQ093 SP AMT FROM SS INCOME - MAX  
 HQ094 SP AMT FROM SS INCOME - RESULT  
 HQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 HQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS

HQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HZ125	PREV WAVE R RECEIVES SS
HZ126	PREV WAVE S/P RECEIVES SS
HRS 2004:	
JM030	HM030 REC SSDI/SSI/BOTH
JMW234C	HM032B2 SSDI START-YR -2
JMW234I	HM040K SSDI START-YR -3
JMW234Q	HM648B1 SSDI START YEAR-1
JMW234R	HM648B2 SSDI START-YR -2
JMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
JMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
JMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
JMW238Q	HM648F1 STILL REC SSDI BENS-1
JMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
JMW244A	HM030K1 SSDI STOP-YR
JMW244C	HM030L1 SSDI STOP-YR -2
JMW244I	HM032L1 SSDI STOP-YR -3
JMW244Q	SSDI STOP YEAR-1
JMW244R	HM648L2 SSDI STOP-YR -2
JQ084	SP SOCIAL SECURITY INCOME
JQ085	R AMOUNT OF SS INCOME - LAST MONTH
JQ086	R AMT FROM SS INCOME - MIN
JQ087	R AMT FROM SS INCOME - MAX
JQ088	R AMT FROM SS INCOME - RESULT
JQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
JQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
JQ091	SP AMOUNT OF SS INCOME - LAST MONTH
JQ092	SP AMT FROM SS INCOME - MIN
JQ093	SP AMT FROM SS INCOME - MAX
JQ094	SP AMT FROM SS INCOME - RESULT
JQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
JQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
JQ106	WHO RECEIVED INC FROM SSI LAST MONTH
JZ125	PREV WAVE R RECEIVES SS
JZ126	PREV WAVE S/P RECEIVES SS
HRS 2006:	
KM030	HM030 REC SSDI/SSI/BOTH
KMW234C	HM032B2 SSDI START-YR -2
KMW234I	HM040K SSDI START-YR -3
KMW234Q	HM648B1 SSDI START YEAR-1
KMW234R	HM648B2 SSDI START-YR -2
KMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
KMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
KMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
KMW238Q	HM648F1 STILL REC SSDI BENS-1
KMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
KMW244A	HM030K1 SSDI STOP-YR
KMW244C	HM030L1 SSDI STOP-YR -2
KMW244I	HM032L1 SSDI STOP-YR -3
KMW244Q	SSDI STOP YEAR-1
KMW244R	HM648L2 SSDI STOP-YR -2
KQ084	SP SOCIAL SECURITY INCOME
KQ085	R AMOUNT OF SS INCOME - LAST MONTH
KQ086	R AMT FROM SS INCOME - MIN
KQ087	R AMT FROM SS INCOME - MAX
KQ088	R AMT FROM SS INCOME - RESULT
KQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
KQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
KQ091	SP AMOUNT OF SS INCOME - LAST MONTH

KQ092	SP AMT FROM SS INCOME - MIN
KQ093	SP AMT FROM SS INCOME - MAX
KQ094	SP AMT FROM SS INCOME - RESULT
KQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
KQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
KQ106	WHO RECEIVED INC FROM SSI LAST MONTH
KZ125	PREV WAVE R RECEIVES SS
KZ126	PREV WAVE S/P RECEIVES SS
HRS 2008:	
LM030	HM030 REC SSDI/SSI/BOTH
LMW234C	HM032B2 SSDI START-YR -2
LMW234I	HM040K SSDI START-YR -3
LMW234Q	HM648B1 SSDI START YEAR-1
LMW234R	HM648B2 SSDI START-YR -2
LMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
LMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
LMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
LMW238Q	HM648F1 STILL REC SSDI BENS-1
LMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
LMW244A	HM030K1 SSDI STOP-YR
LMW244C	HM030L1 SSDI STOP-YR -2
LMW244I	HM032L1 SSDI STOP-YR -3
LMW244Q	SSDI STOP YEAR-1
LMW244R	HM648L2 SSDI STOP-YR -2
LQ084	SP SOCIAL SECURITY INCOME
LQ085	R AMOUNT OF SS INCOME - LAST MONTH
LQ086	R AMT FROM SS INCOME - MIN
LQ087	R AMT FROM SS INCOME - MAX
LQ088	R AMT FROM SS INCOME - RESULT
LQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
LQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
LQ091	SP AMOUNT OF SS INCOME - LAST MONTH
LQ092	SP AMT FROM SS INCOME - MIN
LQ093	SP AMT FROM SS INCOME - MAX
LQ094	SP AMT FROM SS INCOME - RESULT
LQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
LQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
LQ106	WHO RECEIVED INC FROM SSI LAST MONTH
LZ125	PREV WAVE R RECEIVES SS
LZ126	PREV WAVE S/P RECEIVES SS
HRS 2010:	
MM030	HM030 REC SSDI/SSI/BOTH
MMW234C	HM032B2 SSDI START-YR -2
MMW234I	HM040K SSDI START-YR -3
MMW234Q	HM648B1 SSDI START YEAR-1
MMW234R	HM648B2 SSDI START-YR -2
MMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
MMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
MMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
MMW238Q	HM648F1 STILL REC SSDI BENS-1
MMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
MMW244A	HM030K1 SSDI STOP-YR
MMW244C	HM030L1 SSDI STOP-YR -2
MMW244I	HM032L1 SSDI STOP-YR -3
MMW244Q	SSDI STOP YEAR-1
MMW244R	HM648L2 SSDI STOP-YR -2
MQ084	SP SOCIAL SECURITY INCOME
MQ085	R AMOUNT OF SS INCOME - LAST MONTH
MQ086	R AMT FROM SS INCOME - MIN

MQ087	R AMT FROM SS INCOME - MAX
MQ088	R AMT FROM SS INCOME - RESULT
MQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
MQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
MQ091	SP AMOUNT OF SS INCOME - LAST MONTH
MQ092	SP AMT FROM SS INCOME - MIN
MQ093	SP AMT FROM SS INCOME - MAX
MQ094	SP AMT FROM SS INCOME - RESULT
MQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
MQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
MQ106	WHO RECEIVED INC FROM SSI LAST MONTH
MZ125	PREV WAVE R RECEIVES SS
MZ126	PREV WAVE S/P RECEIVES SS
HRS 2012:	
NM030	HM030 REC SSDI/SSI/BOTH
NMW234C	HM032B2 SSDI START-YR -2
NMW234I	HM040K SSDI START-YR -3
NMW234Q	HM648B1 SSDI START YEAR-1
NMW234R	HM648B2 SSDI START-YR -2
NMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
NMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
NMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
NMW238Q	HM648F1 STILL REC SSDI BENS-1
NMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
NMW244A	HM030K1 SSDI STOP-YR
NMW244C	HM030L1 SSDI STOP-YR -2
NMW244I	HM032L1 SSDI STOP-YR -3
NMW244Q	SSDI STOP YEAR-1
NMW244R	HM648L2 SSDI STOP-YR -2
NQ084	SP SOCIAL SECURITY INCOME
NQ085	R AMOUNT OF SS INCOME - LAST MONTH
NQ086	R AMT FROM SS INCOME - MIN
NQ087	R AMT FROM SS INCOME - MAX
NQ088	R AMT FROM SS INCOME - RESULT
NQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
NQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
NQ091	SP AMOUNT OF SS INCOME - LAST MONTH
NQ092	SP AMT FROM SS INCOME - MIN
NQ093	SP AMT FROM SS INCOME - MAX
NQ094	SP AMT FROM SS INCOME - RESULT
NQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
NQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
NQ106	WHO RECEIVED INC FROM SSI LAST MONTH
NZ125	PREV WAVE R RECEIVES SS
NZ126	PREV WAVE S/P RECEIVES SS
HRS 2014:	
OM030	HM030 REC SSDI/SSI/BOTH
OMW234C	HM032B2 SSDI START-YR -2
OMW234I	HM040K SSDI START-YR -3
OMW234Q	HM648B1 SSDI START YEAR-1
OMW234R	HM648B2 SSDI START-YR -2
OMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
OMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
OMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
OMW238Q	HM648F1 STILL REC SSDI BENS-1
OMW238R	HM648F2 STILL RECEIVING SSDI BENEFITS -2
OMW244A	HM030K1 SSDI STOP-YR
OMW244C	HM030L1 SSDI STOP-YR -2
OMW244I	HM032L1 SSDI STOP-YR -3

OMW244Q	SSDI STOP YEAR-1
OMW244R	HM648L2 SSDI STOP-YR -2
OQ084	SP SOCIAL SECURITY INCOME
OQ085	R AMOUNT OF SS INCOME - LAST MONTH
OQ086	R AMT FROM SS INCOME - MIN
OQ087	R AMT FROM SS INCOME - MAX
OQ088	R AMT FROM SS INCOME - RESULT
OQ089	R YEAR STARTED TO RECEIVE SS BENEFITS
OQ090	R MONTH STARTED TO RECEIVE SS BENEFITS
OQ091	SP AMOUNT OF SS INCOME - LAST MONTH
OQ092	SP AMT FROM SS INCOME - MIN
OQ093	SP AMT FROM SS INCOME - MAX
OQ094	SP AMT FROM SS INCOME - RESULT
OQ095	SP YEAR STARTED TO RECEIVE SS BENEFITS
OQ096	SP MONTH STARTED TO RECEIVE SS BENEFITS
OQ106	WHO RECEIVED INC FROM SSI LAST MONTH
OZ125	PREV WAVE R RECEIVES SS
OZ126	PREV WAVE S/P RECEIVES SS

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

### Individual Unemployment or Workers Compensation

Wave	Variable	Label	Type
1	R1IUNWC	R1IUNWC:W1 Income:R Unemp + Workers Comp	Cont
2	R2IUNWC	R2IUNWC:W2 Income:R Unemp + Workers Comp	Cont
3	R3IUNWC	R3IUNWC:W3 Income:R Unemp + Workers Comp	Cont
4	R4IUNWC	R4IUNWC:W4 Income:R Unemp + Workers Comp	Cont
5	R5IUNWC	R5IUNWC:W5 Income:R Unemp + Workers Comp	Cont
6	R6IUNWC	R6IUNWC:W6 Income:R Unemp + Workers Comp	Cont
7	R7IUNWC	R7IUNWC:W7 Income:R Unemp + Workers Comp	Cont
8	R8IUNWC	R8IUNWC:W8 Income:R Unemp + Workers Comp	Cont
9	R9IUNWC	R9IUNWC:W9 Income:R Unemp + Workers Comp	Cont
10	R10IUNWC	R10IUNWC:W10 Income:R Unemp + Workers Comp	Cont
11	R11IUNWC	R11IUNWC:W11 Income:R Unemp + Workers Comp	Cont
12	R12IUNWC	R12IUNWC:W12 Income:R Unemp + Workers Comp	Cont
1	S1IUNWC	S1IUNWC:W1 Income:Sp Unemp + Workers Comp	Cont
2	S2IUNWC	S2IUNWC:W2 Income:Sp Unemp + Workers Comp	Cont
3	S3IUNWC	S3IUNWC:W3 Income:Sp Unemp + Workers Comp	Cont
4	S4IUNWC	S4IUNWC:W4 Income:Sp Unemp + Workers Comp	Cont
5	S5IUNWC	S5IUNWC:W5 Income:Sp Unemp + Workers Comp	Cont
6	S6IUNWC	S6IUNWC:W6 Income:Sp Unemp + Workers Comp	Cont
7	S7IUNWC	S7IUNWC:W7 Income:Sp Unemp + Workers Comp	Cont
8	S8IUNWC	S8IUNWC:W8 Income:Sp Unemp + Workers Comp	Cont
9	S9IUNWC	S9IUNWC:W9 Income:Sp Unemp + Workers Comp	Cont
10	S10IUNWC	S10IUNWC:W10 Income:Sp Unemp + Workers Comp	Cont
11	S11IUNWC	S11IUNWC:W11 Income:Sp Unemp + Workers Comp	Cont
12	S12IUNWC	S12IUNWC:W12 Income:Sp Unemp + Workers Comp	Cont
1	R1IFUNWC	R1IFUNWC:W1 ImpFlag:R Unemp + Workers Comp	Categ
2	R2IFUNWC	R2IFUNWC:W2 ImpFlag:R Unemp + Workers Comp	Categ
3	R3IFUNWC	R3IFUNWC:W3 ImpFlag:R Unemp + Workers Comp	Categ
4	R4IFUNWC	R4IFUNWC:W4 ImpFlag:R Unemp + Workers Comp	Categ
5	R5IFUNWC	R5IFUNWC:W5 ImpFlag:R Unemp + Workers Comp	Categ
6	R6IFUNWC	R6IFUNWC:W6 ImpFlag:R Unemp + Workers Comp	Categ
7	R7IFUNWC	R7IFUNWC:W7 ImpFlag:R Unemp + Workers Comp	Categ
8	R8IFUNWC	R8IFUNWC:W8 ImpFlag:R Unemp + Workers Comp	Categ
9	R9IFUNWC	R9IFUNWC:W9 ImpFlag:R Unemp + Workers Comp	Categ
10	R10IFUNWC	R10IFUNWC:W10 ImpFlag:R Unemp + Workers Comp	Categ
11	R11IFUNWC	R11IFUNWC:W11 ImpFlag:R Unemp + Workers Comp	Categ
12	R12IFUNWC	R12IFUNWC:W12 ImpFlag:R Unemp + Workers Comp	Categ
1	S1IFUNWC	S1IFUNWC:W1 ImpFlag:Sp Unemp + Workers Comp	Categ
2	S2IFUNWC	S2IFUNWC:W2 ImpFlag:Sp Unemp + WorkerComp	Categ
3	S3IFUNWC	S3IFUNWC:W3 ImpFlag:Sp Unemp + WorkerComp	Categ
4	S4IFUNWC	S4IFUNWC:W4 ImpFlag:Sp Unemp + Workers Comp	Categ
5	S5IFUNWC	S5IFUNWC:W5 ImpFlag:Sp Unemp + Workers Comp	Categ
6	S6IFUNWC	S6IFUNWC:W6 ImpFlag:Sp Unemp + WorkerComp	Categ
7	S7IFUNWC	S7IFUNWC:W7 ImpFlag:Sp Unemp + Workers Comp	Categ
8	S8IFUNWC	S8IFUNWC:W8 ImpFlag:Sp Unemp + Workers Comp	Categ
9	S9IFUNWC	S9IFUNWC:W9 ImpFlag:Sp Unemp + Workers Comp	Categ
10	S10IFUNWC	S10IFUNWC:W10 ImpFlag:Sp Unemp + Workers Comp	Categ
11	S11IFUNWC	S11IFUNWC:W11 ImpFlag:Sp Unemp + Workers Comp	Categ
12	S12IFUNWC	S12IFUNWC:W12 ImpFlag:Sp Unemp + Workers Comp	Categ
1	R1IUNEM	R1IUNEM:W1 Income:R Unemployment	Cont
2	R2IUNEM	R2IUNEM:W2 Income:R Unemployment	Cont
3	R3IUNEM	R3IUNEM:W3 Income:R Unemployment	Cont
4	R4IUNEM	R4IUNEM:W4 Income:R Unemployment	Cont
5	R5IUNEM	R5IUNEM:W5 Income:R Unemployment	Cont
6	R6IUNEM	R6IUNEM:W6 Income:R Unemployment	Cont
7	R7IUNEM	R7IUNEM:W7 Income:R Unemployment	Cont
8	R8IUNEM	R8IUNEM:W8 Income:R Unemployment	Cont
9	R9IUNEM	R9IUNEM:W9 Income:R Unemployment	Cont
10	R10IUNEM	R10IUNEM:W10 Income:R Unemployment	Cont
11	R11IUNEM	R11IUNEM:W11 Income:R Unemployment	Cont
12	R12IUNEM	R12IUNEM:W12 Income:R Unemployment	Cont
1	S1IUNEM	S1IUNEM:W1 Income:Sp unemployment	Cont

2	S2IUNEM	S2IUNEM:W2	Income:Sp unemployment	Cont
3	S3IUNEM	S3IUNEM:W3	Income:Sp unemployment	Cont
4	S4IUNEM	S4IUNEM:W4	Income:Sp unemployment	Cont
5	S5IUNEM	S5IUNEM:W5	Income:Sp unemployment	Cont
6	S6IUNEM	S6IUNEM:W6	Income:Sp unemployment	Cont
7	S7IUNEM	S7IUNEM:W7	Income:Sp unemployment	Cont
8	S8IUNEM	S8IUNEM:W8	Income:Sp unemployment	Cont
9	S9IUNEM	S9IUNEM:W9	Income:Sp unemployment	Cont
10	S10IUNEM	S10IUNEM:W10	Income:Sp unemployment	Cont
11	S11IUNEM	S11IUNEM:W11	Income:Sp unemployment	Cont
12	S12IUNEM	S12IUNEM:W12	Income:Sp unemployment	Cont
1	R1IFUNEM	R1IFUNEM:W1	IncFlag:R Unemployment	Categ
2	R2IFUNEM	R2IFUNEM:W2	IncFlag:R Unemployment	Categ
3	R3IFUNEM	R3IFUNEM:W3	IncFlag:R Unemployment	Categ
4	R4IFUNEM	R4IFUNEM:W4	IncFlag:R Unemployment	Categ
5	R5IFUNEM	R5IFUNEM:W5	IncFlag:R Unemployment	Categ
6	R6IFUNEM	R6IFUNEM:W6	IncFlag:R Unemployment	Categ
7	R7IFUNEM	R7IFUNEM:W7	IncFlag:R Unemployment	Categ
8	R8IFUNEM	R8IFUNEM:W8	IncFlag:R Unemployment	Categ
9	R9IFUNEM	R9IFUNEM:W9	IncFlag:R Unemployment	Categ
10	R10IFUNEM	R10IFUNEM:W10	IncFlag:R Unemployment	Categ
11	R11IFUNEM	R11IFUNEM:W11	IncFlag:R Unemployment	Categ
12	R12IFUNEM	R12IFUNEM:W12	IncFlag:R Unemployment	Categ
1	S1IFUNEM	S1IFUNEM:W1	IncFlag:Sp Unemployment	Categ
2	S2IFUNEM	S2IFUNEM:W2	IncFlag:Sp Unemployment	Categ
3	S3IFUNEM	S3IFUNEM:W3	IncFlag:Sp Unemployment	Categ
4	S4IFUNEM	S4IFUNEM:W4	IncFlag:Sp Unemployment	Categ
5	S5IFUNEM	S5IFUNEM:W5	IncFlag:Sp Unemployment	Categ
6	S6IFUNEM	S6IFUNEM:W6	IncFlag:Sp Unemployment	Categ
7	S7IFUNEM	S7IFUNEM:W7	IncFlag:Sp Unemployment	Categ
8	S8IFUNEM	S8IFUNEM:W8	IncFlag:Sp Unemployment	Categ
9	S9IFUNEM	S9IFUNEM:W9	IncFlag:Sp Unemployment	Categ
10	S10IFUNEM	S10IFUNEM:W10	IncFlag:Sp Unemployment	Categ
11	S11IFUNEM	S11IFUNEM:W11	IncFlag:Sp Unemployment	Categ
12	S12IFUNEM	S12IFUNEM:W12	IncFlag:Sp Unemployment	Categ
1	R1IWCMP	R1IWCMP:W1	Income:R Worker Comp	Cont
2	R2IWCMP	R2IWCMP:W2	Income:R Worker Comp	Cont
3	R3IWCMP	R3IWCMP:W3	Income:R Worker Comp	Cont
4	R4IWCMP	R4IWCMP:W4	Income:R Worker Comp	Cont
5	R5IWCMP	R5IWCMP:W5	Income:R Worker Comp	Cont
6	R6IWCMP	R6IWCMP:W6	Income:R Worker Comp	Cont
7	R7IWCMP	R7IWCMP:W7	Income:R Worker Comp	Cont
8	R8IWCMP	R8IWCMP:W8	Income:R Worker Comp	Cont
9	R9IWCMP	R9IWCMP:W9	Income:R Worker Comp	Cont
10	R10IWCMP	R10IWCMP:W10	Income:R Worker Comp	Cont
11	R11IWCMP	R11IWCMP:W11	Income:R Worker Comp	Cont
12	R12IWCMP	R12IWCMP:W12	Income:R Worker Comp	Cont
1	S1IWCMP	S1IWCMP:W1	Income:Sp Worker Comp	Cont
2	S2IWCMP	S2IWCMP:W2	Income:Sp Worker Comp	Cont
3	S3IWCMP	S3IWCMP:W3	Income:Sp Worker Comp	Cont
4	S4IWCMP	S4IWCMP:W4	Income:Sp Worker Comp	Cont
5	S5IWCMP	S5IWCMP:W5	Income:Sp Worker Comp	Cont
6	S6IWCMP	S6IWCMP:W6	Income:Sp Worker Comp	Cont
7	S7IWCMP	S7IWCMP:W7	Income:Sp Worker Comp	Cont
8	S8IWCMP	S8IWCMP:W8	Income:Sp Worker Comp	Cont
9	S9IWCMP	S9IWCMP:W9	Income:Sp Worker Comp	Cont
10	S10IWCMP	S10IWCMP:W10	Income:Sp Worker Comp	Cont
11	S11IWCMP	S11IWCMP:W11	Income:Sp Worker Comp	Cont
12	S12IWCMP	S12IWCMP:W12	Income:Sp Worker Comp	Cont
1	R1IFWCMP	R1IFWCMP:W1	IncFlag:R Worker Comp	Categ
2	R2IFWCMP	R2IFWCMP:W2	IncFlag:R Worker Comp	Categ
3	R3IFWCMP	R3IFWCMP:W3	IncFlag:R Worker Comp	Categ
4	R4IFWCMP	R4IFWCMP:W4	IncFlag:R Worker Comp	Categ
5	R5IFWCMP	R5IFWCMP:W5	IncFlag:R Worker Comp	Categ
6	R6IFWCMP	R6IFWCMP:W6	IncFlag:R Worker Comp	Categ
7	R7IFWCMP	R7IFWCMP:W7	IncFlag:R Worker Comp	Categ
8	R8IFWCMP	R8IFWCMP:W8	IncFlag:R Worker Comp	Categ



9	R9IFWCMP	R9IFWCMP:W9 IncFlag:R Worker Comp	Categ
10	R10IFWCMP	R10IFWCMP:W10 IncFlag:R Worker Comp	Categ
11	R11IFWCMP	R11IFWCMP:W11 IncFlag:R Worker Comp	Categ
12	R12IFWCMP	R12IFWCMP:W12 IncFlag:R Worker Comp	Categ
1	S1IFWCMP	S1IFWCMP:W1 IncFlag:Sp Worker Comp	Categ
2	S2IFWCMP	S2IFWCMP:W2 IncFlag:Sp Worker Comp	Categ
3	S3IFWCMP	S3IFWCMP:W3 IncFlag:Sp Worker Comp	Categ
4	S4IFWCMP	S4IFWCMP:W4 IncFlag:Sp Worker Comp	Categ
5	S5IFWCMP	S5IFWCMP:W5 IncFlag:Sp Worker Comp	Categ
6	S6IFWCMP	S6IFWCMP:W6 IncFlag:Sp Worker Comp	Categ
7	S7IFWCMP	S7IFWCMP:W7 IncFlag:Sp Worker Comp	Categ
8	S8IFWCMP	S8IFWCMP:W8 IncFlag:Sp Worker Comp	Categ
9	S9IFWCMP	S9IFWCMP:W9 IncFlag:Sp Worker Comp	Categ
10	S10IFWCMP	S10IFWCMP:W10 IncFlag:Sp Worker Comp	Categ
11	S11IFWCMP	S11IFWCMP:W11 IncFlag:Sp Worker Comp	Categ
12	S12IFWCMP	S12IFWCMP:W12 IncFlag:Sp Worker Comp	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IUNWC	12652	203.43	1246.15	0.0	30800.0
R2IUNWC	19642	125.21	1050.25	0.0	31000.0
R3IUNWC	17991	103.49	1262.58	0.0	60000.0
R4IUNWC	21384	110.80	1072.37	0.0	30000.0
R5IUNWC	19579	99.22	1433.38	0.0	100000.0
R6IUNWC	18165	64.90	745.45	0.0	32760.0
R7IUNWC	20129	112.40	1165.50	0.0	80000.0
R8IUNWC	18469	76.70	849.63	0.0	39000.0
R9IUNWC	17217	78.61	1107.34	0.0	100000.0
R10IUNWC	22034	313.73	1986.53	0.0	50000.0
R11IUNWC	20554	228.00	1790.29	0.0	50000.0
R12IUNWC	18747	153.93	1589.64	0.0	117000.0
S1IUNWC	10279	208.34	1304.62	0.0	30800.0
S2IUNWC	17345	107.64	980.74	0.0	31000.0
S3IUNWC	15656	94.79	1273.47	0.0	60000.0
S4IUNWC	14515	121.96	1116.85	0.0	28000.0
S5IUNWC	13041	110.83	1659.54	0.0	100000.0
S6IUNWC	11859	76.70	816.50	0.0	32760.0
S7IUNWC	13352	113.88	1077.94	0.0	50000.0
S8IUNWC	12052	91.46	1019.73	0.0	39000.0
S9IUNWC	11012	93.02	1297.46	0.0	100000.0
S10IUNWC	14235	347.11	2096.80	0.0	36000.0
S11IUNWC	13080	244.87	1892.26	0.0	43800.0
S12IUNWC	11620	170.81	1849.25	0.0	117000.0
R1IFUNWC	12652	0.14	0.83	0.0	9.0
R2IFUNWC	11420	0.17	0.98	0.0	9.0
R3IFUNWC	10964	0.12	0.79	0.0	9.0
R4IFUNWC	21384	0.12	0.90	0.0	9.0
R5IFUNWC	19579	0.09	0.78	0.0	9.0
R6IFUNWC	18165	0.05	0.50	0.0	9.0
R7IFUNWC	20129	0.08	0.64	0.0	9.0
R8IFUNWC	18469	0.06	0.57	0.0	9.0
R9IFUNWC	17217	0.07	0.62	0.0	9.0
R10IFUNWC	22034	0.24	1.26	0.0	9.0
R11IFUNWC	20554	0.13	0.86	0.0	9.0

R12IFUNWC	18747	0.14	0.95	0.0	9.0
S1IFUNWC	12652	1.63	3.17	0.0	9.0
S2IFUNWC	11420	1.74	3.26	0.0	9.0
S3IFUNWC	10964	1.79	3.31	0.0	9.0
S4IFUNWC	21384	2.67	3.76	0.0	9.0
S5IFUNWC	19579	2.74	3.78	0.0	9.0
S6IFUNWC	18165	2.82	3.80	0.0	9.0
S7IFUNWC	20129	2.76	3.78	0.0	9.0
S8IFUNWC	18469	2.83	3.81	0.0	9.0
S9IFUNWC	17217	2.94	3.84	0.0	9.0
S10IFUNWC	22034	3.01	3.85	0.0	9.0
S11IFUNWC	20554	3.01	3.85	0.0	9.0
S12IFUNWC	18747	3.15	3.89	0.0	9.0
R1IUNEM	12652	116.09	784.54	0.0	28000.0
R2IUNEM	19642	78.92	702.88	0.0	19000.0
R3IUNEM	17991	41.43	475.40	0.0	20000.0
R4IUNEM	21384	55.50	575.11	0.0	25000.0
R5IUNEM	19579	38.70	413.73	0.0	12000.0
R6IUNEM	18165	42.08	515.21	0.0	20000.0
R7IUNEM	20129	80.72	940.65	0.0	80000.0
R8IUNEM	18469	55.36	689.91	0.0	39000.0
R9IUNEM	17217	52.52	628.07	0.0	18200.0
R10IUNEM	22034	274.04	1789.18	0.0	32400.0
R11IUNEM	20554	189.74	1537.70	0.0	35000.0
R12IUNEM	18747	111.15	1036.00	0.0	25000.0
S1IUNEM	10279	117.03	805.37	0.0	28000.0
S2IUNEM	17345	66.66	651.63	0.0	19000.0
S3IUNEM	15656	36.47	464.99	0.0	20000.0
S4IUNEM	14515	61.33	599.21	0.0	25000.0
S5IUNEM	13041	39.31	420.07	0.0	12000.0
S6IUNEM	11859	49.50	579.27	0.0	20000.0
S7IUNEM	13352	72.80	707.02	0.0	20000.0
S8IUNEM	12052	59.96	794.64	0.0	39000.0
S9IUNEM	11012	58.71	674.64	0.0	18200.0
S10IUNEM	14235	294.47	1864.50	0.0	32400.0
S11IUNEM	13080	197.64	1591.38	0.0	35000.0
S12IUNEM	11620	109.61	1035.66	0.0	24000.0
R1IFUNEM	12652	5.83	1.01	1.0	9.0
R2IFUNEM	11420	5.85	0.98	1.0	9.0
R3IFUNEM	10964	5.90	0.81	1.0	9.0
R4IFUNEM	21384	5.95	0.70	1.0	9.0
R5IFUNEM	19579	5.96	0.61	1.0	9.0
R6IFUNEM	18165	5.95	0.58	1.0	9.0
R7IFUNEM	20129	5.93	0.68	1.0	9.0
R8IFUNEM	18469	5.95	0.59	1.0	9.0
R9IFUNEM	17217	5.96	0.56	1.0	9.0
R10IFUNEM	22034	5.87	1.05	1.0	9.0
R11IFUNEM	20554	5.89	0.86	1.0	9.0
R12IFUNEM	18747	5.93	0.77	1.0	9.0
S1IFUNEM	12652	6.25	1.23	1.0	9.0
S2IFUNEM	11420	6.30	1.19	1.0	9.0
S3IFUNEM	10964	6.36	1.10	1.0	9.0
S4IFUNEM	21384	6.61	1.14	1.0	9.0
S5IFUNEM	19579	6.64	1.09	1.0	9.0

S6IFUNEM	18165	6.66	1.09	1.0	9.0
S7IFUNEM	20129	6.63	1.12	1.0	9.0
S8IFUNEM	18469	6.66	1.09	1.0	9.0
S9IFUNEM	17217	6.70	1.08	1.0	9.0
S10IFUNEM	22034	6.63	1.33	1.0	9.0
S11IFUNEM	20554	6.66	1.22	1.0	9.0
S12IFUNEM	18747	6.73	1.17	1.0	9.0
R1IWCMP	12652	87.34	973.21	0.0	30800.0
R2IWCMP	19642	46.29	764.29	0.0	31000.0
R3IWCMP	17991	62.06	1158.77	0.0	60000.0
R4IWCMP	21384	55.30	898.67	0.0	30000.0
R5IWCMP	19579	60.52	1366.20	0.0	100000.0
R6IWCMP	18165	22.81	525.65	0.0	32760.0
R7IWCMP	20129	31.68	687.28	0.0	50000.0
R8IWCMP	18469	21.34	495.48	0.0	21900.0
R9IWCMP	17217	26.09	912.81	0.0	100000.0
R10IWCMP	22034	39.68	819.23	0.0	50000.0
R11IWCMP	20554	38.26	881.75	0.0	50000.0
R12IWCMP	18747	42.78	1194.31	0.0	117000.0
S1IWCMP	10279	91.31	1029.47	0.0	30800.0
S2IWCMP	17345	40.98	733.56	0.0	31000.0
S3IWCMP	15656	58.32	1179.03	0.0	60000.0
S4IWCMP	14515	60.62	934.80	0.0	28000.0
S5IWCMP	13041	71.52	1599.57	0.0	100000.0
S6IWCMP	11859	27.20	573.05	0.0	32760.0
S7IWCMP	13352	41.07	815.59	0.0	50000.0
S8IWCMP	12052	31.51	638.97	0.0	21900.0
S9IWCMP	11012	34.31	1109.20	0.0	100000.0
S10IWCMP	14235	52.65	898.31	0.0	30000.0
S11IWCMP	13080	47.23	972.03	0.0	36000.0
S12IWCMP	11620	61.19	1515.39	0.0	117000.0
R1IFWCMP	12652	5.95	0.66	1.0	9.0
R2IFWCMP	11420	5.97	0.65	1.0	9.0
R3IFWCMP	10964	5.96	0.60	1.0	9.0
R4IFWCMP	21384	6.00	0.50	1.0	9.0
R5IFWCMP	19579	5.99	0.47	1.0	9.0
R6IFWCMP	18165	5.99	0.33	1.0	9.0
R7IFWCMP	20129	6.00	0.38	1.0	9.0
R8IFWCMP	18469	6.00	0.33	1.0	9.0
R9IFWCMP	17217	6.00	0.35	1.0	9.0
R10IFWCMP	22034	6.04	0.53	1.0	9.0
R11IFWCMP	20554	6.01	0.41	1.0	9.0
R12IFWCMP	18747	6.02	0.44	1.0	9.0
S1IFWCMP	12652	6.34	0.99	1.0	9.0
S2IFWCMP	11420	6.38	0.99	1.0	9.0
S3IFWCMP	10964	6.40	0.98	1.0	9.0
S4IFWCMP	21384	6.65	1.03	1.0	9.0
S5IFWCMP	19579	6.66	1.02	1.0	9.0
S6IFWCMP	18165	6.69	1.00	1.0	9.0
S7IFWCMP	20129	6.67	1.01	1.0	9.0
S8IFWCMP	18469	6.69	1.00	1.0	9.0
S9IFWCMP	17217	6.72	1.01	1.0	9.0
S10IFWCMP	22034	6.74	1.04	1.0	9.0
S11IFWCMP	20554	6.74	1.02	1.0	9.0
S12IFWCMP	18747	6.78	1.03	1.0	9.0

## Categorical Variable Codes

Value	R1IFUNWC	R2IFUNWC	R3IFUNWC	R4IFUNWC	R5IFUNWC	R6IFUNWC	R7IFUNWC
.Q=Not asked this wv		8222	7027				
0.No income	11749	10604	10407	20562	18962	17715	19466
1.No imputations	668	531	377	470	351	247	355
2.Some imputation	140	161	103	145	129	158	219
9.No Fin Resp	95	124	77	207	137	45	89

Value	R8IFUNWC	R9IFUNWC	R10IFUNWC	R11IFUNWC	R12IFUNWC
0.No income	18005	16801	20466	19544	17958
1.No imputations	243	217	806	549	382
2.Some imputation	156	124	344	290	208
9.No Fin Resp	65	75	418	171	199

Value	S1IFUNWC	S2IFUNWC	S3IFUNWC	S4IFUNWC	S5IFUNWC	S6IFUNWC	S7IFUNWC
.Q=Not asked this wv		4549	3704				
.U=Unmarried		3673	3323				
0.No income	9558	8519	8225	13877	12607	11536	12873
1.No imputations	512	384	270	346	241	173	237
2.Some imputation	114	121	70	107	100	114	165
8.No Sp/Part->no incm	2373	2297	2335	6869	6538	6306	6777
9.No Fin Resp	95	99	64	185	93	36	77

Value	S8IFUNWC	S9IFUNWC	S10IFUNWC	S11IFUNWC	S12IFUNWC
0.No income	11722	10708	13113	12394	11074
1.No imputations	159	149	537	341	231
2.Some imputation	119	93	258	202	155
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

Value	R1IFUNEM	R2IFUNEM	R3IFUNEM	R4IFUNEM	R5IFUNEM	R6IFUNEM	R7IFUNEM
.Q=Not asked this wv		8222	7027				
1.Continuous value	495	400	262	338	242	203	296
2.Complete bracket						37	66
3.Incomplete bracket						4	10
5.No value/bracket	53	78	44	67	50	18	39
6.No income	11960	10771	10543	20719	19102	17793	19568
7.DK if income	49	47	38	53	48	65	61
9.No Fin Resp	95	124	77	207	137	45	89

Value	R8IFUNEM	R9IFUNEM	R10IFUNEM	R11IFUNEM	R12IFUNEM
1.Continuous value	201	172	747	493	331
2.Complete bracket	47	23	122	94	58
3.Incomplete bracket	4	2	14	8	6
5.No value/bracket	17	21	50	44	17
6.No income	18078	16867	20586	19656	18057
7.DK if income	57	57	97	88	79
9.No Fin Resp	65	75	418	171	199

Value	S1IFUNEM	S2IFUNEM	S3IFUNEM	S4IFUNEM	S5IFUNEM	S6IFUNEM	S7IFUNEM
.Q=Not asked this wv		4549	3704				
.U=Unmarried		3673	3323				
1.Continuous value	378	279	185	252	164	139	186
2.Complete bracket						27	48
3.Incomplete bracket						3	9
5.No value/bracket	43	63	37	49	40	12	33
6.No income	9724	8648	8322	13989	12707	11598	12959
7.DK if income	39	34	21	40	37	44	40
8.No spouse/partner	2373	2297	2335	6869	6538	6306	6777
9.No Fin Resp	95	99	64	185	93	36	77

Value	S8IFUNEM	S9IFUNEM	S10IFUNEM	S11IFUNEM	S12IFUNEM
1.Continuous value	128	115	489	297	194
2.Complete bracket	34	16	83	58	35
3.Incomplete bracket	4	1	11	9	6
5.No value/bracket	11	17	38	38	15
6.No income	11781	10758	13212	12472	11155
7.DK if income	42	43	75	63	55
8.No spouse/partner	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

Value	R1IFWCMP	R2IFWCMP	R3IFWCMP	R4IFWCMP	R5IFWCMP	R6IFWCMP	R7IFWCMP
.Q=Not asked this wv		8222	7027				
1.Continuous value	184	144	127	139	117	50	65
2.Complete bracket						12	24
3.Incomplete bracket						3	1
5.No value/bracket	29	31	19	28	30	6	6
6.No income	12287	11081	10705	20967	19245	17976	19871
7.DK if income	57	40	36	43	50	73	73
9.No Fin Resp	95	124	77	207	137	45	89

Value	R8IFWCMP	R9IFWCMP	R10IFWCMP	R11IFWCMP	R12IFWCMP
1.Continuous value	45	46	76	63	62
2.Complete bracket	14	10	23	16	13
3.Incomplete bracket	1	1	1	1	3
5.No value/bracket	5	3	11	5	5
6.No income	18275	17024	21395	20192	18364
7.DK if income	64	58	110	106	101
9.No Fin Resp	65	75	418	171	199

Value	S1IFWCMP	S2IFWCMP	S3IFWCMP	S4IFWCMP	S5IFWCMP	S6IFWCMP	S7IFWCMP
.Q=Not asked this wv		4549	3704				
.U=Unmarried		3673	3323				
1.Continuous value	143	110	91	98	83	38	53
2.Complete bracket						10	17
3.Incomplete bracket						2	1
5.No value/bracket	25	18	11	20	22	3	4
6.No income	9970	8867	8444	14182	12804	11715	13146
7.DK if income	46	29	19	30	39	55	54
8.No spouse/partner	2373	2297	2335	6869	6538	6306	6777
9.No Fin Resp	95	99	64	185	93	36	77
Value	S8IFWCMP	S9IFWCMP	S10IFWCMP	S11IFWCMP	S12IFWCMP		
1.Continuous value	33	35	60	50	43		
2.Complete bracket	13	7	19	9	8		
3.Incomplete bracket	1	1	1	2	3		
5.No value/bracket	5	2	12	4	6		
6.No income	11900	10862	13733	12803	11319		
7.DK if income	48	43	83	69	81		
8.No spouse/partner	6417	6205	7799	7474	7127		
9.No Fin Resp	52	62	327	143	160		

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

RwIUNWC sums the Respondent's income from unemployment and worker's compensation. Income from unemployment and worker's compensation are available separately in RwIUNEM and RwIWCMP. RwIFUNWC is the imputation flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

RwIFUNEM and RwIFWCMP indicate whether the Respondent's component is imputed.

SwIUNWC sums the spouse's income from unemployment and worker's compensation. Income from unemployment and worker's compensation are available separately in SwIUNEM and SwIWCMP. SwIFUNWC is the imputation flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

SwIFUNEM and SwIFWCMP indicate whether the spouse's component is imputed.

Unemployment and worker's compensation are not available for AHEAD Respondents in Waves 2A and 3A. RwIUNWC and SwIUNWC are set to zero for all AHEAD Respondents in these waves. Same for RwIUNEM, RwIWCMP, SwIUNEM and SwIWCMP. And RwIFUNWC and SwIFUNWC are set to .Q to flag the cases where this is done. Same for RwIFUNEM, SwIFUNEM, RwIFWCMP and SwIFWCMP.

## Cross Wave Differences in Original HRS Data

The unemployment and worker's compensation questions are asked in all HRS waves for Respondent and spouse. The question wording varies slightly. In AHEAD (Waves 2A and 3A), there are no questions about unemployment and worker's compensation.

In Wave 1, the questions ask for income received in 1991. In Wave 2H, the questions ask for income received in 1993. Beginning in Wave 3H, the questions ask for income received in the last calendar year. The last calendar year is the year before the year of the interview.

The question about the amount received is:

"How much did you receive in [year]?"

Beginning in Wave 4, the question changes slightly to:

"How much did you receive in [year] (before taxes and other deductions)?"

In Wave 5, Respondents who are 65 years of age or older and report not working for pay in the last calendar year skip the questions about income from unemployment and worker's compensation. Respondents who are < 65 years of age, on the other hand, are asked both sets of questions, even if they are not working. From Wave 6 forward, the same pattern is true for Respondents who are 65 years of age or older. However, those who are < 65 years of age and report not working for pay in the last calendar year are asked the questions about income from unemployment but skip those related to worker's compensation.

Beginning in Wave 6, unfolding bracket questions are asked for unemployment and worker's compensation.

For AHEAD Respondents in Waves 2A and 3A, the income components corresponding to imputation flags R2IFUNEM, R2IFWCMP, S2IFUNEM, S2IFWCMP, R3IFUNEM, R3IFWCMP, S3IFUNEM, and S3IFWCMP are not available.

**HRS Variables Used**

HRS 1992:  
   V15501           N8:1991:RECV UNEMP C:IND  
   V15502           N8A:WHO RECVD UNEMP :IND  
   V15503           N9:UNEMP COMP: AMTRE:IND  
   V15523           N9:UNEMP COMP: AMTRE:IND  
   V15601           N13:1991:RECV WRKRS :IND  
   V15602           N13A:WHO RECVD WRKRS:IND  
   V15603           N16 WORK COMP: AMTRE:IND  
   V15623           N16 WORK COMP: AMTRE:IND  
   V5501            N8:1991:RECV UNEMP C:IMP  
   V5502            N8A:WHO RECVD UNEMP :IMP  
   V5503            N9:UNEMP COMP:\$AMT R:IMP  
   V5523            N11:UNEMP COMP:\$AMT :IMP  
   V5601            N13:1991:RECV WRKRS :IMP  
   V5602            N13A:WHO RECVD WRKRS:IMP  
   V5603            N14:WRKRS COMP:\$AMT :IMP  
   V5623            N16:WRK COMP:\$AMT RE:IMP  
  
 HRS 1994:  
   W15984           N9. Imputation flag  
   W15985           N9a. Imputation flag  
   W15986           N10. Imputation flag  
   W16003           N12. Imputation flag  
   W16020           N14. Imputation flag  
   W16021           N14a. Imputation flag  
   W16022           N15. Imputation flag  
   W16039           N17. Imputation flag  
   W5984            N9.UNEMPLOYMENT COMPENSA  
   W5985            N9a.WHO RECD UNEMPLOYMEN  
   W5986            N10.R-AMT UNEMPLOYMENT C  
   W6003            N12.SP-AMT UNEMPLOYMENT  
   W6020            N14.WORKERS COMPENSATION  
   W6021            N14a.WHO RECD WORKERS CO  
   W6022            N15.R-AMT WORKERS COMPEN  
   W6039            N17.SP-AMT WORKERS COMPE  
  
 HRS 1996:  
   E3871            J1.R OR SP WORK FOR PAY LCYEAR  
   E3942            J21.WHETHER UNEMPL COMP LCY  
   E3943            J22.WHO RECD UNEMPL COMP  
   E3944            J23.AMT UNEMPL COMP LCY  
   E3952            J28.AMT S/P UNEMPL COMP LCY  
   E3961            J33.WHETHER WORKERS COMP LCY  
   E3962            J34.WHO RECD WORKERS COMP  
   E3963            J35.AMT WORKERS COMP LCY  
   E3974            J40.AMT S/P WORKERS COMP LCY  
  
 HRS 1998:  
   F4629            J1.R OR SP WORK FOR PAY LCYEAR  
   F4702            J21.WHETHER UNEMPL COMP LCY  
   F4703            J22.WHO RECD UNEMPL COMP  
   F4704            J23.AMT UNEMPL COMP LCY  
   F4712            J28.AMT S/P UNEMPL COMP LCY  
   F4721            J33.WHETHER WORKERS COMP LCY  
   F4722            J34.WHO RECD WORKERS COMP  
   F4723            J35.AMT WORKERS COMP LCY  
   F4734            J40.AMT S/P WORKERS COMP LCY  
  
 HRS 2000:  
   G5068            J1.R OR SP WORK FOR PAY LCYEAR  
   G5141            J21.WHETHER UNEMPL COMP LCY  
   G5142            J22.WHO RECD UNEMPL COMP



G5143	J23.AMT UNEMPL COMP LCY
G5151	J28.AMT S/P UNEMPL COMP LCY
G5160	J33.WHETHER WORKERS COMP LCY
G5161	J34.WHO RECD WORKERS COMP
G5162	J35.AMT WORKERS COMP LCY
G5173	J40.AMT S/P WORKERS COMP LCY
HRS 2002:	
HQ010	R OR SP WORK FOR PAY - LCY
HQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
HQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
HQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
HQ067	R AMT FROM UNEMPLOYMENT- MIN
HQ068	R AMT FROM UNEMPLOYMENT - MAX
HQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
HQ071	SP AMT FROM UNEMPLOYMENT - MIN
HQ072	SP AMT FROM UNEMPLOYMENT - MAX
HQ074	R OR SP INCOME FROM WORKERS COMP - LCY
HQ075	WHO RECEIVED FROM WORKERS COMP LCY
HQ076	R AMOUNT FROM WORKERS COMP LCY
HQ077	R AMT FROM WORKERS COMP - MIN
HQ078	R AMT FROM WORKERS COMP - MAX
HQ080	SP AMOUNT FROM WORKERS COMP LCY
HQ081	SP AMT FROM WORKERS COMP - MIN
HQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2004:	
JQ010	R OR SP WORK FOR PAY - LCY
JQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
JQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
JQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
JQ067	R AMT FROM UNEMPLOYMENT- MIN
JQ068	R AMT FROM UNEMPLOYMENT - MAX
JQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
JQ071	SP AMT FROM UNEMPLOYMENT - MIN
JQ072	SP AMT FROM UNEMPLOYMENT - MAX
JQ074	R OR SP INCOME FROM WORKERS COMP - LCY
JQ075	WHO RECEIVED FROM WORKERS COMP LCY
JQ076	R AMOUNT FROM WORKERS COMP LCY
JQ077	R AMT FROM WORKERS COMP - MIN
JQ078	R AMT FROM WORKERS COMP - MAX
JQ080	SP AMOUNT FROM WORKERS COMP LCY
JQ081	SP AMT FROM WORKERS COMP - MIN
JQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2006:	
KQ010	R OR SP WORK FOR PAY - LCY
KQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
KQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
KQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
KQ067	R AMT FROM UNEMPLOYMENT- MIN
KQ068	R AMT FROM UNEMPLOYMENT - MAX
KQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
KQ071	SP AMT FROM UNEMPLOYMENT - MIN
KQ072	SP AMT FROM UNEMPLOYMENT - MAX
KQ074	R OR SP INCOME FROM WORKERS COMP - LCY
KQ075	WHO RECEIVED FROM WORKERS COMP LCY
KQ076	R AMOUNT FROM WORKERS COMP LCY
KQ077	R AMT FROM WORKERS COMP - MIN
KQ078	R AMT FROM WORKERS COMP - MAX
KQ080	SP AMOUNT FROM WORKERS COMP LCY
KQ081	SP AMT FROM WORKERS COMP - MIN

KQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2008:	
LQ010	R OR SP WORK FOR PAY - LCY
LQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
LQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
LQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
LQ067	R AMT FROM UNEMPLOYMENT- MIN
LQ068	R AMT FROM UNEMPLOYMENT - MAX
LQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
LQ071	SP AMT FROM UNEMPLOYMENT - MIN
LQ072	SP AMT FROM UNEMPLOYMENT - MAX
LQ074	R OR SP INCOME FROM WORKERS COMP - LCY
LQ075	WHO RECEIVED FROM WORKERS COMP LCY
LQ076	R AMOUNT FROM WORKERS COMP LCY
LQ077	R AMT FROM WORKERS COMP - MIN
LQ078	R AMT FROM WORKERS COMP - MAX
LQ080	SP AMOUNT FROM WORKERS COMP LCY
LQ081	SP AMT FROM WORKERS COMP - MIN
LQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2010:	
MQ010	R OR SP WORK FOR PAY - LCY
MQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
MQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
MQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
MQ067	R AMT FROM UNEMPLOYMENT- MIN
MQ068	R AMT FROM UNEMPLOYMENT - MAX
MQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
MQ071	SP AMT FROM UNEMPLOYMENT - MIN
MQ072	SP AMT FROM UNEMPLOYMENT - MAX
MQ074	R OR SP INCOME FROM WORKERS COMP - LCY
MQ075	WHO RECEIVED FROM WORKERS COMP LCY
MQ076	R AMOUNT FROM WORKERS COMP LCY
MQ077	R AMT FROM WORKERS COMP - MIN
MQ078	R AMT FROM WORKERS COMP - MAX
MQ080	SP AMOUNT FROM WORKERS COMP LCY
MQ081	SP AMT FROM WORKERS COMP - MIN
MQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2012:	
NQ010	R OR SP WORK FOR PAY - LCY
NQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
NQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY
NQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
NQ067	R AMT FROM UNEMPLOYMENT- MIN
NQ068	R AMT FROM UNEMPLOYMENT - MAX
NQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
NQ071	SP AMT FROM UNEMPLOYMENT - MIN
NQ072	SP AMT FROM UNEMPLOYMENT - MAX
NQ074	R OR SP INCOME FROM WORKERS COMP - LCY
NQ075	WHO RECEIVED FROM WORKERS COMP LCY
NQ076	R AMOUNT FROM WORKERS COMP LCY
NQ077	R AMT FROM WORKERS COMP - MIN
NQ078	R AMT FROM WORKERS COMP - MAX
NQ080	SP AMOUNT FROM WORKERS COMP LCY
NQ081	SP AMT FROM WORKERS COMP - MIN
NQ082	SP AMT FROM WORKERS COMP - MAX
HRS 2014:	
OQ010	R OR SP WORK FOR PAY - LCY
OQ064	R OR SP INCOME FROM UNEMPLOYMENT - LCY
OQ065	WHO RECEIVED INC FROM UNEMPLOYMENT LCY

OQ066	R AMOUNT FROM UNEMPLOYMENT - LCY
OQ067	R AMT FROM UNEMPLOYMENT- MIN
OQ068	R AMT FROM UNEMPLOYMENT - MAX
OQ070	SP AMOUNT FROM UNEMPLOYMENT - LCY
OQ071	SP AMT FROM UNEMPLOYMENT - MIN
OQ072	SP AMT FROM UNEMPLOYMENT - MAX
OQ074	R OR SP INCOME FROM WORKERS COMP - LCY
OQ075	WHO RECEIVED FROM WORKERS COMP LCY
OQ076	R AMOUNT FROM WORKERS COMP LCY
OQ077	R AMT FROM WORKERS COMP - MIN
OQ078	R AMT FROM WORKERS COMP - MAX
OQ080	SP AMOUNT FROM WORKERS COMP LCY
OQ081	SP AMT FROM WORKERS COMP - MIN
OQ082	SP AMT FROM WORKERS COMP - MAX

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

### Individual income from other government transfers

Wave	Variable	Label	Type
1	R1IGXFR	R1IGXFR:W1 Income:R Other Gov Transfer	Cont
2	R2IGXFR	R2IGXFR:W2 Income:R Other Gov Transfer	Cont
3	R3IGXFR	R3IGXFR:W3 Income:R Other Gov Transfer	Cont
4	R4IGXFR	R4IGXFR:W4 Income:R Other Gov Transfer	Cont
5	R5IGXFR	R5IGXFR:W5 Income:R Other Gov Transfer	Cont
6	R6IGXFR	R6IGXFR:W6 Income:R Other Gov Transfer	Cont
7	R7IGXFR	R7IGXFR:W7 Income:R Other Gov Transfer	Cont
8	R8IGXFR	R8IGXFR:W8 Income:R Other Gov Transfer	Cont
9	R9IGXFR	R9IGXFR:W9 Income:R Other Gov Transfer	Cont
10	R10IGXFR	R10IGXFR:W10 Income:R Other Gov Transfer	Cont
11	R11IGXFR	R11IGXFR:W11 Income:R Other Gov Transfer	Cont
12	R12IGXFR	R12IGXFR:W12 Income:R Other Gov Transfer	Cont
1	S1IGXFR	S1IGXFR:W1 Income:Sp Other Gov Transfer	Cont
2	S2IGXFR	S2IGXFR:W2 Income:Sp Other Gov Transfer	Cont
3	S3IGXFR	S3IGXFR:W3 Income:Sp Other Gov Transfer	Cont
4	S4IGXFR	S4IGXFR:W4 Income:Sp Other Gov Transfer	Cont
5	S5IGXFR	S5IGXFR:W5 Income:Sp Other Gov Transfer	Cont
6	S6IGXFR	S6IGXFR:W6 Income:Sp Other Gov Transfer	Cont
7	S7IGXFR	S7IGXFR:W7 Income:Sp Other Gov Transfer	Cont
8	S8IGXFR	S8IGXFR:W8 Income:Sp Other Gov Transfer	Cont
9	S9IGXFR	S9IGXFR:W9 Income:Sp Other Gov Transfer	Cont
10	S10IGXFR	S10IGXFR:W10 Income:Sp Other Gov Transfer	Cont
11	S11IGXFR	S11IGXFR:W11 Income:Sp Other Gov Transfer	Cont
12	S12IGXFR	S12IGXFR:W12 Income:Sp Other Gov Transfer	Cont
1	R1IFGXFR	R1IFGXFR:W1 ImpFlag:R Other Gov Transfer	Categ
2	R2IFGXFR	R2IFGXFR:W2 ImpFlag:R Other Gov Transfer	Categ
3	R3IFGXFR	R3IFGXFR:W3 ImpFlag:R Other Gov Transfer	Categ
4	R4IFGXFR	R4IFGXFR:W4 ImpFlag:R Other Gov Transfer	Categ
5	R5IFGXFR	R5IFGXFR:W5 ImpFlag:R Other Gov Transfer	Categ
6	R6IFGXFR	R6IFGXFR:W6 ImpFlag:R Other Gov Transfer	Categ
7	R7IFGXFR	R7IFGXFR:W7 ImpFlag:R Other Gov Transfer	Categ
8	R8IFGXFR	R8IFGXFR:W8 ImpFlag:R Other Gov Transfer	Categ
9	R9IFGXFR	R9IFGXFR:W9 ImpFlag:R Other Gov Transfer	Categ
10	R10IFGXFR	R10IFGXFR:W10 ImpFlag:R Other Gov Transfer	Categ
11	R11IFGXFR	R11IFGXFR:W11 ImpFlag:R Other Gov Transfer	Categ
12	R12IFGXFR	R12IFGXFR:W12 ImpFlag:R Other Gov Transfer	Categ
1	S1IFGXFR	S1IFGXFR:W1 ImpFlag:Sp Other Gov Transfer	Categ
2	S2IFGXFR	S2IFGXFR:W2 ImpFlag:Sp Other Gov Transfer	Categ
3	S3IFGXFR	S3IFGXFR:W3 ImpFlag:Sp Other Gov Transfer	Categ
4	S4IFGXFR	S4IFGXFR:W4 ImpFlag:Sp Other Gov Transfer	Categ
5	S5IFGXFR	S5IFGXFR:W5 ImpFlag:Sp Other Gov Transfer	Categ
6	S6IFGXFR	S6IFGXFR:W6 ImpFlag:Sp Other Gov Transfer	Categ
7	S7IFGXFR	S7IFGXFR:W7 ImpFlag:Sp Other Gov Transfer	Categ
8	S8IFGXFR	S8IFGXFR:W8 ImpFlag:Sp Other Gov Transfer	Categ
9	S9IFGXFR	S9IFGXFR:W9 ImpFlag:Sp Other Gov Transfer	Categ
10	S10IFGXFR	S10IFGXFR:W10 ImpFlag:Sp Other Gov Transfer	Categ
11	S11IFGXFR	S11IFGXFR:W11 ImpFlag:Sp Other Gov Transfer	Categ
12	S12IFGXFR	S12IFGXFR:W12 ImpFlag:Sp Other Gov Transfer	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IGXFR	12652	494.96	2696.93	0.0	60000.0
R2IGXFR	19642	276.60	1898.03	0.0	57600.0
R3IGXFR	17991	434.62	2787.53	0.0	137607.3
R4IGXFR	21384	494.96	3181.25	0.0	107799.3

R5IGXFR	19579	521.43	3266.06	0.0	63600.0
R6IGXFR	18165	565.46	3589.77	0.0	99600.0
R7IGXFR	20129	585.29	3608.70	0.0	114527.5
R8IGXFR	18469	693.13	4238.37	0.0	119496.4
R9IGXFR	17217	734.46	4354.21	0.0	98400.0
R10IGXFR	22034	817.35	4639.57	0.0	144934.2
R11IGXFR	20554	883.89	4940.88	0.0	128533.2
R12IGXFR	18747	979.22	5268.93	0.0	165558.3
S1IGXFR	10279	422.64	2686.47	0.0	60000.0
S2IGXFR	13672	239.58	2043.86	0.0	57600.0
S3IGXFR	12333	437.03	3113.04	0.0	137607.3
S4IGXFR	14515	481.97	3413.78	0.0	107799.3
S5IGXFR	13041	508.61	3506.09	0.0	63600.0
S6IGXFR	11859	546.02	3843.55	0.0	99600.0
S7IGXFR	13352	566.67	3909.11	0.0	114527.5
S8IGXFR	12052	685.90	4630.97	0.0	119496.4
S9IGXFR	11012	715.90	4646.72	0.0	93956.6
S10IGXFR	14235	764.19	4959.36	0.0	144934.2
S11IGXFR	13080	820.68	5242.78	0.0	128533.2
S12IGXFR	11620	934.70	5703.07	0.0	165558.3
R1IFGXFR	12652	0.18	0.85	0.0	9.0
R2IFGXFR	19642	0.20	0.84	0.0	9.0
R3IFGXFR	17991	0.18	0.83	0.0	9.0
R4IFGXFR	21384	0.20	0.94	0.0	9.0
R5IFGXFR	19579	0.17	0.83	0.0	9.0
R6IFGXFR	18165	0.13	0.58	0.0	9.0
R7IFGXFR	20129	0.15	0.69	0.0	9.0
R8IFGXFR	18469	0.16	0.65	0.0	9.0
R9IFGXFR	17217	0.17	0.70	0.0	9.0
R10IFGXFR	22034	0.35	1.28	0.0	9.0
R11IFGXFR	20554	0.27	0.92	0.0	9.0
R12IFGXFR	18747	0.30	1.02	0.0	9.0
S1IFGXFR	12652	1.64	3.16	0.0	9.0
S2IFGXFR	19642	2.55	3.67	0.0	9.0
S3IFGXFR	17991	2.62	3.71	0.0	9.0
S4IFGXFR	21384	2.70	3.74	0.0	9.0
S5IFGXFR	19579	2.77	3.76	0.0	9.0
S6IFGXFR	18165	2.85	3.79	0.0	9.0
S7IFGXFR	20129	2.78	3.77	0.0	9.0
S8IFGXFR	18469	2.86	3.79	0.0	9.0
S9IFGXFR	17217	2.98	3.82	0.0	9.0
S10IFGXFR	22034	3.06	3.83	0.0	9.0
S11IFGXFR	20554	3.07	3.81	0.0	9.0
S12IFGXFR	18747	3.22	3.85	0.0	9.0

## Categorical Variable Codes

Value	R1IFGXFR	R2IFGXFR	R3IFGXFR	R4IFGXFR	R5IFGXFR	R6IFGXFR	R7IFGXFR
0.No income	11251	17392	16027	19112	17634	16449	18052
1.No imputations	1133	1568	1482	1697	1468	1310	1670
2.Some imputation	173	548	356	368	340	361	318
9.No Fin Resp	95	134	126	207	137	45	89

Value	R8IFGXFR	R9IFGXFR	R10IFGXFR	R11IFGXFR	R12IFGXFR
0.No income	16436	15253	18200	17006	15272
1.No imputations	1642	1544	2818	2802	2689
2.Some imputation	326	345	598	575	587
9.No Fin Resp	65	75	418	171	199

Value	S1IFGXFR	S2IFGXFR	S3IFGXFR	S4IFGXFR	S5IFGXFR	S6IFGXFR	S7IFGXFR
0.No income	9365	12485	11333	13331	12076	11032	12344
1.No imputations	693	742	720	794	705	594	754
2.Some imputation	126	342	194	205	167	197	177
8.No Sp/Part->no incm	2373	5970	5658	6869	6538	6306	6777
9.No Fin Resp	95	103	86	185	93	36	77

Value	S8IFGXFR	S9IFGXFR	S10IFGXFR	S11IFGXFR	S12IFGXFR
0.No income	11085	10065	12222	11280	9928
1.No imputations	763	716	1381	1340	1241
2.Some imputation	152	169	305	317	291
8.No Sp/Part->no incm	6417	6205	7799	7474	7127
9.No Fin Resp	52	62	327	143	160

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

RwIGXFR sums the Respondent's income from veterans' benefits, welfare, and food stamps. RwIFGXFR is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

SwIGXFR sums the spouse's income from veterans' benefits, welfare, and food stamps. SwIFGXFR is a flag that indicates whether any components are imputed.

Veterans' benefits and food stamps are given as monthly amounts (RwMVET, SwMVET, HwMFOOD), which are multiplied by the appropriate number of months (RwNVET, SwNVET, HwNFOOD) to derive the amount received in the last calendar year (RwIVET, SwIVET, HwIFOOD). For veterans' benefits, when we know the income was first received last calendar year, but no month information is available, we assume 6 months. Prior to Wave 10, we assumed 12 months. When neither the year of first receipt nor the months are known, we use 12 months, and a flag is set to "1" (RwNFVET, SwNFVET). For food stamps, when we know the income was received last calendar year, but no month information is available, we assume 6 months, accounting for the fact that this benefit is not necessarily received for an entire year and that households may get off food stamps when their economic circumstances change. Prior to Wave 10, we assumed 12 months, and in Wave 10, we inadvertently used 0 months. When the Respondent reports receiving food stamps sometime since the last interview or in the last two years, but we know neither the year nor the month of receipt, we assume 6 months as well, and a flag is set to "1" (HwNFFOOD). Prior to Wave 11, we assumed 12 months. The assumptions that were used prior to Wave 11 will be updated as necessary in a future data release.

In all waves, veterans' benefits are reported individually and food stamps are reported for the household. In Wave 1, and from Wave 3 forward, welfare is reported for the household, but in Wave 2H it is reported individually. In Wave 2A, it is not reported at all.

Beginning in Version F, we have introduced logic that takes into account who reported receiving welfare income. Specifically, the income is split between the Respondent and spouse if the Respondent is married or partnered and the income is reported jointly. However, income from welfare is not split between the two members of the couple if only one reports receiving it, that is - it is assigned to the appropriate recipient. This logic, as previously stated, does not apply for Wave 2H, since income from welfare is already reported individually. Nor does it pertain to Wave 2A, since there is no direct question about income from welfare. Income from food stamps is always divided equally between the Respondent and spouse. [See Appendix A for a description of how many cases were affected by this change.]

In Wave 1, the questions ask the amount of veterans' benefits and food stamps received in 1991. From Wave 2 forward, a monthly amount is asked. For veterans' benefits the first month received is also asked. Beginning in Wave 2H, the questions about food stamps ask which months they were received since the last interview. The variable derivation checks the months income was received and multiplies the monthly amount appropriately to calculate a yearly amount.

The individual components: RwIVET, R2IVETn, HwIFOOD, R2IWELF, and HwIWELF and their imputation flags are available in the RAND HRS Detailed Imputations File.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in Wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, R2IFVET, S2IFVET, R2IFWELF, and S2IFWELF are set to .Q to indicate that the corresponding income components are not available in Wave 2A. For HRS entry cohort Respondents, R2IFVET1, S2IFVET1, R2IFVET2,

and S2IFVET2 are set to .Q to indicate that the corresponding income components are not available in Wave 2H.

### **Cross Wave Differences in Original HRS Data**

The way the income component questions are asked varies across waves.

In all waves, veterans' benefits are reported for Respondent and spouse individually, and food stamps are reported for the household. In Wave 1, and from Wave 3 forward, welfare is reported for the household, but in Wave 2H it can be reported individually or, if both the Respondent and spouse receive it, jointly.

In Wave 1, the questions ask for the annual amount of veterans' benefits and food stamps received in 1991. From Wave 2 forward, the amount of veterans' benefits received last month and the amount of food stamps in the latest month received are asked. For veterans' benefits the first month received is also asked. Beginning in Wave 2H, the questions about food stamps ask which months since last interview they were received. For welfare the question asks for the annual amount in all waves. Beginning in Wave 6, bracket amounts are asked for welfare, food stamps, and transfer income.

From Wave 3 forward, if the Respondent refuses or does not know the value of monthly veterans' benefits, a series of unfolding bracket questions are asked. The bracket amounts are the same across waves. The exception to this is in Wave 3A, where the bracket amounts are based on the last year, rather than the last month. In Waves 1 and 2, no unfolding bracket questions are asked.

The income questions in the Wave 2A are very different from other waves. Most distinctive are the "regular income" for Respondent and spouse and "other household income." After standard questions about Social Security income, SSI and food stamps, other income is asked about in a general way. If other income is present, Respondents are asked to specify the source of income. In other waves, most income types are asked specifically (eg, Do you receive veterans' benefits?).

In Wave 2A, Financial Respondents are asked the following questions about their own income then their spouse's:

a) "Do you receive any (other) regular income payments; for example, from retirement pensions, Veterans Benefits, annuities, payments from an IRA account, or anything like that?"

b) "Please think about the largest (other) regular income you receive. What type of income is that?"

[IWER: PROBE WITH CATEGORIES ONLY IF R NEEDS HELP]

1.VETERANS BENEFITS

2.RETIREMENT OR OTHER PENSIONS

3.ANNUITY

4.IRA DISTRIBUTION

5.STOCKS AND BONDS

7.OTHER

8.DK

9.RF



This set of questions is repeated twice so that Respondents can report up to 3 current other regular incomes. Then they are asked:

a) "Did you receive any other regular income in [last calendar year] that you no longer receive?"

b) "What type of income was that?"

(Same categories as above)

So there are a total of 4 other regular incomes that can be reported. Categories may be specified more than once, and there are up to 2 different instances of veterans' benefits. Besides pensions and annuities, other waves allow only one reported amount for most income categories, so that a Respondent would give a total of all veterans' benefits income received.

If income is received, subsequent questions serve to identify the date of receipt (was income received in last calendar year?) and amount received. There are no unfolding brackets for income in Wave 2A.

In Wave 12, there are 64 Respondents who report receiving food stamps (OQ400 = 1), have missing (.) values for the "year received food stamps" questions (OQW776\_1, OQW776\_2, OQW776\_3, OQW776\_4), but do answer the "amount received" questions (OQ406 or OQ410). According to HRS, this is due to a programming oversight, resulting in the OQW776 questions being skipped for Respondents who completed the survey in 2015. We assume that these Respondents received food stamps for 6 months in the last calendar year.

For AHEAD Respondents in Wave 2A, the income components corresponding to imputation flags R2IFVET, S2IFVET, R2IFWELF, and S2IFWELF are not available.

For HRS Respondents in Wave 2H, the income components corresponding to imputation flags R2IFVET1, S2IFVET1, R2IFVET2, and S2IFVET2 are not available.

## HRS Variables Used

HRS 1992:

V15701	N18:RECV VETERANS BE:IND
V15702	N18A:WHO RECVD VET B:IND
V15704	N20:VET BN:R1 REC91I:IND
V15709	N20:VET BN:R2 REC91I:IND
V15901	N36:RECV WELFARE IN :IND
V15903	N37A:B:C AMT RECDIND:IND
V16211	N51:RCV FOOD STAMPS :IND
V16212	N51A:FOOD ST/M AMT I:IND
V5701	N18:RECV VETERANS BE:IMP
V5702	N18A:WHO RECVD VET B:IMP
V5704	N20:VET BN:R1\$AMT RE:IMP
V5705	N20:VET BN:R1PAY PER:IMP
V5709	N23:VET BN:R2\$AMT RE:IMP
V5710	N23:VET BN:R2PAY PER:IMP
V5901	N36:RECV WELFARE IN :IMP
V5903	N37A:B:C: AMT RECDV :IMP
V6211	N51:RCV FOOD STAMPS :IMP
V6212	N51A:FD STMP: AMT/M:IMP
V6213	N51A:FD STMP:PER 2 W:IMP

AHEAD 1993:

B1430	J13. FS: RECEIVE ANY FOOD STAMPS LAST MO
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B1432	J13a. FS: \$ LAST MONTH
B1442	J14a. FS: START MONTH FOOD STAMPS
B1443	J14b. FS: START YEAR FOOD STAMPS
B1444	J15. FS: RECEIVE ANY 1992/93
B1450	J16. FS: LAST MONTH RECD 1992/3
B1451	J16a. FS: LAST YEAR RECD 1992/3
B1452	J17. FS: \$ LAST MONTH 1992/3
B1456	J19. R REG INC: RECEIVE ANY
B1457	J20-1. R REG INC: TYPE-1
B1458	J21-1. R REG INC: PAID PER MONTH-1
B1459	J21b-1. R REG INC: \$ PERIOD-1
B1460	J21c-1. R REG INC: \$ LAST PERIOD-1
B1462	J21e-1. R REG INC: START >2YRS AGO-1
B1463	J21f-1. R REG INC: START MONTH-1
B1473	J26-1. R REG INC: ANY OTHER-1
B1475	J20-2. R REG INC: TYPE-2
B1476	J21-2. R REG INC: PAID PER MONTH-2
B1477	J21b-2. R REG INC: \$ PERIOD-2
B1478	J21c-2. R REG INC: \$ LAST PERIOD-2
B1479	J21d-2. R REG INC: FED INC TAXED-2
B1480	J21e-2. R REG INC: START >2YRS AGO-2
B1481	J21f-2. R REG INC: START MONTH-2
B1482	J21g-2. R REG INC: START YEAR-2
B1491	J26-2. R REG INC: ANY OTHER-2
B1492	J20-3. R REG INC: TYPE-3
B1493	J21-3. R REG INC: PAID PER MONTH-3
B1494	J21b-3. R REG INC: \$ PERIOD-3
B1495	J21c-3. R REG INC: \$ LAST PERIOD-3
B1496	J21d-3. R REG INC: FED INC TAXED-3
B1497	J21e-3. R REG INC: START >2YRS AGO-3
B1498	J21f-3. R REG INC: START MONTH-3
B1499	J21g-3. R REG INC: START YEAR-3
B1508	J27. R REG INC: ANY END 1992/3
B1509	J27a. R REG INC END1992/3: TYPE
B1510	J28. R REG INC END 1992/3: PAID PER MO
B1511	J28a. R REG INC END 1992/3: \$ PERIOD
B1512	J28b. R REG INC END1992/3: \$ LAST PERIOD
B1513	J28c. R REG INC END92/3: LAST MO RECD
B1514	J28d. R REG INC END92/3: LAST YR RECD
B1515	J29. SP REG INC: RECEIVE ANY
B1517	J30-1. SP REG INC: TYPE-1
B1518	J31-1. SP REG INC: PAID PER MONTH-1
B1519	J31b-1. SP REG INC: \$ PERIOD-1
B1520	J31c-1. SP REG INC: \$ LAST PERIOD-1
B1521	J31d-1. SP REG INC: FED INC TAXED-1
B1522	J31e-1. SP REG INC: START >2YRS AGO-1
B1523	J31f-1. SP REG INC: START MONTH-1
B1524	J31g-1. SP REG INC: START YEAR-1
B1533	J36-1. SP REG INC: ANY OTHER-1
B1539	J30-2. SP REG INC: TYPE-2
B1540	J31-2. SP REG INC: PAID PER MONTH-2
B1541	J31b-2. SP REG INC: \$ PERIOD-2
B1542	J31c-2. SP REG INC: \$ LAST PERIOD-2
B1543	J31d-2. SP REG INC: FED INC TAXED-2
B1544	J31e-2. SP REG INC: START >2YRS AGO-2
B1545	J31f-2. SP REG INC: START MONTH-2
B1546	J31g-2. SP REG INC: START YEAR-2
B1555	J36-2. SP REG INC: ANY OTHER-2
B1560	J30-3. SP REG INC: TYPE-3

B1561	J31-3. SP REG INC: PAID PER MONTH-3
B1562	J31b-3. SP REG INC: \$ PERIOD-3
B1563	J31c-3. SP REG INC: \$ LAST PERIOD-3
B1564	J31d-3. SP REG INC: FED INC TAXED-3
B1565	J31e-3. SP REG INC: START >2YRS AGO-3
B1566	J31f-3. SP REG INC: START MONTH-3
B1567	J31g-3. SP REG INC: START YEAR-3
B1576	J37. SP REG INC: ANY END 92/93
B1577	J37a. SP REG INC END 92/93: TYPE
B1578	J37b. SP REG INC END 92/93: LAST MO RECD
B1579	J37b. SP REG INC END 92/93: LAST YR RECD
B1580	J37c. SP REG INC END 92/93: PAID PER MO
B1581	J37d. SP REG INC END 92/93: \$ PERIOD
B1582	J37e. SP REG INC END 92/93: \$ LST PERIOD
HRS 1994:	
W16056	N19. Imputation flag
W16063	N19g. Imputation flag
W16067	N19m. Imputation flag
W16282	N26. Imputation flag
W16283	N27. Imputation flag
W16284	N27a1. Imputation flag
W16285	N27b1. Imputation flag
W6056	N19.VETERANS BENEFITS?
W6057	N19a.WHO RECD VETERANS B
W6063	N19g.R-AMT VETERANS BENE
W6064	N19h.R-MONTH START VETER
W6065	N19h.R-YEAR START VETERA
W6067	N19m.SP-AMT VETERANS BEN
W6068	N19n.SP-MONTH START VETE
W6069	N19n.SP-YEAR START VETER
W6282	N26.WELFARE?
W6283	N27.WHO RECEIVED WELFARE
W6284	N27a1.R-AMT WELFARE 1993
W6285	N27b1.SP-AMT WELFARE 199
W6286	N27c1.BOTH-AMT WELFARE 1
W6311	N32.GOV'T FOOD STAMPS SIN
W6312	N32a.WHICH MONTHS
W6313	N32a.START/STOP FOOD STA
W6314	N32a.START/STOP FOOD STA
W6327	N32b. Jan 1993
W6328	N32b. Feb 1993
W6329	N32b. Mar 1993
W6330	N32b. Apr 1993
W6331	N32b. May 1993
W6332	N32b. Jun 1993
W6333	N32b. Jul 1993
W6334	N32b. Aug 1993
W6335	N32b. Sep 1993
W6336	N32b. Oct 1993
W6337	N32b. Nov 1993
W6338	N32b. Dec 1993
W6352	N32b. All of 1993
W6354	N32b. Other
W6355	N32b. DK
W6356	N32b. RF
W6357	N32c.AMT FOOD STAMPS LAS
AHEAD 1995:	
D3927	J12.WHETHER WELFARE 1993
D3929	J12B.AMT WELFARE LCY

D3935	J13.VET BENEFITS
D3936	J13A.VET WHO REC
D3937	J13A.R VET BENEFIT OPEN
D3940	J13D.J13C,DK
D3941	J13E.J13C,DK-2
D3942	J13F.J13C,DK-3
D3950	J13N.SP VET BENEFIT OPEN
D3953	J13Q.DK-1
D3954	J13R.J13C,DK-2
D3955	J13S.J13C,DK-3
D4587	J65.WHETHER FOOD STAMPS 1994
D4595	J65E.AMT FOOD STAMPS
D4597	J65G.AMT FOOD STAMPS LAST MONTH
HRS 1996:	
E4036	J64.R/S WHETHER WELFARE LCY
E4038	J66.AMT WELFARE LCY
E4041	J67.VET BENEFITS
E4042	J68.VET WHO REC
E4043	J69.R VET BENEFIT LAST MONTH
E4046B	J69.R VET BENEFIT LAST MONTH/Bkt
E4051	J70.R VET BENEFIT START YEAR
E4052	J70A.R VET BENEFIT START MONTH
E4056	J72.AMT SP VET BEN LAST MO
E4059B	J72.AMT SP VET BEN LAST MO/Bkt
E4064	J73.SP VET BENEFIT START YEAR
E4065	J73A.SP VET BENEFIT START MONTH
E4588	J255.WHETHER FOOD STAMPS 1994
E4589	J256.WHICH MONTHS
E4590	J257.MONTH
E4591	J258.YEAR
E4593M16	J259.SPECIFIC MONTH - JAN 95
E4593M17	J259.SPECIFIC MONTH - FEB 95
E4593M18	J259.SPECIFIC MONTH - MAR 95
E4593M19	J259.SPECIFIC MONTH - APR 95
E4593M20	J259.SPECIFIC MONTH - MAY 95
E4593M21	J259.SPECIFIC MONTH - JUN 95
E4593M22	J259.SPECIFIC MONTH - JUL 95
E4593M23	J259.SPECIFIC MONTH - AUG 95
E4593M24	J259.SPECIFIC MONTH - SEP 95
E4593M25	J259.SPECIFIC MONTH - OCT 95
E4593M26	J259.SPECIFIC MONTH - NOV 95
E4593M27	J259.SPECIFIC MONTH - DEC 95
E4593M28	J259.SPECIFIC MONTH - JAN 96
E4593M29	J259.SPECIFIC MONTH - FEB 96
E4593M30	J259.SPECIFIC MONTH - MAR 96
E4593M31	J259.SPECIFIC MONTH - APR 96
E4593M32	J259.SPECIFIC MONTH - MAY 96
E4593M33	J259.SPECIFIC MONTH - JUN 96
E4593M34	J259.SPECIFIC MONTH - JUL 96
E4596	J260.AMT FOOD STAMPS
E4598	J262.AMT FOOD STAMPS LAST MONTH
HRS 1998:	
F4796	J64.R/S WHETHER WELFARE LCY
F4798	J66.AMT WELFARE LCY
F4801	J67.VET BENEFITS
F4802	J68.VET WHO REC
F4803	J69.R VET BENEFIT LAST MONTH
F4806	J69A.DK-1K
F4807	J69B.DK-1500

F4808	J69C.DK-500
F4811	J70.R VET BENEFIT START YEAR
F4812	J70A.R VET BENEFIT START MONTH
F4816	J72.AMT SP VET BEN LAST MO
F4819	J72A.DK-1K
F4820	J72B.DK-1,500
F4821	J72C.DK-500
F4824	J73.SP VET BENEFIT START YEAR
F4825	J73A.SP VET BENEFIT START MONTH
F5348	J255.WHETHER FOOD STAMPS 1996
F5349	J256.WHICH MONTHS
F5350	J257.MONTH
F5351	J258.YEAR
F5353M1	J259.SPECIFIC MONTHS
F5353M10	J259.SPECIFIC MONTHS
F5353M2	J259.SPECIFIC MONTHS
F5353M3	J259.SPECIFIC MONTHS
F5353M4	J259.SPECIFIC MONTHS
F5353M5	J259.SPECIFIC MONTHS
F5353M6	J259.SPECIFIC MONTHS
F5353M7	J259.SPECIFIC MONTHS
F5353M8	J259.SPECIFIC MONTHS
F5353M9	J259.SPECIFIC MONTHS
F5356	J260.AMT FOOD STAMPS
F5358	J262.AMT FOOD STAMPS LAST MONTH
HRS 2000:	
G5239	J64.R/S WHETHER WELFARE LCY
G5241	J66.AMT WELFARE LCY
G5244	J67.VET BENEFITS
G5247	J68.VET WHO REC
G5248	J69.R VET BENEFIT LAST MONTH
G5251	J69A.DK-1K
G5252	J69B.DK-1500
G5253	J69C.DK-500
G5256	J70.R VET BENEFIT START YEAR
G5257	J70A.R VET BENEFIT START MONTH
G5261	J72.AMT SP VET BEN LAST MO
G5264	J72A.DK-1K
G5265	J72B.DK-1500
G5266	J72C.DK-500
G5269	J73.SP VET BENEFIT START YEAR
G5270	J73A.SP VET BENEFIT START MONTH
G5735	J255. FOOD STAMPS SINCE LAST IW
G5736	J256.WHICH MONTHS
G5737	J257.MONTH
G5738	J258.YEAR
G5740M1	J259.SPECIFIC MONTHS
G5740M10	J259.SPECIFIC MONTHS
G5740M2	J259.SPECIFIC MONTHS
G5740M3	J259.SPECIFIC MONTHS
G5740M4	J259.SPECIFIC MONTHS
G5740M5	J259.SPECIFIC MONTHS
G5740M6	J259.SPECIFIC MONTHS
G5740M7	J259.SPECIFIC MONTHS
G5740M8	J259.SPECIFIC MONTHS
G5740M9	J259.SPECIFIC MONTHS
G5743	J260.AMT FOOD STAMPS
G5745	J262.AMT FOOD STAMPS LAST MONTH
HRS 2002:	

HQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
HQ115	AMOUNT FROM WELFARE LCY
HQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
HQ120	WHO RECEIVES VET BEN MILITARY PENSION
HQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
HQ122	R AMT FR VETERAN BENEFITS - MIN
HQ123	R AMT FR VETERAN BENEFITS - MAX
HQ124	R AMT FR VETERAN BENEFITS - RESULT
HQ125	R YEAR STARTED VETERAN BENEFITS
HQ126	R MONTH STARTED VETERAN BENEFITS
HQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
HQ128	SP AMT FR VETERAN BENEFITS - MIN
HQ129	SP AMT FR VETERAN BENEFITS - MAX
HQ130	SP AMT VETERAN BENEFITS - RESULT
HQ131	SP YEAR STARTED VETERAN BENEFITS
HQ132	SP MONTH STARTED VETERAN BENEFITS
HQ400	HH FOOD STAMPS SINCE LAST IW
HQ401	WHICH MONTHS HH FOOD STAMPS
HQ402	MONTH HH STARTED RECEIVING FOOD STAMPS
HQ403	YEAR HH STARTED RECEIVING FOOD STAMPS
HQ404M01	SPECIFIC MONTH -1
HQ404M02	SPECIFIC MONTH -2
HQ404M03	SPECIFIC MONTH -3
HQ404M04	SPECIFIC MONTH -4
HQ404M05	SPECIFIC MONTH -5
HQ404M06	SPECIFIC MONTH -6
HQ404M07	SPECIFIC MONTH -7
HQ404M08	SPECIFIC MONTH -8
HQ404M09	SPECIFIC MONTH -9
HQ404M10	SPECIFIC MONTH -10
HQ404M11	SPECIFIC MONTH -11
HQ404M12	SPECIFIC MONTH -12
HQ404M13	SPECIFIC MONTH -13
HQ404M14	SPECIFIC MONTH -14
HQ404M15	SPECIFIC MONTH -15
HQ404M16	SPECIFIC MONTH -16
HQ404M17	SPECIFIC MONTH -17
HQ404M18	SPECIFIC MONTH -18
HQ404M19	SPECIFIC MONTH -19
HQ404M20	SPECIFIC MONTH -20
HQ404M21	SPECIFIC MONTH -21
HQ404M22	SPECIFIC MONTH -22
HQ404M23	SPECIFIC MONTH -23
HQ404M24	SPECIFIC MONTH -24
HQ404M25	SPECIFIC MONTH -25
HQ404M26	SPECIFIC MONTH -26
HQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
HQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
HRS 2004:	
JQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
JQ115	AMOUNT FROM WELFARE LCY
JQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
JQ120	WHO RECEIVES VET BEN MILITARY PENSION
JQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
JQ122	R AMT FR VETERAN BENEFITS - MIN
JQ123	R AMT FR VETERAN BENEFITS - MAX
JQ124	R AMT FR VETERAN BENEFITS - RESULT
JQ125	R YEAR STARTED VETERAN BENEFITS
JQ126	R MONTH STARTED VETERAN BENEFITS

JQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
JQ128	SP AMT FR VETERAN BENEFITS - MIN
JQ129	SP AMT FR VETERAN BENEFITS - MAX
JQ130	SP AMT VETERAN BENEFITS - RESULT
JQ131	SP YEAR STARTED VETERAN BENEFITS
JQ132	SP MONTH STARTED VETERAN BENEFITS
JQ400	HH FOOD STAMPS SINCE LAST IW
JQ401	WHICH MONTHS HH FOOD STAMPS
JQ402	MONTH HH STARTED RECEIVING FOOD STAMPS
JQ403	YEAR HH STARTED RECEIVING FOOD STAMPS
JQ404M1	FOOD STAMPS-MONTH -1
JQ404M10	FOOD STAMPS-MONTH -10
JQ404M11	FOOD STAMPS-MONTH -11
JQ404M12	FOOD STAMPS-MONTH -12
JQ404M13	FOOD STAMPS-MONTH -13
JQ404M14	FOOD STAMPS-MONTH -14
JQ404M15	FOOD STAMPS-MONTH -15
JQ404M16	FOOD STAMPS-MONTH -16
JQ404M17	FOOD STAMPS-MONTH -17
JQ404M18	FOOD STAMPS-MONTH -18
JQ404M19	FOOD STAMPS-MONTH -19
JQ404M2	FOOD STAMPS-MONTH -2
JQ404M20	FOOD STAMPS-MONTH -20
JQ404M21	FOOD STAMPS-MONTH -21
JQ404M22	FOOD STAMPS-MONTH -22
JQ404M23	FOOD STAMPS-MONTH -23
JQ404M24	FOOD STAMPS-MONTH -24
JQ404M25	FOOD STAMPS-MONTH -25
JQ404M26	FOOD STAMPS-MONTH -26
JQ404M27	FOOD STAMPS-MONTH -27
JQ404M28	FOOD STAMPS-MONTH -28
JQ404M29	FOOD STAMPS-MONTH -29
JQ404M3	FOOD STAMPS-MONTH -3
JQ404M30	FOOD STAMPS-MONTH -30
JQ404M31	FOOD STAMPS-MONTH -31
JQ404M32	FOOD STAMPS-MONTH -32
JQ404M4	FOOD STAMPS-MONTH -4
JQ404M5	FOOD STAMPS-MONTH -5
JQ404M6	FOOD STAMPS-MONTH -6
JQ404M7	FOOD STAMPS-MONTH -7
JQ404M8	FOOD STAMPS-MONTH -8
JQ404M9	FOOD STAMPS-MONTH -9
JQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
JQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
HRS 2006:	
KQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
KQ115	AMOUNT FROM WELFARE LCY
KQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
KQ120	WHO RECEIVES VET BEN MILITARY PENSION
KQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
KQ122	R AMT FR VETERAN BENEFITS - MIN
KQ123	R AMT FR VETERAN BENEFITS - MAX
KQ124	R AMT FR VETERAN BENEFITS - RESULT
KQ125	R YEAR STARTED VETERAN BENEFITS
KQ126	R MONTH STARTED VETERAN BENEFITS
KQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
KQ128	SP AMT FR VETERAN BENEFITS - MIN
KQ129	SP AMT FR VETERAN BENEFITS - MAX
KQ130	SP AMT VETERAN BENEFITS - RESULT

KQ131	SP YEAR STARTED VETERAN BENEFITS
KQ132	SP MONTH STARTED VETERAN BENEFITS
KQ400	HH FOOD STAMPS SINCE LAST IW
KQ401	WHICH MONTHS HH FOOD STAMPS
KQ402	MONTH HH STARTED RECEIVING FOOD STAMPS
KQ403	YEAR HH STARTED RECEIVING FOOD STAMPS
KQ404M1	FOOD STAMPS-MONTH -1
KQ404M10	FOOD STAMPS-MONTH -10
KQ404M11	FOOD STAMPS-MONTH -11
KQ404M12	FOOD STAMPS-MONTH -12
KQ404M13	FOOD STAMPS-MONTH -13
KQ404M14	FOOD STAMPS-MONTH -14
KQ404M15	FOOD STAMPS-MONTH -15
KQ404M16	FOOD STAMPS-MONTH -16
KQ404M17	FOOD STAMPS-MONTH -17
KQ404M18	FOOD STAMPS-MONTH -18
KQ404M19	FOOD STAMPS-MONTH -19
KQ404M2	FOOD STAMPS-MONTH -2
KQ404M20	FOOD STAMPS-MONTH -20
KQ404M21	FOOD STAMPS-MONTH -21
KQ404M22	FOOD STAMPS-MONTH -22
KQ404M3	FOOD STAMPS-MONTH -3
KQ404M4	FOOD STAMPS-MONTH -4
KQ404M5	FOOD STAMPS-MONTH -5
KQ404M6	FOOD STAMPS-MONTH -6
KQ404M7	FOOD STAMPS-MONTH -7
KQ404M8	FOOD STAMPS-MONTH -8
KQ404M9	FOOD STAMPS-MONTH -9
KQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
KQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
HRS 2008:	
LQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
LQ115	AMOUNT FROM WELFARE LCY
LQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
LQ120	WHO RECEIVES VET BEN MILITARY PENSION
LQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
LQ122	R AMT FR VETERAN BENEFITS - MIN
LQ123	R AMT FR VETERAN BENEFITS - MAX
LQ124	R AMT FR VETERAN BENEFITS - RESULT
LQ125	R YEAR STARTED VETERAN BENEFITS
LQ126	R MONTH STARTED VETERAN BENEFITS
LQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
LQ128	SP AMT FR VETERAN BENEFITS - MIN
LQ129	SP AMT FR VETERAN BENEFITS - MAX
LQ130	SP AMT VETERAN BENEFITS - RESULT
LQ131	SP YEAR STARTED VETERAN BENEFITS
LQ132	SP MONTH STARTED VETERAN BENEFITS
LQ400	HH FOOD STAMPS SINCE LAST IW
LQ401	WHICH MONTHS HH FOOD STAMPS
LQ402	MONTH HH STARTED RECEIVING FOOD STAMPS
LQ403	YEAR HH STARTED RECEIVING FOOD STAMPS
LQ404M1	FOOD STAMPS-MONTH -1
LQ404M10	FOOD STAMPS-MONTH -10
LQ404M11	FOOD STAMPS-MONTH -11
LQ404M12	FOOD STAMPS-MONTH -12
LQ404M13	FOOD STAMPS-MONTH -13
LQ404M14	FOOD STAMPS-MONTH -14
LQ404M15	FOOD STAMPS-MONTH -15
LQ404M16	FOOD STAMPS-MONTH -16



LQ404M17	FOOD STAMPS-MONTH -17
LQ404M18	FOOD STAMPS-MONTH -18
LQ404M19	FOOD STAMPS-MONTH -19
LQ404M2	FOOD STAMPS-MONTH -2
LQ404M20	FOOD STAMPS-MONTH -20
LQ404M21	FOOD STAMPS-MONTH -21
LQ404M3	FOOD STAMPS-MONTH -3
LQ404M4	FOOD STAMPS-MONTH -4
LQ404M5	FOOD STAMPS-MONTH -5
LQ404M6	FOOD STAMPS-MONTH -6
LQ404M7	FOOD STAMPS-MONTH -7
LQ404M8	FOOD STAMPS-MONTH -8
LQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
LQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
HRS 2010:	
MQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
MQ115	AMOUNT FROM WELFARE LCY
MQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
MQ120	WHO RECEIVES VET BEN MILITARY PENSION
MQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
MQ122	R AMT FR VETERAN BENEFITS - MIN
MQ123	R AMT FR VETERAN BENEFITS - MAX
MQ124	R AMT FR VETERAN BENEFITS - RESULT
MQ125	R YEAR STARTED VETERAN BENEFITS
MQ126	R MONTH STARTED VETERAN BENEFITS
MQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
MQ128	SP AMT FR VETERAN BENEFITS - MIN
MQ129	SP AMT FR VETERAN BENEFITS - MAX
MQ130	SP AMT VETERAN BENEFITS - RESULT
MQ131	SP YEAR STARTED VETERAN BENEFITS
MQ132	SP MONTH STARTED VETERAN BENEFITS
MQ400	HH FOOD STAMPS SINCE LAST IW
MQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
MQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
MQW776_1	YEAR RECIEVED FOOD STAMPS - 1
MQW776_2	YEAR RECIEVED FOOD STAMPS - 2
MQW776_3	YEAR RECIEVED FOOD STAMPS - 3
MQW776_4	YEAR RECIEVED FOOD STAMPS - 4
MQW777_1	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW777_2	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW777_3	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW777_4	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_1M1	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_1M2	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_1M3	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_1M4	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_1M5	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_1M6	ANY MONTHS RECIEVED FOOD STAMPS - 1
MQW778_2M1	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M10	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M11	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M12	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M2	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M3	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M4	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M5	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M6	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M7	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_2M8	ANY MONTHS RECIEVED FOOD STAMPS - 2

MQW778_2M9	ANY MONTHS RECIEVED FOOD STAMPS - 2
MQW778_3M1	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M10	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M11	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M12	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M2	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M3	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M4	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M5	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M6	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M7	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M8	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_3M9	ANY MONTHS RECIEVED FOOD STAMPS - 3
MQW778_4M1	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M10	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M11	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M12	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M2	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M3	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M4	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M5	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M6	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M7	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M8	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW778_4M9	ANY MONTHS RECIEVED FOOD STAMPS - 4
MQW786	PRIOR MONTHS
HRS 2012:	
NQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
NQ115	AMOUNT FROM WELFARE LCY
NQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
NQ120	WHO RECEIVES VET BEN MILITARY PENSION
NQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
NQ122	R AMT FR VETERAN BENEFITS - MIN
NQ123	R AMT FR VETERAN BENEFITS - MAX
NQ124	R AMT FR VETERAN BENEFITS - RESULT
NQ125	R YEAR STARTED VETERAN BENEFITS
NQ126	R MONTH STARTED VETERAN BENEFITS
NQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
NQ128	SP AMT FR VETERAN BENEFITS - MIN
NQ129	SP AMT FR VETERAN BENEFITS - MAX
NQ130	SP AMT VETERAN BENEFITS - RESULT
NQ131	SP YEAR STARTED VETERAN BENEFITS
NQ132	SP MONTH STARTED VETERAN BENEFITS
NQ400	HH FOOD STAMPS SINCE LAST IW
NQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
NQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
NQW776_1	YEAR RECIEVED FOOD STAMPS - 1
NQW776_2	YEAR RECIEVED FOOD STAMPS - 2
NQW776_3	YEAR RECIEVED FOOD STAMPS - 3
NQW776_4	YEAR RECIEVED FOOD STAMPS - 4
NQW777_1	ANY MONTHS RECIEVED FOOD STAMPS - 1
NQW777_2	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW777_3	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW777_4	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_1M1	ANY MONTHS RECIEVED FOOD STAMPS - 1
NQW778_1M2	ANY MONTHS RECIEVED FOOD STAMPS - 1
NQW778_1M3	ANY MONTHS RECIEVED FOOD STAMPS - 1
NQW778_1M4	ANY MONTHS RECIEVED FOOD STAMPS - 1
NQW778_1M5	ANY MONTHS RECIEVED FOOD STAMPS - 1

NQW778_2M1	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M10	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M11	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M12	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M2	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M3	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M4	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M5	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M6	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M7	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M8	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_2M9	ANY MONTHS RECIEVED FOOD STAMPS - 2
NQW778_3M1	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M10	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M11	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M12	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M2	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M3	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M4	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M5	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M6	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M7	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M8	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_3M9	ANY MONTHS RECIEVED FOOD STAMPS - 3
NQW778_4M1	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M10	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M11	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M12	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M2	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M3	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M4	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M5	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M6	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M7	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M8	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW778_4M9	ANY MONTHS RECIEVED FOOD STAMPS - 4
NQW786	PRIOR MONTHS
HRS 2014:	
OQ113	R OR SP INCOME FR WELFARE NOT SSI - LCY
OQ115	AMOUNT FROM WELFARE LCY
OQ119	R OR SP INC FR VETERAN BEN MILITARY PENS
OQ120	WHO RECEIVES VET BEN MILITARY PENSION
OQ121	R AMT FR VETERAN BENEFITS - LAST MONTH
OQ122	R AMT FR VETERAN BENEFITS - MIN
OQ123	R AMT FR VETERAN BENEFITS - MAX
OQ124	R AMT FR VETERAN BENEFITS - RESULT
OQ125	R YEAR STARTED VETERAN BENEFITS
OQ126	R MONTH STARTED VETERAN BENEFITS
OQ127	SP AMT FR VETERAN BENEFITS - LAST MONTH
OQ128	SP AMT FR VETERAN BENEFITS - MIN
OQ129	SP AMT FR VETERAN BENEFITS - MAX
OQ130	SP AMT VETERAN BENEFITS - RESULT
OQ131	SP YEAR STARTED VETERAN BENEFITS
OQ132	SP MONTH STARTED VETERAN BENEFITS
OQ400	HH FOOD STAMPS SINCE LAST IW
OQ406	AMT FOOD STAMPS HH RECD - LAST MONTH
OQ410	AMT FOOD STAMPS HH CURR REC - LAST MONTH
OQW776_1	YEAR RECIEVED FOOD STAMPS - 1
OQW776_2	YEAR RECIEVED FOOD STAMPS - 2

OQW776_3	YEAR RECIEVED FOOD STAMPS - 3
OQW776_4	YEAR RECIEVED FOOD STAMPS - 4
OQW777_1	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW777_2	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW777_3	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW777_4	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_1M1	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW778_1M2	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW778_1M3	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW778_1M4	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW778_1M5	ANY MONTHS RECIEVED FOOD STAMPS - 1
OQW778_2M1	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M10	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M11	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M12	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M2	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M3	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M4	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M5	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M6	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M7	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M8	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_2M9	ANY MONTHS RECIEVED FOOD STAMPS - 2
OQW778_3M1	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M10	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M11	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M12	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M2	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M3	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M4	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M5	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M6	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M7	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M8	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_3M9	ANY MONTHS RECIEVED FOOD STAMPS - 3
OQW778_4M1	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M10	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M11	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M12	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M2	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M3	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M4	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M5	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M6	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M7	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M8	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW778_4M9	ANY MONTHS RECIEVED FOOD STAMPS - 4
OQW786	PRIOR MONTHS

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT

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LFINR	2008	WHETHER FINANCIAL RESPONDENT
MFINR	2010	WHETHER FINANCIAL RESPONDENT
NFINR	2012	WHETHER FINANCIAL RESPONDENT
OFINR	2014	WHETHER FINANCIAL RESPONDENT

<b>All other household income</b>
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Wave	Variable	Label			Type
1	H1IOTHR	H1IOTHR:W1	Income:Other	Household	Cont
2	H2IOTHR	H2IOTHR:W2	Income:Other	Household	Cont
3	H3IOTHR	H3IOTHR:W3	Income:Other	Household	Cont
4	H4IOTHR	H4IOTHR:W4	Income:Other	Household	Cont
5	H5IOTHR	H5IOTHR:W5	Income:Other	Household	Cont
6	H6IOTHR	H6IOTHR:W6	Income:Other	Household	Cont
7	H7IOTHR	H7IOTHR:W7	Income:Other	Household	Cont
8	H8IOTHR	H8IOTHR:W8	Income:Other	Household	Cont
9	H9IOTHR	H9IOTHR:W9	Income:Other	Household	Cont
10	H10IOTHR	H10IOTHR:W10	Income:Other	Household	Cont
11	H11IOTHR	H11IOTHR:W11	Income:Other	Household	Cont
12	H12IOTHR	H12IOTHR:W12	Income:Other	Household	Cont
1	H1IFOTHR	H1IFOTHR:W1	ImpFlag:Other	Household Inc	Categ
2	H2IFOTHR	H2IFOTHR:W2	ImpFlag:Other	Household Inc	Categ
3	H3IFOTHR	H3IFOTHR:W3	ImpFlag:Other	Household Inc	Categ
4	H4IFOTHR	H4IFOTHR:W4	ImpFlag:Other	Household Inc	Categ
5	H5IFOTHR	H5IFOTHR:W5	ImpFlag:Other	Household Inc	Categ
6	H6IFOTHR	H6IFOTHR:W6	ImpFlag:Other	Household Inc	Categ
7	H7IFOTHR	H7IFOTHR:W7	ImpFlag:Other	Household Inc	Categ
8	H8IFOTHR	H8IFOTHR:W8	ImpFlag:Other	Household Inc	Categ
9	H9IFOTHR	H9IFOTHR:W9	ImpFlag:Other	Household Inc	Categ
10	H10IFOTHR	H10IFOTHR:W10	ImpFlag:Other	Household Inc	Categ
11	H11IFOTHR	H11IFOTHR:W11	ImpFlag:Other	Household Inc	Categ
12	H12IFOTHR	H12IFOTHR:W12	ImpFlag:Other	Household Inc	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1IOTHR	12652	2091.01	17688.95	0.0	950000.0
H2IOTHR	19642	1692.36	15784.65	0.0	1035000.0
H3IOTHR	17991	1275.29	10851.93	0.0	300000.0
H4IOTHR	21384	2080.27	22017.54	0.0	1000000.0
H5IOTHR	19579	3218.66	56890.12	0.0	5000000.0
H6IOTHR	18165	2084.25	24493.21	0.0	1200000.0
H7IOTHR	20129	2962.82	29787.57	0.0	1000000.0
H8IOTHR	18469	3333.22	59922.33	0.0	5024500.0
H9IOTHR	17217	2549.20	44948.83	0.0	5150000.0
H10IOTHR	22034	2531.64	31084.54	0.0	2000000.0
H11IOTHR	20554	2449.92	28155.25	0.0	1934117.2
H12IOTHR	18747	2759.05	32768.59	0.0	2407275.9
H1IFOTHR	12652	0.19	0.86	0.0	9.0
H2IFOTHR	19642	0.21	0.85	0.0	9.0
H3IFOTHR	17991	0.16	0.82	0.0	9.0
H4IFOTHR	21384	0.21	0.96	0.0	9.0
H5IFOTHR	19579	0.17	0.83	0.0	9.0
H6IFOTHR	18165	0.12	0.57	0.0	9.0
H7IFOTHR	20129	0.15	0.71	0.0	9.0
H8IFOTHR	18469	0.13	0.64	0.0	9.0
H9IFOTHR	17217	0.14	0.69	0.0	9.0
H10IFOTHR	22034	0.28	1.27	0.0	9.0
H11IFOTHR	20554	0.17	0.88	0.0	9.0
H12IFOTHR	18747	0.20	0.98	0.0	9.0

## Categorical Variable Codes

Value	H1IFOTHR	H2IFOTHR	H3IFOTHR	H4IFOTHR	H5IFOTHR	H6IFOTHR	H7IFOTHR
0.No income	11232	17254	16378	19207	17710	16718	18313
1.No imputations	1093	1593	1203	1409	1369	1023	1208
2.Some imputation	232	661	284	561	363	379	519
9.No Fin Resp	95	134	126	207	137	45	89

Value	H8IFOTHR	H9IFOTHR	H10IFOTHR	H11IFOTHR	H12IFOTHR
0.No income	16918	15811	19783	18913	17055
1.No imputations	1106	963	1225	1063	1063
2.Some imputation	380	368	608	407	430
9.No Fin Resp	65	75	418	171	199

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

HwIOTHR sums alimony, other income, and lump sums from insurance, pension, and inheritance. HwIFOTHR is a flag that indicates whether any components are imputed, and if so, how much information is available for imputation.

In Wave 1, lump sum income from pensions, insurance, and inheritance are available. Beginning in Wave 2, the questions about lump sum income are generic, but the type and the year in which the lump sum was received are also asked.

Only amounts reported as being received from insurance, pension, and inheritance in the last calendar year are included here.

In Waves 1 and 2A, income from friends and family are reported. In later waves, income from friends and family is specifically excluded in question wording about other income. For consistency, income from friends and family are NOT included in this income measure.

From Wave 7 forward, income from alimony (or child support payments) was not asked about. Therefore, this type of income is not included amongst the components that are used to derive other household income.

The individual components: HwIALMNY, HwILUYRn, HwIOTHIn and their imputation flags are available in RAND HRS Detailed Imputations File.

Because of the differences in the way income information was collected for the HRS and AHEAD samples in wave 2, the income component imputation flags that apply vary, depending on the entry cohort of the Respondent. For AHEAD entry cohort Respondents, H2IFOTH1 and H2IFOTH2 are set to .Q to indicate that the corresponding income components are not available in Wave 2A. For HRS entry cohort Respondents, R2IFOTH1, R2IFOTH2, R2IFOTH3, S2IFOTH1, S2IFOTH2, and, S2IFOTH3 are set to .Q to indicate that the corresponding income components are not available in Wave 2H.

### **Cross Wave Differences in Original HRS Data**

The way that some of the income component questions are asked may vary across waves. The questions about lump sum income and other household income change across waves, while the questions on alimony remain the same across waves through Wave 6. Beginning in Wave 7 forward, the question about alimony is not asked.

In Wave 1, questions in the income section ask three separate questions, one for each type of lump sum:

"Did you [or your (husband/wife/partner)] receive a lump sum of money in 1991 from [pensions, insurance, inheritance]?"

In Wave 2, the lump sum income questions are asked in the assets section of the questionnaire:

"People sometimes receive property or lump sum payments of money from such things as pension settlements, insurance settlements, cashing in annuities, or inheritances. In the past two years did you [or your (husband/wife/partner)] receive a lump sum of money or property worth \$500 or more that you have not already told me about? Do not include loans or gifts."

The Wave 3 question wording is similar to that in Wave 2H. Instead of "the past two years," the wording is "since [previous interview month]" if the Respondent has a previous interview. Also the words "worth \$500" are dropped.

Beginning in Wave 4, the question wording is:

"People sometimes receive large amounts of property or money in the form of an inheritance, a trust fund, an insurance settlement, and so on. Have you [or your spouse/partner] [ever/since last interview] received money or property in the form of an inheritance, a trust fund, or an insurance settlement?"

Note that the word "large" is included and the reference period is "ever" if this is the Respondent's first interview. A note to the interviewer indicates that "large" means \$10,000 or more.

From Wave 2 forward, the type of payment and month received are asked and questions about any other lump sum, one or two more times. The amount question asks about the largest or next largest lump sum. Thus the amounts of the three



largest lump sums are available.

Other household income is derived from questions about any other income not asked about specifically. In Waves 1 and 2A, there is also a question about income from friends and family. In later waves, income from friends and family is specifically excluded in question wording about other income.

The question wording for other income varies across waves. In Wave 1, the question asks:

"Any other income from sources other than Social Security, which I'll ask about next?"

In Wave 2H, two questions ask about other income:

(Other than income you have already told me about, did you [and your (husband/wife/partner)] receive any other income in 1993, for example, from private disability insurance payments, consulting fees, odd jobs, and so forth? [DO NOT INCLUDE FINANCIAL SUPPORT FROM RELATIVES OR FRIENDS.]

"Are there any others?"

In Wave 3H forward, only one question about other income is asked and the wording is similar to that in the first question in Wave 2H, except that "rent from your home or second home" is added to the list of examples. In Wave 3A, the question wording is also similar to that in the first question in Wave 2H, except that "consulting fees" is removed from the list of examples. Beginning in Wave 4, the question that actually asks for the amount received adds the words "before taxes and other deductions."

No unfolding bracket questions are asked for alimony and other income in any wave, except for Wave 6. From Wave 2 forward, if the Respondent refuses or does not know the value of a lump sum, a follow-up question asks if the amount is more than \$50,000 (\$30,000 in Wave 2A). In Wave 1, no follow-up question is asked.

The income questions in Wave 2A are very different from other waves. Most distinctive are the "regular income" for Respondent and spouse and "other household income". After standard questions about Social Security income, SSI and food stamps, other income is asked about in a general way. If other income is present, Respondents are asked to specify the source of income. In other waves, most income types are asked specifically (e.g., Do you receive any other income?).

In Wave 2A, Financial Respondents are asked the following questions about their own income then their spouse's:

a) "Do you receive any (other) regular income payments; for example, from retirement pensions, Veterans Benefits, annuities, payments from an IRA account, or anything like that?"

b) "Please think about the largest (other) regular income you receive. What type of income is that?"

[IWER: PROBE WITH CATEGORIES ONLY IF R NEEDS HELP]

1.VETERANS BENEFITS

2.RETIREMENT OR OTHER PENSIONS

3.ANNUITY

4.IRA DISTRIBUTION

## 5.STOCKS AND BONDS

## 7.OTHER

## 8.DK

## 9.RF

This set of questions is repeated twice so that Respondents can report up to 3 current other regular incomes. Then they are asked:

a) "Did you receive any other regular income in [last calendar year] that you no longer receive?"

b) "What type of income was that?"

(Same categories as above)

So there are a total of 4 other regular incomes that can be reported. Categories may be specified more than once, and there are up to 3 different instances of "other" income.

If income is received, subsequent questions serve to identify the date of receipt (was income received in last calendar year?) and amount received. There are no unfolding brackets for income in Wave 2A.

From Wave 7 forward, income from alimony (or child support payments) was not asked about. Therefore, any components related to this type of income are not available.

For AHEAD Respondents in Wave 2A, the income components corresponding to imputation flags H2IFOTH1 and H2IFOTH2 are not available.

For HRS Respondents in Wave 2H, the income components corresponding to imputation flags R2IFOTH1, R2IFOTH2, R2IFOTH3, S2IFOTH1, S2IFOTH2, and, S2IFOTH3 are not available.

## HRS Variables Used

HRS 1992:

V15914	N38E:OTHR	INCME:ALIM:IND
V15915	N39E:OTHR	INCME AMT :IND
V15923	N38G:OTHR	INCME:NOT :IND
V15924	N39G:OTHR	INCM1 AMT :IND
V16201	N48a:RCV	91:INSUR :IND
V16202	N48A:REC	91: AMT :IND
V16203	N48b:RCV	91:PENS S:IND
V16204	N48AB:REC	91: AMT:IND
V16205	N48c:RCV	91:INHERI:IND
V16206	N48AC:REC	91: AMT:IND
V5914	N38E:OTHR	INCME:ALIM:IMP
V5915	N39E:OTHR	INCME: AM:IMP
V5923	N38G:OTHR	INCME:NOT :IMP
V5924	N39G:OTHR	INCME:1: :IMP
V5926	N39G:OTHR	INCME:2: :IMP
V6201	N48a:RCV	91:INSUR :IMP
V6202	N48Aa:RCV	91: AMT:IMP

V6203	N48b:RCV 91:PENS S:IMP
V6204	N48Ab:RCV 91: AMT:IMP
V6205	N48c:RCV 91:INHERI:IMP
V6206	N48Ac:RCV 91: AMT:IMP
AHEAD 1993:	
B1456	J19. R REG INC: RECEIVE ANY
B1457	J20-1. R REG INC: TYPE-1
B1458	J21-1. R REG INC: PAID PER MONTH-1
B1459	J21b-1. R REG INC: \$ PERIOD-1
B1460	J21c-1. R REG INC: \$ LAST PERIOD-1
B1462	J21e-1. R REG INC: START >2YRS AGO-1
B1463	J21f-1. R REG INC: START MONTH-1
B1473	J26-1. R REG INC: ANY OTHER-1
B1475	J20-2. R REG INC: TYPE-2
B1476	J21-2. R REG INC: PAID PER MONTH-2
B1477	J21b-2. R REG INC: \$ PERIOD-2
B1478	J21c-2. R REG INC: \$ LAST PERIOD-2
B1479	J21d-2. R REG INC: FED INC TAXED-2
B1480	J21e-2. R REG INC: START >2YRS AGO-2
B1481	J21f-2. R REG INC: START MONTH-2
B1482	J21g-2. R REG INC: START YEAR-2
B1491	J26-2. R REG INC: ANY OTHER-2
B1492	J20-3. R REG INC: TYPE-3
B1493	J21-3. R REG INC: PAID PER MONTH-3
B1494	J21b-3. R REG INC: \$ PERIOD-3
B1495	J21c-3. R REG INC: \$ LAST PERIOD-3
B1496	J21d-3. R REG INC: FED INC TAXED-3
B1497	J21e-3. R REG INC: START >2YRS AGO-3
B1498	J21f-3. R REG INC: START MONTH-3
B1499	J21g-3. R REG INC: START YEAR-3
B1508	J27. R REG INC: ANY END 1992/3
B1509	J27a. R REG INC END1992/3: TYPE
B1510	J28. R REG INC END 1992/3: PAID PER MO
B1511	J28a. R REG INC END 1992/3: \$ PERIOD
B1512	J28b. R REG INC END1992/3:\$ LAST PERIOD
B1513	J28c. R REG INC END92/3: LAST MO RECD
B1514	J28d. R REG INC END92/3: LAST YR RECD
B1515	J29. SP REG INC: RECEIVE ANY
B1517	J30-1. SP REG INC: TYPE-1
B1518	J31-1. SP REG INC: PAID PER MONTH-1
B1519	J31b-1. SP REG INC: \$ PERIOD-1
B1520	J31c-1. SP REG INC: \$ LAST PERIOD-1
B1521	J31d-1. SP REG INC: FED INC TAXED-1
B1522	J31e-1. SP REG INC: START >2YRS AGO-1
B1523	J31f-1. SP REG INC: START MONTH-1
B1524	J31g-1. SP REG INC: START YEAR-1
B1533	J36-1. SP REG INC: ANY OTHER-1
B1539	J30-2. SP REG INC: TYPE-2
B1540	J31-2. SP REG INC: PAID PER MONTH-2
B1541	J31b-2. SP REG INC: \$ PERIOD-2
B1542	J31c-2. SP REG INC: \$ LAST PERIOD-2
B1543	J31d-2. SP REG INC: FED INC TAXED-2
B1544	J31e-2. SP REG INC: START >2YRS AGO-2
B1545	J31f-2. SP REG INC: START MONTH-2
B1546	J31g-2. SP REG INC: START YEAR-2
B1555	J36-2. SP REG INC: ANY OTHER-2
B1560	J30-3. SP REG INC: TYPE-3
B1561	J31-3. SP REG INC: PAID PER MONTH-3
B1562	J31b-3. SP REG INC: \$ PERIOD-3

B1563	J31c-3. SP REG INC: \$ LAST PERIOD-3
B1564	J31d-3. SP REG INC: FED INC TAXED-3
B1565	J31e-3. SP REG INC: START >2YRS AGO-3
B1566	J31f-3. SP REG INC: START MONTH-3
B1567	J31g-3. SP REG INC: START YEAR-3
B1576	J37. SP REG INC: ANY END 92/93
B1577	J37a. SP REG INC END 92/93: TYPE
B1578	J37b. SP REG INC END 92/93: LAST MO RECD
B1579	J37b. SP REG INC END 92/93: LAST YR RECD
B1580	J37c. SP REG INC END 92/93: PAID PER MO
B1581	J37d. SP REG INC END 92/93: \$ PERIOD
B1582	J37e. SP REG INC END 92/93: \$ LST PERIOD
B1792	K36. LUMP SUM \$500\+: ANY, PAST 2YRS
B1793	K37. LUMP SUM: TYPE-1
B1794	K38. LUMP SUM: PAYMENT MONTH-1
B1795	K38a. LUMP SUM: PAYMENT YEAR-1
B1796	K39. LUMP SUM: \$ RECEIVED-1
B1798	K41. LUMP SUM: OTHER IN LAST 2YRS-1
B1799	K37. LUMP SUM: TYPE-2
B1800	K38. LUMP SUM: PAYMENT MONTH-2
B1801	K38a. LUMP SUM: PAYMENT YEAR-2
B1802	K39. LUMP SUM: \$ RECEIVED-2
B1804	K41. LUMP SUM: OTHER IN LAST 2YRS-2
B1805	K37. LUMP SUM: TYPE-3
B1806	K38. LUMP SUM: PAYMENT MONTH-3
B1807	K38a. LUMP SUM: PAYMENT YEAR-3
B1808	K39. LUMP SUM: \$ RECEIVED-3
HRS 1994:	
W16303	N28d. Imputation flag
W16304	N29d1. Imputation flag
W16305	N28f. Imputation flag
W16306	N29f1. Imputation flag
W5565	K36.RECEIVE LUMP SUM PAY
W5568	K38a-1.RECEIVE LUMP SUM-
W5569	K39-1.AMOUNT OF LUMP SUM
W5570	K40-1.>50K
W5572	K42-1.RECEIVE OTHER LUMP
W5575	K38a-2.RECEIVE LUMP SUM-
W5576	K39-2.AMOUNT OF LUMP SUM
W5577	K40-2.>50K
W5579	K42-3.RECEIVE LUMP SUM-3
W5582	K38a-3.RECEIVE LUMP SUM-
W5583	K39-3.AMOUNT OF LUMP SUM
W5584	K40-3.>50K
W6303	N28d.ALIMONY/CHILD SUPPO
W6304	N29d1.AMT ALIMONY/CHILD
W6305	N28f.OTHER INCOME IN 199
W6306	N29f1.AMT OTHER INCOME-1
W6307	N29f3.ANY OTHERS?
W6308	N29f4.AMT OTHER INCOME-2
AHEAD 1995:	
D4566	J61.ALIMONY INCOME
D4567	J61A.AMT ALIMONY \$ LCY
D4573	J62.OTHER SOURCES INCOME
D4574	J62A. OTHER SOURCES \$ 1994
D4747	J83. LUMP SUM
D4750	J85A.DATE LUMP-1
D4751	J86-1. LUMP \$-1
D4752	J87-1.>50K

D4754	J89.ANY OTHER LUMP SUM-2
D4757	J85A-2.LUMP SUM YEAR-2
D4758	J86-2. LUMP \$-2
D4759	J87-2.>50K
D4761	J43.ANY OTHER LUMP SUM-3
D4764	J85A-3.LUMP SUM YEAR-3
D4765	J86-3. LUMP \$-3
D4766	J87-3.>50K
HRS 1996:	
E4567	J247.ALIMONY INCOME
E4568	J248.AMT ALIMONY \$ LCY
E4574	J249.OTHER SOURCES INCOME
E4575	J250.OTHER SOURCES \$ 1994
E4748	J305.LUMP SUM
E4751	J308.YEAR LUMP-1
E4752	J309.LUMP \$-1
E4753	J309A.>50K
E4755	J311. ANY SECOND LUMP SUM
E4758	J314. SECOND LUMP SUM: YEAR RECEIVED
E4759	J315.LUMP \$-2
E4760	J315A.>50K
E4763	J318.LUMP SUM-3
E4765	J320. THIRD LUMP SUM: YEAR RECEIVED
E4766	J321.LUMP \$-3
E4767	J321A.>50K
HRS 1998:	
F5327	J247.ALIMONY INCOME
F5328	J248.AMT ALIMONY \$ LCY
F5334	J249.OTHER SOURCES INCOME
F5335	J250.OTHER SOURCES \$ 1996
F5508	J305.LUMP SUM
F5511	J308.DATE LUMP-1
F5512	J309.LUMP \$-1
F5513	J309A.>50K
F5515	J311.
F5518	J314.
F5519	J315.LUMP \$-2
F5520	J315A.>50K
F5522	J317.
F5525	J320.
F5526	J321.LUMP \$-3
F5527	J321A.>50K
HRS 2000:	
G5721	J247.ALIMONY INCOME
G5722	J248.AMT ALIMONY \$ LCY
G5728	J249.OTHER SOURCES INCOME
G5729	J250.OTHER SOURCES IN LCY
G5861	J305.ANY LUMP SUM
G5864	J308.DATE LUMP-1
G5865	J309. LUMP SUM RCV-1
G5866	J309A.>50K
G5868	J311.ANY 2ND LUMP SUM
G5871	J314.2ND LUMP SUM-YR RECIEVED
G5872	J315. LUMP SUM RCV-2
G5873	J315A.>50K
G5875	J317.ANY 3RD LUMP SUM
G5878	J320.3RD LUMP SUM-YR RECIEVED
G5879	J321. LUMP SUM RCV-3
G5880	J321A.>50K

HRS 2002:  
HQ390 ALIMONY CHILD SUPP INCOME  
HQ391 ALIMONY CHILD SUPP INCOME AMOUNT - LCY  
HQ395 OTHER SOURCES OF INCOME  
HQ396 OTHER SOURCES OF INCOME AMOUNT - LCY  
HQ483\_1 R OR SP IF LUMP SUM RECEIVED -1  
HQ483\_2 R OR SP IF LUMP SUM RECEIVED -2  
HQ483\_3 R OR SP IF LUMP SUM RECEIVED -3  
HQ486\_1 MONTH LUMP SUM RECEIVED -1  
HQ486\_2 MONTH LUMP SUM RECEIVED -2  
HQ486\_3 MONTH LUMP SUM RECEIVED -3  
HQ487\_1 YEAR LUMP SUM RECEIVED -1  
HQ487\_2 YEAR LUMP SUM RECEIVED -2  
HQ487\_3 YEAR LUMP SUM RECEIVED -3  
HQ488\_1 LUMP SUM AMOUNT RECEIVED -1  
HQ488\_2 LUMP SUM AMOUNT RECEIVED -2  
HQ488\_3 LUMP SUM AMOUNT RECEIVED -3  
HQ489\_1 LUMP SUM AMT - \$50K -1  
HQ489\_2 LUMP SUM AMT - \$50K -2  
HQ489\_3 LUMP SUM AMT - \$50K -3  
HRS 2004:  
JQ395 OTHER SOURCES OF INCOME  
JQ396 OTHER SOURCES OF INCOME AMOUNT - LCY  
JQ483\_1 R OR SP IF LUMP SUM RECEIVED -1  
JQ483\_2 R OR SP IF LUMP SUM RECEIVED -2  
JQ483\_3 R OR SP IF LUMP SUM RECEIVED -3  
JQ486\_1 MONTH LUMP SUM RECEIVED -1  
JQ486\_2 MONTH LUMP SUM RECEIVED -2  
JQ486\_3 MONTH LUMP SUM RECEIVED -3  
JQ487\_1 YEAR LUMP SUM RECEIVED -1  
JQ487\_2 YEAR LUMP SUM RECEIVED -2  
JQ487\_3 YEAR LUMP SUM RECEIVED -3  
JQ488\_1 LUMP SUM AMOUNT RECEIVED -1  
JQ488\_2 LUMP SUM AMOUNT RECEIVED -2  
JQ488\_3 LUMP SUM AMOUNT RECEIVED -3  
JQ489\_1 LUMP SUM AMT - \$50K -1  
JQ489\_2 LUMP SUM AMT - \$50K -2  
JQ489\_3 LUMP SUM AMT - \$50K -3  
HRS 2006:  
KQ395 OTHER SOURCES OF INCOME  
KQ396 OTHER SOURCES OF INCOME AMOUNT - LCY  
KQ483\_1 R OR SP IF LUMP SUM RECEIVED -1  
KQ483\_2 R OR SP IF LUMP SUM RECEIVED -2  
KQ483\_3 R OR SP IF LUMP SUM RECEIVED -3  
KQ486\_1 MONTH LUMP SUM RECEIVED -1  
KQ486\_2 MONTH LUMP SUM RECEIVED -2  
KQ486\_3 MONTH LUMP SUM RECEIVED -3  
KQ487\_1 YEAR LUMP SUM RECEIVED -1  
KQ487\_2 YEAR LUMP SUM RECEIVED -2  
KQ487\_3 YEAR LUMP SUM RECEIVED -3  
KQ488\_1 LUMP SUM AMOUNT RECEIVED -1  
KQ488\_2 LUMP SUM AMOUNT RECEIVED -2  
KQ488\_3 LUMP SUM AMOUNT RECEIVED -3  
KQ489\_1 LUMP SUM AMT - \$50K -1  
KQ489\_2 LUMP SUM AMT - \$50K -2  
KQ489\_3 LUMP SUM AMT - \$50K -3  
HRS 2008:  
LQ395 OTHER SOURCES OF INCOME  
LQ396 OTHER SOURCES OF INCOME AMOUNT - LCY

LQ483_1	R OR SP IF LUMP SUM RECEIVED -1
LQ483_2	R OR SP IF LUMP SUM RECEIVED -2
LQ483_3	R OR SP IF LUMP SUM RECEIVED -3
LQ486_1	MONTH LUMP SUM RECEIVED -1
LQ486_2	MONTH LUMP SUM RECEIVED -2
LQ486_3	MONTH LUMP SUM RECEIVED -3
LQ487_1	YEAR LUMP SUM RECEIVED -1
LQ487_2	YEAR LUMP SUM RECEIVED -2
LQ487_3	YEAR LUMP SUM RECEIVED -3
LQ488_1	LUMP SUM AMOUNT RECEIVED -1
LQ488_2	LUMP SUM AMOUNT RECEIVED -2
LQ488_3	LUMP SUM AMOUNT RECEIVED -3
LQ489_1	LUMP SUM AMT - \$50K -1
LQ489_2	LUMP SUM AMT - \$50K -2
LQ489_3	LUMP SUM AMT - \$50K -3
HRS 2010:	
MQ395	OTHER SOURCES OF INCOME
MQ396	OTHER SOURCES OF INCOME AMOUNT - LCY
MQ483_1	R OR SP IF LUMP SUM RECEIVED -1
MQ483_2	R OR SP IF LUMP SUM RECEIVED -2
MQ483_3	R OR SP IF LUMP SUM RECEIVED -3
MQ486_1	MONTH LUMP SUM RECEIVED -1
MQ486_2	MONTH LUMP SUM RECEIVED -2
MQ486_3	MONTH LUMP SUM RECEIVED -3
MQ487_1	YEAR LUMP SUM RECEIVED -1
MQ487_2	YEAR LUMP SUM RECEIVED -2
MQ487_3	YEAR LUMP SUM RECEIVED -3
MQ488_1	LUMP SUM AMOUNT RECEIVED -1
MQ488_2	LUMP SUM AMOUNT RECEIVED -2
MQ488_3	LUMP SUM AMOUNT RECEIVED -3
MQ489_1	LUMP SUM AMT - \$50K -1
MQ489_2	LUMP SUM AMT - \$50K -2
MQ489_3	LUMP SUM AMT - \$50K -3
HRS 2012:	
NQ395	OTHER SOURCES OF INCOME
NQ396	OTHER SOURCES OF INCOME AMOUNT - LCY
NQ483_1	R OR SP IF LUMP SUM RECEIVED -1
NQ483_2	R OR SP IF LUMP SUM RECEIVED -2
NQ483_3	R OR SP IF LUMP SUM RECEIVED -3
NQ486_1	MONTH LUMP SUM RECEIVED -1
NQ486_2	MONTH LUMP SUM RECEIVED -2
NQ486_3	MONTH LUMP SUM RECEIVED -3
NQ487_1	YEAR LUMP SUM RECEIVED -1
NQ487_2	YEAR LUMP SUM RECEIVED -2
NQ487_3	YEAR LUMP SUM RECEIVED -3
NQ488_1	LUMP SUM AMOUNT RECEIVED -1
NQ488_2	LUMP SUM AMOUNT RECEIVED -2
NQ488_3	LUMP SUM AMOUNT RECEIVED -3
NQ489_1	LUMP SUM AMT - \$50K -1
NQ489_2	LUMP SUM AMT - \$50K -2
NQ489_3	LUMP SUM AMT - \$50K -3
HRS 2014:	
OQ395	OTHER SOURCES OF INCOME
OQ396	OTHER SOURCES OF INCOME AMOUNT - LCY
OQ483_1	R OR SP IF LUMP SUM RECEIVED -1
OQ483_2	R OR SP IF LUMP SUM RECEIVED -2
OQ483_3	R OR SP IF LUMP SUM RECEIVED -3
OQ486_1	MONTH LUMP SUM RECEIVED -1
OQ486_2	MONTH LUMP SUM RECEIVED -2

OQ486_3	MONTH LUMP SUM RECEIVED -3
OQ487_1	YEAR LUMP SUM RECEIVED -1
OQ487_2	YEAR LUMP SUM RECEIVED -2
OQ487_3	YEAR LUMP SUM RECEIVED -3
OQ488_1	LUMP SUM AMOUNT RECEIVED -1
OQ488_2	LUMP SUM AMOUNT RECEIVED -2
OQ488_3	LUMP SUM AMOUNT RECEIVED -3
OQ489_1	LUMP SUM AMT - \$50K -1
OQ489_2	LUMP SUM AMT - \$50K -2
OQ489_3	LUMP SUM AMT - \$50K -3



<b>Total household income (Respondent &amp; spouse)</b>
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Wave	Variable	Label	Type
1	H1ITOT	H1ITOT:W1 Incm: Total HHold / R+Sp only	Cont
2	H2ITOT	H2ITOT:W2 Incm: Total HHold / R+Sp only	Cont
3	H3ITOT	H3ITOT:W3 Incm: Total HHold / R+Sp only	Cont
4	H4ITOT	H4ITOT:W4 Incm: Total HHold / R+Sp only	Cont
5	H5ITOT	H5ITOT:W5 Incm: Total HHold / R+Sp only	Cont
6	H6ITOT	H6ITOT:W6 Incm: Total HHold / R+Sp only	Cont
7	H7ITOT	H7ITOT:W7 Incm: Total HHold / R+Sp only	Cont
8	H8ITOT	H8ITOT:W8 Incm: Total HHold / R+Sp only	Cont
9	H9ITOT	H9ITOT:W9 Incm: Total HHold / R+Sp only	Cont
10	H10ITOT	H10ITOT:W10 Incm: Total HHold / R+Sp only	Cont
11	H11ITOT	H11ITOT:W11 Incm: Total HHold / R+Sp only	Cont
12	H12ITOT	H12ITOT:W12 Incm: Total HHold / R+Sp only	Cont
2	H2ITOT2	H2ITOT2:W2 Income: Imputed Total Household	Cont
1	H1IFTOT	H1IFTOT:W1 ImpFlag: Total Household Inc	Categ
2	H2IFTOT	H2IFTOT:W2 ImpFlag: Total Household Inc	Categ
3	H3IFTOT	H3IFTOT:W3 ImpFlag: Total Household Inc	Categ
4	H4IFTOT	H4IFTOT:W4 ImpFlag: Total Household Inc	Categ
5	H5IFTOT	H5IFTOT:W5 ImpFlag: Total Household Inc	Categ
6	H6IFTOT	H6IFTOT:W6 ImpFlag: Total Household Inc	Categ
7	H7IFTOT	H7IFTOT:W7 ImpFlag: Total Household Inc	Categ
8	H8IFTOT	H8IFTOT:W8 ImpFlag: Total Household Inc	Categ
9	H9IFTOT	H9IFTOT:W9 ImpFlag: Total Household Inc	Categ
10	H10IFTOT	H10IFTOT:W10 ImpFlag: Total Household Inc	Categ
11	H11IFTOT	H11IFTOT:W11 ImpFlag: Total Household Inc	Categ
12	H12IFTOT	H12IFTOT:W12 ImpFlag: Total Household Inc	Categ
2	H2IFTOT2	H2IFTOT2:W2 ImpFlag: Imputed Total Household	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ITOT	12652	47459.13	50989.24	0.0	1300000.0
H2ITOT	19642	41827.75	74549.69	0.0	3216257.7
H3ITOT	17991	46298.43	72516.40	0.0	3069734.1
H4ITOT	21384	50099.73	110545.25	0.0	7903681.0
H5ITOT	19579	52782.25	102290.67	0.0	5537080.0
H6ITOT	18165	52566.96	93702.47	0.0	7395854.0
H7ITOT	20129	61015.02	105060.86	0.0	3540242.0
H8ITOT	18469	65938.87	319461.25	0.0	25360300.0
H9ITOT	17217	68719.38	475422.60	0.0	60014376.0
H10ITOT	22034	63833.60	103015.80	0.0	5438860.0
H11ITOT	20554	66129.37	113762.43	0.0	4522267.5
H12ITOT	18747	69401.21	145515.02	0.0	11002853.6
H2ITOT2	8222	22378.60	26821.35	0.0	700000.0
H1IFTOT	12652	1.32	0.81	0.0	9.0
H2IFTOT	19642	1.67	0.78	0.0	9.0
H3IFTOT	17991	1.74	0.77	0.0	9.0
H4IFTOT	21384	1.61	0.89	0.0	9.0
H5IFTOT	19579	1.60	0.80	0.0	9.0
H6IFTOT	18165	1.59	0.60	0.0	9.0
H7IFTOT	20129	1.54	0.68	0.0	9.0

H8IFTOT	18469	1.53	0.65	0.0	9.0
H9IFTOT	17217	1.52	0.69	0.0	9.0
H10IFTOT	22034	1.51	1.01	0.0	9.0
H11IFTOT	20554	1.45	0.83	0.0	9.0
H12IFTOT	18747	1.45	0.88	0.0	9.0
H2IFTOT2	8222	1.45	0.57	0.0	9.0

## Categorical Variable Codes

Value	H1IFTOT	H2IFTOT	H3IFTOT	H4IFTOT	H5IFTOT	H6IFTOT	H7IFTOT
0.No income	118	138	96	89	105	90	125
1.No imputations	9049	7057	5423	9595	8594	7442	9443
2.Some imputation	3390	12314	12346	11494	10743	10596	10490
9.No Fin Resp	95	133	126	206	137	37	71

Value	H8IFTOT	H9IFTOT	H10IFTOT	H11IFTOT	H12IFTOT
0.No income	88	101	283	261	239
1.No imputations	8816	8551	12347	11835	11064
2.Some imputation	9509	8501	9108	8304	7274
9.No Fin Resp	56	64	296	154	170

Value	H2IFTOT2
.Q=Not asked this wv	11420
0.No income	50
1.No imputations	4481
2.Some imputation	3681
9.No Fin Resp	10

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's

spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

### **How Constructed**

HwITOT is the sum of all income in a household, that is, the sum of RwieARN, SwIEARN, HwICAP, RwiePENa, SwIPENa, RwieSSDI, SwISSDI, RwieSRET, SwISRET, RwieIUNWC, SwIUNWC, RwieGXFR, SwIGXFR, and HwIOTHR.

HwIFTOT is a flag that indicates whether any components are imputed.

H2ITOT2 is derived from the Wave 2A question which asks how much total income a household received last calendar year. Missing values were imputed from unfolding bracket questions, and H2IFTOT2 flags imputed values.

See also the explanations of the individual variables used to calculate HwITOT for possible differences between the HRS and AHEAD samples.

For HRS entry cohort Respondents, H2ITOT2 and H2IFTOT2 are set to .Q to indicate that the corresponding income information is not available in Wave 2H.

It is important to note that total household income does not include income from other household members, only the Respondent and spouse.

### **Cross Wave Differences in Original HRS Data**

For HRS Respondents in Wave 2H, there is no question asking for total household income. Thus, the information for H2ITOT2 and H2IFTOT2 are not available for these cases in Wave 2.

<b>Poverty Threshold</b>
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Wave	Variable	Label	Type
6	H6INPOV	H6INPOV:W6 Whether in Poverty-no inst	Categ
7	H7INPOV	H7INPOV:W7 Whether in Poverty-no inst	Categ
8	H8INPOV	H8INPOV:W8 Whether in Poverty-no inst	Categ
9	H9INPOV	H9INPOV:W9 Whether in Poverty-no inst	Categ
10	H10INPOV	H10INPOV:W10 Whether in Poverty-no inst	Categ
11	H11INPOV	H11INPOV:W11 Whether in Poverty-no inst	Categ
12	H12INPOV	H12INPOV:W12 Whether in Poverty-no inst	Categ
6	H6INPOVR	H6INPOVR:W6 Ratio HH Inc:PovThr-no inst	Cont
7	H7INPOVR	H7INPOVR:W7 Ratio HH Inc:PovThr-no inst	Cont
8	H8INPOVR	H8INPOVR:W8 Ratio HH Inc:PovThr-no inst	Cont
9	H9INPOVR	H9INPOVR:W9 Ratio HH Inc:PovThr-no inst	Cont
10	H10INPOVR	H10INPOVR:W10 Ratio HH Inc:PovThr-no inst	Cont
11	H11INPOVR	H11INPOVR:W11 Ratio HH Inc:PovThr-no inst	Cont
12	H12INPOVR	H12INPOVR:W12 Ratio HH Inc:PovThr-no inst	Cont
6	H6POVFAM	H6POVFAM:W6 FamType for PovThresh-no inst	Categ
7	H7POVFAM	H7POVFAM:W7 FamType for PovThresh-no inst	Categ
8	H8POVFAM	H8POVFAM:W8 FamType for PovThresh-no inst	Categ
9	H9POVFAM	H9POVFAM:W9 FamType for PovThresh-no inst	Categ
10	H10POVFAM	H10POVFAM:W10 FamType for PovThresh-no inst	Categ
11	H11POVFAM	H11POVFAM:W11 FamType for PovThresh-no inst	Categ
12	H12POVFAM	H12POVFAM:W12 FamType for PovThresh-no inst	Categ
6	H6POVHHI	H6POVHHI:W6 HH Inc to chk Poverty-no inst	Cont
7	H7POVHHI	H7POVHHI:W7 HH Inc to chk Poverty-no inst	Cont
8	H8POVHHI	H8POVHHI:W8 HH Inc to chk Poverty-no inst	Cont
9	H9POVHHI	H9POVHHI:W9 HH Inc to chk Poverty-no inst	Cont
10	H10POVHHI	H10POVHHI:W10 HH Inc to chk Poverty-no inst	Cont
11	H11POVHHI	H11POVHHI:W11 HH Inc to chk Poverty-no inst	Cont
12	H12POVHHI	H12POVHHI:W12 HH Inc to chk Poverty-no inst	Cont
6	H6POVTHR	H6POVTHR:W6 Poverty Threshold-no inst	Cont
7	H7POVTHR	H7POVTHR:W7 Poverty Threshold-no inst	Cont
8	H8POVTHR	H8POVTHR:W8 Poverty Threshold-no inst	Cont
9	H9POVTHR	H9POVTHR:W9 Poverty Threshold-no inst	Cont
10	H10POVTHR	H10POVTHR:W10 Poverty Threshold-no inst	Cont
11	H11POVTHR	H11POVTHR:W11 Poverty Threshold-no inst	Cont
12	H12POVTHR	H12POVTHR:W12 Poverty Threshold-no inst	Cont
6	H6INPOVA	H6INPOVA:W6 Whether in Poverty-w/inst	Categ
7	H7INPOVA	H7INPOVA:W7 Whether in Poverty-w/inst	Categ
8	H8INPOVA	H8INPOVA:W8 Whether in Poverty-w/inst	Categ
9	H9INPOVA	H9INPOVA:W9 Whether in Poverty-w/inst	Categ
10	H10INPOVA	H10INPOVA:W10 Whether in Poverty-w/inst	Categ
11	H11INPOVA	H11INPOVA:W11 Whether in Poverty-w/inst	Categ
12	H12INPOVA	H12INPOVA:W12 Whether in Poverty-w/inst	Categ
6	H6INPVRA	H6INPVRA:W6 Ratio HH Inc:PovThr-w/inst	Cont
7	H7INPVRA	H7INPVRA:W7 Ratio HH Inc:PovThr-w/inst	Cont
8	H8INPVRA	H8INPVRA:W8 Ratio HH Inc:PovThr-w/inst	Cont
9	H9INPVRA	H9INPVRA:W9 Ratio HH Inc:PovThr-w/inst	Cont
10	H10INPVRA	H10INPVRA:W10 Ratio HH Inc:PovThr-w/inst	Cont
11	H11INPVRA	H11INPVRA:W11 Ratio HH Inc:PovThr-w/inst	Cont
12	H12INPVRA	H12INPVRA:W12 Ratio HH Inc:PovThr-w/inst	Cont
6	H6PVFAMA	H6PVFAMA:W6 FamType for PovThresh-w/inst	Categ
7	H7PVFAMA	H7PVFAMA:W7 FamType for PovThresh-w/inst	Categ
8	H8PVFAMA	H8PVFAMA:W8 FamType for PovThresh-w/inst	Categ
9	H9PVFAMA	H9PVFAMA:W9 FamType for PovThresh-w/inst	Categ
10	H10PVFAMA	H10PVFAMA:W10 FamType for PovThresh-w/inst	Categ
11	H11PVFAMA	H11PVFAMA:W11 FamType for PovThresh-w/inst	Categ
12	H12PVFAMA	H12PVFAMA:W12 FamType for PovThresh-w/inst	Categ
6	H6PVHHIA	H6PVHHIA:W6 HH inc to chk Poverty-w/inst	Cont
7	H7PVHHIA	H7PVHHIA:W7 HH inc to chk Poverty-w/inst	Cont

8	H8PVHHIA	H8PVHHIA:W8 HH inc to chk Poverty-w/inst	Cont
9	H9PVHHIA	H9PVHHIA:W9 HH inc to chk Poverty-w/inst	Cont
10	H10PVHHIA	H10PVHHIA:W10 HH inc to chk Poverty-w/inst	Cont
11	H11PVHHIA	H11PVHHIA:W11 HH inc to chk Poverty-w/inst	Cont
12	H12PVHHIA	H12PVHHIA:W12 HH inc to chk Poverty-w/inst	Cont
6	H6PVTHRA	H6PVTHRA:W6 Poverty Threshold-w/inst	Cont
7	H7PVTHRA	H7PVTHRA:W7 Poverty Threshold-w/inst	Cont
8	H8PVTHRA	H8PVTHRA:W8 Poverty Threshold-w/inst	Cont
9	H9PVTHRA	H9PVTHRA:W9 Poverty Threshold-w/inst	Cont
10	H10PVTHRA	H10PVTHRA:W10 Poverty Threshold-w/inst	Cont
11	H11PVTHRA	H11PVTHRA:W11 Poverty Threshold-w/inst	Cont
12	H12PVTHRA	H12PVTHRA:W12 Poverty Threshold-w/inst	Cont
6	H6NHMLIV	H6NHMLIV:W6 HHold nursing hm status	Categ
7	H7NHMLIV	H7NHMLIV:W7 HHold nursing hm status	Categ
8	H8NHMLIV	H8NHMLIV:W8 HHold nursing hm status	Categ
9	H9NHMLIV	H9NHMLIV:W9 HHold nursing hm status	Categ
10	H10NHMLIV	H10NHMLIV:W10 HHold nursing hm status	Categ
11	H11NHMLIV	H11NHMLIV:W11 HHold nursing hm status	Categ
12	H12NHMLIV	H12NHMLIV:W12 HHold nursing hm status	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H6INPOV	17705	0.08	0.28	0.0	1.0
H7INPOV	19669	0.08	0.27	0.0	1.0
H8INPOV	18031	0.08	0.27	0.0	1.0
H9INPOV	16776	0.08	0.27	0.0	1.0
H10INPOV	21565	0.12	0.32	0.0	1.0
H11INPOV	20076	0.12	0.33	0.0	1.0
H12INPOV	18305	0.12	0.33	0.0	1.0
H6INPOVR	17705	5.00	9.08	0.0	802.7
H7INPOVR	19669	5.41	8.68	0.0	369.8
H8INPOVR	18031	5.62	23.53	0.0	1939.2
H9INPOVR	16776	5.73	47.66	0.0	6035.2
H10INPOVR	21565	4.72	6.77	0.0	289.6
H11INPOVR	20076	4.79	8.07	0.0	340.3
H12INPOVR	18305	4.91	10.31	0.0	893.7
H6POVFAM	17705	219.61	104.65	100.0	908.0
H7POVFAM	19669	228.80	113.97	100.0	908.0
H8POVFAM	18031	224.92	110.69	100.0	908.0
H9POVFAM	16776	220.83	108.11	100.0	908.0
H10POVFAM	21565	240.34	128.07	100.0	908.0
H11POVFAM	20076	237.91	127.41	100.0	908.0
H12POVFAM	18305	234.84	124.89	100.0	908.0
H6POVHHI	17705	59523.77	96569.16	0.0	7395854.0
H7POVHHI	19669	68884.54	108799.51	0.0	3540242.0
H8POVHHI	18031	74812.37	324484.20	0.0	25360300.0
H9POVHHI	16776	77753.02	481945.21	0.0	60014376.0
H10POVHHI	21565	70897.45	98491.23	0.0	2979517.3
H11POVHHI	20076	74619.82	117295.90	0.0	4531125.9
H12POVHHI	18305	78493.86	148082.54	0.0	10830861.3
H6POVTHR	17705	11877.91	3466.38	8494.0	39223.0
H7POVTHR	19669	12685.76	3965.40	8825.0	40948.0

H8POVTHR	18031	13260.72	4066.75	9367.0	43254.0
H9POVTHR	16776	13875.94	4224.84	9944.0	45921.0
H10POVTHR	21565	15324.44	5204.08	10289.0	47744.0
H11POVTHR	20076	15942.03	5401.89	10788.0	50059.0
H12POVTHR	18305	16365.17	5466.99	11173.0	51844.0
H6INPOVA	18165	0.09	0.28	0.0	1.0
H7INPOVA	20129	0.09	0.28	0.0	1.0
H8INPOVA	18469	0.08	0.27	0.0	1.0
H9INPOVA	17217	0.08	0.27	0.0	1.0
H10INPOVA	22034	0.12	0.32	0.0	1.0
H11INPOVA	20554	0.13	0.33	0.0	1.0
H12INPOVA	18747	0.12	0.33	0.0	1.0
H6INPVRA	18165	4.93	8.98	0.0	802.7
H7INPVRA	20129	5.33	8.57	0.0	369.8
H8INPVRA	18469	5.53	23.26	0.0	1939.2
H9INPVRA	17217	5.62	47.04	0.0	6035.2
H10INPVRA	22034	4.67	7.55	0.0	529.0
H11INPVRA	20554	4.71	7.93	0.0	340.3
H12INPVRA	18747	4.84	10.18	0.0	893.7
H6PVFAMA	18165	218.65	104.79	100.0	908.0
H7PVFAMA	20129	228.71	115.04	100.0	908.0
H8PVFAMA	18469	225.17	111.84	100.0	908.0
H9PVFAMA	17217	220.37	109.50	100.0	908.0
H10PVFAMA	22034	240.79	129.47	100.0	908.0
H11PVFAMA	20554	238.04	128.83	100.0	908.0
H12PVFAMA	18747	234.67	126.31	100.0	908.0
H6PVHHIA	18165	58676.44	95705.97	0.0	7395854.0
H7PVHHIA	20129	68064.49	108221.99	0.0	3540242.0
H8PVHHIA	18469	73922.00	320830.83	0.0	25360300.0
H9PVHHIA	17217	76549.60	475840.75	0.0	60014376.0
H10PVHHIA	22034	70434.83	104330.10	0.0	5442559.6
H11PVHHIA	20554	73753.15	116382.35	0.0	4531125.9
H12PVHHIA	18747	77599.60	146801.66	0.0	10830861.3
H6PVTHRA	18165	11843.70	3469.75	8494.0	39223.0
H7PVTHRA	20129	12681.67	4006.53	8825.0	40948.0
H8PVTHRA	18469	13268.08	4110.11	9367.0	43254.0
H9PVTHRA	17217	13857.51	4277.94	9944.0	45921.0
H10PVTHRA	22034	15338.37	5267.03	10289.0	47744.0
H11PVTHRA	20554	15941.89	5464.07	10788.0	50059.0
H12PVTHRA	18747	16354.07	5526.98	11173.0	51844.0
H6NHMLIV	18165	0.07	0.44	0.0	3.0
H7NHMLIV	20129	0.06	0.42	0.0	3.0
H8NHMLIV	18469	0.07	0.42	0.0	3.0
H9NHMLIV	17217	0.07	0.44	0.0	3.0
H10NHMLIV	22034	0.06	0.39	0.0	3.0
H11NHMLIV	20554	0.06	0.42	0.0	3.0
H12NHMLIV	18747	0.07	0.42	0.0	3.0

## Categorical Variable Codes

Value		H6INPOV	H7INPOV
.I=R in nursing home		460	460
0.HH inc above pov thresh		16215	18051
1.HH inc below pov thresh		1490	1618

Value		H8INPOV	H9INPOV	H10INPOV	H11INPOV	H12INPOV
.I=R in nursing home		438	441	469	478	442
0.HH inc above pov thresh		16653	15467	19057	17582	16060
1.HH inc below pov thresh		1378	1309	2508	2494	2245

Value		H6POVFAM	H7POVFAM
.I: All core HH mem in inst		460	460
100: 1 in HH lt 65		1107	1335
110: 1 in HH gt 65		2995	2943
200: 2 in HH lt 65/0 kids		3383	3774
201: 2 in HH lt 65/1 kid		288	361
210: 2 in HH gt 65/0 kids		5471	5653
211: 2 in HH gt 65/1 kid		633	635
300: 3 in HH/0 kids		510	789
301: 3 in HH/1 kids		1423	1574
302: 3 in HH/2 kids		307	356
400: 4 in HH/0 kids		160	289
401: 4 in HH/1 kids		309	385
402: 4 in HH/2 kids		394	544
403: 4 in HH/3 kids		53	81
500: 5 in HH/0 kids		30	79
501: 5 in HH/1 kids		101	151
502: 5 in HH/2 kids		147	181
503: 5 in HH/3 kids		68	113
504: 5 in HH/4 kids		19	22
600: 6 in HH/0 kids		10	22
601: 6 in HH/1 kids		36	33
602: 6 in HH/2 kids		61	68
603: 6 in HH/3 kids		60	39
604: 6 in HH/4 kids		17	22
605: 6 in HH/5 kids		1	3
700: 7 in HH/0 kids		6	4
701: 7 in HH/1 kids		7	22
702: 7 in HH/2 kids		28	40
703: 7 in HH/3 kids		14	22
704: 7 in HH/4 kids		5	13
705: 7 in HH/5 kids		3	
706: 7 in HH/6 kids			1
801: 8 in HH/1 kids		1	6
802: 8 in HH/2 kids		5	23
803: 8 in HH/3 kids		6	16
804: 8 in HH/4 kids		4	12
805: 8 in HH/5 kids		4	7
806: 8 in HH/6 kids		7	4
900: 9 in HH/0 kids		2	4
901: 9 in HH/1 kids			4
902: 9 in HH/2 kids			9
903: 9 in HH/3 kids		8	10
904: 9 in HH/4 kids		6	8
905: 9 in HH/5 kids		10	1
906: 9 in HH/6 kids		4	4
907: 9 in HH/7 kids		1	6
908: 9 in HH/8 kids		1	1

Value		H8POVFAM	H9POVFAM	H10POVFAM	H11POVFAM	H12POVFAM
.I: All core HH mem in inst		438	441	469	478	442
100: 1 in HH lt 65		1087	964	1847	1685	1489
110: 1 in HH gt 65		3057	3079	2895	2827	2796
200: 2 in HH lt 65/0 kids		2975	2436	3869	3471	3030

201:	2	in	HH	lt	65/1	kid		247	179	465	475	417
210:	2	in	HH	gt	65/0	kids		5753	5822	5378	5225	4822
211:	2	in	HH	gt	65/1	kid		649	628	634	628	647
300:	3	in	HH/0			kids		597	470	1042	839	615
301:	3	in	HH/1			kids		1444	1284	1802	1668	1581
302:	3	in	HH/2			kids		328	321	410	399	413
400:	4	in	HH/0			kids		216	174	478	275	212
401:	4	in	HH/1			kids		312	278	570	521	425
402:	4	in	HH/2			kids		442	355	597	586	578
403:	4	in	HH/3			kids		90	79	89	107	108
500:	5	in	HH/0			kids		40	33	132	77	58
501:	5	in	HH/1			kids		115	85	218	168	130
502:	5	in	HH/2			kids		166	136	250	289	266
503:	5	in	HH/3			kids		106	95	151	166	114
504:	5	in	HH/4			kids		29	23	24	25	27
600:	6	in	HH/0			kids		19	16	58	42	32
601:	6	in	HH/1			kids		40	36	83	49	42
602:	6	in	HH/2			kids		76	84	109	118	133
603:	6	in	HH/3			kids		55	39	83	72	82
604:	6	in	HH/4			kids		21	20	43	48	34
605:	6	in	HH/5			kids		3	5	8	9	16
700:	7	in	HH/0			kids		5	1	11	1	4
701:	7	in	HH/1			kids		8	8	28	23	15
702:	7	in	HH/2			kids		36	32	46	45	48
703:	7	in	HH/3			kids		26	13	48	39	31
704:	7	in	HH/4			kids		17	12	23	27	18
705:	7	in	HH/5			kids		4	5	14	18	9
706:	7	in	HH/6			kids			2	1	2	1
800:	8	in	HH/0			kids				11	5	2
801:	8	in	HH/1			kids		6	2	9	3	4
802:	8	in	HH/2			kids		11	8	28	21	5
803:	8	in	HH/3			kids		14	13	16	24	21
804:	8	in	HH/4			kids		8	4	14	16	16
805:	8	in	HH/5			kids			6	7	10	5
806:	8	in	HH/6			kids		2		2	3	1
900:	9	in	HH/0			kids		2	2	2		
901:	9	in	HH/1			kids				2	4	2
902:	9	in	HH/2			kids		3	10	15	11	5
903:	9	in	HH/3			kids		11	10	14	10	11
904:	9	in	HH/4			kids		3	3	17	21	15
905:	9	in	HH/5			kids		1	2	13	13	12
906:	9	in	HH/6			kids				5	4	2
907:	9	in	HH/7			kids		5	1		3	6
908:	9	in	HH/8			kids		2	1	4	4	5



Value	H6INPOVA	H7INPOVA
0.HH inc above pov thresh	16577	18410
1.HH inc below pov thresh	1588	1719

Value	H8INPOVA	H9INPOVA	H10INPOVA	H11INPOVA	H12INPOVA
0.HH inc above pov thresh	17003	15804	19445	17968	16411
1.HH inc below pov thresh	1466	1413	2589	2586	2336

Value	H6PVFAMA	H7PVFAMA
100: 1 in HH lt 65	1104	1333
110: 1 in HH gt 65	3283	3203
200: 2 in HH lt 65/0 kids	3339	3701
201: 2 in HH lt 65/1 kid	287	362
210: 2 in HH gt 65/0 kids	5570	5744
211: 2 in HH gt 65/1 kid	645	661
300: 3 in HH/0 kids	497	765
301: 3 in HH/1 kids	1487	1620
302: 3 in HH/2 kids	324	376
400: 4 in HH/0 kids	158	288
401: 4 in HH/1 kids	324	418
402: 4 in HH/2 kids	414	587
403: 4 in HH/3 kids	53	87
500: 5 in HH/0 kids	30	79
501: 5 in HH/1 kids	105	151
502: 5 in HH/2 kids	151	186
503: 5 in HH/3 kids	68	127
504: 5 in HH/4 kids	19	22
600: 6 in HH/0 kids	10	21
601: 6 in HH/1 kids	36	37
602: 6 in HH/2 kids	61	75
603: 6 in HH/3 kids	60	39
604: 6 in HH/4 kids	17	22
605: 6 in HH/5 kids	1	3
700: 7 in HH/0 kids	6	4
701: 7 in HH/1 kids	7	23
702: 7 in HH/2 kids	28	40
703: 7 in HH/3 kids	14	22
704: 7 in HH/4 kids	5	13
705: 7 in HH/5 kids	3	2
706: 7 in HH/6 kids		1
801: 8 in HH/1 kids	1	4
802: 8 in HH/2 kids	5	23
803: 8 in HH/3 kids	6	16
804: 8 in HH/4 kids	4	12
805: 8 in HH/5 kids	4	7
806: 8 in HH/6 kids	7	4
900: 9 in HH/0 kids	2	4
901: 9 in HH/1 kids		4
902: 9 in HH/2 kids		13
903: 9 in HH/3 kids	8	10
904: 9 in HH/4 kids	6	8
905: 9 in HH/5 kids	10	1
906: 9 in HH/6 kids	4	4
907: 9 in HH/7 kids	1	6
908: 9 in HH/8 kids	1	1

Value	H8PVFAMA	H9PVFAMA	H10PVFAMA	H11PVFAMA	H12PVFAMA
100: 1 in HH lt 65	1077	955	1822	1674	1492
110: 1 in HH gt 65	3293	3382	3177	3135	3081
200: 2 in HH lt 65/0 kids	2896	2374	3764	3358	2946
201: 2 in HH lt 65/1 kid	255	185	477	481	420
210: 2 in HH gt 65/0 kids	5829	5901	5491	5330	4900
211: 2 in HH gt 65/1 kid	675	621	630	620	647
300: 3 in HH/0 kids	581	461	994	795	590
301: 3 in HH/1 kids	1518	1346	1858	1741	1641
302: 3 in HH/2 kids	350	323	410	403	425

400: 4 in HH/0 kids		209	163	475	282	201
401: 4 in HH/1 kids		337	295	616	550	451
402: 4 in HH/2 kids		482	393	663	638	619
403: 4 in HH/3 kids		98	82	94	108	102
500: 5 in HH/0 kids		42	35	142	78	56
501: 5 in HH/1 kids		115	88	231	164	144
502: 5 in HH/2 kids		170	137	263	315	277
503: 5 in HH/3 kids		111	99	160	182	119
504: 5 in HH/4 kids		30	25	27	29	32
600: 6 in HH/0 kids		21	14	56	41	32
601: 6 in HH/1 kids		44	36	85	53	42
602: 6 in HH/2 kids		80	90	121	129	136
603: 6 in HH/3 kids		61	44	90	73	90
604: 6 in HH/4 kids		26	23	45	49	39
605: 6 in HH/5 kids		3	5	8	10	15
700: 7 in HH/0 kids		5	1	11	1	4
701: 7 in HH/1 kids		8	8	31	23	11
702: 7 in HH/2 kids		37	30	46	44	49
703: 7 in HH/3 kids		26	14	40	39	31
704: 7 in HH/4 kids		17	11	24	32	25
705: 7 in HH/5 kids		5	5	14	18	12
706: 7 in HH/6 kids			2	1	2	1
800: 8 in HH/0 kids				11	5	2
801: 8 in HH/1 kids		6	2	10	3	6
802: 8 in HH/2 kids		11	10	28	21	7
803: 8 in HH/3 kids		12	14	16	25	22
804: 8 in HH/4 kids		8	4	19	18	16
805: 8 in HH/5 kids			8	7	10	5
806: 8 in HH/6 kids		2		2	3	1
900: 9 in HH/0 kids		2	2	2		
901: 9 in HH/1 kids				2	4	2
902: 9 in HH/2 kids		3	10	15	11	4
903: 9 in HH/3 kids		11	12	14	12	12
904: 9 in HH/4 kids		5	3	18	19	15
905: 9 in HH/5 kids		1	2	15	15	12
906: 9 in HH/6 kids				5	4	2
907: 9 in HH/7 kids		5	1		3	6
908: 9 in HH/8 kids		2	1	4	4	5

Value		H6NHMLIV	H7NHMLIV
0.No one in NHM		17641	19607
1.One of cpl in NHM		128	125
2.Both of cpl in NHM		18	20
3.Single R, in NHM		378	377

Value		H8NHMLIV	H9NHMLIV	H10NHMLIV	H11NHMLIV	H12NHMLIV
0.No one in NHM		17972	16716	21487	20009	18258
1.One of cpl in NHM		118	121	158	133	96
2.Both of cpl in NHM		26	18	35	33	40
3.Single R, in NHM		353	362	354	379	353

## General Comments

Income measures are reported in nominal dollars. When an HRS or AHEAD income component is missing, it is imputed using the method described in the section titled "Wealth and Income Imputations" earlier in this document. There are differences across waves in whether unfolding brackets are used to determine a range of income when a continuous amount is not given. In addition, the bracket amounts, entry points, and possible responses to the unfolding bracket questions differ across waves. The order in which income questions are asked also changes across waves. These differences are also discussed in more detail in the "Wealth and Income Imputations" section.

Generally, Wave 1 questions ask about 1991 income, and Wave 2H asks about 1993 income. Wave 2A and from

Wave 3 forward ask about income last calendar year. All questions are based on the Financial Respondent's interview year. Not all interviews are completely conducted in the same year for waves 2A, 3H, 4, and from 5 forward.

The HRS and AHEAD income components are summed to create the income measures requested for these files. For each derived income measure, a flag indicates whether any or all of its components were imputed. Individual income components and imputation flags are available in the RAND HRS Detailed Imputations File.

HRS and AHEAD income measures are reported at the household level. The Financial Respondent reports income for both her/himself and her/his spouse or partner. The Respondent income measures on this file are those of the Financial Respondent, if they are the same individual, and the spouse income measures are those of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse then the Financial Respondent-reported spouse income is assigned as the Respondent income and the Financial Respondent-reported Respondent income is assigned as the spouse income.

Please note that the imputation algorithms sometimes produce amounts that are quite large. This is particularly true for income from bonds, dividends and interest, and bonuses/overtime pay/commissions/tips, depending on the wave. Users are encouraged to examine outliers in the data, and address them as necessary, depending on the analytic goals.

## How Constructed

The Census definitions for determining poverty status and the methods used to apply them to HRS measures are described in "Determination of Poverty Status for Wave 6+" in the introduction.

The poverty status variables are included from Wave 6 forward. The household income from the last calendar year is compared to the U.S. Census poverty thresholds for the year prior to the interview wave. For example, for Wave 6 (HRS 2002), it is compared to poverty thresholds from 2001 and for Wave 7 (HRS 2004), it is compared to poverty thresholds from 2003. The family composition is derived using household members reported at the time of the interview.

HwINPOV indicates whether household income for the last calendar year is below the poverty threshold, using the U.S. Census definition and poverty thresholds. There are separate income levels for 48 categories of family composition. The number of resident family members, the number under 18 years old, and the age of the household head define family composition. HwPOVFAM provides the family composition used to determine the appropriate income level. HwPOVTHR stores the corresponding Census-given poverty threshold for the appropriate year. HwPOVHHI provides the household income compared to the poverty threshold, and HwINPOVR is the ratio of household income to the poverty threshold. HRS total household income (HwITOT) is adjusted to conform to the Census definition, that is, food stamps are subtracted, and Medicare Part B premiums deducted from Social Security, and income of other resident family members are added.

The Census (CPS-compatible) definition of resident family includes those away with no other residence who are not institutionalized. For compatibility, non-core resident family members who are away in institutions are not counted, and core HRS Respondents who reside in nursing homes are excluded. If the HRS Respondent lives in a nursing home at the time of the interview then HwINPOV, HwPOVFAM, HwPOVTHR, HwPOVHHI, and HwINPOVR are all set to a special missing value (.I) to indicate that the Census definition of poverty does not apply. If one person in a couple lives in a nursing home, s/he is not counted in determining the family composition, and her/his income is subtracted from the total household income. So HwPOVHHI is equal to the total household income less food stamps, plus Medicare Part B premiums deducted from Social Security, and income of non-core resident family members less earnings, pensions, social security, SSI, and government transfer income of any core HRS nursing home resident. HwNHMLIV summarizes the nursing home residence status of the core HRS household. It is based on RwNHMLIV and SwNHMLIV, documented in the Health section.

We provide another set of these variables that uses the same methods but includes institutionalized family members

who are part of the household. HRS Respondents living in a nursing home and non-core family members away in an institution are counted, and their income is included. Using these counts and income, HwINPOVA indicates whether in poverty, HwPVFAMA gives the family composition, HwPVTHRA is the poverty threshold for the family, HwPVHHIA is the total household income, and HwINPVRA is the ratio of household income to the poverty threshold.

## HRS Variables Used

HRS 2002:

HN004	MEDICARE PART B COVERAGE
HQ431_1	HHMEM PERSON NUMBER -1
HQ431_10	HHMEM PERSON NUMBER -10
HQ431_11	HHMEM PERSON NUMBER -11
HQ431_12	HHMEM PERSON NUMBER -12
HQ431_13	HHMEM PERSON NUMBER -12
HQ431_2	HHMEM PERSON NUMBER -2
HQ431_3	HHMEM PERSON NUMBER -3
HQ431_4	HHMEM PERSON NUMBER -4
HQ431_5	HHMEM PERSON NUMBER -5
HQ431_6	HHMEM PERSON NUMBER -6
HQ431_7	HHMEM PERSON NUMBER -7
HQ431_8	HHMEM PERSON NUMBER -8
HQ431_9	HHMEM PERSON NUMBER -9
HQ432_1	HHMEM WRKG LCY -1
HQ432_10	HHMEM WRKG LCY -10
HQ432_11	HHMEM WRKG LCY -11
HQ432_12	HHMEM WRKG LCY -12
HQ432_13	HHMEM WRKG LCY -12
HQ432_2	HHMEM WRKG LCY -2
HQ432_3	HHMEM WRKG LCY -3
HQ432_4	HHMEM WRKG LCY -4
HQ432_5	HHMEM WRKG LCY -5
HQ432_6	HHMEM WRKG LCY -6
HQ432_7	HHMEM WRKG LCY -7
HQ432_8	HHMEM WRKG LCY -8
HQ432_9	HHMEM WRKG LCY -9
HQ433_1	HHMEM EARNED AMOUNT - LCY -1
HQ433_10	HHMEM EARNED AMOUNT - LCY -10
HQ433_11	HHMEM EARNED AMOUNT - LCY -11
HQ433_12	HHMEM EARNED AMOUNT - LCY -12
HQ433_13	HHMEM EARNED AMOUNT - LCY -12
HQ433_2	HHMEM EARNED AMOUNT - LCY -2
HQ433_3	HHMEM EARNED AMOUNT - LCY -3
HQ433_4	HHMEM EARNED AMOUNT - LCY -4
HQ433_5	HHMEM EARNED AMOUNT - LCY -5
HQ433_6	HHMEM EARNED AMOUNT - LCY -6
HQ433_7	HHMEM EARNED AMOUNT - LCY -7
HQ433_8	HHMEM EARNED AMOUNT - LCY -8
HQ433_9	HHMEM EARNED AMOUNT - LCY -9
HQ434_1	HHMEM EARNED AMT - MIN -1
HQ434_10	HHMEM EARNED AMT - MIN -10
HQ434_11	HHMEM EARNED AMT - MIN -11
HQ434_12	HHMEM EARNED AMT - MIN -12
HQ434_13	HHMEM EARNED AMT - MIN -12
HQ434_2	HHMEM EARNED AMT - MIN -2
HQ434_3	HHMEM EARNED AMT - MIN -3
HQ434_4	HHMEM EARNED AMT - MIN -4
HQ434_5	HHMEM EARNED AMT - MIN -5
HQ434_6	HHMEM EARNED AMT - MIN -6
HQ434_7	HHMEM EARNED AMT - MIN -7

HQ434_8	HHMEM EARNED AMT - MIN -8
HQ434_9	HHMEM EARNED AMT - MIN -9
HQ435_1	HHMEM EARNED AMT - MAX -1
HQ435_10	HHMEM EARNED AMT - MAX -10
HQ435_11	HHMEM EARNED AMT - MAX -11
HQ435_12	HHMEM EARNED AMT - MAX -12
HQ435_13	HHMEM EARNED AMT - MAX -12
HQ435_2	HHMEM EARNED AMT - MAX -2
HQ435_3	HHMEM EARNED AMT - MAX -3
HQ435_4	HHMEM EARNED AMT - MAX -4
HQ435_5	HHMEM EARNED AMT - MAX -5
HQ435_6	HHMEM EARNED AMT - MAX -6
HQ435_7	HHMEM EARNED AMT - MAX -7
HQ435_8	HHMEM EARNED AMT - MAX -8
HQ435_9	HHMEM EARNED AMT - MAX -9
HQ436_1	HHMEM EARNED AMT - RESULT -1
HQ436_10	HHMEM EARNED AMT - RESULT -10
HQ436_11	HHMEM EARNED AMT - RESULT -11
HQ436_12	HHMEM EARNED AMT - RESULT 12
HQ436_13	HHMEM EARNED AMT - RESULT 12
HQ436_2	HHMEM EARNED AMT - RESULT -2
HQ436_3	HHMEM EARNED AMT - RESULT -3
HQ436_4	HHMEM EARNED AMT - RESULT -4
HQ436_5	HHMEM EARNED AMT - RESULT -5
HQ436_6	HHMEM EARNED AMT - RESULT -6
HQ436_7	HHMEM EARNED AMT - RESULT -7
HQ436_8	HHMEM EARNED AMT - RESULT -8
HQ436_9	HHMEM EARNED AMT - RESULT -9
HQ437	HHMEM NON JOB INCOME RECD AMOUNT
HQ438	HHMEM NON JOB INC AMT - MIN
HQ439	HHMEM NON JOB INC AMT - MAX
HQ440	HHMEM NON JOB INC AMT - RESULT
HX056_MC	RESIDENCY STATUS-UPDATED
HX060_MC	SEX OF INDIVIDUAL-UPDATED
HX061_MC	RELATIONSHIP TO R-UPDATED
HX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HX065_MC	COUPLENESS STATUS HHM - UPDATED
HX067_MC	YEAR BORN-UPDATED
HX069_MC	RELATION HHM TO HHM - UPDATED
HX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
HZ057_MC	PREV WAVE RESIDENCY STATUS
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2004:	
JN004	MEDICARE PART B COVERAGE
JQ431_1	HHMEM PERSON NUMBER -1
JQ431_10	HHMEM PERSON NUMBER -10
JQ431_11	HHMEM PERSON NUMBER -11
JQ431_12	HHMEM PERSON NUMBER -12
JQ431_2	HHMEM PERSON NUMBER -2
JQ431_3	HHMEM PERSON NUMBER -3
JQ431_4	HHMEM PERSON NUMBER -4
JQ431_5	HHMEM PERSON NUMBER -5
JQ431_6	HHMEM PERSON NUMBER -6
JQ431_7	HHMEM PERSON NUMBER -7
JQ431_8	HHMEM PERSON NUMBER -8
JQ431_9	HHMEM PERSON NUMBER -9
JQ432_1	HHMEM WRKG LCY -1
JQ432_10	HHMEM WRKG LCY -10
JQ432_11	HHMEM WRKG LCY -11

JQ432_12	HHMEM WRKG LCY -12
JQ432_2	HHMEM WRKG LCY -2
JQ432_3	HHMEM WRKG LCY -3
JQ432_4	HHMEM WRKG LCY -4
JQ432_5	HHMEM WRKG LCY -5
JQ432_6	HHMEM WRKG LCY -6
JQ432_7	HHMEM WRKG LCY -7
JQ432_8	HHMEM WRKG LCY -8
JQ432_9	HHMEM WRKG LCY -9
JQ433_1	HHMEM EARNED AMOUNT - LCY -1
JQ433_10	HHMEM EARNED AMOUNT - LCY -10
JQ433_11	HHMEM EARNED AMOUNT - LCY -11
JQ433_12	HHMEM EARNED AMOUNT - LCY -12
JQ433_2	HHMEM EARNED AMOUNT - LCY -2
JQ433_3	HHMEM EARNED AMOUNT - LCY -3
JQ433_4	HHMEM EARNED AMOUNT - LCY -4
JQ433_5	HHMEM EARNED AMOUNT - LCY -5
JQ433_6	HHMEM EARNED AMOUNT - LCY -6
JQ433_7	HHMEM EARNED AMOUNT - LCY -7
JQ433_8	HHMEM EARNED AMOUNT - LCY -8
JQ433_9	HHMEM EARNED AMOUNT - LCY -9
JQ434_1	HHMEM EARNED AMT - MIN -1
JQ434_10	HHMEM EARNED AMT - MIN -10
JQ434_11	HHMEM EARNED AMT - MIN -11
JQ434_12	HHMEM EARNED AMT - MIN -12
JQ434_2	HHMEM EARNED AMT - MIN -2
JQ434_3	HHMEM EARNED AMT - MIN -3
JQ434_4	HHMEM EARNED AMT - MIN -4
JQ434_5	HHMEM EARNED AMT - MIN -5
JQ434_6	HHMEM EARNED AMT - MIN -6
JQ434_7	HHMEM EARNED AMT - MIN -7
JQ434_8	HHMEM EARNED AMT - MIN -8
JQ434_9	HHMEM EARNED AMT - MIN -9
JQ435_1	HHMEM EARNED AMT - MAX -1
JQ435_10	HHMEM EARNED AMT - MAX -10
JQ435_11	HHMEM EARNED AMT - MAX -11
JQ435_12	HHMEM EARNED AMT - MAX -12
JQ435_2	HHMEM EARNED AMT - MAX -2
JQ435_3	HHMEM EARNED AMT - MAX -3
JQ435_4	HHMEM EARNED AMT - MAX -4
JQ435_5	HHMEM EARNED AMT - MAX -5
JQ435_6	HHMEM EARNED AMT - MAX -6
JQ435_7	HHMEM EARNED AMT - MAX -7
JQ435_8	HHMEM EARNED AMT - MAX -8
JQ435_9	HHMEM EARNED AMT - MAX -9
JQ436_1	HHMEM EARNED AMT - RESULT -1
JQ436_10	HHMEM EARNED AMT - RESULT -10
JQ436_11	HHMEM EARNED AMT - RESULT -11
JQ436_12	HHMEM EARNED AMT - RESULT 12
JQ436_2	HHMEM EARNED AMT - RESULT -2
JQ436_3	HHMEM EARNED AMT - RESULT -3
JQ436_4	HHMEM EARNED AMT - RESULT -4
JQ436_5	HHMEM EARNED AMT - RESULT -5
JQ436_6	HHMEM EARNED AMT - RESULT -6
JQ436_7	HHMEM EARNED AMT - RESULT -7
JQ436_8	HHMEM EARNED AMT - RESULT -8
JQ436_9	HHMEM EARNED AMT - RESULT -9
JQ437	HHMEM NON JOB INCOME RECD AMOUNT
JQ438	HHMEM NON JOB INC AMT - MIN

JQ439	HHMEM NON JOB INC AMT - MAX
JQ440	HHMEM NON JOB INC AMT - RESULT
JX056_MC	RESIDENCY STATUS-UPDATED
JX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
JX061_MC	RELATIONSHIP TO R-UPDATED
JX063_MC	RELATIONSHIP HHM TO SP - UPDATED
JX065_MC	COUPLENESS STATUS HHM - UPDATED
JX067_MC	YEAR BORN-UPDATED - MC
JX069_MC	RELATION HHM TO HHM - UPDATED
JX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
JZ057_MC	PREV WAVE RESIDENCY STATUS
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2006:	
KN004	MEDICARE PART B COVERAGE
KQ431_1	HHMEM PERSON NUMBER -1
KQ431_10	HHMEM PERSON NUMBER -10
KQ431_11	HHMEM PERSON NUMBER -11
KQ431_12	HHMEM PERSON NUMBER -12
KQ431_2	HHMEM PERSON NUMBER -2
KQ431_3	HHMEM PERSON NUMBER -3
KQ431_4	HHMEM PERSON NUMBER -4
KQ431_5	HHMEM PERSON NUMBER -5
KQ431_6	HHMEM PERSON NUMBER -6
KQ431_7	HHMEM PERSON NUMBER -7
KQ431_8	HHMEM PERSON NUMBER -8
KQ431_9	HHMEM PERSON NUMBER -9
KQ432_1	HHMEM WRKG LCY -1
KQ432_10	HHMEM WRKG LCY -10
KQ432_11	HHMEM WRKG LCY -11
KQ432_12	HHMEM WRKG LCY -12
KQ432_2	HHMEM WRKG LCY -2
KQ432_3	HHMEM WRKG LCY -3
KQ432_4	HHMEM WRKG LCY -4
KQ432_5	HHMEM WRKG LCY -5
KQ432_6	HHMEM WRKG LCY -6
KQ432_7	HHMEM WRKG LCY -7
KQ432_8	HHMEM WRKG LCY -8
KQ432_9	HHMEM WRKG LCY -9
KQ433_1	HHMEM EARNED AMOUNT - LCY -1
KQ433_10	HHMEM EARNED AMOUNT - LCY -10
KQ433_11	HHMEM EARNED AMOUNT - LCY -11
KQ433_12	HHMEM EARNED AMOUNT - LCY -12
KQ433_2	HHMEM EARNED AMOUNT - LCY -2
KQ433_3	HHMEM EARNED AMOUNT - LCY -3
KQ433_4	HHMEM EARNED AMOUNT - LCY -4
KQ433_5	HHMEM EARNED AMOUNT - LCY -5
KQ433_6	HHMEM EARNED AMOUNT - LCY -6
KQ433_7	HHMEM EARNED AMOUNT - LCY -7
KQ433_8	HHMEM EARNED AMOUNT - LCY -8
KQ433_9	HHMEM EARNED AMOUNT - LCY -9
KQ434_1	HHMEM EARNED AMT - MIN -1
KQ434_10	HHMEM EARNED AMT - MIN -10
KQ434_11	HHMEM EARNED AMT - MIN -11
KQ434_12	HHMEM EARNED AMT - MIN -12
KQ434_2	HHMEM EARNED AMT - MIN -2
KQ434_3	HHMEM EARNED AMT - MIN -3
KQ434_4	HHMEM EARNED AMT - MIN -4
KQ434_5	HHMEM EARNED AMT - MIN -5
KQ434_6	HHMEM EARNED AMT - MIN -6

KQ434_7	HHMEM EARNED AMT - MIN -7
KQ434_8	HHMEM EARNED AMT - MIN -8
KQ434_9	HHMEM EARNED AMT - MIN -9
KQ435_1	HHMEM EARNED AMT - MAX -1
KQ435_10	HHMEM EARNED AMT - MAX -10
KQ435_11	HHMEM EARNED AMT - MAX -11
KQ435_12	HHMEM EARNED AMT - MAX -12
KQ435_2	HHMEM EARNED AMT - MAX -2
KQ435_3	HHMEM EARNED AMT - MAX -3
KQ435_4	HHMEM EARNED AMT - MAX -4
KQ435_5	HHMEM EARNED AMT - MAX -5
KQ435_6	HHMEM EARNED AMT - MAX -6
KQ435_7	HHMEM EARNED AMT - MAX -7
KQ435_8	HHMEM EARNED AMT - MAX -8
KQ435_9	HHMEM EARNED AMT - MAX -9
KQ436_1	HHMEM EARNED AMT - RESULT -1
KQ436_10	HHMEM EARNED AMT - RESULT -10
KQ436_11	HHMEM EARNED AMT - RESULT -11
KQ436_12	HHMEM EARNED AMT - RESULT 12
KQ436_2	HHMEM EARNED AMT - RESULT -2
KQ436_3	HHMEM EARNED AMT - RESULT -3
KQ436_4	HHMEM EARNED AMT - RESULT -4
KQ436_5	HHMEM EARNED AMT - RESULT -5
KQ436_6	HHMEM EARNED AMT - RESULT -6
KQ436_7	HHMEM EARNED AMT - RESULT -7
KQ436_8	HHMEM EARNED AMT - RESULT -8
KQ436_9	HHMEM EARNED AMT - RESULT -9
KQ437	HHMEM NON JOB INCOME RECD AMOUNT
KQ438	HHMEM NON JOB INC AMT - MIN
KQ439	HHMEM NON JOB INC AMT - MAX
KQ440	HHMEM NON JOB INC AMT - RESULT
KX056_MC	RESIDENCY STATUS-UPDATED
KX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
KX061_MC	RELATIONSHIP TO R-UPDATED
KX063_MC	RELATIONSHIP HHM TO SP - UPDATED
KX065_MC	COUPLENESS STATUS HHM - UPDATED
KX067_MC	YEAR BORN-UPDATED - MC
KX069_MC	RELATION HHM TO HHM - UPDATED
KX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
KZ057_MC	PREV WAVE RESIDENCY STATUS
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2008:	
LN004	MEDICARE PART B COVERAGE
LQ431_1	HHMEM PERSON NUMBER -1
LQ431_10	HHMEM PERSON NUMBER -10
LQ431_11	HHMEM PERSON NUMBER -11
LQ431_12	HHMEM PERSON NUMBER -12
LQ431_2	HHMEM PERSON NUMBER -2
LQ431_3	HHMEM PERSON NUMBER -3
LQ431_4	HHMEM PERSON NUMBER -4
LQ431_5	HHMEM PERSON NUMBER -5
LQ431_6	HHMEM PERSON NUMBER -6
LQ431_7	HHMEM PERSON NUMBER -7
LQ431_8	HHMEM PERSON NUMBER -8
LQ431_9	HHMEM PERSON NUMBER -9
LQ432_1	HHMEM WRKG LCY -1
LQ432_10	HHMEM WRKG LCY -10
LQ432_11	HHMEM WRKG LCY -11
LQ432_12	HHMEM WRKG LCY -12



LQ432_2	HHMEM WRKG LCY -2
LQ432_3	HHMEM WRKG LCY -3
LQ432_4	HHMEM WRKG LCY -4
LQ432_5	HHMEM WRKG LCY -5
LQ432_6	HHMEM WRKG LCY -6
LQ432_7	HHMEM WRKG LCY -7
LQ432_8	HHMEM WRKG LCY -8
LQ432_9	HHMEM WRKG LCY -9
LQ433_1	HHMEM EARNED AMOUNT - LCY -1
LQ433_10	HHMEM EARNED AMOUNT - LCY -10
LQ433_11	HHMEM EARNED AMOUNT - LCY -11
LQ433_12	HHMEM EARNED AMOUNT - LCY -12
LQ433_2	HHMEM EARNED AMOUNT - LCY -2
LQ433_3	HHMEM EARNED AMOUNT - LCY -3
LQ433_4	HHMEM EARNED AMOUNT - LCY -4
LQ433_5	HHMEM EARNED AMOUNT - LCY -5
LQ433_6	HHMEM EARNED AMOUNT - LCY -6
LQ433_7	HHMEM EARNED AMOUNT - LCY -7
LQ433_8	HHMEM EARNED AMOUNT - LCY -8
LQ433_9	HHMEM EARNED AMOUNT - LCY -9
LQ434_1	HHMEM EARNED AMT - MIN -1
LQ434_10	HHMEM EARNED AMT - MIN -10
LQ434_11	HHMEM EARNED AMT - MIN -11
LQ434_12	HHMEM EARNED AMT - MIN -12
LQ434_2	HHMEM EARNED AMT - MIN -2
LQ434_3	HHMEM EARNED AMT - MIN -3
LQ434_4	HHMEM EARNED AMT - MIN -4
LQ434_5	HHMEM EARNED AMT - MIN -5
LQ434_6	HHMEM EARNED AMT - MIN -6
LQ434_7	HHMEM EARNED AMT - MIN -7
LQ434_8	HHMEM EARNED AMT - MIN -8
LQ434_9	HHMEM EARNED AMT - MIN -9
LQ435_1	HHMEM EARNED AMT - MAX -1
LQ435_10	HHMEM EARNED AMT - MAX -10
LQ435_11	HHMEM EARNED AMT - MAX -11
LQ435_12	HHMEM EARNED AMT - MAX -12
LQ435_2	HHMEM EARNED AMT - MAX -2
LQ435_3	HHMEM EARNED AMT - MAX -3
LQ435_4	HHMEM EARNED AMT - MAX -4
LQ435_5	HHMEM EARNED AMT - MAX -5
LQ435_6	HHMEM EARNED AMT - MAX -6
LQ435_7	HHMEM EARNED AMT - MAX -7
LQ435_8	HHMEM EARNED AMT - MAX -8
LQ435_9	HHMEM EARNED AMT - MAX -9
LQ436_1	HHMEM EARNED AMT - RESULT -1
LQ436_10	HHMEM EARNED AMT - RESULT -10
LQ436_11	HHMEM EARNED AMT - RESULT -11
LQ436_12	HHMEM EARNED AMT - RESULT 12
LQ436_2	HHMEM EARNED AMT - RESULT -2
LQ436_3	HHMEM EARNED AMT - RESULT -3
LQ436_4	HHMEM EARNED AMT - RESULT -4
LQ436_5	HHMEM EARNED AMT - RESULT -5
LQ436_6	HHMEM EARNED AMT - RESULT -6
LQ436_7	HHMEM EARNED AMT - RESULT -7
LQ436_8	HHMEM EARNED AMT - RESULT -8
LQ436_9	HHMEM EARNED AMT - RESULT -9
LQ437	HHMEM NON JOB INCOME RECD AMOUNT
LQ438	HHMEM NON JOB INC AMT - MIN
LQ439	HHMEM NON JOB INC AMT - MAX

LQ440	HHMEM NON JOB INC AMT - RESULT
LX056_MC	RESIDENCY STATUS-UPDATED
LX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
LX061_MC	RELATIONSHIP TO R-UPDATED
LX063_MC	RELATIONSHIP HHM TO SP - UPDATED
LX065_MC	COUPLENESS STATUS HHM - UPDATED
LX067_MC	YEAR BORN-UPDATED - MC
LX069_MC	RELATION HHM TO HHM - UPDATED
LX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
LZ057_MC	PREV WAVE RESIDENCY STATUS
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2010:	
MN004	MEDICARE PART B COVERAGE
MQ431_1	HHMEM PERSON NUMBER -1
MQ431_10	HHMEM PERSON NUMBER -10
MQ431_11	HHMEM PERSON NUMBER -11
MQ431_12	HHMEM PERSON NUMBER -12
MQ431_2	HHMEM PERSON NUMBER -2
MQ431_3	HHMEM PERSON NUMBER -3
MQ431_4	HHMEM PERSON NUMBER -4
MQ431_5	HHMEM PERSON NUMBER -5
MQ431_6	HHMEM PERSON NUMBER -6
MQ431_7	HHMEM PERSON NUMBER -7
MQ431_8	HHMEM PERSON NUMBER -8
MQ431_9	HHMEM PERSON NUMBER -9
MQ432_1	HHMEM WRKG LCY -1
MQ432_10	HHMEM WRKG LCY -10
MQ432_11	HHMEM WRKG LCY -11
MQ432_12	HHMEM WRKG LCY -12
MQ432_2	HHMEM WRKG LCY -2
MQ432_3	HHMEM WRKG LCY -3
MQ432_4	HHMEM WRKG LCY -4
MQ432_5	HHMEM WRKG LCY -5
MQ432_6	HHMEM WRKG LCY -6
MQ432_7	HHMEM WRKG LCY -7
MQ432_8	HHMEM WRKG LCY -8
MQ432_9	HHMEM WRKG LCY -9
MQ433_1	HHMEM EARNED AMOUNT - LCY -1
MQ433_10	HHMEM EARNED AMOUNT - LCY -10
MQ433_11	HHMEM EARNED AMOUNT - LCY -11
MQ433_12	HHMEM EARNED AMOUNT - LCY -12
MQ433_2	HHMEM EARNED AMOUNT - LCY -2
MQ433_3	HHMEM EARNED AMOUNT - LCY -3
MQ433_4	HHMEM EARNED AMOUNT - LCY -4
MQ433_5	HHMEM EARNED AMOUNT - LCY -5
MQ433_6	HHMEM EARNED AMOUNT - LCY -6
MQ433_7	HHMEM EARNED AMOUNT - LCY -7
MQ433_8	HHMEM EARNED AMOUNT - LCY -8
MQ433_9	HHMEM EARNED AMOUNT - LCY -9
MQ434_1	HHMEM EARNED AMT - MIN -1
MQ434_10	HHMEM EARNED AMT - MIN -10
MQ434_11	HHMEM EARNED AMT - MIN -11
MQ434_12	HHMEM EARNED AMT - MIN -12
MQ434_2	HHMEM EARNED AMT - MIN -2
MQ434_3	HHMEM EARNED AMT - MIN -3
MQ434_4	HHMEM EARNED AMT - MIN -4
MQ434_5	HHMEM EARNED AMT - MIN -5
MQ434_6	HHMEM EARNED AMT - MIN -6
MQ434_7	HHMEM EARNED AMT - MIN -7

MQ434_8	HHMEM EARNED AMT - MIN -8
MQ434_9	HHMEM EARNED AMT - MIN -9
MQ435_1	HHMEM EARNED AMT - MAX -1
MQ435_10	HHMEM EARNED AMT - MAX -10
MQ435_11	HHMEM EARNED AMT - MAX -11
MQ435_12	HHMEM EARNED AMT - MAX -12
MQ435_2	HHMEM EARNED AMT - MAX -2
MQ435_3	HHMEM EARNED AMT - MAX -3
MQ435_4	HHMEM EARNED AMT - MAX -4
MQ435_5	HHMEM EARNED AMT - MAX -5
MQ435_6	HHMEM EARNED AMT - MAX -6
MQ435_7	HHMEM EARNED AMT - MAX -7
MQ435_8	HHMEM EARNED AMT - MAX -8
MQ435_9	HHMEM EARNED AMT - MAX -9
MQ436_1	HHMEM EARNED AMT - RESULT -1
MQ436_10	HHMEM EARNED AMT - RESULT -10
MQ436_11	HHMEM EARNED AMT - RESULT -11
MQ436_12	HHMEM EARNED AMT - RESULT 12
MQ436_2	HHMEM EARNED AMT - RESULT -2
MQ436_3	HHMEM EARNED AMT - RESULT -3
MQ436_4	HHMEM EARNED AMT - RESULT -4
MQ436_5	HHMEM EARNED AMT - RESULT -5
MQ436_6	HHMEM EARNED AMT - RESULT -6
MQ436_7	HHMEM EARNED AMT - RESULT -7
MQ436_8	HHMEM EARNED AMT - RESULT -8
MQ436_9	HHMEM EARNED AMT - RESULT -9
MQ437	HHMEM NON JOB INCOME RECD AMOUNT
MQ438	HHMEM NON JOB INC AMT - MIN
MQ439	HHMEM NON JOB INC AMT - MAX
MQ440	HHMEM NON JOB INC AMT - RESULT
MX056_MC	RESIDENCY STATUS-UPDATED
MX057_MC	PREV WAVE RESIDENCY STATUS
MX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
MX061_MC	RELATIONSHIP TO R-UPDATED
MX063_MC	RELATIONSHIP HHM TO SP - UPDATED
MX065_MC	COUPLENESS STATUS HHM - UPDATED
MX067_MC	YEAR BORN-UPDATED - MC
MX069_MC	RELATION HHM TO HHM - UPDATED
MX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2012:	
NN004	MEDICARE PART B COVERAGE
NQ431_1	HHMEM PERSON NUMBER -1
NQ431_10	HHMEM PERSON NUMBER -10
NQ431_11	HHMEM PERSON NUMBER -11
NQ431_12	HHMEM PERSON NUMBER -12
NQ431_2	HHMEM PERSON NUMBER -2
NQ431_3	HHMEM PERSON NUMBER -3
NQ431_4	HHMEM PERSON NUMBER -4
NQ431_5	HHMEM PERSON NUMBER -5
NQ431_6	HHMEM PERSON NUMBER -6
NQ431_7	HHMEM PERSON NUMBER -7
NQ431_8	HHMEM PERSON NUMBER -8
NQ431_9	HHMEM PERSON NUMBER -9
NQ432_1	HHMEM WRKG LCY -1
NQ432_10	HHMEM WRKG LCY -10
NQ432_11	HHMEM WRKG LCY -11
NQ432_12	HHMEM WRKG LCY -12
NQ432_2	HHMEM WRKG LCY -2

NQ432_3	HHMEM WRKG LCY -3
NQ432_4	HHMEM WRKG LCY -4
NQ432_5	HHMEM WRKG LCY -5
NQ432_6	HHMEM WRKG LCY -6
NQ432_7	HHMEM WRKG LCY -7
NQ432_8	HHMEM WRKG LCY -8
NQ432_9	HHMEM WRKG LCY -9
NQ433_1	HHMEM EARNED AMOUNT - LCY -1
NQ433_10	HHMEM EARNED AMOUNT - LCY -10
NQ433_11	HHMEM EARNED AMOUNT - LCY -11
NQ433_12	HHMEM EARNED AMOUNT - LCY -12
NQ433_2	HHMEM EARNED AMOUNT - LCY -2
NQ433_3	HHMEM EARNED AMOUNT - LCY -3
NQ433_4	HHMEM EARNED AMOUNT - LCY -4
NQ433_5	HHMEM EARNED AMOUNT - LCY -5
NQ433_6	HHMEM EARNED AMOUNT - LCY -6
NQ433_7	HHMEM EARNED AMOUNT - LCY -7
NQ433_8	HHMEM EARNED AMOUNT - LCY -8
NQ433_9	HHMEM EARNED AMOUNT - LCY -9
NQ434_1	HHMEM EARNED AMT - MIN -1
NQ434_10	HHMEM EARNED AMT - MIN -10
NQ434_11	HHMEM EARNED AMT - MIN -11
NQ434_12	HHMEM EARNED AMT - MIN -12
NQ434_2	HHMEM EARNED AMT - MIN -2
NQ434_3	HHMEM EARNED AMT - MIN -3
NQ434_4	HHMEM EARNED AMT - MIN -4
NQ434_5	HHMEM EARNED AMT - MIN -5
NQ434_6	HHMEM EARNED AMT - MIN -6
NQ434_7	HHMEM EARNED AMT - MIN -7
NQ434_8	HHMEM EARNED AMT - MIN -8
NQ434_9	HHMEM EARNED AMT - MIN -9
NQ435_1	HHMEM EARNED AMT - MAX -1
NQ435_10	HHMEM EARNED AMT - MAX -10
NQ435_11	HHMEM EARNED AMT - MAX -11
NQ435_12	HHMEM EARNED AMT - MAX -12
NQ435_2	HHMEM EARNED AMT - MAX -2
NQ435_3	HHMEM EARNED AMT - MAX -3
NQ435_4	HHMEM EARNED AMT - MAX -4
NQ435_5	HHMEM EARNED AMT - MAX -5
NQ435_6	HHMEM EARNED AMT - MAX -6
NQ435_7	HHMEM EARNED AMT - MAX -7
NQ435_8	HHMEM EARNED AMT - MAX -8
NQ435_9	HHMEM EARNED AMT - MAX -9
NQ436_1	HHMEM EARNED AMT - RESULT -1
NQ436_10	HHMEM EARNED AMT - RESULT -10
NQ436_11	HHMEM EARNED AMT - RESULT -11
NQ436_12	HHMEM EARNED AMT - RESULT 12
NQ436_2	HHMEM EARNED AMT - RESULT -2
NQ436_3	HHMEM EARNED AMT - RESULT -3
NQ436_4	HHMEM EARNED AMT - RESULT -4
NQ436_5	HHMEM EARNED AMT - RESULT -5
NQ436_6	HHMEM EARNED AMT - RESULT -6
NQ436_7	HHMEM EARNED AMT - RESULT -7
NQ436_8	HHMEM EARNED AMT - RESULT -8
NQ436_9	HHMEM EARNED AMT - RESULT -9
NQ437	HHMEM NON JOB INCOME RECD AMOUNT
NQ438	HHMEM NON JOB INC AMT - MIN
NQ439	HHMEM NON JOB INC AMT - MAX
NQ440	HHMEM NON JOB INC AMT - RESULT

NX056_MC	RESIDENCY STATUS-UPDATED
NX057_MC	PREV WAVE RESIDENCY STATUS
NX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
NX061_MC	RELATIONSHIP TO R-UPDATED
NX063_MC	RELATIONSHIP HHM TO SP - UPDATED
NX065_MC	COUPLENESS STATUS HHM - UPDATED
NX067_MC	YEAR BORN-UPDATED - MC
NX069_MC	RELATION HHM TO HHM - UPDATED
NX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
HRS 2014:	
ON004	MEDICARE PART B COVERAGE
OPN	PN OF KID/HHM/SIB AND THEIR SPOUSES
OQ431_1	HHMEM PERSON NUMBER -1
OQ431_10	HHMEM PERSON NUMBER -10
OQ431_2	HHMEM PERSON NUMBER -2
OQ431_3	HHMEM PERSON NUMBER -3
OQ431_4	HHMEM PERSON NUMBER -4
OQ431_5	HHMEM PERSON NUMBER -5
OQ431_6	HHMEM PERSON NUMBER -6
OQ431_7	HHMEM PERSON NUMBER -7
OQ431_8	HHMEM PERSON NUMBER -8
OQ431_9	HHMEM PERSON NUMBER -9
OQ432_1	HHMEM WRKG LCY -1
OQ432_10	HHMEM WRKG LCY -10
OQ432_2	HHMEM WRKG LCY -2
OQ432_3	HHMEM WRKG LCY -3
OQ432_4	HHMEM WRKG LCY -4
OQ432_5	HHMEM WRKG LCY -5
OQ432_6	HHMEM WRKG LCY -6
OQ432_7	HHMEM WRKG LCY -7
OQ432_8	HHMEM WRKG LCY -8
OQ432_9	HHMEM WRKG LCY -9
OQ433_1	HHMEM EARNED AMOUNT - LCY -1
OQ433_10	HHMEM EARNED AMOUNT - LCY -10
OQ433_2	HHMEM EARNED AMOUNT - LCY -2
OQ433_3	HHMEM EARNED AMOUNT - LCY -3
OQ433_4	HHMEM EARNED AMOUNT - LCY -4
OQ433_5	HHMEM EARNED AMOUNT - LCY -5
OQ433_6	HHMEM EARNED AMOUNT - LCY -6
OQ433_7	HHMEM EARNED AMOUNT - LCY -7
OQ433_8	HHMEM EARNED AMOUNT - LCY -8
OQ433_9	HHMEM EARNED AMOUNT - LCY -9
OQ434_1	HHMEM EARNED AMT - MIN -1
OQ434_10	HHMEM EARNED AMT - MIN -10
OQ434_2	HHMEM EARNED AMT - MIN -2
OQ434_3	HHMEM EARNED AMT - MIN -3
OQ434_4	HHMEM EARNED AMT - MIN -4
OQ434_5	HHMEM EARNED AMT - MIN -5
OQ434_6	HHMEM EARNED AMT - MIN -6
OQ434_7	HHMEM EARNED AMT - MIN -7
OQ434_8	HHMEM EARNED AMT - MIN -8
OQ434_9	HHMEM EARNED AMT - MIN -9
OQ435_1	HHMEM EARNED AMT - MAX -1
OQ435_10	HHMEM EARNED AMT - MAX -10
OQ435_2	HHMEM EARNED AMT - MAX -2
OQ435_3	HHMEM EARNED AMT - MAX -3
OQ435_4	HHMEM EARNED AMT - MAX -4
OQ435_5	HHMEM EARNED AMT - MAX -5

OQ435_6	HHMEM EARNED AMT - MAX -6
OQ435_7	HHMEM EARNED AMT - MAX -7
OQ435_8	HHMEM EARNED AMT - MAX -8
OQ435_9	HHMEM EARNED AMT - MAX -9
OQ436_1	HHMEM EARNED AMT - RESULT -1
OQ436_10	HHMEM EARNED AMT - RESULT -10
OQ436_2	HHMEM EARNED AMT - RESULT -2
OQ436_3	HHMEM EARNED AMT - RESULT -3
OQ436_4	HHMEM EARNED AMT - RESULT -4
OQ436_5	HHMEM EARNED AMT - RESULT -5
OQ436_6	HHMEM EARNED AMT - RESULT -6
OQ436_7	HHMEM EARNED AMT - RESULT -7
OQ436_8	HHMEM EARNED AMT - RESULT -8
OQ436_9	HHMEM EARNED AMT - RESULT -9
OQ437	HHMEM NON JOB INCOME RECD AMOUNT
OQ438	HHMEM NON JOB INC AMT - MIN
OQ439	HHMEM NON JOB INC AMT - MAX
OQ440	HHMEM NON JOB INC AMT - RESULT
OX056_MC	RESIDENCY STATUS-UPDATED
OX060_MC	SEX OF INDIVIDUAL-UPDATED - MC
OX061_MC	RELATIONSHIP TO R-UPDATED
OX063_MC	RELATIONSHIP HHM TO SP - UPDATED
OX065_MC	COUPLENESS STATUS HHM - UPDATED
OX067_MC	YEAR BORN-UPDATED - MC
OX069_MC	RELATION HHM TO HHM - UPDATED
OX073_MC	YEAR HHM MOVED IN/OUT/DIED-UPDATED

## **Section E: Social Security**

### Receives Social Security in any wave

Wave	Variable	Label	Type
1	RASSRECV	RASSRECV: R Receives SocSec	Categ
1	SASSRECV	SASSRECV: Any Spouse Receives SocSec	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RASSRECV	37495	0.71	0.45	0.0	1.0
SASSRECV	28053	0.64	0.48	0.0	1.0

### Categorical Variable Codes

Value	RASSRECV
0.No	10820
1.Yes	26675

Value	SASSRECV
.U=Unmarried	9442
0.No	10074
1.Yes	17979

### How Constructed

RASSRECV is derived by looking at all waves of data. If the Respondent receives Social Security (OASDI) at any wave, RASSRECV is set to "yes" (=1).

SASSRECV is derived by looking at all waves of data. If any of the Respondent's spouses receives Social Security at any wave, SASSRECV is set to "yes" (=1). If the Respondent is not in a couple household in any wave, and never reports a spouse receiving Social Security, SASSRECV is set to SAS special missing value .U for unmarried.

Social Security income measures are reported at the household level at all waves. The Financial Respondent reports income for both her/himself and her/his spouse or partner. Through Wave 5, Social Security income is taken from a variable in the Assets and Income section that identifies who receives this type of income: Financial Respondent only, Financial Respondent's spouse only, or both. If both the Financial Respondent and the Financial Respondent's spouse receive Social Security income, then both RASSRECV and SASSRECV are set to yes. If the Respondent is the Financial Respondent, then a response indicating, "Financial Respondent only" sets RASSRECV to yes and a response indicating, "Financial Respondent's spouse only" sets SASSRECV to yes. If the Respondent is the Financial Respondent's spouse, then a response indicating, "Financial Respondent only" sets SASSRECV to yes, and a response indicating, "Financial Respondent's spouse only" sets RASSRECV to yes.



From Wave 6 onward, all Respondents are asked whether they receive Social Security in the Employment section. In addition, the Financial Respondent is asked if her/his spouse receives Social Security income in the Assets and Income section. To derive SASSRECV, the self-report of the Financial Respondent's spouse is used first, but if it is missing, or if the spouse did not respond, the Financial Respondent's report from the Assets and Income section is used.

### Cross Wave Differences in Original HRS Data

The Financial Respondent (FinR) answers all questions in the Assets and Income section for the entire household. Through Wave 5, the Financial Respondent is asked if anyone in the household receives Social Security income, and if so, who (Financial Respondent only, Financial Respondent's spouse only, or both).

In Wave 1 and 2A, the raw data provide one variable that combines the answers to these two questions. In Wave 3A, the question is asked separately for the Financial Respondent and spouse. In Waves 2H, 3H, 4, and 5, there are two variables to capture this information.

From Wave 6 onward, all Respondents are asked in the Employment section whether they receive Social Security income. In the Assets and Income section, the Financial Respondent's response is carried from the Employment section, and the Financial Respondent is then asked if the spouse receives any Social Security income. There are thus two possible sources for whether the spouse of the Financial Respondent receives Social Security income: the spouse's own response in the Employment section and the Financial Respondent's report in the Assets and Income section.

### HRS Variables Used

HRS 1992:	
VR6000	VR6000: Who receives SocSec/ Self
AHEAD 1993:	
BR1376	J1.SS:RECEIVE ANY/Self
HRS 1994:	
W6253	N23.SOCIAL SECURITY?
W6254	N23a.WHO RECEIVED SOCIAL
AHEAD 1995:	
DP3875	J1/5.RECEIVE SOC SEC / SP-P
DR3875	J1/5.RECEIVE SOC SEC / R
HRS 1996:	
E3983	J45.SOC SEC INCOME
ER3984	J46.WHO RECEIVE SOC SEC INCOME/Self
HRS 1998:	
F4743	J45.SOC SEC INCOME
FR4744	J46.WHO RECEIVE SOC SEC INCOME/Self
HRS 2000:	
G5182	J45.SOC SEC INCOME
GR5185	J46.WHO RECEIVE SOC SEC INCOME/Self
HRS 2002:	
HJ478	CURRENTLY RECV SOC SEC INCOME
HQR106	WHO RECEIVED INC FROM SSI LAST MONTH/Sel
HRS 2004:	
JJ478	CURRENTLY RECV SOC SEC INCOME
JQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HRS 2006:	
KJ478	CURRENTLY RECV SOC SEC INCOME
KQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HRS 2008:	
LJ478	CURRENTLY RECV SOC SEC INCOME

LQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HRS 2010:	
MJ478	CURRENTLY RECV SOC SEC INCOME
MQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HRS 2012:	
NJ478	CURRENTLY RECV SOC SEC INCOME
NQ106	WHO RECEIVED INC FROM SSI LAST MONTH
HRS 2014:	
OJ478	CURRENTLY RECV SOC SEC INCOME
OQ106	WHO RECEIVED INC FROM SSI LAST MONTH
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT
BFINR	1993 WHETHER FINANCIAL RESPONDENT
CFINR	1994 WHETHER FINANCIAL RESPONDENT
DFINR	1995 WHETHER FINANCIAL RESPONDENT
EFINR	1996 WHETHER FINANCIAL RESPONDENT
FFINR	1998 WHETHER FINANCIAL RESPONDENT
GFINR	2000 WHETHER FINANCIAL RESPONDENT
HFINR	2002 WHETHER FINANCIAL RESPONDENT
JFINR	2004 WHETHER FINANCIAL RESPONDENT
KFINR	2006 WHETHER FINANCIAL RESPONDENT
LFINR	2008 WHETHER FINANCIAL RESPONDENT
MFINR	2010 WHETHER FINANCIAL RESPONDENT
NFINR	2012 WHETHER FINANCIAL RESPONDENT
OFINR	2014 WHETHER FINANCIAL RESPONDENT

### Age when started to receive Social Security

Wave	Variable	Label	Type
1	RASSAGEM	RASSAGEM: Age/months R Start Rec. SocSec	Cont
1	SASSAGEM	SASSAGEM: Age/mnth Sp Start Rec. SocSec	Cont
1	RASSAGEB	RASSAGEB: Age R Start Rec. SocSec	Cont
1	SASSAGEB	SASSAGEB: Age Sp Start Rec. SocSec	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RASSAGEM	17206	728.39	79.88	1.0	1112.0
SASSAGEM	11750	736.25	70.68	1.0	1081.0
RASSAGEB	17206	60.71	6.66	0.1	92.7
SASSAGEB	11750	61.37	5.89	0.1	90.1

### How Constructed

RASSAGEB is the age in years and RASSAGEM is the age in months when the Respondent starts to receive Social Security (OASDI) income.

SASSAGEB is the age in years and SASSAGEM is the age in months when the Respondent's spouse or partner starts to receive Social Security income. If the Respondent has more than one spouse, then we look at the first time any spouse is reported to receive Social Security income. SASSAGEB is derived as the age of this spouse at the starting month given at that interview.

If the Respondent is not in a couple household in any wave, and never reports a spouse receiving Social Security income, SASSAGEB and SASSAGEM are both set to SAS special missing value .U for unmarried.

The month the Respondent or spouse starts to receive Social Security income is taken from the first interview at which s/he is reported to receive it. The Respondent or spouse's age is derived from this month and the appropriate birth date. The age in months is first calculated, and the age in years is calculated as the age in months divided by 12 and rounded to 1 decimal place.

If the year when Social Security is first received is given but the month is missing, then the month used to calculate age is the month after the individual's birthday, except for those born in December, in which case December is used.

In Waves 2A and 3A, there is no specific month or year recorded if the Respondent or her/his spouse first received Social Security more than two years prior. Further, there are cases where the two-year question is also skipped. For these cases, if a start month is given at a later wave and provides a date that precedes the W2A interview, or the two years prior if the Respondent started receiving more than two years previously, then the given start month is used in deriving this variable. Otherwise, the start month and year for cases where receipt began more than two years before are set to .T. For cases where

the two-year question is missing, the start month and year are set to .M.

Social Security income measures are reported by the Financial Respondent for the household in all waves. The Financial Respondent reports the month Social Security income starts for both her/himself and her/his spouse or partner. The month when the Respondent starts receiving Social Security is that of the Financial Respondent, and the month when the spouse started is that of the Financial Respondent's spouse. If the Respondent is the spouse of the Financial Respondent, then the Financial Respondent-reported Respondent and spouse measures are swapped. That is, if the Respondent is the Financial Respondent's spouse, then the Financial Respondent-reported spouse start month is assigned as the Respondent's start month.

### Cross Wave Differences in Original HRS Data

The Financial Respondent (FinR) answers all income questions for the household. If the Financial Respondent or the Financial Respondent's spouse or partner receives Social Security income, then a question asks when it began for each individual.

In Waves 1 and 2H, the month when Social Security income was first received is asked for everyone who receives it. In Waves 2A and 3A, if the Respondent or her/his spouse started to receive Social Security more than two years ago, the questions pertaining to month and year started are skipped. Note that, since most people in the AHEAD cohort are age 70 or older at Wave 2A, the majority began receiving Social Security more than two years prior to the interview, and thus are not asked the month when it began. Furthermore, for unknown reasons in Wave 2A, the majority of cases skip the question about whether the Financial Respondent's Social Security started more than two years ago and hence also skip the question on the specific starting date. The two-year question for Financial Respondent's spouse does not appear to have this skip problem.

In Wave 3H, the month Social Security income was first received is not asked if a preloaded variable indicates that the individual reported receiving Social Security at a previous wave. If the preload indicates no report of receiving Social Security income at a previous wave, then the year when it started is asked. If the year is 1994 or later, then the month is asked. If the year is before 1994, then the month is not asked. From Wave 4 forward, the questions are structured the same as in Wave 3H, except the year cut-offs for asking month are two years prior, e.g., 1996 in Wave 4, 1998 in Wave 5, and 2000 in Wave 6.

### HRS Variables Used

```
HRS 1992:
  VR6004      N41C:SS:MO BENEFTS BGAN / Joint
  VR6013      N42B:SS:MO BENFT BGAN/ Self
  VR6014      N42B:SS:YR BENFT BGAN/ Self
AHEAD 1993:
  BP1380      J2c|3b.SS:START >2YRS AGO/Sp-P
  BP1381      J2d|3c.SS:START MONTH/Sp-P
  BP1382      J2e|3d.SS:START YEAR/Sp-P
  BR1380      J2c|3b.SS:START >2YRS AGO/Self
  BR1381      J2d|3c.SS:START MONTH/Self
  BR1382      J2e|3d.SS:START YEAR/Self
HRS 1994:
  W6261      N23e.START RECEIVING SS-
  W6262      N23e.START RECEIVING SS-
  W6269      N23h.SP-START RECEIVING
  W6270      N23h.SP-START RECEIVING
AHEAD 1995:
  DP3882      J4/7. START SS IN LAST TWO YEARS / SP-P
  DP3883      J4a/7a.MONTH START SOC SEC / SP-P
  DP3884      J4a/7a.YEAR START SOC SEC / SP-P
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DR3882 J4/7. START SS IN LAST TWO YEARS / R  
 DR3883 J4a/7a.MONTH START SOC SEC / R  
 DR3884 J4a/7a.YEAR START SOC SEC / R  
 HRS 1996:  
 EP3990 J48.R RECV SS BENEFITS START YEAR/Sp-P  
 EP3991 J49.SS BENEFITS START MONTH/Sp-P  
 ER3990 J48.R RECV SS BENEFITS START YEAR/Self  
 ER3991 J49.SS BENEFITS START MONTH/Self  
 HRS 1998:  
 FP4750 J48. SS BENEFITS START YEAR/Sp-P  
 FP4751 J49. SS BENEFITS START MONTH/Sp-P  
 FR4750 J48. SS BENEFITS START YEAR/Self  
 FR4751 J49. SS BENEFITS START MONTH/Self  
 HRS 2000:  
 GP5193 J48. SS BENEFITS START YEAR/Sp-P  
 GP5194 J49. SS BENEFITS START MONTH/Sp-P  
 GR5193 J48. SS BENEFITS START YEAR/Self  
 GR5194 J49. SS BENEFITS START MONTH/Self  
 HRS 2002:  
 HQP089 R YEAR STARTED TO RECEIVE SS BENEFITS/Sp  
 HQP090 R MONTH STARTED TO RECEIVE SS BENEFITS/S  
 HQR089 R YEAR STARTED TO RECEIVE SS BENEFITS/Se  
 HQR090 R MONTH STARTED TO RECEIVE SS BENEFITS/S  
 HRS 2004:  
 JQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 JQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 JQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 JQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 HRS 2006:  
 KQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 KQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 KQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 KQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 HRS 2008:  
 LQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 LQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 LQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 LQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 HRS 2010:  
 MQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 MQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 MQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 MQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 HRS 2012:  
 NQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 NQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 NQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 NQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 HRS 2014:  
 OQ089 R YEAR STARTED TO RECEIVE SS BENEFITS  
 OQ090 R MONTH STARTED TO RECEIVE SS BENEFITS  
 OQ095 SP YEAR STARTED TO RECEIVE SS BENEFITS  
 OQ096 SP MONTH STARTED TO RECEIVE SS BENEFITS  
 Tracker:  
 AFINR 1992 WHETHER FINANCIAL RESPONDENT  
 BFINR 1993 WHETHER FINANCIAL RESPONDENT  
 CFINR 1994 WHETHER FINANCIAL RESPONDENT  
 DFINR 1995 WHETHER FINANCIAL RESPONDENT  
 EFINR 1996 WHETHER FINANCIAL RESPONDENT

FFINR	1998	WHETHER FINANCIAL RESPONDENT
GFINR	2000	WHETHER FINANCIAL RESPONDENT
HFINR	2002	WHETHER FINANCIAL RESPONDENT
JFINR	2004	WHETHER FINANCIAL RESPONDENT
KFINR	2006	WHETHER FINANCIAL RESPONDENT
LFINR	2008	WHETHER FINANCIAL RESPONDENT
MFINR	2010	WHETHER FINANCIAL RESPONDENT
NFINR	2012	WHETHER FINANCIAL RESPONDENT
OFINR	2014	WHETHER FINANCIAL RESPONDENT

<b>SSDI, SSI Disability Episodes</b>
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Wave	Variable	Label	Type
1	RADNEPI	TOTAL NUMBER OF DISABILITY EPISODES	Categ
1	RADTYPE1	RADTYPE1:E1 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE2	RADTYPE2:E2 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE3	RADTYPE3:E3 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE4	RADTYPE4:E4 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE5	RADTYPE5:E5 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE6	RADTYPE6:E6 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE7	RADTYPE7:E7 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE8	RADTYPE8:E8 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE9	RADTYPE9:E9 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE10	RADTYPE10:E10 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADTYPE11	RADTYPE11:E11 SSDI=1, SSI=2, DK OR BOTH=3	Categ
1	RADSTAT1	RADSTAT1:E1 EPISODE STATUS	Categ
1	RADSTAT2	RADSTAT2:E2 EPISODE STATUS	Categ
1	RADSTAT3	RADSTAT3:E3 EPISODE STATUS	Categ
1	RADSTAT4	RADSTAT4:E4 EPISODE STATUS	Categ
1	RADSTAT5	RADSTAT5:E5 EPISODE STATUS	Categ
1	RADSTAT6	RADSTAT6:E6 EPISODE STATUS	Categ
1	RADSTAT7	RADSTAT7:E7 EPISODE STATUS	Categ
1	RADSTAT8	RADSTAT8:E8 EPISODE STATUS	Categ
1	RADSTAT9	RADSTAT9:E9 EPISODE STATUS	Categ
1	RADSTAT10	RADSTAT10:E10 EPISODE STATUS	Categ
1	RADSTAT11	RADSTAT11:E11 EPISODE STATUS	Categ
1	RADAPPM1	RADAPPM1:E1 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM2	RADAPPM2:E2 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM3	RADAPPM3:E3 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM4	RADAPPM4:E4 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM5	RADAPPM5:E5 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM6	RADAPPM6:E6 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM7	RADAPPM7:E7 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM8	RADAPPM8:E8 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM9	RADAPPM9:E9 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPM10	RADAPPM10:E10 MONTH APPLIED SSI/SSDI	Cont

1	RADAPPM11	RADAPPM11:E11 MONTH APPLIED SSI/SSDI	Cont
1	RADAPPY1	RADAPPY1:E1 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY2	RADAPPY2:E2 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY3	RADAPPY3:E3 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY4	RADAPPY4:E4 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY5	RADAPPY5:E5 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY6	RADAPPY6:E6 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY7	RADAPPY7:E7 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY8	RADAPPY8:E8 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY9	RADAPPY9:E9 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY10	RADAPPY10:E10 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPY11	RADAPPY11:E11 YEAR APPLIED SSI/SSDI	Cont
1	RADAPPD1	RADAPPD1:E1 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD2	RADAPPD2:E2 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD3	RADAPPD3:E3 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD4	RADAPPD4:E4 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD5	RADAPPD5:E5 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD6	RADAPPD6:E6 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD7	RADAPPD7:E7 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD8	RADAPPD8:E8 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD9	RADAPPD9:E9 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD10	RADAPPD10:E10 DATE APPLIED SSI/SSDI	Cont
1	RADAPPD11	RADAPPD11:E11 DATE APPLIED SSI/SSDI	Cont
1	RADREAM1	RADREAM1:E1 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM2	RADREAM2:E2 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM3	RADREAM3:E3 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM4	RADREAM4:E4 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM5	RADREAM5:E5 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM6	RADREAM6:E6 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM7	RADREAM7:E7 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM8	RADREAM8:E8 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM9	RADREAM9:E9 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM10	RADREAM10:E10 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAM11	RADREAM11:E11 MONTH REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY1	RADREAY1:E1 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY2	RADREAY2:E2 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont



1	RADREAY3	RADREAY3:E3 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY4	RADREAY4:E4 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY5	RADREAY5:E5 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY6	RADREAY6:E6 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY7	RADREAY7:E7 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY8	RADREAY8:E8 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY9	RADREAY9:E9 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY10	RADREAY10:E10 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAY11	RADREAY11:E11 YEAR REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD1	RADREAD1:E1 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD2	RADREAD2:E2 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD3	RADREAD3:E3 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD4	RADREAD4:E4 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD5	RADREAD5:E5 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD6	RADREAD6:E6 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD7	RADREAD7:E7 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD8	RADREAD8:E8 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD9	RADREAD9:E9 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD10	RADREAD10:E10 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADREAD11	RADREAD11:E11 DATE REAPPLIED/APPEALED SSI/SSDI	Cont
1	RADRECM1	RADRECM1:E1 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM2	RADRECM2:E2 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM3	RADRECM3:E3 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM4	RADRECM4:E4 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM5	RADRECM5:E5 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM6	RADRECM6:E6 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM7	RADRECM7:E7 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM8	RADRECM8:E8 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM9	RADRECM9:E9 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM10	RADRECM10:E10 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECM11	RADRECM11:E11 MONTH RECEIVED SSI/SSDI	Cont
1	RADRECY1	RADRECY1:E1 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY2	RADRECY2:E2 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY3	RADRECY3:E3 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY4	RADRECY4:E4 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY5	RADRECY5:E5 YEAR RECEIVED SSI/SSDI	Cont

1	RADRECY6	RADRECY6:E6 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY7	RADRECY7:E7 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY8	RADRECY8:E8 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY9	RADRECY9:E9 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY10	RADRECY10:E10 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECY11	RADRECY11:E11 YEAR RECEIVED SSI/SSDI	Cont
1	RADRECD1	RADRECD1:E1 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD2	RADRECD2:E2 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD3	RADRECD3:E3 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD4	RADRECD4:E4 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD5	RADRECD5:E5 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD6	RADRECD6:E6 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD7	RADRECD7:E7 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD8	RADRECD8:E8 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD9	RADRECD9:E9 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD10	RADRECD10:E10 DATE RECEIVED SSI/SSDI	Cont
1	RADRECD11	RADRECD11:E11 DATE RECEIVED SSI/SSDI	Cont
1	RADENDM1	RADENDM1:E1 MONTH ENDED SSI/SSDI	Cont
1	RADENDM2	RADENDM2:E2 MONTH ENDED SSI/SSDI	Cont
1	RADENDM3	RADENDM3:E3 MONTH ENDED SSI/SSDI	Cont
1	RADENDM4	RADENDM4:E4 MONTH ENDED SSI/SSDI	Cont
1	RADENDM5	RADENDM5:E5 MONTH ENDED SSI/SSDI	Cont
1	RADENDM6	RADENDM6:E6 MONTH ENDED SSI/SSDI	Cont
1	RADENDM7	RADENDM7:E7 MONTH ENDED SSI/SSDI	Cont
1	RADENDM8	RADENDM8:E8 MONTH ENDED SSI/SSDI	Cont
1	RADENDM9	RADENDM9:E9 MONTH ENDED SSI/SSDI	Cont
1	RADENDM10	RADENDM10:E10 MONTH ENDED SSI/SSDI	Cont
1	RADENDM11	RADENDM11:E11 MONTH ENDED SSI/SSDI	Cont
1	RADENDY1	RADENDY1:E1 YEAR ENDED SSI/SSDI	Cont
1	RADENDY2	RADENDY2:E2 YEAR ENDED SSI/SSDI	Cont
1	RADENDY3	RADENDY3:E3 YEAR ENDED SSI/SSDI	Cont
1	RADENDY4	RADENDY4:E4 YEAR ENDED SSI/SSDI	Cont
1	RADENDY5	RADENDY5:E5 YEAR ENDED SSI/SSDI	Cont
1	RADENDY6	RADENDY6:E6 YEAR ENDED SSI/SSDI	Cont
1	RADENDY7	RADENDY7:E7 YEAR ENDED SSI/SSDI	Cont
1	RADENDY8	RADENDY8:E8 YEAR ENDED SSI/SSDI	Cont

1	RADENDY9	RADENDY9:E9 YEAR ENDED SSI/SSDI	Cont
1	RADENDY10	RADENDY10:E10 YEAR ENDED SSI/SSDI	Cont
1	RADENDY11	RADENDY11:E11 YEAR ENDED SSI/SSDI	Cont
1	RADENDD1	RADENDD1:E1 DATE ENDED SSI/SSDI	Cont
1	RADENDD2	RADENDD2:E2 DATE ENDED SSI/SSDI	Cont
1	RADENDD3	RADENDD3:E3 DATE ENDED SSI/SSDI	Cont
1	RADENDD4	RADENDD4:E4 DATE ENDED SSI/SSDI	Cont
1	RADENDD5	RADENDD5:E5 DATE ENDED SSI/SSDI	Cont
1	RADENDD6	RADENDD6:E6 DATE ENDED SSI/SSDI	Cont
1	RADENDD7	RADENDD7:E7 DATE ENDED SSI/SSDI	Cont
1	RADENDD8	RADENDD8:E8 DATE ENDED SSI/SSDI	Cont
1	RADENDD9	RADENDD9:E9 DATE ENDED SSI/SSDI	Cont
1	RADENDD10	RADENDD10:E10 DATE ENDED SSI/SSDI	Cont
1	RADENDD11	RADENDD11:E11 DATE ENDED SSI/SSDI	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RADNEPI	37495	0.23	0.62	0.0	11.0
RADTYPE1	5976	2.53	3.43	1.0	21.0
RADTYPE2	2039	3.77	5.04	1.0	23.0
RADTYPE3	477	5.17	6.97	1.0	23.0
RADTYPE4	152	3.06	4.57	1.0	23.0
RADTYPE5	42	2.33	3.75	1.0	23.0
RADTYPE6	17	1.71	0.47	1.0	2.0
RADTYPE7	7	4.57	8.14	1.0	23.0
RADTYPE8	3	1.67	0.58	1.0	2.0
RADTYPE9	2	1.50	0.71	1.0	2.0
RADTYPE10	2	7.00	7.07	2.0	12.0
RADTYPE11	1	2.00	.	2.0	2.0
RADSTAT1	5976	11.37	22.90	1.0	94.0
RADSTAT2	2039	18.71	32.31	1.0	94.0
RADSTAT3	477	17.44	32.12	1.0	94.0

RADSTAT4	152	13.76	28.51	1.0	94.0
RADSTAT5	42	14.24	28.86	1.0	94.0
RADSTAT6	17	14.88	29.85	1.0	94.0
RADSTAT7	7	3.43	2.37	1.0	6.0
RADSTAT8	3	4.33	2.89	1.0	6.0
RADSTAT9	2	3.50	3.54	1.0	6.0
RADSTAT10	2	2.50	2.12	1.0	4.0
RADSTAT11	1	91.00	.	91.0	91.0
RADAPPM1	3553	5.86	3.49	1.0	12.0
RADAPPM2	1080	5.83	3.45	1.0	12.0
RADAPPM3	265	6.06	3.52	1.0	12.0
RADAPPM4	70	6.00	3.35	1.0	12.0
RADAPPM5	21	6.38	3.53	1.0	12.0
RADAPPM6	10	7.40	3.44	1.0	12.0
RADAPPM7	3	3.00	2.00	1.0	5.0
RADAPPM8	1	4.00	.	4.0	4.0
RADAPPM9	1	4.00	.	4.0	4.0
RADAPPM10	2	8.00	0.00	8.0	8.0
RADAPPM11	1	8.00	.	8.0	8.0
RADAPPY1	5597	1995.17	11.05	1940.0	2014.0
RADAPPY2	1848	1999.22	9.04	1957.0	2014.0
RADAPPY3	426	2000.55	8.47	1968.0	2014.0
RADAPPY4	132	2002.98	7.65	1978.0	2014.0
RADAPPY5	37	2003.57	8.03	1982.0	2014.0
RADAPPY6	15	2003.07	8.35	1989.0	2014.0
RADAPPY7	7	2000.86	4.78	1995.0	2008.0
RADAPPY8	2	2006.00	1.41	2005.0	2007.0
RADAPPY9	2	2002.00	7.07	1997.0	2007.0
RADAPPY10	2	2009.50	0.71	2009.0	2010.0

RADAPPY11	1	2009.00	.	2009.0	2009.0
RADAPPD1	5976	12861.96	4181.56	-7415.0	20073.0
RADAPPD2	2039	14392.62	3442.45	-3357.0	20036.0
RADAPPD3	477	14971.26	3122.49	220.0	19920.0
RADAPPD4	152	15883.58	2834.74	6741.0	19859.0
RADAPPD5	42	16102.76	2778.88	8225.0	19859.0
RADAPPD6	17	15926.59	2883.79	10782.0	19829.0
RADAPPD7	7	15063.71	1712.08	12973.0	17607.0
RADAPPD8	3	16679.00	568.36	16139.0	17272.0
RADAPPD9	2	15488.00	2522.96	13704.0	17272.0
RADAPPD10	2	18304.00	263.04	18118.0	18490.0
RADAPPD11	1	18125.00	.	18125.0	18125.0
RADREAM1	890	5.80	3.28	1.0	12.0
RADREAM2	223	5.48	3.34	1.0	12.0
RADREAM3	51	5.24	3.35	1.0	12.0
RADREAM4	16	5.19	3.76	1.0	12.0
RADREAM5	3	7.33	4.04	5.0	12.0
RADREAM6	4	3.00	0.82	2.0	4.0
RADREAM7	1	2.00	.	2.0	2.0
RADREAM8	1	7.00	.	7.0	7.0
RADREAM9	1	7.00	.	7.0	7.0
RADREAY1	1432	1996.40	9.65	1958.0	2014.0
RADREAY2	368	2001.20	8.28	1968.0	2014.0
RADREAY3	77	2002.91	8.14	1977.0	2014.0
RADREAY4	23	2006.87	6.32	1990.0	2014.0
RADREAY5	5	2010.20	2.77	2007.0	2013.0
RADREAY6	5	2006.00	8.80	1992.0	2014.0
RADREAY7	2	2001.00	4.24	1998.0	2004.0
RADREAY8	1	2007.00	.	2007.0	2007.0
RADREAY9	1	2007.00	.	2007.0	2007.0

RADREAD1	1434	13154.79	3464.63	-715.0	20012.0
RADREAD2	354	14940.10	3031.28	3068.0	20043.0
RADREAD3	67	15325.25	3007.16	6399.0	19859.0
RADREAD4	21	17132.48	2385.64	11147.0	19769.0
RADREAD5	6	18529.33	939.53	17302.0	19708.0
RADREAD6	4	16894.50	3671.50	11834.0	19769.0
RADREAD7	2	15092.50	1447.45	14069.0	16116.0
RADREAD8	1	17363.00	.	17363.0	17363.0
RADREAD9	1	17363.00	.	17363.0	17363.0
RADRECM1	2254	6.11	3.50	1.0	12.0
RADRECM2	515	5.95	3.70	1.0	12.0
RADRECM3	130	6.10	3.67	1.0	12.0
RADRECM4	27	6.30	3.78	1.0	12.0
RADRECM5	6	7.67	3.14	3.0	12.0
RADRECM6	3	8.00	2.00	6.0	10.0
RADRECM7	2	8.00	2.83	6.0	10.0
RADRECM10	1	8.00	.	8.0	8.0
RADRECY1	3217	1994.52	11.33	1940.0	2014.0
RADRECY2	857	1998.41	9.34	1958.0	2014.0
RADRECY3	174	1999.89	8.31	1971.0	2014.0
RADRECY4	41	2003.41	8.17	1975.0	2014.0
RADRECY5	8	2002.50	13.27	1975.0	2014.0
RADRECY6	4	2001.25	9.29	1992.0	2013.0
RADRECY7	2	2002.00	8.49	1996.0	2008.0
RADRECY10	1	2009.00	.	2009.0	2009.0
RADRECD1	3917	13127.24	4074.12	-7028.0	20050.0
RADRECD2	1060	14329.89	3277.85	-656.0	20050.0
RADRECD3	217	14813.90	2883.61	4033.0	19920.0
RADRECD4	47	16062.79	2855.26	5668.0	19874.0

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RADRECD5	12	16620.17	4135.59	5668.0	19828.0
RADRECD6	5	16198.20	3558.33	11878.0	19843.0
RADRECD7	2	15568.50	3012.98	13438.0	17699.0
RADRECD10	1	18133.00	.	18133.0	18133.0
RADENDM1	532	6.02	3.52	1.0	12.0
RADENDM2	146	6.30	3.55	1.0	12.0
RADENDM3	31	6.97	3.62	1.0	12.0
RADENDM4	6	5.50	4.76	1.0	12.0
RADENDY1	625	1996.50	10.44	1918.0	2014.0
RADENDY2	208	2002.73	7.34	1973.0	2014.0
RADENDY3	37	2005.05	5.83	1992.0	2014.0
RADENDY4	7	2007.14	4.67	2000.0	2012.0
RADENDY5	1	2004.00	.	2004.0	2004.0
RADENDD1	924	13982.98	3723.69	-15113.0	19951.0
RADENDD2	267	15796.79	2500.57	5026.0	19904.0
RADENDD3	51	16406.16	2057.66	11878.0	19859.0
RADENDD4	10	16712.60	1914.56	13597.0	19313.0
RADENDD5	3	16764.33	2201.58	14800.0	19144.0
RADENDD7	1	15013.00	.	15013.0	15013.0

## Categorical Variable Codes

Value	RADNEPI
0	31519
1	3937
2	1562
3	325
4	110
5	25
6	10
7	4
8	1
10	1
11	1

Value	RADTYPE1
1.SSDI	3162
2.SSI	393
3.SSDI and/or SSI-DK which	2129
12.Applied SSDI => SSI	148
21.Applied SSI => SSDI	144

Value	RADTYPE2
1.SSDI	448
2.SSI	986
3.SSDI and/or SSI-DK which	338
12.Applied SSDI => SSI	35
13.Applied SSDI => Both	141
21.Applied SSI => SSDI	42
23.Applied SSI => Both	49

Value	RADTYPE3
1.SSDI	186
2.SSI	140
3.SSDI and/or SSI-DK which	41
12.Applied SSDI => SSI	6
13.Applied SSDI => Both	58
21.Applied SSI => SSDI	3
23.Applied SSI => Both	43



Value	RADTYPE4
1.SSDI	48
2.SSI	84
3.SSDI and/or SSI-DK which	6
12.Applied SSDI => SSI	1
13.Applied SSDI => Both	8
23.Applied SSI => Both	5

Value	RADTYPE5
1.SSDI	18
2.SSI	22
13.Applied SSDI => Both	1
23.Applied SSI => Both	1

Value	RADTYPE6
1.SSDI	5
2.SSI	12

Value	RADTYPE7
1.SSDI	3
2.SSI	3
23.Applied SSI => Both	1

Value	RADTYPE8
1.SSDI	1
2.SSI	2

Value	RADTYPE9
1.SSDI	1
2.SSI	1

Value	RADTYPE10
2.SSI	1
12.Applied SSDI => SSI	1

Value	RADTYPE11
2.SSI	1

Value	RADSTAT1
1.Applied	423
2.Reapplied/Appealed	50
4.Receiving Benefits	2673
5.Stopped receiving benefit	907
6.Not Awarded Benefits	1236
7.Rejected	181
61.Stop recv from apply	6
62.Stop recv from appeal	1
66.Stop recv from not award	18
74.Receives then denies	145
91.Beg new/no end prv apply	126
92.Beg new/no end prv appea	30
94.Beg new/no end prv recv	180

Value	RADSTAT2
1.Applied	327
2.Reapplied/Appealed	20
4.Receiving Benefits	617
5.Stopped receiving benefit	251
6.Not Awarded Benefits	312
7.Rejected	166
61.Stop recv from apply	9
62.Stop recv from appeal	2
66.Stop recv from not award	12
74.Receives then denies	19
91.Beg new/no end prv apply	134
92.Beg new/no end prv appea	11
94.Beg new/no end prv recv	159

Value	RADSTAT3
1.Applied	129
2.Reapplied/Appealed	3
4.Receiving Benefits	127
5.Stopped receiving benefit	51
6.Not Awarded Benefits	86
7.Rejected	6
74.Receives then denies	4
91.Beg new/no end prv apply	35
92.Beg new/no end prv appea	1
94.Beg new/no end prv recv	35

Value	RADSTAT4
1.Applied	52
2.Reapplied/Appealed	5
4.Receiving Benefits	31
5.Stopped receiving benefit	10
6.Not Awarded Benefits	35
7.Rejected	1
74.Receives then denies	1
91.Beg new/no end prv apply	10
92.Beg new/no end prv appea	2
94.Beg new/no end prv recv	5

Value	RADSTAT5
1.Applied	12
2.Reapplied/Appealed	1
4.Receiving Benefits	8
5.Stopped receiving benefit	3
6.Not Awarded Benefits	12
7.Rejected	1
91.Beg new/no end prv apply	4
94.Beg new/no end prv recv	1

Value	RADSTAT6
1.Applied	4
4.Receiving Benefits	3
6.Not Awarded Benefits	7
7.Rejected	1
94.Beg new/no end prv recv	2

Value		RADSTAT7
1.Applied		3
4.Receiving Benefits		1
5.Stopped receiving benefit		1
6.Not Awarded Benefits		2

Value		RADSTAT8
1.Applied		1
6.Not Awarded Benefits		2

Value		RADSTAT9
1.Applied		1
6.Not Awarded Benefits		1

Value		RADSTAT10
1.Applied		1
4.Receiving Benefits		1

Value		RADSTAT11
91.Beg new/no end prv apply		1

## How Constructed

These variables present information about multiple Social Security Disability Insurance (SSDI) and Supplemental Security Income (SSI) disability applications and receipt from all waves of data. A person may apply for SSDI or SSI (or both) multiple times. Each application process is considered a new episode. RADNEPI counts the total number of disability episodes. The other episode variables have suffixes indicating to which episode the information applies. For example, RADSTAT2 gives the status of episode two or the second application seen in the data, and RADAPPY2 gives the year that application was made.

RADTYPE<sub>n</sub> indicates whether episode "n" involves SSDI or SSI. If the program type is ambiguous, RADTYPE<sub>n</sub> is given a value of 3, "SSDI and/or SSI-DK which." In these cases, it may be that the episode involves either or both programs. Before Wave 5, questions about SSDI and SSI are combined. From Wave 5 forward, the programs are treated separately. If an episode is active at Wave 5 or beyond, the type of application may be determined. However, after Wave 5, there may be inconsistencies in the program from which the Respondent receives benefits. For instance, the Respondent may report receiving benefits from SSDI in Wave 5, then in Wave 6 report that s/he continues to receive benefits, but from SSI. In these cases, RADTYPE<sub>n</sub> is set to indicate the ambiguity.

RADSTAT<sub>n</sub> indicates the status of episode "n," and expected statuses are: applied, re-applied or appealed, not awarded, receiving, and stopped receiving. Normally, the status of an episode will be receiving, stopped receiving, or not awarded. If the status is applied or re-applied/appealed, the Respondent has not yet reported whether the benefits will be awarded. An episode is considered active if the status is any status except "stopped receiving."

Because of the ambiguity of the question in early waves, a status of "not awarded" does not necessarily mean that the application has been rejected. Information in subsequent waves may inform this status. If a Respondent denies receiving

benefits in the current wave and had not reported receiving benefits in the previous wave, we assume the application was rejected (RADSTATn=7). Similarly if the Respondent states s/he does not receive benefits but had not previously reported being awarded them, it is assumed that the application was rejected, but with a different status, as there is the possibility benefits were received for a short time (RADSTATn=61, 62, 66). If a Respondent denies receiving benefits, and had previously reported that benefits had stopped, the denial confirms the prior situation and the status remains as is. However, if the stop is reported without having ever reported receiving, it is assumed that the application was rejected, i.e., that benefits were never received.

In some cases an episode is unresolved, e.g., there is an active episode, but the thread is dropped. That is, either no information about whether the Respondent is still receiving benefits is given and a new application is begun, or a Respondent indicates having active episodes for both programs, but at the next wave indicates only one. These episodes are given an illogical ending status that indicates what the status was when the thread was dropped (RADSTATn=91, 92, 94).

In some cases it is possible that the appropriate follow-up questions at the next interview are not asked, and the episode is thus left somewhat in limbo. These episodes may appear as still active since no further activity is observed. In particular, it is likely that most episodes with a "not awarded" status are rejected applications.

Dates of application, appeal or re-application, receipt, and end of benefits are provided as month and year, and as SAS dates. The month and year variables are set to the values as reported in the raw data, with missing codes recoded to SAS special missings (.D, .R, .M). The SAS date reflects the given month, if not missing, but is logically imputed if the month or year is missing. As the data are processed, lower and upper bounds for the period when an event may have occurred are kept. For example, if the receive month is missing, but an application month is not, the lower bound would be the application month and the upper bound the interview date. The SAS date is the midpoint between the lower and upper bounds.

In some cases the specific months given indicate an illogical order of events, e.g., an application after the benefits begin. We do not attempt to "correct" these illogical sequences. There are about 150 of these among all episodes.

RADAPPMn and RADAPPYn are the month and year of application for episode "n." RADAPPDn is the imputed SAS date for the application. RADREAMn and RADREAYn are the month and year of appeal or re-application for episode "n." RADREADn is the imputed SAS date for the appeal or re-application. RADRECMn and RADRECYn are the month and year when benefits begin for episode "n." RADRECDn is the imputed SAS date for first receipt of benefits. RADENDMn and RADENDYn are the month and year when benefits stop for episode "n." RADENDDDn is the imputed SAS date for when benefits stop.

Spouse variables are not included. There are many variables, and data are rarely populated for both members of a household. We also do not include the lower and upper bound variables. If you have a need for spouse versions of these variables, or for the lower and upper bound dates, please contact us.

See the introduction section "Social Security and SSI Disability Episodes" for further descriptions of how these variables are derived.

### **Cross Wave Differences in Original HRS Data**

The Disability section of the HRS asks questions about whether the Respondent has applied for disability benefits from Social Security Disability Insurance (SSDI) or Supplemental Security Income (SSI) in every wave. Before Wave 5, the questions ask about the two programs together. From Wave 5 forward, the questions ask about the programs separately.

The general sequence of questions asks whether the Respondent has applied for SSDI/SSI, and if so, when s/he first applied and whether the application was approved. If the application was not approved, questions ask if the Respondent

appealed or re-applied, and if so, when and whether this was approved. If either the initial or re-application was approved, questions ask when the Respondent started receiving benefits, whether s/he is still receiving benefits, and if not, when the benefits stopped. Dates are collected as month and year. There are variations on this sequence over time, and the sequence can occur across interviews. For example, a Respondent could apply between Waves 2 and 3, be approved and begin receiving benefits between Waves 3 and 4, and stop receiving benefits between Waves 5 and 6.

In Waves 2A and 3A, questions about disability benefits were not asked due to the older ages of the AHEAD entry cohort. In other waves, there are variations on the general sequence of questions.

In Wave 1, the question asks if the Respondent has ever applied for SSDI or SSI. In Waves 2H, 3H and 4, it asks if the Respondent has applied for disability benefits from any government program since the last interview (or ever if it is the first interview) and if yes, asks which programs with SSDI and SSI presented as one choice. In Wave 5, the wording is the same but applications to SSDI and SSI are separate choices. Beginning in Wave 6, SSDI and SSI are presented as one choice but if indicated, a follow-up question asks which program. From Wave 5 forward, a Respondent may report applying to one or the other or both.

If the Respondent applied, the first month of application is asked. From Wave 2 forward, if that month is before the prior interview, the Respondent is asked for the first month of application since the last interview. If no application was made since the last interview, the rest of the sequence of questions is skipped.

If the Respondent has applied or re-applied for SSDI/SSI, a question asks about the status of the application. In Waves 1, 2, and 3H, the wording of this question is, "Were you awarded benefits then?" From Wave 4 forward, the wording is more specific for new applications: "Was your application accepted, rejected, or is it still being considered?" For those who had applied in a prior wave but had not heard, the question first states that according to the records, the Respondent had applied. It then asks, "Was your [SSDI/SSI] application approved?"

Those who apply for SSDI/SSI at one wave and are still receiving benefits can be asked questions at the subsequent interview. In Waves 2H and 3H, it appears that everyone who applied for SSDI/SSI at the previous interview is asked if they are still receiving benefits, whether or not they were awarded at that earlier time. From Wave 4 forward, questions on whether the Respondent is still receiving benefits are asked only of those who have a preload value indicating that they were receiving benefits at the previous interview. From Wave 3H forward, the Respondent may deny receiving benefits at the previous interview.

From Wave 5 forward, if preload values indicate that the Respondent was receiving benefits at the prior interview, the type of program is collected, and then questions ask if the Respondent is still receiving benefits. In Wave 5 only, the month first received is also collected regardless of whether the Respondent is still receiving benefits or not. Beginning in Wave 7, the type of program also includes SSDI benefits that have converted to Social Security, and the survey asks the month and year the SSDI benefits stopped.

Beginning in Wave 3H, someone who applies for SSDI/SSI may indicate that s/he hadn't yet heard whether benefits will be awarded. Beginning in Wave 4 for those with a preload indicating this situation, questions are included which ask whether the pending application was approved. However, in Wave 4, these questions were inadvertently skipped for all cases. From Wave 5 forward, the Respondent is first asked which program, SSDI or SSI, and then is asked about each program separately. The question sequence asks if the application was approved and then continues in the usual way.

Note that someone continuing to receive benefits may also report a new application.

**HRS Variables Used**

HRS 1992:  
 V2713 F1d:MO BECAME DISABLED  
 V2714 F1d:YR BECAME DISABLED  
 V4127 J23:NONE:1ST BOTHERED-MO  
 V4128 J23:NONE:1ST BOTHERED-YR  
 V4129 J24:NONE:1ST INTERFER-MO  
 V4130 J24:NONE:1ST INTERFER-YR  
 V4131 J25:NONE:PREVENTD WRK-MO  
 V4132 J25:NONE:PREVENTD WRK-YR  
 V4706 J123:EVR APPLD DISAB BEN  
 V4707 J123A:MO 1ST APPLIED  
 V4708 J123A:YR 1ST APPLIED  
 V4709 J123B:AWARDED BENEFITS  
 V4710 J123C:APPEAL/APPLY AGAIN  
 V4711 J123D:MO LST APPLIED  
 V4712 J123D:YR LAST APPLIED  
 V4713 J123E:AWARDED BENEFITS  
 V4714 J123F:MO STRTD RECV BEN  
 V4715 J123F:YR STRTD RECV BEN  
 V4719 J123J:STLL RECVNG BENFTS  
 V4720 J123K:MO BENFST STOPED  
 V4721 J123K:YR BENEFITS STOPED  
  
 HRS 1994:  
 W3312 FA1f.DISABLED-MONTH  
 W3313 FA1f.DISABLED-YEAR  
 W5220 J3.IMPAIRMENT FIRST BEGI  
 W5221 J3a.IMPAIRMENT FIRST BEG  
 W5222 J4.INTERFERE W/ WORK-MON  
 W5223 J4a.INTERFERE W/ WORK-YE  
 W5224 J6.PREVENT WORK-MONTH  
 W5225 J6a.PREVENT WORK-YEAR  
 W5259 J18.STILL RECEIVING SSD/  
 W5260 J18a.SSD/SSI STOP-MONTH  
 W5261 J18b.SSD/SSI STOP-YEAR  
 W5268 J23.APPLY FOR OTHER DISA  
 W5269 J24.DISABILITY PROGRAM  
 W5270 J24.DISABILITY PROGRAM  
 W5271 J24.DISABILITY PROGRAM  
 W5274 J26a.SSD/SSI APPLY-MONTH  
 W5275 J26a1.SSD/SSI APPLY-YEAR  
 W5276 J26a2.FIRST APPLY-MONTH  
 W5277 J26a3.FIRST APPLY-YEAR  
 W5278 J26b.AWARDED SSD/SSI THE  
 W5279 J26c.APPEAL/APPLY LATER  
 W5280 J26d.SSD/SSI LAST APPLY-  
 W5281 J26d1.SSD/SSI LAST APPLY  
 W5282 J26e.AWARDED SSD/SSI THEN  
 W5283 J26f.SSD/SSI START RECEI  
 W5284 J26f1.SSD/SSI START RECE  
 W5288 J26j.SSD/SSI STILL RECEI  
 W5289 J26k.SSD/SSI STOP-MONTH  
 W5290 J26k1.SSD/SSI STOP-YEAR  
  
 HRS 1996:  
 E2619 G1F.DISABLED-MONTH  
 E2620 G1G.DISABLED-YEAR  
 E3523 GD3. FIRST BEGIN-YR  
 E3524 GD3A. FIRST BEGIN-MONTH  
 E3526 GD4.INTERFERE-YR

E3527	GD4A. INTERFERE-MONTH
E3528	GD6. PREVENT WORK-YR
E3529	GD6A. PREVENT WORK-MONTH
E3580	GD18. RECEIVE SSD/SSI
E3581	GD18A. SS STOP-MONTH
E3582	GD18B. SS STOP-YR
E3589	GD23. APPLY OTHER DISABILITY
E3595M1	GD24. DISABILITY PROGRAMS
E3595M2	GD24. DISABILITY PROGRAMS
E3595M3	GD24. DISABILITY PROGRAMS
E3596	GD26A. SS APPLY-MONTH
E3597	GD26A1. SS APPLY-YR
E3598	GD26A2. CHECK MONTH
E3599	GD26A3. CHECK YR
E3600	GD26B. SS-AWARD THEN
E3601	GD26C. SS-APPLY AGAIN
E3602	GD26D. SS-LAST APPLY MONTH
E3603	GD26D1. SS-LAST APPLY YR
E3604	GD26E. SS-AWARD THEN
E3605	GD26F. SS RECEIVE-MONTH
E3606	GD26F1. SS RECEIVE-YR
E3614	GD26J. SS-STILL RECEIVING
E3615	GD26K. SS STOP-MONTH
E3616	GD26K1. SS STOP-YR
HRS 1998:	
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F4033	GD3. FIRST BEGIN-YR
F4034	GD3A. FIRST BEGIN-MONTH
F4036	GD4.INTERFERE-YR
F4037	GD4A. INTERFERE-MONTH
F4038	GD6. PREVENT WORK-YR
F4039	GD6A. PREVENT WORK-MONTH
F4088	GD18. RECEIVE SSD/SSI
F4089	GD18A. SS STOP-MONTH
F4090	GD18B. SS STOP-YR
F4091	GD18C.PRIOR WAVE APPLIED FOR SSDI/SSI
F4092	GD18D. MONTH START RECEIVING BENEFITS
F4093	GD18D.1.YEAR START RECEIVING BENEFITS
F4097	GD18G.STILL RECEIVING BENEFITS
F4098	GD18H. MONTH STOPPED RECEIVING BENEFITS
F4099	GD18H.1.YEAR STOPPED RECEIVING BENEFITS
F4123	GD23. APPLY OTHER DISABILITY
F4124M1	GD24. DISABILITY PROGRAMS
F4124M2	GD24. DISABILITY PROGRAMS
F4124M3	GD24. DISABILITY PROGRAMS
F4125	GD26A. SS APPLY-MONTH
F4126	GD26A1. SS APPLY-YR
F4127	GD26A2. CHECK MONTH
F4128	GD26A3. CHECK YR
F4129	GD26B. SS-AWARD THEN
F4130	GD26C. SS-APPLY AGAIN
F4131	GD26D. SS-LAST APPLY MONTH
F4132	GD26D1. SS-LAST APPLY YR
F4133	GD26E. SSI-AWARD THEN
F4134	GD26F. SS RECEIVE-MONTH
F4135	GD26F1. SS RECEIVE-YR
F4139	GD26J. SS-STILL RECEIVING
F4140	GD26K. SS STOP-MONTH



F4141	GD26K1. SS STOP-YR
F4489	GJ123.EVER APPLY FOR SSD OR SSI
F4490	GJ123A.FIRST APPLIED SS - MONTH
F4491	GJ123A1.FIRST APPLIED SS - YEAR
F4492	GJ123B.SS AWARDED BENEFITS
F4493	GJ123C.SS APPEALED OR APPLY AGAIN
F4494	GJ123D.SS APPEALED - MONTH
F4495	GJ123D1.SS APPEALED - YEAR
F4496	GJ123E.SS AWARDED THEN
F4497	GJ123F.SS AWARDED - MONTH
F4498	GJ123F1.SS AWARDED - YEAR
F4502	GJ123J.STILL RECEIVING BENEFITS
F4503	GJ123K.BENEFITS STOPPED - MONTH
F4504	GJ123K1.BENEFITS STOPPED - YEAR
HRS 2000:	
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G4321	GD3. FIRST BEGIN-YR
G4322	GD3A. FIRST BEGIN-MONTH
G4324	GD4.INTERFERE-YR
G4325	GD4A. INTERFERE-MONTH
G4326	GD6. PREVENT WORK-YR
G4327	GD6A. PREVENT WORK-MONTH
G4373	GD18. RECEIVE SSD/SSI
G4374	GD18AA. REC`D SSDI BENEFITS
G4377	GD18AC. SSDI START-MONTH
G4378	GD18AD. SSDI START-YEAR
G4381	GD18AE. SSDI STOP-MONTH
G4382	GD18AF. SSDI STOP-YR
G4383	GD18BA. REC`D SSI BENEFITS
G4385	GD18BC. SSI START-MONTH
G4386	GD18BD. SSI START-YEAR
G4387	GD18BE. SSI STOP-MONTH
G4388	GD18BF. SSI STOP-YR
G4389	GD18C.PRIOR WAVE APPLIED FOR SSDI/SSI
G4390	GD18CA. SSDI APPLICATION APPROVED
G4391	GD18CB. SSDI START-MONTH
G4392	GD18CC. SSDI START-YEAR
G4396	GD18CG.STILL RECEIVING SSDI BENEFITS
G4398	GD18CJ. SSDI STOP-MONTH
G4399	GD18CK. SSDI STOP-YR
G4400	GD18DA. SSDI-APPLY AGAIN
G4401	GD18DB. SSDI-LAST APPLY MONTH
G4402	GD18DC. SSDI-LAST APPLY YR
G4403	GD18DD. SSDI-AWARD THEN
G4404	GD18DE. SSDI START-MONTH
G4405	GD18DF. SSDI START-YEAR
G4409	GD18DK.STILL RECEIVING SSDI BENEFITS
G4411	GD18DN. SSDI STOP-MONTH
G4412	GD18DP. SSDI STOP-YR
G4413	GD18EA. SSI APPLICATION APPROVED
G4414	GD18EB. SSI START-MONTH
G4415	GD18EC. SSI START-YEAR
G4416	GD18ED.STILL RECEIVING SSI BENEFITS
G4418	GD18EF. SSI STOP-MONTH
G4419	GD18EG. SSI STOP-YR
G4420	GD18EH. SSI-APPLY AGAIN
G4421	GD18EJ. SSI-LAST APPLY MONTH
G4422	GD18EK. SSI-LAST APPLY YR

G4423	GD18EM. SSI-AWARD THEN
G4424	GD18EN. SSI START-MONTH
G4425	GD18EP. SSI START-YEAR
G4426	GD18EQ.STILL RECEIVING SSI BENEFITS
G4428	GD18ES. SSI STOP-MONTH
G4429	GD18ET. SSI STOP-YR
G4453	GD23. APPLY OTHER DISABILITY
G4454M1	GD24. DISABILITY PROGRAMS
G4454M2	GD24. DISABILITY PROGRAMS
G4454M3	GD24. DISABILITY PROGRAMS
G4455	GD26A.SSD APPLY-MO
G4456	GD26A1. SSD APPLY-YR
G4457	GD26A2.SSD APPLY SINCE PREV WAVE-MO
G4458	GD26A3.SSD APPL SINCE PREV WAVE-YR
G4459	GD26B.SSD 1ST APPL STATUS
G4460	GD26C.SSD WHETHER APPLIED AGAIN
G4461	GD26D.SSD LAST APPLICATION-MO
G4462	GD26D1.SSD LAST APPLICATION-YR
G4463	GD26E.SSD LAST APPLICATION STATUS
G4464	GD26F.SSD LAST APP BENEFITS START-MO
G4465	GD26F1.SSD LAST APP BENEFITS START-YR
G4466	GD26G.SSD-STILL RECEIVING
G4471	GD26M.SSD BENEFITS STOP-MO
G4472	GD26M1.SSD BENEFITS STOP-YR
G4473	GD27A. SSI APPLY-MONTH
G4474	GD27A1. SSI APPLY-YR
G4475	GD27A2. SSI APPLY SINCE PREV WAVE-MO
G4476	GD27A3. SSI APPLY SINCE PREV WAVE-YR
G4477	GD27B. SSI-AWARD THEN
G4478	GD27C. SSI-APPLY AGAIN
G4479	GD27D. SSI-LAST APPLY MONTH
G4480	GD27D1. SSI-LAST APPLY YR
G4481	GD27E. SSI-AWARD THEN
G4482	GD27F. SSI RECEIVE-MONTH
G4483	GD27F1. SSI RECEIVE-YR
G4484	GD27G. SSI-STILL RECEIVING
G4489	GD27J. SSI STOP-MONTH
G4490	GD27J1. SSI STOP-YR
G4862	GJ123.EVER APPLY FOR SSDI
G4863	GJ123A.FIRST APPLIED SSDI - YEAR
G4864	GJ123A2.FIRST APPLIED SSDI - MONTH
G4865	GJ123B.SSDI AWARDED BENEFITS
G4866	GJ123C.SSDI APPEALED OR APPLY AGAIN
G4867	GJ123D.SSDI APPEALED - YR
G4868	GJ123D2.SSDI APPEALED - MO
G4869	GJ123E.SSDI AWARDED THEN
G4870	GJ123F1.SSDI AWARDED - YEAR
G4871	GJ123F2.SSDI AWARDED - MONTH
G4875	GJ123J.STILL RECEIVING BENEFITS
G4877	GJ123K.BENEFITS STOPPED - YEAR
G4878	GJ123K2.BENEFITS STOPPED - MONTH
G4881	GJ125.EVER APPLY FOR SSI
G4882	GJ125A1.FIRST APPLIED SSI - YEAR
G4883	GJ125A2.FIRST APPLIED SSI - MONTH
G4884	GJ125B.SSI AWARDED BENEFITS
G4885	GJ125C.SSI APPEALED OR APPLY AGAIN
G4886	GJ125D1.SSI APPEALED - YR
G4887	GJ125D2.SSI APPEALED - MO
G4888	GJ125E.SSI AWARDED THEN

G4889	GJ125F1.SSI AWARDED - YEAR
G4890	GJ125F2.SSI AWARDED - MONTH
G4894	GJ125G.STILL RECEIVING BENEFITS
G4896	GJ125J.BENEFITS STOPPED - YEAR
G4897	GJ125K.BENEFITS STOPPED - MONTH
HRS 2002:	
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
HM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
HM014	HM014 HEALTH PROB INTERFERE-YR
HM015	HM015 HEALTH PROB INTERFERE-MO
HM016	HM016 HEALTH PROB PREVENT WRK-YR
HM017	HM017 HEALTH PROB PREVENT WRK-MO
HM030	HM030 REC SSDI/SSI/BOTH
HM030F1	HM030F1 STILL RECEIVING SSDI BENEFITS
HM030F2	HM030F2 STILL RECEIVING SSI BENEFITS
HM030K1	HM030K1 SSDI STOP-MO
HM030K2	HM030K2 SSI STOP-MO
HM030L1	HM030L1 SSDI STOP-YR
HM030L2	HM030L2 SSI STOP-YR
HM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
HM032	HM032 SSDI APPLICATION APPROVED
HM032A1	HM032A1 SSDI START-MO
HM032A2	HM032A2 SSDI START-MO
HM032B1	HM032B1 SSDI START-YR
HM032B2	HM032B2 SSDI START-YR
HM032F1	HM032F1 STILL RECEIVING SSDI BENEFITS
HM032F2	HM032F2 STILL RECEIVING SSDI BENEFITS
HM032K1	HM032K1 SSDI STOP-MO
HM032K2	HM032K2 SSDI STOP-MO
HM032L1	HM032L1 SSDI STOP-YR
HM032L2	HM032L2 SSDI STOP-YR
HM032N	HM032N SSDI-APPLY AGAIN
HM032O	HM032O SSDI-LAST APPLY MO
HM032P	HM032P SSDI-LAST APPLY YR
HM032Q	HM032Q SSDI-AWARD THEN
HM033	HM033 SSI APPLICATION APPROVED
HM033A2	HM033A2 SSI START-MO
HM033B2	HM033B2 SSI START-YR
HM033C1	HM033C1 STILL RECEIVING SSI BENEFITS
HM033C2	HM033C2 STILL RECEIVING SSI BENEFITS
HM033H1	HM033H1 SSI STOP-MO
HM033H2	HM033H2 SSI STOP-MO
HM033I1	HM033I1 SSI STOP-YR
HM033I2	HM033I2 SSI STOP-YR
HM033L	HM033L SSI-APPLY AGAIN
HM033N	HM033N SSI-LAST APPLY MO
HM033O	HM033O SSI-LAST APPLY YR
HM033P	HM033P SSI-AWARD THEN
HM036	HM036 APPLY OTR DISABILITY
HM037M1	HM037M1 DISABILITY PROGRAMS-1
HM037M2	HM037M2 DISABILITY PROGRAMS-2
HM037M3	HM037M3 DISABILITY PROGRAMS-3
HM040A	HM040A SSD APPLY-MO
HM040B	HM040B SSD APPLY-YR
HM040C	HM040C SSD APPLY SINCE PREV WAVE-MO
HM040D	HM040D SSD APPLY SINCE PREV WAVE-YR
HM040E	HM040E SSD 1ST APPL STATUS

HM040F	HM040F SSDI-APPLY AGAIN
HM040G	HM040G SSDI-LAST APPLY MO
HM040H	HM040H SSDI-LAST APPLY YR
HM040I	HM040I SSDI-AWARD THEN
HM040J	HM040J SSDI START-MO
HM040K	HM040K SSDI START-YR
HM040P	HM040P STILL RECEIVING SSDI BENEFITS
HM040U	HM040U SSDI STOP-MO
HM040V	HM040VSSDI STOP-YR
HM041	HM041 SSI-AWARD THEN
HM041A	HM041A SSD APPLY-MO
HM041B	HM041B SSD APPLY-YR
HM041C	HM041C SSD APPLY SINCE PREV WAVE-MO
HM041D	HM041D SSD APPLY SINCE PREV WAVE-YR
HM041F	HM041F SSI-APPLY AGAIN
HM041G	HM041G SSI-LAST APPLY MO
HM041H	HM041H SSI-LAST APPLY YR
HM041I	HM041I SSI-AWARD THEN
HM041J	HM041J SSI START-MO
HM041K	HM041K SSI START-YR
HM041L	HM041L STILL RECEIVING SSI BENEFITS
HM041R	HM041R SSI STOP-MO
HM041S	HM041S SSI STOP-YR
HM042H	HM042H VA-LAST APPLY YR
HM050G	HM050G OTH PROG-LAST APPLY MO
HM058	HM058 WHICH DISABILITY PROGRAM
HM645	EVER APPLY FOR SSDI
HM646	1ST APPLIED SSDI - YR
HM647	1ST APPLIED SSDI - MO
HM648	SSDI AWARDED BENEFITS
HM648A1	SSDI START MONTH-1
HM648B1	SSDI START YEAR-1
HM648F1	STILL RECEIVING SSDI BENEFITS-1
HM648K1	SSDI STOP MONTH-1
HM648L1	SSDI STOP YEAR-1
HM648N	SSDI-APPLY AGAIN
HM648O	SSDI-LAST APPLY MO
HM648P	SSDI-LAST APPLY YR
HM648Q	SSDI-AWARD THEN
HM651	EVER APPLY FOR SSI
HM652	1ST APPLIED SSI - YR
HM653	1ST APPLIED SSI - MO
HM654	SSI AWARDED BENEFITS
HM654A1	SSI START MONTH-1
HM654B1	SSI START YEAR-1
HM654C1	STILL RECEIVING SSI BENEFITS-1
HM654H1	SSI STOP MONTH-1
HM654I1	SSI STOP YEAR-1
HM654J	SSI-APPLY AGAIN
HM654K	SSI-LAST APPLY MO
HM654L	SSI-LAST APPLY YR
HM654N	SSI-AWARD THEN
HRS 2004:	
JJ014	DISABLED-MO
JJ015	DISABLED- YR
JM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
JM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
JM014	HM014 HEALTH PROB INTERFERE-YR
JM015	HM015 HEALTH PROB INTERFERE-MO

JM016	HM016 HEALTH PROB PREVENT WRK-YR
JM017	HM017 HEALTH PROB PREVENT WRK-MO
JM030	HM030 REC SSDI/SSI/BOTH
JM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
JM032	HM032 SSDI APPLICATION APPROVED
JM033	HM033 SSI APPLICATION APPROVED
JM036	HM036 APPLY OTR DISABILITY
JM037M1	HM037M1 DISABILITY PROGRAMS-1
JM037M2	HM037M2 DISABILITY PROGRAMS-2
JM037M3	HM037M3 DISABILITY PROGRAMS-3
JM040	HM040E SSD 1ST APPL STATUS
JM041	HM041 SSI-AWARD THEN
JM058	HM058 WHICH DISABILITY PROGRAM
JM645	HM645 EVER APPLY FOR SSDI
JM646	HM646 1ST APPLIED SSDI - YR
JM647	HM647 1ST APPLIED SSDI - MO
JM648	HM648 SSDI AWARDED BENEFITS
JM651	HM651 EVER APPLY FOR SSI
JM652	HM652 1ST APPLIED SSI - YR
JM653	HM653 1ST APPLIED SSI - MO
JM654	HM654 SSI AWARDED BENEFITS
JMW233C	HM032A2 SSDI START-MO -2
JMW233D	HM033A2 SSI START-MO -2
JMW233I	HM040J SSDI START-MO -3
JMW233J	SSI START-MO -3
JMW233Q	HM648A1 SSDI START MONTH-1
JMW233S	HM654A1 SSI START MONTH-1
JMW234C	HM032B2 SSDI START-YR -2
JMW234D	HM041K SSI START-YR -2
JMW234I	HM040K SSDI START-YR -3
JMW234J	SSI START-YR -3
JMW234Q	HM648B1 SSDI START YEAR-1
JMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
JMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
JMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
JMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
JMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
JMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
JMW238Q	HM648F1 STILL REC SSDI BENS-1
JMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
JMW243A	HM040U SSDI STOP-MO -1
JMW243B	HM030K2 SSI STOP-MO -1
JMW243C	HM032K1 SSDI STOP-MO -2
JMW243D	HM033H1 SSI STOP-MO -2
JMW243I	HM032K2 SSDI STOP-MO -3
JMW243J	HM041R SSI STOP-MO -3
JMW243Q	SSDI STOP MONTH-1
JMW243S	HM654H1 SSI STOP MONTH-1
JMW244A	HM030K1 SSDI STOP-YR
JMW244B	HM030L2 SSI STOP-YR -1
JMW244C	HM030L1 SSDI STOP-YR -2
JMW244D	HM033I1 SSI STOP-YR -2
JMW244I	HM032L1 SSDI STOP-YR -3
JMW244J	HM041S SSI STOP-YR -3
JMW244Q	SSDI STOP YEAR-1
JMW244S	HM654I2 SSI STOP YEAR-1
JMW245A	HM040F SSDI-APPLY AGAIN -1
JMW245B	HM041F SSI-APPLY AGAIN -1
JMW245C	HM032N SSDI-APPLY AGAIN -2

JMW245D	HM033L SSI-APPLY AGAIN -2
JMW245H	HM648N SSDI-APPLY AGAIN-1
JMW245I	HM654J SSI-APPLY AGAIN-1
JMW246A	HM040G SSDI-LAST APPLY MO -1
JMW246B	HM041G SSI-LAST APPLY MO -1
JMW246C	HM032O SSDI-LAST APPLY MO -2
JMW246D	HM033N SSI-LAST APPLY MO -2
JMW246G	HM050G OTH PROG-LAST APPLY MO -1
JMW246H	HM648O SSDI-LAST APPLY MO-1
JMW246I	HM654K SSI-LAST APPLY MO
JMW247A	HM040H SSDI-LAST APPLY YR -1
JMW247B	HM041H SSI-LAST APPLY YR -1
JMW247C	HM032P SSDI-LAST APPLY YR -2
JMW247D	HM033O SSI-LAST APPLY YR -2
JMW247E	HM042H VA-LAST APPLY YR -1
JMW247H	HM648P SSDI-LAST APPLY YR-1
JMW247I	HM654L SSI-LAST APPLY YR-1
JMW248A	HM040I SSDI-AWARD THEN -1
JMW248B	HM041I SSI-AWARD THEN -1
JMW248C	HM032Q SSDI-AWARD THEN -2
JMW248D	HM033P SSI-AWARD THEN -2
JMW248H	HM648Q SSDI-AWARD THEN-1
JMW248I	HM654N SSI-AWARD THEN
JMW249A	HM040A SSD APPLY-MO
JMW249B	HM041A SSI APPLY-MO
JMW250A	HM040B SSD APPLY-YR
JMW250B	HM041B SSI APPLY-YR
JMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
JMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
JMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
JMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR
HRS 2006:	
KJ014	DISABLED-MO
KJ015	DISABLED- YR
KM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
KM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
KM014	HM014 HEALTH PROB INTERFERE-YR
KM015	HM015 HEALTH PROB INTERFERE-MO
KM016	HM016 HEALTH PROB PREVENT WRK-YR
KM017	HM017 HEALTH PROB PREVENT WRK-MO
KM030	HM030 REC SSDI/SSI/BOTH
KM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
KM032	HM032 SSDI APPLICATION APPROVED
KM033	HM033 SSI APPLICATION APPROVED
KM036	HM036 APPLY OTR DISABILITY
KM037M1	HM037M1 DISABILITY PROGRAMS-1
KM037M2	HM037M2 DISABILITY PROGRAMS-2
KM037M3	HM037M3 DISABILITY PROGRAMS-3
KM040	HM040E SSD 1ST APPL STATUS
KM041	HM041 SSI-AWARD THEN
KM058	HM058 WHICH DISABILITY PROGRAM
KM645	HM645 EVER APPLY FOR SSDI
KM646	HM646 1ST APPLIED SSDI - YR
KM647	HM647 1ST APPLIED SSDI - MO
KM648	HM648 SSDI AWARDED BENEFITS
KM651	HM651 EVER APPLY FOR SSI
KM652	HM652 1ST APPLIED SSI - YR
KM653	HM653 1ST APPLIED SSI - MO
KM654	HM654 SSI AWARDED BENEFITS

KMW233C	HM032A2 SSDI START-MO -2
KMW233D	HM033A2 SSI START-MO -2
KMW233I	HM040J SSDI START-MO -3
KMW233J	SSI START-MO -3
KMW233Q	HM648A1 SSDI START MONTH-1
KMW233S	HM654A1 SSI START MONTH-1
KMW234C	HM032B2 SSDI START-YR -2
KMW234D	HM041K SSI START-YR -2
KMW234I	HM040K SSDI START-YR -3
KMW234J	SSI START-YR -3
KMW234Q	HM648B1 SSDI START YEAR-1
KMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
KMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
KMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
KMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
KMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
KMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
KMW238Q	HM648F1 STILL REC SSDI BENS-1
KMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
KMW243A	HM040U SSDI STOP-MO -1
KMW243B	HM030K2 SSI STOP-MO -1
KMW243C	HM032K1 SSDI STOP-MO -2
KMW243D	HM033H1 SSI STOP-MO -2
KMW243I	HM032K2 SSDI STOP-MO -3
KMW243J	HM041R SSI STOP-MO -3
KMW243Q	SSDI STOP MONTH-1
KMW243S	HM654H1 SSI STOP MONTH-1
KMW244A	HM030K1 SSDI STOP-YR
KMW244B	HM030L2 SSI STOP-YR -1
KMW244C	HM030L1 SSDI STOP-YR -2
KMW244D	HM033I1 SSI STOP-YR -2
KMW244I	HM032L1 SSDI STOP-YR -3
KMW244J	HM041S SSI STOP-YR -3
KMW244Q	SSDI STOP YEAR-1
KMW244S	HM654I2 SSI STOP YEAR-1
KMW245A	HM040F SSDI-APPLY AGAIN -1
KMW245B	HM041F SSI-APPLY AGAIN -1
KMW245C	HM032N SSDI-APPLY AGAIN -2
KMW245D	HM033L SSI-APPLY AGAIN -2
KMW245H	HM648N SSDI-APPLY AGAIN-1
KMW245I	HM654J SSI-APPLY AGAIN-1
KMW246A	HM040G SSDI-LAST APPLY MO -1
KMW246B	HM041G SSI-LAST APPLY MO -1
KMW246C	HM032O SSDI-LAST APPLY MO -2
KMW246D	HM033N SSI-LAST APPLY MO -2
KMW246G	HM050G OTH PROG-LAST APPLY MO -1
KMW246H	HM648O SSDI-LAST APPLY MO-1
KMW246I	HM654K SSI-LAST APPLY MO
KMW247A	HM040H SSDI-LAST APPLY YR -1
KMW247B	HM041H SSI-LAST APPLY YR -1
KMW247C	HM032P SSDI-LAST APPLY YR -2
KMW247D	HM033O SSI-LAST APPLY YR -2
KMW247E	HM042H VA-LAST APPLY YR -1
KMW247H	HM648P SSDI-LAST APPLY YR-1
KMW247I	HM654L SSI-LAST APPLY YR-1
KMW248A	HM040I SSDI-AWARD THEN -1
KMW248B	HM041I SSI-AWARD THEN -1
KMW248C	HM032Q SSDI-AWARD THEN -2
KMW248D	HM033P SSI-AWARD THEN -2

KMW248H	HM648Q SSDI-AWARD THEN-1
KMW248I	HM654N SSI-AWARD THEN
KMW249A	HM040A SSD APPLY-MO
KMW249B	HM041A SSI APPLY-MO
KMW250A	HM040B SSD APPLY-YR
KMW250B	HM041B SSI APPLY-YR
KMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
KMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
KMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
KMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR
HRS 2008:	
LJ014	DISABLED-MO
LJ015	DISABLED- YR
LM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
LM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
LM014	HM014 HEALTH PROB INTERFERE-YR
LM015	HM015 HEALTH PROB INTERFERE-MO
LM016	HM016 HEALTH PROB PREVENT WRK-YR
LM017	HM017 HEALTH PROB PREVENT WRK-MO
LM030	HM030 REC SSDI/SSI/BOTH
LM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
LM032	HM032 SSDI APPLICATION APPROVED
LM033	HM033 SSI APPLICATION APPROVED
LM036	HM036 APPLY OTR DISABILITY
LM037M1	HM037M1 DISABILITY PROGRAMS-1
LM037M2	HM037M2 DISABILITY PROGRAMS-2
LM037M3	HM037M3 DISABILITY PROGRAMS-3
LM040	HM040E SSD 1ST APPL STATUS
LM041	HM041 SSI-AWARD THEN
LM058	HM058 WHICH DISABILITY PROGRAM
LM645	HM645 EVER APPLY FOR SSDI
LM646	HM646 1ST APPLIED SSDI - YR
LM647	HM647 1ST APPLIED SSDI - MO
LM648	HM648 SSDI AWARDED BENEFITS
LM651	HM651 EVER APPLY FOR SSI
LM652	HM652 1ST APPLIED SSI - YR
LM653	HM653 1ST APPLIED SSI - MO
LM654	HM654 SSI AWARDED BENEFITS
LMW233C	HM032A2 SSDI START-MO -2
LMW233D	HM033A2 SSI START-MO -2
LMW233I	HM040J SSDI START-MO -3
LMW233J	SSI START-MO -3
LMW233Q	HM648A1 SSDI START MONTH-1
LMW233S	HM654A1 SSI START MONTH-1
LMW234C	HM032B2 SSDI START-YR -2
LMW234D	HM041K SSI START-YR -2
LMW234I	HM040K SSDI START-YR -3
LMW234J	SSI START-YR -3
LMW234Q	HM648B1 SSDI START YEAR-1
LMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
LMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
LMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
LMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
LMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
LMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
LMW238Q	HM648F1 STILL REC SSDI BENS-1
LMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
LMW243A	HM040U SSDI STOP-MO -1
LMW243B	HM030K2 SSI STOP-MO -1



LMW243C	HM032K1 SSDI STOP-MO -2
LMW243D	HM033H1 SSI STOP-MO -2
LMW243I	HM032K2 SSDI STOP-MO -3
LMW243J	HM041R SSI STOP-MO -3
LMW243Q	SSDI STOP MONTH-1
LMW243S	HM654H1 SSI STOP MONTH-1
LMW244A	HM030K1 SSDI STOP-YR
LMW244B	HM030L2 SSI STOP-YR -1
LMW244C	HM030L1 SSDI STOP-YR -2
LMW244D	HM033I1 SSI STOP-YR -2
LMW244I	HM032L1 SSDI STOP-YR -3
LMW244J	HM041S SSI STOP-YR -3
LMW244Q	SSDI STOP YEAR-1
LMW244S	HM654I2 SSI STOP YEAR-1
LMW245A	HM040F SSDI-APPLY AGAIN -1
LMW245B	HM041F SSI-APPLY AGAIN -1
LMW245C	HM032N SSDI-APPLY AGAIN -2
LMW245D	HM033L SSI-APPLY AGAIN -2
LMW245H	HM648N SSDI-APPLY AGAIN-1
LMW245I	HM654J SSI-APPLY AGAIN-1
LMW246A	HM040G SSDI-LAST APPLY MO -1
LMW246B	HM041G SSI-LAST APPLY MO -1
LMW246C	HM032O SSDI-LAST APPLY MO -2
LMW246D	HM033N SSI-LAST APPLY MO -2
LMW246G	HM050G OTH PROG-LAST APPLY MO -1
LMW246H	HM648O SSDI-LAST APPLY MO-1
LMW246I	HM654K SSI-LAST APPLY MO
LMW247A	HM040H SSDI-LAST APPLY YR -1
LMW247B	HM041H SSI-LAST APPLY YR -1
LMW247C	HM032P SSDI-LAST APPLY YR -2
LMW247D	HM033O SSI-LAST APPLY YR -2
LMW247E	HM042H VA-LAST APPLY YR -1
LMW247H	HM648P SSDI-LAST APPLY YR-1
LMW247I	HM654L SSI-LAST APPLY YR-1
LMW248A	HM040I SSDI-AWARD THEN -1
LMW248B	HM041I SSI-AWARD THEN -1
LMW248C	HM032Q SSDI-AWARD THEN -2
LMW248D	HM033P SSI-AWARD THEN -2
LMW248H	HM648Q SSDI-AWARD THEN-1
LMW248I	HM654N SSI-AWARD THEN
LMW249A	HM040A SSD APPLY-MO
LMW249B	HM041A SSI APPLY-MO
LMW250A	HM040B SSD APPLY-YR
LMW250B	HM041B SSI APPLY-YR
LMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
LMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
LMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
LMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR
HRS 2010:	
MJ014	DISABLED-MO
MJ015	DISABLED- YR
MM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
MM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
MM014	HM014 HEALTH PROB INTERFERE-YR
MM015	HM015 HEALTH PROB INTERFERE-MO
MM016	HM016 HEALTH PROB PREVENT WRK-YR
MM017	HM017 HEALTH PROB PREVENT WRK-MO
MM030	HM030 REC SSDI/SSI/BOTH
MM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI

MM032	HM032 SSDI APPLICATION APPROVED
MM033	HM033 SSI APPLICATION APPROVED
MM036	HM036 APPLY OTR DISABILITY
MM037M1	HM037M1 DISABILITY PROGRAMS-1
MM037M2	HM037M2 DISABILITY PROGRAMS-2
MM037M3	HM037M3 DISABILITY PROGRAMS-3
MM040	HM040E SSD 1ST APPL STATUS
MM041	HM041 SSI-AWARD THEN
MM058	HM058 WHICH DISABILITY PROGRAM
MM645	HM645 EVER APPLY FOR SSDI
MM646	HM646 1ST APPLIED SSDI - YR
MM647	HM647 1ST APPLIED SSDI - MO
MM648	HM648 SSDI AWARDED BENEFITS
MM651	HM651 EVER APPLY FOR SSI
MM652	HM652 1ST APPLIED SSI - YR
MM653	HM653 1ST APPLIED SSI - MO
MM654	HM654 SSI AWARDED BENEFITS
MMW233C	HM032A2 SSDI START-MO -2
MMW233D	HM033A2 SSI START-MO -2
MMW233I	HM040J SSDI START-MO -3
MMW233J	SSI START-MO -3
MMW233Q	HM648A1 SSDI START MONTH-1
MMW233S	HM654A1 SSI START MONTH-1
MMW234C	HM032B2 SSDI START-YR -2
MMW234D	HM041K SSI START-YR -2
MMW234I	HM040K SSDI START-YR -3
MMW234J	SSI START-YR -3
MMW234Q	HM648B1 SSDI START YEAR-1
MMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
MMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
MMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
MMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
MMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
MMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
MMW238Q	HM648F1 STILL REC SSDI BENS-1
MMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
MMW243A	HM040U SSDI STOP-MO -1
MMW243B	HM030K2 SSI STOP-MO -1
MMW243C	HM032K1 SSDI STOP-MO -2
MMW243D	HM033H1 SSI STOP-MO -2
MMW243I	HM032K2 SSDI STOP-MO -3
MMW243J	HM041R SSI STOP-MO -3
MMW243Q	SSDI STOP MONTH-1
MMW243S	HM654H1 SSI STOP MONTH-1
MMW244A	HM030K1 SSDI STOP-YR
MMW244B	HM030L2 SSI STOP-YR -1
MMW244C	HM030L1 SSDI STOP-YR -2
MMW244D	HM033I1 SSI STOP-YR -2
MMW244I	HM032L1 SSDI STOP-YR -3
MMW244J	HM041S SSI STOP-YR -3
MMW244Q	SSDI STOP YEAR-1
MMW244S	HM654I2 SSI STOP YEAR-1
MMW245A	HM040F SSDI-APPLY AGAIN -1
MMW245B	HM041F SSI-APPLY AGAIN -1
MMW245C	HM032N SSDI-APPLY AGAIN -2
MMW245D	HM033L SSI-APPLY AGAIN -2
MMW245H	HM648N SSDI-APPLY AGAIN-1
MMW245I	HM654J SSI-APPLY AGAIN-1
MMW246A	HM040G SSDI-LAST APPLY MO -1

MMW246B	HM041G SSI-LAST APPLY MO -1
MMW246C	HM032O SSDI-LAST APPLY MO -2
MMW246D	HM033N SSI-LAST APPLY MO -2
MMW246G	HM050G OTH PROG-LAST APPLY MO -1
MMW246H	HM648O SSDI-LAST APPLY MO-1
MMW246I	HM654K SSI-LAST APPLY MO
MMW247A	HM040H SSDI-LAST APPLY YR -1
MMW247B	HM041H SSI-LAST APPLY YR -1
MMW247C	HM032P SSDI-LAST APPLY YR -2
MMW247D	HM033O SSI-LAST APPLY YR -2
MMW247E	HM042H VA-LAST APPLY YR -1
MMW247H	HM648P SSDI-LAST APPLY YR-1
MMW247I	HM654L SSI-LAST APPLY YR-1
MMW248A	HM040I SSDI-AWARD THEN -1
MMW248B	HM041I SSI-AWARD THEN -1
MMW248C	HM032Q SSDI-AWARD THEN -2
MMW248D	HM033P SSI-AWARD THEN -2
MMW248H	HM648Q SSDI-AWARD THEN-1
MMW248I	HM654N SSI-AWARD THEN
MMW249A	HM040A SSD APPLY-MO
MMW249B	HM041A SSI APPLY-MO
MMW250A	HM040B SSD APPLY-YR
MMW250B	HM041B SSI APPLY-YR
MMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
MMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
MMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
MMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR
HRS 2012:	
NJ014	DISABLED-MO
NJ015	DISABLED- YR
NM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
NM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
NM014	HM014 HEALTH PROB INTERFERE-YR
NM015	HM015 HEALTH PROB INTERFERE-MO
NM016	HM016 HEALTH PROB PREVENT WRK-YR
NM017	HM017 HEALTH PROB PREVENT WRK-MO
NM030	HM030 REC SSDI/SSI/BOTH
NM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
NM032	HM032 SSDI APPLICATION APPROVED
NM033	HM033 SSI APPLICATION APPROVED
NM036	HM036 APPLY OTR DISABILITY
NM037M1	HM037M1 DISABILITY PROGRAMS-1
NM037M2	HM037M2 DISABILITY PROGRAMS-2
NM037M3	HM037M3 DISABILITY PROGRAMS-3
NM040	HM040E SSD 1ST APPL STATUS
NM041	HM041 SSI-AWARD THEN
NM058	HM058 WHICH DISABILITY PROGRAM
NM645	HM645 EVER APPLY FOR SSDI
NM646	HM646 1ST APPLIED SSDI - YR
NM647	HM647 1ST APPLIED SSDI - MO
NM648	HM648 SSDI AWARDED BENEFITS
NM651	HM651 EVER APPLY FOR SSI
NM652	HM652 1ST APPLIED SSI - YR
NM653	HM653 1ST APPLIED SSI - MO
NM654	HM654 SSI AWARDED BENEFITS
NMW233C	HM032A2 SSDI START-MO -2
NMW233D	HM033A2 SSI START-MO -2
NMW233I	HM040J SSDI START-MO -3
NMW233J	SSI START-MO -3

NMW233Q	HM648A1 SSDI START MONTH-1
NMW233S	HM654A1 SSI START MONTH-1
NMW234C	HM032B2 SSDI START-YR -2
NMW234D	HM041K SSI START-YR -2
NMW234I	HM040K SSDI START-YR -3
NMW234J	SSI START-YR -3
NMW234Q	HM648B1 SSDI START YEAR-1
NMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
NMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
NMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
NMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
NMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
NMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
NMW238Q	HM648F1 STILL REC SSDI BENS-1
NMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
NMW243A	HM040U SSDI STOP-MO -1
NMW243B	HM030K2 SSI STOP-MO -1
NMW243C	HM032K1 SSDI STOP-MO -2
NMW243D	HM033H1 SSI STOP-MO -2
NMW243I	HM032K2 SSDI STOP-MO -3
NMW243J	HM041R SSI STOP-MO -3
NMW243Q	SSDI STOP MONTH-1
NMW243S	HM654H1 SSI STOP MONTH-1
NMW244A	HM030K1 SSDI STOP-YR
NMW244B	HM030L2 SSI STOP-YR -1
NMW244C	HM030L1 SSDI STOP-YR -2
NMW244D	HM033I1 SSI STOP-YR -2
NMW244I	HM032L1 SSDI STOP-YR -3
NMW244J	HM041S SSI STOP-YR -3
NMW244Q	SSDI STOP YEAR-1
NMW244S	HM654I2 SSI STOP YEAR-1
NMW245A	HM040F SSDI-APPLY AGAIN -1
NMW245B	HM041F SSI-APPLY AGAIN -1
NMW245C	HM032N SSDI-APPLY AGAIN -2
NMW245D	HM033L SSI-APPLY AGAIN -2
NMW245H	HM648N SSDI-APPLY AGAIN-1
NMW245I	HM654J SSI-APPLY AGAIN-1
NMW246A	HM040G SSDI-LAST APPLY MO -1
NMW246B	HM041G SSI-LAST APPLY MO -1
NMW246C	HM032O SSDI-LAST APPLY MO -2
NMW246D	HM033N SSI-LAST APPLY MO -2
NMW246G	HM050G OTH PROG-LAST APPLY MO -1
NMW246H	HM648O SSDI-LAST APPLY MO-1
NMW246I	HM654K SSI-LAST APPLY MO
NMW247A	HM040H SSDI-LAST APPLY YR -1
NMW247B	HM041H SSI-LAST APPLY YR -1
NMW247C	HM032P SSDI-LAST APPLY YR -2
NMW247D	HM033O SSI-LAST APPLY YR -2
NMW247E	HM042H VA-LAST APPLY YR -1
NMW247H	HM648P SSDI-LAST APPLY YR-1
NMW247I	HM654L SSI-LAST APPLY YR-1
NMW248A	HM040I SSDI-AWARD THEN -1
NMW248B	HM041I SSI-AWARD THEN -1
NMW248C	HM032Q SSDI-AWARD THEN -2
NMW248D	HM033P SSI-AWARD THEN -2
NMW248H	HM648Q SSDI-AWARD THEN-1
NMW248I	HM654N SSI-AWARD THEN
NMW249A	HM040A SSD APPLY-MO
NMW249B	HM041A SSI APPLY-MO

NMW250A	HM040B SSD APPLY-YR
NMW250B	HM041B SSI APPLY-YR
NMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
NMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
NMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
NMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR
HRS 2014:	
OJ014	DISABLED-MO
OJ015	DISABLED- YR
OM009	HM009 KEEP FROM WRK 1ST BEGIN-YR
OM010	HM010 HEALTH PROBLEM FIRST BOTHER-MO
OM014	HM014 HEALTH PROB INTERFERE-YR
OM015	HM015 HEALTH PROB INTERFERE-MO
OM016	HM016 HEALTH PROB PREVENT WRK-YR
OM017	HM017 HEALTH PROB PREVENT WRK-MO
OM030	HM030 REC SSDI/SSI/BOTH
OM031	HM031 PRIOR WAVE APPLIED FOR SSDI/SSI
OM032	HM032 SSDI APPLICATION APPROVED
OM033	HM033 SSI APPLICATION APPROVED
OM036	HM036 APPLY OTR DISABILITY
OM037M1	HM037M1 DISABILITY PROGRAMS-1
OM037M2	HM037M2 DISABILITY PROGRAMS-2
OM037M3	HM037M3 DISABILITY PROGRAMS-3
OM040	HM040E SSD 1ST APPL STATUS
OM041	HM041 SSI-AWARD THEN
OM058	HM058 WHICH DISABILITY PROGRAM
OM645	HM645 EVER APPLY FOR SSDI
OM646	HM646 1ST APPLIED SSDI - YR
OM647	HM647 1ST APPLIED SSDI - MO
OM648	HM648 SSDI AWARDED BENEFITS
OM651	HM651 EVER APPLY FOR SSI
OM652	HM652 1ST APPLIED SSI - YR
OM653	HM653 1ST APPLIED SSI - MO
OM654	HM654 SSI AWARDED BENEFITS
OMW233C	HM032A2 SSDI START-MO -2
OMW233D	HM033A2 SSI START-MO -2
OMW233I	HM040J SSDI START-MO -3
OMW233J	SSI START-MO -3
OMW233Q	HM648A1 SSDI START MONTH-1
OMW233S	HM654A1 SSI START MONTH-1
OMW234C	HM032B2 SSDI START-YR -2
OMW234D	HM041K SSI START-YR -2
OMW234I	HM040K SSDI START-YR -3
OMW234J	SSI START-YR -3
OMW234Q	HM648B1 SSDI START YEAR-1
OMW238A	HM030F1 STILL RECEIVING SSDI BENEFITS -1
OMW238B	HM030F2 STILL RECEIVING SSI BENEFITS-1
OMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
OMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
OMW238I	HM040P STILL RECEIVING SSDI BENEFITS -3
OMW238J	HM041L STILL RECEIVING SSI BENEFITS -3
OMW238Q	HM648F1 STILL REC SSDI BENS-1
OMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
OMW243A	HM040U SSDI STOP-MO -1
OMW243B	HM030K2 SSI STOP-MO -1
OMW243C	HM032K1 SSDI STOP-MO -2
OMW243D	HM033H1 SSI STOP-MO -2
OMW243I	HM032K2 SSDI STOP-MO -3
OMW243J	HM041R SSI STOP-MO -3

OMW243Q	SSDI STOP MONTH-1
OMW243S	HM654H1 SSI STOP MONTH-1
OMW244A	HM030K1 SSDI STOP-YR
OMW244B	HM030L2 SSI STOP-YR -1
OMW244C	HM030L1 SSDI STOP-YR -2
OMW244D	HM033I1 SSI STOP-YR -2
OMW244I	HM032L1 SSDI STOP-YR -3
OMW244J	HM041S SSI STOP-YR -3
OMW244Q	SSDI STOP YEAR-1
OMW244S	HM654I2 SSI STOP YEAR-1
OMW245A	HM040F SSDI-APPLY AGAIN -1
OMW245B	HM041F SSI-APPLY AGAIN -1
OMW245C	HM032N SSDI-APPLY AGAIN -2
OMW245D	HM033L SSI-APPLY AGAIN -2
OMW245H	HM648N SSDI-APPLY AGAIN-1
OMW245I	HM654J SSI-APPLY AGAIN-1
OMW246A	HM040G SSDI-LAST APPLY MO -1
OMW246B	HM041G SSI-LAST APPLY MO -1
OMW246C	HM032O SSDI-LAST APPLY MO -2
OMW246D	HM033N SSI-LAST APPLY MO -2
OMW246G	HM050G OTH PROG-LAST APPLY MO -1
OMW246H	HM648O SSDI-LAST APPLY MO-1
OMW246I	HM654K SSI-LAST APPLY MO
OMW247A	HM040H SSDI-LAST APPLY YR -1
OMW247B	HM041H SSI-LAST APPLY YR -1
OMW247C	HM032P SSDI-LAST APPLY YR -2
OMW247D	HM033O SSI-LAST APPLY YR -2
OMW247E	HM042H VA-LAST APPLY YR -1
OMW247H	HM648P SSDI-LAST APPLY YR-1
OMW247I	HM654L SSI-LAST APPLY YR-1
OMW248A	HM040I SSDI-AWARD THEN -1
OMW248B	HM041I SSI-AWARD THEN -1
OMW248C	HM032Q SSDI-AWARD THEN -2
OMW248D	HM033P SSI-AWARD THEN -2
OMW248H	HM648Q SSDI-AWARD THEN-1
OMW248I	HM654N SSI-AWARD THEN
OMW249A	HM040A SSD APPLY-MO
OMW249B	HM041A SSI APPLY-MO
OMW250A	HM040B SSD APPLY-YR
OMW250B	HM041B SSI APPLY-YR
OMW251A	HM040C SSD APPLY SINCE PREV WAVE-MO
OMW251B	HM041C SSI APPLY SINCE PREV WAVE-MO
OMW252A	HM040D SSD APPLY SINCE PREV WAVE-YR
OMW252B	HM041D SSI APPLY SINCE PREV WAVE-YR

### SSDI, SSI Status (Each Wave)

Wave	Variable	Label	Type
1	R1DSTAT	R1DSTAT:W1 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
2	R2DSTAT	R2DSTAT:W2 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
3	R3DSTAT	R3DSTAT:W3 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
4	R4DSTAT	R4DSTAT:W4 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
5	R5DSTAT	R5DSTAT:W5 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
6	R6DSTAT	R6DSTAT:W6 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
7	R7DSTAT	R7DSTAT:W7 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
8	R8DSTAT	R8DSTAT:W8 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
9	R9DSTAT	R9DSTAT:W9 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
10	R10DSTAT	R10DSTAT:W10 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
11	R11DSTAT	R11DSTAT:W11 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
12	R12DSTAT	R12DSTAT:W12 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
1	S1DSTAT	S1DSTAT:W1 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
2	S2DSTAT	S2DSTAT:W2 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
3	S3DSTAT	S3DSTAT:W3 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
4	S4DSTAT	S4DSTAT:W4 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
5	S5DSTAT	S5DSTAT:W5 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
6	S6DSTAT	S6DSTAT:W6 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
7	S7DSTAT	S7DSTAT:W7 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
8	S8DSTAT	S8DSTAT:W8 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
9	S9DSTAT	S9DSTAT:W9 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
10	S10DSTAT	S10DSTAT:W10 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
11	S11DSTAT	S11DSTAT:W11 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ
12	S12DSTAT	S12DSTAT:W12 'POSITION 1=DK, 2=SSDI, 3=SSI'	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DSTAT	12652	9.75	42.29	0.0	200.0
R2DSTAT	11420	11.07	43.62	0.0	200.0
R3DSTAT	10964	13.06	46.91	0.0	200.0
R4DSTAT	21384	8.24	36.73	0.0	200.0
R5DSTAT	19579	4.39	24.62	0.0	200.0
R6DSTAT	18165	2.96	18.29	0.0	200.0
R7DSTAT	20129	2.73	17.03	0.0	200.0
R8DSTAT	18469	2.53	15.90	0.0	200.0
R9DSTAT	17217	2.51	15.92	0.0	200.0
R10DSTAT	22034	2.43	13.65	0.0	200.0
R11DSTAT	20554	2.47	13.44	0.0	200.0
R12DSTAT	18747	2.55	13.28	0.0	200.0
S1DSTAT	9900	7.48	37.25	0.0	200.0
S2DSTAT	8739	8.28	37.79	0.0	200.0
S3DSTAT	8306	10.03	41.38	0.0	200.0
S4DSTAT	13978	6.65	32.68	0.0	200.0
S5DSTAT	12730	3.88	23.18	0.0	200.0
S6DSTAT	11639	2.58	16.73	0.0	200.0
S7DSTAT	12972	2.28	15.13	0.0	200.0
S8DSTAT	11735	2.10	13.99	0.0	200.0
S9DSTAT	10646	2.00	13.67	0.0	200.0
S10DSTAT	13513	1.83	11.56	0.0	200.0
S11DSTAT	12488	1.86	11.17	0.0	200.0
S12DSTAT	11027	1.90	11.21	0.0	200.0

## Categorical Variable Codes

Value	R1DSTAT	R2DSTAT	R3DSTAT	R4DSTAT	R5DSTAT	R6DSTAT	R7DSTAT
.Q=Not asked this wv		8222	7027				
0.No activity	11827	10453	9869	19713	18040	16829	18574
1.Applying SSI		3		7	21	24	34
2.Receiving SSI	48	57	64	162	240	202	227
10.Applying SSDI		14		46	111	82	129
11.Applying SSDI + SSI					7	22	52
12.Apply SSDI/Recv SSI					9	9	3
20.Receiving SSDI	165	218	257	471	622	643	753
21.Recv SSDI/Apply SSI					2	1	3
22.Recv SSDI + SSI					74	88	108
100.Applying DK which	24	132	169	310	206	156	141
200.Receiving DK which	588	543	605	675	247	109	105

Value	R8DSTAT	R9DSTAT	R10DSTAT	R11DSTAT	R12DSTAT
0.No activity	17011	15852	19908	18393	16658
1.Applying SSI	39	44	43	52	59
2.Receiving SSI	238	222	280	343	278
10.Applying SSDI	117	128	208	228	244
11.Applying SSDI + SSI	51	53	97	111	132
12.Apply SSDI/Recv SSI	8	5	11	7	9
20.Receiving SSDI	715	644	1104	1073	1038
21.Recv SSDI/Apply SSI	5	3	11	5	11
22.Recv SSDI + SSI	84	82	214	198	193
100.Applying DK which	120	107	89	83	71
200.Receiving DK which	81	77	69	61	54

Value	S1DSTAT	S2DSTAT	S3DSTAT	S4DSTAT	S5DSTAT	S6DSTAT	S7DSTAT
.Q=Not asked this wv		4549	3704				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	323	537	311	220	380
0.No activity	9414	8185	7679	13060	11886	10908	12156
1.Applying SSI		1		2	12	12	15
2.Receiving SSI	14	14	17	41	69	63	67
10.Applying SSDI		5		34	72	55	92
11.Applying SSDI + SSI					4	10	24
12.Apply SSDI/Recv SSI					7	5	2
20.Receiving SSDI	106	144	158	320	404	416	451
21.Recv SSDI/Apply SSI							2
22.Recv SSDI + SSI					20	23	27
100.Applying DK which	13	86	103	181	113	91	87
200.Receiving DK which	353	304	349	340	143	56	49

Value	S8DSTAT	S9DSTAT	S10DSTAT	S11DSTAT	S12DSTAT
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No activity	10974	9969	12532	11485	10097
1.Applying SSI	16	18	19	24	31
2.Receiving SSI	74	71	88	118	93
10.Applying SSDI	76	72	113	123	133
11.Applying SSDI + SSI	26	26	44	57	46
12.Apply SSDI/Recv SSI	4	3	4	3	4
20.Receiving SSDI	428	377	560	542	501
21.Recv SSDI/Apply SSI	4	2	6	4	8
22.Recv SSDI + SSI	29	21	77	68	63
100.Applying DK which	67	54	41	41	29
200.Receiving DK which	37	33	29	23	22



## How Constructed

RwDSTAT indicates whether a Respondent is receiving or applying for disability benefits through Social Security Disability Insurance (SSDI) and/or Supplemental Security Income (SSI) at Wave "w." It is a three-digit variable, where the ones-digit indicates the status of SSI, the tens-digit indicates the status of SSDI, and the hundreds-digit indicates the status of SSDI/SSI where we do not know which program. A one in the appropriate digit indicates that the Respondent has applied but has not been awarded or rejected. A two indicates that the Respondent is receiving benefits, and a zero indicates neither applying nor receiving. For example, 12 means that the Respondent is applying for SSDI and receiving SSI benefits, and 100 indicates the Respondent is applying for SSDI or SSI or both, but we do not know which program.

Before Wave 5, SSDI and SSI are combined in the survey questions. From Wave 5 forward, these programs are treated separately. If the Respondent first reports an application, reapplication, or receipt for SSDI or SSI before Wave 5, we do not know which program is involved. If the receipt or application remains active until Wave 5 or beyond, the Respondent is asked which program, and the statuses for SSDI and SSI can be reported distinctly. In some cases a Respondent reports receiving (or applying for) benefits from SSDI in Wave 5 and reports still receiving benefits at Wave 6, but then reports that the benefits are from SSI or vice versa. In these cases, status is reported for the program type reported in the current wave. For example, if the Wave 5 program is SSDI and the Wave 6 program is SSI, then the Wave 5 status is reported for SSDI, and then in Wave 6, for SSI.

SwDSTAT indicates whether the Respondent's spouse is receiving or applying for SSDI or SSI at Wave "w." It is taken from the spouse's self-reported RwDSTAT for Wave "w."

In Wave 2A and 3A, there are no comparable questions, and so for members of the AHEAD cohort, R2DSTAT and R3DSTAT are set to .Q to indicate that no information is available.

For more detailed information on disability applications and benefit receipt, please see the "SSDI/SSI Disability Episodes" variables.

## Cross Wave Differences in Original HRS Data

The Disability section of the HRS asks questions about whether the Respondent has applied for disability benefits from Social Security Disability Insurance (SSDI) or Supplemental Security Income (SSI) in every wave. Before Wave 5, the questions ask about the two programs together. From Wave 5 forward, the questions ask about the programs separately.

In Wave 1, a question asks if the Respondent has ever applied for SSDI or SSI, and if yes, whether s/he is currently receiving benefits. If not, another question asks whether s/he has appealed or re-applied and if so, whether the re-application was approved.

In Waves 2H, 3H and 4, it asks if the Respondent has applied for disability benefits from any government program since the last interview (or ever if it is the first interview) and if yes, asks which program(s). In the answers, SSDI and SSI are listed together. If the Respondent reports applying for SSDI/SSI, then the questions follow the same pattern as in Wave 1.

From Wave 5 forward, the question wording is the same but separate questions are asked for the two programs. If the Respondent reports applying for but not receiving SSDI benefits, a question then asks whether s/he has appealed or re-applied for SSDI, and if so, when the last re-application was made. If an SSI application without approval is reported, then another question asks if s/he has appealed or re-applied for SSI and if so, when the last re-application was made.

After Wave 1, re-interviewed Respondents are asked questions about the status of previously reported SSDI/SSI benefit receipt. From Wave 4 forward, re-interviewed Respondents are asked about the status of applications made but unresolved

at the prior wave. If a Respondent had applied for SSDI/SSI in a previous wave and the application was still pending, s/he is asked if it was approved. From Wave 5 forward, s/he is first asked what type of benefit was applied for or received, SSDI or SSI. From Wave 5 forward, if the prior wave application was not approved, the Respondent is asked if s/he has appealed or reapplied. These questions are asked before the questions about applying since last interview described above.

In Wave 2A and 3A, there are no comparable questions.

## HRS Variables Used

HRS 1992:	
V4706	J123:EVR APPLD DISAB BEN
V4709	J123B:AWARDED BENEFITS
V4710	J123C:APPEAL/APPLY AGAIN
V4713	J123E:AWARDED BENEFITS
V4719	J123J:STLL RECVNG BENFTS
HRS 1994:	
W5259	J18.STILL RECEIVING SSD/
W5268	J23.APPLY FOR OTHER DISA
W5269	J24.DISABILITY PROGRAM
W5270	J24.DISABILITY PROGRAM
W5271	J24.DISABILITY PROGRAM
W5278	J26b.AWARDED SSD/SSI THE
W5279	J26c.APPEAL/APPLY LATER
W5282	J26e.AWARDED SSD/SSI THEN
W5288	J26j.SSD/SSI STILL RECEI
HRS 1996:	
E3580	GD18. RECEIVE SSD/SSI
E3589	GD23. APPLY OTHER DISABILITY
E3595M1	GD24. DISABILITY PROGRAMS
E3595M2	GD24. DISABILITY PROGRAMS
E3595M3	GD24. DISABILITY PROGRAMS
E3600	GD26B. SS-AWARD THEN
E3601	GD26C. SS-APPLY AGAIN
E3604	GD26E. SS-AWARD THEN
E3614	GD26J. SS-STILL RECEIVING
HRS 1998:	
F4088	GD18. RECEIVE SSD/SSI
F4091	GD18C.PRIOR WAVE APPLIED FOR SSDI/SSI
F4097	GD18G.STILL RECEIVING BENEFITS
F4123	GD23. APPLY OTHER DISABILITY
F4124M1	GD24. DISABILITY PROGRAMS
F4124M2	GD24. DISABILITY PROGRAMS
F4124M3	GD24. DISABILITY PROGRAMS
F4129	GD26B. SS-AWARD THEN
F4130	GD26C. SS-APPLY AGAIN
F4133	GD26E. SSI-AWARD THEN
F4139	GD26J. SS-STILL RECEIVING
F4489	GJ123.EVER APPLY FOR SSD OR SSI
F4492	GJ123B.SS AWARDED BENEFITS
F4493	GJ123C.SS APPEALED OR APPLY AGAIN
F4496	GJ123E.SS AWARDED THEN
F4502	GJ123J.STILL RECEIVING BENEFITS
HRS 2000:	
G4373	GD18. RECEIVE SSD/SSI
G4374	GD18AA. REC`D SSDI BENEFITS
G4383	GD18BA. REC`D SSI BENEFITS
G4389	GD18C.PRIOR WAVE APPLIED FOR SSDI/SSI

G4390	GD18CA. SSDI APPLICATION APPROVED
G4396	GD18CG.STILL RECEIVING SSDI BENEFITS
G4400	GD18DA. SSDI-APPLY AGAIN
G4403	GD18DD. SSDI-AWARD THEN
G4409	GD18DK.STILL RECEIVING SSDI BENEFITS
G4413	GD18EA. SSI APPLICATION APPROVED
G4416	GD18ED.STILL RECEIVING SSI BENEFITS
G4420	GD18EH. SSI-APPLY AGAIN
G4423	GD18EM. SSI-AWARD THEN
G4426	GD18EQ.STILL RECEIVING SSI BENEFITS
G4453	GD23. APPLY OTHER DISABILITY
G4454M1	GD24. DISABILITY PROGRAMS
G4454M2	GD24. DISABILITY PROGRAMS
G4454M3	GD24. DISABILITY PROGRAMS
G4459	GD26B.SSD 1ST APPL STATUS
G4460	GD26C.SSD WHETHER APPLIED AGAIN
G4463	GD26E.SSD LAST APPLICATION STATUS
G4466	GD26G.SSD-STILL RECEIVING
G4477	GD27B. SSI-AWARD THEN
G4478	GD27C. SSI-APPLY AGAIN
G4481	GD27E. SSI-AWARD THEN
G4484	GD27G. SSI-STILL RECEIVING
G4862	GJ123.EVER APPLY FOR SSDI
G4865	GJ123B.SSDI AWARDED BENEFITS
G4866	GJ123C.SSDI APPEALED OR APPLY AGAIN
G4869	GJ123E.SSDI AWARDED THEN
G4875	GJ123J.STILL RECEIVING BENEFITS
G4881	GJ125.EVER APPLY FOR SSI
G4884	GJ125B.SSI AWARDED BENEFITS
G4885	GJ125C.SSI APPEALED OR APPLY AGAIN
G4888	GJ125E.SSI AWARDED THEN
G4894	GJ125G.STILL RECEIVING BENEFITS
HRS 2002:	
HM032	HM032 SSDI APPLICATION APPROVED
HM032F1	HM032F1 STILL RECEIVING SSDI BENEFITS
HM032F2	HM032F2 STILL RECEIVING SSDI BENEFITS
HM032N	HM032N SSDI-APPLY AGAIN
HM032Q	HM032Q SSDI-AWARD THEN
HM033	HM033 SSI APPLICATION APPROVED
HM033C1	HM033C1 STILL RECEIVING SSI BENEFITS
HM033C2	HM033C2 STILL RECEIVING SSI BENEFITS
HM033L	HM033L SSI-APPLY AGAIN
HM033P	HM033P SSI-AWARD THEN
HM037M1	HM037M1 DISABILITY PROGRAMS-1
HM037M2	HM037M2 DISABILITY PROGRAMS-2
HM037M3	HM037M3 DISABILITY PROGRAMS-3
HM040E	HM040E SSD 1ST APPL STATUS
HM040I	HM040I SSDI-AWARD THEN
HM041	HM041 SSI-AWARD THEN
HM041I	HM041I SSI-AWARD THEN
HM058	HM058 WHICH DISABILITY PROGRAM
HM645	EVER APPLY FOR SSDI
HM648	SSDI AWARDED BENEFITS
HM648F1	STILL RECEIVING SSDI BENEFITS-1
HM648N	SSDI-APPLY AGAIN
HM648Q	SSDI-AWARD THEN
HM651	EVER APPLY FOR SSI
HM654	SSI AWARDED BENEFITS
HM654A1	SSI START MONTH-1

HM654B1	SSI START YEAR-1
HM654C1	STILL RECEIVING SSI BENEFITS-1
HM654J	SSI-APPLY AGAIN
HM654N	SSI-AWARD THEN
HRS 2004:	
JM032	HM032 SSDI APPLICATION APPROVED
JM033	HM033 SSI APPLICATION APPROVED
JM037M1	HM037M1 DISABILITY PROGRAMS-1
JM037M2	HM037M2 DISABILITY PROGRAMS-2
JM037M3	HM037M3 DISABILITY PROGRAMS-3
JM040	HM040E SSD 1ST APPL STATUS
JM041	HM041 SSI-AWARD THEN
JM058	HM058 WHICH DISABILITY PROGRAM
JM645	HM645 EVER APPLY FOR SSDI
JM648	HM648 SSDI AWARDED BENEFITS
JM651	HM651 EVER APPLY FOR SSI
JM654	HM654 SSI AWARDED BENEFITS
JMW233S	HM654A1 SSI START MONTH-1
JMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
JMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
JMW238Q	HM648F1 STILL REC SSDI BENS-1
JMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
JMW244S	HM654I2 SSI STOP YEAR-1
JMW245B	HM041F SSI-APPLY AGAIN -1
JMW245C	HM032N SSDI-APPLY AGAIN -2
JMW245D	HM033L SSI-APPLY AGAIN -2
JMW245H	HM648N SSDI-APPLY AGAIN-1
JMW245I	HM654J SSI-APPLY AGAIN-1
JMW248A	HM040I SSDI-AWARD THEN -1
JMW248B	HM041I SSI-AWARD THEN -1
JMW248C	HM032Q SSDI-AWARD THEN -2
JMW248D	HM033P SSI-AWARD THEN -2
JMW248H	HM648Q SSDI-AWARD THEN-1
JMW248I	HM654N SSI-AWARD THEN
HRS 2006:	
KM032	HM032 SSDI APPLICATION APPROVED
KM033	HM033 SSI APPLICATION APPROVED
KM037M1	HM037M1 DISABILITY PROGRAMS-1
KM037M2	HM037M2 DISABILITY PROGRAMS-2
KM037M3	HM037M3 DISABILITY PROGRAMS-3
KM040	HM040E SSD 1ST APPL STATUS
KM041	HM041 SSI-AWARD THEN
KM058	HM058 WHICH DISABILITY PROGRAM
KM645	HM645 EVER APPLY FOR SSDI
KM648	HM648 SSDI AWARDED BENEFITS
KM651	HM651 EVER APPLY FOR SSI
KM654	HM654 SSI AWARDED BENEFITS
KMW233S	HM654A1 SSI START MONTH-1
KMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
KMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
KMW238Q	HM648F1 STILL REC SSDI BENS-1
KMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
KMW244S	HM654I2 SSI STOP YEAR-1
KMW245B	HM041F SSI-APPLY AGAIN -1
KMW245C	HM032N SSDI-APPLY AGAIN -2
KMW245D	HM033L SSI-APPLY AGAIN -2
KMW245H	HM648N SSDI-APPLY AGAIN-1
KMW245I	HM654J SSI-APPLY AGAIN-1
KMW248A	HM040I SSDI-AWARD THEN -1

KMW248B	HM041I SSI-AWARD THEN -1
KMW248C	HM032Q SSDI-AWARD THEN -2
KMW248D	HM033P SSI-AWARD THEN -2
KMW248H	HM648Q SSDI-AWARD THEN-1
KMW248I	HM654N SSI-AWARD THEN
HRS 2008:	
LM032	HM032 SSDI APPLICATION APPROVED
LM033	HM033 SSI APPLICATION APPROVED
LM037M1	HM037M1 DISABILITY PROGRAMS-1
LM037M2	HM037M2 DISABILITY PROGRAMS-2
LM037M3	HM037M3 DISABILITY PROGRAMS-3
LM040	HM040E SSD 1ST APPL STATUS
LM041	HM041 SSI-AWARD THEN
LM058	HM058 WHICH DISABILITY PROGRAM
LM645	HM645 EVER APPLY FOR SSDI
LM648	HM648 SSDI AWARDED BENEFITS
LM651	HM651 EVER APPLY FOR SSI
LM654	HM654 SSI AWARDED BENEFITS
LMW233S	HM654A1 SSI START MONTH-1
LMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
LMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
LMW238Q	HM648F1 STILL REC SSDI BENS-1
LMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
LMW244S	HM654I2 SSI STOP YEAR-1
LMW245B	HM041F SSI-APPLY AGAIN -1
LMW245C	HM032N SSDI-APPLY AGAIN -2
LMW245D	HM033L SSI-APPLY AGAIN -2
LMW245H	HM648N SSDI-APPLY AGAIN-1
LMW245I	HM654J SSI-APPLY AGAIN-1
LMW248A	HM040I SSDI-AWARD THEN -1
LMW248B	HM041I SSI-AWARD THEN -1
LMW248C	HM032Q SSDI-AWARD THEN -2
LMW248D	HM033P SSI-AWARD THEN -2
LMW248H	HM648Q SSDI-AWARD THEN-1
LMW248I	HM654N SSI-AWARD THEN
HRS 2010:	
MM032	HM032 SSDI APPLICATION APPROVED
MM033	HM033 SSI APPLICATION APPROVED
MM037M1	HM037M1 DISABILITY PROGRAMS-1
MM037M2	HM037M2 DISABILITY PROGRAMS-2
MM037M3	HM037M3 DISABILITY PROGRAMS-3
MM040	HM040E SSD 1ST APPL STATUS
MM041	HM041 SSI-AWARD THEN
MM058	HM058 WHICH DISABILITY PROGRAM
MM645	HM645 EVER APPLY FOR SSDI
MM648	HM648 SSDI AWARDED BENEFITS
MM651	HM651 EVER APPLY FOR SSI
MM654	HM654 SSI AWARDED BENEFITS
MMW233S	HM654A1 SSI START MONTH-1
MMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
MMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
MMW238Q	HM648F1 STILL REC SSDI BENS-1
MMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
MMW244S	HM654I2 SSI STOP YEAR-1
MMW245B	HM041F SSI-APPLY AGAIN -1
MMW245C	HM032N SSDI-APPLY AGAIN -2
MMW245D	HM033L SSI-APPLY AGAIN -2
MMW245H	HM648N SSDI-APPLY AGAIN-1
MMW245I	HM654J SSI-APPLY AGAIN-1

MMW248A	HM040I SSDI-AWARD THEN -1
MMW248B	HM041I SSI-AWARD THEN -1
MMW248C	HM032Q SSDI-AWARD THEN -2
MMW248D	HM033P SSI-AWARD THEN -2
MMW248H	HM648Q SSDI-AWARD THEN-1
MMW248I	HM654N SSI-AWARD THEN
HRS 2012:	
NM032	HM032 SSDI APPLICATION APPROVED
NM033	HM033 SSI APPLICATION APPROVED
NM037M1	HM037M1 DISABILITY PROGRAMS-1
NM037M2	HM037M2 DISABILITY PROGRAMS-2
NM037M3	HM037M3 DISABILITY PROGRAMS-3
NM040	HM040E SSD 1ST APPL STATUS
NM041	HM041 SSI-AWARD THEN
NM058	HM058 WHICH DISABILITY PROGRAM
NM645	HM645 EVER APPLY FOR SSDI
NM648	HM648 SSDI AWARDED BENEFITS
NM651	HM651 EVER APPLY FOR SSI
NM654	HM654 SSI AWARDED BENEFITS
NMW233S	HM654A1 SSI START MONTH-1
NMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
NMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
NMW238Q	HM648F1 STILL REC SSDI BENS-1
NMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
NMW244S	HM654I2 SSI STOP YEAR-1
NMW245B	HM041F SSI-APPLY AGAIN -1
NMW245C	HM032N SSDI-APPLY AGAIN -2
NMW245D	HM033L SSI-APPLY AGAIN -2
NMW245H	HM648N SSDI-APPLY AGAIN-1
NMW245I	HM654J SSI-APPLY AGAIN-1
NMW248A	HM040I SSDI-AWARD THEN -1
NMW248B	HM041I SSI-AWARD THEN -1
NMW248C	HM032Q SSDI-AWARD THEN -2
NMW248D	HM033P SSI-AWARD THEN -2
NMW248H	HM648Q SSDI-AWARD THEN-1
NMW248I	HM654N SSI-AWARD THEN
HRS 2014:	
OM032	HM032 SSDI APPLICATION APPROVED
OM033	HM033 SSI APPLICATION APPROVED
OM037M1	HM037M1 DISABILITY PROGRAMS-1
OM037M2	HM037M2 DISABILITY PROGRAMS-2
OM037M3	HM037M3 DISABILITY PROGRAMS-3
OM040	HM040E SSD 1ST APPL STATUS
OM041	HM041 SSI-AWARD THEN
OM058	HM058 WHICH DISABILITY PROGRAM
OM645	HM645 EVER APPLY FOR SSDI
OM648	HM648 SSDI AWARDED BENEFITS
OM651	HM651 EVER APPLY FOR SSI
OM654	HM654 SSI AWARDED BENEFITS
OMW233S	HM654A1 SSI START MONTH-1
OMW238C	HM032F1 STILL RECEIVING SSDI BENEFITS -2
OMW238D	HM033C1 STILL RECEIVING SSI BENEFITS -2
OMW238Q	HM648F1 STILL REC SSDI BENS-1
OMW238S	HM654C1 STILL RECEIVING SSI BENEFITS-1
OMW244S	HM654I2 SSI STOP YEAR-1
OMW245B	HM041F SSI-APPLY AGAIN -1
OMW245C	HM032N SSDI-APPLY AGAIN -2
OMW245D	HM033L SSI-APPLY AGAIN -2
OMW245H	HM648N SSDI-APPLY AGAIN-1

OMW245I	HM654J SSI-APPLY AGAIN-1
OMW248A	HM040I SSDI-AWARD THEN -1
OMW248B	HM041I SSI-AWARD THEN -1
OMW248C	HM032Q SSDI-AWARD THEN -2
OMW248D	HM033P SSI-AWARD THEN -2
OMW248H	HM648Q SSDI-AWARD THEN-1
OMW248I	HM654N SSI-AWARD THEN

<b>Respondent is Receiving SSDI (Each Wave)</b>
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Wave	Variable	Label	Type
1	R1SSDI	R1SSDI:W1 R IS RECEIVING SSDI	Categ
2	R2SSDI	R2SSDI:W2 R IS RECEIVING SSDI	Categ
3	R3SSDI	R3SSDI:W3 R IS RECEIVING SSDI	Categ
4	R4SSDI	R4SSDI:W4 R IS RECEIVING SSDI	Categ
5	R5SSDI	R5SSDI:W5 R IS RECEIVING SSDI	Categ
6	R6SSDI	R6SSDI:W6 R IS RECEIVING SSDI	Categ
7	R7SSDI	R7SSDI:W7 R IS RECEIVING SSDI	Categ
8	R8SSDI	R8SSDI:W8 R IS RECEIVING SSDI	Categ
9	R9SSDI	R9SSDI:W9 R IS RECEIVING SSDI	Categ
10	R10SSDI	R10SSDI:W10 R IS RECEIVING SSDI	Categ
11	R11SSDI	R11SSDI:W11 R IS RECEIVING SSDI	Categ
12	R12SSDI	R12SSDI:W12 R IS RECEIVING SSDI	Categ
1	S1SSDI	S1SSDI:W1 S IS RECEIVING SSDI	Categ
2	S2SSDI	S2SSDI:W2 S IS RECEIVING SSDI	Categ
3	S3SSDI	S3SSDI:W3 S IS RECEIVING SSDI	Categ
4	S4SSDI	S4SSDI:W4 S IS RECEIVING SSDI	Categ
5	S5SSDI	S5SSDI:W5 S IS RECEIVING SSDI	Categ
6	S6SSDI	S6SSDI:W6 S IS RECEIVING SSDI	Categ
7	S7SSDI	S7SSDI:W7 S IS RECEIVING SSDI	Categ
8	S8SSDI	S8SSDI:W8 S IS RECEIVING SSDI	Categ
9	S9SSDI	S9SSDI:W9 S IS RECEIVING SSDI	Categ
10	S10SSDI	S10SSDI:W10 S IS RECEIVING SSDI	Categ
11	S11SSDI	S11SSDI:W11 S IS RECEIVING SSDI	Categ
12	S12SSDI	S12SSDI:W12 S IS RECEIVING SSDI	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SSDI	12652	0.04	0.21	0.0	1.0
R2SSDI	19642	0.04	0.19	0.0	1.0
R3SSDI	17991	0.04	0.20	0.0	1.0
R4SSDI	21384	0.04	0.19	0.0	1.0
R5SSDI	19579	0.04	0.19	0.0	1.0
R6SSDI	18165	0.04	0.21	0.0	1.0
R7SSDI	20129	0.05	0.21	0.0	1.0
R8SSDI	18469	0.05	0.21	0.0	1.0
R9SSDI	17217	0.05	0.21	0.0	1.0
R10SSDI	22034	0.06	0.24	0.0	1.0
R11SSDI	20554	0.06	0.25	0.0	1.0
R12SSDI	18747	0.07	0.25	0.0	1.0
S1SSDI	9900	0.04	0.19	0.0	1.0
S2SSDI	13088	0.03	0.18	0.0	1.0
S3SSDI	11915	0.04	0.19	0.0	1.0
S4SSDI	13978	0.03	0.18	0.0	1.0
S5SSDI	12730	0.03	0.18	0.0	1.0
S6SSDI	11639	0.04	0.20	0.0	1.0
S7SSDI	12972	0.04	0.19	0.0	1.0
S8SSDI	11735	0.04	0.20	0.0	1.0
S9SSDI	10646	0.04	0.20	0.0	1.0
S10SSDI	13513	0.05	0.22	0.0	1.0
S11SSDI	12488	0.05	0.22	0.0	1.0
S12SSDI	11027	0.06	0.23	0.0	1.0



## Categorical Variable Codes

Value	R1SSDI	R2SSDI	R3SSDI	R4SSDI	R5SSDI	R6SSDI	R7SSDI
0.No	12089	18911	17235	20622	18853	17352	19219
1.Yes	563	731	756	762	726	813	910

Value	R8SSDI	R9SSDI	R10SSDI	R11SSDI	R12SSDI
0.No	17589	16442	20646	19223	17450
1.Yes	880	775	1388	1331	1297

Value	S1SSDI	S2SSDI	S3SSDI	S4SSDI	S5SSDI	S6SSDI	S7SSDI
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	9523	12645	11489	13511	12287	11139	12462
1.Yes	377	443	426	467	443	500	510

Value	S8SSDI	S9SSDI	S10SSDI	S11SSDI	S12SSDI
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11220	10218	12831	11846	10420
1.Yes	515	428	682	642	607

## How Constructed

RwSSDI indicates whether a Respondent is receiving benefits from Social Security Disability Insurance (SSDI) at Wave "w." It is derived from RwDSTAT (SSDI, SSI Status, from Disability section) and RwIOSDI (Receives SSDI, See the RAND HRS Detailed Imputations File Codebook, available on the HRS website <http://hrsonline.isr.umich.edu>).

RwSSDI is set to yes (=1) if RwDSTAT equals "20.Receiving SSDI", "21.Receiving SSDI/Applying SSI", or "22.Receiving SSDI and SSI." We do not assign RwSSDI to be yes if we cannot determine which program is involved. For more information, please refer to the documentation for RwDSTAT.

RwSSDI is also set to yes (=1) if RwIOSDI is "1.Receives Income from SSDI." This variable does include imputed values. The imputation flag RwIFSDI indicates whether the component is imputed, and if so, how much information is available for imputation. For more information about RwIOSDI and RwIFSDI, please refer to the RAND HRS Detailed Imputations File Codebook, available on the HRS website <http://hrsonline.isr.umich.edu>.

SwSSDI indicates whether the Respondent's spouse is receiving benefits from SSDI at Wave "w." It is taken from the spouse's self-reported RwSSDI for Wave "w."

For more detailed information on disability applications and benefit receipt, please see the "SSDI/SSI Disability Episodes" variables.

## Cross Wave Differences in Original HRS Data

The Disability section of the HRS asks questions about whether the Respondent has applied for disability benefits from Social Security Disability Insurance (SSDI) or Supplemental Security Income (SSI) in every wave. Before Wave 5, the questions ask about the two programs together. From Wave 5 forward, the questions ask about the programs separately. If we cannot determine which disability program is involved, RwSSDI is not set to yes.

The Assets and Income section of the HRS also asks questions about whether the Respondent has applied for SSDI in every wave. Receipt of benefits in the Assets and Income section are based on the last calendar year, unlike the Disability section, where benefits are reported from the Respondent's last interview.

<b>SSDI, SSI Amount Receiving (Each Wave)</b>
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Wave	Variable	Label	Type
5	R5DSSAMT	R5DSSAMT:W5 AMT RECEIVED LAST MONTH SSDI	Cont
6	R6DSSAMT	R6DSSAMT:W6 AMT RECEIVED LAST MONTH SSDI	Cont
7	R7DSSAMT	R7DSSAMT:W7 AMT RECEIVED LAST MONTH SSDI	Cont
8	R8DSSAMT	R8DSSAMT:W8 AMT RECEIVED LAST MONTH SSDI	Cont
9	R9DSSAMT	R9DSSAMT:W9 AMT RECEIVED LAST MONTH SSDI	Cont
10	R10DSSAMT	R10DSSAMT:W10 AMT RECEIVED LAST MONTH SSDI	Cont
11	R11DSSAMT	R11DSSAMT:W11 AMT RECEIVED LAST MONTH SSDI	Cont
12	R12DSSAMT	R12DSSAMT:W12 AMT RECEIVED LAST MONTH SSDI	Cont
5	S5DSSAMT	S5DSSAMT:W5 AMT RECEIVED LAST MONTH SSDI	Cont
6	S6DSSAMT	S6DSSAMT:W6 AMT RECEIVED LAST MONTH SSDI	Cont
7	S7DSSAMT	S7DSSAMT:W7 AMT RECEIVED LAST MONTH SSDI	Cont
8	S8DSSAMT	S8DSSAMT:W8 AMT RECEIVED LAST MONTH SSDI	Cont
9	S9DSSAMT	S9DSSAMT:W9 AMT RECEIVED LAST MONTH SSDI	Cont
10	S10DSSAMT	S10DSSAMT:W10 AMT RECEIVED LAST MONTH SSDI	Cont
11	S11DSSAMT	S11DSSAMT:W11 AMT RECEIVED LAST MONTH SSDI	Cont
12	S12DSSAMT	S12DSSAMT:W12 AMT RECEIVED LAST MONTH SSDI	Cont
5	R5DSIAMT	R5DSIAMT:W5 AMT RECEIVED LAST MONTH SSI	Cont
6	R6DSIAMT	R6DSIAMT:W6 AMT RECEIVED LAST MONTH SSI	Cont
7	R7DSIAMT	R7DSIAMT:W7 AMT RECEIVED LAST MONTH SSI	Cont
8	R8DSIAMT	R8DSIAMT:W8 AMT RECEIVED LAST MONTH SSI	Cont
9	R9DSIAMT	R9DSIAMT:W9 AMT RECEIVED LAST MONTH SSI	Cont
10	R10DSIAMT	R10DSIAMT:W10 AMT RECEIVED LAST MONTH SSI	Cont
11	R11DSIAMT	R11DSIAMT:W11 AMT RECEIVED LAST MONTH SSI	Cont
12	R12DSIAMT	R12DSIAMT:W12 AMT RECEIVED LAST MONTH SSI	Cont
5	S5DSIAMT	S5DSIAMT:W5 AMT RECEIVED LAST MONTH SSI	Cont
6	S6DSIAMT	S6DSIAMT:W6 AMT RECEIVED LAST MONTH SSI	Cont
7	S7DSIAMT	S7DSIAMT:W7 AMT RECEIVED LAST MONTH SSI	Cont
8	S8DSIAMT	S8DSIAMT:W8 AMT RECEIVED LAST MONTH SSI	Cont
9	S9DSIAMT	S9DSIAMT:W9 AMT RECEIVED LAST MONTH SSI	Cont
10	S10DSIAMT	S10DSIAMT:W10 AMT RECEIVED LAST MONTH SSI	Cont
11	S11DSIAMT	S11DSIAMT:W11 AMT RECEIVED LAST MONTH SSI	Cont
12	S12DSIAMT	S12DSIAMT:W12 AMT RECEIVED LAST MONTH SSI	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R5DSSAMT	686	684.92	328.92	0.0	1744.0
R6DSSAMT	770	755.57	352.62	0.0	3000.0
R7DSSAMT	685	817.51	439.43	0.0	7000.0
R8DSSAMT	746	860.40	396.43	0.0	2800.0
R9DSSAMT	636	913.06	429.57	0.0	3200.0
R10DSSAMT	1189	946.20	436.50	0.0	3500.0
R11DSSAMT	1091	1025.79	533.95	0.0	6000.0
R12DSSAMT	1062	1054.69	529.50	0.0	8250.0
S5DSSAMT	415	725.75	340.68	0.0	1744.0
S6DSSAMT	490	795.79	375.22	0.0	3000.0
S7DSSAMT	387	880.72	496.79	0.0	7000.0
S8DSSAMT	452	913.54	415.46	0.0	2800.0
S9DSSAMT	366	962.83	444.35	0.0	3200.0
S10DSSAMT	591	980.23	479.06	0.0	3500.0
S11DSSAMT	543	1078.45	550.85	0.0	4187.0
S12DSSAMT	502	1127.88	627.23	0.0	8250.0
R5DSIAMT	298	376.20	244.77	0.0	1384.0

R6DSIAMT	292	374.00	275.88	0.0	1900.0
R7DSIAMT	252	415.96	266.54	0.0	1667.0
R8DSIAMT	272	454.18	313.53	0.0	2000.0
R9DSIAMT	247	507.31	339.40	0.0	1800.0
R10DSIAMT	453	558.81	579.02	0.0	9996.0
R11DSIAMT	464	582.35	484.10	0.0	5000.0
R12DSIAMT	407	551.07	443.55	0.0	6000.0
S5DSIAMT	86	387.78	268.60	0.0	1384.0
S6DSIAMT	94	396.49	335.26	0.0	1900.0
S7DSIAMT	77	398.66	281.19	8.0	1667.0
S8DSIAMT	90	433.29	371.35	0.0	2000.0
S9DSIAMT	87	523.84	392.47	4.0	1800.0
S10DSIAMT	160	593.26	863.04	0.0	9996.0
S11DSIAMT	167	610.34	617.81	0.0	5000.0
S12DSIAMT	144	588.90	550.59	0.0	6000.0

## How Constructed

RwDSSAMT is the amount a Respondent reports receiving from Social Security Disability Insurance (SSDI) at Wave "w." RwDSIAMT is the amount a Respondent reports receiving from Supplemental Security Income (SSI) disability at Wave "w." These variables are available beginning in Wave 5. They are simply taken from the amounts reported in the raw data and recoded for missing values. Please note a respondent reports a value for R10DSIAMT of 9996. While this is close in proximity to raw variable special missing values of 9998 and 9999, 9996 is a possible valid value and has been verified by HRS.

A Respondent may be receiving benefits from either program or both. A separate variable RwDSTAT indicates whether a Respondent is receiving benefits at Wave "w." Please see "SSDI/SSI Status" for information on the RwDSTAT variables. If benefits ended between the current and prior interview, the amount reported is for the last month when benefits were received.

SwDSSAMT and SwDSIAMT are the amounts the Respondent's spouse is receiving from, respectively, SSDI and SSI, at Wave "w." It is taken from the spouse's self-reported RwDSSAMT and RwDSIAMT for Wave "w."

For more detailed information on disability applications and benefit receipt please see the "SSDI/SSI Disability Episodes" variables.

## Cross Wave Differences in Original HRS Data

The Disability section of the HRS asks questions about whether the Respondent has applied for disability benefits from Social Security Disability Insurance (SSDI) or Supplemental Security Income (SSI) in every wave. Before Wave 5, the questions ask about the two programs together. From Wave 5 forward, the questions ask about the programs separately.

Beginning in Wave 5, Respondents who are receiving SSDI or SSI benefits are asked how much they receive each month. If they report benefits have stopped, they are asked how much they received in the last month that they received benefits. Beginning in Wave 7, it is also recorded whether an SSDI benefit has converted to Social Security (OASDI). Those who converted to Social Security have SSDI as their disability type, and the amount they received for disability is for their last month with SSDI.

**HRS Variables Used**

HRS 2000:  
   G4375                   GD18AB. SSDI AMOUNT REC`D  
   G4384                   GD18BB. SSI AMOUNT REC`D  
   G4397                   GD18CH. SSDI AMOUNT REC`D  
   G4410                   GD18DM. SSDI AMOUNT REC`D  
   G4417                   GD18EE. SSI AMOUNT REC`D  
   G4427                   GD18ER. SSI AMOUNT REC`D  
   G4467                   GD26H.SSD AMOUNT REC`D  
   G4485                   GD27H.SSI AMOUNT REC`D  
   G4876                   GJ123JA. SSDI BENEFITS AMOUNT REC`D  
   G4895                   GJ125H. SSI BENEFITS AMOUNT REC`D  
 HRS 2002:  
   HM030G1                HM030G1 SSDI AMOUNT REC\_D  
   HM030G2                HM030G2 SSI AMOUNT REC\_D  
   HM032G1                HM032G1 SSDI AMOUNT REC\_D  
   HM032G2                HM032G2 SSDI AMOUNT REC\_D  
   HM033D1                HM033D1 SSI AMOUNT REC\_D  
   HM033D2                HM033D2 SSI AMOUNT REC\_D  
   HM040Q                 HM040Q SSDI AMOUNT REC\_D  
   HM041N                 HM041N SSI AMOUNT REC\_D  
   HM648G1                SSDI AMOUNT RECEIVED-1  
   HM654D1                SSI AMOUNT RECEIVED-1  
 HRS 2004:  
   JMW239A                HM040Q SSDI AMOUNT REC\_D -1  
   JMW239B                HM030G2 SSI AMOUNT REC\_D -1  
   JMW239C                HM032G1 SSDI AMOUNT REC\_D -2  
   JMW239D                HM033D1 SSI AMOUNT REC\_D -2  
   JMW239I                HM030G1 SSDI AMOUNT REC\_D -3  
   JMW239J                HM041N SSI AMOUNT REC\_D -3  
   JMW239Q                HM648G1 SSDI AMOUNT RECEIVED-1  
   JMW239S                HM654D1 SSI AMOUNT RECEIVED-1  
 HRS 2006:  
   KMW239A                HM040Q SSDI AMOUNT REC\_D -1  
   KMW239B                HM030G2 SSI AMOUNT REC\_D -1  
   KMW239C                HM032G1 SSDI AMOUNT REC\_D -2  
   KMW239D                HM033D1 SSI AMOUNT REC\_D -2  
   KMW239I                HM030G1 SSDI AMOUNT REC\_D -3  
   KMW239J                HM041N SSI AMOUNT REC\_D -3  
   KMW239Q                HM648G1 SSDI AMOUNT RECEIVED-1  
   KMW239S                HM654D1 SSI AMOUNT RECEIVED-1  
 HRS 2008:  
   LMW239A                HM040Q SSDI AMOUNT REC\_D -1  
   LMW239B                HM030G2 SSI AMOUNT REC\_D -1  
   LMW239C                HM032G1 SSDI AMOUNT REC\_D -2  
   LMW239D                HM033D1 SSI AMOUNT REC\_D -2  
   LMW239I                HM030G1 SSDI AMOUNT REC\_D -3  
   LMW239J                HM041N SSI AMOUNT REC\_D -3  
   LMW239Q                HM648G1 SSDI AMOUNT RECEIVED-1  
   LMW239S                HM654D1 SSI AMOUNT RECEIVED-1  
 HRS 2010:  
   MMW239A                HM040Q SSDI AMOUNT REC\_D -1  
   MMW239B                HM030G2 SSI AMOUNT REC\_D -1  
   MMW239C                HM032G1 SSDI AMOUNT REC\_D -2  
   MMW239D                HM033D1 SSI AMOUNT REC\_D -2  
   MMW239I                HM030G1 SSDI AMOUNT REC\_D -3  
   MMW239J                HM041N SSI AMOUNT REC\_D -3  
   MMW239Q                HM648G1 SSDI AMOUNT RECEIVED-1  
   MMW239S                HM654D1 SSI AMOUNT RECEIVED-1

## HRS 2012:

NMW239A	HM040Q SSDI AMOUNT REC_D -1
NMW239B	HM030G2 SSI AMOUNT REC_D -1
NMW239C	HM032G1 SSDI AMOUNT REC_D -2
NMW239D	HM033D1 SSI AMOUNT REC_D -2
NMW239I	HM030G1 SSDI AMOUNT REC_D -3
NMW239J	HM041N SSI AMOUNT REC_D -3
NMW239Q	HM648G1 SSDI AMOUNT RECEIVED-1
NMW239S	HM654D1 SSI AMOUNT RECEIVED-1

## HRS 2014:

OMW239A	HM040Q SSDI AMOUNT REC_D -1
OMW239B	HM030G2 SSI AMOUNT REC_D -1
OMW239C	HM032G1 SSDI AMOUNT REC_D -2
OMW239D	HM033D1 SSI AMOUNT REC_D -2
OMW239I	HM030G1 SSDI AMOUNT REC_D -3
OMW239J	HM041N SSI AMOUNT REC_D -3
OMW239Q	HM648G1 SSDI AMOUNT RECEIVED-1
OMW239S	HM654D1 SSI AMOUNT RECEIVED-1

<b>Predicted SS wealth of Pre-retirees</b>
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Wave	Variable	Label	Type
1	H1SSWRER	H1SSWRER:W1 Total household SS wealth, all claiming at 62	Cont
4	H4SSWRER	H4SSWRER:W4 Total household SS wealth, all claiming at 62	Cont
7	H7SSWRER	H7SSWRER:W7 Total household SS wealth, all claiming at 62	Cont
10	H10SSWRER	H10SSWRER:W10 Total household SS wealth, all claiming at 62	Cont
1	R1SSWRER	R1SSWRER:W1 R SS wealth based on own earnings, claiming at 62	Cont
4	R4SSWRER	R4SSWRER:W4 R SS wealth based on own earnings, claiming at 62	Cont
7	R7SSWRER	R7SSWRER:W7 R SS wealth based on own earnings, claiming at 62	Cont
10	R10SSWRER	R10SSWRER:W10 R SS wealth based on own earnings, claiming at 62	Cont
1	S1SSWRER	S1SSWRER:W1 S SS wealth based on own earnings, claiming at 62	Cont
4	S4SSWRER	S4SSWRER:W4 S SS wealth based on own earnings, claiming at 62	Cont
7	S7SSWRER	S7SSWRER:W7 S SS wealth based on own earnings, claiming at 62	Cont
10	S10SSWRER	S10SSWRER:W10 S SS wealth based on own earnings, claiming at 62	Cont
1	H1SSWRNR	H1SSWRNR:W1 Total household SS wealth, all claiming at NRA	Cont
4	H4SSWRNR	H4SSWRNR:W4 Total household SS wealth, all claiming at NRA	Cont
7	H7SSWRNR	H7SSWRNR:W7 Total household SS wealth, all claiming at NRA	Cont
10	H10SSWRNR	H10SSWRNR:W10 Total household SS wealth, all claiming at NRA	Cont
1	R1SSWRNR	R1SSWRNR:W1 R SS wealth based on own earnings, claiming at NRA	Cont
4	R4SSWRNR	R4SSWRNR:W4 R SS wealth based on own earnings, claiming at NRA	Cont
7	R7SSWRNR	R7SSWRNR:W7 R SS wealth based on own earnings, claiming at NRA	Cont
10	R10SSWRNR	R10SSWRNR:W10 R SS wealth based on own earnings, claiming at N	Cont
1	S1SSWRNR	S1SSWRNR:W1 S SS wealth based on own earnings, claiming at NRA	Cont
4	S4SSWRNR	S4SSWRNR:W4 S SS wealth based on own earnings, claiming at NRA	Cont
7	S7SSWRNR	S7SSWRNR:W7 S SS wealth based on own earnings, claiming at NRA	Cont
10	S10SSWRNR	S10SSWRNR:W10 S SS wealth based on own earnings, claiming at N	Cont
1	H1SSWRXA	H1SSWRXA:W1 Total household SS wealth, all claiming at 70	Cont
4	H4SSWRXA	H4SSWRXA:W4 Total household SS wealth, all claiming at 70	Cont
7	H7SSWRXA	H7SSWRXA:W7 Total household SS wealth, all claiming at 70	Cont
10	H10SSWRXA	H10SSWRXA:W10 Total household SS wealth, all claiming at 70	Cont
1	R1SSWRXA	R1SSWRXA:W1 R SS wealth based on own earnings, claiming at 70	Cont
4	R4SSWRXA	R4SSWRXA:W4 R SS wealth based on own earnings, claiming at 70	Cont
7	R7SSWRXA	R7SSWRXA:W7 R SS wealth based on own earnings, claiming at 70	Cont
10	R10SSWRXA	R10SSWRXA:W10 R SS wealth based on own earnings, claiming at 70	Cont
1	S1SSWRXA	S1SSWRXA:W1 S SS wealth based on own earnings, claiming at 70	Cont
4	S4SSWRXA	S4SSWRXA:W4 S SS wealth based on own earnings, claiming at 70	Cont
7	S7SSWRXA	S7SSWRXA:W7 S SS wealth based on own earnings, claiming at 70	Cont
10	S10SSWRXA	S10SSWRXA:W10 S SS wealth based on own earnings, claiming at 70	Cont
1	R1CLAIMED	R1CLAIMED:W1 R already claiming SS benefits	Categ
4	R4CLAIMED	R4CLAIMED:W4 R already claiming SS benefits	Categ
7	R7CLAIMED	R7CLAIMED:W7 R already claiming SS benefits	Categ
10	R10CLAIMED	R10CLAIMED:W10 R already claiming SS benefits	Categ
1	S1CLAIMED	S1CLAIMED:W1 S already claiming SS benefits	Categ
4	S4CLAIMED	S4CLAIMED:W4 S already claiming SS benefits	Categ
7	S7CLAIMED	S7CLAIMED:W7 S already claiming SS benefits	Categ
10	S10CLAIMED	S10CLAIMED:W10 S already claiming SS benefits	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1SSWRER	12651	132684.89	74056.78	0.0	306000.0
H4SSWRER	22860	53703.94	81403.47	0.0	361600.0

H7SSWRER	21815	66817.09	109032.81	0.0	487400.0
H10SSWRER	10625	199236.01	141047.82	0.0	738100.0
R1SSWRER	10689	77037.63	37867.15	0.0	181700.0
R4SSWRER	8157	84558.34	43525.46	0.0	200400.0
R7SSWRER	6831	112040.27	60095.97	0.0	329000.0
R10SSWRER	9027	130875.32	73610.87	0.0	280900.0
S1SSWRER	8216	78285.94	37854.74	0.0	181700.0
S4SSWRER	4670	88831.24	43790.48	0.0	200400.0
S7SSWRER	5045	114668.50	59640.66	0.0	329000.0
S10SSWRER	5415	16988.24	31039.94	0.0	145600.0
H1SSWRNR	12651	150827.73	80658.84	0.0	385900.0
H4SSWRNR	22860	70537.88	95157.64	0.0	413800.0
H7SSWRNR	21815	93107.57	131082.80	0.0	612900.0
H10SSWRNR	10625	235958.07	145774.41	0.0	936700.0
R1SSWRNR	11088	80153.21	40438.75	0.0	215700.0
R4SSWRNR	9584	95013.17	47408.85	0.0	251000.0
R7SSWRNR	8402	122763.04	64446.90	0.0	347700.0
R10SSWRNR	10178	141186.63	81306.38	0.0	313700.0
S1SSWRNR	8600	81554.49	40363.56	0.0	215700.0
S4SSWRNR	5462	99106.77	47380.87	0.0	232000.0
S7SSWRNR	6061	124665.42	63647.81	0.0	347700.0
S10SSWRNR	5849	15809.45	27684.46	0.0	128800.0
H1SSWRXA	12651	153945.25	78306.39	0.0	400200.0
H4SSWRXA	22860	86470.80	99923.44	0.0	469400.0
H7SSWRXA	21815	113671.84	140697.68	0.0	605300.0
H10SSWRXA	10625	244740.14	143579.64	0.0	915700.0
R1SSWRXA	11336	77840.26	36609.72	0.0	200100.0
R4SSWRXA	11477	92332.26	45878.87	0.0	236900.0
R7SSWRXA	9982	123940.73	64096.28	0.0	351900.0
R10SSWRXA	10625	142261.73	83591.32	0.0	319400.0
S1SSWRXA	8831	78799.30	36138.50	0.0	198000.0
S4SSWRXA	6324	94947.87	44557.06	0.0	235500.0
S7SSWRXA	6983	125609.67	62804.69	0.0	351900.0
S10SSWRXA	5982	15090.79	25617.83	0.0	117400.0
R1CLAIMED	12651	0.02	0.14	0.0	1.0
R4CLAIMED	22860	0.08	0.28	0.0	1.0
R7CLAIMED	21815	0.17	0.38	0.0	1.0
R10CLAIMED	22032	0.52	0.50	0.0	1.0
S1CLAIMED	12651	0.02	0.14	0.0	1.0
S4CLAIMED	22860	0.05	0.21	0.0	1.0
S7CLAIMED	21815	0.13	0.33	0.0	1.0
S10CLAIMED	11518	0.48	0.50	0.0	1.0



## Categorical Variable Codes

Value	R1CLAIMED	R4CLAIMED	R7CLAIMED
.M=Oth missing	1		
0.No	12399	20933	18056
1.Yes	252	1927	3759

Value	R10CLAIMED
.M=Oth missing	2
0.No	10625
1.Yes	11407

Value	S1CLAIMED	S4CLAIMED	S7CLAIMED
.M=Oth missing	1		
0.No	12400	21769	19077
1.Yes	251	1091	2738

Value	S10CLAIMED
.M=Oth missing	2848
.U=Unmarried	7668
0.No	5982
1.Yes	5536

## How Constructed

The Prospective Social Security Wealth Measures of Pre-Retirees are taken directly from the HRS Prospective Social Security Wealth Measures of Pre-Retirees File (v.5.0) and the Prospective Social Security Wealth Measures of Pre-Retirees Wave 10 File (v.1.0).

These measures are constructed from the Employment sections of the HRS 1992 (Wave 1), HRS 1998 (Wave 4), HRS 2004 (Wave 7), and HRS 2010 (Wave 10) and are only calculated for individuals who have not yet retired (as evidenced by claiming SS benefits). Analysts interested in SS wealth for current retirees should apply for access to the restricted version of the SS wealth file from HRS directly.

Please refer to the Prospective Social Security Wealth Measures of Pre-Retirees documentation for [Waves 1, 4, and 7](#) and [Wave 10](#) for more details.

RwSSWRER is the Respondent's predicted SS wealth based on the retirement insurance benefit and calculated based on Respondent's own earnings records, assuming a claim age of 62. SwSSWRER is the spouse's predicted SS wealth, assuming a claim age of 62.

RwSSWRNR is the Respondent's predicted SS wealth based on the retirement insurance benefit and is calculated based on Respondent's own earnings records, assuming a full retirement claim age. SwSSWRNR is the spouse's predicted SS wealth, assuming a full retirement claim age.

RwSSWRXA is the Respondent's predicted SS wealth based on the retirement insurance benefit and calculated based on own earnings records, assuming a claim age of 70. SwSSWRXA is the spouse's predicted SS wealth, assuming a claim age of 70.

HwSSWER is the sum of the Respondent's retirement insurance wealth, Respondent's incremental auxiliary spouse

benefit wealth, Respondent's incremental survivor benefit wealth, spouse's incremental retirement insurance benefit wealth, spouse's incremental auxiliary spouse benefit wealth, and spouse's incremental survivor benefit wealth, all assuming both Respondent and spouse claim at age 62.

HwSSWNR use the same summation as above, but assuming both Respondent and spouse claim at their respective full retirement ages.

HwSSWXA use the same summation as above, but assuming both Respondent and spouse claim at age 70.

RwCLAIMED is an indicator variable equal to one if the Respondent has already claimed SS benefits as of the wave date. If RwCLAIMED=1, then all Respondent retirement insurance benefit wealth variables will be missing.

**Section F: Pension**

<b>Currently receiving any pension income</b>
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Wave	Variable	Label	Type
2	R2PENINC	R2PENINC:W2 R current receiving pension income	Categ
3	R3PENINC	R3PENINC:W3 R current receiving pension income	Categ
4	R4PENINC	R4PENINC:W4 R current receiving pension income	Categ
5	R5PENINC	R5PENINC:W5 R current receiving pension income	Categ
6	R6PENINC	R6PENINC:W6 R current receiving pension income	Categ
7	R7PENINC	R7PENINC:W7 R current receiving pension income	Categ
8	R8PENINC	R8PENINC:W8 R current receiving pension income	Categ
9	R9PENINC	R9PENINC:W9 R current receiving pension income	Categ
10	R10PENINC	R10PENINC:W10 R current receiving pension income	Categ
11	R11PENINC	R11PENINC:W11 R current receiving pension income	Categ
12	R12PENINC	R12PENINC:W12 R current receiving pension income	Categ
2	S2PENINC	S2PENINC:W2 S current receiving pension income	Categ
3	S3PENINC	S3PENINC:W3 S current receiving pension income	Categ
4	S4PENINC	S4PENINC:W4 S current receiving pension income	Categ
5	S5PENINC	S5PENINC:W5 S current receiving pension income	Categ
6	S6PENINC	S6PENINC:W6 S current receiving pension income	Categ
7	S7PENINC	S7PENINC:W7 S current receiving pension income	Categ
8	S8PENINC	S8PENINC:W8 S current receiving pension income	Categ
9	S9PENINC	S9PENINC:W9 S current receiving pension income	Categ
10	S10PENINC	S10PENINC:W10 S current receiving pension income	Categ
11	S11PENINC	S11PENINC:W11 S current receiving pension income	Categ
12	S12PENINC	S12PENINC:W12 S current receiving pension income	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2PENINC	11272	0.16	0.36	0.0	1.0
R3PENINC	17735	0.27	0.44	0.0	1.0
R4PENINC	20963	0.26	0.44	0.0	1.0
R5PENINC	19239	0.29	0.46	0.0	1.0
R6PENINC	17879	0.30	0.46	0.0	1.0
R7PENINC	19839	0.26	0.44	0.0	1.0
R8PENINC	18225	0.27	0.45	0.0	1.0
R9PENINC	16963	0.27	0.45	0.0	1.0
R10PENINC	21396	0.19	0.39	0.0	1.0
R11PENINC	20199	0.22	0.42	0.0	1.0
R12PENINC	18366	0.24	0.43	0.0	1.0
S2PENINC	9013	0.16	0.37	0.0	1.0
S3PENINC	12229	0.24	0.43	0.0	1.0
S4PENINC	14214	0.24	0.42	0.0	1.0
S5PENINC	12849	0.26	0.44	0.0	1.0
S6PENINC	11690	0.27	0.44	0.0	1.0
S7PENINC	13176	0.23	0.42	0.0	1.0
S8PENINC	11898	0.24	0.43	0.0	1.0
S9PENINC	10841	0.24	0.43	0.0	1.0
S10PENINC	13786	0.16	0.37	0.0	1.0
S11PENINC	12842	0.11	0.32	0.0	1.0
S12PENINC	11366	0.15	0.35	0.0	1.0

## Categorical Variable Codes

Value	R2PENINC	R3PENINC	R4PENINC	R5PENINC	R6PENINC	R7PENINC
.D=DK/NA		25	27	39	40	60
.M=Oth missing	148	149	219	139	47	90
.Q=Not asked this wv	8222					
.R=RF		82	175	162	199	140
0.No	9508	12976	15409	13564	12517	14616
1.Yes	1764	4759	5554	5675	5362	5223

Value	R8PENINC	R9PENINC	R10PENINC	R11PENINC	R12PENINC
.D=DK/NA	37	43	47	43	56
.M=Oth missing	65	76	420	172	199
.R=RF	142	135	171	140	126
0.No	13260	12303	17374	15710	13994
1.Yes	4965	4660	4022	4489	4372

Value	S2PENINC	S3PENINC	S4PENINC	S5PENINC	S6PENINC	S7PENINC
.D=DK/NA		11	13	18	13	21
.M=Oth missing	110	106	194	94	38	77
.Q=Not asked this wv	4549					
.R=RF		51	118	103	133	93
.U=Unmarried	5970	5594	6845	6515	6291	6762
0.No	7585	9266	10864	9469	8552	10140
1.Yes	1428	2963	3350	3380	3138	3036

Value	S8PENINC	S9PENINC	S10PENINC	S11PENINC	S12PENINC
.D=DK/NA	14	17	17	22	23
.M=Oth missing	52	63	329	146	160
.R=RF	90	92	109	73	74
.U=Unmarried	6415	6204	7793	7471	7124
0.No	9020	8187	11553	11384	9687
1.Yes	2878	2654	2233	1458	1679

## General Comments

For Waves 1-10, receipt of pension income variables are based on information given about pensions in the Assets and Income section and do not consider information given about past pensions in the Employment section. The relevant pension questions are reported at the household-level and are asked only of the Financial Respondent about the Financial Respondent's pension income and, if married, the Financial Respondent's spouse's pension income. Adjustments are made when these measures are merged to the Respondent level, depending on whether the Respondent is the Financial Respondent or not. If the Respondent is the Financial Respondent, then measures concerning the Financial Respondent are assigned to the Respondent and those about the Financial Respondent's spouse are assigned to the Respondent's spouse. But if the Respondent is not the Financial Respondent, then measures about the Financial Respondent are assigned to the Respondent's spouse and those concerning the Financial Respondent's spouse are assigned to the Respondent.

Beginning in Wave 11, the questionnaire introduced a stand-alone Pension section, and information from this section is used to generate pension income variables when information from the Assets and Income section is not available. In the Pension section, relevant questions are reported at the pension level and are asked of both Financial and non-Financial Respondents who are currently working or who have previously reported having employer-provided pension plans.

## How Constructed

RwPENINC indicates whether the Respondent is currently receiving any pension income. SwPENINC provides the information for the Respondent's spouse or partner.

In Wave 2H and from Wave 3 forward, if the Respondent or both the Respondent and spouse/partner are currently receiving pension income, then RwPENINC is set to yes (=1). If no one or only the spouse/partner is receiving pension income, then RwPENINC is set to no (=0).

Beginning in Wave 11, information from the standalone Pension section is incorporated for Respondents who do not have available information in the Assets and Income Section. Using data from the Pension section, RwPENINC is set to yes (=1) if the Respondent indicates that s/he receives any income from up to ten individual pension plans. If the Respondent does not indicate receiving income from any plans, RwPENINC is set to no (=0).

Otherwise, RwPENINC is set to a missing value based on missing values in HRS variables.

If the spouse/partner or both are currently receiving pension income, then SwPENINC is set to yes (=1). If no one or only the Respondent is receiving pension income, then SwPENINC is set to no (=0). Otherwise, SwPENINC is set to a missing value based on missing values in HRS variables.

If the Respondent is not married, SwPENINC is set to .U=unmarried.

These variables are included to provide context to the measure about continuation of a pension after death. Since that question is not asked in Waves 1 and 2A, the measure is not included for these earlier waves at this time. See the "Whether pensions continue" section for more information.

## Cross Wave Differences in Original HRS Data

The question wording in the Assets and Income Section is consistent across waves. There are two questions that ask whether the Financial Respondent and/or spouse are currently receiving pension income.

The first question asks: "Are you (or your (husband/wife/partner)) currently receiving an income from retirement pensions?" If yes, a subsequent question asks: "Who receives that?" The answers may be "RESPONDENT ONLY," "SPOUSE/PARTNER ONLY" or "BOTH."

Beginning in Wave 11, information from the standalone Pension section is incorporated for Respondents who do not have available information in the Assets and Income section. The question, "Are you currently receiving regular payments from your [plan name]?" is asked of both the Financial and non-Financial Respondent if s/he reports having an employer-provided pension plan. The question wording is consistent in Waves 11 and 12.

## HRS Variables Used

HRS 1994:	
W6071	N20.RETIREMENT PENSIONS?
WR6072	N20a.WHO RECEIVES PENSIO/ Self
AHEAD 1995:	
D4191	J30.RET PENSION
DR4192	J30a.WHO RECD PENSION / R
HRS 1996:	
E4209	J127.RET PENSION
ER4210	J128.WHO RECD PENSION/Self

HRS 1998:  
F4969 J127.RET PENSION  
FR4970 J128.WHO RECD PENSION/Self

HRS 2000:  
G5424 J127.RET PENSION  
GR5425 J128.WHO RECD PENSION/Self

HRS 2002:  
HQ215 PENSION RETIREMENT INCOME  
HQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2004:  
JQ215 PENSION RETIREMENT INCOME  
JQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2006:  
KQ215 PENSION RETIREMENT INCOME  
KQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2008:  
LQ215 PENSION RETIREMENT INCOME  
LQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2010:  
MQ215 PENSION RETIREMENT INCOME  
MQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2012:  
NJ2W108\_1 STARTED RECEIVING ANNUITY -1\_1  
NJ2W108\_10 STARTED RECEIVING ANNUITY -1\_10  
NJ2W108\_2 STARTED RECEIVING ANNUITY -1\_2  
NJ2W108\_3 STARTED RECEIVING ANNUITY -1\_3  
NJ2W108\_4 STARTED RECEIVING ANNUITY -1\_4  
NJ2W108\_5 STARTED RECEIVING ANNUITY -1\_5  
NJ2W108\_6 STARTED RECEIVING ANNUITY -1\_6  
NJ2W108\_7 STARTED RECEIVING ANNUITY -1\_7  
NJ2W108\_8 STARTED RECEIVING ANNUITY -1\_8  
NJ2W108\_9 STARTED RECEIVING ANNUITY -1\_9  
NJ2W426\_1 RECEIVING BENEFITS -1\_1  
NJ2W426\_10 RECEIVING BENEFITS -1\_10  
NJ2W426\_2 RECEIVING BENEFITS -1\_2  
NJ2W426\_3 RECEIVING BENEFITS -1\_3  
NJ2W426\_4 RECEIVING BENEFITS -1\_4  
NJ2W426\_5 RECEIVING BENEFITS -1\_5  
NJ2W426\_6 RECEIVING BENEFITS -1\_6  
NJ2W426\_7 RECEIVING BENEFITS -1\_7  
NJ2W426\_8 RECEIVING BENEFITS -1\_8  
NJ2W426\_9 RECEIVING BENEFITS -1\_9  
NJ2W440\_1 PLAN STATUS-CONVERTED TO ANNUITY -1\_1  
NJ2W440\_10 PLAN STATUS-CONVERTED TO ANNUITY -1\_10  
NJ2W440\_2 PLAN STATUS-CONVERTED TO ANNUITY -1\_2  
NJ2W440\_3 PLAN STATUS-CONVERTED TO ANNUITY -1\_3  
NJ2W440\_4 PLAN STATUS-CONVERTED TO ANNUITY -1\_4  
NJ2W440\_5 PLAN STATUS-CONVERTED TO ANNUITY -1\_5  
NJ2W440\_6 PLAN STATUS-CONVERTED TO ANNUITY -1\_6  
NJ2W440\_7 PLAN STATUS-CONVERTED TO ANNUITY -1\_7  
NJ2W440\_8 PLAN STATUS-CONVERTED TO ANNUITY -1\_8  
NJ2W440\_9 PLAN STATUS-CONVERTED TO ANNUITY -1\_9  
NQ215 PENSION RETIREMENT INCOME  
NQR216 WHO REC PENSION RETIREMENT INC/Self

HRS 2014:  
OJ2W108\_1 STARTED RECEIVING ANNUITY\_1  
OJ2W108\_10 STARTED RECEIVING ANNUITY\_10  
OJ2W108\_2 STARTED RECEIVING ANNUITY\_2  
OJ2W108\_3 STARTED RECEIVING ANNUITY\_3

OJ2W108_4	STARTED RECEIVING ANNUITY_4
OJ2W108_5	STARTED RECEIVING ANNUITY_5
OJ2W108_6	STARTED RECEIVING ANNUITY_6
OJ2W108_7	STARTED RECEIVING ANNUITY_7
OJ2W108_8	STARTED RECEIVING ANNUITY_8
OJ2W108_9	STARTED RECEIVING ANNUITY_9
OJ2W426_1	RECEIVING BENEFITS_1
OJ2W426_10	RECEIVING BENEFITS_10
OJ2W426_2	RECEIVING BENEFITS_2
OJ2W426_3	RECEIVING BENEFITS_3
OJ2W426_4	RECEIVING BENEFITS_4
OJ2W426_5	RECEIVING BENEFITS_5
OJ2W426_6	RECEIVING BENEFITS_6
OJ2W426_7	RECEIVING BENEFITS_7
OJ2W426_8	RECEIVING BENEFITS_8
OJ2W426_9	RECEIVING BENEFITS_9
OJ2W440_1	PLAN STATUS - CONVERTED TO ANNUITY_1
OJ2W440_10	PLAN STATUS - CONVERTED TO ANNUITY_10
OJ2W440_2	PLAN STATUS - CONVERTED TO ANNUITY_2
OJ2W440_3	PLAN STATUS - CONVERTED TO ANNUITY_3
OJ2W440_4	PLAN STATUS - CONVERTED TO ANNUITY_4
OJ2W440_5	PLAN STATUS - CONVERTED TO ANNUITY_5
OJ2W440_6	PLAN STATUS - CONVERTED TO ANNUITY_6
OJ2W440_7	PLAN STATUS - CONVERTED TO ANNUITY_7
OJ2W440_8	PLAN STATUS - CONVERTED TO ANNUITY_8
OJ2W440_9	PLAN STATUS - CONVERTED TO ANNUITY_9
OQ215	PENSION RETIREMENT INCOME
OQR216	WHO REC PENSION RETIREMENT INC/Self



<b>Number of pensions currently receive</b>
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Wave	Variable	Label	Type
2	R2PENI_N	R2PENI_N:W2 # pensions R receives income	Categ
3	R3PENI_N	R3PENI_N:W3 # pensions R receives income	Categ
4	R4PENI_N	R4PENI_N:W4 # pensions R receives income	Categ
5	R5PENI_N	R5PENI_N:W5 # pensions R receives income	Categ
6	R6PENI_N	R6PENI_N:W6 # pensions R receives income	Categ
7	R7PENI_N	R7PENI_N:W7 # pensions R receives income	Categ
8	R8PENI_N	R8PENI_N:W8 # pensions R receives income	Categ
9	R9PENI_N	R9PENI_N:W9 # pensions R receives income	Categ
10	R10PENI_N	R10PENI_N:W10 # pensions R receives income	Categ
11	R11PENI_N	R11PENI_N:W11 # pensions R receives income	Categ
12	R12PENI_N	R12PENI_N:W12 # pensions R receives income	Categ
2	S2PENI_N	S2PENI_N:W2 # pensions S receives income	Categ
3	S3PENI_N	S3PENI_N:W3 # pensions S receives income	Categ
4	S4PENI_N	S4PENI_N:W4 # pensions S receives income	Categ
5	S5PENI_N	S5PENI_N:W5 # pensions S receives income	Categ
6	S6PENI_N	S6PENI_N:W6 # pensions S receives income	Categ
7	S7PENI_N	S7PENI_N:W7 # pensions S receives income	Categ
8	S8PENI_N	S8PENI_N:W8 # pensions S receives income	Categ
9	S9PENI_N	S9PENI_N:W9 # pensions S receives income	Categ
10	S10PENI_N	S10PENI_N:W10 # pensions S receives income	Categ
11	S11PENI_N	S11PENI_N:W11 # pensions S receives income	Categ
12	S12PENI_N	S12PENI_N:W12 # pensions S receives income	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2PENI_N	1757	1.12	0.36	1.0	4.0
R3PENI_N	4742	1.11	0.36	1.0	5.0
R4PENI_N	5543	1.12	0.37	1.0	4.0
R5PENI_N	5670	1.13	0.38	1.0	6.0
R6PENI_N	5357	1.13	0.37	1.0	5.0
R7PENI_N	5217	1.15	0.40	1.0	4.0
R8PENI_N	4960	1.14	0.39	1.0	4.0
R9PENI_N	4655	1.15	0.42	1.0	4.0
R10PENI_N	4011	1.19	0.45	1.0	4.0
R11PENI_N	4483	1.17	0.43	1.0	5.0
R12PENI_N	4367	1.17	0.45	1.0	5.0
S2PENI_N	1421	1.12	0.37	1.0	4.0
S3PENI_N	2952	1.11	0.36	1.0	5.0
S4PENI_N	3341	1.11	0.36	1.0	4.0
S5PENI_N	3378	1.11	0.36	1.0	4.0
S6PENI_N	3137	1.11	0.35	1.0	5.0
S7PENI_N	3033	1.14	0.39	1.0	4.0
S8PENI_N	2874	1.12	0.37	1.0	4.0
S9PENI_N	2652	1.14	0.39	1.0	4.0
S10PENI_N	2227	1.16	0.43	1.0	4.0
S11PENI_N	1733	0.96	0.56	0.0	4.0
S12PENI_N	1859	1.05	0.53	0.0	4.0

## Categorical Variable Codes

Value		R2PENI_N	R3PENI_N	R4PENI_N	R5PENI_N	R6PENI_N	R7PENI_N
.D=DK		3	11	5	1	3	
.M=Oth missing		3		2	2		4
.Q=Not asked this wv		8222					
.R=RF		1	6	4	2	2	2
.Z=Whether pen inc=no or mi		9656	13232	15830	13904	12803	14906
1		1577	4256	4954	5043	4748	4532
2		161	440	523	558	550	622
3		15	39	54	57	53	49
4		4	6	12	11	5	14
5			1			1	
6					1		

Value		R8PENI_N	R9PENI_N	R10PENI_N	R11PENI_N	R12PENI_N
.D=DK		1	2	5	3	
.M=Oth missing			2	2	1	1
.R=RF		4	1	4	2	4
.Z=Whether pen inc=no or mi		13504	12557	18012	16065	14375
1		4330	4026	3363	3822	3705
2		567	552	566	582	574
3		53	66	69	67	76
4		10	11	13	10	10
5					2	2

Value		S2PENI_N	S3PENI_N	S4PENI_N	S5PENI_N	S6PENI_N	S7PENI_N
.D=DK		3	7	4			
.M=Oth missing		3		3	1		2
.Q=Not asked this wv		4549					
.R=RF		1	4	2	1	1	1
.U=Unmarried		5970	5594	6845	6515	6291	6762
.Z=Whether pen inc=no or mi		7695	9434	11189	9684	8736	10331
1		1268	2669	3026	3054	2816	2660
2		136	249	275	285	291	336
3		14	29	35	33	27	29
4		3	4	5	6	2	8
5			1			1	

Value		S8PENI_N	S9PENI_N	S10PENI_N	S11PENI_N	S12PENI_N
.D=DK		1	1	3	1	
.M=Oth missing			1	1	7	15
.R=RF		3		2		
.U=Unmarried		6415	6204	7793	7471	7124
.Z=Whether pen inc=no or mi		9176	8359	12008	11342	9749
0					276	180
1		2568	2334	1907	1276	1446
2		272	278	279	159	204
3		28	35	36	19	25
4		6	5	5	3	4

## General Comments

For Waves 1-10, receipt of pension income variables are based on information given about pensions in the Assets and Income section and do not consider information given about past pensions in the Employment section. The relevant pension questions are reported at the household-level and are asked only of the Financial Respondent about the Financial Respondent's pension income and, if married, the Financial Respondent's spouse's pension income. Adjustments are made when these measures are merged to the Respondent level, depending on whether the Respondent is the Financial Respondent or not. If the Respondent is the Financial Respondent, then measures concerning the Financial Respondent are assigned

to the Respondent, and those about the Financial Respondent's spouse are assigned to the Respondent's spouse. But if the Respondent is not the Financial Respondent, then measures about the Financial Respondent are assigned to the Respondent's spouse and those concerning the Financial Respondent's spouse are assigned to the Respondent.

Beginning in Wave 11, the questionnaire introduced a standalone Pension section, and information from this section is used to generate pension income variables when information from the Assets and Income section is not available. In the Pension section, relevant questions are reported at the pension level and are asked of both Financial and non-Financial Respondents who are currently working or who have previously reported having employer-provided pension plans.

### How Constructed

RwPENI\_N indicates the number pension plans from which the Respondent is currently receiving income. SwPENI\_N provides this information for the Respondent's spouse or partner.

In Wave 2H and from Wave 3 forward, a series of questions are asked in the Assets and Income section concerning the number of pension plans from which the Respondent received income in the last calendar year. If the Respondent reports receiving other income from retirement pension plans, then the Respondent is asked if s/he receives income from more than one retirement pension plan, and if so, how many. RwPENI\_N is set to the number of pension plans that the Respondent reports.

Beginning in wave 11, information from the standalone Pension section is incorporated for Respondents who do not have available information in the Assets and Income Section. In the Pension section, the Respondent is asked whether s/he receives any income from up to ten individual pension plans, and RwPENI\_N is equal to the number of plans where the Respondent answers "yes."

If the Respondent is currently not receiving any pension income, then RwPENI\_N is set to .Z. If the Respondent reports 10 or more pensions, s/he is considered an outlier and coded as .M. Otherwise, RwPENI\_N is set to a missing value based on missing values in HRS variables.

SwPENI\_N is constructed in the same way. If the Respondent is not married, SwPENI\_N is set to .U=unmarried.

These variables are included to provide context to the measure about continuation of a pension after death. Since that question is not asked in Waves 1 and 2A, that measure is not included for these earlier waves at this time. See the "Whether pensions continue" section for more information.

### Cross Wave Differences in Original HRS Data

There are two questions in the Assets and Income Section regarding the number of pension plans from which income is currently received. They are asked separately about the Financial Respondent and spouse/partner if the individual is receiving any pension income.

The first question is: "Do [you (yourself)/your spouse/partner] receive income from more than one retirement pension?" If "yes," another question asks: "How many retirement pensions do [you/your spouse/partner] receive?"

In Wave 2H, if the answer to the first question is "no," then the second question is set to "0" in the raw data. From Wave 3 and forward, if the answer to the first question is "no," the number of pensions question is filled with "1" in the raw data.

Beginning in Wave 11, information from the standalone Pension section is incorporated for Respondents who do not have available information in the Assets and Income section. The question, "Are you currently receiving regular

payments from your [plan name]?" is asked of both the Financial and non-Financial Respondent if s/he reports having an employer-provided pension plan. The question wording is consistent in Waves 11 and 12.

## HRS Variables Used

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HRS 1994:
  W6071      N20.RETIREMENT PENSIONS?
  WR6072     N20a.WHO RECEIVES PENSIO/ Self
  WR6073     N20b.>1 PENSION?/ Self
  WR6074     N20c.NUMBER PENSIONS/ Self
AHEAD 1995:
  D4191      J30.RET PENSION
  DR4192     J30a.WHO RECD PENSION / R
  DR4193     J30b./31.>1 PENSION / R
  DR4194     J30c./31a.#PENSIONS / R
HRS 1996:
  E4209      J127.RET PENSION
  ER4210     J128.WHO RECD PENSION/Self
  ER4211     J129.>1 PENSION/Self
  ER4212     J130.#PENSIONS/Self
HRS 1998:
  F4969      J127.RET PENSION
  FR4970     J128.WHO RECD PENSION/Self
  FR4971     J129.>1 PENSION/Self
  FR4972     J130.#PENSIONS/Self
HRS 2000:
  G5424      J127.RET PENSION
  GR5425     J128.WHO RECD PENSION/Self
  GR5426     J129.>1 PENSION/Self
  GR5427     J130.#PENSIONS/Self
HRS 2002:
  HQ215      PENSION RETIREMENT INCOME
  HQR216     WHO REC PENSION RETIREMENT INC/Self
  HQR217     R INCOME FR MORE THAN ONE PENSION/Self
  HQR218     NUMBER OF PENSIONS R RECEIVED/Self
HRS 2004:
  JQ215      PENSION RETIREMENT INCOME
  JQR216     WHO REC PENSION RETIREMENT INC/Self
  JQR217     R INCOME FR MORE THAN ONE PENSION/Self
  JQR218     NUMBER OF PENSIONS R RECEIVED/Self
HRS 2006:
  KQ215      PENSION RETIREMENT INCOME
  KQR216     WHO REC PENSION RETIREMENT INC/Self
  KQR217     R INCOME FR MORE THAN ONE PENSION/Self
  KQR218     NUMBER OF PENSIONS R RECEIVED/Self
HRS 2008:
  LQ215      PENSION RETIREMENT INCOME
  LQR216     WHO REC PENSION RETIREMENT INC/Self
  LQR217     INCOME FR MORE THAN ONE PENSION/Self
  LQR218     NUMBER OF PENSIONS R RECEIVED/Self
HRS 2010:
  MQ215      PENSION RETIREMENT INCOME
  MQR216     WHO REC PENSION RETIREMENT INC/Self
  MQR217     INCOME FR MORE THAN ONE PENSION/Self
  MQR218     NUMBER OF PENSIONS R RECEIVED/Self
HRS 2012:
  NJ2W108_1  STARTED RECEIVING ANNUITY -1_1
  NJ2W108_10 STARTED RECEIVING ANNUITY -1_10

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NJ2W108_2	STARTED RECEIVING ANNUITY -1_2
NJ2W108_3	STARTED RECEIVING ANNUITY -1_3
NJ2W108_4	STARTED RECEIVING ANNUITY -1_4
NJ2W108_5	STARTED RECEIVING ANNUITY -1_5
NJ2W108_6	STARTED RECEIVING ANNUITY -1_6
NJ2W108_7	STARTED RECEIVING ANNUITY -1_7
NJ2W108_8	STARTED RECEIVING ANNUITY -1_8
NJ2W108_9	STARTED RECEIVING ANNUITY -1_9
NJ2W426_1	RECEIVING BENEFITS -1_1
NJ2W426_10	RECEIVING BENEFITS -1_10
NJ2W426_2	RECEIVING BENEFITS -1_2
NJ2W426_3	RECEIVING BENEFITS -1_3
NJ2W426_4	RECEIVING BENEFITS -1_4
NJ2W426_5	RECEIVING BENEFITS -1_5
NJ2W426_6	RECEIVING BENEFITS -1_6
NJ2W426_7	RECEIVING BENEFITS -1_7
NJ2W426_8	RECEIVING BENEFITS -1_8
NJ2W426_9	RECEIVING BENEFITS -1_9
NJ2W440_1	PLAN STATUS-CONVERTED TO ANNUITY -1_1
NJ2W440_10	PLAN STATUS-CONVERTED TO ANNUITY -1_10
NJ2W440_2	PLAN STATUS-CONVERTED TO ANNUITY -1_2
NJ2W440_3	PLAN STATUS-CONVERTED TO ANNUITY -1_3
NJ2W440_4	PLAN STATUS-CONVERTED TO ANNUITY -1_4
NJ2W440_5	PLAN STATUS-CONVERTED TO ANNUITY -1_5
NJ2W440_6	PLAN STATUS-CONVERTED TO ANNUITY -1_6
NJ2W440_7	PLAN STATUS-CONVERTED TO ANNUITY -1_7
NJ2W440_8	PLAN STATUS-CONVERTED TO ANNUITY -1_8
NJ2W440_9	PLAN STATUS-CONVERTED TO ANNUITY -1_9
NQ215	PENSION RETIREMENT INCOME
NQR216	WHO REC PENSION RETIREMENT INC/Self
NQR217	INCOME FR MORE THAN ONE PENSION/Self
NQR218	NUMBER OF PENSIONS R RECEIVED/Self
HRS 2014:	
OJ2W108_1	STARTED RECEIVING ANNUITY_1
OJ2W108_10	STARTED RECEIVING ANNUITY_10
OJ2W108_2	STARTED RECEIVING ANNUITY_2
OJ2W108_3	STARTED RECEIVING ANNUITY_3
OJ2W108_4	STARTED RECEIVING ANNUITY_4
OJ2W108_5	STARTED RECEIVING ANNUITY_5
OJ2W108_6	STARTED RECEIVING ANNUITY_6
OJ2W108_7	STARTED RECEIVING ANNUITY_7
OJ2W108_8	STARTED RECEIVING ANNUITY_8
OJ2W108_9	STARTED RECEIVING ANNUITY_9
OJ2W426_1	RECEIVING BENEFITS_1
OJ2W426_10	RECEIVING BENEFITS_10
OJ2W426_2	RECEIVING BENEFITS_2
OJ2W426_3	RECEIVING BENEFITS_3
OJ2W426_4	RECEIVING BENEFITS_4
OJ2W426_5	RECEIVING BENEFITS_5
OJ2W426_6	RECEIVING BENEFITS_6
OJ2W426_7	RECEIVING BENEFITS_7
OJ2W426_8	RECEIVING BENEFITS_8
OJ2W426_9	RECEIVING BENEFITS_9
OJ2W440_1	PLAN STATUS - CONVERTED TO ANNUITY_1
OJ2W440_10	PLAN STATUS - CONVERTED TO ANNUITY_10
OJ2W440_2	PLAN STATUS - CONVERTED TO ANNUITY_2
OJ2W440_3	PLAN STATUS - CONVERTED TO ANNUITY_3
OJ2W440_4	PLAN STATUS - CONVERTED TO ANNUITY_4
OJ2W440_5	PLAN STATUS - CONVERTED TO ANNUITY_5

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OJ2W440_6	PLAN STATUS - CONVERTED TO ANNUITY_6
OJ2W440_7	PLAN STATUS - CONVERTED TO ANNUITY_7
OJ2W440_8	PLAN STATUS - CONVERTED TO ANNUITY_8
OJ2W440_9	PLAN STATUS - CONVERTED TO ANNUITY_9
OQ215	PENSION RETIREMENT INCOME
OQR216	WHO REC PENSION RETIREMENT INC/Self
OQR217	INCOME FR MORE THAN ONE PENSION/Self
OQR218	NUMBER OF PENSIONS R RECEIVED/Self

### Whether pensions can continue

2	R2PENIC1	R2PENIC1:W2 Pen #1 Continue after death	Categ
3	R3PENIC1	R3PENIC1:W3 Pen #1 Continue after death	Categ
4	R4PENIC1	R4PENIC1:W4 Pen #1 Continue after death	Categ
5	R5PENIC1	R5PENIC1:W5 Pen #1 Continue after death	Categ
6	R6PENIC1	R6PENIC1:W6 Pen #1 Continue after death	Categ
7	R7PENIC1	R7PENIC1:W7 Pen #1 Continue after death	Categ
8	R8PENIC1	R8PENIC1:W8 Pen #1 Continue after death	Categ
9	R9PENIC1	R9PENIC1:W9 Pen #1 Continue after death	Categ
10	R10PENIC1	R10PENIC1:W10 Pen #1 Continue after death	Categ
11	R11PENIC1	R11PENIC1:W11 Pen #1 Continue after death	Categ
12	R12PENIC1	R12PENIC1:W12 Pen #1 Continue after death	Categ
2	S2PENIC1	S2PENIC1:W2 Pen #1 Continue after death	Categ
3	S3PENIC1	S3PENIC1:W3 Pen #1 Continue after death	Categ
4	S4PENIC1	S4PENIC1:W4 Pen #1 Continue after death	Categ
5	S5PENIC1	S5PENIC1:W5 Pen #1 Continue after death	Categ
6	S6PENIC1	S6PENIC1:W6 Pen #1 Continue after death	Categ
7	S7PENIC1	S7PENIC1:W7 Pen #1 Continue after death	Categ
8	S8PENIC1	S8PENIC1:W8 Pen #1 Continue after death	Categ
9	S9PENIC1	S9PENIC1:W9 Pen #1 Continue after death	Categ
10	S10PENIC1	S10PENIC1:W10 Pen #1 Continue after death	Categ
11	S11PENIC1	S11PENIC1:W11 Pen #1 Continue after death	Categ
12	S12PENIC1	S12PENIC1:W12 Pen #1 Continue after death	Categ
2	R2PENIC2	R2PENIC2:W2 Pen #2 Continue after death	Categ
3	R3PENIC2	R3PENIC2:W3 Pen #2 Continue after death	Categ
4	R4PENIC2	R4PENIC2:W4 Pen #2 Continue after death	Categ
5	R5PENIC2	R5PENIC2:W5 Pen #2 Continue after death	Categ
6	R6PENIC2	R6PENIC2:W6 Pen #2 Continue after death	Categ
7	R7PENIC2	R7PENIC2:W7 Pen #2 Continue after death	Categ
8	R8PENIC2	R8PENIC2:W8 Pen #2 Continue after death	Categ
9	R9PENIC2	R9PENIC2:W9 Pen #2 Continue after death	Categ
10	R10PENIC2	R10PENIC2:W10 Pen #2 Continue after death	Categ
11	R11PENIC2	R11PENIC2:W11 Pen #2 Continue after death	Categ
12	R12PENIC2	R12PENIC2:W12 Pen #2 Continue after death	Categ
2	S2PENIC2	S2PENIC2:W2 Pen #2 Continue after death	Categ
3	S3PENIC2	S3PENIC2:W3 Pen #2 Continue after death	Categ
4	S4PENIC2	S4PENIC2:W4 Pen #2 Continue after death	Categ
5	S5PENIC2	S5PENIC2:W5 Pen #2 Continue after death	Categ
6	S6PENIC2	S6PENIC2:W6 Pen #2 Continue after death	Categ
7	S7PENIC2	S7PENIC2:W7 Pen #2 Continue after death	Categ
8	S8PENIC2	S8PENIC2:W8 Pen #2 Continue after death	Categ
9	S9PENIC2	S9PENIC2:W9 Pen #2 Continue after death	Categ
10	S10PENIC2	S10PENIC2:W10 Pen #2 Continue after death	Categ
11	S11PENIC2	S11PENIC2:W11 Pen #2 Continue after death	Categ
12	S12PENIC2	S12PENIC2:W12 Pen #2 Continue after death	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2PENIC1	1716	1.92	0.97	1.0	7.0
R3PENIC1	3379	1.99	1.19	1.0	7.0
R4PENIC1	5387	1.67	0.97	1.0	7.0
R5PENIC1	5489	1.73	1.17	1.0	7.0
R6PENIC1	5168	1.71	1.19	1.0	7.0
R7PENIC1	5051	1.73	1.21	1.0	7.0
R8PENIC1	4801	1.63	0.97	1.0	7.0
R9PENIC1	4479	1.60	0.92	1.0	7.0
R10PENIC1	3881	1.61	0.98	1.0	7.0

R11PENIC1	3482	1.77	1.04	1.0	7.0
R12PENIC1	3567	1.71	1.01	1.0	7.0
S2PENIC1	1382	2.09	0.95	1.0	7.0
S3PENIC1	2863	2.09	1.12	1.0	7.0
S4PENIC1	3240	2.01	0.99	1.0	7.0
S5PENIC1	3256	2.08	1.20	1.0	7.0
S6PENIC1	2995	2.08	1.19	1.0	7.0
S7PENIC1	2924	2.09	1.20	1.0	7.0
S8PENIC1	2770	1.99	1.02	1.0	7.0
S9PENIC1	2517	1.97	0.98	1.0	7.0
S10PENIC1	2156	1.98	1.03	1.0	7.0
S11PENIC1	1383	1.99	1.01	1.0	7.0
S12PENIC1	1596	1.97	0.97	1.0	7.0
R2PENIC2	173	1.71	0.88	1.0	3.0
R3PENIC2	327	1.83	1.13	1.0	7.0
R4PENIC2	570	1.55	0.93	1.0	7.0
R5PENIC2	609	1.63	1.21	1.0	7.0
R6PENIC2	593	1.68	1.37	1.0	7.0
R7PENIC2	667	1.68	1.32	1.0	7.0
R8PENIC2	614	1.48	0.93	1.0	7.0
R9PENIC2	610	1.44	0.82	1.0	7.0
R10PENIC2	631	1.50	0.92	1.0	7.0
R11PENIC2	531	1.62	1.00	1.0	7.0
R12PENIC2	572	1.57	0.90	1.0	7.0
S2PENIC2	146	1.84	0.89	1.0	3.0
S3PENIC2	273	1.94	1.14	1.0	7.0
S4PENIC2	306	1.87	1.01	1.0	7.0
S5PENIC2	314	1.99	1.31	1.0	7.0
S6PENIC2	311	2.03	1.42	1.0	7.0
S7PENIC2	359	2.02	1.33	1.0	7.0
S8PENIC2	298	1.83	1.07	1.0	7.0
S9PENIC2	306	1.76	0.94	1.0	7.0
S10PENIC2	309	1.85	1.04	1.0	7.0
S11PENIC2	176	1.73	1.03	1.0	7.0
S12PENIC2	225	1.84	1.01	1.0	7.0



## Categorical Variable Codes

Value	R2PENIC1	R3PENIC1	R4PENIC1	R5PENIC1	R6PENIC1	R7PENIC1
.D=DK	39	91	148	172	177	157
.M=Oth missing			1			
.Q=Not asked this wv	8222					
.R=RF	2	6	7	9	12	9
.U=Unmarried		1266				
.Z=No pension income	9663	13249	15841	13909	12808	14912
1.Stop	824	1648	3395	3472	3330	3218
2.Continue unchanged	217	422	537	530	519	511
3.Continue at reduced level	670	1233	1363	1341	1188	1188
4.Lump sum paid to benefici			69	24		
7.Other	5	76	23	122	131	134

Value	R8PENIC1	R9PENIC1	R10PENIC1	R11PENIC1	R12PENIC1
.D=DK	153	168	122	111	129
.M=Oth missing	1			3	2
.Q=Not asked this wv				7	1
.R=RF	5	8	8	12	8
.U=Unmarried				868	660
.Z=No pension income	13509	12562	18023	16071	14380
1.Stop	3110	2961	2557	1960	2119
2.Continue unchanged	519	458	425	523	533
3.Continue at reduced level	1093	987	837	935	845
4.Lump sum paid to benefici	49	60	29	27	38
7.Other	30	13	33	37	32

Value	S2PENIC1	S3PENIC1	S4PENIC1	S5PENIC1	S6PENIC1	S7PENIC1
.D=DK	38	84	96	113	131	104
.Q=Not asked this wv	4549					
.R=RF	1	4	5	8	11	5
.U=Unmarried	5970	5595	6845	6516	6291	6762
.Z=No pension income	7702	9445	11198	9686	8737	10334
1.Stop	533	1203	1415	1419	1285	1239
2.Continue unchanged	202	401	479	473	484	467
3.Continue at reduced level	644	1211	1296	1275	1154	1144
4.Lump sum paid to benefici			37	11		
7.Other	3	48	13	78	72	74

Value	S8PENIC1	S9PENIC1	S10PENIC1	S11PENIC1	S12PENIC1
.D=DK	100	129	68	68	75
.M=Oth missing				7	17
.R=RF	4	6	3	6	6
.U=Unmarried	6415	6204	7793	7471	7124
.Z=No pension income	9180	8361	12014	11619	9929
1.Stop	1227	1122	954	606	684
2.Continue unchanged	461	418	375	241	318
3.Continue at reduced level	1040	948	795	515	573
4.Lump sum paid to benefici	20	19	12	11	13
7.Other	22	10	20	10	8

Value	R2PENIC2	R3PENIC2	R4PENIC2	R5PENIC2	R6PENIC2	R7PENIC2
.D=DK	6	11	17	14	12	16
.M=Oth missing				2		1
.Q=Not asked this wv	8222					
.R=RF	1		2	2	4	1
.U=Unmarried		147				
.Z=No pension income	11240	17505	20795	18952	17556	19444
1.Stop	99	180	397	428	416	459
2.Continue unchanged	25	45	52	53	53	66
3.Continue at reduced level	49	96	113	107	98	116
4.Lump sum paid to benefici			5	4		
7.Other		6	3	17	26	26

Value	R8PENIC2	R9PENIC2	R10PENIC2	R11PENIC2	R12PENIC2
.D=DK	15	19	16	14	15
.M=Oth missing			1	2	1
.R=RF	1			1	
.U=Unmarried				113	74
.Z=No pension income	17839	16588	21386	19893	18085
1.Stop	450	454	456	336	384
2.Continue unchanged	62	54	57	89	64
3.Continue at reduced level	90	95	108	94	111
4.Lump sum paid to benefici	7	6	6	6	12
7.Other	5	1	4	6	1

Value	S2PENIC2	S3PENIC2	S4PENIC2	S5PENIC2	S6PENIC2	S7PENIC2
.D=DK	6	9	8	9	6	13
.M=Oth missing				1		
.Q=Not asked this wv	4549					
.R=RF	1	1	1		4	1
.U=Unmarried	5970	5595	6845	6518	6291	6762
.Z=No pension income	8970	12113	14224	12737	11553	12994
1.Stop	72	135	155	159	157	174
2.Continue unchanged	26	40	46	45	49	60
3.Continue at reduced level	48	93	100	98	90	111
4.Lump sum paid to benefici			3	1		
7.Other		5	2	11	15	14

Value	S8PENIC2	S9PENIC2	S10PENIC2	S11PENIC2	S12PENIC2
.D=DK	8	12	10	5	8
.M=Oth missing			1	7	15
.U=Unmarried	6415	6204	7793	7471	7124
.Z=No pension income	11748	10695	13921	12895	11375
1.Stop	158	167	161	101	121
2.Continue unchanged	52	50	48	30	27
3.Continue at reduced level	82	86	95	42	72
4.Lump sum paid to benefici	2	2	2	1	4
7.Other	4	1	3	2	1

## General Comments

For Waves 1-10, receipt of pension income variables are based on information given about pensions in the Assets and Income section and do not consider information given about past pensions in the Employment section. The relevant pension questions are reported at the household-level and are asked only of the Financial Respondent about the Financial Respondent's pension income and, if married, the Financial Respondent's spouse's pension income. Adjustments are made when these measures are merged to the Respondent level, depending on whether the Respondent is the Financial Respondent or not. If the Respondent is the Financial Respondent, then measures concerning the Financial Respondent are assigned to the Respondent, and those about the Financial Respondent's spouse are assigned to the Respondent's spouse. But if the

Respondent is not the Financial Respondent, then measures about the Financial Respondent are assigned to the Respondent's spouse and those concerning the Financial Respondent's spouse are assigned to the Respondent.

Beginning in Wave 11, the questionnaire introduced a standalone Pension section, and information from this section is used to generate pension income variables when information from the Assets and Income section is not available. In the Pension section, relevant questions are reported at the pension level and are asked of both Financial and non-Financial Respondents who are currently working or who have previously reported having employer-provided pension plans.

## How Constructed

RwPENIC1 and RwPENIC2 indicate whether the Respondent's estate can continue to collect income from pension plan #1 and pension plan #2 after the Respondent's death. SwPENIC1 and SwPENIC2 provide this information for the Respondent's spouse or partner.

RwPENIC1 and RwPENIC2 simply recode for missing values. RwPENIC1 is set to .Z if the Respondent receives no pension income. RwPENIC2 is set to .Z if the Respondent receives no pension income or pension income from a single plan. R3PENIC1 and R3PENIC2 are set to .U for Wave 3A Respondents who are unmarried.

The spouse measures are constructed in the same way. If the Respondent is not married, SwPENIC1 and SwPENIC2 are set to .U=unmarried.

Because this question is not asked in Waves 1 and 2A, the measure is not included for these earlier waves.

## Cross Wave Differences in Original HRS Data

In all waves of the Assets and Income section, these questions are only asked if the Financial Respondent reports that a member of the household has received pension income. The questions are preceded by a question that asks how long the pension income will be received.

In Wave 2H and from Wave 3 forward, the question asks: "If you were to die (before then [if the pension is received for a limited number of years]), would the payment stop, continue unchanged, or continue at a reduced level?" There are 4 answers: "1.Stop," "2.Continue unchanged," "3.Continue at a reduced level" or "7.Other."

In Wave 4 and Wave 5, one more answer is added: "4. Lump sum paid to beneficiary."

The same question is asked about the second pension income if two or more pensions are reported.

In Wave 3A, the question was not asked of single Respondents.

Beginning in Wave 11, information from the standalone Pension section is incorporated for Respondents who do not have available information in the Assets and Income section. The question, "If you should die, would your [husband/wife/partner] continue to receive the same payment, get a reduced payment or would the payment end?" is asked of both the Financial and non-Financial Respondent if s/he reports pension income from an employer-provided pension plan. The question wording is consistent in Waves 11 and 12.

## HRS Variables Used

HRS 1994:

W6071

N20.RETIREMENT PENSIONS?

WR6072

N20a.WHO RECEIVES PENSIO/ Self

WR6073 N20b.>1 PENSION?/ Self  
 WR6074 N20c.NUMBER PENSIONS/ Self  
 WR6082 N20k.PAYMENT STOP/CONTIN/ Self  
 WR6090 N20w.PAYMENT STOP/CONTIN/ Self  
 AHEAD 1995:  
   D4191 J30.RET PENSION  
   DR4192 J30a.WHO RECD PENSION / R  
   DR4193 J30b/31.>1 PENSION / R  
   DR4194 J30c/31a.#PENSIONS / R  
   DR4205\_1 J30k/31j.PENSION STOP DEATH-1 / R  
   DR4205\_2 J30m/31k.STOP WITH DEATH PENSION-2 / R  
 HRS 1996:  
   E4209 J127.RET PENSION  
   ER4210 J128.WHO RECD PENSION/Self  
   ER4211 J129.>1 PENSION/Self  
   ER4212 J130.#PENSIONS/Self  
   ER4229\_1 J142.PENSION STOP WITH DEATH/Self  
   ER4229\_2 J142.PENSION STOP WITH DEATH/Self  
 HRS 1998:  
   F4969 J127.RET PENSION  
   FR4970 J128.WHO RECD PENSION/Self  
   FR4971 J129.>1 PENSION/Self  
   FR4972 J130.#PENSIONS/Self  
   FR4989\_1 J142.PENSION STOP WITH DEATH/Self  
   FR4989\_2 J142.PENSION STOP WITH DEATH/Self  
 HRS 2000:  
   G5424 J127.RET PENSION  
   GR5425 J128.WHO RECD PENSION/Self  
   GR5426 J129.>1 PENSION/Self  
   GR5427 J130.#PENSIONS/Self  
   GR5444\_1 J142.PENSION STOP WITH DEATH/Self  
   GR5444\_2 J142.PENSION STOP WITH DEATH/Self  
 HRS 2002:  
   HQ215 PENSION RETIREMENT INCOME  
   HQR216 WHO REC PENSION RETIREMENT INC/Self  
   HQR217 R INCOME FR MORE THAN ONE PENSION/Self  
   HQR218 NUMBER OF PENSIONS R RECEIVED/Self  
   HQR236\_1 R PENSION CONTINUE HOW -1/Self  
   HQR236\_2 R PENSION CONTINUE HOW -2/Self  
 HRS 2004:  
   JQ215 PENSION RETIREMENT INCOME  
   JQR216 WHO REC PENSION RETIREMENT INC/Self  
   JQR217 R INCOME FR MORE THAN ONE PENSION/Self  
   JQR218 NUMBER OF PENSIONS R RECEIVED/Self  
   JQR236\_1 R PENSION CONTINUE HOW -1/Self  
   JQR236\_2 R PENSION CONTINUE HOW -2/Self  
 HRS 2006:  
   KQ215 PENSION RETIREMENT INCOME  
   KQR216 WHO REC PENSION RETIREMENT INC/Self  
   KQR217 R INCOME FR MORE THAN ONE PENSION/Self  
   KQR218 NUMBER OF PENSIONS R RECEIVED/Self  
   KQR236\_1 R PENSION CONTINUE HOW -1/Self  
   KQR236\_2 R PENSION CONTINUE HOW -2/Self  
 HRS 2008:  
   LQ215 PENSION RETIREMENT INCOME  
   LQR216 WHO REC PENSION RETIREMENT INC/Self  
   LQR217 INCOME FR MORE THAN ONE PENSION/Self  
   LQR218 NUMBER OF PENSIONS R RECEIVED/Self  
   LQR236\_1 PENSION CONTINUE HOW -1/Self

LQR236_2	PENSION CONTINUE HOW -2/Self
HRS 2010:	
MQ215	PENSION RETIREMENT INCOME
MQR216	WHO REC PENSION RETIREMENT INC/Self
MQR217	INCOME FR MORE THAN ONE PENSION/Self
MQR218	NUMBER OF PENSIONS R RECEIVED/Self
MQR236_1	PENSION CONTINUE HOW -1/Self
MQR236_2	PENSION CONTINUE HOW -2/Self
HRS 2012:	
NJ2W054_1	R DIE WILL BENEFITS CONTINUE -1_1
NJ2W054_10	R DIE WILL BENEFITS CONTINUE -1_10
NJ2W054_2	R DIE WILL BENEFITS CONTINUE -1_2
NJ2W054_3	R DIE WILL BENEFITS CONTINUE -1_3
NJ2W054_4	R DIE WILL BENEFITS CONTINUE -1_4
NJ2W054_5	R DIE WILL BENEFITS CONTINUE -1_5
NJ2W054_6	R DIE WILL BENEFITS CONTINUE -1_6
NJ2W054_7	R DIE WILL BENEFITS CONTINUE -1_7
NJ2W054_8	R DIE WILL BENEFITS CONTINUE -1_8
NJ2W054_9	R DIE WILL BENEFITS CONTINUE -1_9
NQ215	PENSION RETIREMENT INCOME
NQR216	WHO REC PENSION RETIREMENT INC/Self
NQR217	INCOME FR MORE THAN ONE PENSION/Self
NQR218	NUMBER OF PENSIONS R RECEIVED/Self
NQR236_1	PENSION CONTINUE HOW -1/Self
NQR236_2	PENSION CONTINUE HOW -2/Self
HRS 2014:	
OJ2W054_1	R DIE WILL BENEFITS CONTINUE_1
OJ2W054_10	R DIE WILL BENEFITS CONTINUE_10
OJ2W054_2	R DIE WILL BENEFITS CONTINUE_2
OJ2W054_3	R DIE WILL BENEFITS CONTINUE_3
OJ2W054_4	R DIE WILL BENEFITS CONTINUE_4
OJ2W054_5	R DIE WILL BENEFITS CONTINUE_5
OJ2W054_6	R DIE WILL BENEFITS CONTINUE_6
OJ2W054_7	R DIE WILL BENEFITS CONTINUE_7
OJ2W054_8	R DIE WILL BENEFITS CONTINUE_8
OJ2W054_9	R DIE WILL BENEFITS CONTINUE_9
OQ215	PENSION RETIREMENT INCOME
OQR216	WHO REC PENSION RETIREMENT INC/Self
OQR217	INCOME FR MORE THAN ONE PENSION/Self
OQR218	NUMBER OF PENSIONS R RECEIVED/Self
OQR236_1	PENSION CONTINUE HOW -1/Self
OQR236_2	PENSION CONTINUE HOW -2/Self

<b>Any pension from current job</b>
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Wave	Variable	Label	Type
1	R1JCPEN	R1JCPEN:W1 Has pension current job	Categ
2	R2JCPEN	R2JCPEN:W2 Has pension current job	Categ
3	R3JCPEN	R3JCPEN:W3 Has pension current job	Categ
4	R4JCPEN	R4JCPEN:W4 Has pension current job	Categ
5	R5JCPEN	R5JCPEN:W5 Has pension current job	Categ
6	R6JCPEN	R6JCPEN:W6 Has pension current job	Categ
7	R7JCPEN	R7JCPEN:W7 Has pension current job	Categ
8	R8JCPEN	R8JCPEN:W8 Has pension current job	Categ
9	R9JCPEN	R9JCPEN:W9 Has pension current job	Categ
10	R10JCPEN	R10JCPEN:W10 Has pension current job	Categ
11	R11JCPEN	R11JCPEN:W11 Has pension current job	Categ
12	R12JCPEN	R12JCPEN:W12 Has pension current job	Categ
1	S1JCPEN	S1JCPEN:W1 Has pension current job	Categ
2	S2JCPEN	S2JCPEN:W2 Has pension current job	Categ
3	S3JCPEN	S3JCPEN:W3 Has pension current job	Categ
4	S4JCPEN	S4JCPEN:W4 Has pension current job	Categ
5	S5JCPEN	S5JCPEN:W5 Has pension current job	Categ
6	S6JCPEN	S6JCPEN:W6 Has pension current job	Categ
7	S7JCPEN	S7JCPEN:W7 Has pension current job	Categ
8	S8JCPEN	S8JCPEN:W8 Has pension current job	Categ
9	S9JCPEN	S9JCPEN:W9 Has pension current job	Categ
10	S10JCPEN	S10JCPEN:W10 Has pension current job	Categ
11	S11JCPEN	S11JCPEN:W11 Has pension current job	Categ
12	S12JCPEN	S12JCPEN:W12 Has pension current job	Categ
1	R1JCPENF	R1JCPENF:W1 Further info on JCPEN	Categ
2	R2JCPENF	R2JCPENF:W2 Further info on JCPEN	Categ
3	R3JCPENF	R3JCPENF:W3 Further info on JCPEN	Categ
4	R4JCPENF	R4JCPENF:W4 Further info on JCPEN	Categ
5	R5JCPENF	R5JCPENF:W5 Further info on JCPEN	Categ
6	R6JCPENF	R6JCPENF:W6 Further info on JCPEN	Categ
7	R7JCPENF	R7JCPENF:W7 Further info on JCPEN	Categ
8	R8JCPENF	R8JCPENF:W8 Further info on JCPEN	Categ
1	S1JCPENF	S1JCPENF:W1 Further info on JCPEN	Categ
2	S2JCPENF	S2JCPENF:W2 Further info on JCPEN	Categ
3	S3JCPENF	S3JCPENF:W3 Further info on JCPEN	Categ
4	S4JCPENF	S4JCPENF:W4 Further info on JCPEN	Categ
5	S5JCPENF	S5JCPENF:W5 Further info on JCPEN	Categ
6	S6JCPENF	S6JCPENF:W6 Further info on JCPEN	Categ
7	S7JCPENF	S7JCPENF:W7 Further info on JCPEN	Categ
8	S8JCPENF	S8JCPENF:W8 Further info on JCPEN	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCPEN	8295	0.54	0.50	0.0	1.0
R2JCPEN	7010	0.54	0.50	0.0	1.0
R3JCPEN	6565	0.50	0.50	0.0	1.0
R4JCPEN	8288	0.48	0.50	0.0	1.0
R5JCPEN	7111	0.48	0.50	0.0	1.0
R6JCPEN	6002	0.45	0.50	0.0	1.0
R7JCPEN	7788	0.47	0.50	0.0	1.0
R8JCPEN	6564	0.44	0.50	0.0	1.0
R9JCPEN	5796	0.45	0.50	0.0	1.0
R10JCPEN	8714	0.47	0.50	0.0	1.0
R11JCPEN	7829	0.50	0.50	0.0	1.0

R12JCPEN	6769	0.49	0.50	0.0	1.0
S1JCPEN	6546	0.54	0.50	0.0	1.0
S2JCPEN	5476	0.54	0.50	0.0	1.0
S3JCPEN	5014	0.50	0.50	0.0	1.0
S4JCPEN	6165	0.50	0.50	0.0	1.0
S5JCPEN	5312	0.49	0.50	0.0	1.0
S6JCPEN	4462	0.45	0.50	0.0	1.0
S7JCPEN	5720	0.48	0.50	0.0	1.0
S8JCPEN	4816	0.45	0.50	0.0	1.0
S9JCPEN	4189	0.46	0.50	0.0	1.0
S10JCPEN	6018	0.48	0.50	0.0	1.0
S11JCPEN	5417	0.52	0.50	0.0	1.0
S12JCPEN	4608	0.51	0.50	0.0	1.0
R1JCPENF	8295	0.00	0.00	0.0	0.0
R2JCPENF	7010	0.66	1.21	0.0	11.0
R3JCPENF	6565	0.64	1.20	0.0	9.0
R4JCPENF	8288	0.54	1.33	0.0	9.0
R5JCPENF	7111	0.73	1.45	0.0	9.0
R6JCPENF	6002	0.77	1.65	0.0	11.0
R7JCPENF	7788	0.27	1.30	0.0	11.0
R8JCPENF	6564	0.72	1.50	0.0	11.0
S1JCPENF	6546	0.00	0.00	0.0	0.0
S2JCPENF	5476	0.67	1.22	0.0	11.0
S3JCPENF	5014	0.63	1.20	0.0	9.0
S4JCPENF	6165	0.54	1.31	0.0	9.0
S5JCPENF	5312	0.75	1.48	0.0	9.0
S6JCPENF	4462	0.77	1.64	0.0	11.0
S7JCPENF	5720	0.26	1.30	0.0	11.0
S8JCPENF	4816	0.74	1.52	0.0	10.0

## Categorical Variable Codes

Value	R1JCPEN	R2JCPEN	R3JCPEN	R4JCPEN	R5JCPEN	R6JCPEN	R7JCPEN
.D=DK	68	21	21	33	43	32	32
.M=Oth missing		12	224	66	43	1	2
.Q=Not asked this wv		8222					
.R=RF	16	1	7	11	6	27	19
.W=Not working	4273	4376	11174	12986	12376	12103	12288
0.No	3839	3240	3288	4272	3711	3323	4127
1.Yes	4456	3770	3277	4016	3400	2679	3661

Value	R8JCPEN	R9JCPEN	R10JCPEN	R11JCPEN	R12JCPEN
.D=DK	25	36	67	118	95
.M=Oth missing	39	24	41		
.R=RF	14	22	34	10	19
.W=Not working	11827	11339	13178	12597	11864
0.No	3658	3212	4624	3897	3466
1.Yes	2906	2584	4090	3932	3303

Value	S1JCPEN	S2JCPEN	S3JCPEN	S4JCPEN	S5JCPEN	S6JCPEN	S7JCPEN
.D=DK	46	15	17	22	35	24	27
.M=Oth missing		9	137	49	29	1	1
.Q=Not asked this wv		4549					
.R=RF	10		5	1	4	20	15
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working	3298	3239	6742	7741	7350	7132	7209
0.No	3034	2539	2502	3106	2720	2444	2973
1.Yes	3512	2937	2512	3059	2592	2018	2747

Value	S8JCPEN	S9JCPEN	S10JCPEN	S11JCPEN	S12JCPEN
.D=DK	23	27	43	75	56
.M=Oth missing	27	15	27		
.R=RF	7	13	20	5	10
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6862	6402	7405	6991	6353
0.No	2640	2272	3132	2620	2275
1.Yes	2176	1917	2886	2797	2333



Value	R1JCPENF	R2JCPENF	R3JCPENF	R4JCPENF	R5JCPENF	R6JCPENF	R7JCPENF
.Q=Not asked this wv		8222					
.S=No pen info	4357	4410	11426	13096	12468	12163	12341
0.No addl info	8295	3852	3826	5754	4295	3702	7398
1.No rules chg		2777	2323	2036	2203	1732	1
2.No chg/JCPEN=no, b/c 0 pl		13	72	117	43	104	67
3.No chg/PENCT= #ptyp or gt		2				5	
4.Rules chg		271	262	228	405	256	164
5.Rule chg/JCPEN=no, b/c 0		4			2	3	5
6.New Pen/JCPEN=no, b/c 0 pl					20	10	15
7.Old and new pen info		10	4	4		10	
8.Denies but had pen		73	69	81	142	123	113
9.Denies and no pen			9	68	1	53	
10.RuleChg/PENCT= #ptyp, gt		4				1	
11.New Pen/PENCT= #ptyp, gt		4				3	25

Value	R8JCPENF
.S=No pen info	11905
0.No addl info	3960
1.No rules chg	2066
2.No chg/JCPEN=no, b/c 0 pl	98
3.No chg/PENCT= #ptyp or gt	6
4.Rules chg	245
5.Rule chg/JCPEN=no, b/c 0	6
6.New Pen/JCPEN=no, b/c 0 pl	7
8.Denies but had pen	172
10.RuleChg/PENCT= #ptyp, gt	3
11.New Pen/PENCT= #ptyp, gt	1

Value	S1JCPENF	S2JCPENF	S3JCPENF	S4JCPENF	S5JCPENF	S6JCPENF	S7JCPENF
.Q=Not asked this wv		4549					
.S=No pen info	3354	3263	6901	7813	7418	7177	7252
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.No addl info	6546	3014	2935	4244	3138	2746	5451
1.No rules chg		2150	1766	1543	1704	1298	1
2.No chg/JCPEN=no, b/c 0 pl		11	50	91	33	76	46
3.No chg/PENCT= #ptyp or gt		2				3	
4.Rules chg		225	200	179	306	193	106
5.Rule chg/JCPEN=no, b/c 0		4			2	2	5
6.New Pen/JCPEN=no, b/c 0 pl					15	7	10
7.Old and new pen info		9	4	3		4	
8.Denies but had pen		54	54	62	113	91	80
9.Denies and no pen			5	43	1	39	
10.RuleChg/PENCT= #ptyp, gt		3					
11.New Pen/PENCT= #ptyp, gt		4				3	21

Value	S8JCPENF
.S=No pen info	6919
.U=Unmarried	6417
.V=Spouse NR	317
0.No addl info	2869
1.No rules chg	1542
2.No chg/JCPEN=no, b/c 0 pl	76
3.No chg/PENCT= #ptyp or gt	4
4.Rules chg	184
5.Rule chg/JCPEN=no, b/c 0	3
6.New Pen/JCPEN=no, b/c 0 pl	3
8.Denies but had pen	133
10.RuleChg/PENCT= #ptyp, gt	2

## Format Reference Tables – complete variable value labels

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Variables: JCPENF

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.D=DK
.M=Oth missing
.Q=Not asked this wv
.R=RF
.S=No pen info
.U=Unmarried
.V=Spouse NR
0.No addl info
1.No rules chg
2.No chg/JCPEN=no, b/c 0 plan
3.No chg/PENCT= #ptyp or gtl Q
4.Rules chg
5.Rule chg/JCPEN=no, b/c 0 pln
6.New Pen/JCPEN=no, b/c 0 plan
7.Old and new pen info
8.Denies but had pen
9.Denies and no pen
10.RuleChg/PENCT= #ptyp, gtl Q
11.New Pen/PENCT= #ptyp, gtl Q

```

### How Constructed

RwJCPEN indicates whether the Respondent has any pension plan from the current job, and RwJCPENF provides additional detail about the source of information for RwJCPEN. SwJCPEN and SwJCPENF provide the information for the Respondent's spouse or partner.

Until Wave 9, the set of questions asked differs depending on whether the Respondent had a pension and worked for the same employer in the previous wave or not. Whether the Respondent is considered to have had a pension in the previous wave is indicated by a preloaded variable. Considerably more information is collected about pensions that are newly reported or where the rules have changed. RwJCPENF indicates which situation applies to the Respondent in Wave "w."

If the Respondent is working, questions ask about the current job's pension plan. If the current job is newly reported in a given wave or if the Respondent was not included in a pension plan with the current employer at the previous wave, the Respondent is asked if s/he is included in a pension plan and if so, how many. In follow-up questions, characteristics of the plans are collected. Before Wave 5, questions ask about up to three plans. From Wave 5 to Wave 10, they ask about up to four.

RwJCPEN is set to yes (=1) if the Respondent reports being included in a pension and subsequently reports at least one pension when asked how many, or if the Respondent reports at least one plan type. If the Respondent responds "no" to the inclusion question or if the number of pension plans is "zero" and no plan type is reported, then RwJCPEN is set to no (=0). RwJCPENF (=6) flags cases where RwJCPEN is set to "no" based on the number of plans being zero.

If the Respondent is working for the same employer as in the previous wave and was included in a pension plan, then s/he is asked if the rules of the pension have changed. If the Respondent indicates that the rules have changed, s/he is asked the complete set of questions about newly reported pensions. If the rules have not changed, a limited number of follow-up questions about pension characteristics are asked, with the exception of Wave 7 where the Respondent is asked the complete set of questions regardless of whether the rules have changed. The Respondent may also deny having the pension.

If the Respondent is working for the same employer as in the previous wave, was included in a pension plan, and the rules have not changed, then RwJCPEN is assumed to be yes (=1), unless either the pension is denied, or the number of plans reported is zero and no plan type is given. If the Respondent denies having a pension, RwJCPEN is set to "zero," and RwJCPENF (=8 or 9) indicates the denial along with whether the data show the Respondent reporting a pension in the

previous wave. Whether or not the Respondent indicates a rules change, `RwJCPEN` is set to no (=0) if the number of plans reported is zero, and if no plan type information is reported. `RwJCPENF` (=2 or 5) indicates whether this was done, as well as whether a rules change was reported (=1, 2, or 3) or not (=4 or 5). If the number of plans reported is "zero" and any plan type information is provided, the presence of plan types are used to count the number of pensions, and `RwJCPENF` (=3) flags that this was done.

In some cases, information appears in both sets of questions, usually when the Respondent reports having more than three (or four) pensions for which the rules did not change. These cases are flagged by `RwJCPENF` (=7), and only the information associated with no rules change is used.

In Waves 9 and 10, the pension questionnaire changed. The skip patterns are less complicated, and less information is collected. We will not be including `RwJCPENF` from Wave 9 forward because everyone is asked if they have a pension on their current job right at the beginning of the section. So, unlike previous waves, there is only one way the Respondent is asked this question.

In Wave 11, the pension questionnaire changed again. It aims to establish a complete inventory of all pensions that the Respondent may have pertaining to current or any prior jobs. The Respondent is first asked about all pensions that he or she reported in a previous wave, as well as any new pensions the Respondent may have. This inventory of pensions is recorded in the data at the pension level so that in the 2012 data, one Respondent can have multiple observations depending on the number of past and current pensions s/he holds. We have aggregated these pension records to create Respondent-level variables that are derived for longitudinal comparison to the current pension. Plans are assigned as active or inactive (dead) based on their status for the purpose of controlling follow-up questions. In addition, blocks of questions are asked dependent upon whether a plan is from a new job or previous wave job. Going forward, `RwJCPEN` is set to yes (=1) if the Respondent indicates s/he is included in a pension plan on her/his current job or s/he money in a retirement account through her/his current job, and the plan is assigned as active. `RwJCPEN` is also set to yes (=1) if the Respondent reports an active pension that is not on the current job but has a valid job start date and a missing end date, indicating that the pension does refer to the current job. Lastly, `RwJCPEN` is set to yes (=1) when the Respondent has a new plan or a preloaded plan, and the Respondent is currently enrolled in a plan.

`RwJCPEN` is set to .W if skipped because the Respondent has no current job.

`RwJCPEN` is set to .M if the Respondent has a current job but did not respond to the pension questions.

`SwJCPEN` and `SwJCPENF` information is taken from the spouse's self-reported `RwJCPEN` and `RwJCPENF` variables, if available. If the Respondent is not married, `SwJCPEN` and `SwJCPENF` are set to .U=unmarried. If the Respondent's spouse did not respond, then `SwJCPEN` and `SwJCPENF` are set to .V=Spouse is non-response.

Because this question is not asked in Wave 2A, the variables are set to .Q.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, questions ask about the current job's pension. The wording differs depending on whether the Respondent is self-employed or not. For the self-employed, the question asks: "Aside from IRA or Keogh plans, are you included in any pension plans or tax-deferred savings plans through your work?" For those employed by a firm, the question asks: "Now I'd like to ask about pension or retirement plans on your job, sponsored by your employer or union. This includes not only basic pension or retirement plans, but also tax-deferred plans like thrift, savings, 401k, deferred profit-sharing, or stock ownership plans. Are you included in any such pension, retirement, or tax-deferred plan with this employer?"

In Wave 2H, 3H and from Wave 4 to Wave 11, those who are with the same employer and who reported having a pension at the previous wave are asked if the rules have changed. Those working who a) did not report a current job pension

in the previous wave or b) who changed jobs between waves are asked if they are included in a pension plan on the current job. The question wording differs depending on whether the Respondent is self-employed or not.

Those with a pension in a previous wave and who were employed by the same firm or self-employed in the current and previous waves are asked: "Have the rules that govern your pension benefits or the age you can receive them changed since [PREVIOUS WAVE MONTH/YEAR]?" For those employed by a new firm or employed by the same firm without a previous wave pension, the question is the same as that asked of firm employees in Wave 1. For those who are newly self-employed or still self-employed without a previous wave pension, the question is the same as that in Wave 1, preceded by the statement: "Now I'd like to ask about pension or retirement plans on your job."

For those employed by the same firm, or self-employed in the current and previous waves, who had a pension in a previous wave, question asks: "Have the rules that govern your pension benefits or the age you can receive them changed since [PREVIOUS WAVE MONTH/YEAR]?" For those employed by a new firm or employed by the same firm without a previous wave pension, the question is the same as that asked of firm employees in Wave 1. For those who are newly self-employed or still self-employed without a previous wave pension, the question is the same as that in Wave 1, preceded by the statement: "Now I'd like to ask about pension or retirement plans on your job."

The questions are not asked in Wave 2A.

In Wave 3A, only the questions about the current job's pension plan are asked, with the same wording as in Wave 1.

Except in Wave 7, a limited number of follow-up questions about pension characteristics are asked of those who: a) report working for the same employer as in the previous wave, b) were included in a pension plan at that time, and c) indicate that the rules have not changed. In Wave 7 only, the Respondent is asked the complete set of follow-up questions about the current job pension regardless of whether the rules have changed. In all waves, the complete set of questions is asked of all those who: a) report having a new current job pension, i.e., those who changed jobs or self-employment status between waves, b) did not report having a current job pension at the prior wave, c) report a rules change in the pension they had in the previous wave, or d) are new to the HRS study.

In Waves 9 and 10, the pension questionnaire changed. The skip patterns are less complicated and less information is collected. As a result, we are not including RwJCPENF for these later waves. All Respondents are asked at the beginning of the section if they have a pension from their current job. So, unlike previous waves, there is only one way the Respondent is asked this question.

Beginning in Wave 11, there was a major change as to how HRS records Respondents' pensions. The Respondent is no longer asked how many pensions s/he has. Instead we derive RwJCPEN from employment variables that ask if the Respondent has a pension on her/his current job in conjunction with questions that elicit an inventory of all pensions that the Respondent may have and indicates which pensions are active or inactive. We also use job start and end dates to determine if the pension is from the current employment.

## HRS Variables Used

HRS 1992:	
V2838	F36:PENSION PLANS
V2901	F37:PENS/RET PLNS ON JOB
HRS 1994:	
W3710	FA63.PENSION RULES CHANG
W3748	FA71.PLAN OFFERED BY EMP
W4375	FB26.PENSION/RETIREMENT
W4376	FB27.PENSION RULES CHANG

AHEAD 1995:  
D2928 GA63.PENSION RULES CHANGED  
D2955 GA71. WHETHER PENSION PLAN  
D3287 GB26.INCLUDED IN PENSION PLAN  
HRS 1996:  
E2835 G67.PENSION RULES CHANGED  
E2861 G75.PLAN OFFERED BY EMPLOYER  
HRS 1998:  
F3359 G67.PENSION RULES CHANGED  
F3389 G75.PLAN OFFERED BY EMPLOYER  
HRS 2000:  
G3619 G67.PENSION RULES CHANGED  
G3654 G75.PLAN OFFERED BY EMPLOYER  
HRS 2002:  
HJ268 PENSION RULES CHANGED  
HJ324 PLAN OFFERED BY EMPLOYER  
HRS 2004:  
JJ268 PENSION RULES CHANGED  
JJ324 PLAN OFFERED BY EMPLOYER  
HRS 2006:  
KJ268 PENSION RULES CHANGED  
KJ324 PLAN OFFERED BY EMPLOYER  
HRS 2008:  
LJ324 PLAN OFFERED BY EMPLOYER  
LJ848 FIRM/UNION OFFERS PENSION  
LJ849 PARTICIPATING IN PLAN  
HRS 2010:  
MJ848 FIRM/UNION OFFERS PENSION  
MJ849 PARTICIPATING IN PLAN  
HRS 2012:  
NJ2352\_1 YEARS IN PLAN -1\_1  
NJ2352\_10 YEARS IN PLAN -1\_10  
NJ2352\_2 YEARS IN PLAN -1\_2  
NJ2352\_3 YEARS IN PLAN -1\_3  
NJ2352\_4 YEARS IN PLAN -1\_4  
NJ2352\_5 YEARS IN PLAN -1\_5  
NJ2352\_6 YEARS IN PLAN -1\_6  
NJ2352\_7 YEARS IN PLAN -1\_7  
NJ2352\_8 YEARS IN PLAN -1\_8  
NJ2352\_9 YEARS IN PLAN -1\_9  
NJ2W401\_1 ANY OTHER PENSIONS\_1  
NJ2W401\_10 ANY OTHER PENSIONS\_10  
NJ2W401\_2 ANY OTHER PENSIONS\_2  
NJ2W401\_3 ANY OTHER PENSIONS\_3  
NJ2W401\_4 ANY OTHER PENSIONS\_4  
NJ2W401\_5 ANY OTHER PENSIONS\_5  
NJ2W401\_6 ANY OTHER PENSIONS\_6  
NJ2W401\_7 ANY OTHER PENSIONS\_7  
NJ2W401\_8 ANY OTHER PENSIONS\_8  
NJ2W401\_9 ANY OTHER PENSIONS\_9  
NJ2W403\_1 STILL HAVE PLAN NOW\_1  
NJ2W403\_10 STILL HAVE PLAN NOW\_10  
NJ2W403\_2 STILL HAVE PLAN NOW\_2  
NJ2W403\_3 STILL HAVE PLAN NOW\_3  
NJ2W403\_4 STILL HAVE PLAN NOW\_4  
NJ2W403\_5 STILL HAVE PLAN NOW\_5  
NJ2W403\_6 STILL HAVE PLAN NOW\_6  
NJ2W403\_7 STILL HAVE PLAN NOW\_7  
NJ2W403\_8 STILL HAVE PLAN NOW\_8

NJ2W403_9	STILL HAVE PLAN NOW_9
NJ2W410_1	BEGIN -1_1
NJ2W410_10	BEGIN -1_10
NJ2W410_2	BEGIN -1_2
NJ2W410_3	BEGIN -1_3
NJ2W410_4	BEGIN -1_4
NJ2W410_5	BEGIN -1_5
NJ2W410_6	BEGIN -1_6
NJ2W410_7	BEGIN -1_7
NJ2W410_8	BEGIN -1_8
NJ2W410_9	BEGIN -1_9
NJ2W411_1	END -1_1
NJ2W411_10	END -1_10
NJ2W411_2	END -1_2
NJ2W411_3	END -1_3
NJ2W411_4	END -1_4
NJ2W411_5	END -1_5
NJ2W411_6	END -1_6
NJ2W411_7	END -1_7
NJ2W411_8	END -1_8
NJ2W411_9	END -1_9
NJ2W451_1	PLAN ACTIVE OR DEAD -1_1
NJ2W451_10	PLAN ACTIVE OR DEAD -1_10
NJ2W451_2	PLAN ACTIVE OR DEAD -1_2
NJ2W451_3	PLAN ACTIVE OR DEAD -1_3
NJ2W451_4	PLAN ACTIVE OR DEAD -1_4
NJ2W451_5	PLAN ACTIVE OR DEAD -1_5
NJ2W451_6	PLAN ACTIVE OR DEAD -1_6
NJ2W451_7	PLAN ACTIVE OR DEAD -1_7
NJ2W451_8	PLAN ACTIVE OR DEAD -1_8
NJ2W451_9	PLAN ACTIVE OR DEAD -1_9
NJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB -1_1
NJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB -1_10
NJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB -1_2
NJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB -1_3
NJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB -1_4
NJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB -1_5
NJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB -1_6
NJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB -1_7
NJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB -1_8
NJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB -1_9
NJ849	PARTICIPATING IN PLAN
NJ851	FIRM HAS PEN ACCOUNT-NOT CONTRIBUTING
HRS 2014:	
OJ2352_1	YEARS IN PLAN_1
OJ2352_10	YEARS IN PLAN_10
OJ2352_2	YEARS IN PLAN_2
OJ2352_3	YEARS IN PLAN_3
OJ2352_4	YEARS IN PLAN_4
OJ2352_5	YEARS IN PLAN_5
OJ2352_6	YEARS IN PLAN_6
OJ2352_7	YEARS IN PLAN_7
OJ2352_8	YEARS IN PLAN_8
OJ2352_9	YEARS IN PLAN_9
OJ2W401_1	ANY OTHER PENSIONS_1
OJ2W401_10	ANY OTHER PENSIONS_10
OJ2W401_2	ANY OTHER PENSIONS_2
OJ2W401_3	ANY OTHER PENSIONS_3
OJ2W401_4	ANY OTHER PENSIONS_4

OJ2W401_5	ANY OTHER PENSIONS_5
OJ2W401_6	ANY OTHER PENSIONS_6
OJ2W401_7	ANY OTHER PENSIONS_7
OJ2W401_8	ANY OTHER PENSIONS_8
OJ2W401_9	ANY OTHER PENSIONS_9
OJ2W403_1	STILL HAVE PLAN NOW_1
OJ2W403_10	STILL HAVE PLAN NOW_10
OJ2W403_2	STILL HAVE PLAN NOW_2
OJ2W403_3	STILL HAVE PLAN NOW_3
OJ2W403_4	STILL HAVE PLAN NOW_4
OJ2W403_5	STILL HAVE PLAN NOW_5
OJ2W403_6	STILL HAVE PLAN NOW_6
OJ2W403_7	STILL HAVE PLAN NOW_7
OJ2W403_8	STILL HAVE PLAN NOW_8
OJ2W403_9	STILL HAVE PLAN NOW_9
OJ2W410_1	BEGIN_1
OJ2W410_10	BEGIN_10
OJ2W410_2	BEGIN_2
OJ2W410_3	BEGIN_3
OJ2W410_4	BEGIN_4
OJ2W410_5	BEGIN_5
OJ2W410_6	BEGIN_6
OJ2W410_7	BEGIN_7
OJ2W410_8	BEGIN_8
OJ2W410_9	BEGIN_9
OJ2W411_1	END_1
OJ2W411_10	END_10
OJ2W411_2	END_2
OJ2W411_3	END_3
OJ2W411_4	END_4
OJ2W411_5	END_5
OJ2W411_6	END_6
OJ2W411_7	END_7
OJ2W411_8	END_8
OJ2W411_9	END_9
OJ2W451_1	PLAN ACTIVE OR DEAD_1
OJ2W451_10	PLAN ACTIVE OR DEAD_10
OJ2W451_2	PLAN ACTIVE OR DEAD_2
OJ2W451_3	PLAN ACTIVE OR DEAD_3
OJ2W451_4	PLAN ACTIVE OR DEAD_4
OJ2W451_5	PLAN ACTIVE OR DEAD_5
OJ2W451_6	PLAN ACTIVE OR DEAD_6
OJ2W451_7	PLAN ACTIVE OR DEAD_7
OJ2W451_8	PLAN ACTIVE OR DEAD_8
OJ2W451_9	PLAN ACTIVE OR DEAD_9
OJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB_1
OJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB_10
OJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB_2
OJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB_3
OJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB_4
OJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB_5
OJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB_6
OJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB_7
OJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB_8
OJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB_9
OJ849	PARTICIPATING IN PLAN
OJ851	FIRM HAS PEN ACCOUNT-NOT CONTRIBUTING

<b>Number of pension plans from current job</b>
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Wave	Variable	Label	Type
1	R1PENCT	R1PENCT:W1 # pensions current job	Categ
2	R2PENCT	R2PENCT:W2 # pensions current job	Categ
3	R3PENCT	R3PENCT:W3 # pensions current job	Categ
4	R4PENCT	R4PENCT:W4 # pensions current job	Categ
5	R5PENCT	R5PENCT:W5 # pensions current job	Categ
6	R6PENCT	R6PENCT:W6 # pensions current job	Categ
7	R7PENCT	R7PENCT:W7 # pensions current job	Categ
8	R8PENCT	R8PENCT:W8 # pensions current job	Categ
9	R9PENCT	R9PENCT:W9 # pensions current job	Categ
10	R10PENCT	R10PENCT:W10 # pensions current job	Categ
11	R11PENCT	R11PENCT:W11 # pensions current job	Categ
12	R12PENCT	R12PENCT:W12 # pensions current job	Categ
1	S1PENCT	S1PENCT:W1 # pensions current job	Categ
2	S2PENCT	S2PENCT:W2 # pensions current job	Categ
3	S3PENCT	S3PENCT:W3 # pensions current job	Categ
4	S4PENCT	S4PENCT:W4 # pensions current job	Categ
5	S5PENCT	S5PENCT:W5 # pensions current job	Categ
6	S6PENCT	S6PENCT:W6 # pensions current job	Categ
7	S7PENCT	S7PENCT:W7 # pensions current job	Categ
8	S8PENCT	S8PENCT:W8 # pensions current job	Categ
9	S9PENCT	S9PENCT:W9 # pensions current job	Categ
10	S10PENCT	S10PENCT:W10 # pensions current job	Categ
11	S11PENCT	S11PENCT:W11 # pensions current job	Categ
12	S12PENCT	S12PENCT:W12 # pensions current job	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PENCT	4452	1.33	0.59	1.0	8.0
R2PENCT	3747	1.22	0.49	1.0	5.0
R3PENCT	3235	1.23	0.51	1.0	8.0
R4PENCT	3961	1.28	0.54	1.0	6.0
R5PENCT	3361	1.23	0.48	1.0	5.0
R6PENCT	2637	1.23	0.48	1.0	4.0
R7PENCT	3623	1.34	0.60	1.0	6.0
R8PENCT	2882	1.21	0.47	1.0	5.0
R9PENCT	2583	1.35	0.57	1.0	5.0
R10PENCT	4084	1.38	0.62	1.0	8.0
R11PENCT	3932	1.32	0.56	1.0	5.0
R12PENCT	3303	1.29	0.54	1.0	5.0
S1PENCT	3508	1.34	0.60	1.0	8.0
S2PENCT	2920	1.22	0.50	1.0	5.0
S3PENCT	2478	1.24	0.52	1.0	5.0
S4PENCT	3015	1.29	0.55	1.0	6.0
S5PENCT	2559	1.23	0.49	1.0	5.0
S6PENCT	1985	1.23	0.48	1.0	4.0
S7PENCT	2719	1.35	0.61	1.0	6.0
S8PENCT	2159	1.22	0.48	1.0	5.0
S9PENCT	1916	1.36	0.58	1.0	5.0
S10PENCT	2882	1.38	0.62	1.0	8.0
S11PENCT	2797	1.32	0.57	1.0	5.0
S12PENCT	2333	1.30	0.55	1.0	5.0



**Categorical Variable Codes**

Value	R1PENCT	R2PENCT	R3PENCT	R4PENCT	R5PENCT	R6PENCT	R7PENCT
.D=DK	1	18	28	43	35	30	29
.M=Oth missing			8	1	2		1
.Q=Not asked this wv		8222					
.R=RF	3	5	6	11	2	12	8
.S=No pen info	8196	7633	14642	17251	16114	15369	16381
.Z=No pen based on PENCT		17	72	117	65	117	87
1	3209	3050	2614	3002	2680	2105	2569
2	1058	606	533	833	614	477	898
3	161	73	72	110	56	48	130
4	18	15	13	12	8	7	18
5	3	3	2	3	3		6
6	2			1			2
8	1		1				

Value	R8PENCT	R9PENCT	R10PENCT	R11PENCT	R12PENCT
.D=DK	15	1			
.M=Oth missing	5				
.R=RF	4	1	7		
.S=No pen info	15452	14632	17943	16622	15444
.Z=No pen based on PENCT	111				
1	2325	1791	2755	2868	2466
2	503	692	1130	900	720
3	49	91	172	148	105
4	2	7	23	15	10
5	3	2		1	2
6			3		
8			1		

Value	S1PENCT	S2PENCT	S3PENCT	S4PENCT	S5PENCT	S6PENCT	S7PENCT
.D=DK	1	14	24	34	30	26	24
.M=Oth missing			6	1	1		1
.Q=Not asked this wv		4549					
.R=RF	3	3	4	9	2	7	3
.S=No pen info	6388	5787	9353	10828	10088	9536	10164
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.Z=No pen based on PENCT		15	50	91	50	85	61
1	2512	2363	1985	2259	2027	1574	1913
2	844	479	418	655	479	369	687
3	130	62	62	87	44	36	96
4	16	14	11	10	6	6	16
5	3	2	2	3	3		5
6	2			1			2
8	1						

Value	S8PENCT	S9PENCT	S10PENCT	S11PENCT	S12PENCT
.D=DK	10	1			
.M=Oth missing	4				
.R=RF	3	1	5		
.S=No pen info	9477	8728	10626	9691	8694
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.Z=No pen based on PENCT	82				
1	1735	1320	1944	2030	1729
2	379	517	796	644	515
3	40	71	124	112	81
4	2	6	15	10	7
5	3	2		1	1
6			2		
8			1		

## How Constructed

RwPENCT indicates the number of pension plans that the Respondent has from her/his current job. SwPENCT provides the information for the Respondent's spouse or partner.

If the Respondent indicates that s/he has a pension plan from the current job, s/he is asked for the number of plans. RwPENCT is set to the number of pension plans that the Respondent reports. If the Respondent reports zero plans but provides any pension type information, RwPENCT is set to the number of plans with pension type information.

RwPENCT is set to .S if the Respondent has no pension in the current job, is missing whether s/he has a pension, or is not working. It is set to .Z if the Respondent reports having zero pension plans and does not provide any plan type information. Note that in this situation, RwJCPEN is set to "no." From Wave 6 to Wave 9, if the Respondent does not know the number of plans, a follow-up question asks if it is more than one. If the response is one plan then RwPENCT is set to "1." If it is more than one, then RwPENCT is set to "2." Otherwise, RwPENCT is set to other missing values as appropriate based on the missing values coded in the HRS variables.

Until Wave 9, RwJCPENF indicates if RwPENCT is set based on the number of plans with pension type information or using the follow-up question about whether there is just one plan or more than one. The relevant RwJCPENF codes are 3, 10, and 11.

From Wave 9, RwJCPENF is not included in the RAND HRS Longitudinal File because, unlike previous waves, there is only one way the Respondent is asked if s/he has a pension on the current job.

In Wave 11, the pension questionnaire changed. In Wave 11, the Respondent is no longer asked the number of pension plans from the current job. Therefore, RwPENCT is constructed by using employment and pension questions that together identify the pension plan as being associated with the current job. We then sum these plans to get the total number of pension plans associated with the current job.

SwPENCT information is taken from the spouse's self-reported RwPENCT variable, if available. If the Respondent is not married, SwPENCT is set to .U=unmarried. If the Respondent's spouse did not respond, then SwPENCT is set to .V=Spouse is non-response.

Because this question is not asked in Wave 2A, the variables are set to .Q.

## Cross Wave Differences in Original HRS Data

In Wave 1, the Respondent is only asked about the number of pension plans if s/he reports being included in a pension plan associated with the current job. The question asks: "In how many different pension plans of this sort are you included on this job?"

In Wave 2H, 3H and from Wave 4 to Wave 10, those who are with the same employer and who reported having a pension at the previous wave are asked if the rules have changed. Except in Wave 7, if the Respondent reports no rules change, a question asks about the number of pensions: "In how many different pension plans are you included on this job?". From Wave 2 to Wave 9, including Wave 7, if there is no rules change or if there is no prior wave pension with the current employer but the Respondent reports one in the current wave, the question wording for the number of pensions is the same as that asked in Wave 1. RwJCPENF indicates the source of the pension information (rules change, no rules change, or, if no additional information, for a new pension). From Wave 9, RwJCPENF is not included in the RAND HRS Longitudinal File because, unlike previous waves, there is only one way the Respondent is asked if s/he has a pension on the current job.

In Wave 2H, the questions are asked separately for those employed by a firm and the self-employed, but the question

wording is the same for both.

In Wave 3A, only the questions about the current job's pension plans are asked, and they are asked in two places. The wording in both places is the same as in Wave 1.

The questions are not asked in Wave 2A.

From Wave 6 to Wave 10, those who do not know the number of pensions are asked a follow-up question: "Is this just one plan or more than one?" The answers may be one plan or more than one plan.

In Wave 7, values 8 and 9 are missing value codes and so it is not possible for anyone to have more than 7 pension plans. In other waves, the missing value codes are 98 and 99.

In Wave 11, the pension questionnaire changed. It aims to establish a complete inventory of all pension plans that the Respondent may have associated with the current or any previous jobs. The Respondent is first asked about all pensions that s/he reported in a previous wave, as well as any new pensions the Respondent may have. This inventory of pensions is recorded in the data at the pension level so that in the 2012 data, one Respondent can have multiple observations depending on the number of past and current pension plans s/he holds. We have aggregated these pension records to create Respondent-level variables that are derived for longitudinal comparison to the current pension variables.

Because the Respondent is no longer asked how many pensions he or she has, RwPENCT is constructed by using employment and pension questions that together identify the pension as being associated with the current job. We then sum these pensions to get the total number of pension plans associated with the current job.

## HRS Variables Used

HRS 1992:	
V2838	F36:PENSION PLANS
V2901	F37:PENS/RET PLNS ON JOB
V2908	F38:# PLNS INCLD ON JB
HRS 1994:	
W3710	FA63.PENSION RULES CHANG
W3711	FA64.NUMBER PENSION PLAN
W3748	FA71.PLAN OFFERED BY EMP
W3755	FA72.NUMBER PENSION PLAN
W4375	FB26.PENSION/RETIREMENT
W4376	FB27.PENSION RULES CHANG
W4377	FB28.NUMBER PENSION PLAN
W4414	FB36.NUMBER PENSION PLAN
AHEAD 1995:	
D2928	GA63.PENSION RULES CHANGED
D2955	GA71. WHETHER PENSION PLAN
D2964	GA72. NUMBER PENSION PLANS
D3287	GB26.INCLUDED IN PENSION PLAN
D3325	GB36. NUMBER PENSION PLANS
HRS 1996:	
E2835	G67.PENSION RULES CHANGED
E2837	G68.NUMBER PENSION PLANS
E2861	G75.PLAN OFFERED BY EMPLOYER
E2870	G76.NUMBER PENSION PLANS INCLUDED
HRS 1998:	
F3359	G67.PENSION RULES CHANGED
F3361	G68.NUMBER PENSION PLANS
F3389	G75.PLAN OFFERED BY EMPLOYER

F3398	G76.NUMBER PENSION PLANS INCLUDED
HRS 2000:	
G3619	G67.PENSION RULES CHANGED
G3621	G68.NUMBER PENSION PLANS
G3654	G75.PLAN OFFERED BY EMPLOYER
G3678	G76.NUMBER PENSION PLANS INCLUDED
HRS 2002:	
HJ265	J265 BRANCHPOINT
HJ268	PENSION RULES CHANGED
HJ269	CURRENT JOB- # PENSION PLANS
HJ270	CURRENT JOB- ONE PLAN OR MORE
HJ324	PLAN OFFERED BY EMPLOYER
HJ335	# PENSION PLANS INCLUDED
HJ336	INCLUDED ONE PLAN OR MORE
HRS 2004:	
JJ265	J265 BRANCHPOINT
JJ268	PENSION RULES CHANGED
JJ324	PLAN OFFERED BY EMPLOYER
JJ335	# PENSION PLANS INCLUDED
JJ336	INCLUDED ONE PLAN OR MORE
HRS 2006:	
KJ265	J265 BRANCHPOINT
KJ268	PENSION RULES CHANGED
KJ269	CURRENT JOB- # PENSION PLANS
KJ270	CURRENT JOB- ONE PLAN OR MORE
KJ324	PLAN OFFERED BY EMPLOYER
KJ335	# PENSION PLANS INCLUDED
KJ336	INCLUDED ONE PLAN OR MORE
HRS 2008:	
LJ335	# PENSION PLANS INCLUDED
LJ336	INCLUDED ONE PLAN OR MORE
HRS 2010:	
MJ335	# PENSION PLANS INCLUDED
MJ336	INCLUDED ONE PLAN OR MORE
HRS 2012:	
NJ2352_1	YEARS IN PLAN -1_1
NJ2352_10	YEARS IN PLAN -1_10
NJ2352_2	YEARS IN PLAN -1_2
NJ2352_3	YEARS IN PLAN -1_3
NJ2352_4	YEARS IN PLAN -1_4
NJ2352_5	YEARS IN PLAN -1_5
NJ2352_6	YEARS IN PLAN -1_6
NJ2352_7	YEARS IN PLAN -1_7
NJ2352_8	YEARS IN PLAN -1_8
NJ2352_9	YEARS IN PLAN -1_9
NJ2W401_1	ANY OTHER PENSIONS_1
NJ2W401_10	ANY OTHER PENSIONS_10
NJ2W401_2	ANY OTHER PENSIONS_2
NJ2W401_3	ANY OTHER PENSIONS_3
NJ2W401_4	ANY OTHER PENSIONS_4
NJ2W401_5	ANY OTHER PENSIONS_5
NJ2W401_6	ANY OTHER PENSIONS_6
NJ2W401_7	ANY OTHER PENSIONS_7
NJ2W401_8	ANY OTHER PENSIONS_8
NJ2W401_9	ANY OTHER PENSIONS_9
NJ2W403_1	STILL HAVE PLAN NOW_1
NJ2W403_10	STILL HAVE PLAN NOW_10
NJ2W403_2	STILL HAVE PLAN NOW_2
NJ2W403_3	STILL HAVE PLAN NOW_3

NJ2W403_4	STILL HAVE PLAN NOW_4
NJ2W403_5	STILL HAVE PLAN NOW_5
NJ2W403_6	STILL HAVE PLAN NOW_6
NJ2W403_7	STILL HAVE PLAN NOW_7
NJ2W403_8	STILL HAVE PLAN NOW_8
NJ2W403_9	STILL HAVE PLAN NOW_9
NJ2W410_1	BEGIN -1_1
NJ2W410_10	BEGIN -1_10
NJ2W410_2	BEGIN -1_2
NJ2W410_3	BEGIN -1_3
NJ2W410_4	BEGIN -1_4
NJ2W410_5	BEGIN -1_5
NJ2W410_6	BEGIN -1_6
NJ2W410_7	BEGIN -1_7
NJ2W410_8	BEGIN -1_8
NJ2W410_9	BEGIN -1_9
NJ2W411_1	END -1_1
NJ2W411_10	END -1_10
NJ2W411_2	END -1_2
NJ2W411_3	END -1_3
NJ2W411_4	END -1_4
NJ2W411_5	END -1_5
NJ2W411_6	END -1_6
NJ2W411_7	END -1_7
NJ2W411_8	END -1_8
NJ2W411_9	END -1_9
NJ2W451_1	PLAN ACTIVE OR DEAD -1_1
NJ2W451_10	PLAN ACTIVE OR DEAD -1_10
NJ2W451_2	PLAN ACTIVE OR DEAD -1_2
NJ2W451_3	PLAN ACTIVE OR DEAD -1_3
NJ2W451_4	PLAN ACTIVE OR DEAD -1_4
NJ2W451_5	PLAN ACTIVE OR DEAD -1_5
NJ2W451_6	PLAN ACTIVE OR DEAD -1_6
NJ2W451_7	PLAN ACTIVE OR DEAD -1_7
NJ2W451_8	PLAN ACTIVE OR DEAD -1_8
NJ2W451_9	PLAN ACTIVE OR DEAD -1_9
NJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB -1_1
NJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB -1_10
NJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB -1_2
NJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB -1_3
NJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB -1_4
NJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB -1_5
NJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB -1_6
NJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB -1_7
NJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB -1_8
NJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB -1_9
NJ849	PARTICIPATING IN PLAN
NJ851	FIRM HAS PEN ACCOUNT-NOT CONTRIBUTING
HRS 2014:	
OJ2352_1	YEARS IN PLAN_1
OJ2352_10	YEARS IN PLAN_10
OJ2352_2	YEARS IN PLAN_2
OJ2352_3	YEARS IN PLAN_3
OJ2352_4	YEARS IN PLAN_4
OJ2352_5	YEARS IN PLAN_5
OJ2352_6	YEARS IN PLAN_6
OJ2352_7	YEARS IN PLAN_7
OJ2352_8	YEARS IN PLAN_8
OJ2352_9	YEARS IN PLAN_9

OJ2W401_1	ANY OTHER PENSIONS_1
OJ2W401_10	ANY OTHER PENSIONS_10
OJ2W401_2	ANY OTHER PENSIONS_2
OJ2W401_3	ANY OTHER PENSIONS_3
OJ2W401_4	ANY OTHER PENSIONS_4
OJ2W401_5	ANY OTHER PENSIONS_5
OJ2W401_6	ANY OTHER PENSIONS_6
OJ2W401_7	ANY OTHER PENSIONS_7
OJ2W401_8	ANY OTHER PENSIONS_8
OJ2W401_9	ANY OTHER PENSIONS_9
OJ2W403_1	STILL HAVE PLAN NOW_1
OJ2W403_10	STILL HAVE PLAN NOW_10
OJ2W403_2	STILL HAVE PLAN NOW_2
OJ2W403_3	STILL HAVE PLAN NOW_3
OJ2W403_4	STILL HAVE PLAN NOW_4
OJ2W403_5	STILL HAVE PLAN NOW_5
OJ2W403_6	STILL HAVE PLAN NOW_6
OJ2W403_7	STILL HAVE PLAN NOW_7
OJ2W403_8	STILL HAVE PLAN NOW_8
OJ2W403_9	STILL HAVE PLAN NOW_9
OJ2W410_1	BEGIN_1
OJ2W410_10	BEGIN_10
OJ2W410_2	BEGIN_2
OJ2W410_3	BEGIN_3
OJ2W410_4	BEGIN_4
OJ2W410_5	BEGIN_5
OJ2W410_6	BEGIN_6
OJ2W410_7	BEGIN_7
OJ2W410_8	BEGIN_8
OJ2W410_9	BEGIN_9
OJ2W411_1	END_1
OJ2W411_10	END_10
OJ2W411_2	END_2
OJ2W411_3	END_3
OJ2W411_4	END_4
OJ2W411_5	END_5
OJ2W411_6	END_6
OJ2W411_7	END_7
OJ2W411_8	END_8
OJ2W411_9	END_9
OJ2W451_1	PLAN ACTIVE OR DEAD_1
OJ2W451_10	PLAN ACTIVE OR DEAD_10
OJ2W451_2	PLAN ACTIVE OR DEAD_2
OJ2W451_3	PLAN ACTIVE OR DEAD_3
OJ2W451_4	PLAN ACTIVE OR DEAD_4
OJ2W451_5	PLAN ACTIVE OR DEAD_5
OJ2W451_6	PLAN ACTIVE OR DEAD_6
OJ2W451_7	PLAN ACTIVE OR DEAD_7
OJ2W451_8	PLAN ACTIVE OR DEAD_8
OJ2W451_9	PLAN ACTIVE OR DEAD_9
OJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB_1
OJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB_10
OJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB_2
OJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB_3
OJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB_4
OJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB_5
OJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB_6
OJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB_7
OJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB_8

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OJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB_9
OJ849	PARTICIPATING IN PLAN
OJ851	FIRM HAS PEN ACCOUNT-NOT CONTRIBUTING

<b>Type of pension plan from current job</b>
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1	R1PTY1	R1PTY1:W1 Current pension type #1	Categ
2	R2PTY1	R2PTY1:W2 Current pension type #1	Categ
3	R3PTY1	R3PTY1:W3 Current pension type #1	Categ
4	R4PTY1	R4PTY1:W4 Current pension type #1	Categ
5	R5PTY1	R5PTY1:W5 Current pension type #1	Categ
6	R6PTY1	R6PTY1:W6 Current pension type #1	Categ
7	R7PTY1	R7PTY1:W7 Current pension type #1	Categ
8	R8PTY1	R8PTY1:W8 Current pension type #1	Categ
9	R9PTY1	R9PTY1:W9 Current pension type #1	Categ
10	R10PTY1	R10PTY1:W10 Current pension type #1	Categ
11	R11PTY1	R11PTY1:W11 Current pension type #1	Categ
12	R12PTY1	R12PTY1:W12 Current pension type #1	Categ
1	S1PTY1	S1PTY1:W1 Current pension type #1	Categ
2	S2PTY1	S2PTY1:W2 Current pension type #1	Categ
3	S3PTY1	S3PTY1:W3 Current pension type #1	Categ
4	S4PTY1	S4PTY1:W4 Current pension type #1	Categ
5	S5PTY1	S5PTY1:W5 Current pension type #1	Categ
6	S6PTY1	S6PTY1:W6 Current pension type #1	Categ
7	S7PTY1	S7PTY1:W7 Current pension type #1	Categ
8	S8PTY1	S8PTY1:W8 Current pension type #1	Categ
9	S9PTY1	S9PTY1:W9 Current pension type #1	Categ
10	S10PTY1	S10PTY1:W10 Current pension type #1	Categ
11	S11PTY1	S11PTY1:W11 Current pension type #1	Categ
12	S12PTY1	S12PTY1:W12 Current pension type #1	Categ
1	R1PTY2	R1PTY2:W1 Current pension type #2	Categ
2	R2PTY2	R2PTY2:W2 Current pension type #2	Categ
3	R3PTY2	R3PTY2:W3 Current pension type #2	Categ
4	R4PTY2	R4PTY2:W4 Current pension type #2	Categ
5	R5PTY2	R5PTY2:W5 Current pension type #2	Categ
6	R6PTY2	R6PTY2:W6 Current pension type #2	Categ
7	R7PTY2	R7PTY2:W7 Current pension type #2	Categ
8	R8PTY2	R8PTY2:W8 Current pension type #2	Categ
9	R9PTY2	R9PTY2:W9 Current pension type #2	Categ
10	R10PTY2	R10PTY2:W10 Current pension type #2	Categ
11	R11PTY2	R11PTY2:W11 Current pension type #2	Categ
12	R12PTY2	R12PTY2:W12 Current pension type #2	Categ
1	S1PTY2	S1PTY2:W1 Current pension type #2	Categ
2	S2PTY2	S2PTY2:W2 Current pension type #2	Categ
3	S3PTY2	S3PTY2:W3 Current pension type #2	Categ
4	S4PTY2	S4PTY2:W4 Current pension type #2	Categ
5	S5PTY2	S5PTY2:W5 Current pension type #2	Categ
6	S6PTY2	S6PTY2:W6 Current pension type #2	Categ
7	S7PTY2	S7PTY2:W7 Current pension type #2	Categ
8	S8PTY2	S8PTY2:W8 Current pension type #2	Categ
9	S9PTY2	S9PTY2:W9 Current pension type #2	Categ
10	S10PTY2	S10PTY2:W10 Current pension type #2	Categ
11	S11PTY2	S11PTY2:W11 Current pension type #2	Categ
12	S12PTY2	S12PTY2:W12 Current pension type #2	Categ
1	R1PTY3	R1PTY3:W1 Current pension type #3	Categ
2	R2PTY3	R2PTY3:W2 Current pension type #3	Categ
3	R3PTY3	R3PTY3:W3 Current pension type #3	Categ
4	R4PTY3	R4PTY3:W4 Current pension type #3	Categ
5	R5PTY3	R5PTY3:W5 Current pension type #3	Categ
6	R6PTY3	R6PTY3:W6 Current pension type #3	Categ
7	R7PTY3	R7PTY3:W7 Current pension type #3	Categ
8	R8PTY3	R8PTY3:W8 Current pension type #3	Categ
9	R9PTY3	R9PTY3:W9 Current pension type #3	Categ
10	R10PTY3	R10PTY3:W10 Current pension type #3	Categ
11	R11PTY3	R11PTY3:W11 Current pension type #3	Categ
12	R12PTY3	R12PTY3:W12 Current pension type #3	Categ
1	S1PTY3	S1PTY3:W1 Current pension type #3	Categ
2	S2PTY3	S2PTY3:W2 Current pension type #3	Categ
3	S3PTY3	S3PTY3:W3 Current pension type #3	Categ



4	S4PTYP3	S4PTYP3:W4 Current pension type #3	Categ
5	S5PTYP3	S5PTYP3:W5 Current pension type #3	Categ
6	S6PTYP3	S6PTYP3:W6 Current pension type #3	Categ
7	S7PTYP3	S7PTYP3:W7 Current pension type #3	Categ
8	S8PTYP3	S8PTYP3:W8 Current pension type #3	Categ
9	S9PTYP3	S9PTYP3:W9 Current pension type #3	Categ
10	S10PTYP3	S10PTYP3:W10 Current pension type #3	Categ
11	S11PTYP3	S11PTYP3:W11 Current pension type #3	Categ
12	S12PTYP3	S12PTYP3:W12 Current pension type #3	Categ
5	R5PTYP4	R5PTYP4:W5 Current pension type #4	Categ
6	R6PTYP4	R6PTYP4:W6 Current pension type #4	Categ
7	R7PTYP4	R7PTYP4:W7 Current pension type #4	Categ
8	R8PTYP4	R8PTYP4:W8 Current pension type #4	Categ
9	R9PTYP4	R9PTYP4:W9 Current pension type #4	Categ
10	R10PTYP4	R10PTYP4:W10 Current pension type #4	Categ
11	R11PTYP4	R11PTYP4:W11 Current pension type #4	Categ
12	R12PTYP4	R12PTYP4:W12 Current pension type #4	Categ
5	S5PTYP4	S5PTYP4:W5 Current pension type #4	Categ
6	S6PTYP4	S6PTYP4:W6 Current pension type #4	Categ
7	S7PTYP4	S7PTYP4:W7 Current pension type #4	Categ
8	S8PTYP4	S8PTYP4:W8 Current pension type #4	Categ
9	S9PTYP4	S9PTYP4:W9 Current pension type #4	Categ
10	S10PTYP4	S10PTYP4:W10 Current pension type #4	Categ
11	S11PTYP4	S11PTYP4:W11 Current pension type #4	Categ
12	S12PTYP4	S12PTYP4:W12 Current pension type #4	Categ

## Descriptive Statistics

R1PTYP1	4354	1.41	0.55	1.0	3.0
R2PTYP1	3684	1.48	0.61	1.0	3.0
R3PTYP1	3172	1.58	0.64	1.0	3.0
R4PTYP1	3875	1.63	0.64	1.0	3.0
R5PTYP1	3238	1.59	0.59	1.0	3.0
R6PTYP1	2559	1.64	0.61	1.0	3.0
R7PTYP1	3537	1.66	0.59	1.0	3.0
R8PTYP1	2810	1.65	0.58	1.0	3.0
R9PTYP1	2413	1.69	0.53	1.0	3.0
R10PTYP1	3902	1.63	0.53	1.0	3.0
R11PTYP1	3416	1.79	0.59	1.0	3.0
R12PTYP1	2975	1.74	0.53	1.0	3.0
S1PTYP1	3431	1.41	0.55	1.0	3.0
S2PTYP1	2871	1.48	0.62	1.0	3.0
S3PTYP1	2426	1.59	0.64	1.0	3.0
S4PTYP1	2961	1.64	0.64	1.0	3.0
S5PTYP1	2465	1.59	0.59	1.0	3.0
S6PTYP1	1930	1.65	0.61	1.0	3.0
S7PTYP1	2654	1.67	0.59	1.0	3.0
S8PTYP1	2107	1.66	0.58	1.0	3.0
S9PTYP1	1803	1.69	0.53	1.0	3.0
S10PTYP1	2762	1.63	0.53	1.0	3.0
S11PTYP1	2453	1.80	0.58	1.0	3.0
S12PTYP1	2119	1.75	0.52	1.0	3.0
R1PTYP2	1229	1.85	0.39	1.0	3.0
R2PTYP2	677	1.75	0.54	1.0	3.0
R3PTYP2	598	1.80	0.52	1.0	3.0
R4PTYP2	931	1.77	0.55	1.0	3.0
R5PTYP2	652	1.70	0.49	1.0	3.0

R6PTYP2	502	1.76	0.55	1.0	3.0
R7PTYP2	1025	1.77	0.50	1.0	3.0
R8PTYP2	532	1.77	0.46	1.0	3.0
R9PTYP2	708	1.73	0.47	1.0	3.0
R10PTYP2	1203	1.70	0.49	1.0	3.0
R11PTYP2	950	1.73	0.62	1.0	3.0
R12PTYP2	785	1.69	0.55	1.0	3.0
S1PTYP2	986	1.85	0.39	1.0	3.0
S2PTYP2	540	1.74	0.55	1.0	3.0
S3PTYP2	477	1.81	0.52	1.0	3.0
S4PTYP2	736	1.77	0.54	1.0	3.0
S5PTYP2	512	1.69	0.49	1.0	3.0
S6PTYP2	389	1.74	0.54	1.0	3.0
S7PTYP2	783	1.77	0.51	1.0	3.0
S8PTYP2	405	1.76	0.48	1.0	3.0
S9PTYP2	535	1.74	0.47	1.0	3.0
S10PTYP2	857	1.70	0.49	1.0	3.0
S11PTYP2	690	1.73	0.62	1.0	3.0
S12PTYP2	568	1.69	0.55	1.0	3.0
R1PTYP3	176	1.93	0.30	1.0	3.0
R2PTYP3	80	1.86	0.63	1.0	3.0
R3PTYP3	75	1.87	0.50	1.0	3.0
R4PTYP3	116	1.70	0.55	1.0	3.0
R5PTYP3	58	1.71	0.50	1.0	3.0
R6PTYP3	47	1.79	0.59	1.0	3.0
R7PTYP3	139	1.74	0.49	1.0	3.0
R8PTYP3	48	1.77	0.47	1.0	3.0
R9PTYP3	82	1.77	0.50	1.0	3.0
R10PTYP3	147	1.76	0.43	1.0	2.0
R11PTYP3	144	1.69	0.60	1.0	3.0
R12PTYP3	107	1.82	0.51	1.0	3.0
S1PTYP3	143	1.92	0.32	1.0	3.0
S2PTYP3	69	1.87	0.62	1.0	3.0
S3PTYP3	62	1.89	0.48	1.0	3.0
S4PTYP3	92	1.70	0.55	1.0	3.0
S5PTYP3	46	1.63	0.53	1.0	3.0
S6PTYP3	36	1.81	0.58	1.0	3.0
S7PTYP3	107	1.72	0.49	1.0	3.0
S8PTYP3	41	1.78	0.47	1.0	3.0
S9PTYP3	66	1.77	0.52	1.0	3.0
S10PTYP3	105	1.77	0.42	1.0	2.0
S11PTYP3	108	1.69	0.59	1.0	3.0
S12PTYP3	81	1.80	0.53	1.0	3.0
R5PTYP4	10	1.70	0.48	1.0	2.0
R6PTYP4	5	1.60	0.55	1.0	2.0
R7PTYP4	23	1.87	0.46	1.0	3.0
R8PTYP4	4	1.25	0.50	1.0	2.0
R9PTYP4	6	2.00	0.63	1.0	3.0
R10PTYP4	10	1.70	0.48	1.0	2.0
R11PTYP4	15	1.67	0.72	1.0	3.0
R12PTYP4	10	1.60	0.52	1.0	2.0
S5PTYP4	8	1.75	0.46	1.0	2.0
S6PTYP4	5	1.60	0.55	1.0	2.0
S7PTYP4	21	1.86	0.48	1.0	3.0

S8PTYP4	4	1.25	0.50	1.0	2.0
S9PTYP4	5	1.80	0.45	1.0	2.0
S10PTYP4	6	1.83	0.41	1.0	2.0
S11PTYP4	11	1.64	0.67	1.0	3.0
S12PTYP4	7	1.71	0.49	1.0	2.0

### Categorical Variable Codes

Value	R1PTYP1	R2PTYP1	R3PTYP1	R4PTYP1	R5PTYP1	R6PTYP1	R7PTYP1
.D=DK	93	61	48	83	121	76	84
.M=Oth missing			7	1			
.Q=Not asked this wv		8222					
.R=RF	9	15	8	2	2	2	2
.S=No pen info	8196	7660	14756	17423	16218	15528	16506
1.DB	2703	2146	1598	1776	1495	1107	1420
2.DC	1511	1308	1321	1763	1570	1265	1905
3.DB+DC	140	230	253	336	173	187	212

Value	R8PTYP1	R9PTYP1	R10PTYP1	R11PTYP1	R12PTYP1
.D=DK	69	160	165	488	256
.M=Oth missing			8		23
.R=RF	3	10	9	28	49
.S=No pen info	15587	14634	17950	16622	15444
1.DB	1153	833	1534	1019	903
2.DC	1499	1497	2266	2090	1934
3.DB+DC	158	83	102	307	138

Value	S1PTYP1	S2PTYP1	S3PTYP1	S4PTYP1	S5PTYP1	S6PTYP1	S7PTYP1
.D=DK	75	47	40	53	92	54	63
.M=Oth missing			5				
.Q=Not asked this wv		4549					
.R=RF	6	13	7	1	2	1	2
.S=No pen info	6388	5808	9437	10963	10171	9654	10253
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
1.DB	2132	1676	1199	1327	1140	825	1043
2.DC	1191	1010	1025	1367	1196	964	1446
3.DB+DC	108	185	202	267	129	141	165

Value	S8PTYP1	S9PTYP1	S10PTYP1	S11PTYP1	S12PTYP1
.D=DK	49	106	109	326	164
.M=Oth missing			4		18
.R=RF	3	7	7	18	32
.S=No pen info	9576	8730	10631	9691	8694
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.DB	842	613	1088	716	626
2.DC	1143	1129	1608	1522	1403
3.DB+DC	122	61	66	215	90

Value	R1PTYP2	R2PTYP2	R3PTYP2	R4PTYP2	R5PTYP2	R6PTYP2	R7PTYP2
.D=DK	15	14	17	18	26	22	28
.M=Oth missing			1	1		2	
.Q=Not asked this wv		8222					
.R=RF	4	6	6	12	3	6	1
.S=No pen info	11404	10723	17369	20422	18898	17633	19075
1.DB	199	204	153	274	203	150	271
2.DC	1017	440	412	599	440	323	714
3.DB+DC	13	33	33	58	9	29	40

Value	R8PTYP2	R9PTYP2	R10PTYP2	R11PTYP2	R12PTYP2
.D=DK	20	80	70	105	42
.M=Oth missing	1	1	42		3
.R=RF	4	3	14	9	7
.S=No pen info	17912	16425	20705	19490	17910
1.DB	131	197	383	344	283
2.DC	391	502	803	520	466
3.DB+DC	10	9	17	86	36

Value	S1PTYP2	S2PTYP2	S3PTYP2	S4PTYP2	S5PTYP2	S6PTYP2	S7PTYP2
.D=DK	10	12	10	14	18	16	22
.M=Oth missing			1	1		2	
.Q=Not asked this wv		4549					
.R=RF	4	5	6	8	2	4	1
.S=No pen info	8900	8182	11421	13219	12198	11228	12166
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
1.DB	161	167	119	214	166	121	212
2.DC	815	344	331	479	339	249	540
3.DB+DC	10	29	27	43	7	19	31

Value	S8PTYP2	S9PTYP2	S10PTYP2	S11PTYP2	S12PTYP2
.D=DK	15	59	44	70	29
.M=Oth missing	1	1	29		3
.R=RF	3	1	8	7	4
.S=No pen info	11311	10050	12575	11721	10423
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.DB	107	145	268	250	199
2.DC	289	382	578	377	344
3.DB+DC	9	8	11	63	25

Value	R1PTYP3	R2PTYP3	R3PTYP3	R4PTYP3	R5PTYP3	R6PTYP3	R7PTYP3
.D=DK	9	9	7	12	8	4	14
.M=Oth missing			2	1		2	
.Q=Not asked this wv		8222					
.R=RF	4	2	6	4	1	2	3
.S=No pen info	12463	11329	17901	21251	19512	18110	19973
1.DB	15	22	15	40	18	14	39
2.DC	159	47	55	71	39	29	97
3.DB+DC	2	11	5	5	1	4	3

Value	R8PTYP3	R9PTYP3	R10PTYP3	R11PTYP3	R12PTYP3
.D=DK	3	12	17	17	7
.M=Oth missing	1		28		
.R=RF	2	6	7	3	3
.S=No pen info	18415	17117	21835	20390	18630
1.DB	12	22	35	55	25
2.DC	35	57	112	79	76
3.DB+DC	1	3		10	6

Value	S1PTYP3	S2PTYP3	S3PTYP3	S4PTYP3	S5PTYP3	S6PTYP3	S7PTYP3
.D=DK	9	7	7	11	7	3	11
.M=Oth missing			2			1	
.Q=Not asked this wv		4549					
.R=RF	4	2	6	4		2	1
.S=No pen info	9744	8661	11838	13871	12677	11597	12853
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
1.DB	13	18	11	32	18	10	32
2.DC	128	42	47	56	27	23	73
3.DB+DC	2	9	4	4	1	3	2

Value	S8PTYP3	S9PTYP3	S10PTYP3	S11PTYP3	S12PTYP3
.D=DK	1	8	13	13	5
.M=Oth missing	1		18		
.R=RF	2	5	6	2	3
.S=No pen info	11690	10567	13371	12365	10938
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.DB	10	18	24	40	21
2.DC	30	45	81	61	55
3.DB+DC	1	3		7	5

Value	R5PTYP4	R6PTYP4	R7PTYP4
.D=DK		1	3
.M=Oth missing	1	1	
.S=No pen info	19568	18158	20103
1.DB	3	2	4
2.DC	7	3	18
3.DB+DC			1

Value	R8PTYP4	R9PTYP4	R10PTYP4	R11PTYP4	R12PTYP4
.D=DK	1	3	6	1	1
.M=Oth missing			10		
.R=RF			1		1
.S=No pen info	18464	17208	22007	20538	18735
1.DB	3	1	3	7	4
2.DC	1	4	7	6	6
3.DB+DC		1		2	

Value	S5PTYP4	S6PTYP4	S7PTYP4
.D=DK			2
.M=Oth missing	1	1	
.S=No pen info	12721	11633	12949
.U=Unmarried	6538	6306	6777
.V=Spouse NR	311	220	380
1.DB	2	2	4
2.DC	6	3	16
3.DB+DC			1

Value	S8PTYP4	S9PTYP4	S10PTYP4	S11PTYP4	S12PTYP4
.D=DK	1	3	3		1
.M=Oth missing			8		
.R=RF			1		
.S=No pen info	11730	10638	13495	12477	11019
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.DB	3	1	1	5	2
2.DC	1	4	5	5	5
3.DB+DC				1	

## How Constructed

RwPTYP1, RwPTYP2, RwPTYP3 and RwPTYP4 indicate the types of pension plans in which the Respondent is included at her/his current job. Before Wave 5, the Respondent may report the type of up to three pension plans. From Wave 5 through Wave 10, the Respondent may report the type of up to four pension plans. SwPTYP1, SwPTYP2, SwPTYP3 and SwPTYP4 provide this information for the Respondent's spouse or partner. From Wave 11 forward, the Respondent can report the type of an unlimited number of pension plans, but we limit the RAND HRS Longitudinal File to the first four reported plans to align with previous waves.

If the Respondent is included in a pension through her/his current job then s/he is asked for the type of plan. The Respondent may identify the plan type as Type A, Type B, or both. A Type A plan refers to a defined benefit (DB) plan, and a Type B plan refers to a defined contribution (DC) plan. RwPTYP1, RwPTYP2, RwPTYP3 and RwPTYP4 are set to the types of pensions that the Respondent reports. The plan type is simply recoded for missing values. It is set to .S if the Respondent does not have the pension, e.g., if the Respondent has one pension, RwPTYP2 and RwPTYP3 (or RwPTYP4 from Wave 5 on) are set to .S. They are also set to .S if the Respondent does not have a pension associated with the current job, did not provide a number of pensions (for waves prior to Wave 11), or is not working.

SwPTYP1, SwPTYP2, SwPTYP3 and SwPTYP4 information is taken from the spouse's self-reported RwPTYP1, RwPTYP2, RwPTYP3 and RwPTYP4 variables, if available. If the Respondent is not married, SwPTYP1, SwPTYP2, SwPTYP3 and SwPTYP4 are set to .U=unmarried. If the Respondent's spouse did not respond then SwPTYP1, SwPTYP2, SwPTYP3 and SwPTYP4 are set to .V=Spouse is non-response.

Because this question is not asked in Wave 2A, the variables are set to .Q.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, if the Respondent reports having a pension(s) from the current job, the number of pensions is ascertained, and the type of pension is requested for up to three pensions. The question asks: "I would like to know what type of plan this is. In some retirement plans, Type A, benefits are usually based on a formula involving age, years of service and salary. In other plans, Type B, money is accumulated in an account for you. Is your plan Type A or Type B?" The response may be Type A, Type B, or both. Type A refers to a defined benefits (DB) plan, and Type B refers to a defined contributions (DC) plan.

If the Respondent has more than one plan, for subsequent plans the question is preceded by the phrase: "About the (next) most important of these plans..."

In Wave 2H, 3H and from Wave 4 forward, those who are with the same employer and who reported having a pension at the previous wave are asked if the rules have changed. Except in Wave 7, if no rules change is reported, a limited number of follow-up questions are asked, including the number of plans and their types. In all waves, including Wave 7, if there is not a rules change or if there is not a prior wave pension with the current employer but the Respondent reports one in the current wave, a more complete set of questions is asked. These questions include the number of plans and their types.

In both places, the wording is the same as that in Wave 1 with a slight variation in the preface if there is more than one plan. The question is preceded by the statement: "Now I have some questions about the (next) most important of these plans."

In Wave 2H, the questions are asked separately for those employed by a firm and the self-employed, but the question wording is the same for both.

In Wave 3A, the questions about the current job's pension plan(s) are asked in two places depending on whether the Respondent works for a firm or is self-employed. The wording in both places is the same as in Wave 1. Respondents who work at a firm are asked a set of questions reporting on up to three plan types. The self-employed are asked a set of questions reporting on only one plan type.

The questions are not asked in Wave 2A.

Beginning in Wave 6, a fourth plan type is asked if the Respondent reports having at least four plans.

Prior to Wave 11, the Respondent was asked to list pension plans in order of importance. From Wave 11 forward, due to the questionnaire change, the Respondent answers questions about all pension plans, with no regard to importance.

### **HRS Variables Used**

HRS 1992:	
V2838	F36:PENSION PLANS
V2901	F37:PENS/RET PLNS ON JOB
V2908	F38:# PLNS INCLD ON JB

V2909	F39:P1-TYPE OF PLAN
V3009	F39:P2-TYPE OF PLAN
V3109	F39:P3-TYPE OF PLAN
HRS 1994:	
W3710	FA63.PENSION RULES CHANG
W3711	FA64.NUMBER PENSION PLAN
W3712	1. FA65.TYPE OF PENSION
W3724	2. FA65.TYPE OF PENSION
W3736	3. FA65.TYPE OF PENSION
W3748	FA71.PLAN OFFERED BY EMP
W3755	FA72.NUMBER PENSION PLAN
W3756	1. FA73.TYPE OF PENSION
W3808	2. FA73.TYPE OF PENSION
W3860	3. FA73.TYPE OF PENSION
W4375	FB26.PENSION/RETIREMENT
W4376	FB27.PENSION RULES CHANG
W4377	FB28.NUMBER PENSION PLAN
W4378	1. FB29.TYPE OF RETIREME
W4390	2. FB29.TYPE OF RETIREME
W4402	3. FB29.TYPE OF RETIREME
W4414	FB36.NUMBER PENSION PLAN
W4415	1. FB37.TYPE OF PENSION
W4467	2. FB37.TYPE OF PENSION
W4519	3. FB37.TYPE OF PENSION
AHEAD 1995:	
D2928	GA63.PENSION RULES CHANGED
D2955	GA71. WHETHER PENSION PLAN
D2964	GA72. NUMBER PENSION PLANS
D2969_1	GA73. TYPE PENSION
D2969_2	GA73. TYPE PENSION
D2969_3	GA73. TYPE PENSION
D3287	GB26.INCLUDED IN PENSION PLAN
D3325	GB36. NUMBER PENSION PLANS
D3330_1	GB37. TYPE PENSION
HRS 1996:	
E2835	G67.PENSION RULES CHANGED
E2837	G68.NUMBER PENSION PLANS
E2840_1	G69.TYPE OF PENSION
E2840_2	G69.TYPE OF PENSION
E2840_3	G69.TYPE OF PENSION
E2861	G75.PLAN OFFERED BY EMPLOYER
E2870	G76.NUMBER PENSION PLANS INCLUDED
E2875_1	G77.TYPE OF PENSION
E2875_2	G77.TYPE OF PENSION
E2875_3	G77.TYPE OF PENSION
HRS 1998:	
F3359	G67.PENSION RULES CHANGED
F3361	G68.NUMBER PENSION PLANS
F3364_1	G69.TYPE OF PENSION
F3364_2	G69.TYPE OF PENSION
F3364_3	G69.TYPE OF PENSION
F3389	G75.PLAN OFFERED BY EMPLOYER
F3398	G76.NUMBER PENSION PLANS INCLUDED
F3403_1	G77.TYPE OF PENSION
F3403_2	G77.TYPE OF PENSION
F3403_3	G77.TYPE OF PENSION
HRS 2000:	
G3619	G67.PENSION RULES CHANGED
G3621	G68.NUMBER PENSION PLANS



G3624_1	G69.TYPE OF PENSION
G3624_2	G69.TYPE OF PENSION
G3624_3	G69.TYPE OF PENSION
G3624_4	G69.TYPE OF PENSION
G3654	G75.PLAN OFFERED BY EMPLOYER
G3678	G76.NUMBER PENSION PLANS INCLUDED
G3683_1	G77.TYPE OF PENSION
G3683_2	G77.TYPE OF PENSION
G3683_3	G77.TYPE OF PENSION
G3683_4	G77.TYPE OF PENSION
HRS 2002:	
HJ265	J265 BRANCHPOINT
HJ268	PENSION RULES CHANGED
HJ272_1	TYPE OF PENSION- 1
HJ272_2	TYPE OF PENSION- 2
HJ272_3	TYPE OF PENSION- 3
HJ272_4	TYPE OF PENSION- 4
HJ324	PLAN OFFERED BY EMPLOYER
HJ335	# PENSION PLANS INCLUDED
HJ338_1	PENSION PLAN TYPE- 1
HJ338_2	PENSION PLAN TYPE- 2
HJ338_3	PENSION PLAN TYPE- 3
HJ338_4	PENSION PLAN TYPE- 4
HRS 2004:	
JJ265	J265 BRANCHPOINT
JJ268	PENSION RULES CHANGED
JJ324	PLAN OFFERED BY EMPLOYER
JJ335	# PENSION PLANS INCLUDED
JJ338A	PENSION PLAN TYPE- 1
JJ338B	PENSION PLAN TYPE- 2
JJ338C	PENSION PLAN TYPE- 3
JJ338D	PENSION PLAN TYPE- 4
HRS 2006:	
KJ265	J265 BRANCHPOINT
KJ268	PENSION RULES CHANGED
KJ272A	TYPE OF PENSION- 1 -1
KJ272B	TYPE OF PENSION- 1 -2
KJ272C	TYPE OF PENSION- 1 -3
KJ272D	TYPE OF PENSION- 1 -4
KJ324	PLAN OFFERED BY EMPLOYER
KJ335	# PENSION PLANS INCLUDED
KJ338A	PENSION PLAN TYPE- 1
KJ338B	PENSION PLAN TYPE- 2
KJ338C	PENSION PLAN TYPE- 3
KJ338D	PENSION PLAN TYPE- 4
HRS 2008:	
LJ338_1	PENSION PLAN TYPE- 1
LJ338_2	PENSION PLAN TYPE- 2
LJ338_3	PENSION PLAN TYPE- 3
LJ338_4	PENSION PLAN TYPE- 4
HRS 2010:	
MJ338_1	PENSION PLAN TYPE- 1
MJ338_2	PENSION PLAN TYPE- 2
MJ338_3	PENSION PLAN TYPE- 3
MJ338_4	PENSION PLAN TYPE- 4
HRS 2012:	
NJ2338_1	PENSION PLAN TYPE-DB OR DC -1_1
NJ2338_10	PENSION PLAN TYPE-DB OR DC -1_10
NJ2338_2	PENSION PLAN TYPE-DB OR DC -1_2

NJ2338_3	PENSION PLAN TYPE-DB OR DC -1_3
NJ2338_4	PENSION PLAN TYPE-DB OR DC -1_4
NJ2338_5	PENSION PLAN TYPE-DB OR DC -1_5
NJ2338_6	PENSION PLAN TYPE-DB OR DC -1_6
NJ2338_7	PENSION PLAN TYPE-DB OR DC -1_7
NJ2338_8	PENSION PLAN TYPE-DB OR DC -1_8
NJ2338_9	PENSION PLAN TYPE-DB OR DC -1_9
HRS 2014:	
OJ2338_1	PENSION PLAN TYPE-DB OR DC_1
OJ2338_10	PENSION PLAN TYPE-DB OR DC_10
OJ2338_2	PENSION PLAN TYPE-DB OR DC_2
OJ2338_3	PENSION PLAN TYPE-DB OR DC_3
OJ2338_4	PENSION PLAN TYPE-DB OR DC_4
OJ2338_5	PENSION PLAN TYPE-DB OR DC_5
OJ2338_6	PENSION PLAN TYPE-DB OR DC_6
OJ2338_7	PENSION PLAN TYPE-DB OR DC_7
OJ2338_8	PENSION PLAN TYPE-DB OR DC_8
OJ2338_9	PENSION PLAN TYPE-DB OR DC_9
OJ2Z140_1	PREV WAVE OLD PENSION TYPE_1
OJ2Z140_10	PREV WAVE OLD PENSION TYPE_10
OJ2Z140_2	PREV WAVE OLD PENSION TYPE_2
OJ2Z140_3	PREV WAVE OLD PENSION TYPE_3
OJ2Z140_4	PREV WAVE OLD PENSION TYPE_4
OJ2Z140_5	PREV WAVE OLD PENSION TYPE_5
OJ2Z140_6	PREV WAVE OLD PENSION TYPE_6
OJ2Z140_7	PREV WAVE OLD PENSION TYPE_7
OJ2Z140_8	PREV WAVE OLD PENSION TYPE_8
OJ2Z140_9	PREV WAVE OLD PENSION TYPE_9

<b>Detailed type of pension plan from current job</b>
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Wave	Variable	Label	Type
9	R9PTYPD1	R9PTYPD1:W9 Current pension type in detail #1	Categ
10	R10PTYPD1	R10PTYPD1:W10 Current pension type in detail #1	Categ
11	R11PTYPD1	R11PTYPD1:W11 Current pension type in detail #1	Categ
12	R12PTYPD1	R12PTYPD1:W12 Current pension type in detail #1	Categ
9	S9PTYPD1	S9PTYPD1:W9 Current pension type in detail #1	Categ
10	S10PTYPD1	S10PTYPD1:W10 Current pension type in detail #1	Categ
11	S11PTYPD1	S11PTYPD1:W11 Current pension type in detail #1	Categ
12	S12PTYPD1	S12PTYPD1:W12 Current pension type in detail #1	Categ
9	R9PTYPD2	R9PTYPD2:W9 Current pension type in detail #2	Categ
10	R10PTYPD2	R10PTYPD2:W10 Current pension type in detail #2	Categ
11	R11PTYPD2	R11PTYPD2:W11 Current pension type in detail #2	Categ
12	R12PTYPD2	R12PTYPD2:W12 Current pension type in detail #2	Categ
9	S9PTYPD2	S9PTYPD2:W9 Current pension type in detail #2	Categ
10	S10PTYPD2	S10PTYPD2:W10 Current pension type in detail #2	Categ
11	S11PTYPD2	S11PTYPD2:W11 Current pension type in detail #2	Categ
12	S12PTYPD2	S12PTYPD2:W12 Current pension type in detail #2	Categ
9	R9PTYPD3	R9PTYPD3:W9 Current pension type in detail #3	Categ
10	R10PTYPD3	R10PTYPD3:W10 Current pension type in detail #3	Categ
11	R11PTYPD3	R11PTYPD3:W11 Current pension type in detail #3	Categ
12	R12PTYPD3	R12PTYPD3:W12 Current pension type in detail #3	Categ
9	S9PTYPD3	S9PTYPD3:W9 Current pension type in detail #3	Categ
10	S10PTYPD3	S10PTYPD3:W10 Current pension type in detail #3	Categ
11	S11PTYPD3	S11PTYPD3:W11 Current pension type in detail #3	Categ
12	S12PTYPD3	S12PTYPD3:W12 Current pension type in detail #3	Categ
9	R9PTYPD4	R9PTYPD4:W9 Current pension type in detail #4	Categ
10	R10PTYPD4	R10PTYPD4:W10 Current pension type in detail #4	Categ
11	R11PTYPD4	R11PTYPD4:W11 Current pension type in detail #4	Categ
12	R12PTYPD4	R12PTYPD4:W12 Current pension type in detail #4	Categ
9	S9PTYPD4	S9PTYPD4:W9 Current pension type in detail #4	Categ
10	S10PTYPD4	S10PTYPD4:W10 Current pension type in detail #4	Categ
11	S11PTYPD4	S11PTYPD4:W11 Current pension type in detail #4	Categ
12	S12PTYPD4	S12PTYPD4:W12 Current pension type in detail #4	Categ
9	R9PTYPF1	R9PTYPF1:W9 Does pension type match detail? #1	Categ
10	R10PTYPF1	R10PTYPF1:W10 Does pension type match detail? #1	Categ
11	R11PTYPF1	R11PTYPF1:W11 Does pension type match detail? #1	Categ
12	R12PTYPF1	R12PTYPF1:W12 Does pension type match detail? #1	Categ
9	S9PTYPF1	S9PTYPF1:W9 Does pension type match detail? #1	Categ
10	S10PTYPF1	S10PTYPF1:W10 Does pension type match detail? #1	Categ
11	S11PTYPF1	S11PTYPF1:W11 Does pension type match detail? #1	Categ
12	S12PTYPF1	S12PTYPF1:W12 Does pension type match detail? #1	Categ
9	R9PTYPF2	R9PTYPF2:W9 Does pension type match detail? #2	Categ
10	R10PTYPF2	R10PTYPF2:W10 Does pension type match detail? #2	Categ
11	R11PTYPF2	R11PTYPF2:W11 Does pension type match detail? #2	Categ
12	R12PTYPF2	R12PTYPF2:W12 Does pension type match detail? #2	Categ
9	S9PTYPF2	S9PTYPF2:W9 Does pension type match detail? #2	Categ
10	S10PTYPF2	S10PTYPF2:W10 Does pension type match detail? #2	Categ
11	S11PTYPF2	S11PTYPF2:W11 Does pension type match detail? #2	Categ
12	S12PTYPF2	S12PTYPF2:W12 Does pension type match detail? #2	Categ
9	R9PTYPF3	R9PTYPF3:W9 Does pension type match detail? #3	Categ
10	R10PTYPF3	R10PTYPF3:W10 Does pension type match detail? #3	Categ
11	R11PTYPF3	R11PTYPF3:W11 Does pension type match detail? #3	Categ
12	R12PTYPF3	R12PTYPF3:W12 Does pension type match detail? #3	Categ
9	S9PTYPF3	S9PTYPF3:W9 Does pension type match detail? #3	Categ

10	S10PTYPF3	S10PTYPF3:W10 Does pension type match detail? #3	Categ
11	S11PTYPF3	S11PTYPF3:W11 Does pension type match detail? #3	Categ
12	S12PTYPF3	S12PTYPF3:W12 Does pension type match detail? #3	Categ
9	R9PTYPF4	R9PTYPF4:W9 Does pension type match detail? #4	Categ
10	R10PTYPF4	R10PTYPF4:W10 Does pension type match detail? #4	Categ
11	R11PTYPF4	R11PTYPF4:W11 Does pension type match detail? #4	Categ
12	R12PTYPF4	R12PTYPF4:W12 Does pension type match detail? #4	Categ
9	S9PTYPF4	S9PTYPF4:W9 Does pension type match detail? #4	Categ
10	S10PTYPF4	S10PTYPF4:W10 Does pension type match detail? #4	Categ
11	S11PTYPF4	S11PTYPF4:W11 Does pension type match detail? #4	Categ
12	S12PTYPF4	S12PTYPF4:W12 Does pension type match detail? #4	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R9PTYPD1	2191	3.26	6.94	1.0	95.0
R10PTYPD1	3529	3.27	8.20	1.0	96.0
R11PTYPD1	3392	2.94	2.99	1.0	16.0
R12PTYPD1	2885	2.83	2.86	1.0	16.0
S9PTYPD1	1653	3.39	7.47	1.0	95.0
S10PTYPD1	2510	3.19	7.62	1.0	96.0
S11PTYPD1	2443	2.96	3.04	1.0	16.0
S12PTYPD1	2061	2.79	2.82	1.0	16.0
R9PTYPD2	648	5.92	12.88	1.0	96.0
R10PTYPD2	1109	6.29	15.53	1.0	96.0
R11PTYPD2	903	3.25	2.80	1.0	16.0
R12PTYPD2	723	3.22	2.75	1.0	16.0
S9PTYPD2	499	5.78	12.73	1.0	96.0
S10PTYPD2	784	6.17	15.56	1.0	96.0
S11PTYPD2	655	3.25	2.86	1.0	16.0
S12PTYPD2	528	3.13	2.62	1.0	16.0
R9PTYPD3	74	11.85	22.95	1.0	96.0
R10PTYPD3	139	12.10	24.91	1.0	96.0
R11PTYPD3	133	4.13	3.27	1.0	16.0
R12PTYPD3	104	4.10	3.25	1.0	14.0
S9PTYPD3	61	12.00	22.63	1.0	96.0
S10PTYPD3	100	11.29	23.58	1.0	96.0
S11PTYPD3	98	3.82	3.03	1.0	13.0
S12PTYPD3	80	4.30	3.49	1.0	14.0
R9PTYPD4	4	8.25	6.13	2.0	14.0
R10PTYPD4	12	27.25	41.50	2.0	96.0
R11PTYPD4	12	3.50	1.73	1.0	7.0
R12PTYPD4	9	4.44	2.60	1.0	10.0
S9PTYPD4	3	10.33	5.51	4.0	14.0
S10PTYPD4	9	35.00	45.79	2.0	96.0
S11PTYPD4	8	3.13	1.89	1.0	7.0
S12PTYPD4	6	4.83	2.79	3.0	10.0
R9PTYPF1	2422	0.68	0.47	0.0	1.0

R10PTYPF1	3862	0.63	0.48	0.0	1.0
R11PTYPF1	3593	0.59	0.49	0.0	1.0
R12PTYPF1	3027	0.65	0.48	0.0	1.0
S9PTYPF1	1804	0.69	0.46	0.0	1.0
S10PTYPF1	2735	0.64	0.48	0.0	1.0
S11PTYPF1	2571	0.60	0.49	0.0	1.0
S12PTYPF1	2158	0.66	0.47	0.0	1.0
R9PTYPF2	706	0.73	0.44	0.0	1.0
R10PTYPF2	1172	0.71	0.45	0.0	1.0
R11PTYPF2	952	0.60	0.49	0.0	1.0
R12PTYPF2	752	0.61	0.49	0.0	1.0
S9PTYPF2	535	0.74	0.44	0.0	1.0
S10PTYPF2	833	0.72	0.45	0.0	1.0
S11PTYPF2	687	0.60	0.49	0.0	1.0
S12PTYPF2	547	0.62	0.49	0.0	1.0
R9PTYPF3	79	0.73	0.44	0.0	1.0
R10PTYPF3	140	0.76	0.43	0.0	1.0
R11PTYPF3	139	0.63	0.48	0.0	1.0
R12PTYPF3	107	0.63	0.49	0.0	1.0
S9PTYPF3	64	0.72	0.45	0.0	1.0
S10PTYPF3	101	0.75	0.43	0.0	1.0
S11PTYPF3	103	0.66	0.48	0.0	1.0
S12PTYPF3	83	0.61	0.49	0.0	1.0
R9PTYPF4	5	0.40	0.55	0.0	1.0
R10PTYPF4	9	0.78	0.44	0.0	1.0
R11PTYPF4	13	0.69	0.48	0.0	1.0
R12PTYPF4	10	0.60	0.52	0.0	1.0
S9PTYPF4	4	0.50	0.58	0.0	1.0
S10PTYPF4	6	0.83	0.41	0.0	1.0
S11PTYPF4	9	0.78	0.44	0.0	1.0
S12PTYPF4	7	0.71	0.49	0.0	1.0

## Categorical Variable Codes

Value	R9PTYPD1	R10PTYPD1	R11PTYPD1	R12PTYPD1
.D=DK	303	381	188	122
.M=Oth missing			9	12
.O=Other (Specify)	84	163	249	201
.R=RF	5	11	94	83
.S=No pen	14634	17950	16622	15444
1.401k plan	1217	1918	1789	1570
2.Supplemental retirement a	93	273	196	123
3.Defined benefit plan	368	482	381	330
4.Defined contribution plan	178	377	476	424
5.401a plan	1	9	8	11
6.403b plan	107	203	209	179
7.457 plan	11	11	36	32
8.Thrift/savings plan (TSP)	39	81	85	64
9.Profit-sharing plan	59	55	59	44
10.Employee stock ownership	27	25	41	28
11.Money purchase plan	1			
12.Portable cash option pla			2	1
13.Employee stock purchase	7	5	18	12
14.SEP or SIMPLE plan	55	46	69	45
15.Combination plan	13	15	17	16
16.Cash balance plan	5	4	6	6
95.IRA/Keogh	10	17		
96.Not pension, health plan		8		

Value	S9PTYPD1	S10PTYPD1	S11PTYPD1	S12PTYPD1
.D=DK	196	252	116	79
.M=Oth missing			6	8
.O=Other (Specify)	64	111	167	131
.R=RF	3	9	65	54
.S=No pen	8730	10631	9691	8694
.U=Umarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
1.401k plan	915	1371	1301	1141
2.Supplemental retirement a	70	184	139	90
3.Defined benefit plan	270	344	266	226
4.Defined contribution plan	134	267	328	301
5.401a plan		7	7	9
6.403b plan	85	137	148	115
7.457 plan	6	7	27	24
8.Thrift/savings plan (TSP)	28	60	63	42
9.Profit-sharing plan	49	45	46	37
10.Employee stock ownership	22	19	35	24
11.Money purchase plan	1			
12.Portable cash option pla			1	1
13.Employee stock purchase	7	2	10	4
14.SEP or SIMPLE plan	43	39	56	33
15.Combination plan	11	11	13	12
16.Cash balance plan	3	2	3	2
95.IRA/Keogh	9	11		
96.Not pension, health plan		4		

Value	R9PTYPD2	R10PTYPD2	R11PTYPD2	R12PTYPD2
.D=DK	108	113	38	22
.M=Oth missing	1	17	4	
.O=Other (Specify)	32	78	98	78
.R=RF	3	12	21	14
.S=No pen	16425	20705	19490	17910
1.401k plan	224	356	361	295
2.Supplemental retirement a	61	172	52	38
3.Defined benefit plan	87	152	164	125
4.Defined contribution plan	52	107	158	126
5.401a plan	3	2	7	4
6.403b plan	50	93	66	64
7.457 plan	18	39	18	19
8.Thrift/savings plan (TSP)	38	50	23	13
9.Profit-sharing plan	42	38	19	14
10.Employee stock ownership	25	28	15	11
11.Money purchase plan	1			
13.Employee stock purchase	21	31	6	2
14.SEP or SIMPLE plan	4	3	6	5
15.Combination plan	2	2	4	4
16.Cash balance plan	8	5	4	3
95.IRA/Keogh	4	4		
96.Not pension, health plan	8	27		

Value	S9PTYPD2	S10PTYPD2	S11PTYPD2	S12PTYPD2
.D=DK	72	83	21	13
.M=Oth missing	1	12	4	
.O=Other (Specify)	22	50	73	53
.R=RF	2	9	14	10
.S=No pen	10050	12575	11721	10423
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
1.401k plan	172	262	265	227
2.Supplemental retirement a	53	124	37	22
3.Defined benefit plan	66	110	112	85
4.Defined contribution plan	41	68	123	95
5.401a plan	3	2	6	2
6.403b plan	38	70	43	48
7.457 plan	10	29	15	15
8.Thrift/savings plan (TSP)	30	27	13	9
9.Profit-sharing plan	35	24	16	10
10.Employee stock ownership	17	20	8	8
11.Money purchase plan	1			
13.Employee stock purchase	16	18	5	
14.SEP or SIMPLE plan	2	3	5	4
15.Combination plan	1	2	3	2
16.Cash balance plan	5	3	4	1
95.IRA/Keogh	2	3		
96.Not pension, health plan	7	19		

Value	R9PTYPD3	R10PTYPD3	R11PTYPD3	R12PTYPD3
.D=DK	16	18	9	3
.M=Oth missing		18		
.O=Other (Specify)	5	16	19	10
.R=RF	5	8	3	
.S=No pen	17117	21835	20390	18630
1.401k plan	11	23	33	32
2.Supplemental retirement a	7	23	9	9
3.Defined benefit plan	6	11	29	11
4.Defined contribution plan	11	21	26	18
5.401a plan	2	2	1	1
6.403b plan	3	11	14	12
7.457 plan	5	7	5	10
8.Thrift/savings plan (TSP)	3	3		
9.Profit-sharing plan	4	3	2	1
10.Employee stock ownership	10	16	7	5
11.Money purchase plan		1		
12.Portable cash option pla	1			1
13.Employee stock purchase	6	6	5	3
14.SEP or SIMPLE plan			1	1
16.Cash balance plan		1	1	
95.IRA/Keogh	3	1		
96.Not pension, health plan	2	10		

Value	S9PTYPD3	S10PTYPD3	S11PTYPD3	S12PTYPD3
.D=DK	11	10	7	3
.M=Oth missing		12		
.O=Other (Specify)	3	13	17	6
.R=RF	4	7	1	
.S=No pen	10567	13371	12365	10938
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
1.401k plan	8	16	29	25
2.Supplemental retirement a	5	17	6	7
3.Defined benefit plan	5	7	22	6
4.Defined contribution plan	10	18	17	15
5.401a plan	1		1	1
6.403b plan	2	8	8	7
7.457 plan	4	4	4	8
8.Thrift/savings plan (TSP)	2	2		
9.Profit-sharing plan	4	3	1	1
10.Employee stock ownership	9	12	7	5
11.Money purchase plan		1		
12.Portable cash option pla	1			1
13.Employee stock purchase	6	5	3	3
14.SEP or SIMPLE plan				1
95.IRA/Keogh	2	1		
96.Not pension, health plan	2	6		



Value	R9PTYPD4	R10PTYPD4	R11PTYPD4	R12PTYPD4
.D=DK	4	6		1
.M=Oth missing		7		
.O=Other (Specify)	1	1	3	2
.R=RF		1	1	
.S=No pen	17208	22007	20538	18735
1.401k plan			2	1
2.Supplemental retirement a	1	2		
3.Defined benefit plan			5	3
4.Defined contribution plan	1	5	3	2
6.403b plan		1	1	2
7.457 plan			1	
9.Profit-sharing plan		1		
10.Employee stock ownership				1
13.Employee stock purchase	1			
14.SEP or SIMPLE plan	1			
96.Not pension, health plan		3		

Value	S9PTYPD4	S10PTYPD4	S11PTYPD4	S12PTYPD4
.D=DK	4	3		1
.M=Oth missing		5		
.O=Other (Specify)	1		2	1
.R=RF		1	1	
.S=No pen	10638	13495	12477	11019
.U=Umarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
1.401k plan			2	
2.Supplemental retirement a		1		
3.Defined benefit plan			4	3
4.Defined contribution plan	1	4	1	1
6.403b plan				1
7.457 plan			1	
9.Profit-sharing plan		1		
10.Employee stock ownership				1
13.Employee stock purchase	1			
14.SEP or SIMPLE plan	1			
96.Not pension, health plan		3		

Value	R9PTYPF1	R10PTYPF1	R11PTYPF1	R12PTYPF1
.D=DK/NA	156	211	333	240
.M=Oth missing				5
.N=Not a pension, other		8		
.R=RF	5	3	6	31
.S=Skip	14634	17950	16622	15444
0.No	782	1427	1482	1068
1.Yes	1640	2435	2111	1959

Value	S9PTYPF1	S10PTYPF1	S11PTYPF1	S12PTYPF1
.D=DK/NA	109	140	222	154
.M=Oth missing				4
.N=Not a pension, other		4		
.R=RF	3	3	4	17
.S=Skip	8730	10631	9691	8694
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
0.No	556	991	1023	741
1.Yes	1248	1744	1548	1417

Value	R9PTYPF2	R10PTYPF2	R11PTYPF2	R12PTYPF2
.D=DK/NA	75	105	110	83
.M=Oth missing	1	15		
.N=Not a pension, other	8	27		
.R=RF	2	10	2	2
.S=Skip	16425	20705	19490	17910
0.No	188	341	384	291
1.Yes	518	831	568	461

Value	S9PTYPF2	S10PTYPF2	S11PTYPF2	S12PTYPF2
.D=DK/NA	52	69	79	55
.M=Oth missing	1	10		
.N=Not a pension, other	7	19		
.R=RF	1	7	1	2
.S=Skip	10050	12575	11721	10423
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
0.No	139	230	272	208
1.Yes	396	603	415	339

Value	R9PTYPF3	R10PTYPF3	R11PTYPF3	R12PTYPF3
.D=DK/NA	14	26	24	10
.M=Oth missing		18		
.N=Not a pension, other	2	10		
.R=RF	5	5	1	
.S=Skip	17117	21835	20390	18630
0.No	21	34	51	40
1.Yes	58	106	88	67

Value	S9PTYPF3	S10PTYPF3	S11PTYPF3	S12PTYPF3
.D=DK/NA	9	19	20	6
.M=Oth missing		12		
.N=Not a pension, other	2	6		
.R=RF	4	4		
.S=Skip	10567	13371	12365	10938
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
0.No	18	25	35	32
1.Yes	46	76	68	51

Value	R9PTYPF4	R10PTYPF4	R11PTYPF4	R12PTYPF4
.D=DK/NA	4	7	3	2
.M=Oth missing		7		
.N=Not a pension, other		3		
.R=RF		1		
.S=Skip	17208	22007	20538	18735
0.No	3	2	4	4
1.Yes	2	7	9	6

Value	S9PTYPF4	S10PTYPF4	S11PTYPF4	S12PTYPF4
.D=DK/NA	4	3	2	1
.M=Oth missing		5		
.N=Not a pension, other		3		
.R=RF		1		
.S=Skip	10638	13495	12477	11019
.U=Unmarried	6206	7799	7474	7127
.V=Spouse NR	365	722	592	593
0.No	2	1	2	2
1.Yes	2	5	7	5

## Format Reference Tables – complete variable value labels

Variables: PTYPD1, PTYPD2, PTYPD3, PTYPD4

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.D=DK
.M=Oth missing
.O=Other (Specify)
.Q=Not asked this wv
.R=RF
.S=No pen
.U=Umarried
.V=Spouse NR
.W=Not working
1.401k plan
2.Supplemental retirement acc
3.Defined benefit plan
4.Defined contribution plan
5.401a plan
6.403b plan
7.457 plan
8.Thrift/savings plan (TSP)
9.Profit-sharing plan
10.Employee stock ownership
11.Money purchase plan
12.Portable cash option plan
13.Employee stock purchase
14.SEP or SIMPLE plan
15.Combination plan
16.Cash balance plan
95.IRA/Keogh
96.Not pension, health plan mentioned

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### How Constructed

RwPTYPD1, RwPTYPD2, RwPTYPD3 and RwPTYPD4 indicate the detailed types of pension plans in which the Respondent is included for the current job. This is a new question starting in Wave 9. SwPTYPD1, SwPTYPD2, SwPTYPD3 and SwPTYPD4 provide this information for the Respondent's spouse or partner.

From Wave 9 forward, if the Respondent is included in a pension in her/his current job then s/he is asked what her/his employer calls the plan. The Respondent may identify the plan type from a list of different plans such as 401K or 403B. In Wave 9, two new codes were added: "IRA/Keogh" (95) and "health savings account/medical plan/flexible spending account/disability mentioned" (96). RwPTYPD1-4 is recoded from these two codes to "96:Not a pension." In Wave 10, code 95 was dropped and code 96 was simplified to "Not a pension." In Wave 11, the pension questionnaire changed, but the Respondent is still asked what type of pension s/he has, so the response remains the same.

RwPTYPD1, RwPTYPD2, RwPTYPD3 and RwPTYPD4 are set to the type of pensions that the Respondent reports. The plan type is simply recoded for missing values. It is set to .S if the question is skipped because the Respondent does not have the pension, e.g., if the Respondent has one pension, RwPTYP2 to RwPTYP3 (or RwPTYP4 from Wave 5 on) are set to .S. They are also set to .S if the Respondent does not have a pension on the current job, did not provide a number of pensions, or is not working.

From Wave 9 forward, there are two RAND HRS pension type variables: RwPTYP1-4 indicates if a plan is DB, DC, Both, or Not a Pension and RwPTYPD1-4 indicates what the Respondent's employer calls her/his plan. The flags RwPTYPF1, RwPTYPF2, RwPTYPF3 and RwPTYPF4 provide a crosswalk between the two plan type variables. They indicate whether the Respondent's responses in RwPTYP1-4 match those in RwPTYPD1-4.

RwPTYPF1-4 = 1 if the Respondent can correctly identify a DB and DC plan from the employer list.

RwPTYPF1-4 = 0 if the Respondent cannot identify a DB and DC plan from the employer list.

RwPTYPF1-4 = .S if the Respondent does not report a pension.

RwPTYPF1-4 = .R if the Respondent refused to answer both RwPTYPD1 and RwPTYPD1.

RwPTYPF1-4 = .N if the Respondent reports "Not a pension" in RwPTYPD1-4.

RwPTYPF1-4 = .D if both RwPTYPD1 and RwPTYPD1 report DK or if RwPTYPD1 is reported as '.O Other.' As we do not have information on what the 'Other' plan is, we cannot say if the Respondent has correctly identified it as DB or DC.

SwPTYPD1, SwPTYPD2, SwPTYPD3 and SwPTYPD4 information is taken from the spouse's self-reported RwPTYPD1, RwPTYPD2, RwPTYPD3 and RwPTYPD4 variables, if available. If the Respondent is not married, SwPTYPD1, SwPTYPD2, SwPTYPD3 and SwPTYPD4 are set to .U=unmarried. If the Respondent's spouse did not respond, then SwPTYPD1, SwPTYPD2, SwPTYPD3 and SwPTYPD4 are set to .V=Spouse is non-response.

SwPTYPF1, SwPTYPF2, SwPTYPF3 and SwPTYPF4 information is taken from the spouse's self-reported RwPTYPF1, RwPTYPF2, RwPTYPF3 and RwPTYPF4 variables, if available. If the Respondent is not married, SwPTYPF1, SwPTYPF2, SwPTYPF3 and SwPTYPF4 are set to .U=unmarried. If the Respondent's spouse did not respond, then SwPTYPF1, SwPTYPF2, SwPTYPF3 and SwPTYPF4 are set to .V=Spouse is non-response.

### Cross Wave Differences in Original HRS Data

From Wave 9 forward, the question asks about pension plans associated with the Respondent's current job.

If the Respondent reports having one or more pension plans from the current job, the number of pensions is ascertained and the Respondent is asked "What does your employer call your plan?" This detailed type of pension is requested for up to four pensions. If the Respondent has multiple plans of different types, the most important plan is recorded rather than combining them as "Combination Plan."

Prior to Wave 11, the Respondent was asked to list her/his pensions in order of importance. From Wave 11 forward, due to the questionnaire change, the Respondent answers questions about all her/his pensions, with no regard to importance.

The Respondent is also asked "Is your plan Type A or Type B?" The response may be Type A, Type B, or both. RwPTYPF1-4 tells us if the Respondent correctly identifies the employer plan name as DB, DC or both.

### HRS Variables Used

#### HRS 2008:

LJ338_1	PENSION PLAN TYPE- 1
LJ338_2	PENSION PLAN TYPE- 2
LJ338_3	PENSION PLAN TYPE- 3
LJ338_4	PENSION PLAN TYPE- 4
LJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
LJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
LJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
LJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4

#### HRS 2010:

MJ338_1	PENSION PLAN TYPE- 1
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MJ338_2	PENSION PLAN TYPE- 2
MJ338_3	PENSION PLAN TYPE- 3
MJ338_4	PENSION PLAN TYPE- 4
MJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
MJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
MJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
MJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
HRS 2012:	
NJ2338_1	PENSION PLAN TYPE-DB OR DC -1_1
NJ2338_10	PENSION PLAN TYPE-DB OR DC -1_10
NJ2338_2	PENSION PLAN TYPE-DB OR DC -1_2
NJ2338_3	PENSION PLAN TYPE-DB OR DC -1_3
NJ2338_4	PENSION PLAN TYPE-DB OR DC -1_4
NJ2338_5	PENSION PLAN TYPE-DB OR DC -1_5
NJ2338_6	PENSION PLAN TYPE-DB OR DC -1_6
NJ2338_7	PENSION PLAN TYPE-DB OR DC -1_7
NJ2338_8	PENSION PLAN TYPE-DB OR DC -1_8
NJ2338_9	PENSION PLAN TYPE-DB OR DC -1_9
NJ2W407_1	TYPE -1_1
NJ2W407_10	TYPE -1_10
NJ2W407_2	TYPE -1_2
NJ2W407_3	TYPE -1_3
NJ2W407_4	TYPE -1_4
NJ2W407_5	TYPE -1_5
NJ2W407_6	TYPE -1_6
NJ2W407_7	TYPE -1_7
NJ2W407_8	TYPE -1_8
NJ2W407_9	TYPE -1_9
HRS 2014:	
OJ2338_1	PENSION PLAN TYPE-DB OR DC_1
OJ2338_10	PENSION PLAN TYPE-DB OR DC_10
OJ2338_2	PENSION PLAN TYPE-DB OR DC_2
OJ2338_3	PENSION PLAN TYPE-DB OR DC_3
OJ2338_4	PENSION PLAN TYPE-DB OR DC_4
OJ2338_5	PENSION PLAN TYPE-DB OR DC_5
OJ2338_6	PENSION PLAN TYPE-DB OR DC_6
OJ2338_7	PENSION PLAN TYPE-DB OR DC_7
OJ2338_8	PENSION PLAN TYPE-DB OR DC_8
OJ2338_9	PENSION PLAN TYPE-DB OR DC_9
OJ2W407_1	TYPE_1
OJ2W407_10	TYPE_10
OJ2W407_2	TYPE_2
OJ2W407_3	TYPE_3
OJ2W407_4	TYPE_4
OJ2W407_5	TYPE_5
OJ2W407_6	TYPE_6
OJ2W407_7	TYPE_7
OJ2W407_8	TYPE_8
OJ2W407_9	TYPE_9
OJ2Z140_1	PREV WAVE OLD PENSION TYPE_1
OJ2Z140_10	PREV WAVE OLD PENSION TYPE_10
OJ2Z140_2	PREV WAVE OLD PENSION TYPE_2
OJ2Z140_3	PREV WAVE OLD PENSION TYPE_3
OJ2Z140_4	PREV WAVE OLD PENSION TYPE_4
OJ2Z140_5	PREV WAVE OLD PENSION TYPE_5
OJ2Z140_6	PREV WAVE OLD PENSION TYPE_6
OJ2Z140_7	PREV WAVE OLD PENSION TYPE_7
OJ2Z140_8	PREV WAVE OLD PENSION TYPE_8
OJ2Z140_9	PREV WAVE OLD PENSION TYPE_9

<b>Respondent's annual contribution to DC plan from current job</b>
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Wave	Variable	Label	Type
1	R1DCCONT1	R1DCCONT1:W1 Employee contribution to DC plan #1	Cont
2	R2DCCONT1	R2DCCONT1:W2 Employee contribution to DC plan #1	Cont
3	R3DCCONT1	R3DCCONT1:W3 Employee contribution to DC plan #1	Cont
4	R4DCCONT1	R4DCCONT1:W4 Employee contribution to DC plan #1	Cont
5	R5DCCONT1	R5DCCONT1:W5 Employee contribution to DC plan #1	Cont
6	R6DCCONT1	R6DCCONT1:W6 Employee contribution to DC plan #1	Cont
7	R7DCCONT1	R7DCCONT1:W7 Employee contribution to DC plan #1	Cont
8	R8DCCONT1	R8DCCONT1:W8 Employee contribution to DC plan #1	Cont
9	R9DCCONT1	R9DCCONT1:W9 Employee contribution to DC plan #1	Cont
10	R10DCCONT1	R10DCCONT1:W10 Employee contribution to DC plan #1	Cont
11	R11DCCONT1	R11DCCONT1:W11 Employee contribution to DC plan #1	Cont
12	R12DCCONT1	R12DCCONT1:W12 Employee contribution to DC plan #1	Cont
1	S1DCCONT1	S1DCCONT1:W1 Employee contribution to DC plan #1	Cont
2	S2DCCONT1	S2DCCONT1:W2 Employee contribution to DC plan #1	Cont
3	S3DCCONT1	S3DCCONT1:W3 Employee contribution to DC plan #1	Cont
4	S4DCCONT1	S4DCCONT1:W4 Employee contribution to DC plan #1	Cont
5	S5DCCONT1	S5DCCONT1:W5 Employee contribution to DC plan #1	Cont
6	S6DCCONT1	S6DCCONT1:W6 Employee contribution to DC plan #1	Cont
7	S7DCCONT1	S7DCCONT1:W7 Employee contribution to DC plan #1	Cont
8	S8DCCONT1	S8DCCONT1:W8 Employee contribution to DC plan #1	Cont
9	S9DCCONT1	S9DCCONT1:W9 Employee contribution to DC plan #1	Cont
10	S10DCCONT1	S10DCCONT1:W10 Employee contribution to DC plan #1	Cont
11	S11DCCONT1	S11DCCONT1:W11 Employee contribution to DC plan #1	Cont
12	S12DCCONT1	S12DCCONT1:W12 Employee contribution to DC plan #1	Cont
1	R1DCCONT2	R1DCCONT2:W1 Employee contribution to DC plan #2	Cont
2	R2DCCONT2	R2DCCONT2:W2 Employee contribution to DC plan #2	Cont
3	R3DCCONT2	R3DCCONT2:W3 Employee contribution to DC plan #2	Cont
4	R4DCCONT2	R4DCCONT2:W4 Employee contribution to DC plan #2	Cont
5	R5DCCONT2	R5DCCONT2:W5 Employee contribution to DC plan #2	Cont
6	R6DCCONT2	R6DCCONT2:W6 Employee contribution to DC plan #2	Cont
7	R7DCCONT2	R7DCCONT2:W7 Employee contribution to DC plan #2	Cont
8	R8DCCONT2	R8DCCONT2:W8 Employee contribution to DC plan #2	Cont
9	R9DCCONT2	R9DCCONT2:W9 Employee contribution to DC plan #2	Cont
10	R10DCCONT2	R10DCCONT2:W10 Employee contribution to DC plan #2	Cont
11	R11DCCONT2	R11DCCONT2:W11 Employee contribution to DC plan #2	Cont
12	R12DCCONT2	R12DCCONT2:W12 Employee contribution to DC plan #2	Cont
1	S1DCCONT2	S1DCCONT2:W1 Employee contribution to DC plan #2	Cont
2	S2DCCONT2	S2DCCONT2:W2 Employee contribution to DC plan #2	Cont
3	S3DCCONT2	S3DCCONT2:W3 Employee contribution to DC plan #2	Cont
4	S4DCCONT2	S4DCCONT2:W4 Employee contribution to DC plan #2	Cont
5	S5DCCONT2	S5DCCONT2:W5 Employee contribution to DC plan #2	Cont
6	S6DCCONT2	S6DCCONT2:W6 Employee contribution to DC plan #2	Cont
7	S7DCCONT2	S7DCCONT2:W7 Employee contribution to DC plan #2	Cont
8	S8DCCONT2	S8DCCONT2:W8 Employee contribution to DC plan #2	Cont
9	S9DCCONT2	S9DCCONT2:W9 Employee contribution to DC plan #2	Cont
10	S10DCCONT2	S10DCCONT2:W10 Employee contribution to DC plan #2	Cont
11	S11DCCONT2	S11DCCONT2:W11 Employee contribution to DC plan #2	Cont
12	S12DCCONT2	S12DCCONT2:W12 Employee contribution to DC plan #2	Cont
1	R1DCCONT3	R1DCCONT3:W1 Employee contribution to DC plan #3	Cont
2	R2DCCONT3	R2DCCONT3:W2 Employee contribution to DC plan #3	Cont
3	R3DCCONT3	R3DCCONT3:W3 Employee contribution to DC plan #3	Cont
4	R4DCCONT3	R4DCCONT3:W4 Employee contribution to DC plan #3	Cont
5	R5DCCONT3	R5DCCONT3:W5 Employee contribution to DC plan #3	Cont
6	R6DCCONT3	R6DCCONT3:W6 Employee contribution to DC plan #3	Cont
7	R7DCCONT3	R7DCCONT3:W7 Employee contribution to DC plan #3	Cont
8	R8DCCONT3	R8DCCONT3:W8 Employee contribution to DC plan #3	Cont
9	R9DCCONT3	R9DCCONT3:W9 Employee contribution to DC plan #3	Cont
10	R10DCCONT3	R10DCCONT3:W10 Employee contribution to DC plan #3	Cont
11	R11DCCONT3	R11DCCONT3:W11 Employee contribution to DC plan #3	Cont
12	R12DCCONT3	R12DCCONT3:W12 Employee contribution to DC plan #3	Cont
1	S1DCCONT3	S1DCCONT3:W1 Employee contribution to DC plan #3	Cont

2	S2DCCONT3	S2DCCONT3:W2 Employee contribution to DC plan #3	Cont
3	S3DCCONT3	S3DCCONT3:W3 Employee contribution to DC plan #3	Cont
4	S4DCCONT3	S4DCCONT3:W4 Employee contribution to DC plan #3	Cont
5	S5DCCONT3	S5DCCONT3:W5 Employee contribution to DC plan #3	Cont
6	S6DCCONT3	S6DCCONT3:W6 Employee contribution to DC plan #3	Cont
7	S7DCCONT3	S7DCCONT3:W7 Employee contribution to DC plan #3	Cont
8	S8DCCONT3	S8DCCONT3:W8 Employee contribution to DC plan #3	Cont
9	S9DCCONT3	S9DCCONT3:W9 Employee contribution to DC plan #3	Cont
10	S10DCCONT3	S10DCCONT3:W10 Employee contribution to DC plan #3	Cont
11	S11DCCONT3	S11DCCONT3:W11 Employee contribution to DC plan #3	Cont
12	S12DCCONT3	S12DCCONT3:W12 Employee contribution to DC plan #3	Cont
5	R5DCCONT4	R5DCCONT4:W5 Employee contribution to DC plan #4	Cont
6	R6DCCONT4	R6DCCONT4:W6 Employee contribution to DC plan #4	Cont
7	R7DCCONT4	R7DCCONT4:W7 Employee contribution to DC plan #4	Cont
8	R8DCCONT4	R8DCCONT4:W8 Employee contribution to DC plan #4	Cont
9	R9DCCONT4	R9DCCONT4:W9 Employee contribution to DC plan #4	Cont
10	R10DCCONT4	R10DCCONT4:W10 Employee contribution to DC plan #4	Cont
11	R11DCCONT4	R11DCCONT4:W11 Employee contribution to DC plan #4	Cont
12	R12DCCONT4	R12DCCONT4:W12 Employee contribution to DC plan #4	Cont
5	S5DCCONT4	S5DCCONT4:W5 Employee contribution to DC plan #4	Cont
6	S6DCCONT4	S6DCCONT4:W6 Employee contribution to DC plan #4	Cont
7	S7DCCONT4	S7DCCONT4:W7 Employee contribution to DC plan #4	Cont
8	S8DCCONT4	S8DCCONT4:W8 Employee contribution to DC plan #4	Cont
9	S9DCCONT4	S9DCCONT4:W9 Employee contribution to DC plan #4	Cont
10	S10DCCONT4	S10DCCONT4:W10 Employee contribution to DC plan #4	Cont
11	S11DCCONT4	S11DCCONT4:W11 Employee contribution to DC plan #4	Cont
12	S12DCCONT4	S12DCCONT4:W12 Employee contribution to DC plan #4	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DCCONT1	1420	2210.33	8631.86	0.0	237500.0
R2DCCONT1	420	2667.67	9721.95	0.0	150000.0
R3DCCONT1	467	2142.12	3918.74	0.0	65000.0
R4DCCONT1	930	2921.36	3960.35	0.0	32500.0
R5DCCONT1	598	3666.28	15897.11	0.0	287040.0
R6DCCONT1	1199	3803.85	13446.37	0.0	396000.0
R7DCCONT1	1754	3785.44	8255.22	0.0	148956.0
R8DCCONT1	1412	3948.44	6070.11	0.0	54600.0
R9DCCONT1	1301	4813.82	6988.76	0.0	67500.0
R10DCCONT1	1966	5172.94	15399.02	0.0	572000.0
R11DCCONT1	1795	4103.06	6249.93	0.0	62400.0
R12DCCONT1	1772	4904.67	18604.55	0.0	733200.0
S1DCCONT1	1117	2158.81	7986.29	0.0	237500.0
S2DCCONT1	329	2776.55	10250.47	0.0	150000.0
S3DCCONT1	361	2290.42	4288.13	0.0	65000.0
S4DCCONT1	723	3062.73	3980.10	0.0	32500.0
S5DCCONT1	441	4209.64	18419.32	0.0	287040.0
S6DCCONT1	909	3807.99	8094.57	0.0	156000.0
S7DCCONT1	1335	4178.99	9213.73	0.0	148956.0
S8DCCONT1	1073	4164.89	6322.37	0.0	54600.0
S9DCCONT1	1007	4973.78	7039.05	0.0	67500.0
S10DCCONT1	1408	5421.12	16662.08	0.0	572000.0
S11DCCONT1	1327	4357.04	6471.67	0.0	62400.0
S12DCCONT1	1295	5262.37	21420.37	0.0	733200.0
R1DCCONT2	922	3220.59	7594.47	0.0	149552.0



R2DCCONT2	104	3287.22	6969.19	0.0	55800.0
R3DCCONT2	126	2970.64	6361.14	0.0	65000.0
R4DCCONT2	358	3082.41	3777.78	0.0	35400.0
R5DCCONT2	137	2589.89	3021.28	0.0	14560.0
R6DCCONT2	306	6188.85	24510.85	0.0	396000.0
R7DCCONT2	660	4101.00	7494.21	0.0	105000.0
R8DCCONT2	362	4157.63	5578.70	0.0	35000.0
R9DCCONT2	436	5500.79	18306.54	0.0	356400.0
R10DCCONT2	712	5054.31	8173.61	0.0	130000.0
R11DCCONT2	463	4612.21	6331.21	0.0	46153.8
R12DCCONT2	450	5204.10	6443.73	0.0	30000.0
S1DCCONT2	747	3320.77	8319.75	0.0	149552.0
S2DCCONT2	86	3097.94	6431.59	0.0	55800.0
S3DCCONT2	105	3255.25	6890.82	0.0	65000.0
S4DCCONT2	287	3124.95	3765.03	0.0	35400.0
S5DCCONT2	102	2583.18	2831.88	0.0	12200.0
S6DCCONT2	234	5066.92	8954.93	0.0	90000.0
S7DCCONT2	505	4512.61	8314.21	0.0	105000.0
S8DCCONT2	270	4650.77	5978.87	0.0	35000.0
S9DCCONT2	339	5853.86	20472.59	0.0	356400.0
S10DCCONT2	518	4993.52	6464.17	0.0	48000.0
S11DCCONT2	340	4836.46	6701.18	0.0	46153.8
S12DCCONT2	330	5668.84	6800.01	0.0	30000.0
R1DCCONT3	98	2384.29	2574.55	0.0	11200.0
R2DCCONT3	22	2115.05	3244.74	0.0	10000.0
R3DCCONT3	19	1592.82	2808.46	0.0	9400.0
R4DCCONT3	46	3356.76	11421.44	0.0	76076.0
R5DCCONT3	22	1041.19	2603.65	0.0	12200.0
R6DCCONT3	28	2136.98	3106.26	0.0	10800.0
R7DCCONT3	86	3795.63	6389.99	0.0	42000.0
R8DCCONT3	31	3322.12	4851.87	0.0	20000.0
R9DCCONT3	52	3628.15	5939.26	0.0	20000.0
R10DCCONT3	93	3964.34	8382.90	0.0	56160.0
R11DCCONT3	71	4780.62	7394.46	0.0	31500.0
R12DCCONT3	74	3910.33	4903.54	0.0	19200.0
S1DCCONT3	76	2356.64	2528.14	0.0	11200.0
S2DCCONT3	19	1835.11	2913.16	0.0	7956.0
S3DCCONT3	17	1734.33	2941.47	0.0	9400.0
S4DCCONT3	39	3901.31	12347.01	0.0	76076.0
S5DCCONT3	16	1129.92	3031.33	0.0	12200.0
S6DCCONT3	23	2199.17	3123.76	0.0	10800.0
S7DCCONT3	67	3855.88	6813.94	0.0	42000.0
S8DCCONT3	28	2888.77	4579.66	0.0	20000.0
S9DCCONT3	41	3387.03	5459.92	0.0	20000.0
S10DCCONT3	68	4281.26	9373.00	0.0	56160.0
S11DCCONT3	57	4928.29	7053.55	0.0	30000.0
S12DCCONT3	54	4031.06	5136.13	0.0	19200.0
R5DCCONT4	3	5596.15	5968.06	588.5	12200.0
R6DCCONT4	3	4680.00	8106.00	0.0	14040.0
R7DCCONT4	15	2000.43	3310.27	0.0	11520.0
R8DCCONT4	1	20000.00		20000.0	20000.0
R9DCCONT4	5	9874.06	20218.31	0.0	46000.0
R10DCCONT4	7	7324.40	16814.56	0.0	45230.8
R11DCCONT4	7	5567.51	10036.47	0.0	27450.0
R12DCCONT4	6	1123.60	2104.73	0.0	5241.6

S5DCCONT4	3	5596.15	5968.06	588.5	12200.0
S6DCCONT4	3	4680.00	8106.00	0.0	14040.0
S7DCCONT4	14	1643.31	3121.01	0.0	11520.0
S8DCCONT4	1	20000.00		20000.0	20000.0
S9DCCONT4	4	12295.00	22493.72	0.0	46000.0
S10DCCONT4	5	10046.15	19787.60	0.0	45230.8
S11DCCONT4	6	6221.15	10829.95	0.0	27450.0
S12DCCONT4	5	300.00	670.82	0.0	1500.0

## How Constructed

RwDCCONT1, RwDCCONT2, RwDCCONT3 and RwDCCONT4 indicate the amount in nominal dollars that the Respondent contributes annually to a defined contribution pension plan at her/his current, primary job. Before Wave 5, employee contributions may be reported for up to 3 plans. From Wave 5 through Wave 10, employee contributions may be reported for up to 4 plans. From Wave 11 forward, Respondents may report information on up to 10 plans, but we are limiting the RAND HRS Longitudinal File to the first four active plans as they appear in the data, to align with previous waves. SwDCCONT1, SwDCCONT2, SwDCCONT3 and SwDCCONT4 provide this information for the Respondent's spouse or partner.

If the Respondent is working for the same employer as in the previous wave and was previously included in a pension plan, then s/he is asked if the rules of the pension plan have changed. If the Respondent indicates that the rules have changed, s/he is asked the complete set of questions about newly reported pensions. Prior to Wave 6, if the rules have not changed, Respondents are not asked how much they contribute to the plan, and these responses are set to .Q. Beginning in Wave 6, all Respondents are asked how much they contribute to each defined contribution plan.

If the Respondent is included in a pension in her/his current job, then s/he is asked for the type of plan. In Waves 1-8 and Wave 11 forward, employee contributions are calculated for Respondents who indicate a plan type of Type B or both. In Waves 9-10, dollar amounts are calculated for Respondents who either a) consistently identify a defined contribution plan through the plan type (i.e., Type B or both) and the detailed plan name (e.g., 401K, 403b, etc.) or b) indicate a plan type of Type B or both and have a high level of confidence in their plan type selection. In all Waves, Respondents who indicate a plan type of Type A (defined benefit), or who do not know or refuse to disclose the plan type, are set to .B.

In all Waves, Respondents have the option to report employee contributions as a percentage of their annual wages or as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are annualized. If the Respondent reports contributions as a percentage, annual contributions are calculated by multiplying the reported percent by the Respondent's annual wages from her/his current, primary job. If the Respondent reports contributions as a fixed dollar amount per time period, annual contributions are calculated based on the hours and weeks the Respondent reports working for her/his current, primary job.

If the amount contributed is missing, the variables are recoded. RwDCCONTx is set to .Q for defined contribution plans if the questions are not asked of any Respondent in a given wave (e.g., Respondents to Wave 2A or Respondents with plans with no rule changes in Waves 2H-5). If the Respondent does not have a given pension plan, the variables are set to .S (e.g., if the Respondent has one pension, RwDCCONT2, RwDCCONT3, and from Wave 5 on, RwDCCONT4 equal .S). RwDCCONTx is also set to .S if the Respondent does not have a pension plan associated with the current job, or does not provide a number of pension plans in waves prior to 11. RwDCCONTx is set to .W if the Respondent is not working, and to .K if one of the following is missing: wage information, the amount period, hours worked or weeks worked on primary job.

## Cross Wave Differences in Original HRS Data

In Waves 1-8 and Wave 11 forward, employee contributions to a defined contribution plan are calculated for Respondents who indicate a plan type equal to Type B or Both. In Waves 9 and 10, DC plans are defined in one of two ways: a) plans that are consistently identified as DC through the plan type (i.e., Type B or both) and the detailed plan name (e.g., 401K, 403b, etc.) or b) plans with a type of Type B or Both where Respondents have a high level of confidence in their plan type selection.

The wording of the employee contribution question varies slightly across waves and in some cases, by plan type. In Waves 1, 2H, 3A and 3H, all Respondents are asked, "How much do you contribute (as a percent of your pay or amount of money per month or year)?" This wording is also used for Respondents in Wave 4 who indicate that they have a newly reported plan with a plan type of both.

In Waves 4-8, for Respondents who indicate a newly reported Type B plan, or who in Waves 6 and 8 indicate a previously reported plan, the question is worded as follows, "How much do you currently contribute, that is, what is the sum of any amount that you are required to contribute plus any amount that you voluntarily contribute?"

For newly reported plans with a plan type of both in Waves 5-8, the question is worded as, "How much do you currently contribute, either as a percent of your pay or as an amount of money per month or year?"

Beginning in Wave 9, two separate questions are asked of the Respondent about each plan. The first asks, "Do you make any contributions toward [that plan/(plan name)]?" The second has the same wording as those for newly reported plans in Waves 5-8.

In Waves 2H and 3A, the questions are asked separately for those employed by a firm and those that are self-employed. The question wording is the same in both places.

In Wave 3A, Respondents who work at a firm are asked to report on employee contributions to up to three plans. The self-employed are asked to report on only one plan.

In Waves 2H, 3A, 3H, 4 and 5, employee contribution questions are not asked of those who are with the same employer and who reported having a pension plan at the previous wave where the rules have not changed. The variables for these Respondents are set to .Q.

The questions are not asked in Wave 2A.

Beginning in Wave 5, a fourth plan is added if the Respondent reports having at least four plans.

Prior to Wave 11, the Respondent is asked to list her/his pensions in order of importance. From Wave 11 forward, due to the questionnaire change, the Respondent answers questions about all pension plans, with no regard to importance. We report employee contributions for up to the first four active plans in the data to remain consistent with earlier waves.

## HRS Variables Used

HRS 1992:	
V2909	F39:P1-TYPE OF PLAN
V2911	F41:P1- ADD TO ACCT
V2912	F41:P1-\$ ADD TO ACCT
V2913	F41:P1-ADD TO ACCT-FREQ
V2937	F57:TB/P1: YOU CONTRIB
V2938	F57:TB/P1:\$ YOU CONTRIB
V2939	F57:TB/P1:FREQ YOU CONTR

V3009	F39:P2-TYPE OF PLAN
V3011	F41:P2- ADD TO ACCT
V3012	F41:P2-\$ ADD TO ACCT
V3013	F41:P2-ADD TO ACCT-FREQ
V3037	F57:TB/P2: YOU CONTRIB
V3038	F57:TB/P2:\$ YOU CONTRIB
V3039	F57:TB/P2:FREQ YOU CONTR
V3109	F39:P3-TYPE OF PLAN
V3111	F41:P3- ADD TO ACCT
V3112	F41:P3-\$ ADD TO ACCT
V3113	F41:P3-ADD TO ACCT-FREQ
V3137	F57:TB/P3: YOU CONTRIB
V3138	F57:TB/P3:\$ YOU CONTRIB
V3139	F57:TB/P3:FREQ YOU CONTR
HRS 1994:	
W3712	1. FA65.TYPE OF PENSION
W3724	2. FA65.TYPE OF PENSION
W3736	3. FA65.TYPE OF PENSION
W3756	1. FA73.TYPE OF PENSION
W3758	1. FA75.FORM OF CONTRIBU
W3759	1. FA75a.% OF PAY
W3760	1. FA75b.AMOUNT OF CONTR
W3761	1. FA75c.AMOUNT PER TIME
W3793	1. FA91.AMOUNT OF OWN CO
W3794	1. FA91a.OWN CONTRIBUTIO
W3795	1. FA91b.OWN CONTRIBUTIO
W3796	1. FA91c.OWN CONTRIBUTIO
W3808	2. FA73.TYPE OF PENSION
W3810	2. FA75.FORM OF CONTRIBU
W3811	2. FA75a.% OF PAY
W3812	2. FA75b.AMOUNT CONTRIBU
W3813	2. FA75c.AMOUNT PER TIME
W3845	2. FA91.FORM OF OWN CONT
W3846	2. FA91a.OWN CONTRIBUTIO
W3847	2. FA91b.OWN CONTRIBUTIO
W3848	2. FA91c.OWN CONTRIBUTIO
W3860	3. FA73.TYPE OF PENSION
W3862	3. FA75.FORM OF CONTRIBU
W3863	3. FA75a.% OF PAY
W3864	3. FA75b.AMOUNT OF CONTR
W3865	3. FA75c.AMOUNT PER TIME
W3897	3. FA91.FORM OF OWN CONT
W3898	3. FA91a.OWN CONTRIBUTIO
W3899	3. FA91b.OWN CONTRIBUTIO
W3900	3. FA91c.OWN CONTRIBUTIO
W4378	1. FB29.TYPE OF RETIREME
W4390	2. FB29.TYPE OF RETIREME
W4402	3. FB29.TYPE OF RETIREME
W4415	1. FB37.TYPE OF PENSION
W4417	1. FB39.FORM OF OWN CONT
W4418	1. FB39a.OWN CONTRIBUTIO
W4419	1. FB39b.OWN CONTRIBUTIO
W4420	1. FB39c.OWN CONTRIBUTIO
W4447	1. FB53.# OF YEARS IN PL
W4452	1. FB55.FORM OF RS CONTR
W4453	1. FB55a.% OF PAY
W4454	1. FB55b.AMOUNT OF RS CO
W4455	1. FB55c.AMOUNT OF RS CO
W4467	2. FB37.TYPE OF PENSION

W4469	2. FB39.TYPE OF CONTRIBU
W4470	2. FB39a.% OF PAY CONTRI
W4504	2. FB55.FORM OF RS CONTR
W4505	2. FB55a.% OF PAY
W4506	2. FB55b.AMOUNT OF RS CO
W4507	2. FB55c.AMOUNT OF RS CO
W4519	3. FB37.TYPE OF PENSION
W4520	3. FB38.AMOUNT IN ACCOUN
W4522	3. FB39a.% OF PAY CONTRI
W4523	3. FB39b.AMOUNT CURRENTL
W4524	3. FB39c.AMOUNT CURRENTL
W4556	3. FB55.FORM OF RS CONTR
W4557	3. FB55a.% OF PAY
W4558	3. FB55b.AMOUNT OF RS CO
W4559	3. FB55c.AMOUNT OF RS CO
AHEAD 1995:	
D2928	GA63.PENSION RULES CHANGED
D2969_1	GA73. TYPE PENSION
D2969_2	GA73. TYPE PENSION
D2969_3	GA73. TYPE PENSION
D2971_1	GA75. AMOUNT R CONTRIBUTES
D2971_2	GA75. AMOUNT R CONTRIBUTES
D2971_3	GA75. AMOUNT R CONTRIBUTES
D2972_1	GA75A. PERCENT PAY CONTRIBUTED
D2972_2	GA75A. PERCENT PAY CONTRIBUTED
D2972_3	GA75A. PERCENT PAY CONTRIBUTED
D2973_1	GA75B. AMOUNT DOLLARS CONTRIBUTED
D2973_2	GA75B. AMOUNT DOLLARS CONTRIBUTED
D2973_3	GA75B. AMOUNT DOLLARS CONTRIBUTED
D2974_1	GA75C. AMOUNT CONTRIBUTED PER
D2974_2	GA75C. AMOUNT CONTRIBUTED PER
D2974_3	GA75C. AMOUNT CONTRIBUTED PER
D3031_1	GA91. HOW R CONTRIBUTE DC
D3031_2	GA91. HOW R CONTRIBUTE DC
D3031_3	GA91. HOW R CONTRIBUTE DC
D3032_1	GA91A. R CONTRIBUTE PERCENT PAY
D3032_2	GA91A. R CONTRIBUTE PERCENT PAY
D3032_3	GA91A. R CONTRIBUTE PERCENT PAY
D3033_1	GA91B. AMOUNT R CONTRIBUTE DC
D3033_2	GA91B. AMOUNT R CONTRIBUTE DC
D3033_3	GA91B. AMOUNT R CONTRIBUTE DC
D3034_1	GA91C. AMOUNT R CONTRIBUTE PER
D3034_2	GA91C. AMOUNT R CONTRIBUTE PER
D3034_3	GA91C. AMOUNT R CONTRIBUTE PER
D3330_1	GB37. TYPE PENSION
D3332_1	GB39. AMOUNT R CONTRIBUTES
D3333_1	GB39A. PERCENT PAY CONTRIBUTED
D3334_1	GB39B. AMOUNT DOLLARS CONTRIBUTED
D3335_1	GB39C. AMOUNT CONTRIBUTED PER
D3395_1	GB55. HOW R CONTRIBUTE DC
D3396_1	GB55A. R CONTRIBUTE PERCENT PAY
D3397_1	GB55B. AMOUNT R CONTRIBUTE DC
D3398_1	GB55C. AMOUNT R CONTRIBUTE PER
HRS 1996:	
E2834	G67_.BRANCHPOINT
E2835	G67.PENSION RULES CHANGED
E2840_1	G69.TYPE OF PENSION
E2840_2	G69.TYPE OF PENSION
E2840_3	G69.TYPE OF PENSION

E2875_1	G77.TYPE OF PENSION
E2875_2	G77.TYPE OF PENSION
E2875_3	G77.TYPE OF PENSION
E2877_1	G79.FORM OF CONTRIBUTION
E2877_2	G79.FORM OF CONTRIBUTION
E2877_3	G79.FORM OF CONTRIBUTION
E2878_1	G79A.CONTRIBUTION-% OF PAY
E2878_2	G79A.CONTRIBUTION-% OF PAY
E2878_3	G79A.CONTRIBUTION-% OF PAY
E2879_1	G79B.CONTRIBUTION-AMOUNT
E2879_2	G79B.CONTRIBUTION-AMOUNT
E2879_3	G79B.CONTRIBUTION-AMOUNT
E2880_1	G79C.CONTRIBUTION-PER
E2880_2	G79C.CONTRIBUTION-PER
E2880_3	G79C.CONTRIBUTION-PER
E2936_1	G95.FORM OF OWN CONTRIBUTION
E2936_2	G95.FORM OF OWN CONTRIBUTION
E2936_3	G95.FORM OF OWN CONTRIBUTION
E2937_1	G95A.OWN CONTRIBUTION-%
E2937_2	G95A.OWN CONTRIBUTION-%
E2937_3	G95A.OWN CONTRIBUTION-%
E2938_1	G95B.OWN CONTRIBUTION-AMOUNT
E2938_2	G95B.OWN CONTRIBUTION-AMOUNT
E2938_3	G95B.OWN CONTRIBUTION-AMOUNT
E2939_1	G95C.OWN CONTRIBUTION-PER
E2939_2	G95C.OWN CONTRIBUTION-PER
E2939_3	G95C.OWN CONTRIBUTION-PER
HRS 1998:	
F3358	G67 BRANCHPOINT
F3359	G67.PENSION RULES CHANGED
F3364_1	G69.TYPE OF PENSION
F3364_2	G69.TYPE OF PENSION
F3364_3	G69.TYPE OF PENSION
F3403_1	G77.TYPE OF PENSION
F3403_2	G77.TYPE OF PENSION
F3403_3	G77.TYPE OF PENSION
F3405_1	G79.FORM OF CONTRIBUTION
F3405_2	G79.FORM OF CONTRIBUTION
F3405_3	G79.FORM OF CONTRIBUTION
F3406_1	G79A.CONTRIBUTION-% OF PAY
F3406_2	G79A.CONTRIBUTION-% OF PAY
F3406_3	G79A.CONTRIBUTION-% OF PAY
F3407_1	G79B.CONTRIBUTION-AMOUNT
F3407_2	G79B.CONTRIBUTION-AMOUNT
F3407_3	G79B.CONTRIBUTION-AMOUNT
F3408_1	G79C.CONTRIBUTION-PER
F3408_2	G79C.CONTRIBUTION-PER
F3408_3	G79C.CONTRIBUTION-PER
F3464_1	G95.FORM OF OWN CONTRIBUTION
F3464_2	G95.FORM OF OWN CONTRIBUTION
F3464_3	G95.FORM OF OWN CONTRIBUTION
F3465_1	G95A.OWN CONTRIBUTION-%
F3465_2	G95A.OWN CONTRIBUTION-%
F3465_3	G95A.OWN CONTRIBUTION-%
F3466_1	G95B.OWN CONTRIBUTION-AMOUNT
F3466_2	G95B.OWN CONTRIBUTION-AMOUNT
F3466_3	G95B.OWN CONTRIBUTION-AMOUNT
F3467_1	G95C.OWN CONTRIBUTION-PER
F3467_2	G95C.OWN CONTRIBUTION-PER

F3467_3	G95C.OWN CONTRIBUTION-PER
HRS 2000:	
G3618	G67Y1.G67 BRANCHPOINT
G3619	G67.PENSION RULES CHANGED
G3624_1	G69.TYPE OF PENSION
G3624_2	G69.TYPE OF PENSION
G3624_3	G69.TYPE OF PENSION
G3624_4	G69.TYPE OF PENSION
G3683_1	G77.TYPE OF PENSION
G3683_2	G77.TYPE OF PENSION
G3683_3	G77.TYPE OF PENSION
G3683_4	G77.TYPE OF PENSION
G3689_1	G79.FORM OF CONTRIBUTION
G3689_2	G79.FORM OF CONTRIBUTION
G3689_3	G79.FORM OF CONTRIBUTION
G3689_4	G79.FORM OF CONTRIBUTION
G3690_1	G79A.CONTRIBUTION-PCT OF PAY
G3690_2	G79A.CONTRIBUTION-PCT OF PAY
G3690_3	G79A.CONTRIBUTION-PCT OF PAY
G3690_4	G79A.CONTRIBUTION-PCT OF PAY
G3691_1	G79B.CONTRIBUTION-AMOUNT
G3691_2	G79B.CONTRIBUTION-AMOUNT
G3691_3	G79B.CONTRIBUTION-AMOUNT
G3691_4	G79B.CONTRIBUTION-AMOUNT
G3692_1	G79C.CONTRIBUTION-PER
G3692_2	G79C.CONTRIBUTION-PER
G3692_3	G79C.CONTRIBUTION-PER
G3692_4	G79C.CONTRIBUTION-PER
G3749_1	G95.FORM OF OWN CONTRIBUTION
G3749_2	G95.FORM OF OWN CONTRIBUTION
G3749_3	G95.FORM OF OWN CONTRIBUTION
G3749_4	G95.FORM OF OWN CONTRIBUTION
G3750_1	G95A.OWN CONTRIBUTION-PCT
G3750_2	G95A.OWN CONTRIBUTION-PCT
G3750_3	G95A.OWN CONTRIBUTION-PCT
G3750_4	G95A.OWN CONTRIBUTION-PCT
G3751_1	G95B.OWN CONTRIBUTION-AMOUNT
G3751_2	G95B.OWN CONTRIBUTION-AMOUNT
G3751_3	G95B.OWN CONTRIBUTION-AMOUNT
G3751_4	G95B.OWN CONTRIBUTION-AMOUNT
G3752_1	G95C.OWN CONTRIBUTION-PER
G3752_2	G95C.OWN CONTRIBUTION-PER
G3752_3	G95C.OWN CONTRIBUTION-PER
G3752_4	G95C.OWN CONTRIBUTION-PER
HRS 2002:	
HJ267	J267 BRANCHPOINT
HJ268	PENSION RULES CHANGED
HJ272_1	TYPE OF PENSION- 1
HJ272_2	TYPE OF PENSION- 2
HJ272_3	TYPE OF PENSION- 3
HJ272_4	TYPE OF PENSION- 4
HJ281_1	CURRENTLY CONTRIBUTE- BOTH A/B PART-1
HJ281_2	CURRENTLY CONTRIBUTE- BOTH A/B PART-2
HJ281_3	CURRENTLY CONTRIBUTE- BOTH A/B PART-3
HJ281_4	CURRENTLY CONTRIBUTE- BOTH A/B PART-4
HJ282_1	CURRENTLY CONTRIB- BOTH A/B PART-PCT-1
HJ282_2	CURRENTLY CONTRIB- BOTH A/B PART-PCT-2
HJ282_3	CURRENTLY CONTRIB- BOTH A/B PART-PCT-3
HJ282_4	CURRENTLY CONTRIB- BOTH A/B PART-PCT-4

HJ283_1	CURRENTLY CONTRIB- BOTH A/B PART-AMT-1
HJ283_2	CURRENTLY CONTRIB- BOTH A/B PART-AMT-2
HJ283_3	CURRENTLY CONTRIB- BOTH A/B PART-AMT-3
HJ283_4	CURRENTLY CONTRIB- BOTH A/B PART-AMT-4
HJ284_1	CURRENT CONTRIB-BOTH A/B PART-AMT-PER-1
HJ284_2	CURREN CONTRIB-BOTH A/B PART-AMT-PER-1
HJ284_3	CURRENT CONTRIB-BOTH A/B PART-AMT-PER-3
HJ284_4	CURREN CONTRIB-BOTH A/B PART-AMT-PER-1
HJ318_1	CURRENTLY CONTRIBUTE- TYPE B ONLY-1
HJ318_2	CURRENTLY CONTRIBUTE- TYPE B ONLY-2
HJ318_3	CURRENTLY CONTRIBUTE- TYPE B ONLY-3
HJ318_4	CURRENTLY CONTRIBUTE- TYPE B ONLY-4
HJ319_1	CURRENTLY CONTRIBUTE- B ONLY- PERCENT-1
HJ319_2	CURRENTLY CONTRIBUTE- B ONLY- PERCENT-2
HJ319_3	CURRENTLY CONTRIBUTE- B ONLY- PERCENT-3
HJ319_4	CURRENTLY CONTRIBUTE- B ONLY- PERCENT-4
HJ320_1	AMT CONTRIBUTE- TYPE B ONLY-1
HJ320_2	AMT CONTRIBUTE- TYPE B ONLY-2
HJ320_3	AMT CONTRIBUTE- TYPE B ONLY-3
HJ320_4	AMT CONTRIBUTE- TYPE B ONLY-4
HJ321_1	AMT CONTRIBUTE- TYPE B ONLY- PER-1
HJ321_2	AMT CONTRIBUTE- TYPE B ONLY- PER-2
HJ321_3	AMT CONTRIBUTE- TYPE B ONLY- PER-3
HJ321_4	AMT CONTRIBUTE- TYPE B ONLY- PER-4
HJ338_1	PENSION PLAN TYPE- 1
HJ338_2	PENSION PLAN TYPE- 2
HJ338_3	PENSION PLAN TYPE- 3
HJ338_4	PENSION PLAN TYPE- 4
HJ343_1	FORM OF CONTRIBUTION-1
HJ343_2	FORM OF CONTRIBUTION-2
HJ343_3	FORM OF CONTRIBUTION-3
HJ343_4	FORM OF CONTRIBUTION-4
HJ344_1	CONTRIBUTION-PCT OF PAY-1
HJ344_2	CONTRIBUTION-PCT OF PAY-2
HJ344_3	CONTRIBUTION-PCT OF PAY-3
HJ344_4	CONTRIBUTION-PCT OF PAY-4
HJ345_1	CURRENT AMOUNT OF CONTRIBUTION-1
HJ345_2	CURRENT AMOUNT OF CONTRIBUTION-2
HJ345_3	CURRENT AMOUNT OF CONTRIBUTION-3
HJ345_4	CURRENT AMOUNT OF CONTRIBUTION-4
HJ349_1	CURRENT AMOUNT OF CONTRIBUTION PER-1
HJ349_2	CURRENT AMOUNT OF CONTRIBUTION PER-2
HJ349_3	CURRENT AMOUNT OF CONTRIBUTION PER-3
HJ349_4	CURRENT AMOUNT OF CONTRIBUTION PER-4
HJ404_1	FORM OF OWN CONTRIBUTION-1
HJ404_2	FORM OF OWN CONTRIBUTION-2
HJ404_3	FORM OF OWN CONTRIBUTION-3
HJ404_4	FORM OF OWN CONTRIBUTION-4
HJ405_1	OWN CONTRIBUTION-PCT-1
HJ405_2	OWN CONTRIBUTION-PCT-2
HJ405_3	OWN CONTRIBUTION-PCT-3
HJ405_4	OWN CONTRIBUTION-PCT-4
HJ406_1	OWN CONTRIBUTION-AMOUNT-1
HJ406_2	OWN CONTRIBUTION-AMOUNT-2
HJ406_3	OWN CONTRIBUTION-AMOUNT-3
HJ406_4	OWN CONTRIBUTION-AMOUNT-4
HJ410_1	OWN CONTRIBUTION- AMT- PER-1
HJ410_2	OWN CONTRIBUTION- AMT- PER-2
HJ410_3	OWN CONTRIBUTION- AMT- PER-3



HJ410\_4                   OWN CONTRIBUTION- AMT- PER-4

HRS 2004:

JJ338A                   PENSION PLAN TYPE- 1

JJ338B                   PENSION PLAN TYPE- 2

JJ338C                   PENSION PLAN TYPE- 3

JJ338D                   PENSION PLAN TYPE- 4

JJ343A                   FORM OF CONTRIBUTION-1

JJ343B                   FORM OF CONTRIBUTION-2

JJ343C                   FORM OF CONTRIBUTION-3

JJ343D                   FORM OF CONTRIBUTION-4

JJ344A                   CONTRIBUTION-PCT OF PAY-1

JJ344B                   CONTRIBUTION-PCT OF PAY-2

JJ344C                   CONTRIBUTION-PCT OF PAY-3

JJ344D                   CONTRIBUTION-PCT OF PAY-4

JJ345A                   CURRENT AMOUNT OF CONTRIBUTION-1

JJ345B                   CURRENT AMOUNT OF CONTRIBUTION-2

JJ345C                   CURRENT AMOUNT OF CONTRIBUTION-3

JJ345D                   CURRENT AMOUNT OF CONTRIBUTION-4

JJ349A                   CURRENT AMOUNT OF CONTRIBUTION PER-1

JJ349B                   CURRENT AMOUNT OF CONTRIBUTION PER-2

JJ349C                   CURRENT AMOUNT OF CONTRIBUTION PER-3

JJ349D                   CURRENT AMOUNT OF CONTRIBUTION PER-4

JJ404A                   FORM OF OWN CONTRIBUTION-1

JJ404B                   FORM OF OWN CONTRIBUTION-2

JJ404C                   FORM OF OWN CONTRIBUTION-3

JJ404D                   FORM OF OWN CONTRIBUTION-4

JJ405A                   OWN CONTRIBUTION-PCT-1

JJ405B                   OWN CONTRIBUTION-PCT-2

JJ405C                   OWN CONTRIBUTION-PCT-3

JJ405D                   OWN CONTRIBUTION-PCT-4

JJ406A                   OWN CONTRIBUTION-AMOUNT-1

JJ406B                   OWN CONTRIBUTION-AMOUNT-2

JJ406C                   OWN CONTRIBUTION-AMOUNT-3

JJ406D                   OWN CONTRIBUTION-AMOUNT-4

JJ410A                   OWN CONTRIBUTION- AMT- PER-1

JJ410B                   OWN CONTRIBUTION- AMT- PER-2

JJ410C                   OWN CONTRIBUTION- AMT- PER-3

JJ410D                   OWN CONTRIBUTION- AMT- PER-4

HRS 2006:

KJ272A                   TYPE OF PENSION- 1 -1

KJ272B                   TYPE OF PENSION- 1 -2

KJ272C                   TYPE OF PENSION- 1 -3

KJ272D                   TYPE OF PENSION- 1 -4

KJ281A                   CURRENTLY CONTRIBUTE- TYPE B PART -1

KJ281B                   CURRENTLY CONTRIBUTE- TYPE B PART -2

KJ281C                   CURRENTLY CONTRIBUTE- TYPE B PART -3

KJ281D                   CURRENTLY CONTRIBUTE- TYPE B PART -4

KJ282A                   CURRENTLY CONTRIB-TYPE B PART-PERCENT -1

KJ282B                   CURRENTLY CONTRIB- TYPE B PART-PERCENT-2

KJ282C                   CURRENTLY CONTRIB-TYPE B PART-PERCENT -3

KJ282D                   CURRENTLY CONTRIB- TYPE B PART-PERCENT-4

KJ283A                   CURRENTLY CONTRIBUTE-TYPE B PART- AMT -1

KJ283B                   CURRENTLY CONTRIBUTE-TYPE B PART- AMT -2

KJ283C                   CURRENTLY CONTRIBUTE- TYPE B PART- AMT-3

KJ283D                   CURRENTLY CONTRIBUTE- TYPE B PART- AMT-4

KJ284A                   CURRENTLY CONTRIB-TYPE B PART-AMT-PER -1

KJ284B                   CURRENTLY CONTRIB- TYPE B PART-AMT-PER-2

KJ284C                   CURRENTLY CONTRIB-TYPE B PART-AMT-PER -3

KJ284D                   CURRENTLY CONTRIB- TYPE B PART-AMT-PER-4

KJ318A	CURRENTLY CONTRIBUTE- TYPE B ONLY -1
KJ318B	CURRENTLY CONTRIBUTE- TYPE B ONLY -2
KJ318C	CURRENTLY CONTRIBUTE- TYPE B ONLY -3
KJ318D	CURRENTLY CONTRIBUTE- TYPE B ONLY -4
KJ319A	CURRENTLY CONTRIBUTE- B ONLY- PERCENT -1
KJ319B	CURRENTLY CONTRIBUTE- B ONLY- PERCENT -2
KJ319C	CURRENTLY CONTRIBUTE- B ONLY- PERCENT -3
KJ319D	CURRENTLY CONTRIBUTE- B ONLY- PERCENT -4
KJ320A	AMT CONTRIBUTE- TYPE B ONLY -1
KJ320B	AMT CONTRIBUTE- TYPE B ONLY -2
KJ320C	AMT CONTRIBUTE- TYPE B ONLY -3
KJ320D	AMT CONTRIBUTE- TYPE B ONLY -4
KJ321A	AMT CONTRIBUTE- TYPE B ONLY- PER -1
KJ321B	AMT CONTRIBUTE- TYPE B ONLY- PER -2
KJ321C	AMT CONTRIBUTE- TYPE B ONLY- PER -3
KJ321D	AMT CONTRIBUTE- TYPE B ONLY- PER -4
KJ338A	PENSION PLAN TYPE- 1
KJ338B	PENSION PLAN TYPE- 2
KJ338C	PENSION PLAN TYPE- 3
KJ338D	PENSION PLAN TYPE- 4
KJ343A	FORM OF CONTRIBUTION-1
KJ343B	FORM OF CONTRIBUTION-2
KJ343C	FORM OF CONTRIBUTION-3
KJ343D	FORM OF CONTRIBUTION-4
KJ344A	CONTRIBUTION-PCT OF PAY-1
KJ344B	CONTRIBUTION-PCT OF PAY-2
KJ344C	CONTRIBUTION-PCT OF PAY-3
KJ344D	CONTRIBUTION-PCT OF PAY-4
KJ345A	CURRENT AMOUNT OF CONTRIBUTION-1
KJ345B	CURRENT AMOUNT OF CONTRIBUTION-2
KJ345C	CURRENT AMOUNT OF CONTRIBUTION-3
KJ345D	CURRENT AMOUNT OF CONTRIBUTION-4
KJ349A	CURRENT AMOUNT OF CONTRIBUTION PER-1
KJ349B	CURRENT AMOUNT OF CONTRIBUTION PER-2
KJ349C	CURRENT AMOUNT OF CONTRIBUTION PER-3
KJ349D	CURRENT AMOUNT OF CONTRIBUTION PER-4
KJ404A	FORM OF OWN CONTRIBUTION-1
KJ404B	FORM OF OWN CONTRIBUTION-2
KJ404C	FORM OF OWN CONTRIBUTION-3
KJ404D	FORM OF OWN CONTRIBUTION-4
KJ405A	OWN CONTRIBUTION-PCT-1
KJ405B	OWN CONTRIBUTION-PCT-2
KJ405C	OWN CONTRIBUTION-PCT-3
KJ405D	OWN CONTRIBUTION-PCT-4
KJ406A	OWN CONTRIBUTION-AMOUNT-1
KJ406B	OWN CONTRIBUTION-AMOUNT-2
KJ406C	OWN CONTRIBUTION-AMOUNT-3
KJ406D	OWN CONTRIBUTION-AMOUNT-4
KJ410A	OWN CONTRIBUTION- AMT- PER-1
KJ410B	OWN CONTRIBUTION- AMT- PER-2
KJ410C	OWN CONTRIBUTION- AMT- PER-3
KJ410D	OWN CONTRIBUTION- AMT- PER-4
HRS 2008:	
LJ338_1	PENSION PLAN TYPE- 1
LJ338_2	PENSION PLAN TYPE- 2
LJ338_3	PENSION PLAN TYPE- 3
LJ338_4	PENSION PLAN TYPE- 4
LJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
LJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2

LJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
LJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
LJ404_1	FORM OF OWN CONTRIBUTION-1
LJ404_2	FORM OF OWN CONTRIBUTION-2
LJ404_3	FORM OF OWN CONTRIBUTION-3
LJ404_4	FORM OF OWN CONTRIBUTION-4
LJ405_1	OWN CONTRIBUTION-PCT-1
LJ405_2	OWN CONTRIBUTION-PCT-2
LJ405_3	OWN CONTRIBUTION-PCT-3
LJ405_4	OWN CONTRIBUTION-PCT-4
LJ406_1	OWN CONTRIBUTION-AMOUNT-1
LJ406_2	OWN CONTRIBUTION-AMOUNT-2
LJ406_3	OWN CONTRIBUTION-AMOUNT-3
LJ406_4	OWN CONTRIBUTION-AMOUNT-4
LJ410_1	OWN CONTRIBUTION- AMT- PER-1
LJ410_2	OWN CONTRIBUTION- AMT- PER-2
LJ410_3	OWN CONTRIBUTION- AMT- PER-3
LJ410_4	OWN CONTRIBUTION- AMT- PER-4
LJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
LJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
LJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
LJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
LJ881_1	IF R CONTRIBUTES -1
LJ881_2	IF R CONTRIBUTES -2
LJ881_3	IF R CONTRIBUTES -3
LJ881_4	IF R CONTRIBUTES -4
HRS 2010:	
MJ338_1	PENSION PLAN TYPE- 1
MJ338_2	PENSION PLAN TYPE- 2
MJ338_3	PENSION PLAN TYPE- 3
MJ338_4	PENSION PLAN TYPE- 4
MJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
MJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
MJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
MJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
MJ404_1	FORM OF OWN CONTRIBUTION-1
MJ404_2	FORM OF OWN CONTRIBUTION-2
MJ404_3	FORM OF OWN CONTRIBUTION-3
MJ404_4	FORM OF OWN CONTRIBUTION-4
MJ405_1	OWN CONTRIBUTION-PCT-1
MJ405_2	OWN CONTRIBUTION-PCT-2
MJ405_3	OWN CONTRIBUTION-PCT-3
MJ405_4	OWN CONTRIBUTION-PCT-4
MJ406_1	OWN CONTRIBUTION-AMOUNT-1
MJ406_2	OWN CONTRIBUTION-AMOUNT-2
MJ406_3	OWN CONTRIBUTION-AMOUNT-3
MJ406_4	OWN CONTRIBUTION-AMOUNT-4
MJ410_1	OWN CONTRIBUTION- AMT- PER-1
MJ410_2	OWN CONTRIBUTION- AMT- PER-2
MJ410_3	OWN CONTRIBUTION- AMT- PER-3
MJ410_4	OWN CONTRIBUTION- AMT- PER-4
MJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
MJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
MJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
MJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
MJ881_1	IF R CONTRIBUTES -1
MJ881_2	IF R CONTRIBUTES -2
MJ881_3	IF R CONTRIBUTES -3
MJ881_4	IF R CONTRIBUTES -4

## HRS 2012:

NJ2338_1	PENSION PLAN TYPE-DB OR DC -1_1
NJ2338_10	PENSION PLAN TYPE-DB OR DC -1_10
NJ2338_2	PENSION PLAN TYPE-DB OR DC -1_2
NJ2338_3	PENSION PLAN TYPE-DB OR DC -1_3
NJ2338_4	PENSION PLAN TYPE-DB OR DC -1_4
NJ2338_5	PENSION PLAN TYPE-DB OR DC -1_5
NJ2338_6	PENSION PLAN TYPE-DB OR DC -1_6
NJ2338_7	PENSION PLAN TYPE-DB OR DC -1_7
NJ2338_8	PENSION PLAN TYPE-DB OR DC -1_8
NJ2338_9	PENSION PLAN TYPE-DB OR DC -1_9
NJ2404_1	FORM OF OWN CONTRIBUTION -1_1
NJ2404_10	FORM OF OWN CONTRIBUTION -1_10
NJ2404_2	FORM OF OWN CONTRIBUTION -1_2
NJ2404_3	FORM OF OWN CONTRIBUTION -1_3
NJ2404_4	FORM OF OWN CONTRIBUTION -1_4
NJ2404_5	FORM OF OWN CONTRIBUTION -1_5
NJ2404_6	FORM OF OWN CONTRIBUTION -1_6
NJ2404_7	FORM OF OWN CONTRIBUTION -1_7
NJ2404_8	FORM OF OWN CONTRIBUTION -1_8
NJ2404_9	FORM OF OWN CONTRIBUTION -1_9
NJ2405_1	PCT-OWN CONTRIBUTION -1_1
NJ2405_10	PCT-OWN CONTRIBUTION -1_10
NJ2405_2	PCT-OWN CONTRIBUTION -1_2
NJ2405_3	PCT-OWN CONTRIBUTION -1_3
NJ2405_4	PCT-OWN CONTRIBUTION -1_4
NJ2405_5	PCT-OWN CONTRIBUTION -1_5
NJ2405_6	PCT-OWN CONTRIBUTION -1_6
NJ2405_7	PCT-OWN CONTRIBUTION -1_7
NJ2405_8	PCT-OWN CONTRIBUTION -1_8
NJ2405_9	PCT-OWN CONTRIBUTION -1_9
NJ2406_1	AMT-OWN CONTRIBUTION -1_1
NJ2406_10	AMT-OWN CONTRIBUTION -1_10
NJ2406_2	AMT-OWN CONTRIBUTION -1_2
NJ2406_3	AMT-OWN CONTRIBUTION -1_3
NJ2406_4	AMT-OWN CONTRIBUTION -1_4
NJ2406_5	AMT-OWN CONTRIBUTION -1_5
NJ2406_6	AMT-OWN CONTRIBUTION -1_6
NJ2406_7	AMT-OWN CONTRIBUTION -1_7
NJ2406_8	AMT-OWN CONTRIBUTION -1_8
NJ2406_9	AMT-OWN CONTRIBUTION -1_9
NJ2410_1	AMT-OWN CONTRIBUTION - PER -1_1
NJ2410_10	AMT-OWN CONTRIBUTION - PER -1_10
NJ2410_2	AMT-OWN CONTRIBUTION - PER -1_2
NJ2410_3	AMT-OWN CONTRIBUTION - PER -1_3
NJ2410_4	AMT-OWN CONTRIBUTION - PER -1_4
NJ2410_5	AMT-OWN CONTRIBUTION - PER -1_5
NJ2410_6	AMT-OWN CONTRIBUTION - PER -1_6
NJ2410_7	AMT-OWN CONTRIBUTION - PER -1_7
NJ2410_8	AMT-OWN CONTRIBUTION - PER -1_8
NJ2410_9	AMT-OWN CONTRIBUTION - PER -1_9
NJ2881_1	R CONTRIBUTE TO PLAN -1_1
NJ2881_10	R CONTRIBUTE TO PLAN -1_10
NJ2881_2	R CONTRIBUTE TO PLAN -1_2
NJ2881_3	R CONTRIBUTE TO PLAN -1_3
NJ2881_4	R CONTRIBUTE TO PLAN -1_4
NJ2881_5	R CONTRIBUTE TO PLAN -1_5
NJ2881_6	R CONTRIBUTE TO PLAN -1_6
NJ2881_7	R CONTRIBUTE TO PLAN -1_7

NJ2881_8	R CONTRIBUTE TO PLAN -1_8
NJ2881_9	R CONTRIBUTE TO PLAN -1_9
HRS 2014:	
OJ2338_1	PENSION PLAN TYPE-DB OR DC_1
OJ2338_10	PENSION PLAN TYPE-DB OR DC_10
OJ2338_2	PENSION PLAN TYPE-DB OR DC_2
OJ2338_3	PENSION PLAN TYPE-DB OR DC_3
OJ2338_4	PENSION PLAN TYPE-DB OR DC_4
OJ2338_5	PENSION PLAN TYPE-DB OR DC_5
OJ2338_6	PENSION PLAN TYPE-DB OR DC_6
OJ2338_7	PENSION PLAN TYPE-DB OR DC_7
OJ2338_8	PENSION PLAN TYPE-DB OR DC_8
OJ2338_9	PENSION PLAN TYPE-DB OR DC_9
OJ2404_1	FORM OF OWN CONTRIBUTION_1
OJ2404_10	FORM OF OWN CONTRIBUTION_10
OJ2404_2	FORM OF OWN CONTRIBUTION_2
OJ2404_3	FORM OF OWN CONTRIBUTION_3
OJ2404_4	FORM OF OWN CONTRIBUTION_4
OJ2404_5	FORM OF OWN CONTRIBUTION_5
OJ2404_6	FORM OF OWN CONTRIBUTION_6
OJ2404_7	FORM OF OWN CONTRIBUTION_7
OJ2404_8	FORM OF OWN CONTRIBUTION_8
OJ2404_9	FORM OF OWN CONTRIBUTION_9
OJ2405_1	PCT-OWN CONTRIBUTION_1
OJ2405_10	PCT-OWN CONTRIBUTION_10
OJ2405_2	PCT-OWN CONTRIBUTION_2
OJ2405_3	PCT-OWN CONTRIBUTION_3
OJ2405_4	PCT-OWN CONTRIBUTION_4
OJ2405_5	PCT-OWN CONTRIBUTION_5
OJ2405_6	PCT-OWN CONTRIBUTION_6
OJ2405_7	PCT-OWN CONTRIBUTION_7
OJ2405_8	PCT-OWN CONTRIBUTION_8
OJ2405_9	PCT-OWN CONTRIBUTION_9
OJ2406_1	AMT-OWN CONTRIBUTION_1
OJ2406_10	AMT-OWN CONTRIBUTION_10
OJ2406_2	AMT-OWN CONTRIBUTION_2
OJ2406_3	AMT-OWN CONTRIBUTION_3
OJ2406_4	AMT-OWN CONTRIBUTION_4
OJ2406_5	AMT-OWN CONTRIBUTION_5
OJ2406_6	AMT-OWN CONTRIBUTION_6
OJ2406_7	AMT-OWN CONTRIBUTION_7
OJ2406_8	AMT-OWN CONTRIBUTION_8
OJ2406_9	AMT-OWN CONTRIBUTION_9
OJ2410_1	AMT-OWN CONTRIBUTION - PER_1
OJ2410_10	AMT-OWN CONTRIBUTION - PER_10
OJ2410_2	AMT-OWN CONTRIBUTION - PER_2
OJ2410_3	AMT-OWN CONTRIBUTION - PER_3
OJ2410_4	AMT-OWN CONTRIBUTION - PER_4
OJ2410_5	AMT-OWN CONTRIBUTION - PER_5
OJ2410_6	AMT-OWN CONTRIBUTION - PER_6
OJ2410_7	AMT-OWN CONTRIBUTION - PER_7
OJ2410_8	AMT-OWN CONTRIBUTION - PER_8
OJ2410_9	AMT-OWN CONTRIBUTION - PER_9
OJ2881_1	R CONTRIBUTE TO PLAN_1
OJ2881_10	R CONTRIBUTE TO PLAN_10
OJ2881_2	R CONTRIBUTE TO PLAN_2
OJ2881_3	R CONTRIBUTE TO PLAN_3
OJ2881_4	R CONTRIBUTE TO PLAN_4
OJ2881_5	R CONTRIBUTE TO PLAN_5

OJ2881_6	R CONTRIBUTE TO PLAN_6
OJ2881_7	R CONTRIBUTE TO PLAN_7
OJ2881_8	R CONTRIBUTE TO PLAN_8
OJ2881_9	R CONTRIBUTE TO PLAN_9
OJ2Z140_1	PREV WAVE OLD PENSION TYPE_1
OJ2Z140_10	PREV WAVE OLD PENSION TYPE_10
OJ2Z140_2	PREV WAVE OLD PENSION TYPE_2
OJ2Z140_3	PREV WAVE OLD PENSION TYPE_3
OJ2Z140_4	PREV WAVE OLD PENSION TYPE_4
OJ2Z140_5	PREV WAVE OLD PENSION TYPE_5
OJ2Z140_6	PREV WAVE OLD PENSION TYPE_6
OJ2Z140_7	PREV WAVE OLD PENSION TYPE_7
OJ2Z140_8	PREV WAVE OLD PENSION TYPE_8
OJ2Z140_9	PREV WAVE OLD PENSION TYPE_9

<b>Respondent's account balance for DC plan from current job</b>
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Wave	Variable	Label	Type
1	R1DCBAL1	R1DCBAL1:W1 Current balance of DC plan #1	Cont
2	R2DCBAL1	R2DCBAL1:W2 Current balance of DC plan #1	Cont
3	R3DCBAL1	R3DCBAL1:W3 Current balance of DC plan #1	Cont
4	R4DCBAL1	R4DCBAL1:W4 Current balance of DC plan #1	Cont
5	R5DCBAL1	R5DCBAL1:W5 Current balance of DC plan #1	Cont
6	R6DCBAL1	R6DCBAL1:W6 Current balance of DC plan #1	Cont
7	R7DCBAL1	R7DCBAL1:W7 Current balance of DC plan #1	Cont
8	R8DCBAL1	R8DCBAL1:W8 Current balance of DC plan #1	Cont
9	R9DCBAL1	R9DCBAL1:W9 Current balance of DC plan #1	Cont
10	R10DCBAL1	R10DCBAL1:W10 Current balance of DC plan #1	Cont
11	R11DCBAL1	R11DCBAL1:W11 Current balance of DC plan #1	Cont
12	R12DCBAL1	R12DCBAL1:W12 Current balance of DC plan #1	Cont
1	S1DCBAL1	S1DCBAL1:W1 Current balance of DC plan #1	Cont
2	S2DCBAL1	S2DCBAL1:W2 Current balance of DC plan #1	Cont
3	S3DCBAL1	S3DCBAL1:W3 Current balance of DC plan #1	Cont
4	S4DCBAL1	S4DCBAL1:W4 Current balance of DC plan #1	Cont
5	S5DCBAL1	S5DCBAL1:W5 Current balance of DC plan #1	Cont
6	S6DCBAL1	S6DCBAL1:W6 Current balance of DC plan #1	Cont
7	S7DCBAL1	S7DCBAL1:W7 Current balance of DC plan #1	Cont
8	S8DCBAL1	S8DCBAL1:W8 Current balance of DC plan #1	Cont
9	S9DCBAL1	S9DCBAL1:W9 Current balance of DC plan #1	Cont
10	S10DCBAL1	S10DCBAL1:W10 Current balance of DC plan #1	Cont
11	S11DCBAL1	S11DCBAL1:W11 Current balance of DC plan #1	Cont
12	S12DCBAL1	S12DCBAL1:W12 Current balance of DC plan #1	Cont
1	R1DCBAL2	R1DCBAL2:W1 Current balance of DC plan #2	Cont
2	R2DCBAL2	R2DCBAL2:W2 Current balance of DC plan #2	Cont
3	R3DCBAL2	R3DCBAL2:W3 Current balance of DC plan #2	Cont
4	R4DCBAL2	R4DCBAL2:W4 Current balance of DC plan #2	Cont
5	R5DCBAL2	R5DCBAL2:W5 Current balance of DC plan #2	Cont
6	R6DCBAL2	R6DCBAL2:W6 Current balance of DC plan #2	Cont
7	R7DCBAL2	R7DCBAL2:W7 Current balance of DC plan #2	Cont
8	R8DCBAL2	R8DCBAL2:W8 Current balance of DC plan #2	Cont
9	R9DCBAL2	R9DCBAL2:W9 Current balance of DC plan #2	Cont
10	R10DCBAL2	R10DCBAL2:W10 Current balance of DC plan #2	Cont
11	R11DCBAL2	R11DCBAL2:W11 Current balance of DC plan #2	Cont
12	R12DCBAL2	R12DCBAL2:W12 Current balance of DC plan #2	Cont
1	S1DCBAL2	S1DCBAL2:W1 Current balance of DC plan #2	Cont
2	S2DCBAL2	S2DCBAL2:W2 Current balance of DC plan #2	Cont
3	S3DCBAL2	S3DCBAL2:W3 Current balance of DC plan #2	Cont
4	S4DCBAL2	S4DCBAL2:W4 Current balance of DC plan #2	Cont
5	S5DCBAL2	S5DCBAL2:W5 Current balance of DC plan #2	Cont
6	S6DCBAL2	S6DCBAL2:W6 Current balance of DC plan #2	Cont
7	S7DCBAL2	S7DCBAL2:W7 Current balance of DC plan #2	Cont
8	S8DCBAL2	S8DCBAL2:W8 Current balance of DC plan #2	Cont
9	S9DCBAL2	S9DCBAL2:W9 Current balance of DC plan #2	Cont
10	S10DCBAL2	S10DCBAL2:W10 Current balance of DC plan #2	Cont
11	S11DCBAL2	S11DCBAL2:W11 Current balance of DC plan #2	Cont
12	S12DCBAL2	S12DCBAL2:W12 Current balance of DC plan #2	Cont
1	R1DCBAL3	R1DCBAL3:W1 Current balance of DC plan #3	Cont
2	R2DCBAL3	R2DCBAL3:W2 Current balance of DC plan #3	Cont
3	R3DCBAL3	R3DCBAL3:W3 Current balance of DC plan #3	Cont
4	R4DCBAL3	R4DCBAL3:W4 Current balance of DC plan #3	Cont
5	R5DCBAL3	R5DCBAL3:W5 Current balance of DC plan #3	Cont
6	R6DCBAL3	R6DCBAL3:W6 Current balance of DC plan #3	Cont
7	R7DCBAL3	R7DCBAL3:W7 Current balance of DC plan #3	Cont
8	R8DCBAL3	R8DCBAL3:W8 Current balance of DC plan #3	Cont
9	R9DCBAL3	R9DCBAL3:W9 Current balance of DC plan #3	Cont
10	R10DCBAL3	R10DCBAL3:W10 Current balance of DC plan #3	Cont
11	R11DCBAL3	R11DCBAL3:W11 Current balance of DC plan #3	Cont
12	R12DCBAL3	R12DCBAL3:W12 Current balance of DC plan #3	Cont
1	S1DCBAL3	S1DCBAL3:W1 Current balance of DC plan #3	Cont

2	S2DCBAL3	S2DCBAL3:W2 Current balance of DC plan #3	Cont
3	S3DCBAL3	S3DCBAL3:W3 Current balance of DC plan #3	Cont
4	S4DCBAL3	S4DCBAL3:W4 Current balance of DC plan #3	Cont
5	S5DCBAL3	S5DCBAL3:W5 Current balance of DC plan #3	Cont
6	S6DCBAL3	S6DCBAL3:W6 Current balance of DC plan #3	Cont
7	S7DCBAL3	S7DCBAL3:W7 Current balance of DC plan #3	Cont
8	S8DCBAL3	S8DCBAL3:W8 Current balance of DC plan #3	Cont
9	S9DCBAL3	S9DCBAL3:W9 Current balance of DC plan #3	Cont
10	S10DCBAL3	S10DCBAL3:W10 Current balance of DC plan #3	Cont
11	S11DCBAL3	S11DCBAL3:W11 Current balance of DC plan #3	Cont
12	S12DCBAL3	S12DCBAL3:W12 Current balance of DC plan #3	Cont
5	R5DCBAL4	R5DCBAL4:W5 Current balance of DC plan #4	Cont
6	R6DCBAL4	R6DCBAL4:W6 Current balance of DC plan #4	Cont
7	R7DCBAL4	R7DCBAL4:W7 Current balance of DC plan #4	Cont
8	R8DCBAL4	R8DCBAL4:W8 Current balance of DC plan #4	Cont
9	R9DCBAL4	R9DCBAL4:W9 Current balance of DC plan #4	Cont
10	R10DCBAL4	R10DCBAL4:W10 Current balance of DC plan #4	Cont
11	R11DCBAL4	R11DCBAL4:W11 Current balance of DC plan #4	Cont
12	R12DCBAL4	R12DCBAL4:W12 Current balance of DC plan #4	Cont
5	S5DCBAL4	S5DCBAL4:W5 Current balance of DC plan #4	Cont
6	S6DCBAL4	S6DCBAL4:W6 Current balance of DC plan #4	Cont
7	S7DCBAL4	S7DCBAL4:W7 Current balance of DC plan #4	Cont
8	S8DCBAL4	S8DCBAL4:W8 Current balance of DC plan #4	Cont
9	S9DCBAL4	S9DCBAL4:W9 Current balance of DC plan #4	Cont
10	S10DCBAL4	S10DCBAL4:W10 Current balance of DC plan #4	Cont
11	S11DCBAL4	S11DCBAL4:W11 Current balance of DC plan #4	Cont
12	S12DCBAL4	S12DCBAL4:W12 Current balance of DC plan #4	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DCBAL1	1102	39879.80	96049.58	0.0	1200000.0
R2DCBAL1	1096	73666.88	529431.06	0.0	9999994.0
R3DCBAL1	1165	60151.06	219574.95	0.0	6000000.0
R4DCBAL1	1428	82519.33	364845.85	0.0	12000000.0
R5DCBAL1	1203	92178.85	213485.54	0.0	2220000.0
R6DCBAL1	893	102251.23	393661.46	0.0	10000000.0
R7DCBAL1	1364	86394.98	193456.02	0.0	3000000.0
R8DCBAL1	1118	113716.54	495969.73	0.0	15000000.0
R9DCBAL1	1032	122755.09	262342.50	0.0	5000000.0
R10DCBAL1	1554	108704.60	199109.68	0.0	2500000.0
R11DCBAL1	1629	115601.31	410335.16	0.0	10000000.0
R12DCBAL1	1468	128304.35	340534.49	0.0	9000000.0
S1DCBAL1	879	40708.85	94694.96	0.0	1200000.0
S2DCBAL1	868	83023.49	593309.20	0.0	9999994.0
S3DCBAL1	916	63150.13	240821.03	0.0	6000000.0
S4DCBAL1	1137	90819.84	405003.18	0.0	12000000.0
S5DCBAL1	920	101491.81	231700.36	0.0	2220000.0
S6DCBAL1	688	111751.89	427687.39	0.0	10000000.0
S7DCBAL1	1048	92434.64	204426.85	0.0	3000000.0
S8DCBAL1	854	127425.23	561420.78	0.0	15000000.0
S9DCBAL1	796	135113.33	287579.76	0.0	5000000.0
S10DCBAL1	1132	117244.86	214237.81	0.0	2500000.0
S11DCBAL1	1202	118269.63	370346.52	0.0	10000000.0
S12DCBAL1	1084	136574.58	374697.44	0.0	9000000.0
R1DCBAL2	773	36920.65	69031.82	0.0	1250000.0



R2DCBAL2	357	43989.55	69614.79	0.0	500000.0
R3DCBAL2	335	63679.33	335073.21	0.0	6000000.0
R4DCBAL2	469	66757.22	126351.17	0.0	1200000.0
R5DCBAL2	333	64771.63	131017.23	0.0	1300000.0
R6DCBAL2	235	87367.75	152287.33	0.0	1600000.0
R7DCBAL2	479	69110.83	107791.86	0.0	900000.0
R8DCBAL2	276	128644.58	673815.53	0.0	11000000.0
R9DCBAL2	340	104880.76	170804.06	0.0	1400000.0
R10DCBAL2	579	101846.42	176314.64	0.0	1976000.0
R11DCBAL2	415	117421.38	160025.37	100.0	1200000.0
R12DCBAL2	377	161304.85	235889.27	0.0	1900000.0
S1DCBAL2	628	37477.02	71721.80	0.0	1250000.0
S2DCBAL2	286	46462.12	71038.95	0.0	500000.0
S3DCBAL2	264	69173.39	375428.71	0.0	6000000.0
S4DCBAL2	378	66611.60	120857.76	0.0	1200000.0
S5DCBAL2	250	65995.42	127431.15	0.0	1300000.0
S6DCBAL2	184	99026.38	167311.73	0.0	1600000.0
S7DCBAL2	368	71529.84	104650.93	0.0	900000.0
S8DCBAL2	211	144209.64	764504.68	0.0	11000000.0
S9DCBAL2	262	113253.89	184374.69	0.0	1400000.0
S10DCBAL2	426	109619.16	192506.26	0.0	1976000.0
S11DCBAL2	301	131313.27	173632.68	100.0	1200000.0
S12DCBAL2	279	185605.55	257540.82	0.0	1900000.0
R1DCBAL3	109	42713.68	91826.49	180.0	600000.0
R2DCBAL3	51	10913.94	24315.81	0.0	100000.0
R3DCBAL3	45	194217.80	912392.44	0.0	6000000.0
R4DCBAL3	53	41771.92	61065.59	0.0	275000.0
R5DCBAL3	30	84635.00	207021.93	0.0	1000000.0
R6DCBAL3	18	54041.11	97113.64	1000.0	400000.0
R7DCBAL3	65	44109.85	55690.25	0.0	300000.0
R8DCBAL3	26	73984.62	102488.94	0.0	425000.0
R9DCBAL3	38	69018.26	107952.85	500.0	575000.0
R10DCBAL3	78	82667.79	219552.22	0.0	1796000.0
R11DCBAL3	66	146038.24	279371.11	300.0	2000000.0
R12DCBAL3	61	114537.33	189366.76	149.0	1300000.0
S1DCBAL3	87	44443.57	94282.06	180.0	600000.0
S2DCBAL3	44	11275.25	25998.09	0.0	100000.0
S3DCBAL3	41	209970.76	955347.77	0.0	6000000.0
S4DCBAL3	45	45849.27	65070.66	0.0	275000.0
S5DCBAL3	18	126075.00	260772.20	0.0	1000000.0
S6DCBAL3	15	62182.67	104905.98	1500.0	400000.0
S7DCBAL3	51	45773.33	52890.99	0.0	300000.0
S8DCBAL3	21	80361.90	112064.19	0.0	425000.0
S9DCBAL3	31	77709.48	117576.48	500.0	575000.0
S10DCBAL3	60	98380.73	246590.42	0.0	1796000.0
S11DCBAL3	51	148988.24	306532.60	300.0	2000000.0
S12DCBAL3	44	125313.07	214409.36	149.0	1300000.0
R5DCBAL4	7	87428.57	144328.61	1000.0	400000.0
R6DCBAL4	1	400000.00		400000.0	400000.0
R7DCBAL4	16	44371.75	40222.50	5.0	130000.0
R8DCBAL4	1	100000.00		100000.0	100000.0
R9DCBAL4	4	301250.25	475050.22	1.0	1000000.0
R10DCBAL4	7	404219.57	661244.24	3500.0	1796000.0
R11DCBAL4	8	96523.00	160764.90	4000.0	450000.0
R12DCBAL4	6	69833.33	67600.05	4000.0	185000.0

S5DCBAL4	6	100333.33	153616.48	1000.0	400000.0
S6DCBAL4	1	400000.00		400000.0	400000.0
S7DCBAL4	14	46567.71	42503.98	5.0	130000.0
S8DCBAL4	1	100000.00		100000.0	100000.0
S9DCBAL4	3	401666.67	527264.96	5000.0	1000000.0
S10DCBAL4	5	563807.40	737862.24	41000.0	1796000.0
S11DCBAL4	6	89864.00	176809.92	4000.0	450000.0
S12DCBAL4	5	46800.00	41631.72	4000.0	102000.0

## How Constructed

RwDCBAL1, RwDCBAL2, RwDCBAL3 and RwDCBAL4 indicate the amount in nominal dollars that the Respondent currently has in a defined contribution pension plan account from her/his current, primary employer. Before Wave 5, account balances may be reported for up to 3 plans. From Wave 5 through Wave 10, account balances may be reported for up to 4 plans. From Wave 11 forward, Respondents may report information on up to 10 plans, but we limit the RAND HRS Longitudinal File to the first four active plans as they appear in the data, to align with previous waves. SwDCBAL1, SwDCBAL2, SwDCBAL3 and SwDCBAL4 provide the information for the Respondent's spouse or partner.

If the Respondent is included in a pension in her/his current job, then s/he is asked for the type of plan. In Waves 1-8 and Wave 11 forward, account balances are reported for Respondents who indicate a plan type of Type B or both. In Waves 9-10, dollar amounts are calculated for Respondents who either a) consistently identify a defined contribution plan through the plan type (i.e., Type B or both) and the detailed plan name (e.g., 401K, 403b, etc.) or b) indicate a plan type of Type B or both and have a high level of confidence in their plan type selection. In all Waves, Respondents who indicate a plan type of Type A (defined benefit), or who do not know or refuse to disclose the plan type are set to .B.

If the account balance is missing, the variables are recoded. RwDCBALx is set to .Q for defined contribution plans if the questions were not asked of any Respondent in a given wave (e.g., Respondents to Wave 2A). If the Respondent does not have a particular pension plan, the variables are set to .S (e.g., if the Respondent has one pension, RwDCBAL2, RwDCBAL3, and from Wave 5 on, RwDCBAL4 equal .S). RwDCBALx is also set to .S if the Respondent does not have a pension from the current job, or did not provide a number of pensions in waves prior to 11. RwDCBALx is set .W if the Respondent is not working.

Please note that the high maximum values come directly from HRS raw variables. For example, R8DCBAL1=15,000,000 was reported in KJ307A.

## Cross Wave Differences in Original HRS Data

In Waves 1-8 and 11, account balances of a defined contribution plan are calculated for Respondents who indicate a plan type equal to Type B or Both. In Waves 9 and 10, DC plans are defined in one of two ways: a) plans that are consistently identified as DC through the plan type (i.e., Type B or both) and the detailed plan name (e.g., 401K, 403b, etc.) or b) plans with a type of Type B or Both where Respondents have a high level of confidence in their plan type selection.

In Waves 1-10, the wording of the question varies depending on the plan type indicated. Respondents who indicate a Type B plan are asked, "How much money is in your account at present?", whereas Respondents who indicate a plan type of both are asked, "For that part of your plan where money is accumulated in an account, how much is in the account at present?" In Wave 11, for all Respondents, the wording of the question is, "How much is in the [Insert Plan Name] account now?"

Questions are not asked in Wave 2A. All variables are set to .Q.

In Wave 2H, eight separate questions are asked, depending on whether the Respondent is employed by a firm or self-employed, the plan type is Type B or both, and whether the plan is newly reported or the rules have changed, or if it has been previously reported and there have been no rules changes.

In Wave 3A, questions are asked separately for those employed by a firm and the self-employed. Respondents who work at a firm are asked to report on account balances for up to three plans. The self-employed are asked to report on only one plan.

In Waves 3H, 4-6, and 8, Respondents are asked one of four account balance questions depending on plan type and whether the plan is newly or previously reported.

In Waves 9 and 10, only one account balance question is asked of all Respondents, but the wording of the question varies based on plan type, as described above.

Beginning in Wave 5, a fourth plan is added if the Respondent reports having at least four plans.

Prior to Wave 11, the Respondent was asked to list her/his pensions in order of importance. From Wave 11 forward, due to the questionnaire change, the Respondent answers questions about all pension plans, with no regard to importance. We report account balances for up to the first four active plans in the data to remain consistent with earlier waves.

## HRS Variables Used

### HRS 1992:

V2909	F39:P1-TYPE OF PLAN
V2910	F40:P1-MNY IN ACCT NOW:\$
V2940	F58:TB/P1:\$ IN ACCT
V3009	F39:P2-TYPE OF PLAN
V3010	F40:P2-MNY IN ACCT NOW:\$
V3040	F58:TB/P2:\$ IN ACCT
V3109	F39:P3-TYPE OF PLAN
V3110	F40:P3-MNY IN ACCT NOW:\$
V3140	F58:TB/P3:\$ IN ACCT

### HRS 1994:

W3712	1. FA65.TYPE OF PENSION
W3713	1. FA66.AMOUNT IN ACCOUN
W3723	1. FA70.AMOUNT IN ACCOUN
W3724	2. FA65.TYPE OF PENSION
W3735	2. FA70.AMOUNT IN ACCOUN
W3736	3. FA65.TYPE OF PENSION
W3747	3. FA70.AMOUNT IN PRESEN
W3757	1. FA74.AMOUNT IN ACCOUN
W3797	1. FA92.AMOUNT IN ACCOUN
W3809	2. FA74.AMOUNT IN ACCOUN
W3849	2. FA92.AMOUNT IN ACCOUN
W3861	3. FA74.AMOUNT IN ACCOUN
W3901	3. FA92.AMOUNT IN ACCOUN
W4378	1. FB29.TYPE OF RETIREME
W4379	1. FB30.AMOUNT IN ACCOUN
W4389	1. FB34.AMOUNT IN ACCOUN
W4390	2. FB29.TYPE OF RETIREME
W4391	2. FB30.AMOUNT IN ACCOUN
W4401	2. FB34.AMOUNT IN ACCOUN

W4402	3. FB29.TYPE OF RETIREME
W4403	3. FB30.AMOUNT IN PENSIO
W4413	3. FB34.AMOUNT IN ACCOUN
W4416	1. FB38.AMOUNT IN ACCOUN
W4456	1. FB56.AMOUNT IN ACCOUN
W4468	2. FB38.AMOUNT IN ACCOUN
W4508	2. FB56.AMOUNT IN ACCOUN
W4520	3. FB38.AMOUNT IN ACCOUN
W4560	3. FB56.AMOUNT IN ACCOUN
AHEAD 1995:	
D2969_1	GA73. TYPE PENSION
D2969_2	GA73. TYPE PENSION
D2969_3	GA73. TYPE PENSION
D2970_1	GA74. AMOUNT PENSION ACCOUNT
D2970_2	GA74. AMOUNT PENSION ACCOUNT
D2970_3	GA74. AMOUNT PENSION ACCOUNT
D3037_1	GA92. AMOUNT DC ACCOUNT
D3037_2	GA92. AMOUNT DC ACCOUNT
D3037_3	GA92. AMOUNT DC ACCOUNT
D3330_1	GB37. TYPE PENSION
D3331_1	GB38. AMOUNT PENSION ACCOUNT
D3401_1	GB56. AMOUNT DC ACCOUNT
HRS 1996:	
E2840_1	G69.TYPE OF PENSION
E2840_2	G69.TYPE OF PENSION
E2840_3	G69.TYPE OF PENSION
E2841_1	G70.AMOUNT IN ACCOUNT PRESENTLY
E2841_2	G70.AMOUNT IN ACCOUNT PRESENTLY
E2841_3	G70.AMOUNT IN ACCOUNT PRESENTLY
E2856_1	G74.AMOUNT IN ACCOUNT PRESENTLY
E2856_2	G74.AMOUNT IN ACCOUNT PRESENTLY
E2856_3	G74.AMOUNT IN ACCOUNT PRESENTLY
E2875_1	G77.TYPE OF PENSION
E2875_2	G77.TYPE OF PENSION
E2875_3	G77.TYPE OF PENSION
E2876_1	G78.AMOUNT IN ACCOUNT PRESENTLY
E2876_2	G78.AMOUNT IN ACCOUNT PRESENTLY
E2876_3	G78.AMOUNT IN ACCOUNT PRESENTLY
E2942_1	G96.AMOUNT IN ACCOUNT PRESENTLY
E2942_2	G96.AMOUNT IN ACCOUNT PRESENTLY
E2942_3	G96.AMOUNT IN ACCOUNT PRESENTLY
HRS 1998:	
F3364_1	G69.TYPE OF PENSION
F3364_2	G69.TYPE OF PENSION
F3364_3	G69.TYPE OF PENSION
F3365_1	G70.AMOUNT IN ACCOUNT PRESENTLY
F3365_2	G70.AMOUNT IN ACCOUNT PRESENTLY
F3365_3	G70.AMOUNT IN ACCOUNT PRESENTLY
F3383_1	G74.AMOUNT IN ACCOUNT PRESENTLY
F3383_2	G74.AMOUNT IN ACCOUNT PRESENTLY
F3383_3	G74.AMOUNT IN ACCOUNT PRESENTLY
F3403_1	G77.TYPE OF PENSION
F3403_2	G77.TYPE OF PENSION
F3403_3	G77.TYPE OF PENSION
F3404_1	G78.AMOUNT IN ACCOUNT PRESENTLY
F3404_2	G78.AMOUNT IN ACCOUNT PRESENTLY
F3404_3	G78.AMOUNT IN ACCOUNT PRESENTLY
F3470_1	G96.AMOUNT IN ACCOUNT PRESENTLY
F3470_2	G96.AMOUNT IN ACCOUNT PRESENTLY

F3470_3	G96.AMOUNT IN ACCOUNT PRESENTLY
HRS 2000:	
G3624_1	G69.TYPE OF PENSION
G3624_2	G69.TYPE OF PENSION
G3624_3	G69.TYPE OF PENSION
G3624_4	G69.TYPE OF PENSION
G3625_1	G70.AMOUNT IN ACCOUNT PRESENTLY
G3625_2	G70.AMOUNT IN ACCOUNT PRESENTLY
G3625_3	G70.AMOUNT IN ACCOUNT PRESENTLY
G3625_4	G70.AMOUNT IN ACCOUNT PRESENTLY
G3643_1	G74.AMOUNT IN ACCOUNT PRESENTLY
G3643_2	G74.AMOUNT IN ACCOUNT PRESENTLY
G3643_3	G74.AMOUNT IN ACCOUNT PRESENTLY
G3643_4	G74.AMOUNT IN ACCOUNT PRESENTLY
G3683_1	G77.TYPE OF PENSION
G3683_2	G77.TYPE OF PENSION
G3683_3	G77.TYPE OF PENSION
G3683_4	G77.TYPE OF PENSION
G3684_1	G78.AMOUNT IN ACCOUNT PRESENTLY
G3684_2	G78.AMOUNT IN ACCOUNT PRESENTLY
G3684_3	G78.AMOUNT IN ACCOUNT PRESENTLY
G3684_4	G78.AMOUNT IN ACCOUNT PRESENTLY
G3755_1	G96.AMOUNT IN ACCOUNT PRESENTLY
G3755_2	G96.AMOUNT IN ACCOUNT PRESENTLY
G3755_3	G96.AMOUNT IN ACCOUNT PRESENTLY
G3755_4	G96.AMOUNT IN ACCOUNT PRESENTLY
HRS 2002:	
HJ272_1	TYPE OF PENSION- 1
HJ272_2	TYPE OF PENSION- 2
HJ272_3	TYPE OF PENSION- 3
HJ272_4	TYPE OF PENSION- 4
HJ273_1	AMT IN PENSION ACCOUNT-BOTH A/B-1
HJ273_2	AMT IN PENSION ACCOUNT-BOTH A/B-2
HJ273_3	AMT IN PENSION ACCOUNT-BOTH A/B-3
HJ273_4	AMT IN PENSION ACCOUNT-BOTH A/B-4
HJ307_1	AMT IN PENSION ACCOUNT- TYPE B ONLY-1
HJ307_2	AMT IN PENSION ACCOUNT- TYPE B ONLY-2
HJ307_3	AMT IN PENSION ACCOUNT- TYPE B ONLY-3
HJ307_4	AMT IN PENSION ACCOUNT- TYPE B ONLY-4
HJ338_1	PENSION PLAN TYPE- 1
HJ338_2	PENSION PLAN TYPE- 2
HJ338_3	PENSION PLAN TYPE- 3
HJ338_4	PENSION PLAN TYPE- 4
HJ339_1	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-1
HJ339_2	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-2
HJ339_3	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-3
HJ339_4	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-4
HJ413_1	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-1
HJ413_2	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-2
HJ413_3	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-3
HJ413_4	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-4
HRS 2004:	
JJ338A	PENSION PLAN TYPE- 1
JJ338B	PENSION PLAN TYPE- 2
JJ338C	PENSION PLAN TYPE- 3
JJ338D	PENSION PLAN TYPE- 4
JJ339A	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-1
JJ339B	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-2
JJ339C	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-3

JJ339D	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-4
JJ413A	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-1
JJ413B	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-2
JJ413C	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-3
JJ413D	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-4
HRS 2006:	
KJ272A	TYPE OF PENSION- 1 -1
KJ272B	TYPE OF PENSION- 1 -2
KJ272C	TYPE OF PENSION- 1 -3
KJ272D	TYPE OF PENSION- 1 -4
KJ273A	AMOUNT IN PENSION ACCOUNT-TYPE B PART -1
KJ273B	AMOUNT IN PENSION ACCOUNT-TYPE B PART -2
KJ273C	AMOUNT IN PENSION ACCOUNT-TYPE B PART -3
KJ273D	AMOUNT IN PENSION ACCOUNT-TYPE B PART -4
KJ307A	AMT IN PENSION ACCOUNT- TYPE B ONLY -1
KJ307B	AMT IN PENSION ACCOUNT- TYPE B ONLY -2
KJ307C	AMT IN PENSION ACCOUNT- TYPE B ONLY -3
KJ307D	AMT IN PENSION ACCOUNT- TYPE B ONLY -4
KJ338A	PENSION PLAN TYPE- 1
KJ338B	PENSION PLAN TYPE- 2
KJ338C	PENSION PLAN TYPE- 3
KJ338D	PENSION PLAN TYPE- 4
KJ339A	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-1
KJ339B	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-2
KJ339C	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-3
KJ339D	AMOUNT IN ACCOUNT PRESENTLY-PLAN A/B-4
KJ413A	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-1
KJ413B	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-2
KJ413C	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-3
KJ413D	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-4
HRS 2008:	
LJ338_1	PENSION PLAN TYPE- 1
LJ338_2	PENSION PLAN TYPE- 2
LJ338_3	PENSION PLAN TYPE- 3
LJ338_4	PENSION PLAN TYPE- 4
LJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
LJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
LJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
LJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
LJ413_1	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-1
LJ413_2	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-2
LJ413_3	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-3
LJ413_4	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-4
LJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
LJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
LJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
LJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
HRS 2010:	
MJ338_1	PENSION PLAN TYPE- 1
MJ338_2	PENSION PLAN TYPE- 2
MJ338_3	PENSION PLAN TYPE- 3
MJ338_4	PENSION PLAN TYPE- 4
MJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
MJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
MJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
MJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
MJ413_1	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-1
MJ413_2	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-2
MJ413_3	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-3

MJ413_4	AMOUNT IN ACCOUNT PRESENTLY-PLAN B-4
MJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
MJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
MJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
MJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
HRS 2012:	
NJ2338_1	PENSION PLAN TYPE-DB OR DC -1_1
NJ2338_10	PENSION PLAN TYPE-DB OR DC -1_10
NJ2338_2	PENSION PLAN TYPE-DB OR DC -1_2
NJ2338_3	PENSION PLAN TYPE-DB OR DC -1_3
NJ2338_4	PENSION PLAN TYPE-DB OR DC -1_4
NJ2338_5	PENSION PLAN TYPE-DB OR DC -1_5
NJ2338_6	PENSION PLAN TYPE-DB OR DC -1_6
NJ2338_7	PENSION PLAN TYPE-DB OR DC -1_7
NJ2338_8	PENSION PLAN TYPE-DB OR DC -1_8
NJ2338_9	PENSION PLAN TYPE-DB OR DC -1_9
NJ2W009_1	AMOUNT IN PENSION NOW -1_1
NJ2W009_10	AMOUNT IN PENSION NOW -1_10
NJ2W009_2	AMOUNT IN PENSION NOW -1_2
NJ2W009_3	AMOUNT IN PENSION NOW -1_3
NJ2W009_4	AMOUNT IN PENSION NOW -1_4
NJ2W009_5	AMOUNT IN PENSION NOW -1_5
NJ2W009_6	AMOUNT IN PENSION NOW -1_6
NJ2W009_7	AMOUNT IN PENSION NOW -1_7
NJ2W009_8	AMOUNT IN PENSION NOW -1_8
NJ2W009_9	AMOUNT IN PENSION NOW -1_9
HRS 2014:	
OJ2338_1	PENSION PLAN TYPE-DB OR DC_1
OJ2338_10	PENSION PLAN TYPE-DB OR DC_10
OJ2338_2	PENSION PLAN TYPE-DB OR DC_2
OJ2338_3	PENSION PLAN TYPE-DB OR DC_3
OJ2338_4	PENSION PLAN TYPE-DB OR DC_4
OJ2338_5	PENSION PLAN TYPE-DB OR DC_5
OJ2338_6	PENSION PLAN TYPE-DB OR DC_6
OJ2338_7	PENSION PLAN TYPE-DB OR DC_7
OJ2338_8	PENSION PLAN TYPE-DB OR DC_8
OJ2338_9	PENSION PLAN TYPE-DB OR DC_9
OJ2W009_1	AMOUNT IN PENSION NOW_1
OJ2W009_10	AMOUNT IN PENSION NOW_10
OJ2W009_2	AMOUNT IN PENSION NOW_2
OJ2W009_3	AMOUNT IN PENSION NOW_3
OJ2W009_4	AMOUNT IN PENSION NOW_4
OJ2W009_5	AMOUNT IN PENSION NOW_5
OJ2W009_6	AMOUNT IN PENSION NOW_6
OJ2W009_7	AMOUNT IN PENSION NOW_7
OJ2W009_8	AMOUNT IN PENSION NOW_8
OJ2W009_9	AMOUNT IN PENSION NOW_9
OJ2Z140_1	PREV WAVE OLD PENSION TYPE_1
OJ2Z140_10	PREV WAVE OLD PENSION TYPE_10
OJ2Z140_2	PREV WAVE OLD PENSION TYPE_2
OJ2Z140_3	PREV WAVE OLD PENSION TYPE_3
OJ2Z140_4	PREV WAVE OLD PENSION TYPE_4
OJ2Z140_5	PREV WAVE OLD PENSION TYPE_5
OJ2Z140_6	PREV WAVE OLD PENSION TYPE_6
OJ2Z140_7	PREV WAVE OLD PENSION TYPE_7
OJ2Z140_8	PREV WAVE OLD PENSION TYPE_8
OJ2Z140_9	PREV WAVE OLD PENSION TYPE_9

<b>Employer's annual contribution to Respondent's DC plan</b>
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Wave	Variable	Label	Type
1	R1DCBENE1	R1DCBENE1:W1 Employer contribution to DC plan #1	Cont
2	R2DCBENE1	R2DCBENE1:W2 Employer contribution to DC plan #1	Cont
3	R3DCBENE1	R3DCBENE1:W3 Employer contribution to DC plan #1	Cont
4	R4DCBENE1	R4DCBENE1:W4 Employer contribution to DC plan #1	Cont
5	R5DCBENE1	R5DCBENE1:W5 Employer contribution to DC plan #1	Cont
6	R6DCBENE1	R6DCBENE1:W6 Employer contribution to DC plan #1	Cont
7	R7DCBENE1	R7DCBENE1:W7 Employer contribution to DC plan #1	Cont
8	R8DCBENE1	R8DCBENE1:W8 Employer contribution to DC plan #1	Cont
9	R9DCBENE1	R9DCBENE1:W9 Employer contribution to DC plan #1	Cont
10	R10DCBENE1	R10DCBENE1:W10 Employer contribution to DC plan #1	Cont
11	R11DCBENE1	R11DCBENE1:W11 Employer contribution to DC plan #1	Cont
12	R12DCBENE1	R12DCBENE1:W12 Employer contribution to DC plan #1	Cont
1	S1DCBENE1	S1DCBENE1:W1 Employer contribution to DC plan #1	Cont
2	S2DCBENE1	S2DCBENE1:W2 Employer contribution to DC plan #1	Cont
3	S3DCBENE1	S3DCBENE1:W3 Employer contribution to DC plan #1	Cont
4	S4DCBENE1	S4DCBENE1:W4 Employer contribution to DC plan #1	Cont
5	S5DCBENE1	S5DCBENE1:W5 Employer contribution to DC plan #1	Cont
6	S6DCBENE1	S6DCBENE1:W6 Employer contribution to DC plan #1	Cont
7	S7DCBENE1	S7DCBENE1:W7 Employer contribution to DC plan #1	Cont
8	S8DCBENE1	S8DCBENE1:W8 Employer contribution to DC plan #1	Cont
9	S9DCBENE1	S9DCBENE1:W9 Employer contribution to DC plan #1	Cont
10	S10DCBENE1	S10DCBENE1:W10 Employer contribution to DC plan #1	Cont
11	S11DCBENE1	S11DCBENE1:W11 Employer contribution to DC plan #1	Cont
12	S12DCBENE1	S12DCBENE1:W12 Employer contribution to DC plan #1	Cont
1	R1DCBENE2	R1DCBENE2:W1 Employer contribution to DC plan #2	Cont
2	R2DCBENE2	R2DCBENE2:W2 Employer contribution to DC plan #2	Cont
3	R3DCBENE2	R3DCBENE2:W3 Employer contribution to DC plan #2	Cont
4	R4DCBENE2	R4DCBENE2:W4 Employer contribution to DC plan #2	Cont
5	R5DCBENE2	R5DCBENE2:W5 Employer contribution to DC plan #2	Cont
6	R6DCBENE2	R6DCBENE2:W6 Employer contribution to DC plan #2	Cont
7	R7DCBENE2	R7DCBENE2:W7 Employer contribution to DC plan #2	Cont
8	R8DCBENE2	R8DCBENE2:W8 Employer contribution to DC plan #2	Cont
9	R9DCBENE2	R9DCBENE2:W9 Employer contribution to DC plan #2	Cont
10	R10DCBENE2	R10DCBENE2:W10 Employer contribution to DC plan #2	Cont
11	R11DCBENE2	R11DCBENE2:W11 Employer contribution to DC plan #2	Cont
12	R12DCBENE2	R12DCBENE2:W12 Employer contribution to DC plan #2	Cont
1	S1DCBENE2	S1DCBENE2:W1 Employer contribution to DC plan #2	Cont
2	S2DCBENE2	S2DCBENE2:W2 Employer contribution to DC plan #2	Cont
3	S3DCBENE2	S3DCBENE2:W3 Employer contribution to DC plan #2	Cont
4	S4DCBENE2	S4DCBENE2:W4 Employer contribution to DC plan #2	Cont
5	S5DCBENE2	S5DCBENE2:W5 Employer contribution to DC plan #2	Cont
6	S6DCBENE2	S6DCBENE2:W6 Employer contribution to DC plan #2	Cont
7	S7DCBENE2	S7DCBENE2:W7 Employer contribution to DC plan #2	Cont
8	S8DCBENE2	S8DCBENE2:W8 Employer contribution to DC plan #2	Cont
9	S9DCBENE2	S9DCBENE2:W9 Employer contribution to DC plan #2	Cont
10	S10DCBENE2	S10DCBENE2:W10 Employer contribution to DC plan #2	Cont
11	S11DCBENE2	S11DCBENE2:W11 Employer contribution to DC plan #2	Cont
12	S12DCBENE2	S12DCBENE2:W12 Employer contribution to DC plan #2	Cont
1	R1DCBENE3	R1DCBENE3:W1 Employer contribution to DC plan #3	Cont
2	R2DCBENE3	R2DCBENE3:W2 Employer contribution to DC plan #3	Cont
3	R3DCBENE3	R3DCBENE3:W3 Employer contribution to DC plan #3	Cont
4	R4DCBENE3	R4DCBENE3:W4 Employer contribution to DC plan #3	Cont
5	R5DCBENE3	R5DCBENE3:W5 Employer contribution to DC plan #3	Cont
6	R6DCBENE3	R6DCBENE3:W6 Employer contribution to DC plan #3	Cont
7	R7DCBENE3	R7DCBENE3:W7 Employer contribution to DC plan #3	Cont
8	R8DCBENE3	R8DCBENE3:W8 Employer contribution to DC plan #3	Cont
9	R9DCBENE3	R9DCBENE3:W9 Employer contribution to DC plan #3	Cont
10	R10DCBENE3	R10DCBENE3:W10 Employer contribution to DC plan #3	Cont
11	R11DCBENE3	R11DCBENE3:W11 Employer contribution to DC plan #3	Cont
12	R12DCBENE3	R12DCBENE3:W12 Employer contribution to DC plan #3	Cont
1	S1DCBENE3	S1DCBENE3:W1 Employer contribution to DC plan #3	Cont



2	S2DCBENE3	S2DCBENE3:W2 Employer contribution to DC plan #3	Cont
3	S3DCBENE3	S3DCBENE3:W3 Employer contribution to DC plan #3	Cont
4	S4DCBENE3	S4DCBENE3:W4 Employer contribution to DC plan #3	Cont
5	S5DCBENE3	S5DCBENE3:W5 Employer contribution to DC plan #3	Cont
6	S6DCBENE3	S6DCBENE3:W6 Employer contribution to DC plan #3	Cont
7	S7DCBENE3	S7DCBENE3:W7 Employer contribution to DC plan #3	Cont
8	S8DCBENE3	S8DCBENE3:W8 Employer contribution to DC plan #3	Cont
9	S9DCBENE3	S9DCBENE3:W9 Employer contribution to DC plan #3	Cont
10	S10DCBENE3	S10DCBENE3:W10 Employer contribution to DC plan #3	Cont
11	S11DCBENE3	S11DCBENE3:W11 Employer contribution to DC plan #3	Cont
12	S12DCBENE3	S12DCBENE3:W12 Employer contribution to DC plan #3	Cont
5	R5DCBENE4	R5DCBENE4:W5 Employer contribution to DC plan #4	Cont
6	R6DCBENE4	R6DCBENE4:W6 Employer contribution to DC plan #4	Cont
7	R7DCBENE4	R7DCBENE4:W7 Employer contribution to DC plan #4	Cont
8	R8DCBENE4	R8DCBENE4:W8 Employer contribution to DC plan #4	Cont
9	R9DCBENE4	R9DCBENE4:W9 Employer contribution to DC plan #4	Cont
10	R10DCBENE4	R10DCBENE4:W10 Employer contribution to DC plan #4	Cont
11	R11DCBENE4	R11DCBENE4:W11 Employer contribution to DC plan #4	Cont
12	R12DCBENE4	R12DCBENE4:W12 Employer contribution to DC plan #4	Cont
5	S5DCBENE4	S5DCBENE4:W5 Employer contribution to DC plan #4	Cont
6	S6DCBENE4	S6DCBENE4:W6 Employer contribution to DC plan #4	Cont
7	S7DCBENE4	S7DCBENE4:W7 Employer contribution to DC plan #4	Cont
8	S8DCBENE4	S8DCBENE4:W8 Employer contribution to DC plan #4	Cont
9	S9DCBENE4	S9DCBENE4:W9 Employer contribution to DC plan #4	Cont
10	S10DCBENE4	S10DCBENE4:W10 Employer contribution to DC plan #4	Cont
11	S11DCBENE4	S11DCBENE4:W11 Employer contribution to DC plan #4	Cont
12	S12DCBENE4	S12DCBENE4:W12 Employer contribution to DC plan #4	Cont
1	R1DCMODE1	R1DCMODE1:W1 Employer contribution: \$ or % #1	Categ
2	R2DCMODE1	R2DCMODE1:W2 Employer contribution: \$ or % #1	Categ
3	R3DCMODE1	R3DCMODE1:W3 Employer contribution: \$ or % #1	Categ
4	R4DCMODE1	R4DCMODE1:W4 Employer contribution: \$ or % #1	Categ
5	R5DCMODE1	R5DCMODE1:W5 Employer contribution: \$ or % #1	Categ
6	R6DCMODE1	R6DCMODE1:W6 Employer contribution: \$ or % #1	Categ
7	R7DCMODE1	R7DCMODE1:W7 Employer contribution: \$ or % #1	Categ
8	R8DCMODE1	R8DCMODE1:W8 Employer contribution: \$ or % #1	Categ
9	R9DCMODE1	R9DCMODE1:W9 Employer contribution: \$ or % #1	Categ
10	R10DCMODE1	R10DCMODE1:W10 Employer contribution: \$ or % #1	Categ
11	R11DCMODE1	R11DCMODE1:W11 Employer contribution: \$ or % #1	Categ
12	R12DCMODE1	R12DCMODE1:W12 Employer contribution: \$ or % #1	Categ
1	S1DCMODE1	S1DCMODE1:W1 Employer contribution: \$ or % #1	Categ
2	S2DCMODE1	S2DCMODE1:W2 Employer contribution: \$ or % #1	Categ
3	S3DCMODE1	S3DCMODE1:W3 Employer contribution: \$ or % #1	Categ
4	S4DCMODE1	S4DCMODE1:W4 Employer contribution: \$ or % #1	Categ
5	S5DCMODE1	S5DCMODE1:W5 Employer contribution: \$ or % #1	Categ
6	S6DCMODE1	S6DCMODE1:W6 Employer contribution: \$ or % #1	Categ
7	S7DCMODE1	S7DCMODE1:W7 Employer contribution: \$ or % #1	Categ
8	S8DCMODE1	S8DCMODE1:W8 Employer contribution: \$ or % #1	Categ
9	S9DCMODE1	S9DCMODE1:W9 Employer contribution: \$ or % #1	Categ
10	S10DCMODE1	S10DCMODE1:W10 Employer contribution: \$ or % #1	Categ
11	S11DCMODE1	S11DCMODE1:W11 Employer contribution: \$ or % #1	Categ
12	S12DCMODE1	S12DCMODE1:W12 Employer contribution: \$ or % #1	Categ
1	R1DCMODE2	R1DCMODE2:W1 Employer contribution: \$ or % #2	Categ
2	R2DCMODE2	R2DCMODE2:W2 Employer contribution: \$ or % #2	Categ
3	R3DCMODE2	R3DCMODE2:W3 Employer contribution: \$ or % #2	Categ
4	R4DCMODE2	R4DCMODE2:W4 Employer contribution: \$ or % #2	Categ
5	R5DCMODE2	R5DCMODE2:W5 Employer contribution: \$ or % #2	Categ
6	R6DCMODE2	R6DCMODE2:W6 Employer contribution: \$ or % #2	Categ
7	R7DCMODE2	R7DCMODE2:W7 Employer contribution: \$ or % #2	Categ
8	R8DCMODE2	R8DCMODE2:W8 Employer contribution: \$ or % #2	Categ
9	R9DCMODE2	R9DCMODE2:W9 Employer contribution: \$ or % #2	Categ
10	R10DCMODE2	R10DCMODE2:W10 Employer contribution: \$ or % #2	Categ
11	R11DCMODE2	R11DCMODE2:W11 Employer contribution: \$ or % #2	Categ
12	R12DCMODE2	R12DCMODE2:W12 Employer contribution: \$ or % #2	Categ
1	S1DCMODE2	S1DCMODE2:W1 Employer contribution: \$ or % #2	Categ
2	S2DCMODE2	S2DCMODE2:W2 Employer contribution: \$ or % #2	Categ
3	S3DCMODE2	S3DCMODE2:W3 Employer contribution: \$ or % #2	Categ

4	S4DCMODE2	S4DCMODE2:W4 Employer contribution: \$ or % #2	Categ
5	S5DCMODE2	S5DCMODE2:W5 Employer contribution: \$ or % #2	Categ
6	S6DCMODE2	S6DCMODE2:W6 Employer contribution: \$ or % #2	Categ
7	S7DCMODE2	S7DCMODE2:W7 Employer contribution: \$ or % #2	Categ
8	S8DCMODE2	S8DCMODE2:W8 Employer contribution: \$ or % #2	Categ
9	S9DCMODE2	S9DCMODE2:W9 Employer contribution: \$ or % #2	Categ
10	S10DCMODE2	S10DCMODE2:W10 Employer contribution: \$ or % #2	Categ
11	S11DCMODE2	S11DCMODE2:W11 Employer contribution: \$ or % #2	Categ
12	S12DCMODE2	S12DCMODE2:W12 Employer contribution: \$ or % #2	Categ
1	R1DCMODE3	R1DCMODE3:W1 Employer contribution: \$ or % #3	Categ
2	R2DCMODE3	R2DCMODE3:W2 Employer contribution: \$ or % #3	Categ
3	R3DCMODE3	R3DCMODE3:W3 Employer contribution: \$ or % #3	Categ
4	R4DCMODE3	R4DCMODE3:W4 Employer contribution: \$ or % #3	Categ
5	R5DCMODE3	R5DCMODE3:W5 Employer contribution: \$ or % #3	Categ
6	R6DCMODE3	R6DCMODE3:W6 Employer contribution: \$ or % #3	Categ
7	R7DCMODE3	R7DCMODE3:W7 Employer contribution: \$ or % #3	Categ
8	R8DCMODE3	R8DCMODE3:W8 Employer contribution: \$ or % #3	Categ
9	R9DCMODE3	R9DCMODE3:W9 Employer contribution: \$ or % #3	Categ
10	R10DCMODE3	R10DCMODE3:W10 Employer contribution: \$ or % #3	Categ
11	R11DCMODE3	R11DCMODE3:W11 Employer contribution: \$ or % #3	Categ
12	R12DCMODE3	R12DCMODE3:W12 Employer contribution: \$ or % #3	Categ
1	S1DCMODE3	S1DCMODE3:W1 Employer contribution: \$ or % #3	Categ
2	S2DCMODE3	S2DCMODE3:W2 Employer contribution: \$ or % #3	Categ
3	S3DCMODE3	S3DCMODE3:W3 Employer contribution: \$ or % #3	Categ
4	S4DCMODE3	S4DCMODE3:W4 Employer contribution: \$ or % #3	Categ
5	S5DCMODE3	S5DCMODE3:W5 Employer contribution: \$ or % #3	Categ
6	S6DCMODE3	S6DCMODE3:W6 Employer contribution: \$ or % #3	Categ
7	S7DCMODE3	S7DCMODE3:W7 Employer contribution: \$ or % #3	Categ
8	S8DCMODE3	S8DCMODE3:W8 Employer contribution: \$ or % #3	Categ
9	S9DCMODE3	S9DCMODE3:W9 Employer contribution: \$ or % #3	Categ
10	S10DCMODE3	S10DCMODE3:W10 Employer contribution: \$ or % #3	Categ
11	S11DCMODE3	S11DCMODE3:W11 Employer contribution: \$ or % #3	Categ
12	S12DCMODE3	S12DCMODE3:W12 Employer contribution: \$ or % #3	Categ
5	R5DCMODE4	R5DCMODE4:W5 Employer contribution: \$ or % #4	Categ
6	R6DCMODE4	R6DCMODE4:W6 Employer contribution: \$ or % #4	Categ
7	R7DCMODE4	R7DCMODE4:W7 Employer contribution: \$ or % #4	Categ
8	R8DCMODE4	R8DCMODE4:W8 Employer contribution: \$ or % #4	Categ
9	R9DCMODE4	R9DCMODE4:W9 Employer contribution: \$ or % #4	Categ
10	R10DCMODE4	R10DCMODE4:W10 Employer contribution: \$ or % #4	Categ
11	R11DCMODE4	R11DCMODE4:W11 Employer contribution: \$ or % #4	Categ
12	R12DCMODE4	R12DCMODE4:W12 Employer contribution: \$ or % #4	Categ
5	S5DCMODE4	S5DCMODE4:W5 Employer contribution: \$ or % #4	Categ
6	S6DCMODE4	S6DCMODE4:W6 Employer contribution: \$ or % #4	Categ
7	S7DCMODE4	S7DCMODE4:W7 Employer contribution: \$ or % #4	Categ
8	S8DCMODE4	S8DCMODE4:W8 Employer contribution: \$ or % #4	Categ
9	S9DCMODE4	S9DCMODE4:W9 Employer contribution: \$ or % #4	Categ
10	S10DCMODE4	S10DCMODE4:W10 Employer contribution: \$ or % #4	Categ
11	S11DCMODE4	S11DCMODE4:W11 Employer contribution: \$ or % #4	Categ
12	S12DCMODE4	S12DCMODE4:W12 Employer contribution: \$ or % #4	Categ
1	R1DCPCT1	R1DCPCT1:W1 Employer % contribution #1	Cont
2	R2DCPCT1	R2DCPCT1:W2 Employer % contribution #1	Cont
3	R3DCPCT1	R3DCPCT1:W3 Employer % contribution #1	Cont
4	R4DCPCT1	R4DCPCT1:W4 Employer % contribution #1	Cont
5	R5DCPCT1	R5DCPCT1:W5 Employer % contribution #1	Cont
6	R6DCPCT1	R6DCPCT1:W6 Employer % contribution #1	Cont
7	R7DCPCT1	R7DCPCT1:W7 Employer % contribution #1	Cont
8	R8DCPCT1	R8DCPCT1:W8 Employer % contribution #1	Cont
9	R9DCPCT1	R9DCPCT1:W9 Employer % contribution #1	Cont
10	R10DCPCT1	R10DCPCT1:W10 Employer % contribution #1	Cont
11	R11DCPCT1	R11DCPCT1:W11 Employer % contribution #1	Cont
12	R12DCPCT1	R12DCPCT1:W12 Employer % contribution #1	Cont
1	S1DCPCT1	S1DCPCT1:W1 Employer % contribution #1	Cont
2	S2DCPCT1	S2DCPCT1:W2 Employer % contribution #1	Cont
3	S3DCPCT1	S3DCPCT1:W3 Employer % contribution #1	Cont
4	S4DCPCT1	S4DCPCT1:W4 Employer % contribution #1	Cont
5	S5DCPCT1	S5DCPCT1:W5 Employer % contribution #1	Cont

6	S6DCPCT1	S6DCPCT1:W6 Employer % contribution #1	Cont
7	S7DCPCT1	S7DCPCT1:W7 Employer % contribution #1	Cont
8	S8DCPCT1	S8DCPCT1:W8 Employer % contribution #1	Cont
9	S9DCPCT1	S9DCPCT1:W9 Employer % contribution #1	Cont
10	S10DCPCT1	S10DCPCT1:W10 Employer % contribution #1	Cont
11	S11DCPCT1	S11DCPCT1:W11 Employer % contribution #1	Cont
12	S12DCPCT1	S12DCPCT1:W12 Employer % contribution #1	Cont
1	R1DCPCT2	R1DCPCT2:W1 Employer % contribution #2	Cont
2	R2DCPCT2	R2DCPCT2:W2 Employer % contribution #2	Cont
3	R3DCPCT2	R3DCPCT2:W3 Employer % contribution #2	Cont
4	R4DCPCT2	R4DCPCT2:W4 Employer % contribution #2	Cont
5	R5DCPCT2	R5DCPCT2:W5 Employer % contribution #2	Cont
6	R6DCPCT2	R6DCPCT2:W6 Employer % contribution #2	Cont
7	R7DCPCT2	R7DCPCT2:W7 Employer % contribution #2	Cont
8	R8DCPCT2	R8DCPCT2:W8 Employer % contribution #2	Cont
9	R9DCPCT2	R9DCPCT2:W9 Employer % contribution #2	Cont
10	R10DCPCT2	R10DCPCT2:W10 Employer % contribution #2	Cont
11	R11DCPCT2	R11DCPCT2:W11 Employer % contribution #2	Cont
12	R12DCPCT2	R12DCPCT2:W12 Employer % contribution #2	Cont
1	S1DCPCT2	S1DCPCT2:W1 Employer % contribution #2	Cont
2	S2DCPCT2	S2DCPCT2:W2 Employer % contribution #2	Cont
3	S3DCPCT2	S3DCPCT2:W3 Employer % contribution #2	Cont
4	S4DCPCT2	S4DCPCT2:W4 Employer % contribution #2	Cont
5	S5DCPCT2	S5DCPCT2:W5 Employer % contribution #2	Cont
6	S6DCPCT2	S6DCPCT2:W6 Employer % contribution #2	Cont
7	S7DCPCT2	S7DCPCT2:W7 Employer % contribution #2	Cont
8	S8DCPCT2	S8DCPCT2:W8 Employer % contribution #2	Cont
9	S9DCPCT2	S9DCPCT2:W9 Employer % contribution #2	Cont
10	S10DCPCT2	S10DCPCT2:W10 Employer % contribution #2	Cont
11	S11DCPCT2	S11DCPCT2:W11 Employer % contribution #2	Cont
12	S12DCPCT2	S12DCPCT2:W12 Employer % contribution #2	Cont
1	R1DCPCT3	R1DCPCT3:W1 Employer % contribution #3	Cont
2	R2DCPCT3	R2DCPCT3:W2 Employer % contribution #3	Cont
3	R3DCPCT3	R3DCPCT3:W3 Employer % contribution #3	Cont
4	R4DCPCT3	R4DCPCT3:W4 Employer % contribution #3	Cont
5	R5DCPCT3	R5DCPCT3:W5 Employer % contribution #3	Cont
6	R6DCPCT3	R6DCPCT3:W6 Employer % contribution #3	Cont
7	R7DCPCT3	R7DCPCT3:W7 Employer % contribution #3	Cont
8	R8DCPCT3	R8DCPCT3:W8 Employer % contribution #3	Cont
9	R9DCPCT3	R9DCPCT3:W9 Employer % contribution #3	Cont
10	R10DCPCT3	R10DCPCT3:W10 Employer % contribution #3	Cont
11	R11DCPCT3	R11DCPCT3:W11 Employer % contribution #3	Cont
12	R12DCPCT3	R12DCPCT3:W12 Employer % contribution #3	Cont
1	S1DCPCT3	S1DCPCT3:W1 Employer % contribution #3	Cont
2	S2DCPCT3	S2DCPCT3:W2 Employer % contribution #3	Cont
3	S3DCPCT3	S3DCPCT3:W3 Employer % contribution #3	Cont
4	S4DCPCT3	S4DCPCT3:W4 Employer % contribution #3	Cont
5	S5DCPCT3	S5DCPCT3:W5 Employer % contribution #3	Cont
6	S6DCPCT3	S6DCPCT3:W6 Employer % contribution #3	Cont
7	S7DCPCT3	S7DCPCT3:W7 Employer % contribution #3	Cont
8	S8DCPCT3	S8DCPCT3:W8 Employer % contribution #3	Cont
9	S9DCPCT3	S9DCPCT3:W9 Employer % contribution #3	Cont
10	S10DCPCT3	S10DCPCT3:W10 Employer % contribution #3	Cont
11	S11DCPCT3	S11DCPCT3:W11 Employer % contribution #3	Cont
12	S12DCPCT3	S12DCPCT3:W12 Employer % contribution #3	Cont
5	R5DCPCT4	R5DCPCT4:W5 Employer % contribution #4	Cont
6	R6DCPCT4	R6DCPCT4:W6 Employer % contribution #4	Cont
7	R7DCPCT4	R7DCPCT4:W7 Employer % contribution #4	Cont
8	R8DCPCT4	R8DCPCT4:W8 Employer % contribution #4	Cont
9	R9DCPCT4	R9DCPCT4:W9 Employer % contribution #4	Cont
10	R10DCPCT4	R10DCPCT4:W10 Employer % contribution #4	Cont
11	R11DCPCT4	R11DCPCT4:W11 Employer % contribution #4	Cont
12	R12DCPCT4	R12DCPCT4:W12 Employer % contribution #4	Cont
5	S5DCPCT4	S5DCPCT4:W5 Employer % contribution #4	Cont
6	S6DCPCT4	S6DCPCT4:W6 Employer % contribution #4	Cont
7	S7DCPCT4	S7DCPCT4:W7 Employer % contribution #4	Cont

8	S8DCPCT4	S8DCPCT4:W8 Employer % contribution #4	Cont
9	S9DCPCT4	S9DCPCT4:W9 Employer % contribution #4	Cont
10	S10DCPCT4	S10DCPCT4:W10 Employer % contribution #4	Cont
11	S11DCPCT4	S11DCPCT4:W11 Employer % contribution #4	Cont
12	S12DCPCT4	S12DCPCT4:W12 Employer % contribution #4	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DCBENE1	952	3702.90	11655.67	0.0	237500.0
R2DCBENE1	291	8288.91	54857.88	0.0	888000.0
R3DCBENE1	318	2780.85	6201.46	0.0	78000.0
R4DCBENE1	619	4940.08	14673.53	0.0	300000.0
R5DCBENE1	440	3830.45	14991.92	0.0	250000.0
R6DCBENE1	329	4281.54	11365.14	0.0	150800.0
R7DCBENE1	1280	5324.57	18514.36	0.0	447200.0
R8DCBENE1	989	4415.81	15660.32	0.0	350000.0
R9DCBENE1	873	3275.34	5343.02	0.0	72000.0
R10DCBENE1	1319	3660.54	6208.14	0.0	92500.0
R11DCBENE1	1605	2466.32	6336.90	0.0	90000.0
R12DCBENE1	1630	2536.31	10926.48	0.0	400000.0
S1DCBENE1	766	3636.10	11455.29	0.0	237500.0
S2DCBENE1	228	8731.70	61353.57	0.0	888000.0
S3DCBENE1	250	2894.56	6588.22	0.0	78000.0
S4DCBENE1	489	5080.88	15922.44	0.0	300000.0
S5DCBENE1	331	4416.43	17164.28	0.0	250000.0
S6DCBENE1	267	4296.22	11736.64	0.0	150800.0
S7DCBENE1	1003	6079.66	20700.61	0.0	447200.0
S8DCBENE1	758	4844.01	17119.90	0.0	350000.0
S9DCBENE1	688	3355.66	5658.93	0.0	72000.0
S10DCBENE1	957	3662.93	5685.74	0.0	92500.0
S11DCBENE1	1202	2534.14	6637.71	0.0	90000.0
S12DCBENE1	1200	2722.97	12368.99	0.0	400000.0
R1DCBENE2	809	2705.45	8766.71	0.0	149552.0
R2DCBENE2	83	3891.71	11705.81	0.0	80000.0
R3DCBENE2	107	2564.12	6224.84	0.0	34200.0
R4DCBENE2	295	3184.02	10589.94	0.0	98000.0
R5DCBENE2	115	2238.06	4628.12	0.0	31265.0
R6DCBENE2	88	3885.10	9853.56	0.0	70000.0
R7DCBENE2	544	3885.53	12390.40	0.0	135000.0
R8DCBENE2	304	2743.65	6939.66	0.0	60000.0
R9DCBENE2	180	3509.10	6305.20	0.0	72000.0
R10DCBENE2	282	6285.07	23623.74	0.0	300000.0
R11DCBENE2	408	2536.54	5623.17	0.0	81000.0
R12DCBENE2	425	4178.74	24544.66	0.0	488800.0
S1DCBENE2	657	2972.41	9463.67	0.0	149552.0
S2DCBENE2	67	3185.53	8712.14	0.0	50000.0
S3DCBENE2	91	2859.82	6645.72	0.0	34200.0
S4DCBENE2	237	3669.53	11712.91	0.0	98000.0
S5DCBENE2	86	2206.37	4891.38	0.0	31265.0
S6DCBENE2	70	3883.39	10440.86	0.0	70000.0
S7DCBENE2	416	4254.29	13716.80	0.0	135000.0
S8DCBENE2	228	3177.16	7865.13	0.0	60000.0

S9DCBENE2	152	3525.24	6605.70	0.0	72000.0
S10DCBENE2	209	6891.31	27045.62	0.0	300000.0
S11DCBENE2	297	2603.05	5946.07	0.0	81000.0
S12DCBENE2	310	4918.28	28362.21	0.0	488800.0
R1DCBENE3	66	9372.81	27560.17	0.0	200000.0
R2DCBENE3	15	2108.53	4326.39	0.0	14560.0
R3DCBENE3	13	1489.01	1829.71	0.0	5000.0
R4DCBENE3	38	1659.19	3377.98	0.0	16016.0
R5DCBENE3	18	3869.48	5167.15	0.0	16932.0
R6DCBENE3	7	5213.93	9750.90	0.0	27000.0
R7DCBENE3	69	16243.19	92769.07	0.0	743076.9
R8DCBENE3	25	1540.10	3174.88	0.0	15000.0
R9DCBENE3	18	7803.14	17094.97	175.0	75000.0
R10DCBENE3	39	3421.21	4211.79	0.0	17640.0
R11DCBENE3	61	4122.53	11300.42	0.0	75000.0
R12DCBENE3	69	3830.56	13429.99	0.0	104000.0
S1DCBENE3	49	10916.00	31356.80	0.0	200000.0
S2DCBENE3	13	1312.92	2803.77	0.0	7956.0
S3DCBENE3	11	1592.36	1983.18	0.0	5000.0
S4DCBENE3	32	1705.44	3554.23	0.0	16016.0
S5DCBENE3	13	4793.71	5761.16	0.0	16932.0
S6DCBENE3	7	5213.93	9750.90	0.0	27000.0
S7DCBENE3	54	20491.43	104671.51	0.0	743076.9
S8DCBENE3	22	1613.75	3344.67	0.0	15000.0
S9DCBENE3	17	8175.89	17545.53	175.0	75000.0
S10DCBENE3	27	3861.99	4480.57	0.0	17640.0
S11DCBENE3	50	3206.94	7104.68	0.0	38688.0
S12DCBENE3	51	2446.47	6274.84	0.0	40500.0
R5DCBENE4	3	392.31	679.50	0.0	1176.9
R7DCBENE4	12	2272.40	3498.03	0.0	10400.0
R8DCBENE4	1	0.00		0.0	0.0
R9DCBENE4	2	95.16	134.58	0.0	190.3
R10DCBENE4	5	9464.00	8966.50	1040.0	20400.0
R11DCBENE4	6	61615.00	136806.48	0.0	340000.0
R12DCBENE4	6	262.08	641.96	0.0	1572.5
S5DCBENE4	3	392.31	679.50	0.0	1176.9
S7DCBENE4	11	1842.62	3319.89	0.0	10400.0
S8DCBENE4	1	0.00		0.0	0.0
S9DCBENE4	1	0.00		0.0	0.0
S10DCBENE4	4	11570.00	8810.74	2240.0	20400.0
S11DCBENE4	5	73938.00	149184.77	0.0	340000.0
S12DCBENE4	5	0.00	0.00	0.0	0.0
R1DCMODE1	771	1.22	0.42	1.0	2.0
R2DCMODE1	222	1.20	0.40	1.0	2.0
R3DCMODE1	251	1.20	0.40	1.0	2.0
R4DCMODE1	493	1.14	0.35	1.0	2.0
R5DCMODE1	332	1.17	0.38	1.0	2.0
R6DCMODE1	257	1.14	0.35	1.0	2.0
R7DCMODE1	1036	1.14	0.35	1.0	2.0
R8DCMODE1	832	1.14	0.35	1.0	2.0
R9DCMODE1	869	1.45	0.76	1.0	3.0
R10DCMODE1	1313	1.42	0.73	1.0	3.0
R11DCMODE1	1033	1.36	0.69	1.0	3.0
R12DCMODE1	1078	1.41	0.72	1.0	3.0

S1DCMODE1	619	1.21	0.41	1.0	2.0
S2DCMODE1	172	1.21	0.41	1.0	2.0
S3DCMODE1	193	1.19	0.39	1.0	2.0
S4DCMODE1	390	1.14	0.34	1.0	2.0
S5DCMODE1	248	1.19	0.39	1.0	2.0
S6DCMODE1	204	1.14	0.34	1.0	2.0
S7DCMODE1	813	1.15	0.35	1.0	2.0
S8DCMODE1	644	1.14	0.35	1.0	2.0
S9DCMODE1	685	1.45	0.76	1.0	3.0
S10DCMODE1	953	1.39	0.70	1.0	3.0
S11DCMODE1	763	1.35	0.67	1.0	3.0
S12DCMODE1	792	1.39	0.70	1.0	3.0
R1DCMODE2	393	1.18	0.39	1.0	2.0
R2DCMODE2	40	1.30	0.46	1.0	2.0
R3DCMODE2	65	1.28	0.45	1.0	2.0
R4DCMODE2	151	1.20	0.40	1.0	2.0
R5DCMODE2	68	1.25	0.44	1.0	2.0
R6DCMODE2	47	1.23	0.43	1.0	2.0
R7DCMODE2	301	1.19	0.39	1.0	2.0
R8DCMODE2	181	1.20	0.40	1.0	2.0
R9DCMODE2	179	1.49	0.74	1.0	3.0
R10DCMODE2	278	1.42	0.71	1.0	3.0
R11DCMODE2	223	1.40	0.73	1.0	3.0
R12DCMODE2	249	1.35	0.69	1.0	3.0
S1DCMODE2	334	1.16	0.37	1.0	2.0
S2DCMODE2	34	1.29	0.46	1.0	2.0
S3DCMODE2	59	1.29	0.46	1.0	2.0
S4DCMODE2	122	1.20	0.41	1.0	2.0
S5DCMODE2	49	1.20	0.41	1.0	2.0
S6DCMODE2	37	1.27	0.45	1.0	2.0
S7DCMODE2	228	1.19	0.40	1.0	2.0
S8DCMODE2	131	1.18	0.38	1.0	2.0
S9DCMODE2	151	1.49	0.73	1.0	3.0
S10DCMODE2	207	1.38	0.67	1.0	3.0
S11DCMODE2	163	1.39	0.72	1.0	3.0
S12DCMODE2	189	1.33	0.67	1.0	3.0
R1DCMODE3	52	1.17	0.38	1.0	2.0
R2DCMODE3	5	1.20	0.45	1.0	2.0
R3DCMODE3	9	1.22	0.44	1.0	2.0
R4DCMODE3	16	1.31	0.48	1.0	2.0
R5DCMODE3	12	1.25	0.45	1.0	2.0
R6DCMODE3	4	1.00	0.00	1.0	1.0
R7DCMODE3	29	1.28	0.45	1.0	2.0
R8DCMODE3	10	1.40	0.52	1.0	2.0
R9DCMODE3	18	1.61	0.78	1.0	3.0
R10DCMODE3	37	1.51	0.61	1.0	3.0
R11DCMODE3	28	1.43	0.69	1.0	3.0
R12DCMODE3	33	1.48	0.71	1.0	3.0
S1DCMODE3	39	1.21	0.41	1.0	2.0
S2DCMODE3	4	1.25	0.50	1.0	2.0
S3DCMODE3	7	1.14	0.38	1.0	2.0
S4DCMODE3	14	1.36	0.50	1.0	2.0
S5DCMODE3	8	1.25	0.46	1.0	2.0
S6DCMODE3	4	1.00	0.00	1.0	1.0

S7DCMODE3	23	1.30	0.47	1.0	2.0
S8DCMODE3	9	1.44	0.53	1.0	2.0
S9DCMODE3	17	1.53	0.72	1.0	3.0
S10DCMODE3	25	1.60	0.65	1.0	3.0
S11DCMODE3	22	1.55	0.74	1.0	3.0
S12DCMODE3	22	1.36	0.66	1.0	3.0
R5DCMODE4	1	2.00		2.0	2.0
R7DCMODE4	7	1.29	0.49	1.0	2.0
R9DCMODE4	1	1.00		1.0	1.0
R10DCMODE4	5	1.20	0.45	1.0	2.0
R11DCMODE4	3	1.67	1.15	1.0	3.0
R12DCMODE4	1	1.00		1.0	1.0
S5DCMODE4	1	2.00		2.0	2.0
S7DCMODE4	6	1.33	0.52	1.0	2.0
S10DCMODE4	4	1.25	0.50	1.0	2.0
S11DCMODE4	3	1.67	1.15	1.0	3.0
R1DCPCT1	600	13.01	21.26	0.3	100.0
R2DCPCT1	178	14.87	22.57	0.0	100.0
R3DCPCT1	204	12.69	20.39	0.0	100.0
R4DCPCT1	431	14.60	20.67	0.0	100.0
R5DCPCT1	277	10.86	17.61	0.0	100.0
R6DCPCT1	221	12.33	19.49	0.0	100.0
R7DCPCT1	888	11.98	19.89	0.0	100.0
R8DCPCT1	719	8.17	13.97	0.0	100.0
R9DCPCT1	627	6.14	8.02	0.0	100.0
R10DCPCT1	955	6.52	8.77	0.0	80.0
R11DCPCT1	787	6.41	10.92	0.0	100.0
R12DCPCT1	784	5.57	6.59	0.0	75.0
S1DCPCT1	489	13.25	21.71	0.3	100.0
S2DCPCT1	137	13.61	20.91	0.0	100.0
S3DCPCT1	158	12.97	20.82	0.0	100.0
S4DCPCT1	341	14.65	20.87	0.0	100.0
S5DCPCT1	205	11.34	18.73	0.0	100.0
S6DCPCT1	177	12.25	19.66	0.0	100.0
S7DCPCT1	695	12.93	21.05	0.0	100.0
S8DCPCT1	554	8.55	14.93	0.0	100.0
S9DCPCT1	492	6.14	8.28	0.0	100.0
S10DCPCT1	710	6.42	8.45	0.0	75.0
S11DCPCT1	584	6.28	10.94	0.0	100.0
S12DCPCT1	582	5.52	6.72	0.0	75.0
R1DCPCT2	322	14.50	23.28	0.5	100.0
R2DCPCT2	29	16.72	27.11	0.0	100.0
R3DCPCT2	48	10.33	16.39	0.0	60.0
R4DCPCT2	122	13.10	23.25	0.0	100.0
R5DCPCT2	52	9.83	15.76	0.0	100.0
R6DCPCT2	37	19.73	29.56	0.0	100.0
R7DCPCT2	245	12.16	19.98	1.0	100.0
R8DCPCT2	145	8.36	15.65	1.0	100.0
R9DCPCT2	118	6.24	10.50	0.0	100.0
R10DCPCT2	200	7.34	13.59	0.0	100.0
R11DCPCT2	167	6.84	10.16	0.0	90.0
R12DCPCT2	192	5.83	7.82	1.0	75.0
S1DCPCT2	279	14.63	23.60	0.5	100.0

S2DCPCT2	25	12.76	22.35	0.0	100.0
S3DCPCT2	43	10.12	16.05	0.0	60.0
S4DCPCT2	98	14.48	25.33	0.0	100.0
S5DCPCT2	40	10.50	17.60	0.0	100.0
S6DCPCT2	28	19.68	31.09	0.0	100.0
S7DCPCT2	184	13.02	21.99	1.0	100.0
S8DCPCT2	108	9.79	17.87	1.0	100.0
S9DCPCT2	99	6.24	11.27	0.0	100.0
S10DCPCT2	152	6.78	12.32	0.0	100.0
S11DCPCT2	123	6.50	9.92	0.0	90.0
S12DCPCT2	147	5.27	5.03	1.0	50.0
R1DCPCT3	43	20.81	30.30	0.3	100.0
R2DCPCT3	4	24.50	18.70	6.0	50.0
R3DCPCT3	7	4.86	3.13	1.0	10.0
R4DCPCT3	12	17.33	27.07	0.0	100.0
R5DCPCT3	10	14.60	14.60	0.0	50.0
R6DCPCT3	4	12.50	5.00	5.0	15.0
R7DCPCT3	21	18.29	34.43	1.0	100.0
R8DCPCT3	6	4.00	1.55	2.0	6.0
R9DCPCT3	10	11.20	15.57	1.0	50.0
R10DCPCT3	22	6.82	10.65	0.0	50.0
R11DCPCT3	19	10.05	20.32	2.0	93.0
R12DCPCT3	21	9.14	15.50	1.0	75.0
S1DCPCT3	31	22.60	30.87	0.3	100.0
S2DCPCT3	3	16.00	9.54	6.0	25.0
S3DCPCT3	6	4.50	3.27	1.0	10.0
S4DCPCT3	9	20.78	30.65	3.0	100.0
S5DCPCT3	7	18.71	15.86	0.0	50.0
S6DCPCT3	4	12.50	5.00	5.0	15.0
S7DCPCT3	16	22.13	38.78	1.0	100.0
S8DCPCT3	5	3.60	1.34	2.0	5.0
S9DCPCT3	10	11.20	15.57	1.0	50.0
S10DCPCT3	14	5.71	5.36	0.0	20.0
S11DCPCT3	13	11.77	24.51	2.0	93.0
S12DCPCT3	16	10.19	17.71	1.0	75.0
R7DCPCT4	5	3.60	3.65	1.0	10.0
R9DCPCT4	2	0.50	0.71	0.0	1.0
R10DCPCT4	4	7.50	6.56	2.0	17.0
R11DCPCT4	2	11.00	12.73	2.0	20.0
R12DCPCT4	1	3.00		3.0	3.0
S7DCPCT4	4	2.00	0.82	1.0	3.0
S9DCPCT4	1	0.00		0.0	0.0
S10DCPCT4	3	8.33	7.77	2.0	17.0
S11DCPCT4	2	11.00	12.73	2.0	20.0



## Categorical Variable Codes

Value	R1DCMODE1	R2DCMODE1	R3DCMODE1	R4DCMODE1	R5DCMODE1	R6DCMODE1	R7DCMODE1
.B=Not DC plan	2801	2209	1662	1862	1618	1185	1506
.D=DK	442	135	139	271	193	183	516
.K=Missing wage/work info	51	17	23	43	29	31	127
.M=Oth missing	33		2	5		1	3
.Q=Not asked this wv	140	9336	1110	1184	1120	935	212
.R=RF	117	6	16	30	18	42	42
.S=R denies have pension	3834	3275	3554	4393	3793	3366	4167
.W=Not working	4282	4373	11167	12977	12368	12093	12276
.X=No contrib--not asked	181	69	67	126	108	72	244
1.Employer contributes % of	600	177	202	424	274	220	887
2.Employer contributes \$ am	171	45	49	69	58	37	149

Value	R8DCMODE1	R9DCMODE1	R10DCMODE1	R11DCMODE1	R12DCMODE1
.B=Not DC plan	1225	1079	1860	1535	1208
.D=DK	443	332	401	451	359
.K=Missing wage/work info	70	98	117	121	86
.M=Oth missing		3	4	318	82
.Q=Not asked this wv	158	226	434		
.R=RF	39	34	71	46	51
.S=R denies have pension	3721	3238	4671	3897	3466
.W=Not working	11824	11334	13157	12581	11854
.X=No contrib--not asked	157	4	6	572	563
1.Employer contributes % of	717	623	949	783	779
2.Employer contributes \$ am	115	102	174	127	153
3.Employer contributes % of		144	190	123	146

Value	S1DCMODE1	S2DCMODE1	S3DCMODE1	S4DCMODE1	S5DCMODE1	S6DCMODE1	S7DCMODE1
.B=Not DC plan	2209	1725	1251	1381	1234	880	1108
.D=DK	324	101	104	195	139	137	374
.K=Missing wage/work info	41	13	16	29	24	24	86
.M=Oth missing	24		1	3		1	2
.Q=Not asked this wv	108	5415	868	936	863	698	165
.R=RF	92	4	11	7	9	27	29
.S=R denies have pension	3031	2565	2673	3199	2782	2478	3002
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working	3305	3237	6741	7739	7348	7127	7203
.X=No contrib--not asked	147	56	57	99	83	63	190
1.Employer contributes % of	489	136	156	337	202	176	694
2.Employer contributes \$ am	130	36	37	53	46	28	119

Value	S8DCMODE1	S9DCMODE1	S10DCMODE1	S11DCMODE1	S12DCMODE1
.B=Not DC plan	894	776	1301	1060	822
.D=DK	332	237	279	295	245
.K=Missing wage/work info	58	64	79	82	55
.M=Oth missing		3	2	216	48
.Q=Not asked this wv	122	168	296		
.R=RF	27	24	39	30	26
.S=R denies have pension	2684	2289	3163	2620	2275
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6860	6397	7397	6983	6346
.X=No contrib--not asked	114	3	4	439	418
1.Employer contributes % of	552	489	706	581	579
2.Employer contributes \$ am	92	83	127	98	115
3.Employer contributes % of		113	120	84	98

Value	R1DCMODE2	R2DCMODE2	R3DCMODE2	R4DCMODE2	R5DCMODE2	R6DCMODE2	R7DCMODE2
.B=Not DC plan	204	223	177	304	232	180	297
.D=DK	184	41	52	103	78	67	169
.K=Missing wage/work info	33	6		7	5	6	23
.M=Oth missing	8		2	3	1		3
.Q=Not asked this wv	13	8586	306	276	293	224	40
.R=RF	76	5	12	24	14	36	41
.S=R denies have pension	7043	6325	6168	7395	6473	5471	6736
.W=Not working	4282	4373	11167	12977	12368	12093	12276
.X=No contrib--not asked	416	43	42	144	47	41	243
1.Employer contributes % of	322	28	47	121	51	36	245
2.Employer contributes \$ am	71	12	18	30	17	11	56

Value	R8DCMODE2	R9DCMODE2	R10DCMODE2	R11DCMODE2	R12DCMODE2
.B=Not DC plan	156	303	550	456	331
.D=DK	96	99	154	194	144
.K=Missing wage/work info	16	14	21	22	17
.M=Oth missing		6	12	96	11
.Q=Not asked this wv	10	220	373		
.R=RF	17	32	59	32	33
.S=R denies have pension	6046	5029	7426	6765	5932
.W=Not working	11824	11334	13157	12581	11854
.X=No contrib--not asked	123	1	4	185	176
1.Employer contributes % of	145	117	196	166	192
2.Employer contributes \$ am	36	36	47	24	27
3.Employer contributes % of		26	35	33	30

Value	S1DCMODE2	S2DCMODE2	S3DCMODE2	S4DCMODE2	S5DCMODE2	S6DCMODE2	S7DCMODE2
.B=Not DC plan	163	183	136	237	186	143	232
.D=DK	135	31	36	77	62	48	125
.K=Missing wage/work info	26	5		7	5	4	19
.M=Oth missing	4		2	2			2
.Q=Not asked this wv	10	4833	244	217	228	170	31
.R=RF	57	4	7	4	6	25	29
.S=R denies have pension	5543	4928	4658	5458	4809	4052	4915
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working	3305	3237	6741	7739	7348	7127	7203
.X=No contrib--not asked	323	33	32	115	37	33	188
1.Employer contributes % of	279	24	42	97	39	27	184
2.Employer contributes \$ am	55	10	17	25	10	10	44

Value	S8DCMODE2	S9DCMODE2	S10DCMODE2	S11DCMODE2	S12DCMODE2
.B=Not DC plan	126	220	378	326	231
.D=DK	73	73	99	132	93
.K=Missing wage/work info	11	8	13	20	14
.M=Oth missing		4	10	66	9
.Q=Not asked this wv	9	162	271		
.R=RF	9	21	29	14	20
.S=R denies have pension	4419	3609	5107	4650	4004
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6860	6397	7397	6983	6346
.X=No contrib--not asked	97	1	2	134	121
1.Employer contributes % of	108	98	150	122	147
2.Employer contributes \$ am	23	32	35	18	21
3.Employer contributes % of		21	22	23	21

Value	R1DCMODE3	R2DCMODE3	R3DCMODE3	R4DCMODE3	R5DCMODE3	R6DCMODE3	R7DCMODE3
.B=Not DC plan	24	33	29	51	27	22	56
.D=DK	134	27	27	42	48	35	55
.K=Missing wage/work info	3	1				2	5
.M=Oth missing	5		1				
.Q=Not asked this wv	2	8259	41	28	17	23	3
.R=RF	35	3	12	20	14	35	31
.S=R denies have pension	8101	6931	6701	8227	7087	5948	7634
.W=Not working	4282	4373	11167	12977	12368	12093	12276
.X=No contrib--not asked	14	10	4	23	6	3	40
1.Employer contributes % of	43	4	7	11	9	4	21
2.Employer contributes \$ am	9	1	2	5	3		8

Value	R8DCMODE3	R9DCMODE3	R10DCMODE3	R11DCMODE3	R12DCMODE3
.B=Not DC plan	18	41	93	75	34
.D=DK	32	47	80	132	108
.K=Missing wage/work info	2		2	2	1
.M=Oth missing		2	5	15	1
.Q=Not asked this wv	1	26	48		
.R=RF	18	28	54	23	28
.S=R denies have pension	6549	5721	8556	7665	6652
.W=Not working	11824	11334	13157	12581	11854
.X=No contrib--not asked	15		2	33	36
1.Employer contributes % of	6	10	20	19	21
2.Employer contributes \$ am	4	5	15	6	8
3.Employer contributes % of		3	2	3	4

Value	S1DCMODE3	S2DCMODE3	S3DCMODE3	S4DCMODE3	S5DCMODE3	S6DCMODE3	S7DCMODE3
.B=Not DC plan	22	27	25	42	25	16	44
.D=DK	102	20	19	28	39	25	44
.K=Missing wage/work info	3	1				1	3
.M=Oth missing	3		1				
.Q=Not asked this wv	2	4581	35	21	11	18	2
.R=RF	27	2	7	3	6	24	20
.S=R denies have pension	6387	5407	5076	6112	5288	4421	5602
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working	3305	3237	6741	7739	7348	7127	7203
.X=No contrib--not asked	10	9	4	19	5	3	31
1.Employer contributes % of	31	3	6	9	6	4	16
2.Employer contributes \$ am	8	1	1	5	2		7

Value	S8DCMODE3	S9DCMODE3	S10DCMODE3	S11DCMODE3	S12DCMODE3
.B=Not DC plan	14	31	65	55	28
.D=DK	28	35	51	86	64
.K=Missing wage/work info	2		2	1	1
.M=Oth missing		2	5	9	1
.Q=Not asked this wv	1	20	36		
.R=RF	10	18	27	10	17
.S=R denies have pension	4798	4126	5903	5294	4519
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6860	6397	7397	6983	6346
.X=No contrib--not asked	13		2	28	29
1.Employer contributes % of	5	10	12	13	16
2.Employer contributes \$ am	4	5	11	6	4
3.Employer contributes % of		2	2	3	2

Value	R5DCMODE4	R6DCMODE4	R7DCMODE4
.B=Not DC plan	4	4	7
.D=DK	43	34	39
.K=Missing wage/work info		1	1
.Q=Not asked this wv	4	2	1
.R=RF	14	35	29
.S=R denies have pension	7143	5996	7764
.W=Not working	12368	12093	12276
.X=No contrib--not asked	2		5
1.Employer contributes % of			5
2.Employer contributes \$ am	1		2

Value	R8DCMODE4	R9DCMODE4	R10DCMODE4	R11DCMODE4	R12DCMODE4
.B=Not DC plan	3	4	19	8	6
.D=DK	25	35	69	123	98
.M=Oth missing				1	
.Q=Not asked this wv		3	2		
.R=RF	18	27	54	22	26
.S=R denies have pension	6598	5812	8728	7813	6757
.W=Not working	11824	11334	13157	12581	11854
.X=No contrib--not asked	1	1		3	5
1.Employer contributes % of		1	4	2	1
2.Employer contributes \$ am			1		
3.Employer contributes % of				1	

Value	S5DCMODE4	S6DCMODE4	S7DCMODE4
.B=Not DC plan	3	3	6
.D=DK	35	25	32
.K=Missing wage/work info		1	1
.Q=Not asked this wv	3	2	1
.R=RF	6	24	20
.S=R denies have pension	5332	4457	5698
.U=Unmarried	6538	6306	6777
.V=Spouse NR	311	220	380
.W=Not working	7348	7127	7203
.X=No contrib--not asked	2		5
1.Employer contributes % of			4
2.Employer contributes \$ am	1		2

Value	S8DCMODE4	S9DCMODE4	S10DCMODE4	S11DCMODE4	S12DCMODE4
.B=Not DC plan	3	4	13	5	3
.D=DK	23	26	44	79	58
.Q=Not asked this wv		3	1		
.R=RF	10	18	27	10	15
.S=R denies have pension	4838	4197	6027	5406	4600
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6860	6397	7397	6983	6346
.X=No contrib--not asked	1	1		2	5
1.Employer contributes % of			3	2	
2.Employer contributes \$ am			1		
3.Employer contributes % of				1	

## Format Reference Tables – complete variable value labels

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Variables: DCMODE1, DCMODE2, DCMODE3, DCMODE4

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.A=Dollar contribution
.B=Not DC plan
.D=DK
.H=Other specify
.K=Missing wage/work info
.M=Oth missing
.O=Other
.Q=Not asked this wv
.R=RF
.S=R denies have pension
.U=Unmarried
.V=Spouse NR
.W=Not working
.X=No contrib--not asked
.Y=Pen not from curr job
1.Employer contributes % of R's pay
2.Employer contributes $ amt
3.Employer contributes % of R's contribution
```

### How Constructed

RwDCBENE1, RwDCBENE2, RwDCBENE3 and RwDCBENE4 indicate the amount in nominal dollars that the Respondent's current employer contributes annually to a defined contribution pension plan for the Respondent. Before Wave 5, employer contributions may be reported for up to 3 plans. From Wave 5 through Wave 10, employer contributions may be reported for up to 4 plans. From Wave 11 forward, Respondents may report information on up to 10 plans, but we limit the RAND HRS Longitudinal File to the first four active plans as they appear in the data, to align with previous waves. SwDCBENE1, SwDCBENE2, SwDCBENE3 and SwDCBENE4 provide the information for the Respondent's spouse or partner.

If the Respondent is working for the same employer as in the previous wave and was previously included in a pension plan, then s/he is asked if the rules of the pension plan have changed. If the Respondent indicates that the rules have changed, s/he is asked the complete set of questions about newly reported pensions. Prior to Wave 7, if the rules have not changed, Respondents are not asked how much their employers contribute to the plan, and these responses are set to ".Q." Beginning in Wave 7, all Respondents are asked how much their employer contributes to each defined contribution plan.

If the Respondent is included in a pension plan through her/his current job, s/he is then asked for the type of plan. In Waves 1-8, employer contributions are calculated for Respondents who indicate a plan type of Type B only. In Waves 9-10, dollar amounts are calculated for Respondents who either a) consistently identify a defined contribution plan through the plan type (i.e., Type B or "Both Types" (Type A and Type B)) and the detailed plan name (e.g., 401K, 403b, etc.) or b) indicate a plan type of Type B or "Both Types" (Type A and Type B) and have a high level of confidence in their plan type selection. From Wave 11 forward, dollar amounts are calculated for Respondents who indicate a plan type of Type B or "Both Types" (Type A and Type B). In Waves 1-8, Respondents who indicate a plan type of "Both Types" (Type A and Type B) are not asked questions about employer contribution to the plan, and these responses are set to ".Q." In all Waves, Respondents who indicate a plan type of Type A (defined benefit), or who do not know or refuse to disclose the plan type, are set to ".B."

In all Waves, Respondents have the option to report employer contributions as a percentage of their annual wages or as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are annualized. If the Respondent reports contributions as a percentage, annual contributions are calculated by multiplying the reported percent by the Respondent's annual wages from the current, primary job. If the Respondent reports employer contributions as a fixed dollar

amount per time period, annual contributions are calculated based on the hours and weeks the Respondent reports working for her/his current, primary job. Beginning in Wave 9, Respondents are also given the option to report employer contributions as a percentage match to their own contribution to the plan, and these values are calculated using RwDCCONTx.

RwDCMODE1, RwDCMODE2, RwDCMODE3, and RwDCMODE4 indicate whether employer contributions are made as a percentage of a Respondent's pay, a fixed dollar amount per time period, or as a matched percent of the Respondent's contribution to her/his plan. SwDCMODE1, SwDCMODE2, SwDCMODE3, SwDCMODE4 provide the information for the Respondent's spouse or partner.

RwDCPCT1, RwDCPCT2, RwDCPCT3, and RwDCPCT4 indicate the percent of the Respondent's pay the employer contributes to the plan. If the employer contributes a fixed dollar amount, RwDCPCTx is set to special missing value ".A." SwDCPCT1, SwDCPCT2, SwDCPCT3, and SwDCPCT4 provide this information for the Respondent's spouse or partner.

If the amount contributed is missing, the variables are coded with special missing values which denote why the contribution is missing. When Respondents report having a defined contribution plan but the employer contribution questions are skipped over, RwDCBENEx is set to special missing value ".Q." (e.g., In Waves 2H-8, Respondents who reported "no rule changes" to their existing plans are not asked employer contribution questions.) If the questions are skipped because the Respondent does not have the pension, the variables are set to ".S" (e.g., if the Respondent has one pension, RwDCBENE2, RwDCBENE3, and from Wave 5 on, RwDCBENE4 equal ".S"). RwDCBENEx is also set to ".S" if the Respondent does not have a pension from the current job or does not provide the number of pensions s/he has in waves prior to 11. RwDCBENEx is set to ".W" if the Respondent is not working and to ".K" if any of the following are missing: wage information, the amount period, hours worked or weeks worked on primary job.

### **Cross Wave Differences in Original HRS Data**

In Waves 1-8 employer contributions to a defined contribution plan are calculated only for Respondents who indicate a plan type equal to Type B. In Waves 9 and 10, DC plans are defined in one of two ways: a) plans that are consistently identified as DC through the plan type (i.e., Type B or "Both Types" (Type A and Type B)) and the detailed plan name (e.g., 401K, 403b, etc.) or b) plans with a type of Type B or "Both Types" (Type A and Type B) where Respondents have a high level of confidence in their plan type selection. From Wave 11 forward, employer contributions are calculated for Respondents who indicate a plan type equal to Type B or "Both Types" (Type A and Type B).

The wording of the employer contribution question varies slightly across waves. In Waves 1, 2H, 3A, 3H, and 4, all Respondents are asked one question, "How much does your (business/employer) contribute (as a percent of your pay or amount of money per month or year)?"

In Waves 5-8, the wording changes slightly, to "How much does your [business/employer] contribute, either as a percent of your pay or as an amount of money per month or year?"

Beginning in Wave 9, two separate questions are asked of the Respondent about employer contributions to each plan. The first asks, "Does your [business/employer] make any contributions toward [that plan/(plan name)]?" The second is, "How much does your [business/employer] actually contribute, as a percent of your pay, or as an amount of money per month or year?"

In Waves 2H and 3A, the questions are asked separately for those employed by a firm and those that are self-employed. The question wording is the same in both places.

In Wave 3A, Respondents who work at a firm are asked to report on employer contributions for up to three plans. The self-employed are asked to report on only one plan.

In Waves 2H, 3A, 3H, 4, 5, and 6, employer contribution questions are not asked of those who are with the same employer and who reported having a pension plan at the previous wave where the rules have not changed. The variables for these Respondents are set to ".Q."

In Waves 1-8, employer contributions questions are not asked of Respondents indicating a plan type of "Both Types" (Type A and Type B). The variables for these Respondents are set to ".Q."

The questions are not asked in Wave 2A.

For Waves 5-10, the Respondent is asked to report on up to 4 plans.

Prior to Wave 11, the Respondent was asked to list her/his pensions in order of importance. From Wave 11 forward, due to the questionnaire change, the Respondent answers questions about all her/his pensions, with no regard to importance. We report employer contributions for up to the first four active plans in the data to remain consistent with earlier waves.

## HRS Variables Used

### HRS 1992:

V2909	F39:P1-TYPE OF PLAN
V2934	F56:TB/P1: EMPLR CONTR
V2935	F56:TB/P1:\$ EMPLR CONTR
V2936	F56:TB/P1:FREQ EMP CNTRB
V3009	F39:P2-TYPE OF PLAN
V3034	F56:TB/P2: EMPLR CONTR
V3035	F56:TB/P2:\$ EMPLR CONTR
V3036	F56:TB/P2:FREQ EMP CNTRB
V3109	F39:P3-TYPE OF PLAN
V3134	F56:TB/P3: EMPLR CONTR
V3135	F56:TB/P3:\$ EMPLR CONTR
V3136	F56:TB/P3:FREQ EMP CNTRB

### HRS 1994:

W3712	1. FA65.TYPE OF PENSION
W3724	2. FA65.TYPE OF PENSION
W3736	3. FA65.TYPE OF PENSION
W3756	1. FA73.TYPE OF PENSION
W3789	1. FA90.FORM OF EMPLOYER
W3790	1. FA90a.EMPLOYER CONTRI
W3791	1. FA90b.EMPLOYER CONTRI
W3792	1. FA90c.EMPLOYER CONTRI
W3808	2. FA73.TYPE OF PENSION
W3841	2. FA90.FORM OF EMPLOYER
W3842	2. FA90a.EMPLOYER CONTRI
W3843	2. FA90b.EMPLOYER CONTRI
W3844	2. FA90c.EMPLOYER CONTRI
W3860	3. FA73.TYPE OF PENSION
W3893	3. FA90.FORM OF EMPLOYER
W3894	3. FA90a.EMPLOYER CONTRI
W3895	3. FA90b.EMPLOYER CONTRI
W3896	3. FA90c.EMPLOYER CONTRI
W4378	1. FB29.TYPE OF RETIREME
W4390	2. FB29.TYPE OF RETIREME
W4402	3. FB29.TYPE OF RETIREME
W4415	1. FB37.TYPE OF PENSION
W4448	1. FB54.FORM OF EMPLOYER
W4449	1. FB54a.EMPLOYER CONTRI
W4450	1. FB54b.EMPLOYER CONTRI

W4451	1. FB54c.EMPLOYER CONTRI
W4467	2. FB37.TYPE OF PENSION
W4500	2. FB54.FORM OF EMPLOYER
W4501	2. FB54a.% OF PAY
W4502	2. FB54b.AMOUNT OF EMPLO
W4503	2. FB54c.AMOUNT OF EMP C
W4519	3. FB37.TYPE OF PENSION
W4552	3. FB54.FORM OF EMPLOYER
W4553	3. FB54a.EMPLOYER CONTRI
W4554	3. FB54b.EMPLOYER CONTRI
W4555	3. FB54c.EMPLOYER CONTRI
AHEAD 1995:	
D2928	GA63.PENSION RULES CHANGED
D2969_1	GA73. TYPE PENSION
D2969_2	GA73. TYPE PENSION
D2969_3	GA73. TYPE PENSION
D3026_1	GA90. HOW EMPLOYER CONTRIBUTES DC
D3026_2	GA90. HOW EMPLOYER CONTRIBUTES DC
D3026_3	GA90. HOW EMPLOYER CONTRIBUTES DC
D3027_1	GA90A. EMPLOYER CONTRIB PERCENT PAY
D3027_2	GA90A. EMPLOYER CONTRIB PERCENT PAY
D3027_3	GA90A. EMPLOYER CONTRIB PERCENT PAY
D3028_1	GA90B. EMPLOYER CONTRIB AMOUNT
D3028_2	GA90B. EMPLOYER CONTRIB AMOUNT
D3028_3	GA90B. EMPLOYER CONTRIB AMOUNT
D3029_1	GA90C. EMPLOYER CONTRIB AMOUNT PER
D3029_2	GA90C. EMPLOYER CONTRIB AMOUNT PER
D3029_3	GA90C. EMPLOYER CONTRIB AMOUNT PER
D3330_1	GB37. TYPE PENSION
D3389_1	GB54. HOW EMPLOYER CONTRIBUTES DC
D3390_1	GB54A. EMPLOYER CONTRIB PERCENT PAY
D3391_1	GB54B. EMPLOYER CONTRIB AMOUNT
D3392_1	GB54C. EMPLOYER CONTRIB AMOUNT PER
HRS 1996:	
E2835	G67.PENSION RULES CHANGED
E2840_1	G69.TYPE OF PENSION
E2840_2	G69.TYPE OF PENSION
E2840_3	G69.TYPE OF PENSION
E2875_1	G77.TYPE OF PENSION
E2875_2	G77.TYPE OF PENSION
E2875_3	G77.TYPE OF PENSION
E2931_1	G94.FORM OF EMPLOYER CONTRIBUTION
E2931_2	G94.FORM OF EMPLOYER CONTRIBUTION
E2931_3	G94.FORM OF EMPLOYER CONTRIBUTION
E2932_1	G94A.EMPLOYER CONTRIBUTION-%
E2932_2	G94A.EMPLOYER CONTRIBUTION-%
E2932_3	G94A.EMPLOYER CONTRIBUTION-%
E2933_1	G94B.EMPLOYER CONTRIBUTION-AMOUNT
E2933_2	G94B.EMPLOYER CONTRIBUTION-AMOUNT
E2933_3	G94B.EMPLOYER CONTRIBUTION-AMOUNT
E2934_1	G94C.EMPLOYER CONTRIBUTION-PER
E2934_2	G94C.EMPLOYER CONTRIBUTION-PER
E2934_3	G94C.EMPLOYER CONTRIBUTION-PER
HRS 1998:	
F3359	G67.PENSION RULES CHANGED
F3364_1	G69.TYPE OF PENSION
F3364_2	G69.TYPE OF PENSION
F3364_3	G69.TYPE OF PENSION
F3403_1	G77.TYPE OF PENSION



F3403_2	G77.TYPE OF PENSION
F3403_3	G77.TYPE OF PENSION
F3459_1	G94.FORM OF EMPLOYER CONTRIBUTION
F3459_2	G94.FORM OF EMPLOYER CONTRIBUTION
F3459_3	G94.FORM OF EMPLOYER CONTRIBUTION
F3460_1	G94A.EMPLOYER CONTRIBUTION-%
F3460_2	G94A.EMPLOYER CONTRIBUTION-%
F3460_3	G94A.EMPLOYER CONTRIBUTION-%
F3461_1	G94B.EMPLOYER CONTRIBUTION-AMOUNT
F3461_2	G94B.EMPLOYER CONTRIBUTION-AMOUNT
F3461_3	G94B.EMPLOYER CONTRIBUTION-AMOUNT
F3462_1	G94C.EMPLOYER CONTRIBUTION-PER
F3462_2	G94C.EMPLOYER CONTRIBUTION-PER
F3462_3	G94C.EMPLOYER CONTRIBUTION-PER
HRS 2000:	
G3619	G67.PENSION RULES CHANGED
G3624_1	G69.TYPE OF PENSION
G3624_2	G69.TYPE OF PENSION
G3624_3	G69.TYPE OF PENSION
G3624_4	G69.TYPE OF PENSION
G3683_1	G77.TYPE OF PENSION
G3683_2	G77.TYPE OF PENSION
G3683_3	G77.TYPE OF PENSION
G3683_4	G77.TYPE OF PENSION
G3744_1	G94.FORM OF EMPLOYER CONTRIBUTION
G3744_2	G94.FORM OF EMPLOYER CONTRIBUTION
G3744_3	G94.FORM OF EMPLOYER CONTRIBUTION
G3744_4	G94.FORM OF EMPLOYER CONTRIBUTION
G3745_1	G94A.EMPLOYER CONTRIBUTION-PCT
G3745_2	G94A.EMPLOYER CONTRIBUTION-PCT
G3745_3	G94A.EMPLOYER CONTRIBUTION-PCT
G3745_4	G94A.EMPLOYER CONTRIBUTION-PCT
G3746_1	G94B.EMPLOYER CONTRIBUTION-AMOUNT
G3746_2	G94B.EMPLOYER CONTRIBUTION-AMOUNT
G3746_3	G94B.EMPLOYER CONTRIBUTION-AMOUNT
G3746_4	G94B.EMPLOYER CONTRIBUTION-AMOUNT
G3747_1	G94C.EMPLOYER CONTRIBUTION-PER
G3747_2	G94C.EMPLOYER CONTRIBUTION-PER
G3747_3	G94C.EMPLOYER CONTRIBUTION-PER
G3747_4	G94C.EMPLOYER CONTRIBUTION-PER
HRS 2002:	
HJ268	PENSION RULES CHANGED
HJ272_1	TYPE OF PENSION- 1
HJ272_2	TYPE OF PENSION- 2
HJ272_3	TYPE OF PENSION- 3
HJ272_4	TYPE OF PENSION- 4
HJ338_1	PENSION PLAN TYPE- 1
HJ338_2	PENSION PLAN TYPE- 2
HJ338_3	PENSION PLAN TYPE- 3
HJ338_4	PENSION PLAN TYPE- 4
HJ396_1	FORM OF EMPLOYER CONTRIBUTION-1
HJ396_2	FORM OF EMPLOYER CONTRIBUTION-2
HJ396_3	FORM OF EMPLOYER CONTRIBUTION-3
HJ396_4	FORM OF EMPLOYER CONTRIBUTION-4
HJ397_1	EMPLOYER CONTRIBUTION-PCT-1
HJ397_2	EMPLOYER CONTRIBUTION-PCT-2
HJ397_3	EMPLOYER CONTRIBUTION-PCT-3
HJ397_4	EMPLOYER CONTRIBUTION-PCT-4
HJ398_1	AMT-EMPLOYER CONTRIBUTION-1

HJ398_2	AMT-EMPLOYER CONTRIBUTION-2
HJ398_3	AMT-EMPLOYER CONTRIBUTION-3
HJ398_4	AMT-EMPLOYER CONTRIBUTION-4
HJ402_1	AMOUNT EMPLOYER CONTRIBUTION - PER-1
HJ402_2	AMOUNT EMPLOYER CONTRIBUTION - PER-2
HJ402_3	AMOUNT EMPLOYER CONTRIBUTION - PER-3
HJ402_4	AMOUNT EMPLOYER CONTRIBUTION - PER-4
HRS 2004:	
JJ268	PENSION RULES CHANGED
JJ338A	PENSION PLAN TYPE- 1
JJ338B	PENSION PLAN TYPE- 2
JJ338C	PENSION PLAN TYPE- 3
JJ338D	PENSION PLAN TYPE- 4
JJ396A	FORM OF EMPLOYER CONTRIBUTION-1
JJ396B	FORM OF EMPLOYER CONTRIBUTION-2
JJ396C	FORM OF EMPLOYER CONTRIBUTION-3
JJ396D	FORM OF EMPLOYER CONTRIBUTION-4
JJ397A	EMPLOYER CONTRIBUTION-PCT-1
JJ397B	EMPLOYER CONTRIBUTION-PCT-2
JJ397C	EMPLOYER CONTRIBUTION-PCT-3
JJ397D	EMPLOYER CONTRIBUTION-PCT-4
JJ398A	AMT-EMPLOYER CONTRIBUTION-1
JJ398B	AMT-EMPLOYER CONTRIBUTION-2
JJ398C	AMT-EMPLOYER CONTRIBUTION-3
JJ398D	AMT-EMPLOYER CONTRIBUTION-4
JJ402A	AMOUNT EMPLOYER CONTRIBUTION - PER-1
JJ402B	AMOUNT EMPLOYER CONTRIBUTION - PER-2
JJ402C	AMOUNT EMPLOYER CONTRIBUTION - PER-3
JJ402D	AMOUNT EMPLOYER CONTRIBUTION - PER-4
HRS 2006:	
KJ268	PENSION RULES CHANGED
KJ272A	TYPE OF PENSION- 1 -1
KJ272B	TYPE OF PENSION- 1 -2
KJ272C	TYPE OF PENSION- 1 -3
KJ272D	TYPE OF PENSION- 1 -4
KJ338A	PENSION PLAN TYPE- 1
KJ338B	PENSION PLAN TYPE- 2
KJ338C	PENSION PLAN TYPE- 3
KJ338D	PENSION PLAN TYPE- 4
KJ397A	EMPLOYER CONTRIBUTION-PCT-1
KJ397B	EMPLOYER CONTRIBUTION-PCT-2
KJ397C	EMPLOYER CONTRIBUTION-PCT-3
KJ397D	EMPLOYER CONTRIBUTION-PCT-4
KJ398A	AMT-EMPLOYER CONTRIBUTION-1
KJ398B	AMT-EMPLOYER CONTRIBUTION-2
KJ398C	AMT-EMPLOYER CONTRIBUTION-3
KJ398D	AMT-EMPLOYER CONTRIBUTION-4
KJ402A	AMOUNT EMPLOYER CONTRIBUTION - PER-1
KJ402B	AMOUNT EMPLOYER CONTRIBUTION - PER-2
KJ402C	AMOUNT EMPLOYER CONTRIBUTION - PER-3
KJ402D	AMOUNT EMPLOYER CONTRIBUTION - PER-4
KJ757A	FORM OF EMPLOYER CONTRIBUTION -1
KJ757B	FORM OF EMPLOYER CONTRIBUTION -2
KJ757C	FORM OF EMPLOYER CONTRIBUTION -3
KJ757D	FORM OF EMPLOYER CONTRIBUTION -4
KJ758A	EMPLOYER CONTRIBUTION-PCT -1
KJ758B	EMPLOYER CONTRIBUTION-PCT -2
KJ758C	EMPLOYER CONTRIBUTION-PCT -3
KJ758D	EMPLOYER CONTRIBUTION-PCT -4

KJ762A	AMT-EMPLOYER CONTRIBUTION -1
KJ762B	AMT-EMPLOYER CONTRIBUTION -2
KJ762C	AMT-EMPLOYER CONTRIBUTION -3
KJ762D	AMT-EMPLOYER CONTRIBUTION -4
KJ766A	AMOUNT EMPLOYER CONTRIBUTION - PER -1
KJ766B	AMOUNT EMPLOYER CONTRIBUTION - PER -2
KJ766C	AMOUNT EMPLOYER CONTRIBUTION - PER -3
KJ766D	AMOUNT EMPLOYER CONTRIBUTION - PER -4
HRS 2008:	
LJ045	STILL WORKING PREV EMPLOYER
LJ248	MO-START WORK FOR CURRENT EMPLOYER
LJ249	YR-START WORK FOR CURRENT EMPLOYER
LJ256	YR BEGIN CURRENT EMPLOYMENT
LJ335	# PENSION PLANS INCLUDED
LJ336	INCLUDED ONE PLAN OR MORE
LJ338_1	PENSION PLAN TYPE- 1
LJ338_2	PENSION PLAN TYPE- 2
LJ338_3	PENSION PLAN TYPE- 3
LJ338_4	PENSION PLAN TYPE- 4
LJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
LJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
LJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
LJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
LJ396_1	FORM OF EMPLOYER CONTRIBUTION-1
LJ396_2	FORM OF EMPLOYER CONTRIBUTION-2
LJ396_3	FORM OF EMPLOYER CONTRIBUTION-3
LJ396_4	FORM OF EMPLOYER CONTRIBUTION-4
LJ397_1	EMPLOYER CONTRIBUTION-PCT-1
LJ397_2	EMPLOYER CONTRIBUTION-PCT-2
LJ397_3	EMPLOYER CONTRIBUTION-PCT-3
LJ397_4	EMPLOYER CONTRIBUTION-PCT-4
LJ398_1	AMT-EMPLOYER CONTRIBUTION-1
LJ398_2	AMT-EMPLOYER CONTRIBUTION-2
LJ398_3	AMT-EMPLOYER CONTRIBUTION-3
LJ398_4	AMT-EMPLOYER CONTRIBUTION-4
LJ402_1	AMOUNT EMPLOYER CONTRIBUTION - PER-1
LJ402_2	AMOUNT EMPLOYER CONTRIBUTION - PER-2
LJ402_3	AMOUNT EMPLOYER CONTRIBUTION - PER-3
LJ402_4	AMOUNT EMPLOYER CONTRIBUTION - PER-4
LJ856	PARTICIPATING IN NEW PLAN
LJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
LJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
LJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
LJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
LJ894_1	EMPLOYER CONTRIBUTION-PCT -1
LJ894_2	EMPLOYER CONTRIBUTION-PCT -2
LJ894_3	EMPLOYER CONTRIBUTION-PCT -3
LJ894_4	EMPLOYER CONTRIBUTION-PCT -4
LZ092	PREV WAVE IW MONTH
LZ093	PREV WAVE IW YEAR
LZ133	PREV WAVE R HAD PENSION ON JOB
HRS 2010:	
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ045	STILL WORKING PREV EMPLOYER
MJ248	MO-START WORK FOR CURRENT EMPLOYER
MJ249	YR-START WORK FOR CURRENT EMPLOYER
MJ256	YR BEGIN CURRENT EMPLOYMENT
MJ335	# PENSION PLANS INCLUDED
MJ336	INCLUDED ONE PLAN OR MORE

MJ338_1	PENSION PLAN TYPE- 1
MJ338_2	PENSION PLAN TYPE- 2
MJ338_3	PENSION PLAN TYPE- 3
MJ338_4	PENSION PLAN TYPE- 4
MJ393_1	CERTAINTY ABOUT THE PLAN NAME-BRIEF -1
MJ393_2	CERTAINTY ABOUT THE PLAN NAME-BRIEF -2
MJ393_3	CERTAINTY ABOUT THE PLAN NAME-BRIEF -3
MJ393_4	CERTAINTY ABOUT THE PLAN NAME-BRIEF -4
MJ396_1	FORM OF EMPLOYER CONTRIBUTION-1
MJ396_2	FORM OF EMPLOYER CONTRIBUTION-2
MJ396_3	FORM OF EMPLOYER CONTRIBUTION-3
MJ396_4	FORM OF EMPLOYER CONTRIBUTION-4
MJ397_1	EMPLOYER CONTRIBUTION-PCT-1
MJ397_2	EMPLOYER CONTRIBUTION-PCT-2
MJ397_3	EMPLOYER CONTRIBUTION-PCT-3
MJ397_4	EMPLOYER CONTRIBUTION-PCT-4
MJ398_1	AMT-EMPLOYER CONTRIBUTION-1
MJ398_2	AMT-EMPLOYER CONTRIBUTION-2
MJ398_3	AMT-EMPLOYER CONTRIBUTION-3
MJ398_4	AMT-EMPLOYER CONTRIBUTION-4
MJ402_1	AMOUNT EMPLOYER CONTRIBUTION - PER-1
MJ402_2	AMOUNT EMPLOYER CONTRIBUTION - PER-2
MJ402_3	AMOUNT EMPLOYER CONTRIBUTION - PER-3
MJ402_4	AMOUNT EMPLOYER CONTRIBUTION - PER-4
MJ856	PARTICIPATING IN NEW PLAN
MJ863_1	CERTAINTY ABOUT TYPE OF PLAN -1
MJ863_2	CERTAINTY ABOUT TYPE OF PLAN -2
MJ863_3	CERTAINTY ABOUT TYPE OF PLAN -3
MJ863_4	CERTAINTY ABOUT TYPE OF PLAN -4
MJ894_1	EMPLOYER CONTRIBUTION-PCT -1
MJ894_2	EMPLOYER CONTRIBUTION-PCT -2
MJ894_3	EMPLOYER CONTRIBUTION-PCT -3
MJ894_4	EMPLOYER CONTRIBUTION-PCT -4
MZ092	PREV WAVE IW MONTH
MZ093	PREV WAVE IW YEAR
MZ133	PREV WAVE R HAD PENSION ON JOB
MZ136	PREV WAVE SELF/ELSE EMPLOYED
HRS 2012:	
NJ2338_1	PENSION PLAN TYPE-DB OR DC -1_1
NJ2338_10	PENSION PLAN TYPE-DB OR DC -1_10
NJ2338_2	PENSION PLAN TYPE-DB OR DC -1_2
NJ2338_3	PENSION PLAN TYPE-DB OR DC -1_3
NJ2338_4	PENSION PLAN TYPE-DB OR DC -1_4
NJ2338_5	PENSION PLAN TYPE-DB OR DC -1_5
NJ2338_6	PENSION PLAN TYPE-DB OR DC -1_6
NJ2338_7	PENSION PLAN TYPE-DB OR DC -1_7
NJ2338_8	PENSION PLAN TYPE-DB OR DC -1_8
NJ2338_9	PENSION PLAN TYPE-DB OR DC -1_9
NJ2396_1	FORM OF EMPLOYER CONTRIBUTION -1_1
NJ2396_10	FORM OF EMPLOYER CONTRIBUTION -1_10
NJ2396_2	FORM OF EMPLOYER CONTRIBUTION -1_2
NJ2396_3	FORM OF EMPLOYER CONTRIBUTION -1_3
NJ2396_4	FORM OF EMPLOYER CONTRIBUTION -1_4
NJ2396_5	FORM OF EMPLOYER CONTRIBUTION -1_5
NJ2396_6	FORM OF EMPLOYER CONTRIBUTION -1_6
NJ2396_7	FORM OF EMPLOYER CONTRIBUTION -1_7
NJ2396_8	FORM OF EMPLOYER CONTRIBUTION -1_8
NJ2396_9	FORM OF EMPLOYER CONTRIBUTION -1_9
NJ2397_1	PCT-EMPLOYER CONTRIBUTION -1_1

NJ2397_10	PCT-EMPLOYER CONTRIBUTION -1_10
NJ2397_2	PCT-EMPLOYER CONTRIBUTION -1_2
NJ2397_3	PCT-EMPLOYER CONTRIBUTION -1_3
NJ2397_4	PCT-EMPLOYER CONTRIBUTION -1_4
NJ2397_5	PCT-EMPLOYER CONTRIBUTION -1_5
NJ2397_6	PCT-EMPLOYER CONTRIBUTION -1_6
NJ2397_7	PCT-EMPLOYER CONTRIBUTION -1_7
NJ2397_8	PCT-EMPLOYER CONTRIBUTION -1_8
NJ2397_9	PCT-EMPLOYER CONTRIBUTION -1_9
NJ2398_1	AMT-EMPLOYER CONTRIBUTION -1_1
NJ2398_10	AMT-EMPLOYER CONTRIBUTION -1_10
NJ2398_2	AMT-EMPLOYER CONTRIBUTION -1_2
NJ2398_3	AMT-EMPLOYER CONTRIBUTION -1_3
NJ2398_4	AMT-EMPLOYER CONTRIBUTION -1_4
NJ2398_5	AMT-EMPLOYER CONTRIBUTION -1_5
NJ2398_6	AMT-EMPLOYER CONTRIBUTION -1_6
NJ2398_7	AMT-EMPLOYER CONTRIBUTION -1_7
NJ2398_8	AMT-EMPLOYER CONTRIBUTION -1_8
NJ2398_9	AMT-EMPLOYER CONTRIBUTION -1_9
NJ2402_1	AMT EMPLOYER CONTRIBUTION - PER -1_1
NJ2402_10	AMT EMPLOYER CONTRIBUTION - PER -1_10
NJ2402_2	AMT EMPLOYER CONTRIBUTION - PER -1_2
NJ2402_3	AMT EMPLOYER CONTRIBUTION - PER -1_3
NJ2402_4	AMT EMPLOYER CONTRIBUTION - PER -1_4
NJ2402_5	AMT EMPLOYER CONTRIBUTION - PER -1_5
NJ2402_6	AMT EMPLOYER CONTRIBUTION - PER -1_6
NJ2402_7	AMT EMPLOYER CONTRIBUTION - PER -1_7
NJ2402_8	AMT EMPLOYER CONTRIBUTION - PER -1_8
NJ2402_9	AMT EMPLOYER CONTRIBUTION - PER -1_9
NJ2878_1	FORM OF EMPLOYER CONTRIBUTION -1_1
NJ2878_10	FORM OF EMPLOYER CONTRIBUTION -1_10
NJ2878_2	FORM OF EMPLOYER CONTRIBUTION -1_2
NJ2878_3	FORM OF EMPLOYER CONTRIBUTION -1_3
NJ2878_4	FORM OF EMPLOYER CONTRIBUTION -1_4
NJ2878_5	FORM OF EMPLOYER CONTRIBUTION -1_5
NJ2878_6	FORM OF EMPLOYER CONTRIBUTION -1_6
NJ2878_7	FORM OF EMPLOYER CONTRIBUTION -1_7
NJ2878_8	FORM OF EMPLOYER CONTRIBUTION -1_8
NJ2878_9	FORM OF EMPLOYER CONTRIBUTION -1_9
NJ2886_1	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_1
NJ2886_10	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_10
NJ2886_2	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_2
NJ2886_3	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_3
NJ2886_4	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_4
NJ2886_5	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_5
NJ2886_6	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_6
NJ2886_7	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_7
NJ2886_8	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_8
NJ2886_9	PLAN KIND-401K/TYPE-DB/DC CONSISTENCY -1_9
NJ2945_1	PENSION RULES CHANGED -1_1
NJ2945_10	PENSION RULES CHANGED -1_10
NJ2945_2	PENSION RULES CHANGED -1_2
NJ2945_3	PENSION RULES CHANGED -1_3
NJ2945_4	PENSION RULES CHANGED -1_4
NJ2945_5	PENSION RULES CHANGED -1_5
NJ2945_6	PENSION RULES CHANGED -1_6
NJ2945_7	PENSION RULES CHANGED -1_7
NJ2945_8	PENSION RULES CHANGED -1_8
NJ2945_9	PENSION RULES CHANGED -1_9

NJ2W401_1	ANY OTHER PENSIONS_1
NJ2W401_10	ANY OTHER PENSIONS_10
NJ2W401_2	ANY OTHER PENSIONS_2
NJ2W401_3	ANY OTHER PENSIONS_3
NJ2W401_4	ANY OTHER PENSIONS_4
NJ2W401_5	ANY OTHER PENSIONS_5
NJ2W401_6	ANY OTHER PENSIONS_6
NJ2W401_7	ANY OTHER PENSIONS_7
NJ2W401_8	ANY OTHER PENSIONS_8
NJ2W401_9	ANY OTHER PENSIONS_9
NJ2W403_1	STILL HAVE PLAN NOW_1
NJ2W403_10	STILL HAVE PLAN NOW_10
NJ2W403_2	STILL HAVE PLAN NOW_2
NJ2W403_3	STILL HAVE PLAN NOW_3
NJ2W403_4	STILL HAVE PLAN NOW_4
NJ2W403_5	STILL HAVE PLAN NOW_5
NJ2W403_6	STILL HAVE PLAN NOW_6
NJ2W403_7	STILL HAVE PLAN NOW_7
NJ2W403_8	STILL HAVE PLAN NOW_8
NJ2W403_9	STILL HAVE PLAN NOW_9
NJ2W407_1	TYPE -1_1
NJ2W407_10	TYPE -1_10
NJ2W407_2	TYPE -1_2
NJ2W407_3	TYPE -1_3
NJ2W407_4	TYPE -1_4
NJ2W407_5	TYPE -1_5
NJ2W407_6	TYPE -1_6
NJ2W407_7	TYPE -1_7
NJ2W407_8	TYPE -1_8
NJ2W407_9	TYPE -1_9
NJ2W429_1	HOW PENSION RULES CHANGED -1_1
NJ2W429_10	HOW PENSION RULES CHANGED -1_10
NJ2W429_2	HOW PENSION RULES CHANGED -1_2
NJ2W429_3	HOW PENSION RULES CHANGED -1_3
NJ2W429_4	HOW PENSION RULES CHANGED -1_4
NJ2W429_5	HOW PENSION RULES CHANGED -1_5
NJ2W429_6	HOW PENSION RULES CHANGED -1_6
NJ2W429_7	HOW PENSION RULES CHANGED -1_7
NJ2W429_8	HOW PENSION RULES CHANGED -1_8
NJ2W429_9	HOW PENSION RULES CHANGED -1_9
NJ2W451_1	PLAN ACTIVE OR DEAD -1_1
NJ2W451_10	PLAN ACTIVE OR DEAD -1_10
NJ2W451_2	PLAN ACTIVE OR DEAD -1_2
NJ2W451_3	PLAN ACTIVE OR DEAD -1_3
NJ2W451_4	PLAN ACTIVE OR DEAD -1_4
NJ2W451_5	PLAN ACTIVE OR DEAD -1_5
NJ2W451_6	PLAN ACTIVE OR DEAD -1_6
NJ2W451_7	PLAN ACTIVE OR DEAD -1_7
NJ2W451_8	PLAN ACTIVE OR DEAD -1_8
NJ2W451_9	PLAN ACTIVE OR DEAD -1_9
NJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB -1_1
NJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB -1_10
NJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB -1_2
NJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB -1_3
NJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB -1_4
NJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB -1_5
NJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB -1_6
NJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB -1_7
NJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB -1_8

NJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB -1_9
HRS 2014:	
OJ2338_1	PENSION PLAN TYPE-DB OR DC_1
OJ2338_10	PENSION PLAN TYPE-DB OR DC_10
OJ2338_2	PENSION PLAN TYPE-DB OR DC_2
OJ2338_3	PENSION PLAN TYPE-DB OR DC_3
OJ2338_4	PENSION PLAN TYPE-DB OR DC_4
OJ2338_5	PENSION PLAN TYPE-DB OR DC_5
OJ2338_6	PENSION PLAN TYPE-DB OR DC_6
OJ2338_7	PENSION PLAN TYPE-DB OR DC_7
OJ2338_8	PENSION PLAN TYPE-DB OR DC_8
OJ2338_9	PENSION PLAN TYPE-DB OR DC_9
OJ2396_1	FORM OF EMPLOYER CONTRIBUTION_1
OJ2396_10	FORM OF EMPLOYER CONTRIBUTION_10
OJ2396_2	FORM OF EMPLOYER CONTRIBUTION_2
OJ2396_3	FORM OF EMPLOYER CONTRIBUTION_3
OJ2396_4	FORM OF EMPLOYER CONTRIBUTION_4
OJ2396_5	FORM OF EMPLOYER CONTRIBUTION_5
OJ2396_6	FORM OF EMPLOYER CONTRIBUTION_6
OJ2396_7	FORM OF EMPLOYER CONTRIBUTION_7
OJ2396_8	FORM OF EMPLOYER CONTRIBUTION_8
OJ2396_9	FORM OF EMPLOYER CONTRIBUTION_9
OJ2397_1	PCT-EMPLOYER CONTRIBUTION_1
OJ2397_10	PCT-EMPLOYER CONTRIBUTION_10
OJ2397_2	PCT-EMPLOYER CONTRIBUTION_2
OJ2397_3	PCT-EMPLOYER CONTRIBUTION_3
OJ2397_4	PCT-EMPLOYER CONTRIBUTION_4
OJ2397_5	PCT-EMPLOYER CONTRIBUTION_5
OJ2397_6	PCT-EMPLOYER CONTRIBUTION_6
OJ2397_7	PCT-EMPLOYER CONTRIBUTION_7
OJ2397_8	PCT-EMPLOYER CONTRIBUTION_8
OJ2397_9	PCT-EMPLOYER CONTRIBUTION_9
OJ2398_1	AMT-EMPLOYER CONTRIBUTION_1
OJ2398_10	AMT-EMPLOYER CONTRIBUTION_10
OJ2398_2	AMT-EMPLOYER CONTRIBUTION_2
OJ2398_3	AMT-EMPLOYER CONTRIBUTION_3
OJ2398_4	AMT-EMPLOYER CONTRIBUTION_4
OJ2398_5	AMT-EMPLOYER CONTRIBUTION_5
OJ2398_6	AMT-EMPLOYER CONTRIBUTION_6
OJ2398_7	AMT-EMPLOYER CONTRIBUTION_7
OJ2398_8	AMT-EMPLOYER CONTRIBUTION_8
OJ2398_9	AMT-EMPLOYER CONTRIBUTION_9
OJ2402_1	AMT EMPLOYER CONTRIBUTION-PER_1
OJ2402_10	AMT EMPLOYER CONTRIBUTION-PER_10
OJ2402_2	AMT EMPLOYER CONTRIBUTION-PER_2
OJ2402_3	AMT EMPLOYER CONTRIBUTION-PER_3
OJ2402_4	AMT EMPLOYER CONTRIBUTION-PER_4
OJ2402_5	AMT EMPLOYER CONTRIBUTION-PER_5
OJ2402_6	AMT EMPLOYER CONTRIBUTION-PER_6
OJ2402_7	AMT EMPLOYER CONTRIBUTION-PER_7
OJ2402_8	AMT EMPLOYER CONTRIBUTION-PER_8
OJ2402_9	AMT EMPLOYER CONTRIBUTION-PER_9
OJ2878_1	FORM OF EMPLOYER CONTRIBUTION_1
OJ2878_10	FORM OF EMPLOYER CONTRIBUTION_10
OJ2878_2	FORM OF EMPLOYER CONTRIBUTION_2
OJ2878_3	FORM OF EMPLOYER CONTRIBUTION_3
OJ2878_4	FORM OF EMPLOYER CONTRIBUTION_4
OJ2878_5	FORM OF EMPLOYER CONTRIBUTION_5
OJ2878_6	FORM OF EMPLOYER CONTRIBUTION_6

OJ2878_7	FORM OF EMPLOYER CONTRIBUTION_7
OJ2878_8	FORM OF EMPLOYER CONTRIBUTION_8
OJ2878_9	FORM OF EMPLOYER CONTRIBUTION_9
OJ2945_1	PENSION RULES CHANGED_1
OJ2945_10	PENSION RULES CHANGED_10
OJ2945_2	PENSION RULES CHANGED_2
OJ2945_3	PENSION RULES CHANGED_3
OJ2945_4	PENSION RULES CHANGED_4
OJ2945_5	PENSION RULES CHANGED_5
OJ2945_6	PENSION RULES CHANGED_6
OJ2945_7	PENSION RULES CHANGED_7
OJ2945_8	PENSION RULES CHANGED_8
OJ2945_9	PENSION RULES CHANGED_9
OJ2W401_1	ANY OTHER PENSIONS_1
OJ2W401_10	ANY OTHER PENSIONS_10
OJ2W401_2	ANY OTHER PENSIONS_2
OJ2W401_3	ANY OTHER PENSIONS_3
OJ2W401_4	ANY OTHER PENSIONS_4
OJ2W401_5	ANY OTHER PENSIONS_5
OJ2W401_6	ANY OTHER PENSIONS_6
OJ2W401_7	ANY OTHER PENSIONS_7
OJ2W401_8	ANY OTHER PENSIONS_8
OJ2W401_9	ANY OTHER PENSIONS_9
OJ2W403_1	STILL HAVE PLAN NOW_1
OJ2W403_10	STILL HAVE PLAN NOW_10
OJ2W403_2	STILL HAVE PLAN NOW_2
OJ2W403_3	STILL HAVE PLAN NOW_3
OJ2W403_4	STILL HAVE PLAN NOW_4
OJ2W403_5	STILL HAVE PLAN NOW_5
OJ2W403_6	STILL HAVE PLAN NOW_6
OJ2W403_7	STILL HAVE PLAN NOW_7
OJ2W403_8	STILL HAVE PLAN NOW_8
OJ2W403_9	STILL HAVE PLAN NOW_9
OJ2W407_1	TYPE_1
OJ2W407_10	TYPE_10
OJ2W407_2	TYPE_2
OJ2W407_3	TYPE_3
OJ2W407_4	TYPE_4
OJ2W407_5	TYPE_5
OJ2W407_6	TYPE_6
OJ2W407_7	TYPE_7
OJ2W407_8	TYPE_8
OJ2W407_9	TYPE_9
OJ2W451_1	PLAN ACTIVE OR DEAD_1
OJ2W451_10	PLAN ACTIVE OR DEAD_10
OJ2W451_2	PLAN ACTIVE OR DEAD_2
OJ2W451_3	PLAN ACTIVE OR DEAD_3
OJ2W451_4	PLAN ACTIVE OR DEAD_4
OJ2W451_5	PLAN ACTIVE OR DEAD_5
OJ2W451_6	PLAN ACTIVE OR DEAD_6
OJ2W451_7	PLAN ACTIVE OR DEAD_7
OJ2W451_8	PLAN ACTIVE OR DEAD_8
OJ2W451_9	PLAN ACTIVE OR DEAD_9
OJ2W452_1	WHETHER PLAN FROM NEW OR SAME JOB_1
OJ2W452_10	WHETHER PLAN FROM NEW OR SAME JOB_10
OJ2W452_2	WHETHER PLAN FROM NEW OR SAME JOB_2
OJ2W452_3	WHETHER PLAN FROM NEW OR SAME JOB_3
OJ2W452_4	WHETHER PLAN FROM NEW OR SAME JOB_4
OJ2W452_5	WHETHER PLAN FROM NEW OR SAME JOB_5



OJ2W452_6	WHETHER PLAN FROM NEW OR SAME JOB_6
OJ2W452_7	WHETHER PLAN FROM NEW OR SAME JOB_7
OJ2W452_8	WHETHER PLAN FROM NEW OR SAME JOB_8
OJ2W452_9	WHETHER PLAN FROM NEW OR SAME JOB_9
OJ2Z140_1	PREV WAVE OLD PENSION TYPE_1
OJ2Z140_10	PREV WAVE OLD PENSION TYPE_10
OJ2Z140_2	PREV WAVE OLD PENSION TYPE_2
OJ2Z140_3	PREV WAVE OLD PENSION TYPE_3
OJ2Z140_4	PREV WAVE OLD PENSION TYPE_4
OJ2Z140_5	PREV WAVE OLD PENSION TYPE_5
OJ2Z140_6	PREV WAVE OLD PENSION TYPE_6
OJ2Z140_7	PREV WAVE OLD PENSION TYPE_7
OJ2Z140_8	PREV WAVE OLD PENSION TYPE_8
OJ2Z140_9	PREV WAVE OLD PENSION TYPE_9

## **Section G: Health Insurance**

<b>Covered by federal government health insurance program</b>
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Wave	Variable	Label	Type
1	R1HIGOV	R1HIGOV:W1 R is covered by Gov plan	Categ
2	R2HIGOV	R2HIGOV:W2 R is covered by Gov plan	Categ
3	R3HIGOV	R3HIGOV:W3 R is covered by Gov plan	Categ
4	R4HIGOV	R4HIGOV:W4 R is covered by Gov plan	Categ
5	R5HIGOV	R5HIGOV:W5 R is covered by Gov plan	Categ
6	R6HIGOV	R6HIGOV:W6 R is covered by Gov plan	Categ
7	R7HIGOV	R7HIGOV:W7 R is covered by Gov plan	Categ
8	R8HIGOV	R8HIGOV:W8 R is covered by Gov plan	Categ
9	R9HIGOV	R9HIGOV:W9 R is covered by Gov plan	Categ
10	R10HIGOV	R10HIGOV:W10 R is covered by Gov plan	Categ
11	R11HIGOV	R11HIGOV:W11 R is covered by Gov plan	Categ
12	R12HIGOV	R12HIGOV:W12 R is covered by Gov plan	Categ
1	S1HIGOV	S1HIGOV:W1 S is covered by Gov plan	Categ
2	S2HIGOV	S2HIGOV:W2 S is covered by Gov plan	Categ
3	S3HIGOV	S3HIGOV:W3 S is covered by Gov plan	Categ
4	S4HIGOV	S4HIGOV:W4 S is covered by Gov plan	Categ
5	S5HIGOV	S5HIGOV:W5 S is covered by Gov plan	Categ
6	S6HIGOV	S6HIGOV:W6 S is covered by Gov plan	Categ
7	S7HIGOV	S7HIGOV:W7 S is covered by Gov plan	Categ
8	S8HIGOV	S8HIGOV:W8 S is covered by Gov plan	Categ
9	S9HIGOV	S9HIGOV:W9 S is covered by Gov plan	Categ
10	S10HIGOV	S10HIGOV:W10 S is covered by Gov plan	Categ
11	S11HIGOV	S11HIGOV:W11 S is covered by Gov plan	Categ
12	S12HIGOV	S12HIGOV:W12 S is covered by Gov plan	Categ
1	R1GOVMR	R1GOVMR:W1 R has Gov plan-Medicare	Categ
2	R2GOVMR	R2GOVMR:W2 R has Gov plan-Medicare	Categ
3	R3GOVMR	R3GOVMR:W3 R has Gov plan-Medicare	Categ
4	R4GOVMR	R4GOVMR:W4 R has Gov plan-Medicare	Categ
5	R5GOVMR	R5GOVMR:W5 R has Gov plan-Medicare	Categ
6	R6GOVMR	R6GOVMR:W6 R has Gov plan-Medicare	Categ
7	R7GOVMR	R7GOVMR:W7 R has Gov plan-Medicare	Categ
8	R8GOVMR	R8GOVMR:W8 R has Gov plan-Medicare	Categ
9	R9GOVMR	R9GOVMR:W9 R has Gov plan-Medicare	Categ
10	R10GOVMR	R10GOVMR:W10 R has Gov plan-Medicare	Categ
11	R11GOVMR	R11GOVMR:W11 R has Gov plan-Medicare	Categ
12	R12GOVMR	R12GOVMR:W12 R has Gov plan-Medicare	Categ
1	S1GOVMR	S1GOVMR:W1 S has Gov plan-Medicare	Categ
2	S2GOVMR	S2GOVMR:W2 S has Gov plan-Medicare	Categ
3	S3GOVMR	S3GOVMR:W3 S has Gov plan-Medicare	Categ
4	S4GOVMR	S4GOVMR:W4 S has Gov plan-Medicare	Categ
5	S5GOVMR	S5GOVMR:W5 S has Gov plan-Medicare	Categ
6	S6GOVMR	S6GOVMR:W6 S has Gov plan-Medicare	Categ
7	S7GOVMR	S7GOVMR:W7 S has Gov plan-Medicare	Categ
8	S8GOVMR	S8GOVMR:W8 S has Gov plan-Medicare	Categ
9	S9GOVMR	S9GOVMR:W9 S has Gov plan-Medicare	Categ
10	S10GOVMR	S10GOVMR:W10 S has Gov plan-Medicare	Categ
11	S11GOVMR	S11GOVMR:W11 S has Gov plan-Medicare	Categ
12	S12GOVMR	S12GOVMR:W12 S has Gov plan-Medicare	Categ
1	R1GOVMD	R1GOVMD:W1 R has Gov plan-Medicaid	Categ
2	R2GOVMD	R2GOVMD:W2 R has Gov plan-Medicaid	Categ
3	R3GOVMD	R3GOVMD:W3 R has Gov plan-Medicaid	Categ
4	R4GOVMD	R4GOVMD:W4 R has Gov plan-Medicaid	Categ
5	R5GOVMD	R5GOVMD:W5 R has Gov plan-Medicaid	Categ
6	R6GOVMD	R6GOVMD:W6 R has Gov plan-Medicaid	Categ
7	R7GOVMD	R7GOVMD:W7 R has Gov plan-Medicaid	Categ
8	R8GOVMD	R8GOVMD:W8 R has Gov plan-Medicaid	Categ
9	R9GOVMD	R9GOVMD:W9 R has Gov plan-Medicaid	Categ
10	R10GOVMD	R10GOVMD:W10 R has Gov plan-Medicaid	Categ
11	R11GOVMD	R11GOVMD:W11 R has Gov plan-Medicaid	Categ
12	R12GOVMD	R12GOVMD:W12 R has Gov plan-Medicaid	Categ
1	S1GOVMD	S1GOVMD:W1 S has Gov plan-Medicaid	Categ

2	S2GOVMD	S2GOVMD:W2	S has Gov plan-Medicaid	Categ
3	S3GOVMD	S3GOVMD:W3	S has Gov plan-Medicaid	Categ
4	S4GOVMD	S4GOVMD:W4	S has Gov plan-Medicaid	Categ
5	S5GOVMD	S5GOVMD:W5	S has Gov plan-Medicaid	Categ
6	S6GOVMD	S6GOVMD:W6	S has Gov plan-Medicaid	Categ
7	S7GOVMD	S7GOVMD:W7	S has Gov plan-Medicaid	Categ
8	S8GOVMD	S8GOVMD:W8	S has Gov plan-Medicaid	Categ
9	S9GOVMD	S9GOVMD:W9	S has Gov plan-Medicaid	Categ
10	S10GOVMD	S10GOVMD:W10	S has Gov plan-Medicaid	Categ
11	S11GOVMD	S11GOVMD:W11	S has Gov plan-Medicaid	Categ
12	S12GOVMD	S12GOVMD:W12	S has Gov plan-Medicaid	Categ
1	R1GOVVA	R1GOVVA:W1	R has Gov plan-Champus/VA	Categ
2	R2GOVVA	R2GOVVA:W2	R has Gov plan-Champus/VA	Categ
3	R3GOVVA	R3GOVVA:W3	R has Gov plan-Champus/VA	Categ
4	R4GOVVA	R4GOVVA:W4	R has Gov plan-Champus/VA	Categ
5	R5GOVVA	R5GOVVA:W5	R has Gov plan-Champus/VA	Categ
6	R6GOVVA	R6GOVVA:W6	R has Gov plan-Champus/VA	Categ
7	R7GOVVA	R7GOVVA:W7	R has Gov plan-Champus/VA	Categ
8	R8GOVVA	R8GOVVA:W8	R has Gov plan-Champus/VA	Categ
9	R9GOVVA	R9GOVVA:W9	R has Gov plan-Champus/VA	Categ
10	R10GOVVA	R10GOVVA:W10	R has Gov plan-Champus/VA	Categ
11	R11GOVVA	R11GOVVA:W11	R has Gov plan-Champus/VA	Categ
12	R12GOVVA	R12GOVVA:W12	R has Gov plan-Champus/VA	Categ
1	S1GOVVA	S1GOVVA:W1	S has Gov plan-Champus/VA	Categ
2	S2GOVVA	S2GOVVA:W2	S has Gov plan-Champus/VA	Categ
3	S3GOVVA	S3GOVVA:W3	S has Gov plan-Champus/VA	Categ
4	S4GOVVA	S4GOVVA:W4	S has Gov plan-Champus/VA	Categ
5	S5GOVVA	S5GOVVA:W5	S has Gov plan-Champus/VA	Categ
6	S6GOVVA	S6GOVVA:W6	S has Gov plan-Champus/VA	Categ
7	S7GOVVA	S7GOVVA:W7	S has Gov plan-Champus/VA	Categ
8	S8GOVVA	S8GOVVA:W8	S has Gov plan-Champus/VA	Categ
9	S9GOVVA	S9GOVVA:W9	S has Gov plan-Champus/VA	Categ
10	S10GOVVA	S10GOVVA:W10	S has Gov plan-Champus/VA	Categ
11	S11GOVVA	S11GOVVA:W11	S has Gov plan-Champus/VA	Categ
12	S12GOVVA	S12GOVVA:W12	S has Gov plan-Champus/VA	Categ
1	R1GOVOT	R1GOVOT:W1	R has Gov plan-Other	Categ
2	R2GOVOT	R2GOVOT:W2	R has Gov plan-Other	Categ
3	R3GOVOT	R3GOVOT:W3	R has Gov plan-Other	Categ
1	S1GOVOT	S1GOVOT:W1	S has Gov plan-Other	Categ
2	S2GOVOT	S2GOVOT:W2	S has Gov plan-Other	Categ
3	S3GOVOT	S3GOVOT:W3	S has Gov plan-Other	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIGOV	12445	0.16	0.37	0.0	1.0
R2HIGOV	19587	0.52	0.50	0.0	1.0
R3HIGOV	17912	0.54	0.50	0.0	1.0
R4HIGOV	21274	0.56	0.50	0.0	1.0
R5HIGOV	19492	0.60	0.49	0.0	1.0
R6HIGOV	18118	0.66	0.47	0.0	1.0
R7HIGOV	20052	0.61	0.49	0.0	1.0
R8HIGOV	18417	0.66	0.47	0.0	1.0
R9HIGOV	17154	0.70	0.46	0.0	1.0
R10HIGOV	21679	0.58	0.49	0.0	1.0
R11HIGOV	20415	0.60	0.49	0.0	1.0
R12HIGOV	18597	0.65	0.48	0.0	1.0
S1HIGOV	10132	0.15	0.35	0.0	1.0
S2HIGOV	13069	0.44	0.50	0.0	1.0

S3HIGOV	11886	0.47	0.50	0.0	1.0
S4HIGOV	13945	0.49	0.50	0.0	1.0
S5HIGOV	12703	0.53	0.50	0.0	1.0
S6HIGOV	11615	0.59	0.49	0.0	1.0
S7HIGOV	12939	0.54	0.50	0.0	1.0
S8HIGOV	11717	0.59	0.49	0.0	1.0
S9HIGOV	10618	0.63	0.48	0.0	1.0
S10HIGOV	13322	0.52	0.50	0.0	1.0
S11HIGOV	12429	0.54	0.50	0.0	1.0
S12HIGOV	10965	0.58	0.49	0.0	1.0
R1GOVMR	12441	0.08	0.27	0.0	1.0
R2GOVMR	19583	0.46	0.50	0.0	1.0
R3GOVMR	17919	0.49	0.50	0.0	1.0
R4GOVMR	21277	0.52	0.50	0.0	1.0
R5GOVMR	19486	0.57	0.50	0.0	1.0
R6GOVMR	18115	0.62	0.48	0.0	1.0
R7GOVMR	20061	0.57	0.49	0.0	1.0
R8GOVMR	18420	0.63	0.48	0.0	1.0
R9GOVMR	17156	0.67	0.47	0.0	1.0
R10GOVMR	21681	0.53	0.50	0.0	1.0
R11GOVMR	20421	0.56	0.50	0.0	1.0
R12GOVMR	18605	0.59	0.49	0.0	1.0
S1GOVMR	10130	0.08	0.27	0.0	1.0
S2GOVMR	13070	0.38	0.49	0.0	1.0
S3GOVMR	11891	0.42	0.49	0.0	1.0
S4GOVMR	13947	0.46	0.50	0.0	1.0
S5GOVMR	12703	0.50	0.50	0.0	1.0
S6GOVMR	11615	0.55	0.50	0.0	1.0
S7GOVMR	12947	0.51	0.50	0.0	1.0
S8GOVMR	11719	0.56	0.50	0.0	1.0
S9GOVMR	10620	0.61	0.49	0.0	1.0
S10GOVMR	13328	0.48	0.50	0.0	1.0
S11GOVMR	12431	0.50	0.50	0.0	1.0
S12GOVMR	10969	0.53	0.50	0.0	1.0
R1GOVMD	12441	0.04	0.20	0.0	1.0
R2GOVMD	19548	0.07	0.26	0.0	1.0
R3GOVMD	17850	0.08	0.27	0.0	1.0
R4GOVMD	21238	0.08	0.27	0.0	1.0
R5GOVMD	19473	0.08	0.27	0.0	1.0
R6GOVMD	18065	0.08	0.28	0.0	1.0
R7GOVMD	20006	0.09	0.28	0.0	1.0
R8GOVMD	18340	0.08	0.27	0.0	1.0
R9GOVMD	17061	0.09	0.29	0.0	1.0
R10GOVMD	21559	0.10	0.30	0.0	1.0
R11GOVMD	20327	0.10	0.30	0.0	1.0
R12GOVMD	18501	0.12	0.32	0.0	1.0
S1GOVMD	10130	0.02	0.14	0.0	1.0
S2GOVMD	13056	0.04	0.19	0.0	1.0
S3GOVMD	11871	0.04	0.19	0.0	1.0
S4GOVMD	13931	0.04	0.19	0.0	1.0
S5GOVMD	12700	0.04	0.20	0.0	1.0
S6GOVMD	11599	0.04	0.20	0.0	1.0
S7GOVMD	12931	0.04	0.20	0.0	1.0
S8GOVMD	11690	0.04	0.20	0.0	1.0
S9GOVMD	10604	0.05	0.21	0.0	1.0

S10GOVMD	13284	0.06	0.23	0.0	1.0
S11GOVMD	12410	0.06	0.24	0.0	1.0
S12GOVMD	10945	0.08	0.26	0.0	1.0
R1GOVVA	12442	0.05	0.22	0.0	1.0
R2GOVVA	19482	0.04	0.19	0.0	1.0
R3GOVVA	17888	0.03	0.18	0.0	1.0
R4GOVVA	21294	0.03	0.17	0.0	1.0
R5GOVVA	19507	0.03	0.16	0.0	1.0
R6GOVVA	18118	0.05	0.22	0.0	1.0
R7GOVVA	20071	0.05	0.22	0.0	1.0
R8GOVVA	18410	0.05	0.23	0.0	1.0
R9GOVVA	17164	0.05	0.23	0.0	1.0
R10GOVVA	21723	0.06	0.23	0.0	1.0
R11GOVVA	20447	0.05	0.23	0.0	1.0
R12GOVVA	18637	0.06	0.23	0.0	1.0
S1GOVVA	10130	0.05	0.22	0.0	1.0
S2GOVVA	13014	0.05	0.21	0.0	1.0
S3GOVVA	11884	0.04	0.20	0.0	1.0
S4GOVVA	13951	0.03	0.18	0.0	1.0
S5GOVVA	12707	0.03	0.18	0.0	1.0
S6GOVVA	11613	0.06	0.24	0.0	1.0
S7GOVVA	12952	0.06	0.23	0.0	1.0
S8GOVVA	11718	0.06	0.24	0.0	1.0
S9GOVVA	10628	0.06	0.24	0.0	1.0
S10GOVVA	13347	0.06	0.24	0.0	1.0
S11GOVVA	12451	0.06	0.23	0.0	1.0
S12GOVVA	10983	0.06	0.24	0.0	1.0
R1GOVOT	12428	0.00	0.06	0.0	1.0
R2GOVOT	19482	0.01	0.10	0.0	1.0
R3GOVOT	6986	0.02	0.16	0.0	1.0
S1GOVOT	10127	0.00	0.06	0.0	1.0
S2GOVOT	13014	0.01	0.10	0.0	1.0
S3GOVOT	3597	0.03	0.16	0.0	1.0

## Categorical Variable Codes

Value	R1HIGOV	R2HIGOV	R3HIGOV	R4HIGOV	R5HIGOV	R6HIGOV	R7HIGOV
.D=DK/NA	112	18	12	29	28	24	48
.M=Oth missing	95	29	58	69	49	13	17
.R=RF		8	9	12	10	10	12
0.No	10452	9423	8228	9277	7716	6200	7836
1.Yes	1993	10164	9684	11997	11776	11918	12216

Value	R8HIGOV	R9HIGOV	R10HIGOV	R11HIGOV	R12HIGOV
.D=DK/NA	33	40	78	74	85
.M=Oth missing	14	16	248	48	47
.R=RF	5	7	29	17	18
0.No	6237	5188	9039	8112	6580
1.Yes	12180	11966	12640	12303	12017

Value	S1HIGOV	S2HIGOV	S3HIGOV	S4HIGOV	S5HIGOV	S6HIGOV	S7HIGOV
.D=DK/NA	52	6	10	11	11	10	21
.M=Oth missing	95	8	17	16	10	5	2
.R=RF		5	2	6	6	9	10
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.No	8651	7321	6356	7095	5975	4796	5925
1.Yes	1481	5748	5530	6850	6728	6819	7014

Value	S8HIGOV	S9HIGOV	S10HIGOV	S11HIGOV	S12HIGOV
.D=DK/NA	13	20	35	42	41
.M=Oth missing	3	4	141	11	15
.R=RF	2	4	15	6	6
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	4763	3886	6337	5708	4588
1.Yes	6954	6732	6985	6721	6377

Value	R1GOVMR	R2GOVMR	R3GOVMR	R4GOVMR	R5GOVMR	R6GOVMR	R7GOVMR
.D=DK/NA	116	21	11	27	34	27	41
.M=Oth missing	95	29	52	69	49	13	17
.R=RF		9	9	11	10	10	10
0.No	11489	10572	9088	10161	8401	6816	8584
1.Yes	952	9011	8831	11116	11085	11299	11477

Value	R8GOVMR	R9GOVMR	R10GOVMR	R11GOVMR	R12GOVMR
.D=DK/NA	32	38	79	67	80
.M=Oth missing	13	16	248	48	47
.R=RF	4	7	26	18	15
0.No	6845	5686	10141	9070	7637
1.Yes	11575	11470	11540	11351	10968

Value	S1GOVMR	S2GOVMR	S3GOVMR	S4GOVMR	S5GOVMR	S6GOVMR	S7GOVMR
.D=DK/NA	54	5	8	9	11	11	15
.M=Oth missing	95	8	14	16	10	5	2
.R=RF		5	2	6	6	8	8
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.No	9339	8060	6887	7601	6377	5169	6342
1.Yes	791	5010	5004	6346	6326	6446	6605

Value	S8GOVMR	S9GOVMR	S10GOVMR	S11GOVMR	S12GOVMR
.D=DK/NA	12	18	30	39	38
.M=Oth missing	3	4	141	11	15
.R=RF	1	4	14	7	5
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	5112	4154	6906	6199	5150
1.Yes	6607	6466	6422	6232	5819

Value	R1GOVMD	R2GOVMD	R3GOVMD	R4GOVMD	R5GOVMD	R6GOVMD	R7GOVMD
.D=DK/NA	116	8	51	64	48	69	97
.M=Oth missing	95	78	79	69	49	14	17
.R=RF		8	11	13	9	17	9
0.No	11947	18156	16458	19581	17897	16548	18267
1.Yes	494	1392	1392	1657	1576	1517	1739

Value	R8GOVMD	R9GOVMD	R10GOVMD	R11GOVMD	R12GOVMD
.D=DK/NA	109	134	198	156	182
.M=Oth missing	15	16	248	48	47
.R=RF	5	6	29	23	17
0.No	16833	15538	19411	18237	16314
1.Yes	1507	1523	2148	2090	2187

Value	S1GOVMD	S2GOVMD	S3GOVMD	S4GOVMD	S5GOVMD	S6GOVMD	S7GOVMD
.D=DK/NA	54	4	17	24	14	23	31
.M=Oth missing	95	23	24	16	10	5	2
.R=RF		5	3	7	6	12	8
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.No	9926	12588	11413	13393	12182	11091	12367
1.Yes	204	468	458	538	518	508	564

Value	S8GOVMD	S9GOVMD	S10GOVMD	S11GOVMD	S12GOVMD
.D=DK/NA	40	34	74	59	63
.M=Oth missing	3	4	141	11	15
.R=RF	2	4	14	8	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11187	10126	12538	11658	10115
1.Yes	503	478	746	752	830



Value	R1GOVVA	R2GOVVA	R3GOVVA	R4GOVVA	R5GOVVA	R6GOVVA	R7GOVVA
.D=DK/NA	115	60	15	9	17	17	34
.M=Oth missing	95	78	77	69	49	14	17
.R=RF		22	11	12	6	16	7
0.No	11800	18733	17266	20679	18976	17171	19035
1.Yes	642	749	622	615	531	947	1036

Value	R8GOVVA	R9GOVVA	R10GOVVA	R11GOVVA	R12GOVVA
.D=DK/NA	40	32	43	47	52
.M=Oth missing	15	16	248	48	48
.R=RF	4	5	20	12	10
0.No	17406	16220	20502	19331	17549
1.Yes	1004	944	1221	1116	1088

Value	S1GOVVA	S2GOVVA	S3GOVVA	S4GOVVA	S5GOVVA	S6GOVVA	S7GOVVA
.D=DK/NA	54	37	7	5	8	8	12
.M=Oth missing	95	23	22	16	10	5	2
.R=RF		14	2	6	5	13	6
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.No	9591	12412	11395	13482	12304	10928	12222
1.Yes	539	602	489	469	403	685	730

Value	S8GOVVA	S9GOVVA	S10GOVVA	S11GOVVA	S12GOVVA
.D=DK/NA	11	11	14	22	25
.M=Oth missing	3	4	141	11	15
.R=RF	3	3	11	4	4
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	11017	9969	12544	11737	10285
1.Yes	701	659	803	714	698

Value	R1GOVOT	R2GOVOT	R3GOVOT
.D=DK/NA	115	60	12
.M=Oth missing	109	78	25
.Q=Not asked this wv			10964
.R=RF		22	4
0.No	12382	19281	6813
1.Yes	46	201	173

Value	S1GOVOT	S2GOVOT	S3GOVOT
.D=DK/NA	54	37	4
.M=Oth missing	98	23	8
.Q=Not asked this wv			8629
.R=RF		14	
.U=Unmarried	2373	5970	5658
.V=Spouse NR		584	95
0.No	10088	12885	3507
1.Yes	39	129	90

## How Constructed

RwHIGOV indicates whether the Respondent is covered by any government health insurance program. RwGOVMR, RwGOVMD, RwGOVVA and RwGOVOT indicate whether the Respondent is covered by Medicare, Medicaid, VA/CHAMPUS and other government health insurance, respectively. SwHIGOV, SwGOVMR, SwGOVMD, SwGOVVA, SwGOVOT provide the information for the Respondent's spouse or partner.

In Waves 1 and 2H, the question asks if the Respondent (and in Wave 1, the Respondent's spouse) is covered by any government health insurance. RwHIGOV is simply recoded to 0/1 for No/Yes and for missing values from this question. No checks are done on the types of government insurance the Respondent subsequently reports. Please note that some Respondents do not list Medicare, Medicaid, or VA/CHAMPUS as any of the types of government insurance that covers them in these waves. The RwGOVMR, RwGOVMD, RwGOVVA and RwGOVOT are derived from the follow-up questions where the Respondent reports all types of government health insurance programs under which s/he is covered.

In Wave 2A and from Wave 3 forward, separate questions ask about particular kinds of government health insurance. In all these waves, Medicare and Medicaid are asked about separately. In Waves 2A and 3A, another question asks about other government insurance, including CHAMPUS and CHAMP-VA. In Wave 3H and from Wave 4 forward, only CHAMPUS / CHAMP-VA, and, in 2002, TRI-CARE, are mentioned. The RwGOVMR, RwGOVMD, RwGOVVA and RwGOVOT are derived from these questions. In Wave 3H, R3GOVOT is set to .Q since the information is not obtained, and from Wave 4 forward, RwGOVOT is not available. If the Respondent indicates that s/he is currently covered by any of these types of insurance, then RwHIGOV is set to yes (=1). If the Respondent responds no to current coverage by all of these types of insurance, then RwHIGOV is set to no (=0). Otherwise, RwHIGOV is set to a missing value based on missing values in the HRS variables. Note that coverage by R6GOVVA increases more than expected for a consistently coded measure. This may be because a) TRI-CARE was not included in the question wording prior to 2002; and b) retired military 65 and over and covered by Medicare were not eligible for TRI-CARE prior to 2001.

S1HIGOV, S1GOVMR, S1GOVMD, S1GOVVA and S1GOVOT for Wave 1 are taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1HIGOV, S1GOVMR, S1GOVMD, S1GOVVA and S1GOVOT are the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1HIGOV, S1GOVMR, S1GOVMD, S1GOVVA and S1GOVOT are the Financial Respondent's information.

From Wave 2 on, this information is taken from the spouse's self-reported RwHIGOV, RwGOVMR, RwGOVMD, RwGOVVA and RwGOVOT variable, if available. If the Respondent is not married, SwHIGOV, SwGOVMR, SwGOVMD, SwGOVVA and SwGOVOT are set to .U=unmarried. If the Respondent's spouse did not respond then these are set to .V=Spouse is non-response.

## Cross Wave Differences in Original HRS Data

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Waves 1 and 2H, the government insurance questions begin by asking: "Are you currently covered by any federal government health insurance programs, such as Medicare, Medicaid, or CHAMPUS, VA, or other military programs?" A subsequent question asks: "Which program is that?" and multiple answers are allowed. Separate variables code responses of Medicare, Medicaid, VA/Champus, and Other (including Bureau of Indian Affairs). In Wave 2H responses also include mail handlers insurance, federal employees health insurance, Blue Cross/Blue Shield, local or state government health plan, and HMO. Up to four responses are reported.

In Wave 2A and from Wave 3 forward, questions are asked separately about Medicare, Medicaid, and CHAMPUS/CHAMP-VA or other government health insurance coverage, with a few variations. In all of these waves the Medicare question is: "Are you currently covered by Medicare health insurance?"

In Wave 2A the Medicaid question is: "Is your health care currently covered by Medicaid?" From Wave 3 forward, the Medicaid questions are: 1) "Have you been covered by Medicaid health insurance at any time (since previous wave interview/in last 2 years)?" and if yes, 2) "Are you currently covered by Medicaid?"

In Waves 2A and 3A, the CHAMPUS and other government health insurance questions are: 1) "Are you currently covered by any other government health insurance programs, such as Railroad Retirement, CHAMPUS, CHAMP-VA, or any other military health programs?" and if yes, 2) "Which program is that?"

In Waves 3H, 4 and 5, the question is: "Are you currently covered by CHAMPUS, CHAMP-VA, or any other military health care plan?" In Wave 6, a new name called TRI\_CARE is added that includes what used to be known as CHAMPUS and CHAMP-VA. The question is: "Are you currently covered by TRI\_CARE, CHAMPUS, CHAMP-VA or any other military health care plan?" Prior to Wave 6, TRICARE, which replaces CHAMPUS for active and retired military, and is separate from CHAMP-VA, was not included in the question wording. There were also restrictions on coverage by TRICARE when over 65 and covered by Medicare until 2001.

## HRS Variables Used

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HRS 1992:
V6602          R2:R:FEDRL HLTH INS PRGM
V6603          R2aA:R:GOVT:MEDICARE
V6604          R2aB:R:GOVT:MEDICAID
V6605          R2aC:R:GOVT:VA/CHAMPUS
V6606          R2aD:R:GOVT:OTHER

AHEAD 1993:
B1838          R2. R MEDICAID: COVERED
B1848          R4. R OTHER GOVT INSURANCE: ANY
B1849          R5. R OTHER GOVT INSURANCE: TYPE
B754           E31a. R COVERED BY MEDICARE

HRS 1994:
W6700          R1.COVERED FED GOVT HEAL
W6701          R1a.WHICH PROGRAM
W6702          R1a.WHICH PROGRAM
W6703          R1a.WHICH PROGRAM
W6704          R1a.WHICH PROGRAM

AHEAD 1995:
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D126	W1 MEDICARE COVER
D5144	R1. MEDICARE COVER
D5155	R2.MEDICAID
D5158	R4. CURRENTLY ON MEDICAID
D5175	R5.OTHER GOVT INS
D5176	R5A. TYPE OTH GVT INS
HRS 1996:	
E5133	R1.MEDICARE COVERAGE
E5135	R4.MEDICAID SINCE PREV WAVE?
E5136	R5.CURRENTLY COVERED BY MEDICAID
E5145	R9.CHAMPUS/CHAMPVA COVERAGE
HRS 1998:	
F5866	R1.MEDICARE COVERAGE
F5868	R4.MEDICAID SINCE PREV WAVE?
F5869	R5.CURRENTLY COVERED BY MEDICAID
F5878	R9.CHAMPUS/CHAMPVA COVERAGE
HRS 2000:	
G6238	R1.MEDICARE COVERAGE
G6241	R4.MEDICAID SINCE PREV WAVE?
G6242	R5.CURRENTLY COVERED BY MEDICAID
G6251	R9.CHAMPUS/CHAMPVA COVERAGE
HRS 2002:	
HN001	MEDICARE COVERAGE
HN005	MEDICAID COVERAGE SINCE PREV WAVE
HN006	CURRENTLY COVERED BY MEDICAID
HN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2004:	
JN001	MEDICARE COVERAGE
JN005	MEDICAID COVERAGE SINCE PREV WAVE
JN006	CURRENTLY COVERED BY MEDICAID
JN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2006:	
KN001	MEDICARE COVERAGE
KN005	MEDICAID COVERAGE SINCE PREV WAVE
KN006	CURRENTLY COVERED BY MEDICAID
KN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2008:	
LN001	MEDICARE COVERAGE
LN005	MEDICAID COVERAGE SINCE PREV WAVE
LN006	CURRENTLY COVERED BY MEDICAID
LN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2010:	
MN001	MEDICARE COVERAGE
MN005	MEDICAID COVERAGE SINCE PREV WAVE
MN006	CURRENTLY COVERED BY MEDICAID
MN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2012:	
NN001	MEDICARE COVERAGE
NN005	MEDICAID COVERAGE SINCE PREV WAVE
NN006	CURRENTLY COVERED BY MEDICAID
NN007	CHAMPUS/CHAMPVA COVERAGE
HRS 2014:	
ON001	MEDICARE COVERAGE
ON005	MEDICAID COVERAGE SINCE PREV WAVE
ON006	CURRENTLY COVERED BY MEDICAID
ON007	CHAMPUS/CHAMPVA COVERAGE
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT

<b>Medicare/Medicaid HMO monthly premium</b>
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Wave	Variable	Label	Type
3	R3MRPREM	R3MRPREM:W3 Medicare/Medicaid HMO Monthly Premium	Cont
4	R4MRPREM	R4MRPREM:W4 Medicare/Medicaid HMO Monthly Premium	Cont
5	R5MRPREM	R5MRPREM:W5 Medicare/Medicaid HMO Monthly Premium	Cont
6	R6MRPREM	R6MRPREM:W6 Medicare/Medicaid HMO Monthly Premium	Cont
7	R7MRPREM	R7MRPREM:W7 Medicare/Medicaid HMO Monthly Premium	Cont
8	R8MRPREM	R8MRPREM:W8 Medicare/Medicaid HMO Monthly Premium	Cont
9	R9MRPREM	R9MRPREM:W9 Medicare/Medicaid HMO Monthly Premium	Cont
10	R10MRPREM	R10MRPREM:W10 Medicare/Medicaid HMO Monthly Premium	Cont
11	R11MRPREM	R11MRPREM:W11 Medicare/Medicaid HMO Monthly Premium	Cont
12	R12MRPREM	R12MRPREM:W12 Medicare/Medicaid HMO Monthly Premium	Cont
3	S3MRPREM	S3MRPREM:W3 Medicare/Medicaid HMO Monthly Premium	Cont
4	S4MRPREM	S4MRPREM:W4 Medicare/Medicaid HMO Monthly Premium	Cont
5	S5MRPREM	S5MRPREM:W5 Medicare/Medicaid HMO Monthly Premium	Cont
6	S6MRPREM	S6MRPREM:W6 Medicare/Medicaid HMO Monthly Premium	Cont
7	S7MRPREM	S7MRPREM:W7 Medicare/Medicaid HMO Monthly Premium	Cont
8	S8MRPREM	S8MRPREM:W8 Medicare/Medicaid HMO Monthly Premium	Cont
9	S9MRPREM	S9MRPREM:W9 Medicare/Medicaid HMO Monthly Premium	Cont
10	S10MRPREM	S10MRPREM:W10 Medicare/Medicaid HMO Monthly Premium	Cont
11	S11MRPREM	S11MRPREM:W11 Medicare/Medicaid HMO Monthly Premium	Cont
12	S12MRPREM	S12MRPREM:W12 Medicare/Medicaid HMO Monthly Premium	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3MRPREM	1149	35.74	53.30	0.0	483.0
R4MRPREM	2232	20.61	103.04	0.0	4444.0
R5MRPREM	2312	26.78	49.41	0.0	949.0
R6MRPREM	6041	26.33	64.21	0.0	988.0
R7MRPREM	1961	45.73	70.59	0.0	600.0
R8MRPREM	2011	51.33	85.16	0.0	802.0
R9MRPREM	2330	52.20	93.65	0.0	1800.0
R10MRPREM	3092	26.11	64.66	0.0	861.0
R11MRPREM	213	6.54	32.09	0.0	231.0
R12MRPREM	3201	57.96	87.99	0.0	1500.0
S3MRPREM	731	39.56	59.34	0.0	483.0
S4MRPREM	1380	23.39	126.76	0.0	4444.0
S5MRPREM	1387	28.95	51.48	0.0	949.0
S6MRPREM	3533	29.08	70.82	0.0	988.0
S7MRPREM	1179	49.78	75.29	0.0	600.0
S8MRPREM	1222	58.15	93.27	0.0	802.0
S9MRPREM	1349	59.72	107.44	0.0	1800.0
S10MRPREM	1702	30.57	72.41	0.0	861.0
S11MRPREM	94	2.91	24.19	0.0	231.0
S12MRPREM	1702	66.09	93.52	0.0	1500.0

## How Constructed

RwMRPREM indicates the amount in nominal dollars that the Respondent pays monthly for a Medicare/Medicaid HMO insurance plan. SwMRPREM provides the information for the Respondent's spouse or partner.

The Respondent is asked, "Are you currently covered by Medicare health insurance?" and is later asked, "Are you currently covered by (Medicaid/State name for Medicaid)?" If a Respondent indicates having coverage provided through either Medicare or Medicaid, a follow-up question asks if her/his Medicare/Medicaid is provided through an HMO: "Do you receive your [Medicare/Medicaid/State name for MEDICAID] benefits through [an HMO/a Medicare Advantage Plan, sometimes called a Medicare HMO], that is a Health Maintenance Organization?"

If the Respondent says that her/his Medicare/Medicaid coverage is provided through an HMO, s/he is asked, "How much do you, yourself, pay in premiums for this plan?"

The Respondent reports the amount paid as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are converted to monthly amounts.

If the Respondent does not report having Medicare/Medicaid through an HMO, then RwMRPREM is set to .N to indicate no HMO Medicare/Medicaid health insurance plan.

In Wave 11, due to a survey instrument glitch, only individuals covered by Medicaid and not Medicare were asked the premium questions. This results in a large number of .M=missing values for Wave 11.

## Cross Wave Differences in Original HRS Data

The questions on premium amounts are not asked in Waves 1 and 2.

The wording in the question asking for premium amounts varies by wave. In Wave 3A the question asks, "About how much are your premiums for this plan?"

In Wave 3H the premium amount question is worded as, "Not including deductions from your Social Security, how much do you pay for this plan?" In Waves 4 to 9, the premium amount question asks, "Not including co-pays or deductions from your Social Security, how much do you, yourself, pay for this plan?"

In Wave 10, Respondents are first asked the method used to pay their premiums. The question asks, "Some people who have Medicare Advantage pay for their coverage with a deduction from their Social Security checks. Some pay directly to the insurance company. How do you pay for yours?" If the Respondent indicates that payment is paid directly, s/he is asked the general premium amount questions (see below). If the Respondent indicates that payment deducted from Social Security or that s/he pays nothing, R10MRPREM is set to 0. Note that there is a follow up question asking amount deducted from Social Security if the Respondent indicates payment through deductions. However, to keep the variable consistent with other waves, this value is not included in R10MRPREM.

Beginning in Wave 10, the premium amount question varies depending on if the individual is covered by Medicare or Medicaid. If the Respondent is covered by a Medicare HMO/Medicare Advantage, the wording is, "How much do you, yourself, pay in premiums for this plan?" If the Respondent is not covered by Medicare, the question asks, "Not including co-pays or deductions from your Social Security, how much do you, yourself, pay for this plan?"

In Wave 11, due to a survey instrument glitch, only individuals covered by Medicaid and not Medicare were asked the premium questions. This results in a large number of .M=missing values for Wave 11.

**HRS Variables Used**

## AHEAD 1995:

D5144 R1. MEDICARE COVER  
 D5183 R7. MEDICARE/RR HMO  
 D5193 R7E. HOW MUCH R PAY MEDICARE HMO  
 D5194 R7F. PER R7E.

## HRS 1996:

E5133 R1.MEDICARE COVERAGE  
 E5148 R11.MEDICARE/MEDICAID THROUGH HMO  
 E5152 R11B.AMOUNT PAY FOR PLAN  
 E5153 R11B.AMOUNT PAY FOR PLAN PER

## HRS 1998:

F5866 R1.MEDICARE COVERAGE  
 F5881 R11.MEDICARE/MEDICAID THROUGH HMO  
 F5885 R11B.AMOUNT PAY FOR PLAN  
 F5886 R11B.AMOUNT PAY FOR PLAN-PER

## HRS 2000:

G6238 R1.MEDICARE COVERAGE  
 G6254 R11.MEDICARE/MEDICAID THROUGH HMO  
 G6258 R11B.AMOUNT PAY FOR PLAN  
 G6259 R11Y1B.PER

## HRS 2008:

LN001 MEDICARE COVERAGE  
 LN006 CURRENTLY COVERED BY MEDICAID  
 LN009 MEDICARE/MEDICAID HMO  
 LN014 MEDICARE/MEDICAID HMO-AMT PAY  
 LN018 MEDICARE/MEDICAID HMO-AMT PAY - PER

## HRS 2010:

MN001 MEDICARE COVERAGE  
 MN006 CURRENTLY COVERED BY MEDICAID  
 MN009 MEDICARE/MEDICAID HMO  
 MN014 MEDICARE/MEDICAID HMO-AMT PAY  
 MN018 MEDICARE/MEDICAID HMO-AMT PAY - PER  
 MN265 MA - SS DEDUCTION

## HRS 2012:

NN001 MEDICARE COVERAGE  
 NN006 CURRENTLY COVERED BY MEDICAID  
 NN009 MEDICARE/MEDICAID HMO  
 NN014 MEDICARE/MEDICAID HMO-AMT PAY  
 NN018 MEDICARE/MEDICAID HMO-AMT PAY - PER

## HRS 2014:

ON001 MEDICARE COVERAGE  
 ON006 CURRENTLY COVERED BY MEDICAID  
 ON009 MEDICARE/MEDICAID HMO  
 ON014 MEDICARE/MEDICAID HMO-AMT PAY  
 ON018 MEDICARE/MEDICAID HMO-AMT PAY - PER

<b>Medicare Part D prescription drug insurance monthly premium</b>
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Wave	Variable	Label	Type
8	R8RXPREM	R8RXPREM:W8 Prescription Drug Insurance Monthly Premium	Cont
9	R9RXPREM	R9RXPREM:W9 Prescription Drug Insurance Monthly Premium	Cont
10	R10RXPREM	R10RXPREM:W10 Prescription Drug Insurance Monthly Premium	Cont
11	R11RXPREM	R11RXPREM:W11 Prescription Drug Insurance Monthly Premium	Cont
12	R12RXPREM	R12RXPREM:W12 Prescription Drug Insurance Monthly Premium	Cont
8	S8RXPREM	S8RXPREM:W8 Prescription Drug Insurance Monthly Premium	Cont
9	S9RXPREM	S9RXPREM:W9 Prescription Drug Insurance Monthly Premium	Cont
10	S10RXPREM	S10RXPREM:W10 Prescription Drug Insurance Monthly Premium	Cont
11	S11RXPREM	S11RXPREM:W11 Prescription Drug Insurance Monthly Premium	Cont
12	S12RXPREM	S12RXPREM:W12 Prescription Drug Insurance Monthly Premium	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R8RXPREM	3874	48.17	219.32	0.0	7020.0
R9RXPREM	2078	101.42	465.18	0.0	9650.0
R10RXPREM	2146	111.60	446.17	0.0	9650.0
R11RXPREM	2745	63.90	141.50	0.0	3939.0
R12RXPREM	2720	72.20	229.25	0.0	7000.0
S8RXPREM	2113	52.06	184.20	0.0	3870.0
S9RXPREM	1211	110.02	505.78	0.0	9650.0
S10RXPREM	1218	109.81	421.87	0.0	7180.0
S11RXPREM	1446	72.52	172.24	0.0	3939.0
S12RXPREM	1391	80.08	215.74	0.0	6000.0

### How Constructed

RwRXPREM indicates the amount in nominal dollars that the Respondent pays monthly for a Medicare prescription drug plan. SwRXPREM provides the information for the Respondent's spouse or partner. The question is first asked in Wave 8, shortly after Medicare Part D was established in 2006.

If a Respondent indicates that s/he has Medicare coverage, s/he is first asked to establish whether Medicare coverage is provided through Original Medicare or a Medicare HMO (also referred to as Medicare Part C or Medicare Advantage). If a Respondent indicates that s/he is not covered by a Medicare HMO plan that includes prescription drug coverage, s/he is asked if s/he has registered for Medicare Part D, which covers prescription drugs. If the Respondent indicates participating in a Part D plan, s/he is asked, "How much do you, yourself, pay per month in premiums for this plan?" This amount is coded in RwRXPREM.

If the Respondent indicates that the prescription drug insurance premium is covered through a Medicare HMO or a private plan, RwRXPREM is set to .C. If the Respondent does not have prescription drug coverage through Medicare, RwRXPREM is set to .N.



## Cross Wave Differences in Original HRS Data

The questions about prescription drug coverage premiums are not asked in Waves 1-7.

The questions about prescription drug coverage premiums are first asked in Wave 8, shortly after Medicare Part D was established in 2006. The wording of the question asking Respondents if they have registered for Part D is different in Wave 8. The Respondent is asked, "Beginning in 2006, Part D of Medicare provides coverage for prescription drugs. Did you sign up to receive Medicare prescription drug coverage in 2006?"

Beginning in Wave 9, the question is worded, "Part D of Medicare provides coverage for prescription drugs, usually through a private insurance provider. Are you enrolled in Medicare Part D, also known as the Medicare Prescription Drug Plan?"

In Waves 9 and 10, before establishing premium amounts, Respondents are first asked the method used to pay their premiums. The question asks: "Many Medicare beneficiaries pay the premium for their Medicare drug coverage through their Social Security checks. Some pay directly to the provider. How do you pay for yours?" If the Respondent's premium is deducted from Social Security, a follow-up question asks: "How much is your Social Security deduction per month for your Part D plan?" Otherwise, Respondents are asked the standard premium question, "How much do you, yourself, pay per month in premiums for this plan?"

From Wave 11 forward, Respondents are no longer asked about the method used to pay their premiums. They are simply asked how much they pay in premiums.

## HRS Variables Used

### HRS 2006:

KN351	HMO PAY FOR REGULAR RX DRUGS
KN352	SIGNED UP MEDICARE RX COVERAGE
KN356M1	REASON NOT SIGN UP - 1
KN356M2	REASON NOT SIGN UP - 2
KN356M3	REASON NOT SIGN UP - 3
KN404	AMOUNT PAY FOR MONTHLY PREMIUMS

### HRS 2008:

LN351	HMO PAY FOR REGULAR RX DRUGS
LN352	SIGNED UP MEDICARE PRESCRIPTION COVERAGE
LN356M1	REASON NOT SIGN UP -1
LN356M2	REASON NOT SIGN UP -2
LN356M3	REASON NOT SIGN UP -3
LN404	MONTHLY PREMIUMS
LN417	PRESCRIPTION DRUG COVERAGE
LN423	HOW PAY MEDICARE PREMIUMS
LN424	SS DEDUCTION MONTHLY PREMIUMS

### HRS 2010:

MN351	HMO PAY FOR REGULAR RX DRUGS
MN352	SIGNED UP MEDICARE PRESCRIPTION COVERAGE
MN356M1	REASON NOT SIGN UP -1
MN356M2	REASON NOT SIGN UP -2
MN356M3	REASON NOT SIGN UP -3
MN404	MONTHLY PREMIUMS
MN417	PRESCRIPTION DRUG COVERAGE
MN423	HOW PAY MEDICARE PREMIUMS
MN424	SS DEDUCTION MONTHLY PREMIUMS

### HRS 2012:

NN351	HMO PAY FOR REGULAR RX DRUGS
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NN352	SIGNED UP MEDICARE PRESCRIPTION COVERAGE
NN404	MONTHLY PREMIUMS
NN417	PRESCRIPTION DRUG COVERAGE
HRS 2014:	
ON351	HMO PAY FOR REGULAR RX DRUGS
ON352	SIGNED UP MEDICARE PRESCRIPTION COVERAGE
ON404	MONTHLY PREMIUMS
ON417	PRESCRIPTION DRUG COVERAGE

### Number of private health insurance plans

Wave	Variable	Label	Type
1	R1PRPCNT	R1PRPCNT:W1 Number of Private Insurance Plans	Cont
2	R2PRPCNT	R2PRPCNT:W2 Number of Private Insurance Plans	Cont
3	R3PRPCNT	R3PRPCNT:W3 Number of Private Insurance Plans	Cont
4	R4PRPCNT	R4PRPCNT:W4 Number of Private Insurance Plans	Cont
5	R5PRPCNT	R5PRPCNT:W5 Number of Private Insurance Plans	Cont
6	R6PRPCNT	R6PRPCNT:W6 Number of Private Insurance Plans	Cont
7	R7PRPCNT	R7PRPCNT:W7 Number of Private Insurance Plans	Cont
8	R8PRPCNT	R8PRPCNT:W8 Number of Private Insurance Plans	Cont
9	R9PRPCNT	R9PRPCNT:W9 Number of Private Insurance Plans	Cont
10	R10PRPCNT	R10PRPCNT:W10 Number of Private Insurance Plans	Cont
11	R11PRPCNT	R11PRPCNT:W11 Number of Private Insurance Plans	Cont
12	R12PRPCNT	R12PRPCNT:W12 Number of Private Insurance Plans	Cont
1	S1PRPCNT	S1PRPCNT:W1 Number of Private Insurance Plans	Cont
2	S2PRPCNT	S2PRPCNT:W2 Number of Private Insurance Plans	Cont
3	S3PRPCNT	S3PRPCNT:W3 Number of Private Insurance Plans	Cont
4	S4PRPCNT	S4PRPCNT:W4 Number of Private Insurance Plans	Cont
5	S5PRPCNT	S5PRPCNT:W5 Number of Private Insurance Plans	Cont
6	S6PRPCNT	S6PRPCNT:W6 Number of Private Insurance Plans	Cont
7	S7PRPCNT	S7PRPCNT:W7 Number of Private Insurance Plans	Cont
8	S8PRPCNT	S8PRPCNT:W8 Number of Private Insurance Plans	Cont
9	S9PRPCNT	S9PRPCNT:W9 Number of Private Insurance Plans	Cont
10	S10PRPCNT	S10PRPCNT:W10 Number of Private Insurance Plans	Cont
11	S11PRPCNT	S11PRPCNT:W11 Number of Private Insurance Plans	Cont
12	S12PRPCNT	S12PRPCNT:W12 Number of Private Insurance Plans	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PRPCNT	12557	0.91	0.64	0.0	5.0
R2PRPCNT	19522	0.87	0.59	0.0	6.0
R3PRPCNT	17841	0.79	0.57	0.0	6.0
R4PRPCNT	21270	0.76	0.57	0.0	6.0
R5PRPCNT	19480	0.76	0.59	0.0	7.0
R6PRPCNT	18042	0.74	0.56	0.0	11.0
R7PRPCNT	20018	0.73	0.62	0.0	23.0
R8PRPCNT	18373	0.67	0.57	0.0	12.0
R9PRPCNT	17099	0.62	0.61	0.0	13.0
R10PRPCNT	21599	0.61	0.60	0.0	12.0
R11PRPCNT	20339	0.57	0.59	0.0	11.0
R12PRPCNT	18512	0.57	0.65	0.0	21.0
S1PRPCNT	10184	0.95	0.62	0.0	4.0
S2PRPCNT	13047	0.93	0.55	0.0	5.0
S3PRPCNT	11859	0.85	0.55	0.0	6.0
S4PRPCNT	13942	0.84	0.56	0.0	6.0
S5PRPCNT	12689	0.85	0.58	0.0	5.0
S6PRPCNT	11583	0.81	0.54	0.0	5.0
S7PRPCNT	12929	0.80	0.60	0.0	23.0
S8PRPCNT	11693	0.74	0.56	0.0	12.0
S9PRPCNT	10595	0.70	0.61	0.0	13.0
S10PRPCNT	13301	0.67	0.59	0.0	12.0
S11PRPCNT	12402	0.63	0.59	0.0	11.0
S12PRPCNT	10919	0.64	0.65	0.0	21.0

## General Comments

Private health insurance plans encompass all plans purchased on the private market, including coverage purchased through an employer, the individual insurance marketplaces, a union, or a trade association. Previous versions of the RAND HRS Longitudinal File have included variables that describe private plans solely provided by current or former employers, and these variables are still provided for continuity purposes. RwPRPCNT is similar, but not identical, to RWHENUM. For Waves 1-5, RWHENUM is a count of employer-provided health insurance plans only, whereas RwPRPCNT is a count of all private health insurance plans, except long-term care insurance. From Wave 6 forward, RwPRPCNT and RWHENUM are the same, and both are a count of all private health insurance plans, except long-term care insurance. Please see the Number of employer-provided/private health insurance plans section for a full description of RWHENUM.

## How Constructed

RwPRPCNT is a count of the number of private health insurance plans the Respondent reports. SwPRPCNT provides the information for the Respondent's spouse or partner. This count does not include long-term care insurance.

In Waves 1 to 5, RwPRPCNT is the sum of the answers to questions which ask about different types of private insurance plans (self-employed, employer-provided, supplemental, and those purchased directly from an insurance company or group). The wording of these questions varies by wave and not all waves ask about all types separately.

Beginning in Wave 6, the number of private health insurance plans is asked in one question and RwPRPCNT is simply the number of plans reported by the Respondent.

SwPRPCNT for Wave 1 is taken from the Financial Respondent's information as appropriate. That is, if the Respondent is the Financial Respondent, then S1PRPCNT contains the Financial Respondent's spouse's information. If the Respondent is the spouse of the Financial Respondent, then S1PRPCNT contains the Financial Respondent's information.

From Wave 2 forward, SwPRPCNT is populated using the spouse's self-reported value for RwPRPCNT, where available. If the Respondent is not married, SwPRPCNT is set to .U=unmarried. If the Respondent's spouse did not respond, then SwPRPCNT is set to .V=Spouse is non-response.

## Cross Wave Differences in Original HRS Data

In Wave 1, the health insurance questions are asked only of the Financial Respondent about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 forward, health insurance questions are asked of individual Respondents about their own coverage only.

In Waves 1 to 5, RwPRPCNT is the sum of the answers to questions which individually ask about the different types of private insurance plans (self-employed, employer-provided, supplemental, and those purchased directly from an insurance company or group). The wording of these questions varies by wave and not all waves ask about all types separately.

In Wave 1, if a Financial Respondent indicates that s/he or her/his spouse have employer-provided insurance, s/he is asked how many plans s/he or her/his spouse have.

The Respondent is then asked if s/he or her/his spouse have any other type of private health insurance and to list the types s/he has. The number of plans added from this question is based on the number of types of coverage listed, not including government-sourced plans or long-term care insurance. If a Respondent indicates that s/he has other insurance but does not list a type, this is counted as one private plan.

In Wave 2A, the Respondent is asked about all private plans in one question, "How many different policies do you

have (in addition to Medicare)?" In a separate question, Respondents are asked "What kind of coverage do you have?" Since this list includes long-term care insurance, if a Respondent only lists long-term care insurance as the type of coverage s/he has, then the count is adjusted to "0". Otherwise, the count is the number of policies they list in the private plan question.

In Wave 2H, the Respondent is asked separately about employer-provided insurance, supplemental insurance, and insurance purchased directly from an insurance company or group.

For employer-provided insurance, if the Respondent previously reported having employer-provided health insurance in Wave 1, then a question asks if s/he is still covered by the same plan. If the response is yes, this is counted as one private plan. If the Respondent does not confirm having the same health insurance as in Wave 1, a separate question asks how many employer-provided plans s/he has.

The Respondent is then asked if s/he purchases any coverage directly from an insurance company or organization. If the Respondent says yes, this is counted as one private plan.

Then the Respondent is asked about supplemental insurance. If the Respondent indicates having supplemental insurance, s/he is asked what type of supplemental coverage s/he has. The number of plans added from this question is based on the number of types of supplemental coverage they list, not including government-sourced plans or long-term care insurance. If a Respondent indicates having supplemental insurance but does not list a type, this is counted as one private plan.

In Wave 3A, the Respondent is asked, not including long-term care insurance, Medicare/Medicaid, or government health insurance, "How many other health plans do you currently have?"

In Waves 3H, 4, and 5, the Respondent is asked separately about self-employed insurance, employer-provided insurance, supplemental insurance, and insurance purchased directly from an insurance company or group. In Wave 3H, self-employed individuals are simply asked the employer-provided insurance question.

In Waves 4 and 5, if the Respondent is self-employed, s/he is asked, "You mentioned earlier that you were self-employed. Do you have health insurance through that business that pays hospital bills?" If the Respondent says yes, this is counted as one private plan.

In Wave 3H, all are asked about employer-provided insurance. In Waves 4 and 5, if a Respondent is not self-employed or does not have insurance through her/his own business, then s/he is asked, "(Not including Medicare/(Medicaid/STATE NAME FOR MEDICAID) /CHAMPUS/CHAMP-VA) are you covered by any employer-provided health insurance, through either (a/your or your spouse's/your or your partner's) current or past employer?" and if the Respondent says yes, s/he is asked, "How many different employer-provided health insurance plans are you covered by?"

If a Respondent is covered by Medicare or Medicaid, s/he is asked if s/he has a supplemental plan: "Not counting long-term care insurance or Medicare or any other insurance we've discussed, do you have any additional insurance that pays any part of hospital or doctor bills? Sometimes this is called a Medigap or Medicare Supplement policy." If the Respondent says yes, this is counted as one private plan.

If a Respondent is not covered by Medicare, s/he is asked about insurance purchased directly from an insurance company or group: "Not counting long-term care policies or the health insurance you already told me about, do you have any other health insurance coverage that you purchased directly from an insurance company or through a membership organization?" If the Respondent says yes, this is counted as one private plan.

Beginning in Wave 6, the number of private insurance plans a Respondent has is asked in one question. The question is prefaced with the following: "Now, we'd like to ask about all the other types of health insurance plans you might have, such as insurance through an employer or a business, coverage for retirees, or health insurance you buy for yourself, including

any (Medigap or) other supplemental coverage." The Respondent is then asked, "Do NOT include long-term care insurance. [Other than your Medicare HMO you've just told me about/anything you have just told me about,] how many other such plans do you have?"

## HRS Variables Used

### HRS 1992:

VP6614	R3:EMPLR HLTH INS PLAN/ Sp-Prtnr
VP6615	R3A:EMP:#PLANS HAVE/ Sp-Prtnr
VP6632	R14:COV FRM INS CO:IMP/ Sp-Prtnr
VP6633	R14aA:CO/ORG:BASC HLTH/ Sp-Prtnr
VP6634	R14aB:CO/ORG:MEDIGAP/ Sp-Prtnr
VP6635	R14aC:CO/ORG:SUPPLMNTL/ Sp-Prtnr
VP6636	R14aD:CO/ORG:LN-TRM CR/ Sp-Prtnr
VP6637	R14aE:CO/ORG:OTHER/ Sp-Prtnr
VR6614	R3:EMPLR HLTH INS PLAN/ Self
VR6615	R3A:EMP:#PLANS HAVE/ Self
VR6632	R14:COV FRM INS CO:IMP/ Self
VR6633	R14aA:CO/ORG:BASC HLTH/ Self
VR6634	R14aB:CO/ORG:MEDIGAP/ Self
VR6635	R14aC:CO/ORG:SUPPLMNTL/ Self
VR6636	R14aD:CO/ORG:LN-TRM CR/ Self
VR6637	R14aE:CO/ORG:OTHER/ Self

### AHEAD 1993:

B1859	R6. R OTHER HEALTH INSURANCE: ANY
B1865A1	R7. R OTHER HEALTH INSURANCE: TYPE-1
B1865A2	R7. R OTHER HEALTH INSURANCE: TYPE-2
B1865A3	R7. R OTHER HEALTH INSURANCE: TYPE-3
B1865A4	R7. R OTHER HEALTH INSURANCE: TYPE-4
B1866	R8. R OTH HEALTH INS: # DIFF POLICIES

### HRS 1994:

W6705	R2-1.COVERED BY SAME POL
W6707	R2b-1.STILL COVERED BY W
W6708	R2-2a.STILL COVERED BY S
W6709	R2-2b.STILL COVERED BY S
W6724	R4.CURRENT HEALTH INS FR
W6725	R4a.# HEALTH INS PLANS F
W6754	R14.INSURANCE FROM COMPA
W6757	R14b.SUPPLEMENTARY HEALT
W6758	R14c.KIND OF PRIVATE HEA
W6759	R14c.KIND OF PRIVATE HEA
W6760	R14c.KIND OF PRIVATE HEA
W6761	R14c.KIND OF PRIVATE HEA

### AHEAD 1995:

D5214	R9. OTHER HEALTH INSURANCE
D5215	R9A.# OTHER HEALTH INS

### HRS 1996:

E5133	R1.MEDICARE COVERAGE
E5136	R5.CURRENTLY COVERED BY MEDICAID
E5145	R9.CHAMPUS/CHAMPVA COVERAGE
E5158	R12X.SELF-EMP INSURANCE
E5160	R13.ANY EMPLR INSURANCE FOR HOSP/DR BILL
E5161	R14.NUMBER OF EMPLOYER PROVIDED PLANS
E5205	R45B.CHECKPOINT
E5206	R46.OTHER INSURANCE
E5218	R48.ANY OTHER HEALTH INSUR

### HRS 1998:

F5869	R5.CURRENTLY COVERED BY MEDICAID
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F5878	R9.CHAMPUS/CHAMPVA COVERAGE
F5890	R12B.CHECKPOINT
F5891	R12X.SELF-EMP INSURANCE
F5893	R13.ANY INSURANCE FOR HOSP/DR BILLS
F5894	R14.NUMBER OF PLANS
F5937	R45B.CHECKPOINT
F5938	R46.OTHER INSURANCE
F5950	R48.ANY OTHER HEALTH INSUR
HRS 2000:	
G6263	R12X.CHECKPOINT
G6264	R12AA.SELF-EMP INSURANCE
G6266	R13.ANY INSURANCE THRU AN EMPLOYER
G6267	R14.NUMBER OF PLANS
G6311	R45B.CHECKPOINT
G6312	R46.OTHER INSURANCE
G6324	R48.ANY HEALTH INSUR
G6325	R48B.ANY OTHER PURCHASED HEALTH INS
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
HRS 2006:	
KN023	NUM PRIVATE HEALTH INS PLANS
HRS 2008:	
LN023	NUM PRIVATE HEALTH INS PLANS
HRS 2010:	
MN023	NUM PRIVATE HEALTH INS PLANS
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS

### Private health insurance premium amounts

Wave	Variable	Label	Type
1	R1PRPRM1	R1PRPRM1:W1 Private Insurance Plan 1 Monthly Premium	Cont
2	R2PRPRM1	R2PRPRM1:W2 Private Insurance Plan 1 Monthly Premium	Cont
3	R3PRPRM1	R3PRPRM1:W3 Private Insurance Plan 1 Monthly Premium	Cont
4	R4PRPRM1	R4PRPRM1:W4 Private Insurance Plan 1 Monthly Premium	Cont
5	R5PRPRM1	R5PRPRM1:W5 Private Insurance Plan 1 Monthly Premium	Cont
6	R6PRPRM1	R6PRPRM1:W6 Private Insurance Plan 1 Monthly Premium	Cont
7	R7PRPRM1	R7PRPRM1:W7 Private Insurance Plan 1 Monthly Premium	Cont
8	R8PRPRM1	R8PRPRM1:W8 Private Insurance Plan 1 Monthly Premium	Cont
9	R9PRPRM1	R9PRPRM1:W9 Private Insurance Plan 1 Monthly Premium	Cont
10	R10PRPRM1	R10PRPRM1:W10 Private Insurance Plan 1 Monthly Premium	Cont
11	R11PRPRM1	R11PRPRM1:W11 Private Insurance Plan 1 Monthly Premium	Cont
12	R12PRPRM1	R12PRPRM1:W12 Private Insurance Plan 1 Monthly Premium	Cont
1	S1PRPRM1	S1PRPRM1:W1 Private Insurance Plan 1 Monthly Premium	Cont
2	S2PRPRM1	S2PRPRM1:W2 Private Insurance Plan 1 Monthly Premium	Cont
3	S3PRPRM1	S3PRPRM1:W3 Private Insurance Plan 1 Monthly Premium	Cont
4	S4PRPRM1	S4PRPRM1:W4 Private Insurance Plan 1 Monthly Premium	Cont
5	S5PRPRM1	S5PRPRM1:W5 Private Insurance Plan 1 Monthly Premium	Cont
6	S6PRPRM1	S6PRPRM1:W6 Private Insurance Plan 1 Monthly Premium	Cont
7	S7PRPRM1	S7PRPRM1:W7 Private Insurance Plan 1 Monthly Premium	Cont
8	S8PRPRM1	S8PRPRM1:W8 Private Insurance Plan 1 Monthly Premium	Cont
9	S9PRPRM1	S9PRPRM1:W9 Private Insurance Plan 1 Monthly Premium	Cont
10	S10PRPRM1	S10PRPRM1:W10 Private Insurance Plan 1 Monthly Premium	Cont
11	S11PRPRM1	S11PRPRM1:W11 Private Insurance Plan 1 Monthly Premium	Cont
12	S12PRPRM1	S12PRPRM1:W12 Private Insurance Plan 1 Monthly Premium	Cont
2	R2PRPRM2	R2PRPRM2:W2 Private Insurance Plan 2 Monthly Premium	Cont
3	R3PRPRM2	R3PRPRM2:W3 Private Insurance Plan 2 Monthly Premium	Cont
4	R4PRPRM2	R4PRPRM2:W4 Private Insurance Plan 2 Monthly Premium	Cont
5	R5PRPRM2	R5PRPRM2:W5 Private Insurance Plan 2 Monthly Premium	Cont
6	R6PRPRM2	R6PRPRM2:W6 Private Insurance Plan 2 Monthly Premium	Cont
7	R7PRPRM2	R7PRPRM2:W7 Private Insurance Plan 2 Monthly Premium	Cont
8	R8PRPRM2	R8PRPRM2:W8 Private Insurance Plan 2 Monthly Premium	Cont
9	R9PRPRM2	R9PRPRM2:W9 Private Insurance Plan 2 Monthly Premium	Cont
10	R10PRPRM2	R10PRPRM2:W10 Private Insurance Plan 2 Monthly Premium	Cont
11	R11PRPRM2	R11PRPRM2:W11 Private Insurance Plan 2 Monthly Premium	Cont
12	R12PRPRM2	R12PRPRM2:W12 Private Insurance Plan 2 Monthly Premium	Cont
2	S2PRPRM2	S2PRPRM2:W2 Private Insurance Plan 2 Monthly Premium	Cont
3	S3PRPRM2	S3PRPRM2:W3 Private Insurance Plan 2 Monthly Premium	Cont
4	S4PRPRM2	S4PRPRM2:W4 Private Insurance Plan 2 Monthly Premium	Cont
5	S5PRPRM2	S5PRPRM2:W5 Private Insurance Plan 2 Monthly Premium	Cont
6	S6PRPRM2	S6PRPRM2:W6 Private Insurance Plan 2 Monthly Premium	Cont
7	S7PRPRM2	S7PRPRM2:W7 Private Insurance Plan 2 Monthly Premium	Cont
8	S8PRPRM2	S8PRPRM2:W8 Private Insurance Plan 2 Monthly Premium	Cont
9	S9PRPRM2	S9PRPRM2:W9 Private Insurance Plan 2 Monthly Premium	Cont
10	S10PRPRM2	S10PRPRM2:W10 Private Insurance Plan 2 Monthly Premium	Cont
11	S11PRPRM2	S11PRPRM2:W11 Private Insurance Plan 2 Monthly Premium	Cont
12	S12PRPRM2	S12PRPRM2:W12 Private Insurance Plan 2 Monthly Premium	Cont
2	R2PRPRM3	R2PRPRM3:W2 Private Insurance Plan 3 Monthly Premium	Cont
3	R3PRPRM3	R3PRPRM3:W3 Private Insurance Plan 3 Monthly Premium	Cont
6	R6PRPRM3	R6PRPRM3:W6 Private Insurance Plan 3 Monthly Premium	Cont
7	R7PRPRM3	R7PRPRM3:W7 Private Insurance Plan 3 Monthly Premium	Cont
8	R8PRPRM3	R8PRPRM3:W8 Private Insurance Plan 3 Monthly Premium	Cont
9	R9PRPRM3	R9PRPRM3:W9 Private Insurance Plan 3 Monthly Premium	Cont
10	R10PRPRM3	R10PRPRM3:W10 Private Insurance Plan 3 Monthly Premium	Cont
11	R11PRPRM3	R11PRPRM3:W11 Private Insurance Plan 3 Monthly Premium	Cont
12	R12PRPRM3	R12PRPRM3:W12 Private Insurance Plan 3 Monthly Premium	Cont
2	S2PRPRM3	S2PRPRM3:W2 Private Insurance Plan 3 Monthly Premium	Cont
3	S3PRPRM3	S3PRPRM3:W3 Private Insurance Plan 3 Monthly Premium	Cont
6	S6PRPRM3	S6PRPRM3:W6 Private Insurance Plan 3 Monthly Premium	Cont
7	S7PRPRM3	S7PRPRM3:W7 Private Insurance Plan 3 Monthly Premium	Cont
8	S8PRPRM3	S8PRPRM3:W8 Private Insurance Plan 3 Monthly Premium	Cont
9	S9PRPRM3	S9PRPRM3:W9 Private Insurance Plan 3 Monthly Premium	Cont



10	S10PRPRM3	S10PRPRM3:W10 Private Insurance Plan 3 Monthly Premium	Cont
11	S11PRPRM3	S11PRPRM3:W11 Private Insurance Plan 3 Monthly Premium	Cont
12	S12PRPRM3	S12PRPRM3:W12 Private Insurance Plan 3 Monthly Premium	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PRPRM1	1633	122.25	200.12	0.0	3150.0
R2PRPRM1	11372	142.15	3226.60	0.0	261130.0
R3PRPRM1	8815	94.34	198.15	0.0	9950.0
R4PRPRM1	10862	95.82	216.67	0.0	17333.3
R5PRPRM1	9597	111.60	295.49	0.0	18300.0
R6PRPRM1	10476	129.12	150.76	0.0	900.0
R7PRPRM1	11321	154.00	178.46	0.0	2494.0
R8PRPRM1	9741	158.87	186.90	0.0	3000.0
R9PRPRM1	8341	181.30	252.49	0.0	6307.0
R10PRPRM1	10217	211.67	378.61	0.0	9950.0
R11PRPRM1	9085	213.37	263.25	0.0	5524.0
R12PRPRM1	8154	221.21	289.58	0.0	8360.0
S1PRPRM1	1252	127.24	209.02	0.0	3150.0
S2PRPRM1	7564	154.79	3459.34	0.0	261130.0
S3PRPRM1	6102	102.22	216.16	0.0	9950.0
S4PRPRM1	7198	107.40	252.12	0.0	17333.3
S5PRPRM1	6247	124.93	334.15	0.0	18300.0
S6PRPRM1	7227	144.48	164.42	0.0	900.0
S7PRPRM1	7895	173.26	193.15	0.0	2494.0
S8PRPRM1	6749	179.78	204.90	0.0	3000.0
S9PRPRM1	5703	204.60	276.26	0.0	6307.0
S10PRPRM1	6866	234.14	357.73	0.0	9950.0
S11PRPRM1	6105	240.67	281.01	0.0	4800.0
S12PRPRM1	5273	254.57	319.19	0.0	8360.0
R2PRPRM2	893	45.49	77.42	0.0	1223.0
R3PRPRM2	769	46.52	79.60	0.0	900.0
R4PRPRM2	235	58.93	72.57	0.0	328.0
R5PRPRM2	520	62.94	135.94	0.0	2166.7
R6PRPRM2	615	53.95	87.67	0.0	500.0
R7PRPRM2	797	52.90	86.45	0.0	600.0
R8PRPRM2	569	54.28	92.68	0.0	800.0
R9PRPRM2	475	76.28	239.24	0.0	3762.0
R10PRPRM2	602	95.54	322.22	0.0	4776.0
R11PRPRM2	509	75.73	154.71	0.0	2500.0
R12PRPRM2	534	70.60	119.70	0.0	1600.0
S2PRPRM2	686	47.45	71.99	0.0	692.0
S3PRPRM2	511	50.84	88.82	0.0	900.0
S4PRPRM2	199	58.68	72.85	0.0	308.0
S5PRPRM2	415	67.99	148.81	0.0	2166.7
S6PRPRM2	471	57.97	91.33	0.0	500.0
S7PRPRM2	583	60.66	95.26	0.0	600.0
S8PRPRM2	432	63.04	102.41	0.0	800.0
S9PRPRM2	351	81.47	226.97	0.0	3762.0
S10PRPRM2	419	100.62	319.90	0.0	4776.0
S11PRPRM2	342	81.01	123.18	0.0	800.0
S12PRPRM2	361	73.98	107.16	0.0	560.0

R2PRPRM3	53	41.36	57.63	0.0	350.0
R3PRPRM3	4	311.67	396.92	30.0	900.0
R6PRPRM3	53	34.85	83.68	0.0	565.0
R7PRPRM3	87	26.64	49.85	0.0	300.0
R8PRPRM3	60	40.12	93.03	0.0	500.0
R9PRPRM3	58	33.55	61.43	0.0	376.0
R10PRPRM3	105	40.20	97.14	0.0	950.0
R11PRPRM3	74	32.19	58.76	0.0	300.0
R12PRPRM3	115	31.87	48.11	0.0	350.0
S2PRPRM3	37	49.16	65.85	3.0	350.0
S3PRPRM3	2	533.33	518.54	166.7	900.0
S6PRPRM3	40	27.85	43.35	0.0	150.0
S7PRPRM3	60	29.12	57.45	0.0	300.0
S8PRPRM3	45	45.49	106.50	0.0	500.0
S9PRPRM3	40	34.93	67.32	0.0	376.0
S10PRPRM3	73	38.00	41.23	0.0	155.0
S11PRPRM3	49	25.65	41.34	0.0	247.0
S12PRPRM3	77	27.40	37.42	0.0	233.0

## How Constructed

RwPRPRM1, RwPRPRM2, and RwPRPRM3 indicate the amount in nominal dollars that the Respondent pays in monthly premiums for her/his private health insurance plan(s). SwPRPRM1, SwPRPRM2, and SwPRPRM3 provide the information for the Respondent's spouse or partner.

In Waves 1 to 5, Respondents are asked about their private health insurance plan premiums by type of plan (employer-provided, supplemental, purchased directly from an insurance company or group). The wording of these questions varies by wave and not all waves ask about all types separately.

From Wave 6 forward, Respondents are asked about their three most important private health insurance plans.

In Wave 3A and Waves 6 to 11, if a Respondent indicates having a private health insurance plan, s/he is asked if they pay all/some/none of the costs of the premium.

In Waves 2H, 3H, 4, and 5, if a Respondent indicates that s/he has a private employer-provided health insurance plan, s/he is asked if they pay all/some/none of the costs of the premium.

In Waves 3H, 4, and 5, if a Respondent indicates that s/he has a private supplemental health insurance plan, s/he is asked if they pay all/some/none of the costs of the premium.

In all waves, if the Respondent indicates that they pay all or some of the cost of the premium or there is no initial question about how much of the premium the Respondent pays, the Respondent is asked how much they pay for this insurance.

The Respondent reports amount paid as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are converted to monthly amounts.

RwPRPRMx, where 'x' is the relevant plan number, is set to .S when the premium question is skipped. The question(s) may be skipped for a variety of reasons, including: no (more) private health insurance plans, the Respondent does not know or

refuses to answer the number of private health insurance plans question, or the question was not asked for a specific type of private health plan.

SwPRPRM1 for Wave 1 is taken from the Financial Respondent's information if appropriate. That is, if the Respondent is the Financial Respondent, then S1PRPRM1 contains the Financial Respondent's spouse's information. If the Respondent is the spouse of the Financial Respondent, then S1PRPRM1 contains the Financial Respondent's information.

From Wave 2 forward, this information is taken from the spouse's self-reported RwPRPRM1-3 variables, if available. If the Respondent is not married, SwPRPRM1-3 is set to .U=unmarried. If the Respondent's spouse did not respond, then SwPRPRM1-3 is set to .V=Spouse is non-response.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent about the Financial Respondent's insurance coverage and, if married, her/his spouse's insurance coverage. From Wave 2 forward, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1, the Respondent only reports premiums for her/his supplemental plans or plans purchased directly from an insurance company or group. However, this can include long-term care insurance. The question asks, "How much do you pay for this insurance?" and it is unclear if the Respondent responds for all supplemental/other plans or just the most important plan. In a separate question, the Respondent lists the types of private health insurance plans s/he has (other than employer-provided plans). If the Respondent only reports a long-term care insurance plan, then R1PRPRM1 is set to .L to indicate that the premium amount is only for a long-term care insurance plan. In this instance, the premium amount is recorded in R1LTCPRM. If a Respondent lists long-term care and another type of insurance (such as Medigap), these both may be part of the premium listed in R1PRPRM1. There are no questions about the second or third supplemental plan or about employer-provided insurance premiums in Wave 1.

In Wave 2A, the Respondent reports premiums for all private plans in one question which asks, "Again, not counting Medicare, how much do you pay for this policy/Taken together, how much do you pay for these policies?" Note therefore that if the Respondent has reported multiple private health insurance plans, the sum of the premiums is reported in R2PRPRM1. In a separate question, Respondents are asked "What kind of coverage do you have?" Since this list includes long-term care insurance, if a Respondent only lists long-term care insurance as the type of coverage s/he has, then R2PRPRM1 is set to .L to indicate that the premium amount is only for a long-term care insurance plan. In this instance, the premium amount is recorded in R2LTCPRM. Since all private health insurance plan premiums are reported in one location, there are no premium variables for the second or third plans in Wave 2A.

In Wave 2H, the Respondent is asked about employer-provided plans, other/supplemental plans, and plans direct from an insurance company or group separately.

For the employer-provided plans in Wave 2H, the amount of the premium is not asked if (1) a preloaded value indicates that the Respondent reported being covered by employer-provided health insurance at Wave 1, and (2) if the Respondent indicates that s/he is still covered by that source. In this instance, R2PRPRM1 is set to .C to indicate that the Respondent has a plan, but the premium amount is not available. Otherwise, Respondents who indicate having employer-provided plans are asked, "About how much per month do you pay under this plan?"

In Wave 2H, the Respondent is asked about plans purchased directly from an insurance company or group. If the Respondent indicates having such coverage, s/he is asked, "How much do you pay for this insurance (per month or quarter)?"

In Wave 2H, the Respondent is then asked about supplemental plans. If the Respondent indicates having a supplemental plan, s/he is asked "What kind of coverage do you have?" Since this list includes long-term care insurance, if a Respondent

only lists long-term care insurance as the type of coverage s/he has, then R2PRPRM1 is set to .L to indicate that the premium amount is only for a long-term care insurance plan. In this instance, the premium amount is recorded in R2LTCPRM. After indicating the type of plan, the Respondent is then asked, "How much do you pay for this insurance?"

In Wave 3A, if the Respondent indicates having one private health insurance plan, s/he is asked about that plan. If the Respondent indicates having more than one private health insurance plan, s/he is asked about the first plan first, then about all other plans combined. For each round, the Respondent is asked, "How is this coverage paid for—entirely by you (or your husband/or your wife/or your partner), entirely by your (husband's/wife's/partner's) (former) employer or union, or partly by a (former) employer or union, or what?" If the Respondent indicates that the plan is entirely paid for by an employer or union, then the premium amount is coded as "0". Otherwise, the Respondent is asked, "About how much do you pay for this plan?"

In Wave 3A, there was an erroneous skip pattern that affected 1,172 Respondents. If the Respondent listed one private plan, the follow-up questions on source and premium amount were skipped. At some point, this issue was fixed but 1,172 Respondents were affected. For these individuals, the premium variable is coded as .M for other missing.

In Waves 3H, 4, and 5, the Respondent is asked about employer-provided plans, other/supplemental plans, and plans purchased directly from an insurance company or group separately.

In Waves 3H and 4, for employer-provided plans, if a Respondent indicates having an employer-provided plan or a plan through self-employment, then s/he is first asked, "Do you pay all of the costs, some of the costs, or none of the costs of the premium for this health insurance coverage?" If the Respondent indicates that they pay none of the cost, then the premium amount is coded as "0". Otherwise, the Respondent is asked, "How much do you pay for this health insurance?"

In Wave 5, employer-provided plan questions are similar to Waves 3H and 4, with a few exceptions. Those who indicate having a plan through self-employment and ARE covered by Medicare are not asked the premium or source questions. Those who indicate having a plan through self-employment and ARE NOT covered by Medicare are asked the premium and source questions in a separate question, the same question for those who obtain insurance direct from an insurance company or group. If the Respondent obtains health insurance through her/his spouse, then the premium amount question is not asked and the premium variable is coded as .C to indicate coverage by spouse.

In Waves 4 and 5, for employer-provided plans, if the Respondent does not list the time period for amount paid (e.g., bi-weekly, monthly), then the monthly amount cannot be calculated and RwPRPRMx, where 'x' is the relevant plan number, is set to .K.

In Waves 3H, 4, and 5, the Respondent is then asked about supplemental plans. If the Respondent indicates having a supplemental private health plan, s/he is asked if they pay some/all/none of the costs. If the Respondent pays none of the cost, then the premium amount is coded as "0", otherwise the Respondent is asked how much they pay. The Respondent is then asked about plans direct from an insurance company or group. If the Respondent indicates coverage, the questions are similar to the supplemental plan questions. Note that in Wave 5, the premiums for those who have a plan through self-employment and ARE NOT covered by Medicare are obtained in this group of questions.

From Wave 6 forward, Respondents are asked about their three most important private health insurance plans.

In Waves 6 to 11, if a Respondent indicates having one or more private plans, a question asks, "Including any help from your family, do you [or your husband/wife/partner] pay all of the costs, some of the costs, or none of the costs of the premium for this health insurance coverage?" If the Respondent indicates that they pay none of the cost, then the premium amount is coded as "0". Otherwise, the Respondent is next asked, "How much do you [or your] [husband/wife/partner] pay per month in premiums for this plan?"

In Wave 12, the Respondent is not asked what portion of the premium they pay. The Respondent is simply asked, "How much do you [or your] [husband/wife/partner] pay per month in premiums for this plan (for you and any members of your household that are also covered)?"

## HRS Variables Used

HRS 1992:

VP6632	R14:COV FRM INS CO:IMP/ Sp-Prtnr
VP6638	R14B:CO/ORG:\$ PLN :IMP/ Sp-Prtnr
VP6639	R14B:CO/ORG:COST P:IMP/ Sp-Prtnr
VR6632	R14:COV FRM INS CO:IMP/ Self
VR6638	R14B:CO/ORG:\$ PLN :IMP/ Self
VR6639	R14B:CO/ORG:COST P:IMP/ Self

AHEAD 1993:

B1859	R6. R OTHER HEALTH INSURANCE: ANY
B1865A1	R7. R OTHER HEALTH INSURANCE: TYPE-1
B1865A2	R7. R OTHER HEALTH INSURANCE: TYPE-2
B1865A3	R7. R OTHER HEALTH INSURANCE: TYPE-3
B1865A4	R7. R OTHER HEALTH INSURANCE: TYPE-4
B1866	R8. R OTH HEALTH INS: # DIFF POLICIES
B1867	R9. R OTH HEALTH INS: TOTAL COST TO R
B1868	R9a. R OTH HEALTH INSUR: TOT COST PERIOD

HRS 1994:

W6705	R2-1.COVERED BY SAME POL
W6707	R2b-1.STILL COVERED BY W
W6708	R2-2a.STILL COVERED BY S
W6709	R2-2b.STILL COVERED BY S
W6711	R3a.COST PER MONTH
W6724	R4.CURRENT HEALTH INS FR
W6725	R4a.# HEALTH INS PLANS F
W6728	P1. R6a.COST PER MONTH
W6733	P1. R7.WHO PAYS FOR INSU
W6742	P2. R6a.COST PER MONTH
W6747	P2. R7.WHO PAYS FOR INSU
W6754	R14.INSURANCE FROM COMPA
W6755	R14a.COST OF INSURANCE
W6756	R14a1.PER
W6757	R14b.SUPPLEMENTARY HEALT
W6758	R14c.KIND OF PRIVATE HEA
W6759	R14c.KIND OF PRIVATE HEA
W6761	R14c.KIND OF PRIVATE HEA
W6762	R14d1.COST FOR PRIVATE H
W6763	R14d2.PER

AHEAD 1995:

D5214	R9. OTHER HEALTH INSURANCE
D5215	R9A.# OTHER HEALTH INS
D5226	R10E. HOW PAY FOR HMO-1
D5227	R10F. HOW MUCH R PAY HMO-1
D5228	R10G. PER R10F.
D5243	R11E. HOW PAY FOR HMO-1
D5244	R11F. HOW MUCH R PAY HMO-1
D5245	R11G. PER R11F.

HRS 1996:

E5161	R14.NUMBER OF EMPLOYER PROVIDED PLANS
E5165_1	R15B.CHECKPOINT
E5165_2	R15B.CHECKPOINT
E5166_1	R16.PAY COSTS FOR HEALTH INSURANCE
E5166_2	R16.PAY COSTS FOR HEALTH INSURANCE

E5167_1	R17.AMT PAID OTHER PLANS
E5167_2	R17.AMT PAID OTHER PLANS
E5168_1	R17.AMT PAID OTHER PLANS PER
E5168_2	R17.AMT PAID OTHER PLANS PER
E5206	R46.OTHER INSURANCE
E5208	R46B.PAY ALL/SOME/NONE OF PREMIUM
E5209	R46C.SUPPLEMENT AMT PAY
E5210	R46CA.SUPPLEMENT AMT PAY PER
E5218	R48.ANY OTHER HEALTH INSUR
E5219	R50.COVER HOSPITAL/PHYSICAL VISITS
E5220	R51.R PAY COST
E5221	R52.AMT PAY FOR OTHER HEALTH INSURANCE
E5222	R52A.AMT PAY FOR OTHER HEALTH INSUR PER
HRS 1998:	
F5894	R14.NUMBER OF PLANS
F5898	R15B.CHECKPOINT
F5899	R16.PAY COSTS FOR HEALTH INSURANCE
F5900	R17.AMT PAID
F5901	R17.AMT PAID-PER
F5938	R46.OTHER INSURANCE
F5940	R46B.PAY ALL/SOME/NONE OF PREMIUM
F5941	R46C.AMT PAY
F5942	R46CA.AMT PAY-PER
F5950	R48.ANY OTHER HEALTH INSUR
F5953	R52.AMT PAY FOR HEALTH INSURANCE
F5954	R52A.AMT PAY FOR HEALTH INSURANCE-PER
HRS 2000:	
G6238	R1.MEDICARE COVERAGE
G6264	R12AA.SELF-EMP INSURANCE
G6266	R13.ANY INSURANCE THRU AN EMPLOYER
G6271	R15B.CHECKPOINT
G6272	R16.PAY COSTS FOR HEALTH INSURANCE
G6273	R17.AMT PAID
G6274	R17Y1. PER
G6312	R46.OTHER INSURANCE
G6314	R46B.PAY ALL/SOME/NONE OF PREMIUM
G6315	R46C.AMT PAY
G6316	R46CA.PER
G6324	R48.ANY HEALTH INSUR
G6325	R48B.ANY OTHER PURCHASED HEALTH INS
G6327	R52.AMT PAY FOR HEALTH INSURANCE
G6328	R52A.PER
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
HN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
HN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS-3
HN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
HN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
HN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
JN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
JN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
JN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS-3
JN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
JN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
JN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2006:	

KN023	NUM PRIVATE HEALTH INS PLANS
KN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
KN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
KN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS-3
KN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
KN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
KN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2008:	
LN023	NUM PRIVATE HEALTH INS PLANS
LN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
LN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
LN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS-3
LN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
LN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
LN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2010:	
MN023	NUM PRIVATE HEALTH INS PLANS
MN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
MN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
MN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS-3
MN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
MN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
MN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
NN039_1	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 1
NN039_2	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 2
NN039_3	PAY ALL/SOME/NONE PRIV PLAN HI COSTS- 3
NN040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
NN040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
NN040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS
ON040_1	PRIV PLAN HI PAY PER/MONTH- AMT- 1
ON040_2	PRIV PLAN HI PAY PER/MONTH- AMT- 2
ON040_3	PRIV PLAN HI PAY PER/MONTH- AMT- 3

<b>Source of private health insurance plans</b>
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Wave	Variable	Label	Type
1	R1PRSRC1	R1PRSRC1:W1 Private Insurance Plan 1 Source	Categ
2	R2PRSRC1	R2PRSRC1:W2 Private Insurance Plan 1 Source	Categ
3	R3PRSRC1	R3PRSRC1:W3 Private Insurance Plan 1 Source	Categ
4	R4PRSRC1	R4PRSRC1:W4 Private Insurance Plan 1 Source	Categ
5	R5PRSRC1	R5PRSRC1:W5 Private Insurance Plan 1 Source	Categ
6	R6PRSRC1	R6PRSRC1:W6 Private Insurance Plan 1 Source	Categ
7	R7PRSRC1	R7PRSRC1:W7 Private Insurance Plan 1 Source	Categ
8	R8PRSRC1	R8PRSRC1:W8 Private Insurance Plan 1 Source	Categ
9	R9PRSRC1	R9PRSRC1:W9 Private Insurance Plan 1 Source	Categ
10	R10PRSRC1	R10PRSRC1:W10 Private Insurance Plan 1 Source	Categ
11	R11PRSRC1	R11PRSRC1:W11 Private Insurance Plan 1 Source	Categ
12	R12PRSRC1	R12PRSRC1:W12 Private Insurance Plan 1 Source	Categ
1	S1PRSRC1	S1PRSRC1:W1 Private Insurance Plan 1 Source	Categ
2	S2PRSRC1	S2PRSRC1:W2 Private Insurance Plan 1 Source	Categ
3	S3PRSRC1	S3PRSRC1:W3 Private Insurance Plan 1 Source	Categ
4	S4PRSRC1	S4PRSRC1:W4 Private Insurance Plan 1 Source	Categ
5	S5PRSRC1	S5PRSRC1:W5 Private Insurance Plan 1 Source	Categ
6	S6PRSRC1	S6PRSRC1:W6 Private Insurance Plan 1 Source	Categ
7	S7PRSRC1	S7PRSRC1:W7 Private Insurance Plan 1 Source	Categ
8	S8PRSRC1	S8PRSRC1:W8 Private Insurance Plan 1 Source	Categ
9	S9PRSRC1	S9PRSRC1:W9 Private Insurance Plan 1 Source	Categ
10	S10PRSRC1	S10PRSRC1:W10 Private Insurance Plan 1 Source	Categ
11	S11PRSRC1	S11PRSRC1:W11 Private Insurance Plan 1 Source	Categ
12	S12PRSRC1	S12PRSRC1:W12 Private Insurance Plan 1 Source	Categ
2	R2PRSRC2	R2PRSRC2:W2 Private Insurance Plan 2 Source	Categ
3	R3PRSRC2	R3PRSRC2:W3 Private Insurance Plan 2 Source	Categ
4	R4PRSRC2	R4PRSRC2:W4 Private Insurance Plan 2 Source	Categ
5	R5PRSRC2	R5PRSRC2:W5 Private Insurance Plan 2 Source	Categ
6	R6PRSRC2	R6PRSRC2:W6 Private Insurance Plan 2 Source	Categ
7	R7PRSRC2	R7PRSRC2:W7 Private Insurance Plan 2 Source	Categ
8	R8PRSRC2	R8PRSRC2:W8 Private Insurance Plan 2 Source	Categ
9	R9PRSRC2	R9PRSRC2:W9 Private Insurance Plan 2 Source	Categ
10	R10PRSRC2	R10PRSRC2:W10 Private Insurance Plan 2 Source	Categ
11	R11PRSRC2	R11PRSRC2:W11 Private Insurance Plan 2 Source	Categ
12	R12PRSRC2	R12PRSRC2:W12 Private Insurance Plan 2 Source	Categ
2	S2PRSRC2	S2PRSRC2:W2 Private Insurance Plan 2 Source	Categ
3	S3PRSRC2	S3PRSRC2:W3 Private Insurance Plan 2 Source	Categ
4	S4PRSRC2	S4PRSRC2:W4 Private Insurance Plan 2 Source	Categ
5	S5PRSRC2	S5PRSRC2:W5 Private Insurance Plan 2 Source	Categ
6	S6PRSRC2	S6PRSRC2:W6 Private Insurance Plan 2 Source	Categ
7	S7PRSRC2	S7PRSRC2:W7 Private Insurance Plan 2 Source	Categ
8	S8PRSRC2	S8PRSRC2:W8 Private Insurance Plan 2 Source	Categ
9	S9PRSRC2	S9PRSRC2:W9 Private Insurance Plan 2 Source	Categ
10	S10PRSRC2	S10PRSRC2:W10 Private Insurance Plan 2 Source	Categ
11	S11PRSRC2	S11PRSRC2:W11 Private Insurance Plan 2 Source	Categ
12	S12PRSRC2	S12PRSRC2:W12 Private Insurance Plan 2 Source	Categ
2	R2PRSRC3	R2PRSRC3:W2 Private Insurance Plan 3 Source	Categ
3	R3PRSRC3	R3PRSRC3:W3 Private Insurance Plan 3 Source	Categ
6	R6PRSRC3	R6PRSRC3:W6 Private Insurance Plan 3 Source	Categ
7	R7PRSRC3	R7PRSRC3:W7 Private Insurance Plan 3 Source	Categ
8	R8PRSRC3	R8PRSRC3:W8 Private Insurance Plan 3 Source	Categ
9	R9PRSRC3	R9PRSRC3:W9 Private Insurance Plan 3 Source	Categ
10	R10PRSRC3	R10PRSRC3:W10 Private Insurance Plan 3 Source	Categ
11	R11PRSRC3	R11PRSRC3:W11 Private Insurance Plan 3 Source	Categ
12	R12PRSRC3	R12PRSRC3:W12 Private Insurance Plan 3 Source	Categ
2	S2PRSRC3	S2PRSRC3:W2 Private Insurance Plan 3 Source	Categ
3	S3PRSRC3	S3PRSRC3:W3 Private Insurance Plan 3 Source	Categ
6	S6PRSRC3	S6PRSRC3:W6 Private Insurance Plan 3 Source	Categ
7	S7PRSRC3	S7PRSRC3:W7 Private Insurance Plan 3 Source	Categ
8	S8PRSRC3	S8PRSRC3:W8 Private Insurance Plan 3 Source	Categ
9	S9PRSRC3	S9PRSRC3:W9 Private Insurance Plan 3 Source	Categ



10	S10PRSRC3	S10PRSRC3:W10 Private Insurance Plan 3 Source	Categ
11	S11PRSRC3	S11PRSRC3:W11 Private Insurance Plan 3 Source	Categ
12	S12PRSRC3	S12PRSRC3:W12 Private Insurance Plan 3 Source	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1PRSRC1	1711	8.00	0.00	8.0	8.0
R2PRSRC1	8887	2.26	2.25	1.0	10.0
R3PRSRC1	10275	2.67	2.52	1.0	10.0
R4PRSRC1	10933	2.00	2.07	1.0	10.0
R5PRSRC1	10527	1.98	1.99	1.0	10.0
R6PRSRC1	12347	2.86	2.45	1.0	10.0
R7PRSRC1	13142	2.65	2.26	1.0	10.0
R8PRSRC1	11368	2.67	2.22	1.0	10.0
R9PRSRC1	9856	2.77	2.32	1.0	10.0
R10PRSRC1	11954	2.47	2.20	1.0	10.0
R11PRSRC1	10610	2.55	2.23	1.0	10.0
R12PRSRC1	9479	2.80	2.46	1.0	10.0
S1PRSRC1	1311	8.00	0.00	8.0	8.0
S2PRSRC1	7196	2.36	2.06	1.0	10.0
S3PRSRC1	7464	2.76	2.28	1.0	10.0
S4PRSRC1	8195	2.31	1.93	1.0	10.0
S5PRSRC1	7971	2.25	1.91	1.0	10.0
S6PRSRC1	8654	2.71	2.07	1.0	10.0
S7PRSRC1	9320	2.59	1.94	1.0	10.0
S8PRSRC1	7982	2.61	1.94	1.0	10.0
S9PRSRC1	6820	2.71	2.05	1.0	10.0
S10PRSRC1	8188	2.51	1.90	1.0	10.0
S11PRSRC1	7226	2.56	1.93	1.0	10.0
S12PRSRC1	6239	2.79	2.18	1.0	10.0
R2PRSRC2	1095	7.37	1.91	1.0	8.0
R3PRSRC2	933	2.95	2.74	1.0	10.0
R5PRSRC2	379	8.00	0.00	8.0	8.0
R6PRSRC2	737	3.13	2.60	1.0	10.0
R7PRSRC2	903	2.86	2.35	1.0	10.0
R8PRSRC2	639	2.69	2.19	1.0	10.0
R9PRSRC2	546	3.03	2.45	1.0	10.0
R10PRSRC2	717	2.70	2.26	1.0	10.0
R11PRSRC2	579	2.86	2.37	1.0	10.0
R12PRSRC2	620	2.99	2.49	1.0	10.0
S2PRSRC2	859	7.32	2.01	1.0	8.0
S3PRSRC2	719	2.82	2.66	1.0	10.0
S5PRSRC2	299	8.00	0.00	8.0	8.0
S6PRSRC2	569	2.88	2.48	1.0	10.0
S7PRSRC2	693	2.57	2.06	1.0	10.0
S8PRSRC2	495	2.56	1.99	1.0	7.0
S9PRSRC2	414	2.88	2.19	1.0	10.0
S10PRSRC2	497	2.54	1.94	1.0	10.0
S11PRSRC2	393	2.59	1.93	1.0	7.0
S12PRSRC2	421	2.97	2.31	1.0	10.0
R2PRSRC3	74	8.00	0.00	8.0	8.0

R3PRSRC3	5	8.00	0.00	8.0	8.0
R6PRSRC3	64	3.33	2.71	1.0	10.0
R7PRSRC3	95	2.63	2.31	1.0	7.0
R8PRSRC3	69	2.67	2.39	1.0	10.0
R9PRSRC3	59	2.66	2.53	1.0	10.0
R10PRSRC3	121	2.21	2.19	1.0	10.0
R11PRSRC3	84	2.10	1.89	1.0	7.0
R12PRSRC3	126	2.23	2.15	1.0	9.0
S2PRSRC3	55	8.00	0.00	8.0	8.0
S3PRSRC3	3	8.00	0.00	8.0	8.0
S6PRSRC3	49	3.51	2.63	1.0	10.0
S7PRSRC3	67	2.73	1.93	1.0	7.0
S8PRSRC3	53	2.66	1.80	1.0	7.0
S9PRSRC3	42	3.07	2.15	1.0	10.0
S10PRSRC3	82	2.40	1.62	1.0	7.0
S11PRSRC3	57	2.63	1.81	1.0	7.0
S12PRSRC3	86	2.74	2.00	1.0	9.0

### Categorical Variable Codes

Value	R1PRSRC1	R2PRSRC1	R3PRSRC1	R4PRSRC1	R5PRSRC1	R6PRSRC1	R7PRSRC1
.D=DK		6	279	4	11	69	71
.G=Includes Gov't programs		9					199
.K=Can't ascertain		57	958	3620	2802		
.M=Oth missing			1172			2	
.Q=Not asked this wv		8222					
.R=RF		6	20	2	3	5	6
.S=Skip,question not asked	10941	2455	5287	6825	6236	5742	6711
1.R's current/former employ		4740	5396	6754	6270	6022	6721
2.Current S's current/forme		2699	2371	2887	3110	2445	2731
3.R's Union		235	122	162	128	64	57
4.S's Union		156	61	56	58	14	17
5.Former S's Emp/Union						382	412
6.Direct from Insurance Com			653			2510	2483
7.Group		12	783			635	606
8.Insurance Company/Group	1711	977	822	1034	939		
10.Other		68	67	40	22	275	115
Value	R8PRSRC1	R9PRSRC1	R10PRSRC1	R11PRSRC1	R12PRSRC1		
.D=DK	53	40	89	74	85		
.G=Includes Gov't programs	98	78	121	123	151		
.M=Oth missing			1	1			
.R=RF		2	10	3	5		
.S=Skip,question not asked	6950	7241	9859	9743	9027		
1.R's current/former employ	5690	4844	6552	5677	4847		
2.Current S's current/forme	2351	2000	2479	2164	1787		
3.R's Union	52	51	46	51	40		
4.S's Union	15	6	11	3	8		
5.Former S's Emp/Union	472	391	344	331	294		
6.Direct from Insurance Com	2234	1977	1862	1789	1718		
7.Group	512	482	545	501	470		
9.Insurance Exchange					231		
10.Other	42	105	115	94	84		

Value	S1PRSRC1	S2PRSRC1	S3PRSRC1	S4PRSRC1	S5PRSRC1	S6PRSRC1	S7PRSRC1
.D=DK		4	181	2	6	30	20
.G=Includes Gov't programs		7					116
.K=Can't ascertain		46	814	2234	1614		
.M=Oth missing			674			1	
.Q=Not asked this wv		4549					
.R=RF		4	11	1	1	2	2
.S=Skip,question not asked	8968	1482	2771	3546	3138	2952	3514
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	418	537	311	220	380
1.R's current/former employ		2572	1999	2408	2610	2407	2664
2.Current S's current/forme		3530	3912	4840	4487	4265	4712
3.R's Union		150	50	49	45	11	16
4.S's Union		169	86	128	102	35	28
5.Former S's Emp/Union						14	22
6.Direct from Insurance Com			331			1464	1500
7.Group		10	440			356	330
8.Insurance Company/Group	1311	760	603	748	712		
10.Other		5	43	22	15	102	48

Value	S8PRSRC1	S9PRSRC1	S10PRSRC1	S11PRSRC1	S12PRSRC1
.D=DK	14	17	32	34	37
.G=Includes Gov't programs	52	40	69	67	87
.M=Oth missing				1	
.R=RF		1	4	2	3
.S=Skip,question not asked	3687	3768	5220	5158	4661
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.R's current/former employ	2295	1938	2348	2051	1678
2.Current S's current/forme	3949	3294	4311	3749	3101
3.R's Union	15	4	9	1	7
4.S's Union	35	32	24	29	18
5.Former S's Emp/Union	9			2	
6.Direct from Insurance Com	1377	1226	1138	1071	1020
7.Group	278	271	304	275	232
9.Insurance Exchange					139
10.Other	24	55	54	48	44

Value	R2PRSRC2	R3PRSRC2	R4PRSRC2	R5PRSRC2	R6PRSRC2	R7PRSRC2
.D=DK		194			5	13
.G=Includes Gov't programs	8					31
.K=Can't ascertain		61	273	208		
.M=Oth missing		10			3	4
.Q=Not asked this wv	8222					
.R=RF	1	14			4	2
.S=Skip,question not asked	10316	16779	21111	18992	17416	19176
1.R's current/former employ	45	364			280	366
2.Current S's current/forme	60	334			217	266
3.R's Union	2	19			6	14
4.S's Union	1	10				3
5.Former S's Emp/Union					11	21
6.Direct from Insurance Com					130	151
7.Group		127			64	66
8.Insurance Company/Group	987	30		379		
10.Other		49			29	16

Value	R8PRSRC2	R9PRSRC2	R10PRSRC2	R11PRSRC2	R12PRSRC2
.D=DK	8	3	8	9	10
.G=Includes Gov't programs	19	8	9	7	7
.M=Oth missing			1		
.R=RF	3	1	5	2	5
.S=Skip,question not asked	17800	16659	21294	19957	18105
1.R's current/former employ	286	238	338	266	287
2.Current S's current/forme	173	119	173	129	122
3.R's Union	7	5	7	7	7
4.S's Union	2		1	3	

5.Former S's Emp/Union	15	15	22	14	15
6.Direct from Insurance Com	111	124	133	111	136
7.Group	44	36	36	42	35
9.Insurance Exchange					12
10.Other	1	9	7	7	6

Value	S2PRSRC2	S3PRSRC2	S4PRSRC2	S5PRSRC2	S6PRSRC2	S7PRSRC2
.D=DK		110			2	7
.G=Includes Gov't programs	7					14
.K=Can't ascertain		53	230	177		
.M=Oth missing		9			2	2
.Q=Not asked this wv	4549					
.R=RF		12			2	2
.S=Skip,question not asked	7873	11012	13748	12254	11064	12254
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	418	537	311	220	380
1.R's current/former employ	52	300			215	260
2.Current S's current/forme	37	252			206	277
3.R's Union		9				3
4.S's Union		12			2	7
5.Former S's Emp/Union					1	4
6.Direct from Insurance Com					82	97
7.Group		88			42	41
8.Insurance Company/Group	770	25		299		
10.Other		33			21	4

Value	S8PRSRC2	S9PRSRC2	S10PRSRC2	S11PRSRC2	S12PRSRC2
.D=DK	6	2	3	5	4
.G=Includes Gov't programs	11	4	5	4	5
.M=Oth missing			1		
.R=RF	2	1	3	2	3
.S=Skip,question not asked	11221	10225	13004	12084	10594
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.R's current/former employ	172	115	160	122	114
2.Current S's current/forme	216	188	235	182	191
3.R's Union	1		1	3	
4.S's Union	4	2	2	5	2
6.Direct from Insurance Com	69	86	83	64	83
7.Group	33	17	13	17	17
9.Insurance Exchange					9
10.Other		6	3		5

Value	R2PRSRC3	R3PRSRC3	R6PRSRC3	R7PRSRC3
.D=DK			2	11
.G=Includes Gov't programs				4
.K=Can't ascertain		1		
.M=Oth missing			2	
.Q=Not asked this wv	8222	7027		
.R=RF			4	1
.S=Skip,question not asked	11346	10958	18093	20018
1.R's current/former employ			28	54
2.Current S's current/forme			10	14
3.R's Union			1	
5.Former S's Emp/Union			2	
6.Direct from Insurance Com			18	21
7.Group			2	6
8.Insurance Company/Group	74	5		
10.Other			3	

Value	R8PRSRC3	R9PRSRC3	R10PRSRC3	R11PRSRC3	R12PRSRC3
.D=DK	2	5	5	5	4
.G=Includes Gov't programs			2	3	
.R=RF			6	3	4
.S=Skip,question not asked	18398	17153	21900	20459	18613
1.R's current/former employ	39	39	79	54	83
2.Current S's current/forme	9	2	18	14	17
3.R's Union	2		1		
5.Former S's Emp/Union		2		3	1
6.Direct from Insurance Com	15	11	17	12	20
7.Group	3	4	4	1	3
9.Insurance Exchange					2
10.Other	1	1	2		

Value	S2PRSRC3	S3PRSRC3	S6PRSRC3	S7PRSRC3
.D=DK			1	6
.G=Includes Gov't programs				4
.K=Can't ascertain		1		
.M=Oth missing			1	
.Q=Not asked this wv	4549	3704		
.R=RF			2	1
.S=Skip,question not asked	8684	8302	11586	12894
.U=Unmarried	5970	5658	6306	6777
.V=Spouse NR	384	323	220	380
1.R's current/former employ			10	14
2.Current S's current/forme			21	38
5.Former S's Emp/Union			1	
6.Direct from Insurance Com			13	12
7.Group			1	3
8.Insurance Company/Group	55	3		
10.Other			3	

Value	S8PRSRC3	S9PRSRC3	S10PRSRC3	S11PRSRC3	S12PRSRC3
.D=DK	1	3	2	2	2
.G=Includes Gov't programs				1	
.R=RF			4	3	
.S=Skip,question not asked	11681	10601	13425	12425	10939
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.R's current/former employ	9	2	17	12	16
2.Current S's current/forme	33	30	53	33	52
4.S's Union	1				
5.Former S's Emp/Union				1	
6.Direct from Insurance Com	8	6	10	10	14
7.Group	2	3	2	1	2
9.Insurance Exchange					2
10.Other		1			

## How Constructed

RwPRSRC1, RwPRSRC2, and RwPRSRC3 indicate the source of the Respondent's private health insurance plan(s). These correspond with the plan listed in premium variables RwPRPRM1, RwPRPRM2, and RwPRPRM3. SwPRSRC1, SwPRSRC2, and SwPRSRC3 provide the information for the Respondent's spouse or partner.

In Waves 1 to 5, Respondents are asked about their private health insurance plans by type of plan (employer-provided, supplemental, purchased directly from an insurance company or group). The wording of these questions varies by wave and not all waves ask about all types separately.

In Wave 2H, for employer-provided health insurance, the source of the plan is not asked if (1) a preloaded value indicates that the Respondent reported being covered by employer-provided health insurance at Wave 1, and (2) if the Respondent indicates that s/he is still covered by that source. In this instance, source is coded from the Respondent's Wave 1 answers.

From Wave 6 on, Respondents are asked about their three most important private health insurance plans. The source is ascertained through a series of questions.

## Cross Wave Differences in Original HRS Data

In Wave 1, the health insurance questions are asked only of the Financial Respondent about the Financial Respondent's insurance coverage and, if married, their spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1, Respondents are asked, "Do you have any type of health insurance coverage, Medigap or other supplemental coverage, or long-term care insurance that is purchased directly from an insurance company or through a membership organization such as AARP (the American Association of Retired Persons)?" If R1PRPRM1 is not equal to .S (skipped), then R1PRSRC1 is set to "Direct from Insurance Company/Group," since this is the only source where premium amount is asked. Since there are no questions about the second or third premium or about employer-provided insurance premiums, there are no second or third source variables in Wave 1.

In Wave 2A, questions about private health insurance do not include any information about the source of the coverage. So for the AHEAD Respondents, if R2PRPRM1 is not equal to .S (skipped) then R2PRSRC1 is set to .Q, to indicate the question was not asked.

In Wave 2H, the Respondent is asked about employer-provided plans, other/supplemental plans, and plans purchased directly from an insurance company or group separately.

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1, the following question is asked: "According to our records, in [Wave 1 interview month] you were covered by health insurance from [source of plan preloaded from W1]. Are you still covered by the same employer health insurance policy as before?" If yes, no further questions on source of insurance are asked and source is coded from the Respondent's Wave 1 answers.

If the Respondent is the Financial Respondent in Wave 2H and says the pre-loaded information is incorrect, a follow-up question asks for a corrected source of insurance at the last interview and whether the Respondent is still covered. If the Respondent was not the Financial Respondent in Wave 1 and says the pre-loaded information is incorrect, or if the Respondent (Financial Respondent or not) responds with any answer except "yes," the Respondent is asked, "Thinking about (this/the first/the second) plan, how is this coverage obtained?"

In Wave 2H, the Respondent is then asked separately about plans purchased directly from an insurance company or group and supplemental plans purchased directly from an insurance company or group. If the corresponding premium variable R2PRPRMx is not equal to .S (skipped), then R2PRSRCx is set to "Direct from Insurance Company/Group," where "x" indicates the plan number 1 through 3. The one exception is for Respondents who list a Government plan under the supplemental plan question. In this case, R2PRPRMx and R2PRSRCx are set to .G to indicate a Government (not private) health care plan.

In Wave 3A, if the Respondent indicates having one private health insurance plan, s/he is asked about that plan. If the Respondent indicates having more than one private health insurance plan, s/he is asked about the first plan first, then about all other plans combined. For each round, the Respondent is asked, "How did you obtain this type of health insurance coverage? Was it through your (or your husband's/or your wife's/or your partner's) employer or union, or through an organization or what?" Respondents can list up to three sources. The first source listed is coded as R3PRSRCx, where "x" indicates the plan number, 1 to 3.

In Wave 3A, there was an error in a skip pattern: if the Respondent listed one private plan, the follow-up questions on source and premium amount were skipped. This issue affected 1,172 Respondents before it was discovered and fixed. For these individuals, the premium variable is coded as .M for other missing.

In Waves 3H, 4, and 5, the Respondent is separately asked about employer-provided plans, other/supplemental plans, and plans purchased directly from an insurance company or group.

For employer-provided plans, if a Respondent indicates having an employer-provided plan, then s/he is asked, "Do you obtain this health insurance through your (or your husband/wife/partner's) current employer, former employer or union, or from someplace else?"

The Respondent is then asked about supplemental plans. The source for supplemental plans cannot be ascertained in Wave 3H and is coded as .K to indicate that the Respondent has a plan but the source is unknown. The Respondent is then asked about plans purchased directly from an insurance company or group. If the corresponding premium variable RwPRPRMx is not equal to .S (skipped), then RwPRSRCx is set to "Direct from Insurance Company/Group," where x indicates the plan number 1 through 3.

From Wave 6 forward, Respondents are asked about their three most important private health insurance plans. The source is ascertained through a series of questions. The Respondent is asked the questions in order until the source is ascertained. RwPRSRCx is coded based on the Respondent's answers to the source questions, where "x" indicates the plan number 1 through 3.

First, if the Respondent currently works for pay, s/he is asked, "Do you obtain this health insurance through your (own business or professional organization/current employer)?"

Next, the Respondent is asked, "Do you obtain this health insurance through a former employer of yours?" If the Respondent is married or partnered, the next set of questions ask, "Do you obtain this health insurance through your (husband/wife/partner)'s current employer?" and then, "Do you obtain this health insurance through your (husband/wife/partner)'s former employer?"

The final source question asks, "Did you purchase this plan directly from an insurance company, through your (or your (husband/wife/partner)]'s/or your) union, through a group such as AARP, a church, or other organization, or what?" Some individuals list a federal, state, or military plan source for this question. In this case, the source variable is set to .G to indicate a Government (not private) health care plan.

In Wave 12, a new option to the final source question is added: "through an insurance exchange." This option was not available in prior waves.

## HRS Variables Used

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HRS 1992:
V6616          R4:R1EMP:#1:HOW OBTAINED
V6816          R27:R2EMP:#1:HOW OBTAINED
VP6632         R14:COV FRM INS CO:IMP/ Sp-Prtnr
VR6632         R14:COV FRM INS CO:IMP/ Self

HRS 1994:
W6705          R2-1.COVERED BY SAME POL
W6706          R2a-1.WHO PROVIDED HEALT
W6707          R2b-1.STILL COVERED BY W
W6708          R2-2a.STILL COVERED BY S
W6709          R2-2b.STILL COVERED BY S
W6724          R4.CURRENT HEALTH INS FR
W6726          P1. R5.HOW OBTAINED
W6740          P2. R5.HOW OBTAINED
W6754          R14.INSURANCE FROM COMPA
W6757          R14b.SUPPLEMENTARY HEALT

AHEAD 1995:
D5214          R9. OTHER HEALTH INSURANCE
D5215          R9A.# OTHER HEALTH INS
D5225M1        R10D-1. HOW OBTAIN OTHER HMO-1
D5225M2        R10D-2. HOW OBTAIN OTHER HMO-1
D5242M1        R11D-1. HOW OBTAIN OTHER HMO-1
D5242M2        R11D-2. HOW OBTAIN OTHER HMO-1

HRS 1996:
E5157          R12B.CHECKPOINT
E5161          R14.NUMBER OF EMPLOYER PROVIDED PLANS
E5163_1        R15.HOW OBTAIN INSURANCE
E5163_2        R15.HOW OBTAIN INSURANCE
E5218          R48.ANY OTHER HEALTH INSUR

HRS 1998:
F5894          R14.NUMBER OF PLANS
F5896          R15.HOW OBTAIN INSURANCE
F5938          R46.OTHER INSURANCE
F5950          R48.ANY OTHER HEALTH INSUR

HRS 2000:
G6266          R13.ANY INSURANCE THRU AN EMPLOYER
G6269          R15.HOW OBTAIN INSURANCE
G6312          R46.OTHER INSURANCE
G6324          R48.ANY HEALTH INSUR
G6325          R48B.ANY OTHER PURCHASED HEALTH INS

HRS 2002:
HN023          NUM PRIVATE HEALTH INS PLANS
HN033_1        OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
HN033_2        OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
HN033_3        OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
HN034_1        OBTAIN INS THRU FORMER EMPLOYER- 1
HN034_2        OBTAIN INS THRU FORMER EMPLOYER- 2
HN034_3        OBTAIN INS THRU FORMER EMPLOYER- 3
HN035_1        OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
HN035_2        OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
HN035_3        OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
HN036_1        OBTAIN INS THRU HWP FORMER EMPLOYER- 1
HN036_2        OBTAIN INS THRU HWP FORMER EMPLOYER- 2

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HN036\_3           OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
HN037\_1           WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
HN037\_2           WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
HN037\_3           WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
HRS 2004:  
JN023            NUM PRIVATE HEALTH INS PLANS  
JN033\_1          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
JN033\_2          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
JN033\_3          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
JN034\_1          OBTAIN INS THRU FORMER EMPLOYER- 1  
JN034\_2          OBTAIN INS THRU FORMER EMPLOYER- 2  
JN034\_3          OBTAIN INS THRU FORMER EMPLOYER- 3  
JN035\_1          OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
JN035\_2          OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
JN035\_3          OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
JN036\_1          OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
JN036\_2          OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
JN036\_3          OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
JN037\_1          WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
JN037\_2          WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
JN037\_3          WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
HRS 2006:  
KN023            NUM PRIVATE HEALTH INS PLANS  
KN033\_1          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
KN033\_2          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
KN033\_3          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
KN034\_1          OBTAIN INS THRU FORMER EMPLOYER- 1  
KN034\_2          OBTAIN INS THRU FORMER EMPLOYER- 2  
KN034\_3          OBTAIN INS THRU FORMER EMPLOYER- 3  
KN035\_1          OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
KN035\_2          OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
KN035\_3          OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
KN036\_1          OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
KN036\_2          OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
KN036\_3          OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
KN037\_1          WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
KN037\_2          WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
KN037\_3          WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
HRS 2008:  
LN023            NUM PRIVATE HEALTH INS PLANS  
LN033\_1          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
LN033\_2          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
LN033\_3          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
LN034\_1          OBTAIN INS THRU FORMER EMPLOYER- 1  
LN034\_2          OBTAIN INS THRU FORMER EMPLOYER- 2  
LN034\_3          OBTAIN INS THRU FORMER EMPLOYER- 3  
LN035\_1          OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
LN035\_2          OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
LN035\_3          OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
LN036\_1          OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
LN036\_2          OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
LN036\_3          OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
LN037\_1          WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
LN037\_2          WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
LN037\_3          WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
HRS 2010:  
MN023            NUM PRIVATE HEALTH INS PLANS  
MN033\_1          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
MN033\_2          OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2

MN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
MN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
MN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
MN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
MN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
MN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
MN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
MN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
MN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
MN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
MN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
MN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
MN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
NN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
NN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
NN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
NN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
NN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
NN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
NN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
NN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
NN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
NN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
NN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
NN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
NN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
NN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
NN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS
ON033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
ON033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
ON033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
ON034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
ON034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
ON034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
ON035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
ON035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
ON035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
ON036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
ON036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
ON036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
ON037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
ON037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
ON037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3

### Covered by health insurance from a current or previous employer

Wave	Variable	Label	Type
1	R1COVR	R1COVR:W1 R covered by R empl plan	Categ
2	R2COVR	R2COVR:W2 R covered by R empl plan	Categ
3	R3COVR	R3COVR:W3 R covered by R empl plan	Categ
4	R4COVR	R4COVR:W4 R covered by R empl plan	Categ
5	R5COVR	R5COVR:W5 R covered by R empl plan	Categ
6	R6COVR	R6COVR:W6 R covered by R empl plan	Categ
7	R7COVR	R7COVR:W7 R covered by R empl plan	Categ
8	R8COVR	R8COVR:W8 R covered by R empl plan	Categ
9	R9COVR	R9COVR:W9 R covered by R empl plan	Categ
10	R10COVR	R10COVR:W10 R covered by R empl plan	Categ
11	R11COVR	R11COVR:W11 R covered by R empl plan	Categ
12	R12COVR	R12COVR:W12 R covered by R empl plan	Categ
1	S1COVR	S1COVR:W1 S covered by R empl plan	Categ
2	S2COVR	S2COVR:W2 S covered by R empl plan	Categ
3	S3COVR	S3COVR:W3 S covered by R empl plan	Categ
4	S4COVR	S4COVR:W4 S covered by R empl plan	Categ
5	S5COVR	S5COVR:W5 S covered by R empl plan	Categ
6	S6COVR	S6COVR:W6 S covered by R empl plan	Categ
7	S7COVR	S7COVR:W7 S covered by R empl plan	Categ
8	S8COVR	S8COVR:W8 S covered by R empl plan	Categ
9	S9COVR	S9COVR:W9 S covered by R empl plan	Categ
10	S10COVR	S10COVR:W10 S covered by R empl plan	Categ
11	S11COVR	S11COVR:W11 S covered by R empl plan	Categ
12	S12COVR	S12COVR:W12 S covered by R empl plan	Categ
1	R1COVS	R1COVS:W1 R covered by S empl plan	Categ
2	R2COVS	R2COVS:W2 R covered by S empl plan	Categ
3	R3COVS	R3COVS:W3 R covered by S empl plan	Categ
4	R4COVS	R4COVS:W4 R covered by S empl plan	Categ
5	R5COVS	R5COVS:W5 R covered by S empl plan	Categ
6	R6COVS	R6COVS:W6 R covered by S empl plan	Categ
7	R7COVS	R7COVS:W7 R covered by S empl plan	Categ
8	R8COVS	R8COVS:W8 R covered by S empl plan	Categ
9	R9COVS	R9COVS:W9 R covered by S empl plan	Categ
10	R10COVS	R10COVS:W10 R covered by S empl plan	Categ
11	R11COVS	R11COVS:W11 R covered by S empl plan	Categ
12	R12COVS	R12COVS:W12 R covered by S empl plan	Categ
1	S1COVS	S1COVS:W1 S covered by S empl plan	Categ
2	S2COVS	S2COVS:W2 S covered by S empl plan	Categ
3	S3COVS	S3COVS:W3 S covered by S empl plan	Categ
4	S4COVS	S4COVS:W4 S covered by S empl plan	Categ
5	S5COVS	S5COVS:W5 S covered by S empl plan	Categ
6	S6COVS	S6COVS:W6 S covered by S empl plan	Categ
7	S7COVS	S7COVS:W7 S covered by S empl plan	Categ
8	S8COVS	S8COVS:W8 S covered by S empl plan	Categ
9	S9COVS	S9COVS:W9 S covered by S empl plan	Categ
10	S10COVS	S10COVS:W10 S covered by S empl plan	Categ
11	S11COVS	S11COVS:W11 S covered by S empl plan	Categ
12	S12COVS	S12COVS:W12 S covered by S empl plan	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVR	12464	0.46	0.50	0.0	1.0
R2COVR	11341	0.44	0.50	0.0	1.0
R3COVR	16010	0.37	0.48	0.0	1.0
R4COVR	20687	0.35	0.48	0.0	1.0
R5COVR	19447	0.34	0.48	0.0	1.0

R6COVR	17959	0.34	0.47	0.0	1.0
R7COVR	19931	0.35	0.48	0.0	1.0
R8COVR	18313	0.32	0.47	0.0	1.0
R9COVR	17052	0.29	0.45	0.0	1.0
R10COVR	21487	0.31	0.46	0.0	1.0
R11COVR	20255	0.29	0.45	0.0	1.0
R12COVR	18414	0.27	0.44	0.0	1.0
S1COVR	10167	0.33	0.47	0.0	1.0
S2COVR	8699	0.32	0.47	0.0	1.0
S3COVR	11064	0.24	0.42	0.0	1.0
S4COVR	13884	0.22	0.42	0.0	1.0
S5COVR	12787	0.24	0.43	0.0	1.0
S6COVR	11656	0.23	0.42	0.0	1.0
S7COVR	13081	0.23	0.42	0.0	1.0
S8COVR	11801	0.21	0.41	0.0	1.0
S9COVR	10711	0.20	0.40	0.0	1.0
S10COVR	13574	0.20	0.40	0.0	1.0
S11COVR	12568	0.18	0.38	0.0	1.0
S12COVR	11111	0.17	0.38	0.0	1.0
R1COVS	12465	0.27	0.44	0.0	1.0
R2COVS	11343	0.26	0.44	0.0	1.0
R3COVS	16226	0.18	0.39	0.0	1.0
R4COVS	20953	0.17	0.37	0.0	1.0
R5COVS	19462	0.18	0.38	0.0	1.0
R6COVS	17972	0.17	0.37	0.0	1.0
R7COVS	19938	0.17	0.38	0.0	1.0
R8COVS	18325	0.16	0.37	0.0	1.0
R9COVS	17070	0.15	0.35	0.0	1.0
R10COVS	21529	0.14	0.35	0.0	1.0
R11COVS	20272	0.13	0.33	0.0	1.0
R12COVS	18440	0.12	0.32	0.0	1.0
S1COVS	10166	0.45	0.50	0.0	1.0
S2COVS	8697	0.43	0.50	0.0	1.0
S3COVS	10706	0.40	0.49	0.0	1.0
S4COVS	13448	0.39	0.49	0.0	1.0
S5COVS	12670	0.38	0.49	0.0	1.0
S6COVS	11545	0.38	0.48	0.0	1.0
S7COVS	12901	0.37	0.48	0.0	1.0
S8COVS	11674	0.35	0.48	0.0	1.0
S9COVS	10573	0.32	0.47	0.0	1.0
S10COVS	13257	0.33	0.47	0.0	1.0
S11COVS	12362	0.31	0.46	0.0	1.0
S12COVS	10875	0.29	0.45	0.0	1.0

## Categorical Variable Codes

Value	R1COVR	R2COVR	R3COVR	R4COVR	R5COVR	R6COVR	R7COVR
.C=Cov,DK by whose emplyr	11	36	439	590	36		
.D=DK			46			66	69
.E=Cov,DK whether by emplyr			1401			83	87
.M=Oth missing	95	43	78	107	96	14	18
.Q=Not asked this wv		8222					
.R=RF			17			43	24
.T=Cov by oth,maybe ex-spou	82						
0.No	6673	6323	10107	13378	12739	11786	13048
1.Yes	5791	5018	5903	7309	6708	6173	6883

Value	R8COVR	R9COVR	R10COVR	R11COVR	R12COVR
.D=DK	66	85	144	130	142
.E=Cov,DK whether by emplyr	60	47	112	84	98
.M=Oth missing	15	17	251	49	48
.R=RF	15	16	40	36	45
0.No	12505	12099	14815	14478	13467
1.Yes	5808	4953	6672	5777	4947

Value	S1COVR	S2COVR	S3COVR	S4COVR	S5COVR	S6COVR	S7COVR
.C=Cov,DK by whose emplyr	6	25	158	236	17		
.D=DK			12			19	19
.E=Cov,DK whether by emplyr			795			30	24
.M=Oth missing	98	15	18	28	28	3	1
.Q=Not asked this wv		4549					
.R=RF			4			22	12
.T=Cov by oth,maybe ex-spou	8						
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	282	367	209	129	215
0.No	6782	5903	8451	10790	9721	9004	10080
1.Yes	3385	2796	2613	3094	3066	2652	3001

Value	S8COVR	S9COVR	S10COVR	S11COVR	S12COVR
.D=DK	25	21	38	51	57
.E=Cov,DK whether by emplyr	15	20	33	38	34
.M=Oth missing	3	3	121	6	12
.R=RF	5	9	13	12	15
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	203	247	456	405	391
0.No	9282	8604	10911	10306	9226
1.Yes	2519	2107	2663	2262	1885

Value	R1COVS	R2COVS	R3COVS	R4COVS	R5COVS	R6COVS	R7COVS
.C=Cov,DK by whose emplyr	9	36	218	330	31		
.D=DK			33			64	63
.E=Cov,DK whether by emplyr			1421			82	91
.M=Oth missing	98	41	77	101	86	12	17
.Q=Not asked this wv		8222					
.R=RF			16			35	20
.T=Cov by oth,maybe ex-spou	80						
0.No	9108	8406	13276	17478	15948	14948	16557
1.Yes	3357	2937	2950	3475	3514	3024	3381
Value	R8COVS	R9COVS	R10COVS	R11COVS	R12COVS		
.D=DK	59	69	130	121	127		
.E=Cov,DK whether by emplyr	57	47	110	84	96		
.M=Oth missing	15	16	230	44	45		
.R=RF	13	15	35	33	39		
0.No	15348	14561	18530	17662	16244		
1.Yes	2977	2509	2999	2610	2196		
Value	S1COVS	S2COVS	S3COVS	S4COVS	S5COVS	S6COVS	S7COVS
.C=Cov,DK by whose emplyr	10	25	379	496	22		
.D=DK			22			21	25
.E=Cov,DK whether by emplyr			781			38	28
.M=Oth missing	95	17	22	34	38	5	2
.Q=Not asked this wv		4549					
.R=RF			5			30	16
.T=Cov by oth,maybe ex-spou	8						
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	418	537	311	220	380
0.No	5574	4961	6389	8174	7836	7177	8078
1.Yes	4592	3736	4317	5274	4834	4368	4823
Value	S8COVS	S9COVS	S10COVS	S11COVS	S12COVS		
.D=DK	32	37	52	60	72		
.E=Cov,DK whether by emplyr	19	22	44	40	44		
.M=Oth missing	3	4	142	11	15		
.R=RF	7	10	18	15	21		
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	317	365	722	592	593		
0.No	7635	7201	8862	8546	7711		
1.Yes	4039	3372	4395	3816	3164		

## How Constructed

RwCOVR indicates whether the Respondent is covered by health insurance from her/his current or previous employer. SwCOVR indicates whether the Respondent's spouse or partner is covered by the Respondent's employer. RwCOVS indicates whether the Respondent is covered by her/his spouse's employer. SwCOVS indicates whether the Respondent's spouse is covered by the spouse's employer.

If the Respondent says s/he is covered by employer-provided health insurance, then the source of that insurance is checked. If the source of any plan that covers the Respondent is the Respondent's current or previous employer, the Respondent's union, or through the Respondent's self-employment then RwCOVR is set to "yes." If the source of any plan that covers the Respondent is the spouse's current or previous employer or the spouse's union, then RwCOVS is set to "yes."

In Wave 1, the Financial Respondent answers all questions. These are adjusted as appropriate for the non-Financial Respondent. The source of insurance in this wave could be given as other, including deceased or ex-spouse. Because of

the ambiguity of this code, if this is the only information available, RwCOVR and RwCOVS are set to .T, covered by other insurance including the possibility of an ex-spouse. In Versions prior to G, these cases were treated as missing source of coverage (.C).

In Wave 2H, the source of the plan is not asked if a preloaded value indicates that the Respondent reported being covered by employer-provided health insurance at Wave 1 and if the Respondent indicates that s/he is still covered by that source. The HRS documentation indicates that the preloaded value is taken from specific Wave 1 variables. In these cases, the Wave 1 variable is used to determine whether the plan that continues to cover the Respondent in Wave 2 is the Respondent's or the spouse's plan. If it is the Respondent's plan, then RwCOVR is set to "yes." If it is the spouse's plan, then RwCOVS is set to "yes."

If the preloaded value does not indicate Wave 1 coverage or if the Respondent does not say s/he is still covered by that source, then questions similar to the Wave 1 questions are asked, and if the source of any plan that covers the Respondent is the Respondent's current or previous employer, union, or own business, then RwCOVR is set to "yes." If the source of any plan that covers the Respondent is the spouse's current or previous employer, or union, then RwCOVS is set to "yes."

In Wave 2A, questions about non-government health insurance do not include any information about the source of the coverage. So for the AHEAD Respondents, R2COVR, R2COVS, and R2COVRT are set to the .Q SAS special missing value, to indicate that no information is available.

From Wave 3 forward, the questions do not depend on answers given in previous waves. In Wave 3A, a question asks if the Respondent is covered by any non-government health plan besides long-term care insurance. If any source of insurance is unknown, and none of the sources indicate the Respondent's employer, then RwCOVR is set to SAS special missing code .E, which means the Respondent is covered by health insurance, but it is unknown whether the source is an employer. Similarly, if any source is unknown, and none are the Respondent's spouse's employer RwCOVS is set to special missing code .E. Note that there were a large number of cases that skipped the questions about source of insurance, but had indicated that they had some insurance. In the RAND HRS Longitudinal File prior to version G, these cases had been coded as having no employer-provided insurance, but are now assigned .E. If no source is unknown, and none of the sources indicate the Respondent and the Respondent's spouse's employer, then RwCOVR and RwCOVS are set to "no," respectively.

In Waves 3H, 4 and 5, a question asks if the Respondent is covered by any employer-provided health insurance, or if self-employed, through the business. If no health insurance is reported in these questions, RwCOVR and RwCOVS are set to "no." If the Respondent reports having health insurance, the source-of-insurance questions are checked and RwCOVR is set to "yes" if the source is the Respondent's current or previous employer, or union. If the Respondent is self-employed and has health insurance through the business, then RwCOVR is set to "yes." RwCOVS is set to "yes" if the source is the spouse's current or previous employer, or union.

In Waves 3H and from Wave 4 forward, if the only source of coverage is the spouse's employer (current or previous) or union, then RwCOVR is set to "no." If the only source of coverage is the Respondent's employer (current or previous), union, or self-employment, then RwCOVS is set to "no." Otherwise if any source of coverage is "other," "don't know," or "refuse," then RwCOVR and RwCOVS are set to special missing .C, covered but don't know the source. This happens most often for self-employed Respondents in Waves 3H and 4 who did not have insurance through the business, but did through an employer. In Wave 3H and from Wave 4 on, if RwCOVS is .C and the spouse of the Respondent indicates whether or not the Respondent is covered by her/his (the spouse's) employer-provided insurance, then RwCOVS is set according to the spouse information.

Beginning in Wave 6, separate questions asked about particular sources of employer-provided health insurance for up to three plans. RwCOVR is set to "yes" if the source is the Respondent's current or previous employer, or union for any of the three plans. RwCOVS is set to "yes" if the source is the spouse's current or previous employer, or union for any

of the three plans. The self-employed are no longer asked this question separately; it is combined with current employer. There is no single question about whether the Respondent has any employer-provided insurance as there is in other waves. If the number of insurance plans is more than zero, but no source is provided in any of the questions, then we know that the Respondent has some health insurance, but we don't know if it is provided by an employer. These cases are coded with SAS special missing code .E, for covered by health insurance but unknown whether it is employer-provided. Note that in Versions prior to G, these cases were coded .C, covered but unknown by whose employer.

Because questions are skipped based on the Respondent's marital status in Waves 6 and 7, spouse's current or previous employer is not directly asked as the source if the Respondent is not married/partnered. In prior waves, there is no such limitation, and some reported a spouse's employer as the source of insurance even when not married. In the early releases of 2002 and 2004 data, many specified the source of insurance as other. In the final releases, HRS has recoded based on interviewer notes to indicate a former or deceased spouse's employer as the source when appropriate. Thus R6COVS and R7COVS may be lower than in other waves simply due to the skip pattern, but is significantly improved over those based on the early release data. From Wave 8 forward, this was changed so that ever-married single Respondents are asked if the source of insurance is from a former spouse's current or previous employer.

S1COVR and S1COVS for Wave 1 are taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1COVR and S1COVS are the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1COVR and S1COVS are the Financial Respondent's information.

From Wave 2 on, SwCOVR is taken from the spouse's self-reported RwCOVS variable (Respondent covered by spouse's plan), if available. SwCOVS is taken from the spouse's self-reported RwCOVR variable. For Wave 3H and from Wave 4 on, if the spouse's self-report is not available or missing, the question about coverage of others besides the Respondent is used to determine if the Respondent's spouse is covered by the Respondent's plan; if so, then SwCOVR is set to yes.

Please see "Plan specific employer-provided health insurance: Source of insurance and who is covered" for information on individual plans reported.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1, the private health insurance questions begin with:

"Do you have any type of health insurance coverage obtained through your [or your spouse's] employer, former employer or union, such as Blue Cross-Blue Shield or a Health Maintenance Organization?"

If "yes," the Financial Respondent is asked how many plans and the source of up to 2 plans. The source of insurance can be the Respondent's current or former employer, the Respondent's union, the Respondent's spouse's current or former employer or union, and other. If the Financial Respondent is married and reported having employer-provided health insurance, the first question about the spouse's private health insurance coverage is:

"You told me earlier that you obtain health insurance through an employer or union. Is your spouse covered by the same insurance plan(s)?"

If so, the Financial Respondent is then asked by which (if more than one plan). The questions then ask if the Financial Respondent's spouse is covered by any other employer-provided health insurance, and if so, the source of up to 2 plans.



This results in information on coverage of the Financial Respondent's spouse on up to 4 employer-provided health insurance plans. For the Financial Respondent in Wave 1, and for Waves 2H and 3, up to 2 insurance plans are asked about. From Wave 4 forward, only 1 employer-provided health insurance plan is asked about. The question wording asks for information about plans in order of importance.

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1, the following question is asked:

"According to our records, in [Wave 1 interview month] you were covered by health insurance from [source of plan preloaded from W1]. Are you still covered by the same employer health insurance policy as before?"

If "yes," no further questions on source of insurance are asked. If the Respondent is the Financial Respondent in Wave 2H and says the records show wrong coverage, a follow-up question asks for a corrected source of insurance at the last interview and whether the Respondent is still covered. If the Respondent was not the Financial Respondent in Wave 1 and says the records show wrong coverage, or if the Respondent (the Financial Respondent or not) responds with any other answer except "yes," questions almost identical to those asked in Wave 1 regarding coverage and its source are asked.

In Wave 2H, additional answers for the source of health insurance are possible. In particular, "Through own business" and "Purchased through own business/self-employment" are added to address the coverage of those self-employed.

In Wave 2A, questions about other health insurance are asked, but there are no questions to indicate whether the source of that insurance is a current or previous employer.

In Wave 3A, the question about other health insurance is followed up by asking the source of the insurance. Besides current or previous employers and unions of the Respondent and spouse, the source can be other organizations or self. There are two questions about source of coverage, one for the first, or most important plan, and the other about other plans, with the option to answer all that apply. If the number of plans was given as zero, both these questions were asked. In the derivation of this variable, a "don't know" or "refuse" response with regard to the other plans is ignored when the number of plans is zero. Since many valid responses are given about the source of the first plan when the number of plans is zero, we assume that there is at least one health plan. Due to an apparent skip problem in some versions of the HRS instrument, over 1,000 cases responded yes to the question about having other insurance, but then skipped all questions about its source.

In Wave 3H, 4 and 5, self-employed Respondents are asked: "Do you have health insurance through that business that pays hospital or doctor bills?" If self-employed and not covered through the business, or if not self-employed, the Respondent is asked if s/he is covered by any employer-provided health insurance.

If "yes," the source of the coverage is asked. Unfortunately, in Waves 3H and 4, the specific source of coverage was skipped if the Respondent was self-employed, not covered by the business, but was covered by an employer-provided insurance. This is corrected in Wave 5.

In Waves 6 and 7, the questions about sources of employer-provided health insurance are asked about up to three plans, and they are asked differently than in previous waves. The questions about source of insurance are asked separately, in the following order until the source is reported:

1. Only if the Respondent is working: "Do you obtain this health insurance through Current employer/Own Business of yours?"
2. "Do you obtain this health insurance through a former employer of yours?"
3. Only if the Respondent is married/partnered: "Do you obtain this health insurance through your spouse/partner's

### Current employer?"

4. Only if the Respondent is married/partnered: "Do you obtain this health insurance through your spouse/partner's former employer?"

5: "Did you purchase this plan directly from an insurance company, through your/your spouse's union, through a group such as AARP, a church, or other organization, or what?"

From Wave 8 forward, question 3 is also asked of those who are separated, divorced, or who have had their marriage annulled, with the following wording: "Do you obtain this health insurance through your former spouse/partner's Current employer?" Question 4 is asked of this expanded group and those who are widowed as: "Do you obtain this health insurance through your former spouse/partner's former employer?"

Note that in prior waves, the Respondent's current employer could be given as the source even if the Respondent is not working, and the spouse's employer could be given as the source even if the Respondent is not married or partnered. Former and deceased spouse's employers have been coded as the source if mentioned in response to the 5th question in the final release of 2002 (W6) and 2004 (W7) data.

For Wave 3H and from Wave 4 forward, if coverage is from the Respondent's employer or union, the Respondent is also asked who else is covered on this health insurance, and the response options include a code for spouse.

### HRS Variables Used

#### HRS 1992:

V6614	R3:R1EMPLR HLTH INS PLAN
V6615	R3A:R1EMP:#PLANS HAVE
V6616	R4:R1EMP:#1:HOW OBTAINED
V6624	R4:R1EMP:#2:HOW OBTAINED
V6813	R25:R2HAS OTHR EMP INS
V6814	R26:R2EMPLR HLTH INS PLN
V6815	R26A:R2EMP:#PLANS HAVE
V6816	R27:R2EMP:#1:HOW OBTAINED
V6824	R27:R2EMP:#2:HOW OBTAINED

#### HRS 1994:

W6705	R2-1.COVERED BY SAME POL
W6706	R2a-1.WHO PROVIDED HEALT
W6707	R2b-1.STILL COVERED BY W
W6708	R2-2a.STILL COVERED BY S
W6724	R4.CURRENT HEALTH INS FR
W6726	P1. R5.HOW OBTAINED
W6740	P2. R5.HOW OBTAINED

#### AHEAD 1995:

D5214	R9. OTHER HEALTH INSURANCE
D5215	R9A.# OTHER HEALTH INS
D5225M1	R10D-1. HOW OBTAIN OTHER HMO-1
D5225M2	R10D-2. HOW OBTAIN OTHER HMO-1
D5225M3	R10D. HOW OBTAIN OTHER HMO-1
D5242M1	R11D-1. HOW OBTAIN OTHER HMO-1
D5242M2	R11D-2. HOW OBTAIN OTHER HMO-1

#### HRS 1996:

E5158	R12X.SELF-EMP INSURANCE
E5160	R13.ANY EMPLR INSURANCE FOR HOSP/DR BILL
E5163_1	R15.HOW OBTAIN INSURANCE
E5163_2	R15.HOW OBTAIN INSURANCE

E5172_1	R19C.ANYONE ELSE COVERED
E5172_2	R19C.ANYONE ELSE COVERED
E5173001	R19D.WHO COVERED?
E5173002	R19D.WHO COVERED?
E5173003	R19D.WHO COVERED?
E5173004	R19D.WHO COVERED?
E5173005	R19D.WHO COVERED?
E5173011	R19D.WHO COVERED?
E5173012	R19D.WHO COVERED?
E5173013	R19D.WHO COVERED?
E5173014	R19D.WHO COVERED?
E5173015	R19D.WHO COVERED?
HRS 1998:	
F5891	R12X.SELF-EMP INSURANCE
F5893	R13.ANY INSURANCE FOR HOSP/DR BILLS
F5896	R15.HOW OBTAIN INSURANCE
F5906M1	R19D.WHO COVERED?
F5906M2	R19D.WHO COVERED?
F5906M3	R19D.WHO COVERED?
F5906M4	R19D.WHO COVERED?
F5906M5	R19D.WHO COVERED?
F5906M6	R19D.WHO COVERED?
HRS 2000:	
G6264	R12AA.SELF-EMP INSURANCE
G6266	R13.ANY INSURANCE THRU AN EMPLOYER
G6269	R15.HOW OBTAIN INSURANCE
G6279M1	R19D.WHO COVERED?
G6279M2	R19D.WHO COVERED?
G6279M3	R19D.WHO COVERED?
G6279M4	R19D.WHO COVERED?
G6279M5	R19D.WHO COVERED?
G6279M6	R19D.WHO COVERED?
G6279M7	R19D.WHO COVERED?
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
HN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
HN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
HN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
HN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
HN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
HN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
HN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
HN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
HN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
HN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
HN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
HN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
HN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
HN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
HN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
HN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
HN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
HN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
HN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
HN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
HN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
HN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6

HN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
HN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
HN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
HN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
HN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
HN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
HN049_3C	PRIV PLAN HI- WHO COVERED- 3- 2
HN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
JN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
JN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
JN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
JN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
JN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
JN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
JN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
JN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
JN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
JN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
JN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
JN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
JN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
JN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
JN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
JN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
JN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
JN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
JN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
JN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
JN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
JN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
JN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
JN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
JN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
JN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
JN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
JN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
JN049_2E	PRIV PLAN HI- WHO COVERED-2-5
JN049_2F	PRIV PLAN HI- WHO COVERED -2
JN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
JN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
JN049_3C	PRIV PLAN HI- WHO COVERED-3-3
JN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
JN049_3E	PRIV PLAN HI- WHO COVERED- 3- 5
JN049_3F	PRIV PLAN HI- WHO COVERED- 3- 6
HRS 2006:	
KN023	NUM PRIVATE HEALTH INS PLANS
KN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
KN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
KN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
KN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
KN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
KN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
KN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
KN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
KN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
KN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
KN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2

KN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
KN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
KN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
KN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
KN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
KN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
KN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
KN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
KN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
KN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
KN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
KN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
KN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
KN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
KN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
KN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
KN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
KN049_2E	PRIV PLAN HI- WHO COVERED -2- 5
KN049_2F	PRIV PLAN HI- WHO COVERED -2- 6
KN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
KN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
KN049_3C	PRIV PLAN HI- WHO COVERED- 3- 3
KN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
KN049_3E	PRIV PLAN HI- WHO COVERED- 3- 5
KN049_3F	PRIV PLAN HI- WHO COVERED- 3- 6

## HRS 2008:

LN023	NUM PRIVATE HEALTH INS PLANS
LN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
LN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
LN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
LN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
LN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
LN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
LN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
LN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
LN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
LN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
LN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
LN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
LN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
LN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
LN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
LN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
LN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
LN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
LN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
LN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
LN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
LN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
LN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
LN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
LN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
LN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
LN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
LN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
LN049_2E	PRIV PLAN HI- WHO COVERED -2- 5
LN049_2F	PRIV PLAN HI- WHO COVERED -2- 6
LN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
LN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2

LN049\_3C PRIV PLAN HI- WHO COVERED- 3- 3  
 LN049\_3D PRIV PLAN HI- WHO COVERED- 3- 4  
 HRS 2010:  
 MN023 NUM PRIVATE HEALTH INS PLANS  
 MN033\_1 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
 MN033\_2 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
 MN033\_3 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
 MN034\_1 OBTAIN INS THRU FORMER EMPLOYER- 1  
 MN034\_2 OBTAIN INS THRU FORMER EMPLOYER- 2  
 MN034\_3 OBTAIN INS THRU FORMER EMPLOYER- 3  
 MN035\_1 OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
 MN035\_2 OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
 MN035\_3 OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
 MN036\_1 OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
 MN036\_2 OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
 MN036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 MN037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 MN037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 MN037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 MN048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 MN048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 MN048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3  
 MN049\_1A PRIV PLAN HI- WHO COVERED- 1- 1  
 MN049\_1B PRIV PLAN HI- WHO COVERED- 1- 2  
 MN049\_1C PRIV PLAN HI- WHO COVERED- 1- 3  
 MN049\_1D PRIV PLAN HI- WHO COVERED- 1- 4  
 MN049\_1E PRIV PLAN HI- WHO COVERED- 1- 5  
 MN049\_1F PRIV PLAN HI- WHO COVERED- 1- 6  
 MN049\_2A PRIV PLAN HI- WHO COVERED- 2- 1  
 MN049\_2B PRIV PLAN HI- WHO COVERED- 2- 2  
 MN049\_2C PRIV PLAN HI- WHO COVERED- 2- 3  
 MN049\_2D PRIV PLAN HI- WHO COVERED- 2- 4  
 MN049\_2E PRIV PLAN HI- WHO COVERED -2- 5  
 MN049\_2F PRIV PLAN HI- WHO COVERED- 2- 6  
 MN049\_3A PRIV PLAN HI- WHO COVERED- 3- 1  
 MN049\_3B PRIV PLAN HI- WHO COVERED- 3- 2  
 MN049\_3C PRIV PLAN HI- WHO COVERED- 3- 3  
 MN049\_3D PRIV PLAN HI- WHO COVERED- 3- 4  
 MN049\_3E PRIV PLAN HI- WHO COVERED- 3- 4  
 HRS 2012:  
 NN023 NUM PRIVATE HEALTH INS PLANS  
 NN033\_1 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
 NN033\_2 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
 NN033\_3 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
 NN034\_1 OBTAIN INS THRU FORMER EMPLOYER- 1  
 NN034\_2 OBTAIN INS THRU FORMER EMPLOYER- 2  
 NN034\_3 OBTAIN INS THRU FORMER EMPLOYER- 3  
 NN035\_1 OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
 NN035\_2 OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
 NN035\_3 OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
 NN036\_1 OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
 NN036\_2 OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
 NN036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 NN037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 NN037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 NN037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 NN048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 NN048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 NN048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3

NN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
NN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
NN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
NN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
NN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
NN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
NN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
NN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
NN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
NN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
NN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
NN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
NN049_3C	PRIV PLAN HI- WHO COVERED- 3- 3
NN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS
ON033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
ON033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
ON033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
ON034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
ON034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
ON034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
ON035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
ON035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
ON035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
ON036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
ON036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
ON036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
ON037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
ON037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
ON037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
ON048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
ON048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
ON048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
ON049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
ON049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
ON049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
ON049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
ON049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
ON049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
ON049_1G	PRIV PLAN HI- WHO COVERED- 1- 7
ON049_1H	PRIV PLAN HI- WHO COVERED- 1- 8
ON049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
ON049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
ON049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
ON049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
ON049_2E	PRIV PLAN HI- WHO COVERED- 2- 5
ON049_2F	PRIV PLAN HI- WHO COVERED- 2- 6
ON049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
ON049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
ON049_3C	PRIV PLAN HI- WHO COVERED- 3- 3
ON049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT

### Whether employer-provided health plan covers retirees

Wave	Variable	Label	Type
1	R1COVRT	R1COVRT:W1 R plan covers retirees	Categ
2	R2COVRT	R2COVRT:W2 R plan covers retirees	Categ
3	R3COVRT	R3COVRT:W3 R plan covers retirees	Categ
4	R4COVRT	R4COVRT:W4 R plan covers retirees	Categ
5	R5COVRT	R5COVRT:W5 R plan covers retirees	Categ
6	R6COVRT	R6COVRT:W6 R plan covers retirees	Categ
7	R7COVRT	R7COVRT:W7 R plan covers retirees	Categ
8	R8COVRT	R8COVRT:W8 R plan covers retirees	Categ
9	R9COVRT	R9COVRT:W9 R plan covers retirees	Categ
10	R10COVRT	R10COVRT:W10 R plan covers retirees	Categ
11	R11COVRT	R11COVRT:W11 R plan covers retirees	Categ
12	R12COVRT	R12COVRT:W12 R plan covers retirees	Categ
1	S1COVRT	S1COVRT:W1 S plan covers retirees	Categ
2	S2COVRT	S2COVRT:W2 S plan covers retirees	Categ
3	S3COVRT	S3COVRT:W3 S plan covers retirees	Categ
4	S4COVRT	S4COVRT:W4 S plan covers retirees	Categ
5	S5COVRT	S5COVRT:W5 S plan covers retirees	Categ
6	S6COVRT	S6COVRT:W6 S plan covers retirees	Categ
7	S7COVRT	S7COVRT:W7 S plan covers retirees	Categ
8	S8COVRT	S8COVRT:W8 S plan covers retirees	Categ
9	S9COVRT	S9COVRT:W9 S plan covers retirees	Categ
10	S10COVRT	S10COVRT:W10 S plan covers retirees	Categ
11	S11COVRT	S11COVRT:W11 S plan covers retirees	Categ
12	S12COVRT	S12COVRT:W12 S plan covers retirees	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1COVRT	5072	0.77	0.42	0.0	1.0
R2COVRT	4854	0.70	0.46	0.0	1.0
R3COVRT	3683	0.65	0.48	0.0	1.0
R4COVRT	4224	0.63	0.48	0.0	1.0
R5COVRT	3737	0.64	0.48	0.0	1.0
R6COVRT	3037	0.67	0.47	0.0	1.0
R7COVRT	3739	0.60	0.49	0.0	1.0
R8COVRT	2885	0.61	0.49	0.0	1.0
R9COVRT	2385	0.60	0.49	0.0	1.0
R10COVRT	4076	0.49	0.50	0.0	1.0
R11COVRT	3545	0.48	0.50	0.0	1.0
R12COVRT	2944	0.50	0.50	0.0	1.0
S1COVRT	4089	0.78	0.42	0.0	1.0
S2COVRT	3840	0.72	0.45	0.0	1.0
S3COVRT	2746	0.65	0.48	0.0	1.0
S4COVRT	3135	0.63	0.48	0.0	1.0
S5COVRT	2812	0.65	0.48	0.0	1.0
S6COVRT	2268	0.67	0.47	0.0	1.0
S7COVRT	2737	0.60	0.49	0.0	1.0
S8COVRT	2113	0.62	0.49	0.0	1.0
S9COVRT	1741	0.60	0.49	0.0	1.0
S10COVRT	2730	0.49	0.50	0.0	1.0
S11COVRT	2381	0.47	0.50	0.0	1.0
S12COVRT	1955	0.48	0.50	0.0	1.0



## Categorical Variable Codes

Value	R1COVRT	R2COVRT	R3COVRT	R4COVRT	R5COVRT	R6COVRT	R7COVRT
.A=Already 65+			437	2245	2321	2633	2557
.D=DK		152	215	282	317	255	286
.H=Missing whether covrd	90	79	515	697	132	206	198
.M=Oth missing	862	9	111	130	13	215	274
.N=No plan	6628	6323	5639	13378	12739	11786	13048
.Q=Not asked this wv		8222	7027				
.R=RF		3	2	1		2	1
.S=Skip, not cur/prv emp pl			362	427	320	31	26
0.No	1150	1453	1301	1572	1352	999	1489
1.Yes	3922	3401	2382	2652	2385	2038	2250

Value	R8COVRT	R9COVRT	R10COVRT	R11COVRT	R12COVRT
.A=Already 65+	2429	2240	2047	1847	1702
.D=DK	277	176	291	160	133
.H=Missing whether covrd	156	165	547	299	333
.M=Oth missing	197	135	232	206	151
.N=No plan	12505	12099	14815	14478	13467
.R=RF			1	1	
.S=Skip, not cur/prv emp pl	20	17	25	18	17
0.No	1114	953	2079	1855	1480
1.Yes	1771	1432	1997	1690	1464

Value	S1COVRT	S2COVRT	S3COVRT	S4COVRT	S5COVRT	S6COVRT	S7COVRT
.A=Already 65+			386	1503	1528	1709	1649
.D=DK		100	151	208	232	195	205
.H=Missing whether covrd	10	54	493	660	93	151	113
.M=Oth missing	668	6	73	98	9	174	217
.N=No plan	5529	4827	4165	8044	7803	7120	8036
.Q=Not asked this wv		4549	3704				
.R=RF		1	2	1		2	
.S=Skip, not cur/prv emp pl			290	329	253	20	15
.U=Unmarried	2356	5970	5658	6869	6538	6306	6777
.V=Spouse NR		295	323	537	311	220	380
0.No	911	1063	959	1153	994	742	1100
1.Yes	3178	2777	1787	1982	1818	1526	1637

Value	S8COVRT	S9COVRT	S10COVRT	S11COVRT	S12COVRT
.A=Already 65+	1527	1389	1280	1153	1001
.D=DK	222	125	194	115	84
.H=Missing whether covrd	99	118	374	222	260
.M=Oth missing	162	105	176	156	115
.N=No plan	7597	7156	8744	8450	7603
.S=Skip, not cur/prv emp pl	15	12	15	11	9
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	810	693	1400	1261	1016
1.Yes	1303	1048	1330	1120	939

## How Constructed

RwCOVRT indicates whether the Respondent's employer-provided health insurance covers retirees. In Waves 1 and 2H, this is taken from a direct question that asks whether a plan covers retirees. In Wave 3H and from Wave 4 forward, it is taken from a question that asks about coverage up to age 65.

SwCOVRT indicates whether health insurance from the employer of the Respondent's spouse or partner covers retirees.

The number of insurance plans about which information is gathered varies across waves. In Wave 1, a question asks if the plan covers retirees, for each plan. If any plan provided by the Respondent's current or previous employer, or union covers retirees, then RwCOVRT is set to "yes." If no plan is provided by the Respondent's employer or union, then RwCOVRT is set to .N, no plan.

In Wave 2H, if the Respondent indicates that s/he is still covered by her/his own employer-provided health plan reported in Wave 1, the Wave 1 information is assumed to be correct for Wave 2H as well, i.e., R2COVRT is set to R1COVRT. If Wave 2H employer-provided health insurance is not a continuation of the preloaded Wave 1 coverage, the Wave 2H question about whether the plan covers retirees is used to set RwCOVRT. If any plan from the Respondent's current or previous employer, or union covers retirees, then RwCOVRT is set to "yes." If no plan is provided by the Respondent's employer or union, then RwCOVRT is set to .N, no plan.

In Wave 3H and from Wave 4 forward, this question is no longer asked. Another question asks if the plan would cover the Respondent up to age 65. Since this seems to be asking about insurance coverage of early retirees, this question was used for the RwCOVRT variables in Wave 3H and from Wave 4 forward. If coverage can continue to age 65, then RwCOVRT is set to yes. If the Respondent is already 65 then RwCOVRT is set to .A - already 65, and if the plan(s) are not from the Respondent's current or previous employer, RwCOVRT is set to .S - question skipped. Note that if the source of insurance is the Respondent's union or through self-employment, these questions are not asked, so RwCOVRT is set to .S. If the Respondent does not report being covered by the Respondent's employer, then RwCOVRT is set to .N - no plan.

In all waves, if missing whether the Respondent is covered, then RwCOVRT is set to .H, missing whether covered by employer-provided insurance. If the question was asked or should have been asked, and the answer is missing then RwCOVRT is set to .D for don't know, .R for refused, and .M for all other missing answers.

In Waves 2A and 3A, this question is not asked. In Wave 3A, special missing values are set for no insurance (.N), if the Respondent is older than 65 (.A), and if RwCOVR is missing (.H). For all other situations, and for everyone in Wave 2A, RwCOVRT is set to .Q to indicate that no information is available this wave.

SwCOVRT for Wave 1 is taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1COVRT is the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1COVRT is the Financial Respondent's information.

From Wave 2 on, this information is taken from the spouse's self-reported RwCOVRT variable, if available. If the Respondent is not married, SwCOVRT is set to .U=unmarried. If the Respondent's spouse did not respond then SwCOVRT is set to .V=Spouse is non-response.

Please see "Plan specific employer-provided health insurance: Coverage in retirement" for information on individual plans reported. These more detailed variables also provide information as to whether the coverage extends to those over 65 in the waves when this information is available.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1 a question asks if the plan covers retirees, for each plan (up to 4 between Respondent and spouse).

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1, the Respondent is asked if this coverage continues. If so then no question about whether the plan covers retirees is

asked. If not, or if not covered in Wave 1, current employer provided health insurance plans are asked about (up to 2). A question asks if the plan covers retirees for each plan.

In Wave 3H, and Wave 4 forward, the question about whether a plan covers retirees is no longer asked. Other questions ask if the plan would cover the Respondent up to age 65 if s/he left the job before age 65 (if from current employer), or if the plan could be continued to age 65 (if from previous employer). This question is skipped if the Respondent is already 65, or if the employer-provided health plan is not from either the Respondent's current or previous employer (e.g., it is NOT asked if the plan source is a union, spouse's employer, or through the Respondent's self-employment). From Wave 6 forward this question is asked for up to three plans.

In Waves 2A and 3A, no question about retiree coverage or coverage before age 65 is asked.

In some waves, if health insurance extends to age 65, a follow-up question asks if those over 65 may also be covered. The RwcOVRT variables do not provide any information from these follow-up questions. Please see "Plan specific employer-provided health insurance: Coverage in retirement" for information on individual plans reported. These more detailed variables also provide information as to whether the coverage extends to those over 65 in the waves when this information is available.

## HRS Variables Used

### HRS 1992:

V6614	R3:R1EMPLR HLTH INS PLAN
V6615	R3A:R1EMP:#PLANS HAVE
V6616	R4:R1EMP:#1:HOW OBTAINED
V6618	R7:R1#1:AVAIL FOR RTIREE
V6624	R4:R1EMP:#2:HOW OBTAINED
V6626	R7:R1#2:AVAIL FOR RTIREE
V6813	R25:R2HAS OTHR EMP INS
V6814	R26:R2EMPLR HLTH INS PLN
V6815	R26A:R2EMP:#PLANS HAVE
V6816	R27:R2EMP:#1:HOW OBTAINED
V6818	R30:R2#1:AVAIL FR RTIREE
V6824	R27:R2EMP:#2:HOW OBTAINED
V6826	R30:R2#2:AVAIL FR RTIREE

### HRS 1994:

W6705	R2-1.COVERED BY SAME POL
W6706	R2a-1.WHO PROVIDED HEALT
W6707	R2b-1.STILL COVERED BY W
W6708	R2-2a.STILL COVERED BY S
W6709	R2-2b.STILL COVERED BY S
W6724	R4.CURRENT HEALTH INS FR
W6726	P1. R5.HOW OBTAINED
W6734	P1. R8.AVAILABLE FOR RET
W6740	P2. R5.HOW OBTAINED
W6748	P2. R8.AVAILABLE FOR RET

### HRS 1996:

E5158	R12X.SELF-EMP INSURANCE
E5160	R13.ANY EMPLR INSURANCE FOR HOSP/DR BILL
E5163_1	R15.HOW OBTAIN INSURANCE
E5163_2	R15.HOW OBTAIN INSURANCE
E5191_1	R34.COVERAGE CONTINUE TO 65
E5191_2	R34.COVERAGE CONTINUE TO 65
E5194_1	R35.COVERAGE TO 65 IF LEFT NOW
E5194_2	R35.COVERAGE TO 65 IF LEFT NOW

### HRS 1998:

F5891	R12X.SELF-EMP INSURANCE
F5893	R13.ANY INSURANCE FOR HOSP/DR BILLS
F5896	R15.HOW OBTAIN INSURANCE
F5924	R34.COVERAGE CONTINUE TO 65
F5927	R35.COVERAGE TO 65 IF LEFT NOW
HRS 2000:	
G6264	R12AA.SELF-EMP INSURANCE
G6266	R13.ANY INSURANCE THRU AN EMPLOYER
G6269	R15.HOW OBTAIN INSURANCE
G6297	R34.COVERAGE CONTINUE TO 65
G6302	R35.COVERAGE TO 65 IF LEFT NOW
HRS 2002:	
HN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
HN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
HN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
HN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
HN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
HN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
HN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
HN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
HN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2004:	
JN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
JN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
JN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
JN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
JN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
JN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
JN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
JN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
JN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2006:	
KN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
KN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
KN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
KN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
KN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
KN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
KN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
KN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
KN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2008:	
LN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
LN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
LN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
LN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
LN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
LN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
LN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
LN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
LN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2010:	
MN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
MN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
MN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
MN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
MN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
MN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
MN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1

MN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
MN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2012:	
NN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
NN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
NN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
NN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
NN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
NN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
NN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
NN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
NN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HRS 2014:	
ON033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
ON033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
ON033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
ON034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
ON034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
ON034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
ON059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
ON059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
ON059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT

<b>Number of employer-provided/private health insurance plans</b>
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Wave	Variable	Label	Type
1	R1HENUM	R1HENUM:W1 Number of health insurance plans	Cont
2	R2HENUM	R2HENUM:W2 Number of health insurance plans	Cont
3	R3HENUM	R3HENUM:W3 Number of health insurance plans	Cont
4	R4HENUM	R4HENUM:W4 Number of health insurance plans	Cont
5	R5HENUM	R5HENUM:W5 Number of health insurance plans	Cont
6	R6HENUM	R6HENUM:W6 Number of health insurance plans	Cont
7	R7HENUM	R7HENUM:W7 Number of health insurance plans	Cont
8	R8HENUM	R8HENUM:W8 Number of health insurance plans	Cont
9	R9HENUM	R9HENUM:W9 Number of health insurance plans	Cont
10	R10HENUM	R10HENUM:W10 Number of health insurance plans	Cont
11	R11HENUM	R11HENUM:W11 Number of health insurance plans	Cont
12	R12HENUM	R12HENUM:W12 Number of health insurance plans	Cont
1	S1HENUM	S1HENUM:W1 Number of health insurance plans	Cont
2	S2HENUM	S2HENUM:W2 Number of health insurance plans	Cont
3	S3HENUM	S3HENUM:W3 Number of health insurance plans	Cont
4	S4HENUM	S4HENUM:W4 Number of health insurance plans	Cont
5	S5HENUM	S5HENUM:W5 Number of health insurance plans	Cont
6	S6HENUM	S6HENUM:W6 Number of health insurance plans	Cont
7	S7HENUM	S7HENUM:W7 Number of health insurance plans	Cont
8	S8HENUM	S8HENUM:W8 Number of health insurance plans	Cont
9	S9HENUM	S9HENUM:W9 Number of health insurance plans	Cont
10	S10HENUM	S10HENUM:W10 Number of health insurance plans	Cont
11	S11HENUM	S11HENUM:W11 Number of health insurance plans	Cont
12	S12HENUM	S12HENUM:W12 Number of health insurance plans	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HENUM	12497	0.77	0.58	0.0	4.0
R2HENUM	4762	0.31	0.52	0.0	4.0
R3HENUM	17838	0.69	0.58	0.0	6.0
R4HENUM	20871	0.54	0.59	0.0	6.0
R5HENUM	19163	0.54	0.58	0.0	7.0
R6HENUM	18042	0.74	0.56	0.0	11.0
R7HENUM	20018	0.73	0.62	0.0	23.0
R8HENUM	18373	0.67	0.57	0.0	12.0
R9HENUM	17099	0.62	0.61	0.0	13.0
R10HENUM	21599	0.61	0.60	0.0	12.0
R11HENUM	20339	0.57	0.59	0.0	11.0
R12HENUM	18512	0.57	0.65	0.0	21.0
S1HENUM	10124	0.82	0.58	0.0	4.0
S2HENUM	3328	0.36	0.54	0.0	4.0
S3HENUM	11857	0.75	0.58	0.0	6.0
S4HENUM	13632	0.64	0.60	0.0	6.0
S5HENUM	12440	0.64	0.59	0.0	4.0
S6HENUM	11583	0.81	0.54	0.0	5.0
S7HENUM	12929	0.80	0.60	0.0	23.0
S8HENUM	11693	0.74	0.56	0.0	12.0
S9HENUM	10595	0.70	0.61	0.0	13.0
S10HENUM	13301	0.67	0.59	0.0	12.0
S11HENUM	12402	0.63	0.59	0.0	11.0
S12HENUM	10919	0.64	0.65	0.0	21.0

## General Comments

Private health insurance plans encompass all plans purchased on the private market, including coverage purchased through an employer, the individual insurance marketplaces, a union, or a trade association. Previous versions of the RAND HRS Longitudinal File have included variables that describe private plans solely provided by current or former employers, and these variables are still provided for continuity purposes. RwPRPCNT is similar, but not identical, to RWHENUM. For Waves 1-5, RWHENUM is a count of employer-provided health insurance plans only, whereas RwPRPCNT is a count of all private health insurance plans, except long-term care insurance. From Wave 6 forward, RwPRPCNT and RWHENUM are the same, and both are a count of all private health insurance plans, except long-term care insurance. Please see the Number of private health insurance plans section for a full description of RwPRPCNT.

## How Constructed

RWHENUM is a count of the number of employer-provided/private health insurance plans the Respondent reports. This is taken from a direct question that asks, "How many plans do you have?"

For Waves 1-5, RWHENUM includes employer-provided health insurance plans only.

From Wave 6 forward, the RWHENUM includes all private health insurance plans.

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1 and the Respondent confirms this, the number of plans is not asked. In these cases the Respondent may confirm coverage from only one Wave 1 plan, so R2HENUM is set to .P = Covered in wave 1. It is unclear whether or not the Respondent has the same number of plans in Wave 2 as were reported in R1HENUM.

SwHENUM is a count of the number of health insurance plans the Respondent's spouse reports.

SwHENUM for Wave 1 is taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1HENUM is the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1HENUM is the Financial Respondent's information.

From Wave 2 on, this information is taken from the spouse's self-reported RWHENUM variable, if available. If the Respondent is not married, SwHENUM is set to .U=unmarried. If the Respondent's spouse did not respond, then SwHENUM is set to .V=Spouse is non-response.

## Cross Wave Differences in Original HRS Data

In Wave 1, the health insurance questions are asked only of the Financial Respondent about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1, a question asks how many plans does Respondent have.

In Wave 2H, if preloaded information indicates Respondent was covered by any employer-provided health insurance in Wave 1, the number of plans is not asked. If Respondent is not covered in Wave 1 but is in Wave 2H, then Respondent is asked how many plans s/he has.

This question is not asked in Wave 2A and R2HENUM is set to .Q for AHEAD Respondents.

From Wave 3 forward, Respondent is asked how many plans s/he has.

**HRS Variables Used**

HRS 1992:	
VP6614	R3:EMPLR HLTH INS PLAN/ Sp-Prtnr
VP6615	R3A:EMP:#PLANS HAVE/ Sp-Prtnr
VR6614	R3:EMPLR HLTH INS PLAN/ Self
VR6615	R3A:EMP:#PLANS HAVE/ Self
HRS 1994:	
W6705	R2-1.COVERED BY SAME POL
W6707	R2b-1.STILL COVERED BY W
W6708	R2-2a.STILL COVERED BY S
W6709	R2-2b.STILL COVERED BY S
W6724	R4.CURRENT HEALTH INS FR
W6725	R4a.# HEALTH INS PLANS F
AHEAD 1995:	
D5215	R9A.# OTHER HEALTH INS
HRS 1996:	
E5161	R14.NUMBER OF EMPLOYER PROVIDED PLANS
HRS 1998:	
F5894	R14.NUMBER OF PLANS
HRS 2000:	
G6267	R14.NUMBER OF PLANS
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
HRS 2006:	
KN023	NUM PRIVATE HEALTH INS PLANS
HRS 2008:	
LN023	NUM PRIVATE HEALTH INS PLANS
HRS 2010:	
MN023	NUM PRIVATE HEALTH INS PLANS
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT



<b>Plan-specific employer-provided health insurance: Source of insurance and who is covered</b>
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Wave	Variable	Label	Type
1	R1HESRC1	R1HESRC1:W1 Source of R empl plan #1	Categ
2	R2HESRC1	R2HESRC1:W2 Source of R empl plan #1	Categ
3	R3HESRC1	R3HESRC1:W3 Source of R empl plan #1	Categ
4	R4HESRC1	R4HESRC1:W4 Source of R empl plan #1	Categ
5	R5HESRC1	R5HESRC1:W5 Source of R empl plan #1	Categ
6	R6HESRC1	R6HESRC1:W6 Source of R empl plan #1	Categ
7	R7HESRC1	R7HESRC1:W7 Source of R empl plan #1	Categ
8	R8HESRC1	R8HESRC1:W8 Source of R empl plan #1	Categ
9	R9HESRC1	R9HESRC1:W9 Source of R empl plan #1	Categ
10	R10HESRC1	R10HESRC1:W10 Source of R empl plan #1	Categ
11	R11HESRC1	R11HESRC1:W11 Source of R empl plan #1	Categ
12	R12HESRC1	R12HESRC1:W12 Source of R empl plan #1	Categ
1	S1HESRC1	S1HESRC1:W1 Source of Sp empl plan #1	Categ
2	S2HESRC1	S2HESRC1:W2 Source of Sp empl plan #1	Categ
3	S3HESRC1	S3HESRC1:W3 Source of Sp empl plan #1	Categ
4	S4HESRC1	S4HESRC1:W4 Source of Sp empl plan #1	Categ
5	S5HESRC1	S5HESRC1:W5 Source of Sp empl plan #1	Categ
6	S6HESRC1	S6HESRC1:W6 Source of Sp empl plan #1	Categ
7	S7HESRC1	S7HESRC1:W7 Source of Sp empl plan #1	Categ
8	S8HESRC1	S8HESRC1:W8 Source of Sp empl plan #1	Categ
9	S9HESRC1	S9HESRC1:W9 Source of Sp empl plan #1	Categ
10	S10HESRC1	S10HESRC1:W10 Source of Sp empl plan #1	Categ
11	S11HESRC1	S11HESRC1:W11 Source of Sp empl plan #1	Categ
12	S12HESRC1	S12HESRC1:W12 Source of Sp empl plan #1	Categ
1	R1HESRC2	R1HESRC2:W1 Source of R empl plan #2	Categ
2	R2HESRC2	R2HESRC2:W2 Source of R empl plan #2	Categ
3	R3HESRC2	R3HESRC2:W3 Source of R empl plan #2	Categ
6	R6HESRC2	R6HESRC2:W6 Source of R empl plan #2	Categ
7	R7HESRC2	R7HESRC2:W7 Source of R empl plan #2	Categ
8	R8HESRC2	R8HESRC2:W8 Source of R empl plan #2	Categ
9	R9HESRC2	R9HESRC2:W9 Source of R empl plan #2	Categ
10	R10HESRC2	R10HESRC2:W10 Source of R empl plan #2	Categ
11	R11HESRC2	R11HESRC2:W11 Source of R empl plan #2	Categ
12	R12HESRC2	R12HESRC2:W12 Source of R empl plan #2	Categ
1	S1HESRC2	S1HESRC2:W1 Source of Sp empl plan #2	Categ
2	S2HESRC2	S2HESRC2:W2 Source of Sp empl plan #2	Categ
3	S3HESRC2	S3HESRC2:W3 Source of Sp empl plan #2	Categ
6	S6HESRC2	S6HESRC2:W6 Source of Sp empl plan #2	Categ
7	S7HESRC2	S7HESRC2:W7 Source of Sp empl plan #2	Categ
8	S8HESRC2	S8HESRC2:W8 Source of Sp empl plan #2	Categ
9	S9HESRC2	S9HESRC2:W9 Source of Sp empl plan #2	Categ
10	S10HESRC2	S10HESRC2:W10 Source of Sp empl plan #2	Categ
11	S11HESRC2	S11HESRC2:W11 Source of Sp empl plan #2	Categ
12	S12HESRC2	S12HESRC2:W12 Source of Sp empl plan #2	Categ
6	R6HESRC3	R6HESRC3:W6 Source of R empl plan #3	Categ
7	R7HESRC3	R7HESRC3:W7 Source of R empl plan #3	Categ
8	R8HESRC3	R8HESRC3:W8 Source of R empl plan #3	Categ
9	R9HESRC3	R9HESRC3:W9 Source of R empl plan #3	Categ
10	R10HESRC3	R10HESRC3:W10 Source of R empl plan #3	Categ
11	R11HESRC3	R11HESRC3:W11 Source of R empl plan #3	Categ
12	R12HESRC3	R12HESRC3:W12 Source of R empl plan #3	Categ
6	S6HESRC3	S6HESRC3:W6 Source of Sp empl plan #3	Categ
7	S7HESRC3	S7HESRC3:W7 Source of Sp empl plan #3	Categ
8	S8HESRC3	S8HESRC3:W8 Source of Sp empl plan #3	Categ
9	S9HESRC3	S9HESRC3:W9 Source of Sp empl plan #3	Categ
10	S10HESRC3	S10HESRC3:W10 Source of Sp empl plan #3	Categ
11	S11HESRC3	S11HESRC3:W11 Source of Sp empl plan #3	Categ
12	S12HESRC3	S12HESRC3:W12 Source of Sp empl plan #3	Categ
1	R1HECOV1	R1HECOV1:W1 Who is covered in R empl plan #1	Categ
2	R2HECOV1	R2HECOV1:W2 Who is covered in R empl plan #1	Categ

3	R3HECOV1	R3HECOV1:W3 Who is covered in R empl plan #1	Categ
4	R4HECOV1	R4HECOV1:W4 Who is covered in R empl plan #1	Categ
5	R5HECOV1	R5HECOV1:W5 Who is covered in R empl plan #1	Categ
6	R6HECOV1	R6HECOV1:W6 Who is covered in R empl plan #1	Categ
7	R7HECOV1	R7HECOV1:W7 Who is covered in R empl plan #1	Categ
8	R8HECOV1	R8HECOV1:W8 Who is covered in R empl plan #1	Categ
9	R9HECOV1	R9HECOV1:W9 Who is covered in R empl plan #1	Categ
10	R10HECOV1	R10HECOV1:W10 Who is covered in R empl plan #1	Categ
11	R11HECOV1	R11HECOV1:W11 Who is covered in R empl plan #1	Categ
12	R12HECOV1	R12HECOV1:W12 Who is covered in R empl plan #1	Categ
1	S1HECOV1	S1HECOV1:W1 Who is covered in Sp empl plan #1	Categ
2	S2HECOV1	S2HECOV1:W2 Who is covered in Sp empl plan #1	Categ
3	S3HECOV1	S3HECOV1:W3 Who is covered in Sp empl plan #1	Categ
4	S4HECOV1	S4HECOV1:W4 Who is covered in Sp empl plan #1	Categ
5	S5HECOV1	S5HECOV1:W5 Who is covered in Sp empl plan #1	Categ
6	S6HECOV1	S6HECOV1:W6 Who is covered in Sp empl plan #1	Categ
7	S7HECOV1	S7HECOV1:W7 Who is covered in Sp empl plan #1	Categ
8	S8HECOV1	S8HECOV1:W8 Who is covered in Sp empl plan #1	Categ
9	S9HECOV1	S9HECOV1:W9 Who is covered in Sp empl plan #1	Categ
10	S10HECOV1	S10HECOV1:W10 Who is covered in Sp empl plan #1	Categ
11	S11HECOV1	S11HECOV1:W11 Who is covered in Sp empl plan #1	Categ
12	S12HECOV1	S12HECOV1:W12 Who is covered in Sp empl plan #1	Categ
1	R1HECOV2	R1HECOV2:W1 Who is covered in R empl plan #2	Categ
2	R2HECOV2	R2HECOV2:W2 Who is covered in R empl plan #2	Categ
3	R3HECOV2	R3HECOV2:W3 Who is covered in R empl plan #2	Categ
6	R6HECOV2	R6HECOV2:W6 Who is covered in R empl plan #2	Categ
7	R7HECOV2	R7HECOV2:W7 Who is covered in R empl plan #2	Categ
8	R8HECOV2	R8HECOV2:W8 Who is covered in R empl plan #2	Categ
9	R9HECOV2	R9HECOV2:W9 Who is covered in R empl plan #2	Categ
10	R10HECOV2	R10HECOV2:W10 Who is covered in R empl plan #2	Categ
11	R11HECOV2	R11HECOV2:W11 Who is covered in R empl plan #2	Categ
12	R12HECOV2	R12HECOV2:W12 Who is covered in R empl plan #2	Categ
1	S1HECOV2	S1HECOV2:W1 Who is covered in Sp empl plan #2	Categ
2	S2HECOV2	S2HECOV2:W2 Who is covered in Sp empl plan #2	Categ
3	S3HECOV2	S3HECOV2:W3 Who is covered in Sp empl plan #2	Categ
6	S6HECOV2	S6HECOV2:W6 Who is covered in Sp empl plan #2	Categ
7	S7HECOV2	S7HECOV2:W7 Who is covered in Sp empl plan #2	Categ
8	S8HECOV2	S8HECOV2:W8 Who is covered in Sp empl plan #2	Categ
9	S9HECOV2	S9HECOV2:W9 Who is covered in Sp empl plan #2	Categ
10	S10HECOV2	S10HECOV2:W10 Who is covered in Sp empl plan #2	Categ
11	S11HECOV2	S11HECOV2:W11 Who is covered in Sp empl plan #2	Categ
12	S12HECOV2	S12HECOV2:W12 Who is covered in Sp empl plan #2	Categ
6	R6HECOV3	R6HECOV3:W6 Who is covered in R empl plan #3	Categ
7	R7HECOV3	R7HECOV3:W7 Who is covered in R empl plan #3	Categ
8	R8HECOV3	R8HECOV3:W8 Who is covered in R empl plan #3	Categ
9	R9HECOV3	R9HECOV3:W9 Who is covered in R empl plan #3	Categ
10	R10HECOV3	R10HECOV3:W10 Who is covered in R empl plan #3	Categ
11	R11HECOV3	R11HECOV3:W11 Who is covered in R empl plan #3	Categ
12	R12HECOV3	R12HECOV3:W12 Who is covered in R empl plan #3	Categ
6	S6HECOV3	S6HECOV3:W6 Who is covered in Sp empl plan #3	Categ
7	S7HECOV3	S7HECOV3:W7 Who is covered in Sp empl plan #3	Categ
8	S8HECOV3	S8HECOV3:W8 Who is covered in Sp empl plan #3	Categ
9	S9HECOV3	S9HECOV3:W9 Who is covered in Sp empl plan #3	Categ
10	S10HECOV3	S10HECOV3:W10 Who is covered in Sp empl plan #3	Categ
11	S11HECOV3	S11HECOV3:W11 Who is covered in Sp empl plan #3	Categ
12	S12HECOV3	S12HECOV3:W12 Who is covered in Sp empl plan #3	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HESRC1	12462	1.87	2.27	0.0	6.0

R2HESRC1	11294	0.95	0.75	0.0	2.0
R3HESRC1	16090	0.67	0.73	0.0	2.0
R4HESRC1	20687	0.64	0.72	0.0	2.0
R5HESRC1	19469	0.67	0.74	0.0	2.0
R6HESRC1	17968	0.68	0.79	0.0	3.0
R7HESRC1	19941	0.68	0.79	0.0	3.0
R8HESRC1	18320	0.65	0.80	0.0	3.0
R9HESRC1	17057	0.59	0.78	0.0	3.0
R10HESRC1	21499	0.59	0.76	0.0	3.0
R11HESRC1	20262	0.55	0.75	0.0	3.0
R12HESRC1	18422	0.51	0.74	0.0	3.0
S1HESRC1	10166	0.78	0.93	0.0	2.0
S2HESRC1	8706	1.17	0.81	0.0	2.0
S3HESRC1	10751	0.98	0.90	0.0	2.0
S4HESRC1	13448	0.97	0.90	0.0	2.0
S5HESRC1	12685	0.97	0.89	0.0	2.0
S6HESRC1	11551	0.96	0.89	0.0	3.0
S7HESRC1	12907	0.95	0.89	0.0	3.0
S8HESRC1	11679	0.88	0.89	0.0	3.0
S9HESRC1	10577	0.81	0.88	0.0	2.0
S10HESRC1	13265	0.83	0.89	0.0	2.0
S11HESRC1	12366	0.78	0.89	0.0	3.0
S12HESRC1	10879	0.73	0.88	0.0	2.0
R1HESRC2	7177	0.33	1.21	0.0	6.0
R2HESRC2	3483	0.05	0.28	0.0	2.0
R3HESRC2	7254	0.16	0.49	0.0	2.0
R6HESRC2	6359	0.12	0.43	0.0	3.0
R7HESRC2	7538	0.13	0.45	0.0	3.0
R8HESRC2	7512	0.09	0.38	0.0	3.0
R9HESRC2	7677	0.07	0.33	0.0	3.0
R10HESRC2	10151	0.07	0.34	0.0	3.0
R11HESRC2	10114	0.06	0.30	0.0	3.0
R12HESRC2	9419	0.06	0.31	0.0	3.0
S1HESRC2	6081	0.08	0.35	0.0	2.0
S2HESRC2	2298	0.05	0.27	0.0	2.0
S3HESRC2	4344	0.20	0.54	0.0	2.0
S6HESRC2	3467	0.18	0.52	0.0	3.0
S7HESRC2	4180	0.20	0.55	0.0	3.0
S8HESRC2	4151	0.15	0.48	0.0	2.0
S9HESRC2	4135	0.12	0.44	0.0	2.0
S10HESRC2	5511	0.12	0.43	0.0	2.0
S11HESRC2	5469	0.09	0.39	0.0	2.0
S12HESRC2	4979	0.10	0.41	0.0	2.0
R6HESRC3	5685	0.01	0.12	0.0	3.0
R7HESRC3	6699	0.01	0.13	0.0	2.0
R8HESRC3	6923	0.01	0.11	0.0	2.0
R9HESRC3	7182	0.01	0.09	0.0	3.0
R10HESRC3	9547	0.01	0.13	0.0	2.0
R11HESRC3	9615	0.01	0.12	0.0	3.0
R12HESRC3	8918	0.01	0.13	0.0	3.0
S6HESRC3	2946	0.02	0.19	0.0	3.0
S7HESRC3	3542	0.03	0.22	0.0	2.0
S8HESRC3	3698	0.02	0.20	0.0	2.0
S9HESRC3	3759	0.02	0.18	0.0	2.0

S10HESRC3	5090	0.02	0.21	0.0	2.0
S11HESRC3	5130	0.02	0.17	0.0	3.0
S12HESRC3	4639	0.03	0.22	0.0	2.0
R1HECOV1	8605	3.62	1.86	1.0	6.0
R2HECOV1	7769	2.74	0.97	1.0	5.0
R3HECOV1	8694	2.87	1.23	1.0	4.0
R4HECOV1	10842	1.63	0.93	1.0	3.0
R5HECOV1	9890	2.82	1.24	1.0	4.0
R6HECOV1	8927	2.24	0.98	1.0	4.0
R7HECOV1	9938	2.20	1.00	1.0	4.0
R8HECOV1	8580	2.16	0.99	1.0	4.0
R9HECOV1	7292	2.13	0.99	1.0	4.0
R10HECOV1	9432	2.07	1.00	1.0	4.0
R11HECOV1	8226	2.03	1.00	1.0	4.0
R12HECOV1	6976	2.01	1.01	1.0	4.0
S1HECOV1	4471	3.26	0.92	2.0	5.0
S2HECOV1	6359	3.24	0.95	1.0	5.0
S3HECOV1	6680	3.69	1.21	2.0	5.0
S4HECOV1	8227	2.40	0.49	2.0	3.0
S5HECOV1	7496	3.73	1.19	2.0	5.0
S6HECOV1	6732	2.81	0.42	2.0	5.0
S7HECOV1	7442	2.79	0.50	2.0	5.0
S8HECOV1	6303	2.76	0.43	2.0	5.0
S9HECOV1	5268	2.76	0.44	2.0	5.0
S10HECOV1	6692	2.72	0.47	2.0	5.0
S11HECOV1	5832	2.69	0.47	2.0	5.0
S12HECOV1	4804	2.70	0.48	2.0	5.0
R1HECOV2	746	3.81	1.87	1.0	6.0
R2HECOV2	103	3.83	0.71	1.0	4.0
R3HECOV2	802	3.23	1.16	1.0	4.0
R6HECOV2	514	2.40	0.92	1.0	4.0
R7HECOV2	670	2.34	0.97	1.0	4.0
R8HECOV2	483	2.28	0.96	1.0	3.0
R9HECOV2	377	2.24	0.98	1.0	4.0
R10HECOV2	541	2.10	1.00	1.0	4.0
R11HECOV2	419	2.06	1.00	1.0	4.0
R12HECOV2	431	2.06	1.00	1.0	4.0
S1HECOV2	369	3.03	0.70	2.0	5.0
S2HECOV2	83	5.00	0.00	5.0	5.0
S3HECOV2	632	4.15	1.17	2.0	5.0
S6HECOV2	424	2.85	0.40	2.0	5.0
S7HECOV2	551	2.82	0.52	2.0	5.0
S8HECOV2	393	2.78	0.42	2.0	3.0
S9HECOV2	305	2.76	0.49	2.0	5.0
S10HECOV2	398	2.69	0.46	2.0	3.0
S11HECOV2	312	2.67	0.49	2.0	5.0
S12HECOV2	307	2.69	0.48	2.0	5.0
R6HECOV3	41	2.22	0.99	1.0	3.0
R7HECOV3	68	2.29	0.96	1.0	3.0
R8HECOV3	50	2.20	0.99	1.0	3.0
R9HECOV3	43	2.12	1.00	1.0	3.0
R10HECOV3	98	2.14	0.99	1.0	3.0
R11HECOV3	71	2.14	1.02	1.0	4.0
R12HECOV3	101	2.01	1.00	1.0	3.0

S6HECOV3	32	2.75	0.44	2.0	3.0
S7HECOV3	52	2.85	0.36	2.0	3.0
S8HECOV3	43	2.70	0.46	2.0	3.0
S9HECOV3	32	2.72	0.46	2.0	3.0
S10HECOV3	70	2.77	0.42	2.0	3.0
S11HECOV3	46	2.80	0.54	2.0	5.0
S12HECOV3	68	2.74	0.44	2.0	3.0

## Categorical Variable Codes

Value	R1HESRC1	R2HESRC1	R3HESRC1	R4HESRC1	R5HESRC1	R6HESRC1	R7HESRC1
.C=Cov,DK by whose emplryr		7	399	590	14		
.D=DK	1	5	46	22	34		
.M=Oth missing	95	33	1250	69	49	123	111
.Q=Not asked this wv		8222					
.R=RF	10	18	17	16	13		
.T=Cov,DK whether by emplryr	84	63	189			74	77
0.No employer-provided insu	3952	3429	7795	10435	9593	9041	10003
1.Respondent	4732	4996	5823	7309	6708	6086	6778
2.Current Spouse	1031	2869	2472	2943	3168	2459	2748
3.Former Spouse						382	412
6.R is a covered non FINR(W	2747						

Value	R8HESRC1	R9HESRC1	R10HESRC1	R11HESRC1	R12HESRC1
.M=Oth missing	96	118	436	215	235
.T=Cov,DK whether by emplryr	53	42	99	77	90
0.No employer-provided insu	9740	9765	12067	12036	11446
1.Respondent	5742	4895	6598	5728	4887
2.Current Spouse	2366	2006	2490	2167	1795
3.Former Spouse	472	391	344	331	294

Value	S1HESRC1	S2HESRC1	S3HESRC1	S4HESRC1	S5HESRC1	S6HESRC1	S7HESRC1
.C=Cov,DK by whose emplryr		2	349	496	7		
.D=DK	1	2	22	8	19		
.M=Oth missing	95	12	696	16	10	56	43
.Q=Not asked this wv		4549					
.R=RF	9	13	5	10	9		
.T=Cov,DK whether by emplryr	8	4	92			32	22
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	418	537	311	220	380
0.No employer-provided insu	5713	2252	4420	5717	5196	4819	5465
1.Respondent	971	2735	2079	2457	2655	2418	2680
2.Current Spouse	3482	3719	4252	5274	4834	4300	4740
3.Former Spouse						14	22

Value	S8HESRC1	S9HESRC1	S10HESRC1	S11HESRC1	S12HESRC1
.M=Oth missing	42	51	212	86	108
.T=Cov,DK whether by emplryr	14	18	36	36	40
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No employer-provided insu	5376	5309	6573	6534	6075
1.Respondent	2310	1942	2357	2052	1685
2.Current Spouse	3984	3326	4335	3778	3119
3.Former Spouse	9			2	

Value	R1HESRC2	R2HESRC2	R3HESRC2	R6HESRC2	R7HESRC2
.C=Cov,DK by whose emplyr			24		
.D=DK		4	46		
.M=Oth missing	95	30	88	123	111
.P=Only one plan carried fr		6615			
.Q=Not asked this wv		8222			
.R=RF	2	10	17		
.T=Cov,DK whether by emplyr	7		183	9	15
.X=No more plans	5371	1278	10379	11674	12465
0.No employer-provided insu	6440	3381	6476	5845	6868
1.Respondent	219	41	404	286	380
2.Current Spouse	238	61	374	217	269
3.Former Spouse				11	21
6.R is a covered non FINR(W	280				

Value	R8HESRC2	R9HESRC2	R10HESRC2	R11HESRC2	R12HESRC2
.M=Oth missing	96	118	435	215	235
.T=Cov,DK whether by emplyr	11	4	13	11	15
.X=No more plans	10850	9418	11435	10214	9078
0.No employer-provided insu	7029	7300	9610	9695	8988
1.Respondent	293	243	345	273	294
2.Current Spouse	175	119	174	132	122
3.Former Spouse	15	15	22	14	15

Value	S1HESRC2	S2HESRC2	S3HESRC2	S6HESRC2	S7HESRC2
.C=Cov,DK by whose emplyr			22		
.D=DK		1	22		
.M=Oth missing	95	9	31	56	43
.P=Only one plan carried fr		5394			
.Q=Not asked this wv		4549			
.R=RF	1	7	5		
.T=Cov,DK whether by emplyr			99	4	9
.U=Unmarried	2373	5970	5658	6306	6777
.V=Spouse NR		384	418	220	380
.X=No more plans	4102	1030	7392	8112	8740
0.No employer-provided insu	5713	2215	3734	3043	3629
1.Respondent	223	52	331	215	263
2.Current Spouse	145	31	279	208	284
3.Former Spouse				1	4

Value	S8HESRC2	S9HESRC2	S10HESRC2	S11HESRC2	S12HESRC2
.M=Oth missing	42	51	212	86	108
.T=Cov,DK whether by emplyr	8	3	6	7	7
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7534	6457	7784	6926	5933
0.No employer-provided insu	3758	3830	5113	5157	4672
1.Respondent	173	115	161	125	114
2.Current Spouse	220	190	237	187	193

Value		R6HESRC3	R7HESRC3
.M=Oth missing		123	111
.T=Cov,DK whether by emplyr		6	12
.X=No more plans		12351	13307
0.No employer-provided insu		5644	6631
1.Respondent		29	54
2.Current Spouse		10	14
3.Former Spouse		2	

Value	R8HESRC3	R9HESRC3	R10HESRC3	R11HESRC3	R12HESRC3
.M=Oth missing	96	118	435	215	235
.T=Cov,DK whether by emplyr	2	5	11	8	8
.X=No more plans	11448	9912	12041	10716	9586
0.No employer-provided insu	6873	7139	9449	9544	8817
1.Respondent	41	39	80	54	83
2.Current Spouse	9	2	18	14	17
3.Former Spouse		2		3	1

Value		S6HESRC3	S7HESRC3
.M=Oth missing		56	43
.T=Cov,DK whether by emplyr		3	7
.U=Unmarried		6306	6777
.V=Spouse NR		220	380
.X=No more plans		8634	9380
0.No employer-provided insu		2914	3490
1.Respondent		10	14
2.Current Spouse		21	38
3.Former Spouse		1	

Value	S8HESRC3	S9HESRC3	S10HESRC3	S11HESRC3	S12HESRC3
.M=Oth missing	42	51	212	86	108
.T=Cov,DK whether by emplyr	1	3	6	5	2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7994	6833	8205	7267	6278
0.No employer-provided insu	3655	3727	5020	5084	4571
1.Respondent	9	2	17	12	16
2.Current Spouse	34	30	53	33	52
3.Former Spouse				1	

Value	R1HECOV1	R2HECOV1	R3HECOV1	R4HECOV1	R5HECOV1	R6HECOV1	R7HECOV1
.D=DK			221	22	34	69	71
.H=Source missing,question		20					
.M=Oth missing	95	202	1250	69	49	123	111
.N=None	3952	3429	7795	10435	9593	9041	10003
.Q=Not asked this wv		8222					
.R=RF			31	16	13	5	6
1.Respondent Only	1874	1574	2405	7420	2899	3427	4042
2.Spouse		211					
3.Both	3143	4678	2609	3422	3019	5454	5730
4.Respondent, DK Spouse	841	1293	3680		3972	46	166
5.Spouse, DK R		13					
6.R is a covered non FINR(W	2747						

Value	R8HECOV1	R9HECOV1	R10HECOV1	R11HECOV1	R12HECOV1
.D=DK	53	40	89	74	85
.M=Oth missing	96	118	436	215	235
.N=None	9740	9765	12067	12036	11446
.R=RF		2	10	3	5
1.Respondent Only	3631	3164	4391	3988	3453
3.Both	4929	4114	5004	4221	3498
4.Respondent, DK Spouse	20	14	37	17	25

Value	S1HECOV1	S2HECOV1	S3HECOV1	S4HECOV1	S5HECOV1	S6HECOV1	S7HECOV1
.D=DK			108	8	19	30	20
.H=Source missing,question		10					
.M=Oth missing	95	118	696	16	10	56	43
.N=None	5713	2252	4420	5717	5196	4819	5465
.Q=Not asked this wv		4549					
.R=RF			11	10	9	2	2
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	418	537	311	220	380
1.Respondent Only		208					
2.Spouse	593	449	1232	4950	1225	1358	1774
3.Both	2994	4486	2528	3277	2931	5347	5563
4.Respondent, DK Spouse		13					
5.Spouse, DK R	884	1203	2920		3340	27	105

Value	S8HECOV1	S9HECOV1	S10HECOV1	S11HECOV1	S12HECOV1
.D=DK	14	17	32	34	37
.M=Oth missing	42	51	212	86	108
.N=None	5376	5309	6573	6534	6075
.R=RF		1	4	2	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
2.Spouse	1500	1286	1954	1822	1498
3.Both	4796	3976	4714	3999	3288
5.Spouse, DK R	7	6	24	11	18



Value	R1HECOV2	R2HECOV2	R3HECOV2	R6HECOV2	R7HECOV2
.D=DK			222	5	13
.H=Source missing,question		13			
.M=Oth missing	95	30	88	123	111
.N=None	6440	3381	6476	5845	6868
.P=Only one plan carried fr		6615			
.Q=Not asked this wv		8222			
.R=RF			24	4	2
.X=No more plans	5371	1278	10379	11674	12465
1.Respondent Only	135	6	156	154	227
3.Both	299		150	358	431
4.Respondent, DK Spouse	32	97	496	2	12
6.R is a covered non FINR(W	280				

Value	R8HECOV2	R9HECOV2	R10HECOV2	R11HECOV2	R12HECOV2
.D=DK	8	3	8	9	10
.M=Oth missing	96	118	435	215	235
.N=None	7029	7300	9610	9695	8988
.R=RF	3	1	5	2	5
.X=No more plans	10850	9418	11435	10214	9078
1.Respondent Only	173	145	244	198	204
3.Both	310	229	296	220	226
4.Respondent, DK Spouse		3	1	1	1

Value	S1HECOV2	S2HECOV2	S3HECOV2	S6HECOV2	S7HECOV2
.D=DK			116	2	7
.H=Source missing,question		8			
.M=Oth missing	95	9	31	56	43
.N=None	5713	2215	3734	3043	3629
.P=Only one plan carried fr		5394			
.Q=Not asked this wv		4549			
.R=RF			10	2	2
.U=Unmarried	2373	5970	5658	6306	6777
.V=Spouse NR		384	418	220	380
.X=No more plans	4102	1030	7392	8112	8740
2.Spouse	54		84	69	121
3.Both	283		144	353	419
5.Spouse, DK R	32	83	404	2	11

Value	S8HECOV2	S9HECOV2	S10HECOV2	S11HECOV2	S12HECOV2
.D=DK	6	2	3	5	4
.M=Oth missing	42	51	212	86	108
.N=None	3758	3830	5113	5157	4672
.R=RF	2	1	3	2	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7534	6457	7784	6926	5933
2.Spouse	88	79	122	105	97
3.Both	305	223	276	206	209
5.Spouse, DK R		3		1	1

Value	R6HECOV3	R7HECOV3
.D=DK	2	11
.M=Oth missing	123	111
.N=None	5644	6631
.R=RF	4	1
.X=No more plans	12351	13307
1.Respondent Only	16	24
3.Both	25	44

Value	R8HECOV3	R9HECOV3	R10HECOV3	R11HECOV3	R12HECOV3
.D=DK	2	5	5	5	4
.M=Oth missing	96	118	435	215	235
.N=None	6873	7139	9449	9544	8817
.R=RF		6	3	4	
.X=No more plans	11448	9912	12041	10716	9586
1.Respondent Only	20	19	42	31	50
3.Both	30	24	56	39	51
4.Respondent, DK Spouse				1	

Value	S6HECOV3	S7HECOV3
.D=DK	1	6
.M=Oth missing	56	43
.N=None	2914	3490
.R=RF	2	1
.U=Unmarried	6306	6777
.V=Spouse NR	220	380
.X=No more plans	8634	9380
2.Spouse	8	8
3.Both	24	44

Value	S8HECOV3	S9HECOV3	S10HECOV3	S11HECOV3	S12HECOV3
.D=DK	1	3	2	2	2
.M=Oth missing	42	51	212	86	108
.N=None	3655	3727	5020	5084	4571
.R=RF		4	3		
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7994	6833	8205	7267	6278
2.Spouse	13	9	16	11	18
3.Both	30	23	54	34	50
5.Spouse, DK R				1	

## How Constructed

These variables provide source and coverage information about individual employer-provided health insurance plans. RwHESRCx, the source, may be a current or previous employer or union of the Respondent or spouse, and Respondent and spouse can be covered. If the Respondent is self-employed, health insurance provided by his business is considered employer-provided. There are variables for each plan. The number of plans for which information was collected varies from wave to wave. RwHESRCx indicates the source of the health insurance plan, where "x" denotes the plan number. RwHECOVx indicates who is covered under the plan.

For each plan the Respondent is asked for the source. If the plan is provided by the Respondent's business, current or previous employer or union, then we set RwHESRCx to "Respondent." If the plan comes from the Respondent's spouse's current or former employer or union or from an ex-spouse, then we set RwHESRCx to "Spouse."

We also collect information on who is covered under each insurance plan. If the Respondent reports that s/he is

covered but no-one else is covered, then RWHECOVx is set to "Respondent only covered." If the Respondent is not given an opportunity to report if anyone else is covered or answers "don't know" or "refused" to the anyone else covered question, then RWHECOVx is set to "Respondent, don't know about Spouse." If the Respondent reports that her/his spouse is also covered under the Respondent's plan, then RWHECOVx is set to "Both."

In Wave 1 only the Financial Respondent answered the questions. S/he is asked first about her/his primary plan and whether others are covered under this plan, and then s/he is asked if her/his spouse has any additional health insurance plans. So it is possible for the spouse to be covered under the Financial Respondent's plan and not have any additional plans. Then, R1HESRC1=6 is a special value indicating that the Respondent is a Non-Financial Respondent and is only covered under the Financial Respondent's primary plan. If the non-Financial Respondent also has an additional plan, the R1HESRC1 will contain information about the additional plan, and the spouse variables (S1HECOV) will hold the information regarding the Financial Respondent's plan. So it is important to look at the spouse variables as well as the Respondent variables to get a full picture of the non-Financial Respondent's coverage in Wave 1.

In Wave 2H, the source of the plan is not asked if a preloaded value indicates that the Respondent reported being covered by employer-provided health insurance at Wave 1 and if the Respondent indicates that s/he is still covered by that source. The HRS documentation indicates that the preloaded value is taken from specific Wave 1 variables. In these cases, the Wave 1 variable is used to determine whether the plan that continues to cover the Respondent in Wave 2 is the Respondent's or the spouse's plan. If it is the Respondent's plan then R2HESRCx is set to "Respondent." If it is the spouse's plan then R2HESRCx is set to "Spouse." If the preloaded value does not indicate Wave 1 coverage, or if the Respondent does not say s/he is still covered by that source, then questions similar to the Wave 1 questions are asked, and if the source of any plan that covers the Respondent is the Respondent's current or previous employer, union, or own business, then R2HESRCx is set to "Respondent." If the source of any plan that covers the Respondent is the spouse's current or previous employer, or union, then R2HESRCx is set to "Spouse."

In Wave 2A, questions about non-government health insurance do not include any information about the source of the coverage. So for the AHEAD Respondents, R2HESRCx and R2HECOVx are set to the .Q SAS special missing value, to indicate that no information is available.

From Wave 3 forward, the questions do not depend on answers given in previous waves. In Wave 3A, a question asks if the Respondent is covered by any non-government health plan besides long-term care insurance.

In Waves 3H, 4 and 5, a question asks if the Respondent is covered by any employer provided health insurance, or if self-employed, through the business. If no health insurance is reported in these questions RWHESRCx is set to "0" and RWHECOVx is set to .N - no employer related insurance. If the Respondent reports having health insurance, then RWHECOVx is set to "Respondent only." RWHESRCx is set to "Respondent" if the source is the Respondent's current or previous employer or union, or if the Respondent is self-employed and has health insurance through the business. If the Respondent reports that her/his spouse is also covered under this insurance, then RWHECOVx is set to "Both." RWHESRCx is set to "Spouse" if the source is the spouse's current or previous employer or union. If the Respondent doesn't know if anyone else is covered or reports that someone else is covered but doesn't know who, then RWHECOVx is set to "Respondent, don't know about spouse."

In Wave 3A, if the source of insurance is unknown (DK/RF), then RWHESRCx and RWHECOVx are set to missing (.D/.R). If no source is unknown and none of the sources indicate the Respondent's and the Respondent's spouse's employer, then RWHESRCx is set to "0" and RWHECOVx is set to .N.

In Wave 3H and from Wave 4 forward, if the Respondent reports employer-provided insurance but the source of coverage is "other," "don't know," or "refused" then RWHESRCx is set to special missing .C, covered but don't know the source. RWHECOVx is still reported and so it is possible for RWHESRCx to be a special missing and RWHECOVx not missing. This happens most often for self-employed Respondents in Waves 3H and 4 who did not have insurance through

the business but did through an employer. In Wave 3H and from Wave 4 on, if `RwHESRCx` is .C and the spouse of the Respondent indicates whether or not the Respondent is covered by her/his (the spouse's) employer-provided insurance, then `RwHESRCx` is set according to the spouse information.

Beginning in Wave 6, the self-employed are no longer asked the health insurance question separately; it is combined with current employer. Note that because questions are skipped based on the Respondent's marital status in Waves 6 and 7, spouse's current or previous employer is not directly asked as the source if the Respondent is not married/partnered. In prior waves, there is no such limitation, and some reported a spouse's employer as the source of insurance even when not married. From Wave 8 forward, ever-married Respondents are asked about former spouse's employers as the source of insurance.

`S1HESRCx` and `S1HECOVx` for Wave 1 are taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then `S1HESRCx` and `S1HECOVx` are the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then `S1HESRCx` and `S1HECOVx` are the Financial Respondent's information.

From Wave 2 on, `SwHESRCx` and `SwHECOVx` are derived from the spouse's self-reported `RwHESRCx` and `RwHECOVx` variables, if available.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1, the private health insurance questions begin with: "Do you have any type of health insurance coverage obtained through your [or your spouse's] employer, former employer or union, such as Blue Cross-Blue Shield or a Health Maintenance Organization?" If yes, the Financial Respondent is asked how many plans and the source of up to two plans. The source of insurance can be the Respondent's current or former employer, the Respondent's union, Respondent's spouse's current or former employer or union, and other. If the Financial Respondent is married and reported having employer-provided health insurance, the first question about the spouse's private health insurance coverage is: "You told me earlier that you obtain health insurance through an employer or union. Is your spouse covered by the same insurance plan(s)?"

If so, the Financial Respondent is then asked by which (if more than one plan). The questions then ask if the Financial Respondent's spouse is covered by any additional employer-provided health insurance, and if so, the source of up to two plans. We also collect information for up to two plans for the spouse. If the spouse is covered by the Financial Respondent's plan and also has additional plans, then we use additional information first and the Financial Respondent's plan information can be found in the `S1HESRCx` and `S1HECOVx` variables. If they do not have additional plans and are only covered by the Financial Respondent's plan, then we use the special value '6' to indicate that the Respondent is a covered Non-Financial Respondent.

So `R1HESRC1` is the first plan the Respondent reported to be covered under and `R1HERTR1` is the first plan the Respondent reported to be covered in retirement. The analyst must look at the source variable to see whose employer is providing the coverage. This is only true in Wave 1 - in later waves if the source is not the Respondent's employer, the retirement coverage questions are not asked. So in later waves when `SwHERTR1`=1, then `SwHESRC1`=2 (Spouse's employer). In Wave 2 if the Respondent says s/he is still covered under her/his Wave 1 plan, then we carry her/his first Wave 1 plan information forward.

The definition of these new insurance variables is slightly different from the more general ones (`RwCOVR/RwCOVS` and `RwCOVRT`) and the two sets do not always match up. For example, there are 9 cases in Wave 1 where the Respondent says s/he has one plan but gives information about two. For these cases `R1COVR`=1, but in the detailed variable derivation

the number of plans limits the plan information examined, so the second plan source is ignored. There are also 18 cases that have R2COVRT=1, but the detailed variables do not indicate coverage in retirement. For R2COVRT, the Wave 2 information is being carried forward from the second plan in Wave 1. The detailed variable derivation only carries information on one Wave 1 plan forward to Wave 2, so the detailed variable R2HERTR2 is set to .P instead of 1.

For the Financial Respondent in Wave 1, and for Waves 2H and 3, up to two insurance plans are asked about. In Waves 4 and 5, only one employer-provided health insurance plan is asked about. The question wording asks for information about plans in order of importance. From Wave 6 forward, data is collected about three plans.

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1, the following question is asked: "According to our records, in [Wave 1 interview month] you were covered by health insurance from [source of plan preloaded from W1]. Are you still covered by the same employer health insurance policy as before?" If yes, no further questions on source of insurance are asked. If the Respondent is the Financial Respondent in Wave 2H and says the records show wrong coverage, a follow-up question asks for a corrected source of insurance at the last interview and whether the Respondent is still covered. If the Respondent was not the Financial Respondent in Wave 1 and says the records show wrong coverage, or if the Respondent (Financial Respondent or not) responds with any other answer except "yes," questions almost identical to those asked in Wave 1 regarding coverage and its source are asked.

In Wave 2H, additional answers for the source of health insurance are possible. In particular, "Through own business" and "Purchased through own business/self-employment" are added to address the coverage of those self-employed.

In Wave 2A, questions about other health insurance are asked but there are no questions to indicate whether the source of that insurance is a current or previous employer.

In Wave 3A, the question about other health insurance is followed up by asking the source of the insurance. Besides current or previous employers and unions of the Respondent and spouse, the source can be other organizations or self. There are two questions about source of coverage, one for the first, or most important plan, and the other about other plans, with the option to answer all that apply.

In Waves 3H, 4 and 5, self-employed Respondents are asked: "Do you have health insurance through that business that pays hospital or doctor bills?" If self-employed and not covered through the business, or if not self-employed, the Respondent is asked if s/he is covered by any employer-provided health insurance. If "yes," the source of the coverage is asked. Unfortunately, in Waves 3H and 4, the specific source of coverage was skipped if the Respondent was self-employed, not covered by the business, but was covered by an employer-provided insurance. This is corrected in Wave 5.

In Waves 6 forward, the questions about sources of employer-provided health insurance are asked about up to three plans, and they are asked differently than in previous waves. The questions about source of insurance are asked separately, in the following order until the source is reported:

1. Only if the Respondent is working: "Do you obtain this health insurance through Current employer/Own Business of yours?"
2. "Do you obtain this health insurance through a former employer of yours?"
3. Only if the Respondent is married/partnered: "Do you obtain this health insurance through your spouse/partner's Current employer?"
4. Only if the Respondent is married/partnered: "Do you obtain this health insurance through your spouse/partner's former employer?"

5: "Did you purchase this plan directly from an insurance company, through your/your spouse's union, through a group such as AARP, a church, or other organization, or what?"

From Wave 8 forward, question 3 is also asked of those who are separated, divorced, or who have had their marriage annulled, with the following wording: "Do you obtain this health insurance through your former spouse/partner's Current employer?" Question 4 is asked of this expanded group and those who are widowed as: "Do you obtain this health insurance through your former spouse/partner's former employer?"

Note that in prior waves, the Respondent's current employer could be given as the source even if the Respondent is not working, and the spouse's employer could be given as the source even if the Respondent is not married or partnered. Former and deceased spouse's employers have been coded as the source if mentioned in response to the 5th question in the final release of 2002 (W6) and 2004 (W7) data.

For Wave 3H and from Wave 4 forward, if coverage is from the Respondent's employer or union, the Respondent is also asked who else is covered on this health insurance, and the response options include a code for spouse.

## HRS Variables Used

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HRS 1992:
V6614      R3:R1EMPLR HLTH INS PLAN
V6615      R3A:R1EMP:#PLANS HAVE
V6616      R4:R1EMP:#1:HOW OBTAINED
V6624      R4:R1EMP:#2:HOW OBTAINED
V6808      R22:R2COV BY R'S EMP INS
V6809      R23:CKPT:ONLY 1 PLAN/OTH
V6810      R24A:PLAN1 COV BOTH R SP
V6811      R24B:PLAN2 COVERS BOTH
V6813      R25:R2HAS OTHR EMP INS
V6814      R26:R2EMPLR HLTH INS PLN
V6815      R26A:R2EMP:#PLANS HAVE
V6816      R27:R2EMP:#1:HOW OBTAINED
V6824      R27:R2EMP:#2:HOW OBTAINED

HRS 1994:
W6705      R2-1.COVERED BY SAME POL
W6706      R2a-1.WHO PROVIDED HEALT
W6707      R2b-1.STILL COVERED BY W
W6708      R2-2a.STILL COVERED BY S
W6709      R2-2b.STILL COVERED BY S
W6724      R4.CURRENT HEALTH INS FR
W6726      P1. R5.HOW OBTAINED
W6740      P2. R5.HOW OBTAINED

AHEAD 1995:
D5214      R9. OTHER HEALTH INSURANCE
D5215      R9A.# OTHER HEALTH INS
D5225M1    R10D-1.  HOW OBTAIN OTHER HMO-1
D5225M2    R10D-2.  HOW OBTAIN OTHER HMO-1
D5225M3    R10D.  HOW OBTAIN OTHER HMO-1
D5242M1    R11D-1.  HOW OBTAIN OTHER HMO-1
D5242M2    R11D-2.  HOW OBTAIN OTHER HMO-1

HRS 1996:
E5158      R12X.SELF-EMP INSURANCE
E5160      R13.ANY EMPLR INSURANCE FOR HOSP/DR BILL
E5163_1    R15.HOW OBTAIN INSURANCE
E5163_2    R15.HOW OBTAIN INSURANCE
E5172_1    R19C.ANYONE ELSE COVERED

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E5172_2	R19C.ANYONE ELSE COVERED
E5173001	R19D.WHO COVERED?
E5173002	R19D.WHO COVERED?
E5173003	R19D.WHO COVERED?
E5173004	R19D.WHO COVERED?
E5173005	R19D.WHO COVERED?
E5173011	R19D.WHO COVERED?
E5173012	R19D.WHO COVERED?
E5173013	R19D.WHO COVERED?
E5173014	R19D.WHO COVERED?
E5173015	R19D.WHO COVERED?
HRS 1998:	
F5891	R12X.SELF-EMP INSURANCE
F5893	R13.ANY INSURANCE FOR HOSP/DR BILLS
F5896	R15.HOW OBTAIN INSURANCE
F5905	R19C.ANYONE ELSE COVERED
F5906M1	R19D.WHO COVERED?
F5906M2	R19D.WHO COVERED?
F5906M3	R19D.WHO COVERED?
F5906M4	R19D.WHO COVERED?
F5906M5	R19D.WHO COVERED?
F5906M6	R19D.WHO COVERED?
HRS 2000:	
G6264	R12AA.SELF-EMP INSURANCE
G6266	R13.ANY INSURANCE THRU AN EMPLOYER
G6269	R15.HOW OBTAIN INSURANCE
G6278	R19C.ANYONE ELSE COVERED
G6279M1	R19D.WHO COVERED?
G6279M2	R19D.WHO COVERED?
G6279M3	R19D.WHO COVERED?
G6279M4	R19D.WHO COVERED?
G6279M5	R19D.WHO COVERED?
G6279M6	R19D.WHO COVERED?
G6330	R54.IS ANYONE ELSE COVERED
G6331M1	R54A.WHO ELSE COVERED
G6331M2	R54A.WHO ELSE COVERED
G6331M3	R54A.WHO ELSE COVERED
G6331M4	R54A.WHO ELSE COVERED
G6331M5	R54A.WHO ELSE COVERED
G6331M6	R54A.WHO ELSE COVERED
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
HN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
HN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
HN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
HN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
HN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
HN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
HN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
HN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
HN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
HN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
HN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
HN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
HN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
HN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
HN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2

HN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
HN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
HN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
HN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
HN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
HN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
HN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
HN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
HN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
HN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
HN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
HN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
HN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
HN049_3C	PRIV PLAN HI- WHO COVERED- 3- 2
HN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
JN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
JN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
JN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
JN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
JN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
JN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
JN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
JN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
JN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
JN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
JN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
JN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
JN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
JN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
JN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
JN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
JN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
JN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
JN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
JN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
JN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
JN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
JN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
JN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
JN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
JN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
JN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
JN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
JN049_2E	PRIV PLAN HI- WHO COVERED-2-5
JN049_2F	PRIV PLAN HI- WHO COVERED -2
JN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
JN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
JN049_3C	PRIV PLAN HI- WHO COVERED-3-3
JN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
JN049_3E	PRIV PLAN HI- WHO COVERED- 3- 5
JN049_3F	PRIV PLAN HI- WHO COVERED- 3- 6
HRS 2006:	
KN023	NUM PRIVATE HEALTH INS PLANS
KN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
KN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
KN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
KN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1



KN034\_2 OBTAIN INS THRU FORMER EMPLOYER- 2  
 KN034\_3 OBTAIN INS THRU FORMER EMPLOYER- 3  
 KN035\_1 OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
 KN035\_2 OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
 KN035\_3 OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
 KN036\_1 OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
 KN036\_2 OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
 KN036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 KN037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 KN037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 KN037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 KN048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 KN048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 KN048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3  
 KN049\_1A PRIV PLAN HI- WHO COVERED- 1- 1  
 KN049\_1B PRIV PLAN HI- WHO COVERED- 1- 2  
 KN049\_1C PRIV PLAN HI- WHO COVERED- 1- 3  
 KN049\_1D PRIV PLAN HI- WHO COVERED- 1- 4  
 KN049\_1E PRIV PLAN HI- WHO COVERED- 1- 5  
 KN049\_1F PRIV PLAN HI- WHO COVERED- 1- 6  
 KN049\_2A PRIV PLAN HI- WHO COVERED- 2- 1  
 KN049\_2B PRIV PLAN HI- WHO COVERED- 2- 2  
 KN049\_2C PRIV PLAN HI- WHO COVERED- 2- 3  
 KN049\_2D PRIV PLAN HI- WHO COVERED- 2- 4  
 KN049\_2E PRIV PLAN HI- WHO COVERED -2- 5  
 KN049\_2F PRIV PLAN HI- WHO COVERED -2- 6  
 KN049\_3A PRIV PLAN HI- WHO COVERED- 3- 1  
 KN049\_3B PRIV PLAN HI- WHO COVERED- 3- 2  
 KN049\_3C PRIV PLAN HI- WHO COVERED- 3- 3  
 KN049\_3D PRIV PLAN HI- WHO COVERED- 3- 4  
 KN049\_3E PRIV PLAN HI- WHO COVERED- 3- 5  
 KN049\_3F PRIV PLAN HI- WHO COVERED- 3- 6

## HRS 2008:

LN023 NUM PRIVATE HEALTH INS PLANS  
 LN033\_1 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
 LN033\_2 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
 LN033\_3 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
 LN034\_1 OBTAIN INS THRU FORMER EMPLOYER- 1  
 LN034\_2 OBTAIN INS THRU FORMER EMPLOYER- 2  
 LN034\_3 OBTAIN INS THRU FORMER EMPLOYER- 3  
 LN035\_1 OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
 LN035\_2 OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
 LN035\_3 OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
 LN036\_1 OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
 LN036\_2 OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
 LN036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 LN037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 LN037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 LN037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 LN048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 LN048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 LN048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3  
 LN049\_1A PRIV PLAN HI- WHO COVERED- 1- 1  
 LN049\_1B PRIV PLAN HI- WHO COVERED- 1- 2  
 LN049\_1C PRIV PLAN HI- WHO COVERED- 1- 3  
 LN049\_1D PRIV PLAN HI- WHO COVERED- 1- 4  
 LN049\_1E PRIV PLAN HI- WHO COVERED- 1- 5  
 LN049\_1F PRIV PLAN HI- WHO COVERED- 1- 6  
 LN049\_2A PRIV PLAN HI- WHO COVERED- 2- 1

LN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
LN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
LN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
LN049_2E	PRIV PLAN HI- WHO COVERED -2- 5
LN049_2F	PRIV PLAN HI- WHO COVERED -2- 6
LN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
LN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
LN049_3C	PRIV PLAN HI- WHO COVERED- 3- 3
LN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
HRS 2010:	
MN023	NUM PRIVATE HEALTH INS PLANS
MN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
MN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
MN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
MN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
MN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
MN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
MN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
MN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
MN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
MN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
MN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2
MN036_3	OBTAIN INS THRU HWP FORMER EMPLOYER- 3
MN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
MN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
MN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
MN048_1	PRIV PLAN HI- ANYONE ELSE COVERED- 1
MN048_2	PRIV PLAN HI- ANYONE ELSE COVERED- 2
MN048_3	PRIV PLAN HI- ANYONE ELSE COVERED- 3
MN049_1A	PRIV PLAN HI- WHO COVERED- 1- 1
MN049_1B	PRIV PLAN HI- WHO COVERED- 1- 2
MN049_1C	PRIV PLAN HI- WHO COVERED- 1- 3
MN049_1D	PRIV PLAN HI- WHO COVERED- 1- 4
MN049_1E	PRIV PLAN HI- WHO COVERED- 1- 5
MN049_1F	PRIV PLAN HI- WHO COVERED- 1- 6
MN049_2A	PRIV PLAN HI- WHO COVERED- 2- 1
MN049_2B	PRIV PLAN HI- WHO COVERED- 2- 2
MN049_2C	PRIV PLAN HI- WHO COVERED- 2- 3
MN049_2D	PRIV PLAN HI- WHO COVERED- 2- 4
MN049_2E	PRIV PLAN HI- WHO COVERED -2- 5
MN049_2F	PRIV PLAN HI- WHO COVERED- 2- 6
MN049_3A	PRIV PLAN HI- WHO COVERED- 3- 1
MN049_3B	PRIV PLAN HI- WHO COVERED- 3- 2
MN049_3C	PRIV PLAN HI- WHO COVERED- 3- 3
MN049_3D	PRIV PLAN HI- WHO COVERED- 3- 4
MN049_3E	PRIV PLAN HI- WHO COVERED- 3- 4
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
NN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
NN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
NN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
NN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
NN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
NN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
NN035_1	OBTAIN INS THRU HWP CURRENT EMPLOYER- 1
NN035_2	OBTAIN INS THRU HWP CURRENT EMPLOYER- 2
NN035_3	OBTAIN INS THRU HWP CURRENT EMPLOYER- 3
NN036_1	OBTAIN INS THRU HWP FORMER EMPLOYER- 1
NN036_2	OBTAIN INS THRU HWP FORMER EMPLOYER- 2

NN036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 NN037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 NN037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 NN037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 NN048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 NN048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 NN048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3  
 NN049\_1A PRIV PLAN HI- WHO COVERED- 1- 1  
 NN049\_1B PRIV PLAN HI- WHO COVERED- 1- 2  
 NN049\_1C PRIV PLAN HI- WHO COVERED- 1- 3  
 NN049\_1D PRIV PLAN HI- WHO COVERED- 1- 4  
 NN049\_1E PRIV PLAN HI- WHO COVERED- 1- 5  
 NN049\_1F PRIV PLAN HI- WHO COVERED- 1- 6  
 NN049\_2A PRIV PLAN HI- WHO COVERED- 2- 1  
 NN049\_2B PRIV PLAN HI- WHO COVERED- 2- 2  
 NN049\_2C PRIV PLAN HI- WHO COVERED- 2- 3  
 NN049\_2D PRIV PLAN HI- WHO COVERED- 2- 4  
 NN049\_3A PRIV PLAN HI- WHO COVERED- 3- 1  
 NN049\_3B PRIV PLAN HI- WHO COVERED- 3- 2  
 NN049\_3C PRIV PLAN HI- WHO COVERED- 3- 3  
 NN049\_3D PRIV PLAN HI- WHO COVERED- 3- 4

## HRS 2014:

ON023 NUM PRIVATE HEALTH INS PLANS  
 ON033\_1 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
 ON033\_2 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
 ON033\_3 OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
 ON034\_1 OBTAIN INS THRU FORMER EMPLOYER- 1  
 ON034\_2 OBTAIN INS THRU FORMER EMPLOYER- 2  
 ON034\_3 OBTAIN INS THRU FORMER EMPLOYER- 3  
 ON035\_1 OBTAIN INS THRU HWP CURRENT EMPLOYER- 1  
 ON035\_2 OBTAIN INS THRU HWP CURRENT EMPLOYER- 2  
 ON035\_3 OBTAIN INS THRU HWP CURRENT EMPLOYER- 3  
 ON036\_1 OBTAIN INS THRU HWP FORMER EMPLOYER- 1  
 ON036\_2 OBTAIN INS THRU HWP FORMER EMPLOYER- 2  
 ON036\_3 OBTAIN INS THRU HWP FORMER EMPLOYER- 3  
 ON037\_1 WHERE PURCHASE PRIVATE PLAN INSURANCE- 1  
 ON037\_2 WHERE PURCHASE PRIVATE PLAN INSURANCE- 2  
 ON037\_3 WHERE PURCHASE PRIVATE PLAN INSURANCE- 3  
 ON048\_1 PRIV PLAN HI- ANYONE ELSE COVERED- 1  
 ON048\_2 PRIV PLAN HI- ANYONE ELSE COVERED- 2  
 ON048\_3 PRIV PLAN HI- ANYONE ELSE COVERED- 3  
 ON049\_1A PRIV PLAN HI- WHO COVERED- 1- 1  
 ON049\_1B PRIV PLAN HI- WHO COVERED- 1- 2  
 ON049\_1C PRIV PLAN HI- WHO COVERED- 1- 3  
 ON049\_1D PRIV PLAN HI- WHO COVERED- 1- 4  
 ON049\_1E PRIV PLAN HI- WHO COVERED- 1- 5  
 ON049\_1F PRIV PLAN HI- WHO COVERED- 1- 6  
 ON049\_1G PRIV PLAN HI- WHO COVERED- 1- 7  
 ON049\_1H PRIV PLAN HI- WHO COVERED- 1- 8  
 ON049\_2A PRIV PLAN HI- WHO COVERED- 2- 1  
 ON049\_2B PRIV PLAN HI- WHO COVERED- 2- 2  
 ON049\_2C PRIV PLAN HI- WHO COVERED- 2- 3  
 ON049\_2D PRIV PLAN HI- WHO COVERED- 2- 4  
 ON049\_2E PRIV PLAN HI- WHO COVERED- 2- 5  
 ON049\_2F PRIV PLAN HI- WHO COVERED- 2- 6  
 ON049\_3A PRIV PLAN HI- WHO COVERED- 3- 1  
 ON049\_3B PRIV PLAN HI- WHO COVERED- 3- 2  
 ON049\_3C PRIV PLAN HI- WHO COVERED- 3- 3  
 ON049\_3D PRIV PLAN HI- WHO COVERED- 3- 4

Tracker:

AFINR

1992 WHETHER FINANCIAL RESPONDENT

<b>Plan-specific employer-provided health insurance: Coverage in retirement</b>
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Wave	Variable	Label	Type
1	R1HERTR1	R1HERTR1:W1 R coverage by R in retirement #1	Categ
2	R2HERTR1	R2HERTR1:W2 R coverage by R in retirement #1	Categ
3	R3HERTR1	R3HERTR1:W3 R coverage by R in retirement #1	Categ
4	R4HERTR1	R4HERTR1:W4 R coverage by R in retirement #1	Categ
5	R5HERTR1	R5HERTR1:W5 R coverage by R in retirement #1	Categ
6	R6HERTR1	R6HERTR1:W6 R coverage by R in retirement #1	Categ
7	R7HERTR1	R7HERTR1:W7 R coverage by R in retirement #1	Categ
8	R8HERTR1	R8HERTR1:W8 R coverage by R in retirement #1	Categ
9	R9HERTR1	R9HERTR1:W9 R coverage by R in retirement #1	Categ
10	R10HERTR1	R10HERTR1:W10 R coverage by R in retirement #1	Categ
11	R11HERTR1	R11HERTR1:W11 R coverage by R in retirement #1	Categ
12	R12HERTR1	R12HERTR1:W12 R coverage by R in retirement #1	Categ
1	S1HERTR1	S1HERTR1:W1 R coverage by Sp in retirement #1	Categ
2	S2HERTR1	S2HERTR1:W2 R coverage by Sp in retirement #1	Categ
5	S5HERTR1	S5HERTR1:W5 R coverage by Sp in retirement #1	Categ
6	S6HERTR1	S6HERTR1:W6 R coverage by Sp in retirement #1	Categ
7	S7HERTR1	S7HERTR1:W7 R coverage by Sp in retirement #1	Categ
8	S8HERTR1	S8HERTR1:W8 R coverage by Sp in retirement #1	Categ
9	S9HERTR1	S9HERTR1:W9 R coverage by Sp in retirement #1	Categ
10	S10HERTR1	S10HERTR1:W10 R coverage by Sp in retirement #1	Categ
11	S11HERTR1	S11HERTR1:W11 R coverage by Sp in retirement #1	Categ
12	S12HERTR1	S12HERTR1:W12 R coverage by Sp in retirement #1	Categ
1	R1HERTR2	R1HERTR2:W1 R coverage by R in retirement #2	Categ
2	R2HERTR2	R2HERTR2:W2 R coverage by R in retirement #2	Categ
3	R3HERTR2	R3HERTR2:W3 R coverage by R in retirement #2	Categ
6	R6HERTR2	R6HERTR2:W6 R coverage by R in retirement #2	Categ
7	R7HERTR2	R7HERTR2:W7 R coverage by R in retirement #2	Categ
8	R8HERTR2	R8HERTR2:W8 R coverage by R in retirement #2	Categ
9	R9HERTR2	R9HERTR2:W9 R coverage by R in retirement #2	Categ
10	R10HERTR2	R10HERTR2:W10 R coverage by R in retirement #2	Categ
11	R11HERTR2	R11HERTR2:W11 R coverage by R in retirement #2	Categ
12	R12HERTR2	R12HERTR2:W12 R coverage by R in retirement #2	Categ
1	S1HERTR2	S1HERTR2:W1 R coverage by Sp in retirement #2	Categ
2	S2HERTR2	S2HERTR2:W2 R coverage by Sp in retirement #2	Categ
6	S6HERTR2	S6HERTR2:W6 R coverage by Sp in retirement #2	Categ
7	S7HERTR2	S7HERTR2:W7 R coverage by Sp in retirement #2	Categ
8	S8HERTR2	S8HERTR2:W8 R coverage by Sp in retirement #2	Categ
9	S9HERTR2	S9HERTR2:W9 R coverage by Sp in retirement #2	Categ
10	S10HERTR2	S10HERTR2:W10 R coverage by Sp in retirement #2	Categ
11	S11HERTR2	S11HERTR2:W11 R coverage by Sp in retirement #2	Categ
12	S12HERTR2	S12HERTR2:W12 R coverage by Sp in retirement #2	Categ
6	R6HERTR3	R6HERTR3:W6 R coverage by R in retirement #3	Categ
7	R7HERTR3	R7HERTR3:W7 R coverage by R in retirement #3	Categ
8	R8HERTR3	R8HERTR3:W8 R coverage by R in retirement #3	Categ
9	R9HERTR3	R9HERTR3:W9 R coverage by R in retirement #3	Categ
10	R10HERTR3	R10HERTR3:W10 R coverage by R in retirement #3	Categ
11	R11HERTR3	R11HERTR3:W11 R coverage by R in retirement #3	Categ
12	R12HERTR3	R12HERTR3:W12 R coverage by R in retirement #3	Categ
6	S6HERTR3	S6HERTR3:W6 R coverage by Sp in retirement #3	Categ
7	S7HERTR3	S7HERTR3:W7 R coverage by Sp in retirement #3	Categ
8	S8HERTR3	S8HERTR3:W8 R coverage by Sp in retirement #3	Categ
9	S9HERTR3	S9HERTR3:W9 R coverage by Sp in retirement #3	Categ
10	S10HERTR3	S10HERTR3:W10 R coverage by Sp in retirement #3	Categ
11	S11HERTR3	S11HERTR3:W11 R coverage by Sp in retirement #3	Categ
12	S12HERTR3	S12HERTR3:W12 R coverage by Sp in retirement #3	Categ
1	R1HERTS1	R1HERTS1:W1 Sp coverage by R in retirement #1	Categ
2	R2HERTS1	R2HERTS1:W2 Sp coverage by R in retirement #1	Categ
5	R5HERTS1	R5HERTS1:W5 Sp coverage by R in retirement #1	Categ
6	R6HERTS1	R6HERTS1:W6 Sp coverage by R in retirement #1	Categ
7	R7HERTS1	R7HERTS1:W7 Sp coverage by R in retirement #1	Categ

8	R8HERTS1	R8HERTS1:W8 Sp coverage by R in retirement #1	Categ
9	R9HERTS1	R9HERTS1:W9 Sp coverage by R in retirement #1	Categ
10	R10HERTS1	R10HERTS1:W10 Sp coverage by R in retirement #1	Categ
11	R11HERTS1	R11HERTS1:W11 Sp coverage by R in retirement #1	Categ
12	R12HERTS1	R12HERTS1:W12 Sp coverage by R in retirement #1	Categ
1	S1HERTS1	S1HERTS1:W1 Sp coverage by Sp in retirement #1	Categ
2	S2HERTS1	S2HERTS1:W2 Sp coverage by Sp in retirement #1	Categ
3	S3HERTS1	S3HERTS1:W3 Sp coverage by Sp in retirement #1	Categ
4	S4HERTS1	S4HERTS1:W4 Sp coverage by Sp in retirement #1	Categ
5	S5HERTS1	S5HERTS1:W5 Sp coverage by Sp in retirement #1	Categ
6	S6HERTS1	S6HERTS1:W6 Sp coverage by Sp in retirement #1	Categ
7	S7HERTS1	S7HERTS1:W7 Sp coverage by Sp in retirement #1	Categ
8	S8HERTS1	S8HERTS1:W8 Sp coverage by Sp in retirement #1	Categ
9	S9HERTS1	S9HERTS1:W9 Sp coverage by Sp in retirement #1	Categ
10	S10HERTS1	S10HERTS1:W10 Sp coverage by Sp in retirement #1	Categ
11	S11HERTS1	S11HERTS1:W11 Sp coverage by Sp in retirement #1	Categ
12	S12HERTS1	S12HERTS1:W12 Sp coverage by Sp in retirement #1	Categ
1	R1HERTS2	R1HERTS2:W1 Sp coverage by R in retirement #2	Categ
2	R2HERTS2	R2HERTS2:W2 Sp coverage by R in retirement #2	Categ
6	R6HERTS2	R6HERTS2:W6 Sp coverage by R in retirement #2	Categ
7	R7HERTS2	R7HERTS2:W7 Sp coverage by R in retirement #2	Categ
8	R8HERTS2	R8HERTS2:W8 Sp coverage by R in retirement #2	Categ
9	R9HERTS2	R9HERTS2:W9 Sp coverage by R in retirement #2	Categ
10	R10HERTS2	R10HERTS2:W10 Sp coverage by R in retirement #2	Categ
11	R11HERTS2	R11HERTS2:W11 Sp coverage by R in retirement #2	Categ
12	R12HERTS2	R12HERTS2:W12 Sp coverage by R in retirement #2	Categ
1	S1HERTS2	S1HERTS2:W1 Sp coverage by Sp in retirement #2	Categ
2	S2HERTS2	S2HERTS2:W2 Sp coverage by Sp in retirement #2	Categ
3	S3HERTS2	S3HERTS2:W3 Sp coverage by Sp in retirement #2	Categ
6	S6HERTS2	S6HERTS2:W6 Sp coverage by Sp in retirement #2	Categ
7	S7HERTS2	S7HERTS2:W7 Sp coverage by Sp in retirement #2	Categ
8	S8HERTS2	S8HERTS2:W8 Sp coverage by Sp in retirement #2	Categ
9	S9HERTS2	S9HERTS2:W9 Sp coverage by Sp in retirement #2	Categ
10	S10HERTS2	S10HERTS2:W10 Sp coverage by Sp in retirement #2	Categ
11	S11HERTS2	S11HERTS2:W11 Sp coverage by Sp in retirement #2	Categ
12	S12HERTS2	S12HERTS2:W12 Sp coverage by Sp in retirement #2	Categ
6	R6HERTS3	R6HERTS3:W6 Sp coverage by R in retirement #3	Categ
7	R7HERTS3	R7HERTS3:W7 Sp coverage by R in retirement #3	Categ
8	R8HERTS3	R8HERTS3:W8 Sp coverage by R in retirement #3	Categ
9	R9HERTS3	R9HERTS3:W9 Sp coverage by R in retirement #3	Categ
10	R10HERTS3	R10HERTS3:W10 Sp coverage by R in retirement #3	Categ
11	R11HERTS3	R11HERTS3:W11 Sp coverage by R in retirement #3	Categ
12	R12HERTS3	R12HERTS3:W12 Sp coverage by R in retirement #3	Categ
6	S6HERTS3	S6HERTS3:W6 Sp coverage by Sp in retirement #3	Categ
7	S7HERTS3	S7HERTS3:W7 Sp coverage by Sp in retirement #3	Categ
8	S8HERTS3	S8HERTS3:W8 Sp coverage by Sp in retirement #3	Categ
9	S9HERTS3	S9HERTS3:W9 Sp coverage by Sp in retirement #3	Categ
10	S10HERTS3	S10HERTS3:W10 Sp coverage by Sp in retirement #3	Categ
11	S11HERTS3	S11HERTS3:W11 Sp coverage by Sp in retirement #3	Categ
12	S12HERTS3	S12HERTS3:W12 Sp coverage by Sp in retirement #3	Categ
1	R1HERET	R1HERET:W1 R covered in retirement /summary	Categ
2	R2HERET	R2HERET:W2 R covered in retirement /summary	Categ
3	R3HERET	R3HERET:W3 R covered in retirement /summary	Categ
4	R4HERET	R4HERET:W4 R covered in retirement /summary	Categ
5	R5HERET	R5HERET:W5 R covered in retirement /summary	Categ
6	R6HERET	R6HERET:W6 R covered in retirement /summary	Categ
7	R7HERET	R7HERET:W7 R covered in retirement /summary	Categ
8	R8HERET	R8HERET:W8 R covered in retirement /summary	Categ
9	R9HERET	R9HERET:W9 R covered in retirement /summary	Categ
10	R10HERET	R10HERET:W10 R covered in retirement /summary	Categ
11	R11HERET	R11HERET:W11 R covered in retirement /summary	Categ
12	R12HERET	R12HERET:W12 R covered in retirement /summary	Categ
1	S1HERET	S1HERET:W1 S covered in retirement /summary	Categ
2	S2HERET	S2HERET:W2 S covered in retirement /summary	Categ
3	S3HERET	S3HERET:W3 S covered in retirement /summary	Categ

4	S4HERET	S4HERET:W4 S covered in retirement /summary	Categ
5	S5HERET	S5HERET:W5 S covered in retirement /summary	Categ
6	S6HERET	S6HERET:W6 S covered in retirement /summary	Categ
7	S7HERET	S7HERET:W7 S covered in retirement /summary	Categ
8	S8HERET	S8HERET:W8 S covered in retirement /summary	Categ
9	S9HERET	S9HERET:W9 S covered in retirement /summary	Categ
10	S10HERET	S10HERET:W10 S covered in retirement /summary	Categ
11	S11HERET	S11HERET:W11 S covered in retirement /summary	Categ
12	S12HERET	S12HERET:W12 S covered in retirement /summary	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HERTR1	6812	3.34	1.48	0.0	4.0
R2HERTR1	6193	3.36	1.47	0.0	4.0
R3HERTR1	3646	1.28	0.96	0.0	2.0
R4HERTR1	4224	1.26	0.97	0.0	2.0
R5HERTR1	3737	1.37	1.27	0.0	3.0
R6HERTR1	3001	1.43	1.27	0.0	3.0
R7HERTR1	3701	1.23	1.25	0.0	3.0
R8HERTR1	2855	1.29	1.26	0.0	3.0
R9HERTR1	2360	1.22	1.24	0.0	3.0
R10HERTR1	4037	0.96	1.19	0.0	3.0
R11HERTR1	3520	0.93	1.19	0.0	3.0
R12HERTR1	2920	1.03	1.24	0.0	3.0
S1HERTR1	3061	3.55	1.26	0.0	4.0
S2HERTR1	4816	3.50	1.32	0.0	4.0
S5HERTR1	1039	2.03	1.12	0.0	3.0
S6HERTR1	2079	1.23	1.33	0.0	3.0
S7HERTR1	2462	0.98	1.27	0.0	3.0
S8HERTR1	241	1.39	1.29	0.0	3.0
S9HERTR1	197	1.47	1.29	0.0	3.0
S10HERTR1	247	1.22	1.26	0.0	3.0
S11HERTR1	237	1.22	1.23	0.0	3.0
S12HERTR1	605	1.59	1.28	0.0	3.0
R1HERTR2	549	3.49	1.34	0.0	4.0
R2HERTR2	68	3.00	1.74	0.0	4.0
R3HERTR2	196	1.15	0.99	0.0	2.0
R6HERTR2	137	1.39	1.20	0.0	3.0
R7HERTR2	201	1.29	1.24	0.0	3.0
R8HERTR2	142	1.10	1.19	0.0	3.0
R9HERTR2	106	1.11	1.24	0.0	3.0
R10HERTR2	202	1.02	1.18	0.0	3.0
R11HERTR2	140	1.17	1.27	0.0	3.0
R12HERTR2	155	1.19	1.28	0.0	3.0
S1HERTR2	283	3.46	1.37	0.0	4.0
S2HERTR2	56	3.07	1.70	0.0	4.0
S6HERTR2	99	1.08	1.24	0.0	3.0
S7HERTR2	145	0.80	1.18	0.0	3.0
S8HERTR2	9	1.44	1.13	0.0	3.0
S9HERTR2	9	1.22	1.30	0.0	3.0
S10HERTR2	19	0.89	1.24	0.0	3.0
S11HERTR2	14	1.21	1.31	0.0	3.0
S12HERTR2	28	1.46	1.40	0.0	3.0

R6HERTR3	19	0.95	1.18	0.0	3.0
R7HERTR3	34	0.76	0.99	0.0	3.0
R8HERTR3	26	0.62	1.02	0.0	3.0
R9HERTR3	22	0.68	0.95	0.0	3.0
R10HERTR3	55	1.16	1.27	0.0	3.0
R11HERTR3	32	0.97	1.28	0.0	3.0
R12HERTR3	58	1.12	1.27	0.0	3.0
S6HERTR3	12	0.83	1.34	0.0	3.0
S7HERTR3	23	0.52	1.04	0.0	3.0
S8HERTR3	1	0.00	.	0.0	0.0
S10HERTR3	3	1.33	1.53	0.0	3.0
S11HERTR3	1	0.00	.	0.0	0.0
S12HERTR3	10	1.50	1.35	0.0	3.0
R1HERTS1	5447	3.52	1.30	0.0	4.0
R2HERTS1	4996	3.50	1.33	0.0	4.0
R5HERTS1	1066	2.03	1.12	0.0	3.0
R6HERTS1	2111	1.23	1.33	0.0	3.0
R7HERTS1	2529	0.98	1.27	0.0	3.0
R8HERTS1	245	1.39	1.30	0.0	3.0
R9HERTS1	206	1.47	1.29	0.0	3.0
R10HERTS1	265	1.19	1.25	0.0	3.0
R11HERTS1	248	1.23	1.23	0.0	3.0
R12HERTS1	654	1.59	1.28	0.0	3.0
S1HERTS1	3634	3.28	1.54	0.0	4.0
S2HERTS1	5073	3.43	1.40	0.0	4.0
S3HERTS1	2710	1.29	0.96	0.0	2.0
S4HERTS1	3135	1.26	0.96	0.0	2.0
S5HERTS1	2812	1.40	1.28	0.0	3.0
S6HERTS1	2237	1.45	1.28	0.0	3.0
S7HERTS1	2704	1.22	1.25	0.0	3.0
S8HERTS1	2085	1.29	1.26	0.0	3.0
S9HERTS1	1720	1.21	1.23	0.0	3.0
S10HERTS1	2696	0.96	1.20	0.0	3.0
S11HERTS1	2363	0.91	1.18	0.0	3.0
S12HERTS1	1933	0.99	1.23	0.0	3.0
R1HERTS2	493	3.59	1.22	0.0	4.0
R2HERTS2	66	3.09	1.69	0.0	4.0
R6HERTS2	99	1.08	1.24	0.0	3.0
R7HERTS2	147	0.79	1.17	0.0	3.0
R8HERTS2	9	1.44	1.13	0.0	3.0
R9HERTS2	9	1.22	1.30	0.0	3.0
R10HERTS2	19	0.89	1.24	0.0	3.0
R11HERTS2	14	1.21	1.31	0.0	3.0
R12HERTS2	31	1.52	1.36	0.0	3.0
S1HERTS2	262	3.65	1.13	0.0	4.0
S2HERTS2	54	3.11	1.68	0.0	4.0
S3HERTS2	150	1.13	0.99	0.0	2.0
S6HERTS2	104	1.48	1.21	0.0	3.0
S7HERTS2	154	1.19	1.22	0.0	3.0
S8HERTS2	113	1.00	1.16	0.0	3.0
S9HERTS2	86	1.12	1.24	0.0	3.0
S10HERTS2	137	0.96	1.17	0.0	3.0
S11HERTS2	93	1.12	1.28	0.0	3.0



S12HERTS2	98	1.09	1.29	0.0	3.0
R6HERTS3	12	0.83	1.34	0.0	3.0
R7HERTS3	23	0.52	1.04	0.0	3.0
R8HERTS3	1	0.00	.	0.0	0.0
R10HERTS3	3	1.33	1.53	0.0	3.0
R11HERTS3	1	0.00	.	0.0	0.0
R12HERTS3	10	1.50	1.35	0.0	3.0
S6HERTS3	14	0.86	1.29	0.0	3.0
S7HERTS3	24	0.79	1.02	0.0	3.0
S8HERTS3	23	0.70	1.06	0.0	3.0
S9HERTS3	17	0.71	1.05	0.0	3.0
S10HERTS3	37	1.03	1.17	0.0	3.0
S11HERTS3	21	0.95	1.36	0.0	3.0
S12HERTS3	35	1.00	1.33	0.0	3.0
R1HERET	6996	3.51	1.32	0.0	4.0
R2HERET	6362	3.54	1.27	0.0	4.0
R3HERET	3681	1.29	0.96	0.0	2.0
R4HERET	4224	1.26	0.97	0.0	2.0
R5HERET	3626	1.91	1.14	0.0	3.0
R6HERET	3505	1.85	1.18	0.0	3.0
R7HERET	3974	1.69	1.20	0.0	3.0
R8HERET	2252	1.73	1.17	0.0	3.0
R9HERET	1860	1.66	1.18	0.0	3.0
R10HERET	2963	1.41	1.21	0.0	3.0
R11HERET	2581	1.38	1.22	0.0	3.0
R12HERET	2470	1.57	1.24	0.0	3.0
S1HERET	6043	3.58	1.22	0.0	4.0
S2HERET	5446	3.62	1.17	0.0	4.0
S3HERET	2744	1.30	0.95	0.0	2.0
S4HERET	3135	1.26	0.96	0.0	2.0
S5HERET	2747	2.11	1.02	0.0	3.0
S6HERET	2769	1.97	1.14	0.0	3.0
S7HERET	3048	1.82	1.17	0.0	3.0
S8HERET	1518	1.91	1.08	0.0	3.0
S9HERET	1254	1.82	1.10	0.0	3.0
S10HERET	1724	1.66	1.15	0.0	3.0
S11HERET	1489	1.62	1.16	0.0	3.0
S12HERET	1586	1.79	1.17	0.0	3.0

## Categorical Variable Codes

Value	R1HERTR1	R2HERTR1	R3HERTR1	R4HERTR1	R5HERTR1	R6HERTR1	R7HERTR1
.A=Age is 65 or older			426	2245	2321	2583	2498
.D=DK	917	741	212	282	317	255	284
.H=Source missing,question	96	93	475	697	110	197	188
.M=Oth missing	841	938	472	130	13	214	268
.N=No respondent employer-p	3952	3429	5731	13378	9593	9041	10003
.Q=Not asked this wv		8222	7027				
.R=RF	34	26	2	1		2	1
.S=Skip,question not asked				427	3488	2872	3186
0.Not covrd in ret	1120	993	1306	1572	1352	1003	1501
1.Covrd just to age 65					879	748	909
2.Covrd to age 65, DK over			2340	2652	272	204	232
3.Covrd to and over age 65					1234	1046	1059
4.Covers retirees (W1&2)	5692	5200					

Value	R8HERTR1	R9HERTR1	R10HERTR1	R11HERTR1	R12HERTR1
.A=Age is 65 or older	2394	2208	2022	1823	1673
.D=DK	277	174	287	162	132
.H=Source missing,question	149	160	534	292	325
.M=Oth missing	196	135	228	204	147
.N=No respondent employer-p	9740	9765	12067	12036	11446
.R=RF			1	1	
.S=Skip,question not asked	2858	2415	2858	2516	2104
0.Not covrd in ret	1119	953	2089	1871	1484
1.Covrd just to age 65	660	589	879	761	579
2.Covrd to age 65, DK over	207	157	202	139	151
3.Covrd to and over age 65	869	661	867	749	706

Value	S1HERTR1	S2HERTR1	S5HERTR1	S6HERTR1	S7HERTR1
.A=Age is 65 or older			1572	1340	1311
.D=DK	360	467	66	214	234
.H=Source missing,question	18	20	45	88	65
.M=Oth missing	1102	1124	1893	639	711
.N=No respondent employer-p	5713	2252	5196	4813	5461
.Q=Not asked this wv		4549			
.R=RF	25	27		2	4
.S=Skip,question not asked			2919	2457	2720
.U=Unmarried	2373	6003	6538	6313	6781
.V=Spouse NR		384	311	220	380
0.Not covrd in ret	342	602	112	984	1390
1.Covrd just to age 65			298	320	361
2.Covrd to age 65, DK over			77	94	87
3.Covrd to and over age 65			552	681	624
4.Covers retirees (W1&2)	2719	4214			

Value	S8HERTR1	S9HERTR1	S10HERTR1	S11HERTR1	S12HERTR1
.A=Age is 65 or older	1628	1472	1358	1213	1059
.D=DK	55	40	38	29	49
.H=Source missing,question	56	69	248	122	148
.M=Oth missing	2045	1601	2674	2280	1394
.N=No respondent employer-p	5374	5306	6569	6527	6065
.R=RF				1	1
.S=Skip,question not asked	2333	1955	2374	2067	1691
.U=Unmarried	6420	6212	7804	7486	7142
.V=Spouse NR	317	365	722	592	593
0.Not covrd in ret	89	66	102	92	175
1.Covrd just to age 65	53	46	60	66	142
2.Covrd to age 65, DK over	16	12	14	13	42
3.Covrd to and over age 65	83	73	71	66	246

Value	R1HERTR2	R2HERTR2	R3HERTR2	R6HERTR2	R7HERTR2
.A=Age is 65 or older			21	124	136
.D=DK	91	9	15	14	22
.H=Source missing,question	9	14	110	132	126
.M=Oth missing	189	54	34	8	16
.N=No respondent employer-p	6440	3381	4170	5845	6868
.P=Only one plan carried fr		6615			
.Q=Not asked this wv		8222	7027		
.R=RF	3	1	2		
.S=Skip,question not asked				231	295
.X=No more plans	5371	1278	6416	11674	12465
0.Not covrd in ret	70	17	83	41	74
1.Covrd just to age 65				42	54
2.Covrd to age 65, DK over			113	13	14
3.Covrd to and over age 65				41	59
4.Covers retirees (W1&2)	479	51			

Value	R8HERTR2	R9HERTR2	R10HERTR2	R11HERTR2	R12HERTR2
.A=Age is 65 or older	118	109	108	107	112
.D=DK	19	16	13	11	12
.H=Source missing,question	107	122	448	226	250
.M=Oth missing	9	10	18	13	9
.N=No respondent employer-p	7029	7300	9610	9695	8988
.S=Skip,question not asked	195	136	200	148	143
.X=No more plans	10850	9418	11435	10214	9078
0.Not covrd in ret	61	48	92	62	69
1.Covrd just to age 65	38	25	59	32	32
2.Covrd to age 65, DK over	11	6	5	6	9
3.Covrd to and over age 65	32	27	46	40	45

Value	S1HERTR2	S2HERTR2	S6HERTR2	S7HERTR2
.A=Age is 65 or older			64	76
.D=DK	39	15	10	20
.H=Source missing,question	1	8	60	52
.M=Oth missing	138	21	34	39
.N=No respondent employer-p	5713	2215	3037	3625
.P=Only one plan carried fr		5393		
.Q=Not asked this wv		4549		
.R=RF	3			
.S=Skip,question not asked			217	271
.U=Unmarried	2373	5971	6313	6781
.V=Spouse NR		384	220	380
.X=No more plans	4102	1030	8111	8740
0.Not covrd in ret	38	13	48	89
1.Covrd just to age 65			19	24
2.Covrd to age 65, DK over			8	4
3.Covrd to and over age 65			24	28
4.Covers retirees (W1&2)	245	43		

Value	S8HERTR2	S9HERTR2	S10HERTR2	S11HERTR2	S12HERTR2
.A=Age is 65 or older	80	77	80	70	77
.D=DK	7	4	1	2	5
.H=Source missing,question	50	54	218	93	115
.M=Oth missing	120	99	136	98	81
.N=No respondent employer-p	3756	3827	5110	5149	4663
.S=Skip,question not asked	177	116	162	128	116
.U=Unmarried	6420	6212	7804	7486	7142
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7533	6454	7782	6922	5927
0.Not covrd in ret	2	4	11	6	11
1.Covrd just to age 65	3	1	3	3	5
2.Covrd to age 65, DK over	2	2	1	1	
3.Covrd to and over age 65	2	2	4	4	12

Value	R6HERTR3	R7HERTR3
.A=Age is 65 or older	10	13
.D=DK		3
.H=Source missing,question	129	123
.M=Oth missing		4
.N=No respondent employer-p	5644	6631
.S=Skip,question not asked	12	14
.X=No more plans	12351	13307
0.Not covrd in ret	10	17
1.Covrd just to age 65	3	12
2.Covrd to age 65, DK over	3	1
3.Covrd to and over age 65	3	4

Value	R8HERTR3	R9HERTR3	R10HERTR3	R11HERTR3	R12HERTR3
.A=Age is 65 or older	8	12	9	15	20
.D=DK	5	4	8	2	4
.H=Source missing,question	98	123	446	223	243
.M=Oth missing	1	1	7	5	1
.N=No respondent employer-p	6873	7139	9449	9544	8817
.S=Skip,question not asked	10	4	19	17	18
.X=No more plans	11448	9912	12041	10716	9586
0.Not covrd in ret	17	12	24	18	27
1.Covrd just to age 65	5	7	14	5	13
2.Covrd to age 65, DK over	1	1	1	1	2
3.Covrd to and over age 65	3	2	16	8	16

Value	S6HERTR3	S7HERTR3
.A=Age is 65 or older	5	4
.D=DK	1	2
.H=Source missing,question	59	50
.M=Oth missing	3	9
.N=No respondent employer-p	2908	3486
.S=Skip,question not asked	11	14
.U=Unmarried	6313	6781
.V=Spouse NR	220	380
.X=No more plans	8633	9380
0.Not covrd in ret	8	17
1.Covrd just to age 65	1	3
3.Covrd to and over age 65	3	3

Value	S8HERTR3	S9HERTR3	S10HERTR3	S11HERTR3	S12HERTR3
.A=Age is 65 or older	6	10	11	9	17
.D=DK	1				2
.H=Source missing,question	43	54	218	91	110
.M=Oth missing	25	20	39	23	23
.N=No respondent employer-p	3653	3724	5017	5077	4562
.S=Skip,question not asked	10	2	17	13	16
.U=Unmarried	6420	6212	7804	7486	7142
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7993	6830	8203	7262	6272
0.Not covrd in ret	1		1	1	3
1.Covrd just to age 65			1		3
3.Covrd to and over age 65			1		4

Value	R1HERTS1	R2HERTS1	R5HERTS1	R6HERTS1	R7HERTS1
.A=Age is 65 or older			1606	1366	1355
.D=DK	554	489	68	220	244
.H=Source missing,question	17	23	53	93	74
.M=Oth missing	1402	1194	1953	667	752
.N=No respondent employer-p	2822	2358	5314	4906	5605
.Q=Not asked this wv		8222			
.R=RF	37	28		2	4
.S=Skip,question not asked			2981	2494	2789
.U=Unmarried	2373	2332	6538	6306	6777
0.Not covrd in ret	658	629	115	996	1420
1.Covrd just to age 65			305	328	374
2.Covrd to age 65, DK over			80	99	94
3.Covrd to and over age 65			566	688	641
4.Covers retirees (W1&2)	4789	4367			

Value	R8HERTS1	R9HERTS1	R10HERTS1	R11HERTS1	R12HERTS1
.A=Age is 65 or older	1674	1512	1410	1266	1101
.D=DK	55	42	38	29	51
.H=Source missing,question	62	71	297	141	163
.M=Oth missing	2109	1668	2869	2407	1500
.N=No respondent employer-p	5534	5507	6872	6826	6370
.R=RF				1	2
.S=Skip,question not asked	2373	2006	2485	2162	1780
.U=Unmarried	6417	6205	7798	7474	7126
0.Not covrd in ret	91	68	112	96	189
1.Covrd just to age 65	53	49	64	69	156
2.Covrd to age 65, DK over	16	13	16	13	45
3.Covrd to and over age 65	85	76	73	70	264

Value	S1HERTS1	S2HERTS1	S3HERTS1	S4HERTS1	S5HERTS1	S6HERTS1	S7HERTS1
.A=Age is 65 or older			375	1503	1528	1675	1607
.D=DK	474	555	149	208	232	193	201
.H=Source missing,question	18	21	376	530	45	88	65
.M=Oth missing	420	817	362	98	9	173	213
.N=No respondent employer-p	5713	2252	4332	8174	5196	4819	5465
.Q=Not asked this wv		4549	3704				
.R=RF	20	21	2	1		2	
.S=Skip,question not asked				329	2908	2452	2717
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	323	537	311	220	380
0.Not covrd in ret	654	729	959	1153	994	746	1108
1.Covrd just to age 65					661	547	670
2.Covrd to age 65, DK over			1751	1982	195	139	145
3.Covrd to and over age 65					962	805	781
4.Covers retirees (W1&2)	2980	4344					

Value	S8HERTS1	S9HERTS1	S10HERTS1	S11HERTS1	S12HERTS1
.A=Age is 65 or older	1502	1365	1264	1137	984
.D=DK	221	123	189	114	83
.H=Source missing,question	56	69	248	122	148
.M=Oth missing	161	105	172	153	112
.N=No respondent employer-p	5376	5309	6573	6534	6075
.S=Skip,question not asked	2334	1955	2371	2065	1692
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not covrd in ret	811	692	1402	1267	1012
1.Covrd just to age 65	497	443	579	522	380
2.Covrd to age 65, DK over	145	121	128	84	92
3.Covrd to and over age 65	632	464	587	490	449

Value	R1HERTS2	R2HERTS2	R6HERTS2	R7HERTS2
.A=Age is 65 or older			64	77
.D=DK	65	17	10	22
.H=Source missing,question	1	10	65	60
.M=Oth missing	201	44	35	40
.N=No respondent employer-p	5310	2315	3108	3732
.P=Only one plan carried fr		5576		
.Q=Not asked this wv		8222		
.R=RF	4			
.S=Skip,question not asked			220	277
.U=Unmarried	2373	2285	6306	6777
.X=No more plans	4205	1107	8258	8997
0.Not covrd in ret	51	15	48	91
1.Covrd just to age 65			19	24
2.Covrd to age 65, DK over			8	4
3.Covrd to and over age 65			24	28
4.Covers retirees (W1&2)	442	51		

Value	R8HERTS2	R9HERTS2	R10HERTS2	R11HERTS2	R12HERTS2
.A=Age is 65 or older	83	78	83	72	83
.D=DK	7	4	1	2	5
.H=Source missing,question	54	56	264	111	128
.M=Oth missing	121	101	141	106	84
.N=No respondent employer-p	3871	3979	5344	5392	4895
.S=Skip,question not asked	178	121	175	134	124
.U=Unmarried	6417	6205	7799	7474	7126
.X=No more plans	7729	6664	8208	7249	6271
0.Not covrd in ret	2	4	11	6	11
1.Covrd just to age 65	3	1	3	3	6
2.Covrd to age 65, DK over	2	2	1	1	1
3.Covrd to and over age 65	2	2	4	4	13

Value	S1HERTS2	S2HERTS2	S3HERTS2	S6HERTS2	S7HERTS2
.A=Age is 65 or older			19	86	95
.D=DK	35	7	10	11	18
.H=Source missing,question	1	8	58	60	52
.M=Oth missing	164	30	25	6	13
.N=No respondent employer-p	5713	2215	2887	3043	3629
.P=Only one plan carried fr		5394			
.Q=Not asked this wv		4549	3704		
.R=RF	2	1	1		
.S=Skip,question not asked				217	271
.U=Unmarried	2373	5970	5658	6306	6777
.V=Spouse NR		384	323	220	380
.X=No more plans	4102	1030	5156	8112	8740
0.Not covrd in ret	23	12	65	28	61
1.Covrd just to age 65				32	44
2.Covrd to age 65, DK over			85	10	8
3.Covrd to and over age 65				34	41
4.Covers retirees (W1&2)	239	42			

Value	S8HERTS2	S9HERTS2	S10HERTS2	S11HERTS2	S12HERTS2
.A=Age is 65 or older	79	80	72	73	75
.D=DK	18	16	10	8	11
.H=Source missing,question	50	54	218	93	115
.M=Oth missing	7	8	17	11	7
.N=No respondent employer-p	3758	3830	5113	5157	4672
.S=Skip,question not asked	176	115	162	127	116
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7534	6457	7784	6926	5933
0.Not covrd in ret	53	39	66	44	50
1.Covrd just to age 65	29	20	39	20	16
2.Covrd to age 65, DK over	9	5	3	3	5
3.Covrd to and over age 65	22	22	29	26	27

Value	R6HERTS3	R7HERTS3
.A=Age is 65 or older	5	4
.D=DK	1	2
.H=Source missing,question	64	58
.M=Oth missing	3	9
.N=No respondent employer-p	2977	3586
.S=Skip,question not asked	11	14
.U=Unmarried	6306	6777
.X=No more plans	8786	9656
0.Not covrd in ret	8	17
1.Covrd just to age 65	1	3
3.Covrd to and over age 65	3	3

Value	R8HERTS3	R9HERTS3	R10HERTS3	R11HERTS3	R12HERTS3
.A=Age is 65 or older	6	11	11	10	17
.D=DK	1				2
.H=Source missing,question	47	56	264	109	123
.M=Oth missing	25	20	40	25	23
.N=No respondent employer-p	3765	3873	5247	5315	4788
.S=Skip,question not asked	10	2	19	15	17
.U=Unmarried	6417	6205	7799	7474	7126
.X=No more plans	8197	7050	8651	7605	6641
0.Not covrd in ret	1		1	1	3
1.Covrd just to age 65			1		3
3.Covrd to and over age 65			1		4

Value	S6HERTS3	S7HERTS3
.A=Age is 65 or older	7	9
.D=DK		2
.H=Source missing,question	59	50
.M=Oth missing		3
.N=No respondent employer-p	2914	3490
.S=Skip,question not asked	11	14
.U=Unmarried	6306	6777
.V=Spouse NR	220	380
.X=No more plans	8634	9380
0.Not covrd in ret	9	12
1.Covrd just to age 65	1	8
2.Covrd to age 65, DK over	1	1
3.Covrd to and over age 65	3	3

Value	S8HERTS3	S9HERTS3	S10HERTS3	S11HERTS3	S12HERTS3
.A=Age is 65 or older	4	8	4	7	13
.D=DK	5	4	7	1	4
.H=Source missing,question	43	54	218	91	110
.M=Oth missing	1	1	5	4	
.N=No respondent employer-p	3655	3727	5020	5084	4571
.S=Skip,question not asked	10	2	17	13	16
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=No more plans	7994	6833	8205	7267	6278
0.Not covrd in ret	14	10	16	13	20
1.Covrd just to age 65	5	4	12	2	5
2.Covrd to age 65, DK over	1	1	1		
3.Covrd to and over age 65	3	2	8	6	10

Value	R1HERET	R2HERET	R3HERET	R4HERET	R5HERET	R6HERET	R7HERET
.A=Age is 65 or older			436	2245	1783	1781	1706
.D=DK	782	584	215	282	115	152	163
.H=Source missing,question	93	78	483	697	93	223	212
.M=Oth missing	1246	1228	476	130	3241	2710	2891
.N=No respondent employer-p	3504	2916	5671	13378	8709	8079	8887
.P=Only one plan carried fr		87					
.Q=Not asked this wv		8222	7027				
.R=RF	31	24	2	1			2
.S=Skip,question not asked				427	1872	1616	2119
.V=Spouse NR		141			140	99	175
0.Not covrd in ret	865	730	1299	1572	473	590	826
1.Covrd just to age 65					1103	1001	1201
2.Covrd to age 65, DK over			2382	2652	335	273	313
3.Covrd to and over age 65					1715	1641	1634
4.Covers retirees (W1&2)	6131	5632					

Value	R8HERET	R9HERET	R10HERET	R11HERET	R12HERET
.A=Age is 65 or older	1927	1815	1733	1572	1517
.D=DK	119	94	134	86	92
.H=Source missing,question	161	177	529	340	373
.M=Oth missing	3819	3191	4226	3526	2568
.N=No respondent employer-p	8647	8690	10587	10620	10134
.R=RF			1	2	
.S=Skip,question not asked	1354	1167	1474	1472	1239
.V=Spouse NR	190	223	387	355	354
0.Not covrd in ret	409	369	879	801	657
1.Covrd just to age 65	706	613	932	815	683
2.Covrd to age 65, DK over	214	161	219	154	195
3.Covrd to and over age 65	923	717	933	811	935

Value	S1HERET	S2HERET	S3HERET	S4HERET	S5HERET	S6HERET	S7HERET
.A=Age is 65 or older			385	1503	1034	900	861
.D=DK	581	427	151	208	40	97	91
.H=Source missing,question	14	17	383	530	36	117	94
.M=Oth missing	1239	1175	366	98	3281	2682	2859
.N=No respondent employer-p	2374	1846	4275	8174	4430	3964	4509
.P=Only one plan carried fr		75					
.Q=Not asked this wv		4549	3704				
.R=RF	28	21	2	1			1
.S=Skip,question not asked				329	1352	1231	1721
.U=Unmarried	2373	5958	5658	6869	6538	6306	6777
.V=Spouse NR		128	323	537	121	99	168
0.Not covrd in ret	632	518	957	1153	137	346	476
1.Covrd just to age 65					892	805	975
2.Covrd to age 65, DK over			1787	1982	261	213	229
3.Covrd to and over age 65					1457	1405	1368
4.Covers retirees (W1&2)	5411	4928					

Value	S8HERET	S9HERET	S10HERET	S11HERET	S12HERET
.A=Age is 65 or older	1075	1012	1025	931	871
.D=DK	66	47	53	48	49
.H=Source missing,question	72	87	289	188	208
.M=Oth missing	3841	3221	4335	3595	2620
.N=No respondent employer-p	4450	4440	5407	5416	5067
.R=RF				1	
.S=Skip,question not asked	872	755	1096	1117	917
.U=Unmarried	6417	6205	7798	7474	7126
.V=Spouse NR	158	196	307	295	303
0.Not covrd in ret	141	140	299	272	262
1.Covrd just to age 65	540	468	631	573	497
2.Covrd to age 65, DK over	154	125	146	95	135
3.Covrd to and over age 65	683	521	648	549	692



## How Constructed

RwHERTRx indicates whether the Respondent's employer-provided health insurance covers the Respondent in retirement. RwhERTSx indicates whether the Respondent's employer-provided health insurance covers the spouse in retirement. The questions about coverage in retirement are only asked if the Respondent is covered by the Respondent's current or previous employer.

In Waves 1 and 2H, this is taken from the question that asks whether the plan covers retirees. In Wave 3H and from Wave 4 forward, it is taken from a question that asks about coverage up to age 65. And from Wave 5 forward, an additional question asking about coverage after 65 is used.

SwHERTRx and SwHERTSx indicate whether health insurance from the employer of the Respondent's spouse or partner covers the Respondent or spouse in retirement, respectively.

RwHERET summarizes whether the Respondent is covered in retirement under any plan, either her/his own or the spouse's. SwHERET summarizes whether the spouse is covered in retirement under any plan.

The number of insurance plans about which information is gathered varies across waves. In Wave 1, a question asks if the plan covers retirees, for each plan.

In Wave 2H, if the Respondent indicates that s/he is still covered by her/his own employer-provided health plan reported in Wave 1, the Wave 1 information is assumed to be correct for Wave 2H as well, i.e., R2HERTR1 is set to R1HERTRx, where 'x' is the first plan that agrees with the source of coverage presented in Wave 2H. If Wave 2H employer-provided health insurance is not a continuation of the preloaded Wave 1 coverage, the Wave 2H question about whether the plan covers retirees is used to set R2HERTRx. We cannot tell from these questions if the Respondent is covered up to 65 or after 65 so we created a separate category for Wave 1 and 2, "Covers Retirees."

In Wave 3H and from Wave 4 forward, this question is no longer asked. In Wave 3H and from Wave 4 forward, another question asks if the plan would cover the Respondent up to age 65. If coverage can continue to age 65 in Waves 3H or 4, then RwHERTRx is set to "Covered now and to age 65, DK over age 65."

From Wave 5 forward, an additional question asks if the plan would cover the Respondent after age 65, allowing for additional categories for RwHERTRx: "Only covered to age 65," "Covered up to and after age 65," or "Covered up to age 65, dk after 65." It is not possible for the Respondent to report being covered after 65 if s/he is not covered up to 65.

If the Respondent is already 65 then RwHERTRx is set to .A - already 65, and if the plan(s) are not from the Respondent's current or previous employer, RwHERTRx is set to .N - No employer-provided insurance. In Wave 5, if the Respondent is self-employed s/he is not asked any retirement questions and so they are set to .S - question not asked.

Similar questions ask if the spouse is covered in retirement by the Respondent's plan and RwhERTSx is assigned from these questions the same way as described above. The spouse question is in the Waves 3H and 4 questionnaire but no data are collected. In Waves 2A and 3A, retirement questions are not asked. Since no information is available in Waves 3 and 4, we do not include RwhERTSx variables in these waves. In Wave 2A, R2HERTSx is set to special missing values .Q - no information is available this wave.

SwHERTRx for Wave 1 is taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1HERTRx is the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1HERTRx is the Financial Respondent's information.

From Wave 2 on, this information is taken from the spouse's self-reported RwHERTRx and RwhERTSx variable, if

available, and assigned to SwHERTSx and SwHERTRx, respectively. If the Respondent is not married, SwHERTRx and SwHERTSx are set to .U=unmarried. If the Respondent's spouse did not respond then SwHERTRx and SwHERTSx are set to .V=Spouse is non-response.

RwHERET is the maximum retirement coverage reported for the Respondent, derived by examining all RwHERTRx and SwHERTRx variables. If any of these variables are missing values besides .N for no coverage, .X for no more plans, or .U for unmarried, then RwHERET is set to missing. If only one type of missing value is observed then that is the missing value assigned to RwHERET. If more than one type of missing value is observed, then RwHERET is set to .M.

SwHERET is the maximum retirement coverage reported for the spouse, derived by examining all RwHERTSx and SwHERTSx variables. SwHERET is set to missing values in the same way as RwHERET is. Note that in Waves 3 and 4, SwHERET is based only on the spouse's responses with regard to the insurance coverage s/he provides, because there are not RwHERTSx variables.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only. Please see the description of cross-wave differences for "Source of insurance and who is covered" for details on how those questions varied over time.

In Wave 1, for each plan, a question asks: "Is this health plan available to people who retire?" and "Can the spouses of retired employees be covered under this plan?"

In Wave 2H, if preloaded information indicates the Respondent was covered by any employer-provided health insurance in Wave 1, the Respondent is asked if this coverage continues. If so, then no question about whether the plan covers retirees is asked. If not, or if not covered in Wave 1, current employer-provided health insurance plans are asked about (up to two). For each plan, the questions about retiree coverage are asked with the same wording as in Wave 1.

In Wave 3H, and Wave 4 forward, the question about whether a plan covers retirees is no longer asked. Other questions ask if the plan would cover the Respondent up to age 65 if s/he left the job before age 65 (if from current employer), or if the plan could be continued to age 65 (if from previous employer). The question wording is: "[If you left your current employer now could you]/[Can you] continue this [health] insurance coverage for yourself up to the age of 65?"

This question is skipped if the Respondent is already 65, or if the employer-provided health plan is not from either the Respondent's current or previous employer (e.g., it is NOT asked if the plan source is a union, spouse's employer, or through the Respondent's self-employment). From Wave 6 forward this question is asked for up to three plans.

From Wave 5 forward, an additional question asks if the plan would cover the Respondent after age 65. It is only asked if the Respondent reported being covered up to age 65. The question wording is: "[If you left your current employer now,] Does your employer offer some type of health insurance coverage for you after the age of 65?"

Similar questions ask if the spouse is covered in retirement by the Respondent's plan: "[If you left your current employer now could you]/[Can you] continue your current health insurance coverage for your spouse until he/she is age 65?" The question is in the Waves 3H and 4 questionnaire, but no data was collected.

From Wave 5 forward, if the spouse can be covered up to age 65, another question asks: "[If you left your current employer now,] Does your employer offer some type of health insurance coverage for your spouse after the age of 65?"

In Waves 2A and 3A, no question about retiree coverage or coverage before age 65 is asked.

**HRS Variables Used**

HRS 1992:  
   V6614                   R3:R1EMPLR HLTH INS PLAN  
   V6615                   R3A:R1EMP:#PLANS HAVE  
   V6616                   R4:R1EMP:#1:HOW OBTAINED  
   V6618                   R7:R1#1:AVAIL FOR RTIREE  
   V6622                   R11:R1#1:RET:CAN SP COV  
   V6624                   R4:R1EMP:#2:HOW OBTAINED  
   V6626                   R7:R1#2:AVAIL FOR RTIREE  
   V6630                   R11:R1#2:RET:CAN SP COV  
   V6808                   R22:R2COV BY R'S EMP INS  
   V6809                   R23:CKPT:ONLY 1 PLAN/OTH  
   V6810                   R24A:PLAN1 COV BOTH R SP  
   V6811                   R24B:PLAN2 COVERS BOTH  
   V6813                   R25:R2HAS OTHR EMP INS  
   V6814                   R26:R2EMPLR HLTH INS PLN  
   V6815                   R26A:R2EMP:#PLANS HAVE  
   V6816                   R27:R2EMP:#1:HOW OBTAINED  
   V6818                   R30:R2#1:AVAIL FR RTIREE  
   V6822                   R34:R2#1:RET:CAN SP COV  
   V6824                   R27:R2EMP:#2:HOW OBTAINED  
   V6826                   R30:R2#2:AVAIL FR RTIREE  
   V6830                   R34:R2#2:RET:CAN SP COV  
  
 HRS 1994:  
   W6705                   R2-1.COVERED BY SAME POL  
   W6707                   R2b-1.STILL COVERED BY W  
   W6708                   R2-2a.STILL COVERED BY S  
   W6709                   R2-2b.STILL COVERED BY S  
   W6724                   R4.CURRENT HEALTH INS FR  
   W6726                   P1. R5.HOW OBTAINED  
   W6734                   P1. R8.AVAILABLE FOR RET  
   W6740                   P2. R5.HOW OBTAINED  
   W6748                   P2. R8.AVAILABLE FOR RET  
  
 HRS 1996:  
   E5158                   R12X.SELF-EMP INSURANCE  
   E5160                   R13.ANY EMPLR INSURANCE FOR HOSP/DR BILL  
   E5163\_1                  R15.HOW OBTAIN INSURANCE  
   E5163\_2                  R15.HOW OBTAIN INSURANCE  
   E5191\_1                  R34.COVERAGE CONTINUE TO 65  
   E5191\_2                  R34.COVERAGE CONTINUE TO 65  
   E5194\_1                  R35.COVERAGE TO 65 IF LEFT NOW  
   E5194\_2                  R35.COVERAGE TO 65 IF LEFT NOW  
  
 HRS 1998:  
   F5891                   R12X.SELF-EMP INSURANCE  
   F5893                   R13.ANY INSURANCE FOR HOSP/DR BILLS  
   F5896                   R15.HOW OBTAIN INSURANCE  
   F5924                   R34.COVERAGE CONTINUE TO 65  
   F5927                   R35.COVERAGE TO 65 IF LEFT NOW  
  
 HRS 2000:  
   G6264                   R12AA.SELF-EMP INSURANCE  
   G6266                   R13.ANY INSURANCE THRU AN EMPLOYER  
   G6269                   R15.HOW OBTAIN INSURANCE  
   G6297                   R34.COVERAGE CONTINUE TO 65  
   G6302                   R35.COVERAGE TO 65 IF LEFT NOW  
  
 HRS 2002:  
   HN033\_1                  OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1  
   HN033\_2                  OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2  
   HN033\_3                  OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3  
   HN034\_1                  OBTAIN INS THRU FORMER EMPLOYER- 1

HN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
HN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
HN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
HN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
HN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
HN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
HN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
HN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
HN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
HN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
HN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
HN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
HN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
HN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2004:	
JN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
JN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
JN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
JN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
JN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
JN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
JN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
JN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
JN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
JN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
JN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
JN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
JN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
JN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
JN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
JN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
JN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
JN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2006:	
KN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
KN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
KN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
KN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
KN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
KN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
KN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
KN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
KN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
KN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
KN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
KN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
KN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
KN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
KN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
KN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
KN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
KN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2008:	
LN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
LN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
LN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
LN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
LN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
LN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3

LN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
LN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
LN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
LN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
LN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
LN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
LN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
LN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
LN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
LN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
LN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
LN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2010:	
MN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
MN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
MN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
MN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
MN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
MN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
MN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
MN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
MN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
MN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
MN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
MN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
MN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
MN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
MN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
MN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
MN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
MN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2012:	
NN033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
NN033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
NN033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
NN034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
NN034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
NN034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
NN059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
NN059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2
NN059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
NN060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
NN060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
NN060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
NN062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
NN062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
NN062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
NN063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
NN063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
NN063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3
HRS 2014:	
ON033_1	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-1
ON033_2	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-2
ON033_3	OBTAIN HI THRU CURRNT EMP/OWN BUSINESS-3
ON034_1	OBTAIN INS THRU FORMER EMPLOYER- 1
ON034_2	OBTAIN INS THRU FORMER EMPLOYER- 2
ON034_3	OBTAIN INS THRU FORMER EMPLOYER- 3
ON059_1	EMPLOYER RETIREE COVERAGE UP TO 65- 1
ON059_2	EMPLOYER RETIREE COVERAGE UP TO 65- 2

ON059_3	EMPLOYER RETIREE COVERAGE UP TO 65- 3
ON060_1	EMPLOYER RETIREE HI COVERAGE AFTER 65- 1
ON060_2	EMPLOYER RETIREE HI COVERAGE AFTER 65- 2
ON060_3	EMPLOYER RETIREE HI COVERAGE AFTER 65- 3
ON062_1	EMP RETIREE HI COV FOR SP UP TO 65- 1
ON062_2	EMP RETIREE HI COV FOR SP UP TO 65- 2
ON062_3	EMP RETIREE HI COV FOR SP UP TO 65- 3
ON063_1	EMP RETIREE HI COV FOR SP AFTER 65- 1
ON063_2	EMP RETIREE HI COV FOR SP AFTER 65- 2
ON063_3	EMP RETIREE HI COV FOR SP AFTER 65- 3

## Tracker:

AFINR	1992 WHETHER FINANCIAL RESPONDENT
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<b>Covered by other health insurance</b>
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Wave	Variable	Label	Type
1	R1HIOTHP	R1HIOTHP:W1 R has Other Ins	Categ
2	R2HIOTHP	R2HIOTHP:W2 R has Other Ins	Categ
3	R3HIOTHP	R3HIOTHP:W3 R has Other Ins	Categ
4	R4HIOTHP	R4HIOTHP:W4 R has Other Ins	Categ
5	R5HIOTHP	R5HIOTHP:W5 R has Other Ins	Categ
6	R6HIOTHP	R6HIOTHP:W6 R has Other Ins	Categ
7	R7HIOTHP	R7HIOTHP:W7 R has Other Ins	Categ
8	R8HIOTHP	R8HIOTHP:W8 R has Other Ins	Categ
9	R9HIOTHP	R9HIOTHP:W9 R has Other Ins	Categ
10	R10HIOTHP	R10HIOTHP:W10 R has Other Ins	Categ
11	R11HIOTHP	R11HIOTHP:W11 R has Other Ins	Categ
12	R12HIOTHP	R12HIOTHP:W12 R has Other Ins	Categ
1	S1HIOTHP	S1HIOTHP:W1 S has Other Ins	Categ
2	S2HIOTHP	S2HIOTHP:W2 S has Other Ins	Categ
3	S3HIOTHP	S3HIOTHP:W3 S has Other Ins	Categ
4	S4HIOTHP	S4HIOTHP:W4 S has Other Ins	Categ
5	S5HIOTHP	S5HIOTHP:W5 S has Other Ins	Categ
6	S6HIOTHP	S6HIOTHP:W6 S has Other Ins	Categ
7	S7HIOTHP	S7HIOTHP:W7 S has Other Ins	Categ
8	S8HIOTHP	S8HIOTHP:W8 S has Other Ins	Categ
9	S9HIOTHP	S9HIOTHP:W9 S has Other Ins	Categ
10	S10HIOTHP	S10HIOTHP:W10 S has Other Ins	Categ
11	S11HIOTHP	S11HIOTHP:W11 S has Other Ins	Categ
12	S12HIOTHP	S12HIOTHP:W12 S has Other Ins	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIOTHP	12244	0.13	0.34	0.0	1.0
R2HIOTHP	19479	0.40	0.49	0.0	1.0
R3HIOTHP	16416	0.17	0.38	0.0	1.0
R4HIOTHP	21238	0.21	0.40	0.0	1.0
R5HIOTHP	19431	0.21	0.41	0.0	1.0
R6HIOTHP	17962	0.20	0.40	0.0	1.0
R7HIOTHP	19923	0.18	0.38	0.0	1.0
R8HIOTHP	18315	0.16	0.37	0.0	1.0
R9HIOTHP	17052	0.16	0.37	0.0	1.0
R10HIOTHP	21489	0.13	0.33	0.0	1.0
R11HIOTHP	20252	0.13	0.33	0.0	1.0
R12HIOTHP	18412	0.15	0.36	0.0	1.0
S1HIOTHP	9864	0.12	0.33	0.0	1.0
S2HIOTHP	13018	0.38	0.48	0.0	1.0
S3HIOTHP	11066	0.17	0.37	0.0	1.0
S4HIOTHP	13942	0.20	0.40	0.0	1.0
S5HIOTHP	12692	0.21	0.40	0.0	1.0
S6HIOTHP	11547	0.17	0.38	0.0	1.0
S7HIOTHP	12895	0.16	0.37	0.0	1.0
S8HIOTHP	11672	0.15	0.36	0.0	1.0
S9HIOTHP	10573	0.16	0.36	0.0	1.0
S10HIOTHP	13257	0.12	0.33	0.0	1.0
S11HIOTHP	12358	0.12	0.33	0.0	1.0
S12HIOTHP	10875	0.14	0.35	0.0	1.0

## Categorical Variable Codes

Value	R1HIOTHP	R2HIOTHP	R3HIOTHP	R4HIOTHP	R5HIOTHP	R6HIOTHP	R7HIOTHP
.C=Cov,DK by whose emplyr			1172				
.D=DK	25	63	291	59	80	134	152
.M=Oth missing	383	78	79	69	50	19	21
.R=RF		22	33	18	18	50	33
0.No	10643	11668	13587	16855	15359	14404	16350
1.Yes	1601	7811	2829	4383	4072	3558	3573

Value	R8HIOTHP	R9HIOTHP	R10HIOTHP	R11HIOTHP	R12HIOTHP
.D=DK	122	129	236	210	233
.M=Oth missing	15	17	253	50	48
.R=RF	17	19	56	42	54
0.No	15323	14310	18735	17665	15685
1.Yes	2992	2742	2754	2587	2727

Value	S1HIOTHP	S2HIOTHP	S3HIOTHP	S4HIOTHP	S5HIOTHP	S6HIOTHP	S7HIOTHP
.C=Cov,DK by whose emplyr			674				
.D=DK	16	33	149	30	32	51	53
.M=Oth missing	399	23	23	16	11	8	3
.R=RF		14	14	11	10	33	21
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	407	516	296	220	380
0.No	8637	8120	9222	11180	10076	9527	10791
1.Yes	1227	4898	1844	2762	2616	2020	2104

Value	S8HIOTHP	S9HIOTHP	S10HIOTHP	S11HIOTHP	S12HIOTHP
.D=DK	51	57	87	97	111
.M=Oth missing	3	4	143	12	15
.R=RF	9	12	26	21	26
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	9869	8921	11625	10856	9301
1.Yes	1803	1652	1632	1502	1574

## How Constructed

RwHIOTHP indicates whether the Respondent is covered by any health insurance other than government, employer-provided, or long-term care insurance. SwHIOTHP provides the information for the Respondent's spouse or partner.

The question wording and the sample that is asked these questions vary across waves. The relevant questions follow those that inquire about government and employer-provided insurance, and in some waves, are not asked if these types of insurance apply. Because of these differences, the analyst may want to consider this measure in conjunction with other types of insurance coverage.

Generally, if the Respondent indicates that s/he is currently covered by Basic health, Medigap or any other health insurance programs besides long-term care insurance, and the coverage is not clearly provided by the government or an employer or union, then we set RwHIOTHP to yes (=1). If the Respondent responds no to questions about these types of insurance coverage then RwHIOTHP is set to no (=0). Otherwise, RwHIOTHP is set to a missing value based on missing values in the HRS variables. Specific codes used to set RwHIOTHP in each wave are listed under "Cross-Wave Differences."

In Wave 3H, and Wave 4, there are two, and in Wave 5 there are three relevant questions. One of them is skipped if



the Respondent has Medicare and employer provided Medigap. The second is skipped if the Respondent is covered by any government or employer-provided insurance. In Wave 5 the third question is skipped if the Respondent is covered by Medicare, through self-employment, or if the Respondent answered the second question. If all these questions are skipped, we set RWHIOTHP to "0." In other waves, the questions are asked of everyone.

In Wave 2A, 3A and from Wave 6 forward, the other health insurance questions are asked in combination with, or as part of a series of questions including employer-provided insurance questions.

Note that coverage by RWHIOTHP decreases somewhat from Wave 6 forward. This may be because the question structure is considerably different from that in previous waves.

SwHIOTHP for Wave 1 is taken from the Financial Respondent's information appropriately. That is, if the Respondent is the Financial Respondent, then S1HIOTHP is the Financial Respondent's spouse's information. But if the Respondent is the spouse of the Financial Respondent, then S1HIOTHP is the Financial Respondent's information.

From Wave 2 on, this information is taken from the spouse's self-reported RWHIOTHP variable, if available. In Waves 3H, 4, and 5, if the Respondent reports that the spouse is covered by her/his other insurance, this information is applied if the Respondent is married or partnered and the spouse's self-report is missing. If the Respondent is not married, SwHIOTHP is set to .U=unmarried. If the Respondent's spouse did not respond then SwHIOTHP is set to .V=Spouse is non-response.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, the Financial Respondent's spouse's insurance coverage. From Wave 2 on, health insurance questions are asked of individual Respondents about their own coverage only.

In Wave 1 an initial question asks "Do you have any type of health insurance coverage, Medigap or other supplemental coverage, or long-term care insurance that is purchased directly from an insurance company or through a membership organization such as AARP (the American Association of Retired Persons)?" If the answer is "yes," then a second question, to which multiple answers may be given asks: "What kind of coverage do you have?" There are five categories of insurance coded: 1) BASIC HEALTH ("Hospitalization"), 2) MEDIGAP, 3) OTHER SUPPLEMENTAL HEALTH (AARP-NFS), 4) LONG-TERM CARE (incl. nursing home care) and 5) OTHER (SPECIFY). Each category is coded as a separate yes/no variable. If the Respondent reports any kind of coverage besides long-term care, then RWHIOTHP is set to "yes."

In Wave 2A, the questions are similar to those in Wave 1. A first question asks: "Do you have any (other) type of health insurance coverage?" If the answer is "yes," then a second question asks: "What kind of coverage do you have?" There are 5 different answers: 1) BASIC HEALTH ("Hospitalization"), 2) MEDIGAP, 3) OTHER SUPPLEMENTAL HEALTH, 4) LONG-TERM CARE and 5) OTHER (SPECIFY). Up to four responses are reported. If the Respondent reports any kind of coverage except long-term care, then RWHIOTHP is set to "yes."

In Wave 2H, separate questions ask about basic health and supplementary health insurance that are privately purchased:

- a) "Do you have any basic health insurance coverage, purchased directly from an insurance company or through a membership organization such as AARP (American Association of Retired Persons)?"
- b) "Do you have any type of supplementary health insurance coverage, such as Medigap or long-term care insurance that is purchased directly from an insurance company or through a membership organization such as AARP (American Association of Retired Persons)?"

If the answer to the second question is "yes," then the Respondent is asked: "What kind of coverage do you have?" There are many categories coded, including Medigap, other supplemental health, long-term care, heart/cardiac policy, cancer (including a combination of cancer and intensive care), dental insurance, Major Medical, "intensive care" or "catastrophic illness," "accident," hospitalization, disability, a policy that pays so much per day/per length of time, and other. Up to four responses are reported. If the Respondent reports any kind of coverage except long-term care, then RWHIOTHP is set to "yes."

In Wave 3A, questions ask if the Respondent has any health insurance other than government or long-term care and then ask for the source of the other insurance. The first question asks: "Not counting long-term care insurance or Medicare, (or Medicaid/or any other insurance we've discussed), do you have any other insurance that pays any part of hospital or doctor bills? Sometimes this is called a Medigap or Medicare Supplement policy.)" If the answer is "yes," then the number of plans is asked.

The source of the first or only plan is then collected: "[Thinking about the first of these plans] How did you obtain this type of health insurance coverage? Was it through your (or your husband's/or your wife's/or your partner's) employer or union, or through an organization or what?" Multiple answers are allowed and up to three responses are reported.

If there is more than one plan, a second follow-up question asks: "Thinking about your other health insurance plans, how did you obtain this type of health insurance coverage? Was it through your (or your husband's/or your wife's/or your partner's) employer or union, or through an organization or what?" Up to three responses are reported. If the Respondent reports the coverage is from "OTHER ORGANIZATION," "Self; not through any organization," or "OTHER," then RWHIOTHP is set to "yes."

In Waves 3H, 4 and 5, the questions are worded consistently. If the Respondent is covered by Medicare and does not report having an employer-provided Medigap plan, a first question asks: "Not counting long-term care insurance or Medicare, (or Medicaid/or any other insurance we've discussed), do you have any other insurance that pays any part of hospital or doctor bills? Sometimes this is called a Medigap or Medicare Supplement policy."

If the Respondent is not covered by any government or employer-provided insurance, a second question asks: "Do you have any basic health insurance coverage purchased directly from an insurance company or through a membership organization?" A subsequent question asked who else is covered. If the Respondent indicates that the spouse is covered, we apply the information on SWHIOTHP if married.

In Wave 5, there is an additional question if the prior question was not answered and the Respondent is not covered by Medicare or through self-employment: "Not counting long-term care policies or the health insurance you already told me about, do you have any other health insurance coverage that you purchased directly from an insurance company or through a membership organization?"

Beginning in Wave 6, after asking about government insurance, a question first asks if the Respondent has any other health coverage besides long-term care insurance. This is followed by a series of questions of about the source of the private health insurance. The initial question is:

"Now, we'd like to ask about all the other types of health insurance plans you might have, such as insurance through an employer or a business, coverage for retirees, or health insurance you buy for yourself, including any (Medigap or) other supplemental coverage. Do not include long-term care insurance. Other than your Medicare HMO you've just told me about, or anything that you have just told me about, how many other such plans do you have?"

A series of follow-up questions ask separately about the source of the insurance until the source is identified. If the Respondent is currently working, the first question asks: "Do you obtain this health insurance through your (own business or professional organization/current employer)?" If the Respondent is not working, s/he is asked: "Do you obtain this

health insurance through a former employer of yours?" If the Respondent is married or partnered, the next questions ask if insurance is obtained "through your (husband/wife/partner)'s current employer?" or "through your (husband/wife/partner)'s former employer?" If the source still has not been identified, a final question asks: "Did you purchase this plan directly from an insurance company, through your (or your [husband/wife/partner]'s/or your) union, through a group such as AARP, a church, or other organization, or what?" If the Respondent indicates that his coverage is from an insurance company, group or other, we set RwhIOTHP to "yes."

In Wave 1, Wave 2H and Wave 3H forward, the other health insurance questions asks if the Respondent purchased it by himself. In Waves 2A and 3A, and from Wave 6 forward, the other health insurance questions are combined with employer provided insurance questions.

In Waves 3H, 4 and 5, if the Respondent has Medicare and employer provided Medigap, or no Medicare and has any government insurance, then the questions are skipped. For all other waves, the questions are asked of everyone.

## HRS Variables Used

HRS 1992:	
VR6632	R14:COV FRM INS CO:IMP/ Self
VR6633	R14aA:CO/ORG:BASC HLTH/ Self
VR6634	R14aB:CO/ORG:MEDIGAP/ Self
VR6635	R14aC:CO/ORG:SUPPLMNTL/ Self
VR6637	R14aE:CO/ORG:OTHER/ Self
AHEAD 1993:	
B1859	R6. R OTHER HEALTH INSURANCE: ANY
B1865A1	R7. R OTHER HEALTH INSURANCE: TYPE-1
B1865A2	R7. R OTHER HEALTH INSURANCE: TYPE-2
B1865A3	R7. R OTHER HEALTH INSURANCE: TYPE-3
B1865A4	R7. R OTHER HEALTH INSURANCE: TYPE-4
HRS 1994:	
W6754	R14.INSURANCE FROM COMPA
W6757	R14b.SUPPLEMENTARY HEALT
W6758	R14c.KIND OF PRIVATE HEA
W6759	R14c.KIND OF PRIVATE HEA
AHEAD 1995:	
D5214	R9. OTHER HEALTH INSURANCE
D5225M1	R10D-1. HOW OBTAIN OTHER HMO-1
D5225M2	R10D-2. HOW OBTAIN OTHER HMO-1
D5225M3	R10D. HOW OBTAIN OTHER HMO-1
D5242M1	R11D-1. HOW OBTAIN OTHER HMO-1
D5242M2	R11D-2. HOW OBTAIN OTHER HMO-1
HRS 1996:	
E5133	R1.MEDICARE COVERAGE
E5206	R46.OTHER INSURANCE
E5218	R48.ANY OTHER HEALTH INSUR
E5225M1	R54A.WHO ELSE COVERED
E5225M2	R54A.WHO ELSE COVERED
E5225M3	R54A.WHO ELSE COVERED
E5225M4	R54A.WHO ELSE COVERED
E5225M5	R54A.WHO ELSE COVERED
HRS 1998:	
F5938	R46.OTHER INSURANCE
F5950	R48.ANY OTHER HEALTH INSUR
F5957M1	R54A.WHO ELSE COVERED
F5957M2	R54A.WHO ELSE COVERED
F5957M3	R54A.WHO ELSE COVERED
F5957M4	R54A.WHO ELSE COVERED

F5957M5	R54A.WHO ELSE COVERED
HRS 2000:	
G6312	R46.OTHER INSURANCE
G6324	R48.ANY HEALTH INSUR
G6325	R48B.ANY OTHER PURCHASED HEALTH INS
G6331M1	R54A.WHO ELSE COVERED
G6331M2	R54A.WHO ELSE COVERED
G6331M3	R54A.WHO ELSE COVERED
G6331M4	R54A.WHO ELSE COVERED
G6331M5	R54A.WHO ELSE COVERED
G6331M6	R54A.WHO ELSE COVERED
HRS 2002:	
HN023	NUM PRIVATE HEALTH INS PLANS
HN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
HN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
HN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2004:	
JN023	NUM PRIVATE HEALTH INS PLANS
JN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
JN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
JN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2006:	
KN023	NUM PRIVATE HEALTH INS PLANS
KN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
KN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
KN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2008:	
LN023	NUM PRIVATE HEALTH INS PLANS
LN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
LN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
LN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2010:	
MN023	NUM PRIVATE HEALTH INS PLANS
MN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
MN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
MN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2012:	
NN023	NUM PRIVATE HEALTH INS PLANS
NN037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
NN037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
NN037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
HRS 2014:	
ON023	NUM PRIVATE HEALTH INS PLANS
ON037_1	WHERE PURCHASE PRIVATE PLAN INSURANCE- 1
ON037_2	WHERE PURCHASE PRIVATE PLAN INSURANCE- 2
ON037_3	WHERE PURCHASE PRIVATE PLAN INSURANCE- 3
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT

<b>Covered by long-term care insurance</b>
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Wave	Variable	Label	Type
1	R1HILTC	R1HILTC:W1 R has Long Term Care Ins	Categ
2	R2HILTC	R2HILTC:W2 R has Long Term Care Ins	Categ
3	R3HILTC	R3HILTC:W3 R has Long Term Care Ins	Categ
4	R4HILTC	R4HILTC:W4 R has Long Term Care Ins	Categ
5	R5HILTC	R5HILTC:W5 R has Long Term Care Ins	Categ
6	R6HILTC	R6HILTC:W6 R has Long Term Care Ins	Categ
7	R7HILTC	R7HILTC:W7 R has Long Term Care Ins	Categ
8	R8HILTC	R8HILTC:W8 R has Long Term Care Ins	Categ
9	R9HILTC	R9HILTC:W9 R has Long Term Care Ins	Categ
10	R10HILTC	R10HILTC:W10 R has Long Term Care Ins	Categ
11	R11HILTC	R11HILTC:W11 R has Long Term Care Ins	Categ
12	R12HILTC	R12HILTC:W12 R has Long Term Care Ins	Categ
1	S1HILTC	S1HILTC:W1 S has Long Term Care Ins	Categ
2	S2HILTC	S2HILTC:W2 S has Long Term Care Ins	Categ
3	S3HILTC	S3HILTC:W3 S has Long Term Care Ins	Categ
4	S4HILTC	S4HILTC:W4 S has Long Term Care Ins	Categ
5	S5HILTC	S5HILTC:W5 S has Long Term Care Ins	Categ
6	S6HILTC	S6HILTC:W6 S has Long Term Care Ins	Categ
7	S7HILTC	S7HILTC:W7 S has Long Term Care Ins	Categ
8	S8HILTC	S8HILTC:W8 S has Long Term Care Ins	Categ
9	S9HILTC	S9HILTC:W9 S has Long Term Care Ins	Categ
10	S10HILTC	S10HILTC:W10 S has Long Term Care Ins	Categ
11	S11HILTC	S11HILTC:W11 S has Long Term Care Ins	Categ
12	S12HILTC	S12HILTC:W12 S has Long Term Care Ins	Categ
2	R2TYLTC	R2TYLTC:W2 R Type of Long Term Care Ins	Categ
3	R3TYLTC	R3TYLTC:W3 R Type of Long Term Care Ins	Categ
4	R4TYLTC	R4TYLTC:W4 R Type of Long Term Care Ins	Categ
5	R5TYLTC	R5TYLTC:W5 R Type of Long Term Care Ins	Categ
6	R6TYLTC	R6TYLTC:W6 R Type of Long Term Care Ins	Categ
7	R7TYLTC	R7TYLTC:W7 R Type of Long Term Care Ins	Categ
8	R8TYLTC	R8TYLTC:W8 R Type of Long Term Care Ins	Categ
9	R9TYLTC	R9TYLTC:W9 R Type of Long Term Care Ins	Categ
10	R10TYLTC	R10TYLTC:W10 R Type of Long Term Care Ins	Categ
11	R11TYLTC	R11TYLTC:W11 R Type of Long Term Care Ins	Categ
12	R12TYLTC	R12TYLTC:W12 R Type of Long Term Care Ins	Categ
2	S2TYLTC	S2TYLTC:W2 S Type of Long Term Care Ins	Categ
3	S3TYLTC	S3TYLTC:W3 S Type of Long Term Care Ins	Categ
4	S4TYLTC	S4TYLTC:W4 S Type of Long Term Care Ins	Categ
5	S5TYLTC	S5TYLTC:W5 S Type of Long Term Care Ins	Categ
6	S6TYLTC	S6TYLTC:W6 S Type of Long Term Care Ins	Categ
7	S7TYLTC	S7TYLTC:W7 S Type of Long Term Care Ins	Categ
8	S8TYLTC	S8TYLTC:W8 S Type of Long Term Care Ins	Categ
9	S9TYLTC	S9TYLTC:W9 S Type of Long Term Care Ins	Categ
10	S10TYLTC	S10TYLTC:W10 S Type of Long Term Care Ins	Categ
11	S11TYLTC	S11TYLTC:W11 S Type of Long Term Care Ins	Categ
12	S12TYLTC	S12TYLTC:W12 S Type of Long Term Care Ins	Categ
1	R1LTCPRM	R1LTCPRM:W1 Long Term Care Insurance Plan Monthly Premium	Cont
2	R2LTCPRM	R2LTCPRM:W2 Long Term Care Insurance Plan Monthly Premium	Cont
3	R3LTCPRM	R3LTCPRM:W3 Long Term Care Insurance Plan Monthly Premium	Cont
4	R4LTCPRM	R4LTCPRM:W4 Long Term Care Insurance Plan Monthly Premium	Cont
5	R5LTCPRM	R5LTCPRM:W5 Long Term Care Insurance Plan Monthly Premium	Cont
6	R6LTCPRM	R6LTCPRM:W6 Long Term Care Insurance Plan Monthly Premium	Cont
7	R7LTCPRM	R7LTCPRM:W7 Long Term Care Insurance Plan Monthly Premium	Cont
8	R8LTCPRM	R8LTCPRM:W8 Long Term Care Insurance Plan Monthly Premium	Cont
9	R9LTCPRM	R9LTCPRM:W9 Long Term Care Insurance Plan Monthly Premium	Cont
10	R10LTCPRM	R10LTCPRM:W10 Long Term Care Insurance Plan Monthly Premium	Cont
11	R11LTCPRM	R11LTCPRM:W11 Long Term Care Insurance Plan Monthly Premium	Cont
12	R12LTCPRM	R12LTCPRM:W12 Long Term Care Insurance Plan Monthly Premium	Cont
1	S1LTCPRM	S1LTCPRM:W1 Long Term Care Insurance Plan Monthly Premium	Cont
2	S2LTCPRM	S2LTCPRM:W2 Long Term Care Insurance Plan Monthly Premium	Cont
3	S3LTCPRM	S3LTCPRM:W3 Long Term Care Insurance Plan Monthly Premium	Cont

4	S4LTCPRM	S4LTCPRM:W4 Long Term Care Insurance Plan Monthly Premium	Cont
5	S5LTCPRM	S5LTCPRM:W5 Long Term Care Insurance Plan Monthly Premium	Cont
6	S6LTCPRM	S6LTCPRM:W6 Long Term Care Insurance Plan Monthly Premium	Cont
7	S7LTCPRM	S7LTCPRM:W7 Long Term Care Insurance Plan Monthly Premium	Cont
8	S8LTCPRM	S8LTCPRM:W8 Long Term Care Insurance Plan Monthly Premium	Cont
9	S9LTCPRM	S9LTCPRM:W9 Long Term Care Insurance Plan Monthly Premium	Cont
10	S10LTCPRM	S10LTCPRM:W10 Long Term Care Insurance Plan Monthly Premium	Cont
11	S11LTCPRM	S11LTCPRM:W11 Long Term Care Insurance Plan Monthly Premium	Cont
12	S12LTCPRM	S12LTCPRM:W12 Long Term Care Insurance Plan Monthly Premium	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HILTC	12246	0.01	0.10	0.0	1.0
R2HILTC	19108	0.07	0.25	0.0	1.0
R3HILTC	17534	0.10	0.30	0.0	1.0
R4HILTC	20696	0.09	0.29	0.0	1.0
R5HILTC	19164	0.09	0.29	0.0	1.0
R6HILTC	17880	0.11	0.31	0.0	1.0
R7HILTC	19834	0.11	0.32	0.0	1.0
R8HILTC	18193	0.12	0.32	0.0	1.0
R9HILTC	16917	0.12	0.33	0.0	1.0
R10HILTC	21293	0.12	0.32	0.0	1.0
R11HILTC	20178	0.11	0.32	0.0	1.0
R12HILTC	18367	0.12	0.32	0.0	1.0
S1HILTC	9866	0.01	0.10	0.0	1.0
S2HILTC	12849	0.06	0.24	0.0	1.0
S3HILTC	11637	0.11	0.31	0.0	1.0
S4HILTC	13566	0.10	0.30	0.0	1.0
S5HILTC	12482	0.11	0.31	0.0	1.0
S6HILTC	11469	0.12	0.33	0.0	1.0
S7HILTC	12793	0.13	0.33	0.0	1.0
S8HILTC	11576	0.13	0.34	0.0	1.0
S9HILTC	10489	0.14	0.35	0.0	1.0
S10HILTC	13103	0.13	0.33	0.0	1.0
S11HILTC	12292	0.12	0.33	0.0	1.0
S12HILTC	10840	0.12	0.33	0.0	1.0
R2TYLTC	1069	2.23	0.92	1.0	3.0
R3TYLTC	1620	2.64	1.15	1.0	7.0
R4TYLTC	1767	2.54	0.89	1.0	7.0
R5TYLTC	1682	2.63	0.79	1.0	7.0
R6TYLTC	1844	2.71	0.83	1.0	7.0
R7TYLTC	2101	2.76	0.79	1.0	7.0
R8TYLTC	2011	2.72	0.70	1.0	7.0
R9TYLTC	1947	2.76	0.69	1.0	7.0
R10TYLTC	2375	2.78	0.71	1.0	7.0
R11TYLTC	2171	2.75	0.67	1.0	7.0
R12TYLTC	2034	2.76	0.69	1.0	7.0
S2TYLTC	633	2.28	0.90	1.0	3.0
S3TYLTC	1168	2.70	1.15	1.0	7.0
S4TYLTC	1250	2.58	0.89	1.0	7.0
S5TYLTC	1244	2.66	0.77	1.0	7.0
S6TYLTC	1324	2.74	0.81	1.0	7.0
S7TYLTC	1527	2.78	0.76	1.0	7.0

S8TYLTC	1417	2.74	0.67	1.0	7.0
S9TYLTC	1369	2.79	0.68	1.0	7.0
S10TYLTC	1565	2.80	0.65	1.0	7.0
S11TYLTC	1421	2.78	0.65	1.0	7.0
S12TYLTC	1278	2.80	0.61	1.0	7.0
R1LTCPRM	77	44.90	42.98	0.4	290.0
R2LTCPRM	961	97.73	103.21	0.0	990.0
R3LTCPRM	1434	77.87	139.26	0.0	4000.0
R4LTCPRM	1634	107.39	338.14	0.0	9995.0
R5LTCPRM	1572	152.32	628.49	0.0	15600.0
R6LTCPRM	1277	159.98	144.74	0.0	2600.0
R7LTCPRM	1498	177.65	422.47	0.0	13170.0
R8LTCPRM	1492	196.62	651.13	0.0	17668.0
R9LTCPRM	1456	224.27	921.80	0.0	20774.0
R10LTCPRM	1503	183.38	426.75	0.0	14807.0
R11LTCPRM	1416	195.82	730.83	0.0	26740.0
R12LTCPRM	1296	181.99	208.79	0.0	4000.0
S1LTCPRM	59	49.13	44.38	8.3	290.0
S2LTCPRM	574	101.37	105.26	0.0	900.0
S3LTCPRM	1029	80.75	154.47	0.0	4000.0
S4LTCPRM	1138	114.24	377.95	0.0	9995.0
S5LTCPRM	1138	152.44	565.81	0.0	15000.0
S6LTCPRM	924	168.09	140.43	0.0	2600.0
S7LTCPRM	1085	169.04	128.40	0.0	1333.3
S8LTCPRM	1052	189.70	375.14	0.0	10530.0
S9LTCPRM	1016	253.59	1097.22	0.0	20774.0
S10LTCPRM	1012	192.47	225.94	0.0	3600.0
S11LTCPRM	951	189.90	167.46	0.0	2083.3
S12LTCPRM	821	200.95	227.85	0.0	4000.0

## Categorical Variable Codes

Value	R1HILTC	R2HILTC	R3HILTC	R4HILTC	R5HILTC	R6HILTC	R7HILTC
.D=DK/NA	23	431	356	594	351	249	261
.M=Oth missing	383	78	85	72	49	15	20
.R=RF		25	16	22	15	21	14
0.No	12128	17840	15762	18765	17356	15918	17606
1.Yes	118	1268	1772	1931	1808	1962	2228

Value	R8HILTC	R9HILTC	R10HILTC	R11HILTC	R12HILTC
.D=DK/NA	246	270	441	288	304
.M=Oth missing	16	17	261	63	50
.R=RF	14	13	39	25	26
0.No	16039	14839	18763	17881	16191
1.Yes	2154	2078	2530	2297	2176

Value	S1HILTC	S2HILTC	S3HILTC	S4HILTC	S5HILTC	S6HILTC	S7HILTC
.D=DK/NA	14	202	245	384	231	150	166
.M=Oth missing	399	23	29	16	10	5	4
.R=RF		14	4	12	7	15	9
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.No	9776	12063	10362	12210	11149	10065	11183
1.Yes	90	786	1275	1356	1333	1404	1610

Value	S8HILTC	S9HILTC	S10HILTC	S11HILTC	S12HILTC
.D=DK/NA	149	146	240	164	159
.M=Oth missing	3	4	148	19	16
.R=RF	7	7	22	13	12
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	10055	9034	11445	10797	9493
1.Yes	1521	1455	1658	1495	1347

Value	R2TYLTC	R3TYLTC	R4TYLTC	R5TYLTC	R6TYLTC	R7TYLTC
.D=DK	396	148	163	126	118	127
.M=Oth missing		4				
.Q=Not asked this wv	11420					
.R=RF	3		1			
.S=Skip, no LTC	6754	16219	19453	17771	16203	17901
1.Nursing home care only	355	318	340	252	253	248
2.In-home care only	115	172	185	142	98	98
3.Both	599	1073	1228	1280	1474	1734
7.Other		57	14	8	19	21

Value	R8TYLTC	R9TYLTC	R10TYLTC	R11TYLTC	R12TYLTC
.D=DK	143	130	153	125	139
.M=Oth missing					1
.R=RF		1	2	1	2
.S=Skip, no LTC	16315	15139	19504	18257	16571
1.Nursing home care only	247	210	244	231	210
2.In-home care only	78	84	100	95	95
3.Both	1682	1645	2017	1839	1720
7.Other	4	8	14	6	9



Value	S2TYLTC	S3TYLTC	S4TYLTC	S5TYLTC	S6TYLTC	S7TYLTC
.D=DK	185	103	105	89	80	83
.M=Oth missing		4				
.Q=Not asked this wv	9123					
.R=RF			1			
.S=Skip, no LTC	3531	10640	12622	11397	10235	11362
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	418	537	311	220	380
1.Nursing home care only	192	204	227	176	168	166
2.In-home care only	71	126	121	95	64	65
3.Both	370	793	891	968	1078	1282
7.Other		45	11	5	14	14

Value	S8TYLTC	S9TYLTC	S10TYLTC	S11TYLTC	S12TYLTC
.D=DK	104	85	93	74	69
.R=RF		1			
.S=Skip, no LTC	10214	9191	11855	10993	9680
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Nursing home care only	163	131	139	136	107
2.In-home care only	45	48	56	54	53
3.Both	1207	1183	1363	1227	1115
7.Other	2	7	7	4	3

## How Constructed

RwHILTC indicates whether the Respondent is covered by long-term care insurance. RwTYLTC indicates whether the long-term care insurance covers nursing home care only, in-home care only, or both. RwLTCPRM indicates the amount in nominal dollars that the Respondent pays monthly for long-term care coverage. SwHILTC, SwTYLTC, and SwLTCPRM provide the information for the Respondent's spouse or partner.

Though the question structure varies across waves, long-term care insurance coverage can be identified in all of them. If the Respondent indicates that s/he is currently covered by long-term care insurance, then RwHILTC is set to yes (=1). If the Respondent indicates not having coverage, then RwHILTC is set to no (=0). Otherwise, RwHILTC is set to a missing value based on missing values in the HRS variables.

In Wave 2A and from Wave 3 forward, there is a follow-up question(s) about the type of long-term care when the Respondent indicates having long-term care coverage. This question asks whether long-term care covers nursing home care only, long-term care at home, or both. RwTYLTC indicates the type of long-term care coverage based on this question. If the Respondent does not have long-term coverage, then RwTYLTC is set to skip (.S). In Wave 1, R1TYLTC and S1TYLTC are not available because the question is not asked.

If a Respondent indicates having long-term care coverage, there is a series of follow-up questions asking the amount the Respondent pays monthly for long-term care insurance premiums. In all Waves, the Respondent reports the amount paid as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are converted to monthly amounts. If the Respondent does not report a clear time period for amount paid (e.g., lump sum, "other"), then the monthly amount cannot be calculated and RwLTCPRM is set to .K.

In Waves 1 and 2, the long-term care premium amount is included with the premium amounts for "other" types of insurance. If a Respondent indicates having long-term care and another type of "other" insurance, then RwLTCPRM is set to .C=Covered elsewhere. The total amount for all "other" insurance listed can be seen in RwPRPRMx, where "x" indicates the plan number, 1 to 3. If the Respondent does not have long-term care coverage, then RwLTCPRM is set to skip (.S).

From Wave 6 forward, if the Respondent indicates that the long-term care coverage is included a previously described plan, then the premium questions are not asked and `RwLTCPRM` is set to `.C` to indicate that the long-term care premium is covered elsewhere.

In Wave 1, `S1HILTC` and `S1LTCPRM` are taken from the Financial Respondent's information as appropriate. That is, if the Respondent is the Financial Respondent, then `S1HILTC` and `S1LTCPRM` contain the Financial Respondent's spouse's information. If the Respondent is the spouse of the Financial Respondent, then `S1HILTC` and `S1LTCPRM` contain the Financial Respondent's information.

From Wave 2 on, `SwHILTC`, `SwTYLTC`, and `SwLTCPRM` are taken from the spouse's self-reported `RwHILTC`, `RwTYLTC`, and `RwLTCPRM` variables, if available. If the Respondent is not married, `SwHILTC`, `SwTYLTC`, and `SwLTCPRM` are set to `.U=unmarried`. If the Respondent's spouse did not respond then `SwHILTC`, `SwTYLTC`, and `SwLTCPRM` are set to `.V=Spouse is non-response`.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the health insurance questions are asked only of the Financial Respondent, about the Financial Respondent's insurance coverage and, if married, her/his spouse's insurance coverage. From Wave 2 forward, health insurance questions are asked of individual Respondents about their own coverage only.

In Waves 1, 2H and 2A, there is a lead-in question asking whether the Respondent has any other health insurance. In Waves 1 and 2H, the question is: "Do you have any type of health insurance coverage, Medigap or other supplemental coverage, or long-term care insurance that is purchased directly from an insurance company or through a membership organization such as AARP (the American Association of Retired Persons)?" In Wave 2A, the question is: "Do you have any (other) type of health insurance coverage?"

A follow-up question asks the type of insurance. In Wave 1, any of five possible answers may be given: 1) basic health ("Hospitalization"), 2) Medigap, 3) other supplemental health (AARP-NFS), 4) long-term care (incl. nursing home care) or 5) other(specify).

In Wave 2A, the question asks: "What kind of coverage do you have? Is it basic health insurance, a supplement to Medicare (MEDIGAP) or other health insurance, long-term care insurance, or what?" There are 5 different answers: 1) Basic Health, 2) Medigap, 3) Other Supplemental plan, 4) Long-term Care and 5) Other Specify. Up to four responses are reported.

In Wave 2H, the question asks: "What kind of coverage do you have? Medigap or other supplemental health insurance, long-term care insurance, or what?" The possible responses are: 1) Medigap, 2) Other Supplemental health, 3) Long-term Care (incl. Nursing home care), 4) Heart /cardiac policy, 5) Cancer, 6) dental insurance, 7) Major medical, 8) Hospitalization, 9) Disability, 10) Policy that pays so much per day and 11) Other specific type of insurance.

In Waves 1 and 2H, there is no question about the type of long-term care coverage. In Wave 2A, the type of long-term care coverage is asked in two questions. The first question asks: "Do any of your policies include long-term or nursing home care?" The second question asks: "Does this plan cover home care?"

In Waves 1, 2H and 2A, the question about premiums asks about the amount paid for all listed types of insurance the Respondent indicated in the follow-up question about the type of insurance. These options are listed above. In Wave 1 and 2H, the question asks: "How much do you pay for this insurance?" In Wave 2A, the question asks: "(Again, not counting Medicare,) (How much do you pay for this policy/Taken together, how much do you pay for these policies?)" If a Respondent indicates having long-term care and another type of "other" insurance, then `RwLTCPRM` is set to `.C=Covered elsewhere`.

In Wave 3 and forward, the long-term care question is asked separately: "Not including government programs, do you now have any insurance which specifically pays any part of long-term care, such as, personal or medical care in the home or in a nursing home?" The type of long-term care question is: "Does this plan cover care in a nursing home facility only, personal or long-term care at home, or both in-home and nursing home care?"

In Waves 3 to 5, the long-term care premium question is: "About how much do you pay for this plan?"

From Wave 6 forward, the long-term care premium question is: "How much do you (or your [husband/wife/partner]) pay for this plan?/How much do you (or your [husband/wife/partner]) pay for this long-term care coverage?" If the Respondent indicates that the long-term care coverage is from a previously described plan, then the premium questions are not asked and RwlTCPRM is set to .C to indicate that the long-term care premium is covered elsewhere.

## HRS Variables Used

### HRS 1992:

VP6632	R14:COV FRM INS CO:IMP/ Sp-Prtnr
VP6633	R14aA:CO/ORG:BASC HLTH/ Sp-Prtnr
VP6634	R14aB:CO/ORG:MEDIGAP/ Sp-Prtnr
VP6635	R14aC:CO/ORG:SUPPLMNTL/ Sp-Prtnr
VP6636	R14aD:CO/ORG:LN-TRM CR/ Sp-Prtnr
VP6637	R14aE:CO/ORG:OTHER/ Sp-Prtnr
VP6638	R14B:CO/ORG:\$ PLN :IMP/ Sp-Prtnr
VP6639	R14B:CO/ORG:COST P:IMP/ Sp-Prtnr
VR6632	R14:COV FRM INS CO:IMP/ Self
VR6633	R14aA:CO/ORG:BASC HLTH/ Self
VR6634	R14aB:CO/ORG:MEDIGAP/ Self
VR6635	R14aC:CO/ORG:SUPPLMNTL/ Self
VR6636	R14aD:CO/ORG:LN-TRM CR/ Self
VR6637	R14aE:CO/ORG:OTHER/ Self
VR6638	R14B:CO/ORG:\$ PLN :IMP/ Self
VR6639	R14B:CO/ORG:COST P:IMP/ Self

### AHEAD 1993:

B1859	R6. R OTHER HEALTH INSURANCE: ANY
B1865A1	R7. R OTHER HEALTH INSURANCE: TYPE-1
B1865A2	R7. R OTHER HEALTH INSURANCE: TYPE-2
B1865A3	R7. R OTHER HEALTH INSURANCE: TYPE-3
B1865A4	R7. R OTHER HEALTH INSURANCE: TYPE-4
B1867	R9. R OTH HEALTH INS: TOTAL COST TO R
B1868	R9a. R OTH HEALTH INSUR: TOT COST PERIOD
B1879	R10. R LONG-TERM CARE INS: ANY
B1881	R10b. R L-T CARE INS: COVER HOME CARE

### HRS 1994:

W6757	R14b.SUPPLEMENTARY HEALT
W6758	R14c.KIND OF PRIVATE HEA
W6759	R14c.KIND OF PRIVATE HEA
W6760	R14c.KIND OF PRIVATE HEA
W6761	R14c.KIND OF PRIVATE HEA
W6762	R14d1.COST FOR PRIVATE H
W6763	R14d2.PER

### AHEAD 1995:

D5263	R15.R LONG-TERM CARE
D5264	R15A. L-T-C COVER
D5267	R15D. L-T CARE PAY
D5268	R15E. PER R15D.

### HRS 1996:

E5266	R85.LTC INSURANCE
E5267	R87.COVER NURSING HOME/IN-HOME CARE
E5270	R90.AMT PAY FOR LTC
E5271	R90.AMT PAY FOR LTC PER
HRS 1998:	
F5999	R85.LTC INSURANCE
F6000	R87.COVER NURSING HOME/IN-HOME CARE
F6003	R90.AMT PAY FOR LTC
F6004	R90.AMT PAY FOR LTC-PER
HRS 2000:	
G6393	R85.LTC INSURANCE
G6394	R87.COVER NURSING HOME/IN-HOME CARE
G6397	R90.AMT PAY FOR LTC
G6398	R90Y1.PER
HRS 2002:	
HN071	LTC INSURANCE
HN072	LTC COV- NEW OR PRE MENTION PLAN
HN073	LTC COV- WHICH PREV MENTION PLAN
HN075	COVER NURSING HOME/IN-HOME CARE
HN079	AMT PAY FOR LTC
HN083	AMT PAY FOR LTC PER
HRS 2004:	
JN071	LTC INSURANCE
JN072	LTC COV- NEW OR PRE MENTION PLAN
JN073	LTC COV- WHICH PREV MENTION PLAN
JN075	COVER NURSING HOME/IN-HOME CARE
JN079	AMT PAY FOR LTC
JN083	AMT PAY FOR LTC PER
HRS 2006:	
KN071	LTC INSURANCE
KN072	LTC COV- NEW OR PRE MENTION PLAN
KN073	LTC COV- WHICH PREV MENTION PLAN
KN075	COVER NURSING HOME/IN-HOME CARE
KN079	AMT PAY FOR LTC
KN083	AMT PAY FOR LTC PER
HRS 2008:	
LN071	LTC INSURANCE
LN072	LTC COV- NEW OR PRE MENTION PLAN
LN073	LTC COV- WHICH PREV MENTION PLAN
LN075	COVER NURSING HOME/IN-HOME CARE
LN079	AMT PAY FOR LTC
LN083	AMT PAY FOR LTC PER
HRS 2010:	
MN071	LTC INSURANCE
MN072	LTC COV- NEW OR PRE MENTION PLAN
MN073	LTC COV- WHICH PREV MENTION PLAN
MN075	COVER NURSING HOME/IN-HOME CARE
MN079	AMT PAY FOR LTC
MN083	AMT PAY FOR LTC PER
HRS 2012:	
NN071	LTC INSURANCE
NN072	LTC COV- NEW OR PRE MENTION PLAN
NN073	LTC COV- WHICH PREV MENTION PLAN
NN075	COVER NURSING HOME/IN-HOME CARE
NN079	AMT PAY FOR LTC
NN083	AMT PAY FOR LTC PER
HRS 2014:	
ON071	LTC INSURANCE
ON072	LTC COV- NEW OR PRE MENTION PLAN

ON073	LTC COV- WHICH PREV MENTION PLAN
ON075	COVER NURSING HOME/IN-HOME CARE
ON079	AMT PAY FOR LTC
ON083	AMT PAY FOR LTC PER
Tracker:	
AFINR	1992 WHETHER FINANCIAL RESPONDENT

<b>Covered by life insurance</b>
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Wave	Variable	Label	Type
1	R1LIFEIN	R1LIFEIN:W1 R has Life Insurance	Categ
2	R2LIFEIN	R2LIFEIN:W2 R has Life Insurance	Categ
3	R3LIFEIN	R3LIFEIN:W3 R has Life Insurance	Categ
4	R4LIFEIN	R4LIFEIN:W4 R has Life Insurance	Categ
5	R5LIFEIN	R5LIFEIN:W5 R has Life Insurance	Categ
6	R6LIFEIN	R6LIFEIN:W6 R has Life Insurance	Categ
7	R7LIFEIN	R7LIFEIN:W7 R has Life Insurance	Categ
8	R8LIFEIN	R8LIFEIN:W8 R has Life Insurance	Categ
9	R9LIFEIN	R9LIFEIN:W9 R has Life Insurance	Categ
10	R10LIFEIN	R10LIFEIN:W10 R has Life Insurance	Categ
11	R11LIFEIN	R11LIFEIN:W11 R has Life Insurance	Categ
12	R12LIFEIN	R12LIFEIN:W12 R has Life Insurance	Categ
1	S1LIFEIN	S1LIFEIN:W1 S has Life Insurance	Categ
2	S2LIFEIN	S2LIFEIN:W2 S has Life Insurance	Categ
3	S3LIFEIN	S3LIFEIN:W3 S has Life Insurance	Categ
4	S4LIFEIN	S4LIFEIN:W4 S has Life Insurance	Categ
5	S5LIFEIN	S5LIFEIN:W5 S has Life Insurance	Categ
6	S6LIFEIN	S6LIFEIN:W6 S has Life Insurance	Categ
7	S7LIFEIN	S7LIFEIN:W7 S has Life Insurance	Categ
8	S8LIFEIN	S8LIFEIN:W8 S has Life Insurance	Categ
9	S9LIFEIN	S9LIFEIN:W9 S has Life Insurance	Categ
10	S10LIFEIN	S10LIFEIN:W10 S has Life Insurance	Categ
11	S11LIFEIN	S11LIFEIN:W11 S has Life Insurance	Categ
12	S12LIFEIN	S12LIFEIN:W12 S has Life Insurance	Categ
1	R1WLIPRM	R1WLIPRM:W1 Whole Life Insurance Monthly Premium	Cont
2	R2WLIPRM	R2WLIPRM:W2 Whole Life Insurance Monthly Premium	Cont
3	R3WLIPRM	R3WLIPRM:W3 Whole Life Insurance Monthly Premium	Cont
5	R5WLIPRM	R5WLIPRM:W5 Whole Life Insurance Monthly Premium	Cont
6	R6WLIPRM	R6WLIPRM:W6 Whole Life Insurance Monthly Premium	Cont
7	R7WLIPRM	R7WLIPRM:W7 Whole Life Insurance Monthly Premium	Cont
8	R8WLIPRM	R8WLIPRM:W8 Whole Life Insurance Monthly Premium	Cont
9	R9WLIPRM	R9WLIPRM:W9 Whole Life Insurance Monthly Premium	Cont
10	R10WLIPRM	R10WLIPRM:W10 Whole Life Insurance Monthly Premium	Cont
11	R11WLIPRM	R11WLIPRM:W11 Whole Life Insurance Monthly Premium	Cont
12	R12WLIPRM	R12WLIPRM:W12 Whole Life Insurance Monthly Premium	Cont
1	S1WLIPRM	S1WLIPRM:W1 Whole Life Insurance Monthly Premium	Cont
2	S2WLIPRM	S2WLIPRM:W2 Whole Life Insurance Monthly Premium	Cont
3	S3WLIPRM	S3WLIPRM:W3 Whole Life Insurance Monthly Premium	Cont
5	S5WLIPRM	S5WLIPRM:W5 Whole Life Insurance Monthly Premium	Cont
6	S6WLIPRM	S6WLIPRM:W6 Whole Life Insurance Monthly Premium	Cont
7	S7WLIPRM	S7WLIPRM:W7 Whole Life Insurance Monthly Premium	Cont
8	S8WLIPRM	S8WLIPRM:W8 Whole Life Insurance Monthly Premium	Cont
9	S9WLIPRM	S9WLIPRM:W9 Whole Life Insurance Monthly Premium	Cont
10	S10WLIPRM	S10WLIPRM:W10 Whole Life Insurance Monthly Premium	Cont
11	S11WLIPRM	S11WLIPRM:W11 Whole Life Insurance Monthly Premium	Cont
12	S12WLIPRM	S12WLIPRM:W12 Whole Life Insurance Monthly Premium	Cont
1	R1TLIPRM	R1TLIPRM:W1 Term Life Insurance Monthly Premium	Cont
2	R2TLIPRM	R2TLIPRM:W2 Term Life Insurance Monthly Premium	Cont
3	R3TLIPRM	R3TLIPRM:W3 Term Life Insurance Monthly Premium	Cont
1	S1TLIPRM	S1TLIPRM:W1 Term Life Insurance Monthly Premium	Cont
2	S2TLIPRM	S2TLIPRM:W2 Term Life Insurance Monthly Premium	Cont
3	S3TLIPRM	S3TLIPRM:W3 Term Life Insurance Monthly Premium	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIFEIN	12469	0.70	0.46	0.0	1.0
R2LIFEIN	19375	0.67	0.47	0.0	1.0
R3LIFEIN	17802	0.68	0.47	0.0	1.0
R4LIFEIN	21151	0.69	0.46	0.0	1.0
R5LIFEIN	19345	0.67	0.47	0.0	1.0
R6LIFEIN	17915	0.66	0.47	0.0	1.0
R7LIFEIN	19887	0.66	0.47	0.0	1.0
R8LIFEIN	18240	0.64	0.48	0.0	1.0
R9LIFEIN	16975	0.63	0.48	0.0	1.0
R10LIFEIN	21480	0.59	0.49	0.0	1.0
R11LIFEIN	20247	0.58	0.49	0.0	1.0
R12LIFEIN	18449	0.57	0.50	0.0	1.0
S1LIFEIN	10092	0.72	0.45	0.0	1.0
S2LIFEIN	13126	0.72	0.45	0.0	1.0
S3LIFEIN	11840	0.73	0.44	0.0	1.0
S4LIFEIN	13890	0.74	0.44	0.0	1.0
S5LIFEIN	12624	0.71	0.45	0.0	1.0
S6LIFEIN	11525	0.71	0.45	0.0	1.0
S7LIFEIN	12848	0.71	0.46	0.0	1.0
S8LIFEIN	11622	0.69	0.46	0.0	1.0
S9LIFEIN	10538	0.67	0.47	0.0	1.0
S10LIFEIN	13229	0.63	0.48	0.0	1.0
S11LIFEIN	12347	0.62	0.49	0.0	1.0
S12LIFEIN	10910	0.60	0.49	0.0	1.0
R1WLIPRM	3560	59.87	129.07	0.0	3500.0
R2WLIPRM	1759	30.06	151.66	0.0	4333.3
R3WLIPRM	1672	43.30	336.49	0.0	7500.0
R5WLIPRM	3778	114.68	626.78	0.0	8333.0
R6WLIPRM	4397	70.75	282.60	0.0	10000.0
R7WLIPRM	4954	289.17	1761.14	0.0	60000.0
R8WLIPRM	4300	86.84	1089.86	0.0	70000.0
R9WLIPRM	3927	84.09	587.70	0.0	33330.0
R10WLIPRM	4681	79.37	458.04	0.0	29088.0
R11WLIPRM	4391	83.80	284.58	0.0	11827.0
R12WLIPRM	3985	83.39	206.29	0.0	6666.7
S1WLIPRM	3051	59.73	111.88	0.0	1700.0
S2WLIPRM	1181	30.53	111.78	0.0	2500.0
S3WLIPRM	1034	56.82	420.92	0.0	7500.0
S5WLIPRM	2692	116.52	592.14	0.0	8333.0
S6WLIPRM	3118	75.54	276.51	0.0	10000.0
S7WLIPRM	3492	348.36	1982.03	0.0	60000.0
S8WLIPRM	3026	98.93	1291.77	0.0	70000.0
S9WLIPRM	2702	91.25	680.96	0.0	33330.0
S10WLIPRM	3132	87.57	543.31	0.0	29088.0
S11WLIPRM	2840	86.87	300.90	0.0	11827.0
S12WLIPRM	2488	89.16	186.43	0.0	3318.0
R1TLIPRM	5382	29.78	74.24	0.0	2100.0
R2TLIPRM	7356	27.26	83.24	0.0	4333.3
R3TLIPRM	2069	24.93	109.69	0.0	3309.0
S1TLIPRM	4369	30.38	68.89	0.0	900.0
S2TLIPRM	5192	29.52	68.05	0.0	2000.0

S3TLIPRM	1094	23.63	94.80	0.0	2500.0
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## Categorical Variable Codes

Value	R1LIFEIN	R2LIFEIN	R3LIFEIN	R4LIFEIN	R5LIFEIN	R6LIFEIN	R7LIFEIN
.D=DK/NA	20	74	63	103	114	140	123
.M=Oth missing	95	125	86	72	49	18	36
.R=RF	68	68	40	58	71	92	83
0.No	3728	6418	5682	6496	6419	6066	6793
1.Yes	8741	12957	12120	14655	12926	11849	13094

Value	R8LIFEIN	R9LIFEIN	R10LIFEIN	R11LIFEIN	R12LIFEIN
.D=DK/NA	125	139	160	127	122
.M=Oth missing	22	23	278	60	63
.R=RF	82	80	116	120	113
0.No	6490	6343	8843	8591	8004
1.Yes	11750	10632	12637	11656	10445

Value	S1LIFEIN	S2LIFEIN	S3LIFEIN	S4LIFEIN	S5LIFEIN	S6LIFEIN	S7LIFEIN
.D=DK/NA	28	48	30	44	57	62	63
.M=Oth missing	95	79	30	16	10	6	12
.R=RF	64	35	15	28	39	46	49
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR		384	418	537	311	220	380
0.No	2840	3739	3204	3618	3602	3362	3787
1.Yes	7252	9387	8636	10272	9022	8163	9061

Value	S8LIFEIN	S9LIFEIN	S10LIFEIN	S11LIFEIN	S12LIFEIN
.D=DK/NA	69	64	79	68	53
.M=Oth missing	5	5	149	14	18
.R=RF	39	39	56	59	46
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	3658	3464	4890	4744	4332
1.Yes	7964	7074	8339	7603	6578

## How Constructed

RwLIFEIN indicates whether the Respondent has any life insurance. This encompasses both whole life insurance policies, which are valid for an individual's entire life and include an investment component, as well as term life insurance policies, which are only valid for a predetermined period of time. RwWLIPRM indicates the amount in nominal dollars that the Respondent pays monthly for whole life insurance. RwTLIPRM indicates the amount in nominal dollars that the Respondent pays monthly for term life insurance. SwLIFEIN, SwWLIPRM, and SwTLIPRM provide this information for the Respondent's spouse or partner.

Life insurance coverage can be identified in all waves. The question asks if the Respondent (and in Waves 1 and 2A, the Financial Respondent's spouse) has any life insurance. The wording varies slightly across waves. It is asked at the household level of the Financial Respondent in Waves 1 and 2A, and at the Respondent level in Wave 2H and from Wave 3 forward. The variable for this question (RwLIFEIN) is simply recoded to 0/1 (No/Yes) and for missing values.

In Waves 1 through 3A, a series of follow up questions asks Respondents if any of these policies are for term life



insurance, and if so, how much the premium is for their term life insurance [policy/policies]. The Respondent reports the amount paid as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are converted to monthly amounts and reported in RwTLIPRM. If the Respondent does not report a clear time period for amount paid (e.g., missing, lump sum, "other"), then the monthly amount cannot be calculated and RwTLIPRM is set to .K. From Wave 3H forward, the question is not asked; in Wave 3H, RwTLIPRM is set to .Q and from Wave 4 forward, RwTLIPRM and SwTLIPRM are not available.

In Waves 1, 2A, 3A, and from Wave 5 forward, a series of follow up questions asks Respondents if any of these policies are for whole life insurance, and if so, how much the premium is for their whole life insurance [policy/policies]. The Respondent reports the amount paid as a fixed dollar amount per time period (e.g., bi-weekly, monthly). All dollar amounts are converted to monthly amounts and reported in RwWLIPRM. If the Respondent does not report a clear time period for amount paid (e.g., missing, lump sum, "other"), then the monthly amount cannot be calculated and RwWLIPRM is set to .K. In Waves 2H, 3H, and 4, the question is not asked; in Waves 2H and 3H RwWLIPRM is set to .Q and in Wave 4, RwWLIPRM and SwWLIPRM are not available.

For Waves 1 and 2A, SwLIFEIN, SwWLIPRM, and SwTLIPRM are taken from the Financial Respondent's information as appropriate. That is, if the Respondent is the Financial Respondent, then SwLIFEIN, SwWLIPRM, and SwTLIPRM contain the Financial Respondent's spouse's information. If the Respondent is the spouse of the Financial Respondent, then SwLIFEIN, SwWLIPRM, and SwTLIPRM contain the Financial Respondent's information.

In Wave 2H and from Wave 3 forward, the spouse information is taken from the spouse's self-reported RwLIFEIN, RwWLIPRM, and RwTLIPRM variables, if available.

If the Respondent is not married, SwLIFEIN, SwWLIPRM, and SwTLIPRM are set to .U=unmarried. If the Respondent's spouse did not respond then SwLIFEIN, SwWLIPRM, and SwTLIPRM are set to .V=Spouse is non-response.

### **Cross Wave Differences in Original HRS Data**

In Waves 1 and 2A, the life insurance questions are asked only of the Financial Respondent. Questions inquire about the Financial Respondent's insurance coverage and, if married, her/his spouse's insurance coverage. In Wave 2H and from Wave 3 forward, life insurance questions are asked of individual Respondents about their own coverage only.

For life insurance coverage, the question wording has varied slightly over time. In Waves 1, 2H, 5, and 6 forward, the question asks: "Do you have any life insurance, including individual or group policies?"

In Wave 2A, the question is preceded by: "My next questions are about life insurance. (First I will ask about insurance on own life then about insurance on your [spouse]'s life." The question then asks, "Do you yourself have any life insurance, including individual or group policies from a former employer or union or some other source?"

In Wave 1 and Wave 2A, a second question asks the Financial Respondent: "Does your [spouse] have any life insurance, including individual or group policies?"

In Wave 3A the question asks: "My next questions are about life insurance. Do you yourself have any life insurance, including individual or group policies from a former employer or union or some other source?"

In Waves 3H and 4 the question asks: "Do you currently have any life insurance?"

For term life insurance premiums, the question wording varies. In Waves 1 and 2H, the initial question asks, "Are any of these group or individual term insurance policies?" and the follow up questions asks, "About how much do you pay for (this/these) term insurance (policy/policies) each month or year?"

In Waves 2A and 3A, the initial question asks "Are any of these term insurance policies?" If the Respondent indicates s/he has only one term life insurance policy, the follow up question asks, "About how much do you pay for that insurance?" If the Respondent indicates s/he has more than one term life insurance policy, in Wave 2A, the follow up question asks, "About how much do you pay for the largest term insurance policy you have?" and in Wave 3A asks, "How much (in total) do you pay in premiums for term insurance?"

In Wave 2A, note that for term life insurance premiums, only the premium for the largest term policy is recorded. Also note that from Wave 4 forward, there are no questions about term life insurance premiums.

For whole life insurance premiums, the question wording varies across Waves. In Waves 1, 2A, and 3A, the initial question asks, "Do you have any life insurance policies that build up a cash value or that you can borrow on?" and includes the clarification, "Def: (These are sometimes called 'Whole Life' or 'Straight Life Policies.')"

In Wave 1, the follow up question asks, "How much in total are the monthly or annual premiums on [this policy/the two (largest) policies]?"

In Waves 2A and 3A, the follow up question asks, "How much (in total) do you pay in premiums on (this policy/all these policies)?"

From Wave 5 forward, the initial question asks, "(Altogether) about how much do you pay for [this policy/these policies] each month or year?" and the follow up questions asks, "[Is this a life insurance policy that builds/Are any of these life insurance policies ones that build] up a cash value that you can borrow against, or that you would receive if the policy were to be cancelled?"

Note for any whole life insurance premiums in Wave 1, only the premium for the largest two whole life insurance policies are recorded. Also note that in Waves 2H, 3H, and 4, there are no questions about whole life insurance premiums.

## HRS Variables Used

### HRS 1992:

VP6701	R16:HAVE LIFE INSURANC/ Sp-Prtnr
VP6702	R17:TERM INS POLICIES/ Sp-Prtnr
VP6705	R17C:TRM IN:\$ INS COST/ Sp-Prtnr
VP6706	R17C:TRM IN:PAY MO/YR/ Sp-Prtnr
VP6711	R18:BUILD*CASH VAL*POL/ Sp-Prtnr
VP6714	R18C:*CV1:\$ PREMIUMS/ Sp-Prtnr
VP6715	R18C:*CV1:MTHLY/ANNLY/ Sp-Prtnr
VP6716	R18C:*CV2:\$ PREMIUMS/ Sp-Prtnr
VP6717	R18C:*CV2:MTHLY/ANNLY/ Sp-Prtnr
VR6701	R16:HAVE LIFE INSURANC/ Self
VR6702	R17:TERM INS POLICIES/ Self
VR6705	R17C:TRM IN:\$ INS COST/ Self
VR6706	R17C:TRM IN:PAY MO/YR/ Self
VR6711	R18:BUILD*CASH VAL*POL/ Self
VR6714	R18C:*CV1:\$ PREMIUMS/ Self
VR6715	R18C:*CV1:MTHLY/ANNLY/ Self
VR6716	R18C:*CV2:\$ PREMIUMS/ Self
VR6717	R18C:*CV2:MTHLY/ANNLY/ Self

### AHEAD 1993:

B1884	R11. R LIFE INSURANCE: ANY
BP1884	R11 18.LIFE INSURANCE:ANY/Sp-P
BP1885	R12 19.TERM LIFE INS:ANY/Sp-P

BP1887	R12b 19b.TERM LIFE INS:POLICY COST/Sp-P
BP1888	R12c 19c.TERM LIFE INS:COST PERIOD/Sp-P
BP1893	R15 22.WHOLE LIFE INS:ANY/Sp-P
BP1895	R15b 22b.WHOLE LIFE INS:TOT PREMIUM/Sp-P
BP1896	R15c 22c.WHL LIFE INS:PREMIUM PER/Sp
BR1884	R11 18.LIFE INSURANCE:ANY/Self
BR1885	R12 19.TERM LIFE INS:ANY/Self
BR1887	R12b 19b.TERM LIFE INS:POLICY COST/Self
BR1888	R12c 19c.TERM LIFE INS:COST PERIOD/Self
BR1893	R15 22.WHOLE LIFE INS:ANY/Self
BR1895	R15b 22b.WHOLE LIFE INS:TOT PREMIUM/Self
BR1896	R15c 22c.WHL LIFE INS:PREMIUM PER/Slf
HRS 1994:	
W6764	R15.LIFE INSURANCE
W6765	R16.GROUP/INDIVIDUAL TER
W6768	R16c1.COST FOR TERM INSU
W6769	R16c2.PER
AHEAD 1995:	
D5279	R16.R LIFE INS
D5280	R16A.R TERM INS
D5284	R16C. R INS PAY\$ TERM
D5285	R16D.PER R16C
D5297	R18.R WHOLE LIFE INS
D5299	R18B.R LIFE INS PREM\$
D5300	R18C.PER R15B
HRS 1996:	
E5284	R94.HAVE ANY LIFE INSURANCE
HRS 1998:	
F6015	R94.HAVE ANY LIFE INSURANCE
HRS 2000:	
G6409	R94.HAVE ANY LIFE INSURANCE
G6419	R95.NUMBER LIFE INSURANCE POLICIES
G6429	R99.POLICIES BUILD UP CASH VALUE
G6438	R99C.AMOUNT PAY FOR PREMIUMS
G6439	R99C1.PER
HRS 2002:	
HT011	R HAVE ANY LIFE INSURANCE
HT012	NUMBER OF DIFF LIFE INS POLICIES R HAS
HT018	R HAVE WHOLE/STRAIGHT LIFE INS POLICIES
HT024	TOTAL AMT R PAY FOR LIFE INS POLICIES
HT025	TOTAL AMT R PAY FOR LIFE INS - PER
HRS 2004:	
JT011	R HAVE ANY LIFE INSURANCE
JT012	NUMBER OF DIFF LIFE INS POLICIES R HAS
JT018	R HAVE WHOLE/STRAIGHT LIFE INS POLICIES
JT024	TOTAL AMT R PAY FOR LIFE INS POLICIES
JT025	TOTAL AMT R PAY FOR LIFE INS - PER
JT026	TOTAL AMT R PAY FOR LIFE INS POLIC - MIN
JT027	TOTAL AMT R PAY FOR LIFE INS POLIC - MAX
JT028	TOTAL AMT R PAY FOR LIFE INS POLIC - RES
HRS 2006:	
KT011	R HAVE ANY LIFE INSURANCE
KT012	NUMBER OF DIFF LIFE INS POLICIES R HAS
KT018	R HAVE WHOLE/STRAIGHT LIFE INS POLICIES
KT024	TOTAL AMT R PAY FOR LIFE INS POLICIES
KT025	TOTAL AMT R PAY FOR LIFE INS - PER
KT026	TOTAL AMT R PAY FOR LIFE INS POLIC - MIN
KT027	TOTAL AMT R PAY FOR LIFE INS POLIC - MAX
KT028	TOTAL AMT R PAY FOR LIFE INS POLIC - RES

HRS 2008:  
LT011 R HAVE ANY LIFE INSURANCE  
LT012 NUMBER OF DIFF LIFE INS POLICIES R HAS  
LT018 R HAVE WHOLE/STRAIGHT LIFE INS POLICIES  
LT024 TOTAL AMT R PAY FOR LIFE INS POLICIES  
LT025 TOTAL AMT R PAY FOR LIFE INS - PER  
LT026 TOTAL AMT R PAY FOR LIFE INS POLIC - MIN  
LT027 TOTAL AMT R PAY FOR LIFE INS POLIC - MAX  
LT028 TOTAL AMT R PAY FOR LIFE INS POLIC - RES

HRS 2010:  
MT011 R HAVE ANY LIFE INSURANCE  
MT012 NUMBER OF DIFF LIFE INS POLICIES R HAS  
MT018 R HAVE WHOLE/STRAIGHT LIFE INS POLICIES  
MT024 TOTAL AMT R PAY FOR LIFE INS POLICIES  
MT025 TOTAL AMT R PAY FOR LIFE INS POLIC - PER  
MT026 TOTAL AMT R PAY FOR LIFE INS POLIC - MIN  
MT027 TOTAL AMT R PAY FOR LIFE INS POLIC - MAX  
MT028 TOTAL AMT PAY LIFE INSURANCE - RESULT

HRS 2012:  
NT011 R HAVE ANY LIFE INSURANCE  
NT012 NUMBER OF DIFF LIFE INS POLICIES R HAS  
NT018 R HAVE WHOLE/STRAIGHT LIFE INS POLICIES  
NT024 TOTAL AMT R PAY FOR LIFE INS POLICIES  
NT025 TOTAL AMT R PAY FOR LIFE INS POLIC - PER  
NT026 TOTAL AMT R PAY FOR LIFE INS POLIC - MIN  
NT027 TOTAL AMT R PAY FOR LIFE INS POLIC - MAX  
NT028 TOTAL AMT PAY LIFE INSURANCE - RESULT

HRS 2014:  
OT011 R HAVE ANY LIFE INSURANCE  
OT012 NUMBER OF DIFF LIFE INS POLICIES R HAS  
OT018 R HAVE WHOLE/STRAIGHT LIFE INS POLICIES  
OT024 TOTAL AMT R PAY FOR LIFE INS POLICIES  
OT025 TOTAL AMT R PAY FOR LIFE INS POLIC - PER  
OT026 TOTAL AMT R PAY FOR LIFE INS POLIC - MIN  
OT027 TOTAL AMT R PAY FOR LIFE INS POLIC - MAX  
OT028 TOTAL AMT PAY LIFE INSURANCE - RESULT

Tracker:  
AFINR 1992 WHETHER FINANCIAL RESPONDENT  
BFINR 1993 WHETHER FINANCIAL RESPONDENT

**Section H: Family Structure**

<b>Number of people living in the household</b>
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Wave	Variable	Label	Type
1	H1HHRES	H1HHRES:W1 Number of people in HH	Cont
2	H2HHRES	H2HHRES:W2 Number of people in HH	Cont
3	H3HHRES	H3HHRES:W3 Number of people in HH	Cont
4	H4HHRES	H4HHRES:W4 Number of people in HH	Cont
5	H5HHRES	H5HHRES:W5 Number of people in HH	Cont
6	H6HHRES	H6HHRES:W6 Number of people in HH	Cont
7	H7HHRES	H7HHRES:W7 Number of people in HH	Cont
8	H8HHRES	H8HHRES:W8 Number of people in HH	Cont
9	H9HHRES	H9HHRES:W9 Number of people in HH	Cont
10	H10HHRES	H10HHRES:W10 Number of people in HH	Cont
11	H11HHRES	H11HHRES:W11 Number of people in HH	Cont
12	H12HHRES	H12HHRES:W12 Number of people in HH	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1HHRES	12652	2.74	1.33	1.0	14.0
H2HHRES	19638	2.31	1.19	1.0	14.0
H3HHRES	17991	2.29	1.27	1.0	16.0
H4HHRES	21384	2.28	1.23	1.0	19.0
H5HHRES	19579	2.22	1.20	1.0	18.0
H6HHRES	18165	2.13	1.08	1.0	15.0
H7HHRES	20129	2.24	1.17	1.0	15.0
H8HHRES	18469	2.18	1.14	1.0	14.0
H9HHRES	17217	2.14	1.12	1.0	15.0
H10HHRES	22034	2.36	1.33	1.0	14.0
H11HHRES	20554	2.33	1.33	1.0	15.0
H12HHRES	18747	2.30	1.31	1.0	15.0

### How Constructed

HwHHRES counts the number of residents in the household, including the Respondent and spouse.

Number of residents in the household for Waves 1 and 2H are derived by counting the number of people reported in the household roster. All household residents, including the Respondent and spouse, appear as observations in the HHLIST files for these waves. They are counted in preprocessing that collapses the household roster to Respondent-level observations.

In Wave 2A, household residents are identified by the HHMEMADD flag in the other-persons file and counted by household. If a household resident is married, the spouse is considered a resident as well. If the household is missing from the other-persons file, the number in the household, not including the Respondent and spouse, is taken from a direct question.

The number of residents from Wave 3 forward can be ascertained by checking the status for each person listed on the household roster. The household roster includes household residents and non-resident children. The status variable indicates whether a person is a resident or not. In Waves 3 to 5, the status variable for spouses of people on the household roster is checked for residency as well. The status code 1 indicates residency. The temporarily away status is NOT considered an indicator of residence for this variable. From Wave 6 forward, resident spouses of household members are

listed as individuals on the household roster. From Wave 3 forward, the household roster is found in the PR\_MC module.

Anyone with a status indicating residence is counted for the household. In Wave 2A and from Wave 3 forward, if the HRS household is a single person, one is added to the count; if it is a couple, two is added to the count, so that the count includes the HRS Respondents as residents as well.

### Cross Wave Differences in Original HRS Data

Information about household members is provided at the household-level and is given by the cover sheet Respondent at each wave.

In Waves 1 and 2H, the raw HRS data provide household resident data in a separate module with one observation per household resident. Preprocessing of Wave 1 and 2H data collapses the household resident-level observations to the household-level and then assigns them to each Respondent.

In Wave 2A, the AHEAD data provide information about household residents and children in a separate other-persons file. Additionally, in Wave 2A, a direct question asks about the number of household residents; this question is answered by the first Respondent in the household, called the cover sheet Respondent in later waves.

From Wave 3 forward, the resident and non-resident children and other household residents are found in the PR\_MC module. A status variable indicates whether the individual, including a child, is a household resident or not. Household resident information is provided by the cover sheet Respondent and information about children is updated by the Family Respondent.

In Waves 1 and 2H, the Respondent and spouse are included in the household roster, along with other household members and their spouses. In Wave 2A and from Wave 3 forward, the Respondent and spouse are not included in the household roster. Also, couples among other household members appear on one observation in Waves 2A, 3, 4, and 5. In Wave 2A, marital status of residents indicates whether a spouse also resides in the household. From Wave 3 to Wave 5, a spouse status variable indicates whether the spouse is a resident. From Wave 6 forward, household members' spouses are included as individuals on the household roster as they were in 1992 and 1994.

In Wave 2A the direct question about the number of household residents that is asked of the cover sheet Respondent is:

"Other than you [and your (husband/wife/partner)], how many people are living with you?"

### HRS Variables Used

HRS 1992:	
VNHLST	HRS W1: # on HHLIST
AHEAD 1993:	
B407	D3. # OTHERS IN HH (BESIDES R AND SP)
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
HHMEMADD	HOUSEHOLD MEMBER ADDED BY STAFF
MARSTATP	MARITAL STATUS CHILD/OTHR HHM
HRS 1994:	
W8307	Moved out:Year
AHEAD 1995:	
D13	HHMEM SP STATUS
D6	HHMEM STATUS W2
DHHID	DHHID: AHD 95 Household ID (char7)
HRS 1996:	

E13	HHMEM S/P STATUS
E6	UPDATED HHMEM STATUS
EHHID	EHHID: HRS 96 Household ID (char7)
HRS 1998:	
F14	HHMEM SP STATUS
F7	HHMEM STATUS
FHHID	FHHID: HRS 98 Household ID (char7)
HRS 2000:	
G14	HHMEM SP STATUS - UPDATED
G7	HHMEM STATUS - UPDATED
GHHID	GHHID: HRS 00 Household ID (char7)
HRS 2002:	
HHHID	HHHID: HRS 02 Household ID (char7)
HX056_MC	RESIDENCY STATUS-UPDATED
HRS 2004:	
JHHID	JHHID: HRS 04 Household ID (char7)
JX056_MC	RESIDENCY STATUS-UPDATED
HRS 2006:	
KHHID	KHHID: HRS 06 Household ID (char8)
KX056_MC	RESIDENCY STATUS-UPDATED
HRS 2008:	
LHHID	LHHID: HRS 08 Household ID (char8)
LX056_MC	RESIDENCY STATUS-UPDATED
HRS 2010:	
MHHID	MHHID: HRS 10 Household ID (char8)
MX056_MC	RESIDENCY STATUS-UPDATED
HRS 2012:	
NHHID	NHHID: HRS 12 Household ID (char8)
NX056_MC	RESIDENCY STATUS-UPDATED
HRS 2014:	
OHHID	OHHID: HRS 14 Household ID (char8)
OX056_MC	RESIDENCY STATUS-UPDATED
Tracker:	
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
HHID	HOUSEHOLD IDENTIFIER



<b>Number of children</b>
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Wave	Variable	Label	Type
1	H1CHILD	H1CHILD:W1 Number of living children R/P	Cont
2	H2CHILD	H2CHILD:W2 Number of living children R/P	Cont
3	H3CHILD	H3CHILD:W3 Number of living children R/P	Cont
4	H4CHILD	H4CHILD:W4 Number of living children R/P	Cont
5	H5CHILD	H5CHILD:W5 Number of living children R/P	Cont
6	H6CHILD	H6CHILD:W6 Number of living children R/P	Cont
7	H7CHILD	H7CHILD:W7 Number of living children R/P	Cont
8	H8CHILD	H8CHILD:W8 Number of living children R/P	Cont
9	H9CHILD	H9CHILD:W9 Number of living children R/P	Cont
10	H10CHILD	H10CHILD:W10 Number of living children R/P	Cont
11	H11CHILD	H11CHILD:W11 Number of living children R/P	Cont
12	H12CHILD	H12CHILD:W12 Number of living children R/P	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1CHILD	12652	3.33	2.16	0.0	19.0
H2CHILD	19637	3.09	2.23	0.0	22.0
H3CHILD	17907	3.19	2.20	0.0	20.0
H4CHILD	21209	3.20	2.21	0.0	20.0
H5CHILD	19399	3.25	2.23	0.0	20.0
H6CHILD	17935	3.29	2.25	0.0	21.0
H7CHILD	19774	3.19	2.17	0.0	22.0
H8CHILD	18131	3.21	2.14	0.0	19.0
H9CHILD	16846	3.25	2.16	0.0	19.0
H10CHILD	21607	3.12	2.10	0.0	20.0
H11CHILD	20271	3.15	2.11	0.0	22.0
H12CHILD	18446	3.15	2.09	0.0	20.0

### How Constructed

HwCHILD provides the number of living children of the Respondent and spouse or partner.

The number of living children is summed, including anyone who is a child or step-child of the Respondent or spouse. Counts of individual children are assigned to the HwCHILD variables. All of the Respondent's and spouse's living children are counted for one total.

In Waves 1 and 2H, living children are counted from among children in the KIDS file. In Wave 2A, living children are counted from among the children in the Other-Persons file based on relationships to the male and female members of the AHEAD couple. If a household is missing any children using this method, a direct question to the Family Respondent is used.

From Wave 3 forward, living children are counted from child status variables in the household roster. The status is checked to ensure the child is alive and in contact. The relationships to both Respondents are checked for child or step-child. Living children (in contact) of either Respondent are counted. If the status of any child is unknown, HwCHILD is set to .M. If there are no children listed in PR\_MC for the household and the maximum number of children derived in prior waves is zero, then HwCHILD is set to zero.

From Wave 3 forward, there are also household-level variables that indicate the number of living, resident, and non-resident children. These may or may not agree with the count of children in the PR\_MC module. These are checked for reasonability with each other and with the number of children ever born and living at the time of interview. They are also checked for reasonability with HwCHILD derived for other waves, accounting for changes in household composition. If reasonable, these are used to fill HwCHILD when it is missing after the PR\_MC counts.

### Cross Wave Differences in Original HRS Data

In Waves 1 and 2H, the raw HRS data provide child-level data in a separate module with separate observations for each child, including in-laws. Preprocessing of Wave 1 and 2H data collapses the child-level observations to each Respondent.

In Wave 2A, the AHEAD data provide information about household residents and children in a separate other-persons file. Additionally, in Wave 2A, direct questions about the number of children are asked of the Family Respondent. The question is:

"How many (other) living children or step-children do you [or your husband/wife/partner]] have?"

From Wave 3 forward, the child data needed to derive these variables can be found in the PR\_MC module, for the appropriate wave. The PR\_MC module includes an observation for each child, regardless of whether the child is a resident or a non-resident, and all other household residents. A status variable indicates whether an individual is a resident or not and whether a child is alive and in contact. There are relationship codes for both the Family and Non-Family Respondent, from which children can be identified. Beginning in Wave 6, spouses of children appear as separate observations in the PR\_MC module, and the relationship codes change and becomes more detailed. In all these waves, there are also household level variables that indicate number of living children. These may or may not agree with the count of children in the PR\_MC module.

There have been a number of data alerts for the child data for HRS 1992 and 1994. Those posted on the HRS web site as of this writing have been applied to these data.

### HRS Variables Used

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HRS 1992:
V1201      E18A:OTHER CHILDREN :IMP
V1202      E19:CHILDREN NOT AT :IMP
V1203      E20-E32:#CHLDRN NOT :IMP
V902       E2:KIDS LIVE W/ YOU?
V903       E2A:KIDS AWAY AT SCHOOL
V905       E3-E7:SUMMARY:#CHILD HOME
VNKIDS     HRS W1: # kids

AHEAD 1993:
B435       D20. # NON-RESIDENT CHILDREN
BSUBHH     1993 SUB-HOUSEHOLD IDENTIFIER
RELATE_F   RELATIONSHIP TO FEMALE R
RELATE_M   RELATIONSHIP TO MALE R

HRS 1994:
W8003      RELATIONSHIP TO R
W8004      CHILD PROBLEM CODE
WNKIDS     HRS W2: # W2 kids

AHEAD 1995:
D10        HHMEM REL TO IDFM
D11        HHMEM REL TO IDNFM
D506       CS # RES CHILD|505U(1/20)=
```

D508	CS # NR KIDS 507U(1/20)=
D513	CS # CHILDREN 512U(1/20)=
D6	HHMEM STATUS W2
D668	A9.# CHILDREN EVER
D669	A9A.FERTILITY LIVING
DHHID	DHHID: AHD 95 Household ID (char7)
HRS 1996:	
E10	HHMEM REL TO FAMILY R
E11	HHMEN REL TO NONFAM R
E506	CS # RESIDENT CHILDREN
E508	CS # NON-RESIDENT CHILDREN
E513	CS # CHILDREN TOTAL
E6	UPDATED HHMEM STATUS
E668	A9.# CHILDREN EVER
E669	A9A.NUMBER OF LIVING CHILDREN
EHHID	EHHID: HRS 96 Household ID (char7)
HRS 1998:	
F1006	A9.# CHILDREN EVER
F1007	A9A.FERTILITY LIVING
F11	HHMEM REL TO IDFM - UPDATED
F12	HHMEM REL TO IDNFM - UPDATED
F7	HHMEM STATUS
F809	CS # RES CHILD
F811	CS # NR KIDS
FHHID	FHHID: HRS 98 Household ID (char7)
HRS 2000:	
G1093	A9.# CHILDREN EVER
G1094	A9A.FERTILITY LIVING
G11	HHMEM REL TO IDFM - UPDATED
G12	HHMEM REL TO IDNFM - UPDATED
G7	HHMEM STATUS - UPDATED
G886	CS49Y10.CS # RES CHILD
G888	CS49Y12.CS # NR KIDS
G893	CS49Y16.CS # CHILDREN
GHHID	GHHID: HRS 00 Household ID (char7)
HRS 2002:	
HA099	NUMBER OF RESIDENT CHILDREN
HA100	COUNT OF NONRESIDENT KIDS
HA101	COUNT OF KIDS - NOT THEIR SPOUSES
HB033	NUMBER CHILDREN EVER
HB034	NUMBER LIVING CHILDREN
HHHID	HHHID: HRS 02 Household ID (char7)
HX056_MC	RESIDENCY STATUS-UPDATED
HX061_MC	RELATIONSHIP TO R-UPDATED
HX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2004:	
JA099	NUMBER OF RESIDENT CHILDREN
JA100	COUNT OF NONRESIDENT KIDS
JA101	COUNT OF KIDS - NOT THEIR SPOUSES
JB033	NUMBER CHILDREN EVER
JB034	NUMBER LIVING CHILDREN
JHHID	JHHID: HRS 04 Household ID (char7)
JX056_MC	RESIDENCY STATUS-UPDATED
JX061_MC	RELATIONSHIP TO R-UPDATED
JX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2006:	
KA099	NUMBER OF RESIDENT CHILDREN
KA100	COUNT OF NONRESIDENT KIDS
KA101	COUNT OF KIDS - NOT THEIR SPOUSES

KB033	NUMBER CHILDREN EVER
KB034	NUMBER LIVING CHILDREN
KHHID	KHHID: HRS 06 Household ID (char8)
KX056_MC	RESIDENCY STATUS-UPDATED
KX061_MC	RELATIONSHIP TO R-UPDATED
KX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2008:	
LA099	NUMBER OF RESIDENT CHILDREN
LA100	COUNT OF NONRESIDENT KIDS
LA101	COUNT OF KIDS - NOT THEIR SPOUSES
LB033	NUMBER CHILDREN EVER
LB034	NUMBER LIVING CHILDREN
LHHID	LHHID: HRS 08 Household ID (char8)
LX056_MC	RESIDENCY STATUS-UPDATED
LX061_MC	RELATIONSHIP TO R-UPDATED
LX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2010:	
MA099	NUMBER OF RESIDENT CHILDREN
MA100	COUNT OF NONRESIDENT KIDS
MA101	COUNT OF KIDS - NOT THEIR SPOUSES
MB033	NUMBER CHILDREN EVER
MB034	NUMBER LIVING CHILDREN
MHHID	MHHID: HRS 10 Household ID (char8)
MX056_MC	RESIDENCY STATUS-UPDATED
MX061_MC	RELATIONSHIP TO R-UPDATED
MX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2012:	
NA099	NUMBER OF RESIDENT CHILDREN
NA100	COUNT OF NONRESIDENT KIDS
NA101	COUNT OF KIDS - NOT THEIR SPOUSES
NB033	NUMBER CHILDREN EVER
NB034	NUMBER LIVING CHILDREN
NHHID	NHHID: HRS 12 Household ID (char8)
NX056_MC	RESIDENCY STATUS-UPDATED
NX061_MC	RELATIONSHIP TO R-UPDATED
NX063_MC	RELATIONSHIP HHM TO SP - UPDATED
HRS 2014:	
OA099	NUMBER OF RESIDENT CHILDREN
OA100	COUNT OF NONRESIDENT KIDS
OA101	COUNT OF KIDS - NOT THEIR SPOUSES
OB033	NUMBER CHILDREN EVER
OB034	NUMBER LIVING CHILDREN
OHHID	OHHID: HRS 14 Household ID (char8)
OX056_MC	RESIDENCY STATUS-UPDATED
OX061_MC	RELATIONSHIP TO R-UPDATED
OX063_MC	RELATIONSHIP HHM TO SP - UPDATED
Tracker:	
BSUBHH	1993 SUB-HOUSEHOLD IDENTIFIER
CSUBHH	1994 SUB-HOUSEHOLD IDENTIFIER
HHID	HOUSEHOLD IDENTIFIER

<b>Number of living siblings</b>
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Wave	Variable	Label	Type
1	R1LIVBRO	R1LIVBRO:W1 Number of living brothers	Cont
2	R2LIVBRO	R2LIVBRO:W2 Number of living brothers	Cont
3	R3LIVBRO	R3LIVBRO:W3 Number of living brothers	Cont
4	R4LIVBRO	R4LIVBRO:W4 Number of living brothers	Cont
5	R5LIVBRO	R5LIVBRO:W5 Number of living brothers	Cont
6	R6LIVBRO	R6LIVBRO:W6 Number of living brothers	Cont
7	R7LIVBRO	R7LIVBRO:W7 Number of living brothers	Cont
8	R8LIVBRO	R8LIVBRO:W8 Number of living brothers	Cont
9	R9LIVBRO	R9LIVBRO:W9 Number of living brothers	Cont
10	R10LIVBRO	R10LIVBRO:W10 Number of living brothers	Cont
11	R11LIVBRO	R11LIVBRO:W11 Number of living brothers	Cont
12	R12LIVBRO	R12LIVBRO:W12 Number of living brothers	Cont
1	S1LIVBRO	S1LIVBRO:W1 Number of living brothers	Cont
2	S2LIVBRO	S2LIVBRO:W2 Number of living brothers	Cont
3	S3LIVBRO	S3LIVBRO:W3 Number of living brothers	Cont
4	S4LIVBRO	S4LIVBRO:W4 Number of living brothers	Cont
5	S5LIVBRO	S5LIVBRO:W5 Number of living brothers	Cont
6	S6LIVBRO	S6LIVBRO:W6 Number of living brothers	Cont
7	S7LIVBRO	S7LIVBRO:W7 Number of living brothers	Cont
8	S8LIVBRO	S8LIVBRO:W8 Number of living brothers	Cont
9	S9LIVBRO	S9LIVBRO:W9 Number of living brothers	Cont
10	S10LIVBRO	S10LIVBRO:W10 Number of living brothers	Cont
11	S11LIVBRO	S11LIVBRO:W11 Number of living brothers	Cont
12	S12LIVBRO	S12LIVBRO:W12 Number of living brothers	Cont
1	R1LIVSIS	R1LIVSIS:W1 Number of living sisters	Cont
2	R2LIVSIS	R2LIVSIS:W2 Number of living sisters	Cont
3	R3LIVSIS	R3LIVSIS:W3 Number of living sisters	Cont
4	R4LIVSIS	R4LIVSIS:W4 Number of living sisters	Cont
5	R5LIVSIS	R5LIVSIS:W5 Number of living sisters	Cont
6	R6LIVSIS	R6LIVSIS:W6 Number of living sisters	Cont
7	R7LIVSIS	R7LIVSIS:W7 Number of living sisters	Cont
8	R8LIVSIS	R8LIVSIS:W8 Number of living sisters	Cont
9	R9LIVSIS	R9LIVSIS:W9 Number of living sisters	Cont
10	R10LIVSIS	R10LIVSIS:W10 Number of living sisters	Cont
11	R11LIVSIS	R11LIVSIS:W11 Number of living sisters	Cont
12	R12LIVSIS	R12LIVSIS:W12 Number of living sisters	Cont
1	S1LIVSIS	S1LIVSIS:W1 Number of living sisters	Cont
2	S2LIVSIS	S2LIVSIS:W2 Number of living sisters	Cont
3	S3LIVSIS	S3LIVSIS:W3 Number of living sisters	Cont
4	S4LIVSIS	S4LIVSIS:W4 Number of living sisters	Cont
5	S5LIVSIS	S5LIVSIS:W5 Number of living sisters	Cont
6	S6LIVSIS	S6LIVSIS:W6 Number of living sisters	Cont
7	S7LIVSIS	S7LIVSIS:W7 Number of living sisters	Cont
8	S8LIVSIS	S8LIVSIS:W8 Number of living sisters	Cont
9	S9LIVSIS	S9LIVSIS:W9 Number of living sisters	Cont
10	S10LIVSIS	S10LIVSIS:W10 Number of living sisters	Cont
11	S11LIVSIS	S11LIVSIS:W11 Number of living sisters	Cont
12	S12LIVSIS	S12LIVSIS:W12 Number of living sisters	Cont
1	R1LIVSIB	R1LIVSIB:W1 Number of living siblings	Cont
2	R2LIVSIB	R2LIVSIB:W2 Number of living siblings	Cont
3	R3LIVSIB	R3LIVSIB:W3 Number of living siblings	Cont
4	R4LIVSIB	R4LIVSIB:W4 Number of living siblings	Cont
5	R5LIVSIB	R5LIVSIB:W5 Number of living siblings	Cont
6	R6LIVSIB	R6LIVSIB:W6 Number of living siblings	Cont
7	R7LIVSIB	R7LIVSIB:W7 Number of living siblings	Cont
8	R8LIVSIB	R8LIVSIB:W8 Number of living siblings	Cont
9	R9LIVSIB	R9LIVSIB:W9 Number of living siblings	Cont
10	R10LIVSIB	R10LIVSIB:W10 Number of living siblings	Cont
11	R11LIVSIB	R11LIVSIB:W11 Number of living siblings	Cont
12	R12LIVSIB	R12LIVSIB:W12 Number of living siblings	Cont
1	S1LIVSIB	S1LIVSIB:W1 Number of living siblings	Cont

2	S2LIVSIB	S2LIVSIB:W2	Number of living siblings	Cont
3	S3LIVSIB	S3LIVSIB:W3	Number of living siblings	Cont
4	S4LIVSIB	S4LIVSIB:W4	Number of living siblings	Cont
5	S5LIVSIB	S5LIVSIB:W5	Number of living siblings	Cont
6	S6LIVSIB	S6LIVSIB:W6	Number of living siblings	Cont
7	S7LIVSIB	S7LIVSIB:W7	Number of living siblings	Cont
8	S8LIVSIB	S8LIVSIB:W8	Number of living siblings	Cont
9	S9LIVSIB	S9LIVSIB:W9	Number of living siblings	Cont
10	S10LIVSIB	S10LIVSIB:W10	Number of living siblings	Cont
11	S11LIVSIB	S11LIVSIB:W11	Number of living siblings	Cont
12	S12LIVSIB	S12LIVSIB:W12	Number of living siblings	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIVBRO	11941	1.45	1.49	0.0	13.0
R2LIVBRO	19247	1.21	1.39	0.0	12.0
R3LIVBRO	17949	1.19	1.38	0.0	13.0
R4LIVBRO	21202	1.19	1.39	0.0	14.0
R5LIVBRO	19521	1.20	1.39	0.0	12.0
R6LIVBRO	18136	1.19	1.39	0.0	14.0
R7LIVBRO	20108	1.25	1.41	0.0	12.0
R8LIVBRO	18464	1.22	1.41	0.0	14.0
R9LIVBRO	17211	1.23	1.41	0.0	14.0
R10LIVBRO	22006	1.45	1.53	0.0	14.0
R11LIVBRO	20539	1.47	1.54	0.0	14.0
R12LIVBRO	18217	1.49	1.56	0.0	14.0
S1LIVBRO	9361	1.43	1.48	0.0	13.0
S2LIVBRO	13003	1.27	1.39	0.0	12.0
S3LIVBRO	12237	1.26	1.40	0.0	11.0
S4LIVBRO	14242	1.23	1.40	0.0	13.0
S5LIVBRO	12967	1.27	1.40	0.0	12.0
S6LIVBRO	11787	1.26	1.41	0.0	14.0
S7LIVBRO	13238	1.30	1.42	0.0	12.0
S8LIVBRO	11939	1.28	1.42	0.0	14.0
S9LIVBRO	10885	1.28	1.42	0.0	12.0
S10LIVBRO	13958	1.44	1.51	0.0	14.0
S11LIVBRO	12831	1.47	1.53	0.0	14.0
S12LIVBRO	11244	1.45	1.55	0.0	14.0
R1LIVSIS	11941	1.58	1.60	0.0	11.0
R2LIVSIS	19234	1.42	1.51	0.0	11.0
R3LIVSIS	17946	1.39	1.49	0.0	11.0
R4LIVSIS	21152	1.38	1.49	0.0	14.0
R5LIVSIS	19523	1.39	1.48	0.0	14.0
R6LIVSIS	18131	1.38	1.50	0.0	14.0
R7LIVSIS	20109	1.42	1.52	0.0	12.0
R8LIVSIS	18465	1.40	1.51	0.0	15.0
R9LIVSIS	17213	1.41	1.52	0.0	15.0
R10LIVSIS	22004	1.61	1.63	0.0	15.0
R11LIVSIS	20540	1.63	1.64	0.0	15.0
R12LIVSIS	18232	1.65	1.66	0.0	15.0
S1LIVSIS	9361	1.56	1.59	0.0	11.0
S2LIVSIS	13010	1.46	1.51	0.0	11.0
S3LIVSIS	12225	1.43	1.51	0.0	11.0

S4LIVSIS	14176	1.39	1.51	0.0	14.0
S5LIVSIS	12970	1.42	1.50	0.0	11.0
S6LIVSIS	11794	1.42	1.52	0.0	14.0
S7LIVSIS	13239	1.43	1.52	0.0	12.0
S8LIVSIS	11947	1.43	1.51	0.0	14.0
S9LIVSIS	10885	1.42	1.53	0.0	15.0
S10LIVSIS	13954	1.58	1.61	0.0	15.0
S11LIVSIS	12826	1.61	1.62	0.0	15.0
S12LIVSIS	11245	1.57	1.63	0.0	15.0
R1LIVSIB	11940	3.02	2.51	0.0	19.0
R2LIVSIB	19193	2.63	2.37	0.0	17.0
R3LIVSIB	17935	2.58	2.35	0.0	17.0
R4LIVSIB	21111	2.58	2.36	0.0	23.0
R5LIVSIB	19504	2.59	2.35	0.0	20.0
R6LIVSIB	18115	2.57	2.37	0.0	21.0
R7LIVSIB	20103	2.67	2.40	0.0	18.0
R8LIVSIB	18463	2.62	2.39	0.0	20.0
R9LIVSIB	17210	2.64	2.40	0.0	20.0
R10LIVSIB	22001	3.05	2.59	0.0	21.0
R11LIVSIB	20536	3.10	2.60	0.0	21.0
R12LIVSIB	18120	3.15	2.64	0.0	21.0
S1LIVSIB	9360	2.99	2.49	0.0	19.0
S2LIVSIB	12935	2.73	2.37	0.0	17.0
S3LIVSIB	12219	2.69	2.37	0.0	17.0
S4LIVSIB	14118	2.64	2.37	0.0	18.0
S5LIVSIB	12953	2.69	2.35	0.0	20.0
S6LIVSIB	11780	2.68	2.38	0.0	21.0
S7LIVSIB	13224	2.73	2.39	0.0	18.0
S8LIVSIB	11928	2.71	2.37	0.0	19.0
S9LIVSIB	10869	2.70	2.40	0.0	20.0
S10LIVSIB	13938	3.02	2.57	0.0	20.0
S11LIVSIB	12802	3.08	2.59	0.0	20.0
S12LIVSIB	11186	3.03	2.63	0.0	20.0

## How Constructed

RwLIVBRO and RwLIVSIS count the number of the Respondent's living brothers and sisters, respectively. RwLIVSIB is the number of the Respondent's living siblings, or the sum of RwLIVBRO and RwLIVSIS. SwLIVBRO, SwLIVSIS, and SwLIVSIB are the number of the spouse's brothers, sisters, and siblings, respectively.

In Waves 1, 2H, and from 3H forward, the number of living sisters and brothers are counted by checking status and relationship codes at each wave. In Waves 2A and 3A, these counts are taken from direct questions. One's own siblings are counted and assigned to RwLIVSIS and RwLIVBRO, and siblings-in-law are counted and assigned to SwLIVSIS and SwLIVBRO. RwLIVSIB is the sum of RwLIVSIS and RwLIVBRO, and SwLIVSIB is the sum of SwLIVSIS and SwLIVBRO.

In Wave 1, there is also a question about total number of siblings that is used to fill RwLIVSIB and SwLIVSIB directly. If these are missing, the counts are used when available.

In Waves 1, 2H, 3H, 4 and 5, these data are provided by the Family Respondent. The relationship codes or variables are appropriately swapped before counting if the Respondent is not the Family Respondent. From Wave 6 forward,

information on individual siblings is collected from individual Respondents.

In Waves 2A and 3A, individual Respondents are asked how many living sisters and brothers they have. In Wave 3A, Respondents are also asked how many of these sisters or brothers are step-siblings. These step-siblings are subtracted from the total number of living siblings to be compatible with other waves where step-siblings are specifically omitted.

If both parents are deceased, sibling data are not always collected unless parents were alive in a prior wave. In Wave 3H and from Wave 4 forward, if both parents are deceased, a question asks for the number of living brothers and sisters. In some cases, both a count from the sibling roster and the direct answer to this question are available and are not always the same. These derived variables use the answer to the direct question if it is available, and the number counted from the roster if it is not. Before Wave 6, the direct question is asked of the Family Respondent. From Wave 6 forward, the direct question is asked of individuals; for these waves the spouse's responses are used to provide the direct question information for siblings-in-law.

Because so many values are missing when only one wave is used, the counts are carried forward and back to help fill missing values in other waves. This filling is done for sisters and brothers separately. Counts of zero are carried forward to fill missing values in later waves, where questions may have been skipped based on no report of living siblings at a previous wave. Any non-missing count (including zero) is carried backward to fill missing values at prior waves. This may undercount living siblings, as there may have been more living at a prior wave, but it should at least give an approximation better than no value at all. When carrying back sibling counts for in-laws, checks are done to ensure that the spouse is the same spouse as in the source year.

The total number of siblings in `RwLIVSIB` and `SwLIVSIB` is calculated from the sister and brother counts after this filling is done. If either `RwLIVSIS` or `RwLIVBRO` is missing then `RwLIVSIB` is missing.

### **Cross Wave Differences in Original HRS Data**

Information about siblings is reported in the Family Section for each wave before Wave 6. In couple households, the designated Family Respondent answers most questions about siblings, including in-laws. In Waves 2A, 3A, and from Wave 6 forward, each individual in a couple household is asked about siblings.

In Waves 1 and 2H, the raw HRS data provide sibling data in a separate module for each with separate observations for each sibling, including in-laws. Preprocessing of Wave 1 and 2H data collapses the sibling-level observations to each Respondent. When necessary, the process takes into account whether the Respondent is the Family Respondent. In Wave 2H, a status code for each sibling is provided that indicates if the sibling has died or should not have been on the list.

In Waves 2A and 3A, the AHEAD data provide information about siblings among Respondent-level data. In Wave 2A, the questions about numbers of living sisters and brothers does not include text specifically omitting step-siblings or relationship codes that distinguish between full-/half- and step-siblings. In Wave 3A, follow-up questions ask if any of the living brothers and sisters are step-siblings.

In Waves 3H, 4, and 5, the sibling data needed to derive these variables can be found in the household-level Family Section, and in the `PR_SB` module, which has one observation for each sibling-household combination. In these waves, a direct question about living siblings is asked of the Family Respondent.

From Wave 6 forward, sibling information is asked of all individuals. The `PR_SB` has one observation for each Respondent-sibling combination. A direct question asks about living siblings in these waves, which is also asked of all individuals. In Wave 7, the `PR_MC` module did not include the Respondent ID, so these siblings are matched to Respondents by sub-household ID (`JHHID`) and Family Respondent status (`JFAMR`).



On PR\_MC modules, relationship codes indicate if the sibling is a sister or brother, own or in-law.

There have been a number of data alerts for the sibling data. Those posted on the HRS web site as of this writing have been applied to these data.

## HRS Variables Used

```

HRS 1992:
V1701          E68:R LIVNG SIBLINGS:IMP
V1702          E69-E80:#BROS OR SIS:IMP
V2201          E111:H/P LIVING SIB :IMP
V2202          E112-E115:#HUSB/PRTN:IMP
V8101          SIBS:SIB OF R OR H/P?
V8104          SIBS:SEX              :IMP

AHEAD 1993:
B559           D58. # SISTERS LIVING
B562           D59. # BROTHERS LIVING
BPHHIDPN       AHD W1: Spouse HHIDPN

HRS 1994:
SIBCODE        Sibling or sibling-in-law flag
W8101          E76/176. Relationship to R/Sp
W8103          Sibling problem code

AHEAD 1995:
D1601          D81.# SISTERS
D1604          D81C.STEPSISTER
D1605          D81D.STEPSISTERS
D1607          D82.# BROTHERS
D1610          D82D.STEPBROTHER
D1611          D82D.STEPBROTHERS
DPHHIDPN       AHD95 Spouse HHIDPN

HRS 1996:
E159           SIB REL TO R
E159A          SIB OR SIB-IN-LAW
E93            UPDATED SIB STATUS
EHHID          EHHID: HRS 96 Household ID (char7)
EPHHIDPN       HRS W3: Spouse HHIDPN
ER1627_1       D81.# SISTERS/Self
ER1627_2       D81.# SISTERS-IN-LAW/Self
ER1631_1       D82.# BROTHERS/Self
ER1631_2       D82.# BROTHERS-IN-LAW/Self

HRS 1998:
F137           SIB STATUS
F141           SIB REL TO FAMILY R - UPDATED
F1972          D130A.# SISTERS
F1975          D130D.# BROTHERS
F2134          D130A-2.# SISTERS-IN-LAW
F2137          D130D-2.# BROTHERS-IN-LAW
F597           SAME SPOUSE AS LAST WAVE
FHHID          FHHID: HRS 98 Household ID (char7)
FPN_FAM        1998 FAMILY RESP PERSON NUMBER
FPN_NFAM        1998 NON-FAMILY RESP PERSON NUMBER

HRS 2000:
G137           SIB STATUS - UPDATED
G141           SIB REL TO FAMILY R - UPDATED
G2198          D130A.# SISTERS
G2201          D130D.# BROTHERS
G2385          D130A-2.# SISTERS-IN-LAW

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G2388	D130D-2.# BROTHERS-IN-LAW
G658	CS15Y63.SAME SPOUSE AS LAST WAVE
GHHID	GHHID: HRS 00 Household ID (char7)
GPN_FAM	2000 FAMILY RESP PERSON NUMBER
GPN_NFAM	2000 NON-FAMILY RESP PERSON NUMBER
HRS 2002:	
HF073	NUMBER LIVING SISTERS
HF076	NUMBER LIVING BROTHERS
HPHHIDPN	HRS 02: HHIDPN of spouse/partner
HX056_SB	RESIDENCY STATUS - SIBLING-UPDATED
HX061_SB	RELATIONSHIP TO R - SIBLING-UPDATED
HX063_SB	RELATIONSHIP SIB TO SP - UPDATED
HRS 2004:	
JF073	NUMBER LIVING SISTERS
JF076	NUMBER LIVING BROTHERS
JFAMR	2004 WHETHER FAMILY RESPONDENT
JHHID	JHHID: HRS 04 Household ID (char7)
JPHHIDPN	HRS 04: HHIDPN of spouse/partner
JX056_SB	RESIDENCY STATUS - SIBLING-UPDATED
JX061_SB	RELATIONSHIP TO R - SIBLING-UPDATED
JX063_SB	RELATIONSHIP SIB TO SP - UPDATED
HRS 2006:	
KF073	NUMBER LIVING SISTERS
KF076	NUMBER LIVING BROTHERS
KPHHIDPN	HRS 06: HHIDPN of spouse/partner
KX056_SB	RESIDENCY STATUS - SIBLING-UPDATED
KX061_SB	RELATIONSHIP TO R - SIBLING-UPDATED
KX063_SB	RELATIONSHIP SIB TO SP - UPDATED
HRS 2008:	
LF073	NUMBER LIVING SISTERS
LF076	NUMBER LIVING BROTHERS
LPHHIDPN	HRS 06: HHIDPN of spouse/partner
LX056_SB	RESIDENCY STATUS - SIBLING-UPDATED
LX061_SB	RELATIONSHIP TO R - SIBLING-UPDATED
LX063_SB	RELATIONSHIP SIB TO SP - UPDATED
HRS 2010:	
MF073	NUMBER LIVING SISTERS
MF076	NUMBER LIVING BROTHERS
MPHHIDPN	HRS 10: HHIDPN of spouse/partner
MZ249	RESIDENCY STATUS - SIBLING
MZ251	RELATIONSHIP TO R
HRS 2012:	
NF073	NUMBER LIVING SISTERS
NF076	NUMBER LIVING BROTHERS
NPHHIDPN	HRS 12: HHIDPN of spouse/partner
NZ249	RESIDENCY STATUS - SIBLING
NZ251	RELATIONSHIP TO R
HRS 2014:	
OF073	NUMBER LIVING SISTERS
OF076	NUMBER LIVING BROTHERS
OPHHIDPN	HRS 14: HHIDPN of spouse/partner
OZ249	RESIDENCY STATUS - SIBLING
OZ251	RELATIONSHIP TO R
Tracker:	
AFAMR	1992 WHETHER FAMILY RESPONDENT
CFAMR	1994 WHETHER FAMILY RESPONDENT
EFAMR	1996 WHETHER FAMILY RESPONDENT
FFAMR	1998 WHETHER FAMILY RESPONDENT
GFAMR	2000 WHETHER FAMILY RESPONDENT

HFAMR	2002	WHETHER	FAMILY	RESPONDENT
JFAMR	2004	WHETHER	FAMILY	RESPONDENT
KFAMR	2006	WHETHER	FAMILY	RESPONDENT
LFAMR	2008	WHETHER	FAMILY	RESPONDENT
MFAMR	2010	WHETHER	FAMILY	RESPONDENT
NFAMR	2012	WHETHER	FAMILY	RESPONDENT
OFAMR	2014	WHETHER	FAMILY	RESPONDENT

<b>Number of children ever born</b>
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Wave	Variable	Label	Type
1	RAEVBRN	RAEVBRN: Number of Children Ever Born	Cont
1	S1EVBRN	S1EVBRN: Number of Children Ever Born	Cont
2	S2EVBRN	S2EVBRN: Number of Children Ever Born	Cont
3	S3EVBRN	S3EVBRN: Number of Children Ever Born	Cont
4	S4EVBRN	S4EVBRN: Number of Children Ever Born	Cont
5	S5EVBRN	S5EVBRN: Number of Children Ever Born	Cont
6	S6EVBRN	S6EVBRN: Number of Children Ever Born	Cont
7	S7EVBRN	S7EVBRN: Number of Children Ever Born	Cont
8	S8EVBRN	S8EVBRN: Number of Children Ever Born	Cont
9	S9EVBRN	S9EVBRN: Number of Children Ever Born	Cont
10	S10EVBRN	S10EVBRN: Number of Children Ever Born	Cont
11	S11EVBRN	S11EVBRN: Number of Children Ever Born	Cont
12	S12EVBRN	S12EVBRN: Number of Children Ever Born	Cont
1	RAEVBRNF	RAEVBRNF: Flag when R responds in 1993 and 1995	Categ
1	S1EVBRNF	S1EVBRNF: Flag when S responds in 1993 and 1995	Categ
2	S2EVBRNF	S2EVBRNF: Flag when S responds in 1993 and 1995	Categ
3	S3EVBRNF	S3EVBRNF: Flag when S responds in 1993 and 1995	Categ
4	S4EVBRNF	S4EVBRNF: Flag when S responds in 1993 and 1995	Categ
5	S5EVBRNF	S5EVBRNF: Flag when S responds in 1993 and 1995	Categ
6	S6EVBRNF	S6EVBRNF: Flag when S responds in 1993 and 1995	Categ
7	S7EVBRNF	S7EVBRNF: Flag when S responds in 1993 and 1995	Categ
8	S8EVBRNF	S8EVBRNF: Flag when S responds in 1993 and 1995	Categ
9	S9EVBRNF	S9EVBRNF: Flag when S responds in 1993 and 1995	Categ
10	S10EVBRNF	S10EVBRNF: Flag when S responds in 1993 and 1995	Categ
11	S11EVBRNF	S11EVBRNF: Flag when S responds in 1993 and 1995	Categ
12	S12EVBRNF	S12EVBRNF: Flag when S responds in 1993 and 1995	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAEVBRN	36015	2.71	2.07	0.0	35.0
S1EVBRN	9133	3.04	2.00	0.0	35.0
S2EVBRN	12933	2.94	2.05	0.0	35.0
S3EVBRN	12121	2.93	2.00	0.0	20.0
S4EVBRN	14242	2.89	1.96	0.0	20.0
S5EVBRN	12859	2.91	1.94	0.0	20.0
S6EVBRN	11697	2.91	1.93	0.0	20.0
S7EVBRN	13165	2.80	1.86	0.0	20.0
S8EVBRN	11906	2.77	1.82	0.0	20.0
S9EVBRN	10876	2.75	1.81	0.0	20.0
S10EVBRN	13891	2.64	1.77	0.0	20.0
S11EVBRN	12810	2.63	1.77	0.0	20.0
S12EVBRN	11362	2.60	1.74	0.0	20.0
RAEVBRNF	19252	0.40	0.59	0.0	3.0
S1EVBRNF	8733	0.01	0.14	0.0	3.0
S2EVBRNF	12638	0.33	0.55	0.0	3.0
S3EVBRNF	11930	0.33	0.55	0.0	3.0
S4EVBRNF	10366	0.28	0.52	0.0	3.0
S5EVBRNF	9134	0.25	0.49	0.0	3.0
S6EVBRNF	8069	0.20	0.46	0.0	3.0

S7EVRNF	7242	0.17	0.41	0.0	3.0
S8EVRNF	6370	0.13	0.37	0.0	3.0
S9EVRNF	5661	0.11	0.34	0.0	3.0
S10EVRNF	4838	0.07	0.29	0.0	3.0
S11EVRNF	4236	0.05	0.25	0.0	3.0
S12EVRNF	3482	0.04	0.20	0.0	3.0

## Categorical Variable Codes

Value	RAEVRNF
.S=No children reported in	16763
0.One Response	12304
1.Children reported in 1993	6373
2.More children reported in	336
3.More children reported in	239

Value	S1EVRNF	S2EVRNF	S3EVRNF	S4EVRNF	S5EVRNF	S6EVRNF	S7EVRNF
.M=Missing	1002	491	6	89	81	79	46
.S=No children reported in	400	295	191	3876	3725	3628	5923
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	144	248	206	184	101	83	141
0.One Response	8640	8828	8389	7678	7078	6555	6118
1.Children reported in 1993	77	3534	3287	2512	1927	1422	1061
2.More children reported in	10	156	141	99	70	47	36
3.More children reported in	6	120	113	77	59	45	27

Value	S8EVRNF	S9EVRNF	S10EVRNF	S11EVRNF	S12EVRNF
.M=Missing	34	13	17	19	17
.S=No children reported in	5536	5215	9053	8574	7880
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	112	122	327	251	241
0.One Response	5580	5113	4522	4038	3368
1.Children reported in 1993	747	514	296	186	109
2.More children reported in	25	18	8	5	1
3.More children reported in	18	16	12	7	4

## Format Reference Tables – complete variable value labels

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Variables: EVBRNF

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.M=Missing  
 .S=No children reported in 1993 or 1995  
 .U=Unmarried  
 .V=Spouse NR  
 0.One Response  
 1.Children reported in 1993=1995  
 2.More children reported in 1993  
 3.More children reported in 1995

### How Constructed

RAEVBRN provides the number of children ever born to the Respondent. Number of children ever born is usually only asked once and does not include step-children, adoptions or miscarriages. Some Respondents were asked this question in both AHEAD 1993 and AHEAD 1995. For these cases we use the response in AHEAD 1995 because the question wording is the same as subsequent waves.

In AHEAD 1993 the question is "How many children have you ever had? Please don't count adopted or step-children for this question." From AHEAD 1995 on, the question is "How many children have (you fathered/you given birth to)? Please don't count miscarriages or still-births, or adopted or step-children for this question."

RAEVBRNF is a flag that identifies the Respondents that were asked this question in both AHEAD 1993 and AHEAD 1995. If RAEVBRNF = 0 then the Respondent answered in either 1993 or 1995, but not both. If RAEVBRNF = 1 then the number of children the Respondent reports in AHEAD 1993 matches the number of children s/he reports in AHEAD 1995. If RAEVBRNF = 2 then the Respondent reported having more children in AHEAD 1993. If RAEVBRNF = 3 then the Respondent reported having more children in AHEAD 1995. And finally, if RAEVBRNF = .S then the Respondent was not in either the AHEAD 1993 or AHEAD 1995 waves.

The spouse variables SwEVBRN and SwEVBRNF are taken from the Wave "w" spouse's RAEVBRN and RAEVBRNF variables.

### Cross Wave Differences in Original HRS Data

This question is not asked in Wave 1 or 2H. In Wave 2A, the question asks "How many children have you ever had? Please don't count adopted or step-children for this question."

From Wave 3A and 3H on, the question asks "How many children have (you fathered/you given birth to)? Please don't count miscarriages or still-births, or adopted or step-children for this question."

For those that are asked this question in both Wave 2A and Wave 3A, we use the answer given in Wave 3A because the question wording is the same as subsequent waves.

### HRS Variables Used

AHEAD 1993:	
B145	A9. # CHILDREN EVER HAD
AHEAD 1995:	
D668	A9.# CHILDREN EVER
HRS 1996:	
E668	A9.# CHILDREN EVER
HRS 1998:	

F1006	A9.# CHILDREN EVER
HRS 2000:	
G1093	A9.# CHILDREN EVER
HRS 2002:	
HB033	NUMBER CHILDREN EVER
HRS 2004:	
JB033	NUMBER CHILDREN EVER
HRS 2006:	
KB033	NUMBER CHILDREN EVER
HRS 2008:	
LB033	NUMBER CHILDREN EVER
HRS 2010:	
MB033	NUMBER CHILDREN EVER
HRS 2012:	
NB033	NUMBER CHILDREN EVER
HRS 2014:	
OB033	NUMBER CHILDREN EVER

## **Section I: Retirement Plans, Expectations**



<b>Whether retired: Consider self retired</b>
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Wave	Variable	Label	Type
1	R1SAYRET	R1SAYRET:W1 R considers self retired	Categ
2	R2SAYRET	R2SAYRET:W2 R considers self retired	Categ
3	R3SAYRET	R3SAYRET:W3 R considers self retired	Categ
4	R4SAYRET	R4SAYRET:W4 R considers self retired	Categ
5	R5SAYRET	R5SAYRET:W5 R considers self retired	Categ
6	R6SAYRET	R6SAYRET:W6 R considers self retired	Categ
7	R7SAYRET	R7SAYRET:W7 R considers self retired	Categ
8	R8SAYRET	R8SAYRET:W8 R considers self retired	Categ
9	R9SAYRET	R9SAYRET:W9 R considers self retired	Categ
10	R10SAYRET	R10SAYRET:W10 R considers self retired	Categ
11	R11SAYRET	R11SAYRET:W11 R considers self retired	Categ
12	R12SAYRET	R12SAYRET:W12 R considers self retired	Categ
1	S1SAYRET	S1SAYRET:W1 S considers self retired	Categ
2	S2SAYRET	S2SAYRET:W2 S considers self retired	Categ
3	S3SAYRET	S3SAYRET:W3 S considers self retired	Categ
4	S4SAYRET	S4SAYRET:W4 S considers self retired	Categ
5	S5SAYRET	S5SAYRET:W5 S considers self retired	Categ
6	S6SAYRET	S6SAYRET:W6 S considers self retired	Categ
7	S7SAYRET	S7SAYRET:W7 S considers self retired	Categ
8	S8SAYRET	S8SAYRET:W8 S considers self retired	Categ
9	S9SAYRET	S9SAYRET:W9 S considers self retired	Categ
10	S10SAYRET	S10SAYRET:W10 S considers self retired	Categ
11	S11SAYRET	S11SAYRET:W11 S considers self retired	Categ
12	S12SAYRET	S12SAYRET:W12 S considers self retired	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SAYRET	12019	0.60	1.00	0.0	3.0
R2SAYRET	10672	0.64	0.95	0.0	3.0
R3SAYRET	13402	0.96	1.02	0.0	3.0
R4SAYRET	20720	1.26	1.14	0.0	3.0
R5SAYRET	18557	1.24	1.09	0.0	3.0
R6SAYRET	15888	1.18	1.02	0.0	3.0
R7SAYRET	19219	1.03	0.96	0.0	3.0
R8SAYRET	17916	1.07	0.94	0.0	3.0
R9SAYRET	16742	1.07	0.91	0.0	3.0
R10SAYRET	21216	0.83	0.82	0.0	3.0
R11SAYRET	20042	0.84	0.79	0.0	3.0
R12SAYRET	18270	0.85	0.73	0.0	3.0
S1SAYRET	9297	0.60	1.00	0.0	3.0
S2SAYRET	8068	0.62	0.93	0.0	3.0
S3SAYRET	9762	0.95	1.01	0.0	3.0
S4SAYRET	13384	1.18	1.13	0.0	3.0
S5SAYRET	12123	1.17	1.08	0.0	3.0
S6SAYRET	10196	1.13	1.02	0.0	3.0
S7SAYRET	12184	0.97	0.95	0.0	3.0
S8SAYRET	11251	1.00	0.93	0.0	3.0
S9SAYRET	10263	1.02	0.91	0.0	3.0
S10SAYRET	12895	0.78	0.83	0.0	3.0
S11SAYRET	12095	0.79	0.80	0.0	3.0
S12SAYRET	10667	0.80	0.76	0.0	3.0

## Categorical Variable Codes

Value	R1SAYRET	R2SAYRET	R3SAYRET	R4SAYRET	R5SAYRET	R6SAYRET	R7SAYRET
.A=may be completely retire			3213				
.D=DK		6	5	8	14	17	22
.M=Oth missing		15	53	38	153	219	13
.Q=Not asked this wv		8222					
.R=RF		2	3	8	6	5	11
.S=Skip, proxy IW	633	725	1315	610	849	2036	864
0.Not retired	8142	6593	5509	6527	5362	4344	6138
1.Completely retired	1804	2215	4599	7292	7375	7049	8654
2.Partly retired	813	1024	1597	1887	1797	1708	2052
3.Question irrelevant	1260	840	1697	5014	4023	2787	2375

Value	R8SAYRET	R9SAYRET	R10SAYRET	R11SAYRET	R12SAYRET
.D=DK	25	13	42	75	67
.M=Oth missing	10	12	216	36	37
.R=RF	2	4	25	11	15
.S=Skip, proxy IW	516	446	535	390	358
0.Not retired	5103	4444	8220	7242	6067
1.Completely retired	8712	8501	9478	9554	9409
2.Partly retired	1905	1897	2476	2435	2321
3.Question irrelevant	2196	1900	1042	811	473

Value	S1SAYRET	S2SAYRET	S3SAYRET	S4SAYRET	S5SAYRET	S6SAYRET	S7SAYRET
.A=may be completely retire			1307				
.D=DK		3	3	5	11	8	14
.M=Oth missing		2	14	4	25	73	2
.Q=Not asked this wv		4549					
.R=RF		1		1	2	3	7
.S=Skip, proxy IW	603	665	829	584	569	1359	765
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.Not retired	6254	5009	4089	4743	3913	3135	4378
1.Completely retired	1427	1690	3285	4410	4608	4248	5083
2.Partly retired	671	790	1196	1366	1284	1209	1435
3.Question irrelevant	945	579	1192	2865	2318	1604	1288

Value	S8SAYRET	S9SAYRET	S10SAYRET	S11SAYRET	S12SAYRET
.D=DK	10	5	22	46	33
.M=Oth missing	2	3	128	7	12
.R=RF	1		12	1	9
.S=Skip, proxy IW	471	375	456	339	306
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not retired	3695	3153	5536	4950	4094
1.Completely retired	5083	4803	5215	5203	4912
2.Partly retired	1286	1290	1569	1486	1400
3.Question irrelevant	1187	1017	575	456	261

## How Constructed

There are at least 2 places in every wave where Respondent could report being retired. See also "Whether retired, Retired employment status" (RwRETEMP).

RwSAYRET is derived from the question: At this time do you consider yourself to be completely retired, partly retired, or not retired at all? RwSAYRET recodes this variable to 0 for not retired, 1 for completely retired, 2 for partly retired, 3 for irrelevant, and for missing values. For proxy interviews, it is set to SAS special missing code .S to indicate that the question was skipped.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwsAYRET.

In Wave 2A, there are no questions that ask the Respondent whether s/he considers herself/himself retired. If the Wave 2A interview is by proxy, R2sAYRET is set to .S; otherwise it is set to .Q to indicate that no information was collected for AHEAD Respondents in this wave.

See also Labor Force Status (RwLBRF, RwLBRFH, and RwLBRFY) under Employment.

## Cross Wave Differences in Original HRS Data

The question in all waves is "At this time do you consider yourself completely retired, partly retired, or not retired at all?" In Wave 1, this question is asked in the Section K: Retirement expectations. From Wave 2H forward it is asked in the Employment section, just after questions on retirement plans ("Do you plan to stop working or reduce work hours at a particular date or age, have you not given it much thought, or what?") if Respondent is working, and after questions about the search for work if Respondent is unemployed.

One of the coded answers for this question is "Irrelevant". In Wave 1, and in Wave 2H for the self-employed and unemployed, "irrelevant" is defined as "doesn't work for pay or is homemaker; hasn't worked for 10 or more years." In Wave 2H for those employed but not self-employed, and in Waves 3H and 4, it is defined as "doesn't work for pay or is homemaker; hasn't worked for 1 or more years." From Wave 5 on it is defined just as "doesn't work for pay or is homemaker." These differences may influence the number of Respondents for whom "irrelevant" was coded.

In Wave 2A, this question is not asked at all. In Wave 3A the question is asked in the Employment section, and many cases skip the entire section because they do not work now and have not for the past 2 years. These cases are coded as .A (may be completely retired). There is no definition for the irrelevant code.

## HRS Variables Used

HRS 1992:	
V4901	K1:RETRD:PART,ALL,OR:IMP
HRS 1994:	
W3983	FA123.CONSIDER SELF RETI
W4638	FB83.RETIREMENT
W5022	FC41.RETIREMENT
AHEAD 1995:	
D3130	GA123.RETIREMENT
D3489	GB83.RETIREMENT
D3711	GC41.RETIREMENT
HRS 1996:	
E3039	G134.CONSIDER SELF RETIRED
HRS 1998:	
F3570	G134.CONSIDER SELF RETIRED
HRS 2000:	
G3859	G134.CONSIDER SELF RETIRED
G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HJ578	CONSIDER SELF RETIRED
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JJ578	CONSIDER SELF RETIRED

HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KJ578	CONSIDER SELF RETIRED
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LJ578	CONSIDER SELF RETIRED
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MJ578	CONSIDER SELF RETIRED
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NJ578	CONSIDER SELF RETIRED
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OJ578	CONSIDER SELF RETIRED

<b>Whether retired: Retirement Month and Year, If Says Retired</b>
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Wave	Variable	Label	Type
1	R1RETMON	R1RETMON:W1 Month Retired if say retired	Cont
2	R2RETMON	R2RETMON:W2 Month Retired if say retired	Cont
3	R3RETMON	R3RETMON:W3 Month Retired if say retired	Cont
4	R4RETMON	R4RETMON:W4 Month Retired if say retired	Cont
5	R5RETMON	R5RETMON:W5 Month Retired if say retired	Cont
6	R6RETMON	R6RETMON:W6 Month Retired if say retired	Cont
7	R7RETMON	R7RETMON:W7 Month Retired if say retired	Cont
8	R8RETMON	R8RETMON:W8 Month Retired if say retired	Cont
9	R9RETMON	R9RETMON:W9 Month Retired if say retired	Cont
10	R10RETMON	R10RETMON:W10 Month Retired if say retired	Cont
11	R11RETMON	R11RETMON:W11 Month Retired if say retired	Cont
12	R12RETMON	R12RETMON:W12 Month Retired if say retired	Cont
1	S1RETMON	S1RETMON:W1 Month Retired if say retired	Cont
2	S2RETMON	S2RETMON:W2 Month Retired if say retired	Cont
3	S3RETMON	S3RETMON:W3 Month Retired if say retired	Cont
4	S4RETMON	S4RETMON:W4 Month Retired if say retired	Cont
5	S5RETMON	S5RETMON:W5 Month Retired if say retired	Cont
6	S6RETMON	S6RETMON:W6 Month Retired if say retired	Cont
7	S7RETMON	S7RETMON:W7 Month Retired if say retired	Cont
8	S8RETMON	S8RETMON:W8 Month Retired if say retired	Cont
9	S9RETMON	S9RETMON:W9 Month Retired if say retired	Cont
10	S10RETMON	S10RETMON:W10 Month Retired if say retired	Cont
11	S11RETMON	S11RETMON:W11 Month Retired if say retired	Cont
12	S12RETMON	S12RETMON:W12 Month Retired if say retired	Cont
1	R1RETYR	R1RETYR:W1 Year Retired if say retired	Cont
2	R2RETYR	R2RETYR:W2 Year Retired if say retired	Cont
3	R3RETYR	R3RETYR:W3 Year Retired if say retired	Cont
4	R4RETYR	R4RETYR:W4 Year Retired if say retired	Cont
5	R5RETYR	R5RETYR:W5 Year Retired if say retired	Cont
6	R6RETYR	R6RETYR:W6 Year Retired if say retired	Cont
7	R7RETYR	R7RETYR:W7 Year Retired if say retired	Cont
8	R8RETYR	R8RETYR:W8 Year Retired if say retired	Cont
9	R9RETYR	R9RETYR:W9 Year Retired if say retired	Cont
10	R10RETYR	R10RETYR:W10 Year Retired if say retired	Cont
11	R11RETYR	R11RETYR:W11 Year Retired if say retired	Cont
12	R12RETYR	R12RETYR:W12 Year Retired if say retired	Cont
1	S1RETYR	S1RETYR:W1 Year Retired if say retired	Cont
2	S2RETYR	S2RETYR:W2 Year Retired if say retired	Cont
3	S3RETYR	S3RETYR:W3 Year Retired if say retired	Cont
4	S4RETYR	S4RETYR:W4 Year Retired if say retired	Cont
5	S5RETYR	S5RETYR:W5 Year Retired if say retired	Cont
6	S6RETYR	S6RETYR:W6 Year Retired if say retired	Cont
7	S7RETYR	S7RETYR:W7 Year Retired if say retired	Cont
8	S8RETYR	S8RETYR:W8 Year Retired if say retired	Cont
9	S9RETYR	S9RETYR:W9 Year Retired if say retired	Cont
10	S10RETYR	S10RETYR:W10 Year Retired if say retired	Cont
11	S11RETYR	S11RETYR:W11 Year Retired if say retired	Cont
12	S12RETYR	S12RETYR:W12 Year Retired if say retired	Cont
1	R1RETDTWV	R1RETDTWV:W1 Wave retirement date reported	Cont
2	R2RETDTWV	R2RETDTWV:W2 Wave retirement date reported	Cont
3	R3RETDTWV	R3RETDTWV:W3 Wave retirement date reported	Cont
4	R4RETDTWV	R4RETDTWV:W4 Wave retirement date reported	Cont
5	R5RETDTWV	R5RETDTWV:W5 Wave retirement date reported	Cont
6	R6RETDTWV	R6RETDTWV:W6 Wave retirement date reported	Cont
7	R7RETDTWV	R7RETDTWV:W7 Wave retirement date reported	Cont
8	R8RETDTWV	R8RETDTWV:W8 Wave retirement date reported	Cont
9	R9RETDTWV	R9RETDTWV:W9 Wave retirement date reported	Cont
10	R10RETDTWV	R10RETDTWV:W10 Wave retirement date reported	Cont
11	R11RETDTWV	R11RETDTWV:W11 Wave retirement date reported	Cont
12	R12RETDTWV	R12RETDTWV:W12 Wave retirement date reported	Cont
1	S1RETDTWV	S1RETDTWV:W1 Wave retirement date reported	Cont

2	S2RETDTWV	S2RETDTWV:W2 Wave retirement date reported	Cont
3	S3RETDTWV	S3RETDTWV:W3 Wave retirement date reported	Cont
4	S4RETDTWV	S4RETDTWV:W4 Wave retirement date reported	Cont
5	S5RETDTWV	S5RETDTWV:W5 Wave retirement date reported	Cont
6	S6RETDTWV	S6RETDTWV:W6 Wave retirement date reported	Cont
7	S7RETDTWV	S7RETDTWV:W7 Wave retirement date reported	Cont
8	S8RETDTWV	S8RETDTWV:W8 Wave retirement date reported	Cont
9	S9RETDTWV	S9RETDTWV:W9 Wave retirement date reported	Cont
10	S10RETDTWV	S10RETDTWV:W10 Wave retirement date reported	Cont
11	S11RETDTWV	S11RETDTWV:W11 Wave retirement date reported	Cont
12	S12RETDTWV	S12RETDTWV:W12 Wave retirement date reported	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETMON	2282	6.42	3.37	1.0	12.0
R2RETMON	3673	6.14	3.52	1.0	12.0
R3RETMON	4159	6.15	3.52	1.0	12.0
R4RETMON	7509	5.90	3.52	1.0	12.0
R5RETMON	7816	5.79	3.53	1.0	12.0
R6RETMON	7516	5.99	3.45	1.0	12.0
R7RETMON	9107	6.04	3.48	1.0	12.0
R8RETMON	9109	6.11	3.45	1.0	12.0
R9RETMON	9019	6.13	3.44	1.0	12.0
R10RETMON	10548	6.17	3.42	1.0	12.0
R11RETMON	10613	6.23	3.41	1.0	12.0
R12RETMON	10509	6.26	3.42	1.0	12.0
S1RETMON	1865	6.44	3.36	1.0	12.0
S2RETMON	2714	6.17	3.48	1.0	12.0
S3RETMON	3145	6.17	3.48	1.0	12.0
S4RETMON	4844	6.06	3.51	1.0	12.0
S5RETMON	5160	5.88	3.54	1.0	12.0
S6RETMON	4861	6.03	3.45	1.0	12.0
S7RETMON	5768	6.11	3.47	1.0	12.0
S8RETMON	5651	6.17	3.46	1.0	12.0
S9RETMON	5455	6.16	3.46	1.0	12.0
S10RETMON	6147	6.18	3.46	1.0	12.0
S11RETMON	6050	6.23	3.43	1.0	12.0
S12RETMON	5764	6.24	3.46	1.0	12.0
R1RETYR	2596	1986.68	5.85	1945.0	1993.0
R2RETYR	8256	1982.30	10.15	1920.0	1994.0
R3RETYR	8573	1984.25	9.81	1920.0	1996.0
R4RETYR	8914	1987.13	9.35	1932.0	1998.0
R5RETYR	8958	1988.98	9.14	1932.0	2000.0
R6RETYR	8573	1991.06	9.19	1933.0	2003.0
R7RETYR	10478	1992.01	9.70	1925.0	2004.0
R8RETYR	10408	1993.59	9.96	1929.0	2007.0
R9RETYR	10208	1994.96	10.21	1934.0	2008.0
R10RETYR	11649	1997.40	10.36	1935.0	2011.0
R11RETYR	11671	1999.05	10.45	1935.0	2013.0
R12RETYR	11396	2000.89	10.56	1935.0	2014.0
S1RETYR	2086	1986.86	5.69	1950.0	1993.0
S2RETYR	5263	1983.67	9.37	1927.0	1994.0
S3RETYR	5498	1985.75	8.97	1927.0	1996.0

S4RETYR	5686	1988.42	8.32	1935.0	1998.0
S5RETYR	5789	1990.26	8.06	1936.0	2000.0
S6RETYR	5388	1992.26	8.16	1943.0	2003.0
S7RETYR	6423	1993.49	8.47	1943.0	2004.0
S8RETYR	6284	1994.97	8.84	1941.0	2007.0
S9RETYR	6011	1996.42	9.03	1941.0	2008.0
S10RETYR	6648	1998.77	9.25	1941.0	2011.0
S11RETYR	6561	2000.41	9.33	1948.0	2013.0
S12RETYR	6159	2002.33	9.48	1946.0	2014.0
R1RETDWV	2596	1.00	0.02	1.0	2.0
R2RETDWV	8270	2.74	0.88	1.0	12.0
R3RETDWV	8585	2.78	0.43	1.0	3.0
R4RETDWV	9031	3.47	0.72	1.0	4.0
R5RETDWV	9063	4.01	0.98	1.0	5.0
R6RETDWV	8678	4.64	1.29	1.0	6.0
R7RETDWV	10563	5.12	1.59	1.0	7.0
R8RETDWV	10490	5.67	1.88	1.0	8.0
R9RETDWV	10276	6.21	2.20	1.0	9.0
R10RETDWV	11762	7.22	2.56	1.0	12.0
R11RETDWV	11794	7.91	2.80	1.0	12.0
R12RETDWV	11549	8.67	3.03	1.0	12.0
S1RETDWV	2086	1.00	0.02	1.0	2.0
S2RETDWV	5271	2.66	0.92	1.0	12.0
S3RETDWV	5504	2.73	0.45	1.0	3.0
S4RETDWV	5725	3.40	0.75	1.0	4.0
S5RETDWV	5848	3.98	1.02	1.0	5.0
S6RETDWV	5423	4.63	1.33	1.0	6.0
S7RETDWV	6461	5.16	1.62	1.0	7.0
S8RETDWV	6319	5.76	1.90	1.0	8.0
S9RETDWV	6045	6.34	2.22	1.0	9.0
S10RETDWV	6697	7.35	2.55	1.0	12.0
S11RETDWV	6602	8.07	2.77	1.0	12.0
S12RETDWV	6232	8.93	2.97	1.0	12.0

## How Constructed

Retirement month and year are derived only for Respondents who say they are completely or partially retired, i.e., where `RwSAYRET` is 1 or 2.

The source of retirement month and year varies across waves. In Wave 1 it is taken from the questions about retirement month and year that immediately follow an answer of considering oneself completely or partially retired. In Wave 2H, the variables for these direct retirement month and year questions are asked separately for Respondents working for a firm, self-employed, or not working. These are all examined for a non-missing retirement month and year. If retirement month and year are not available from these sources, and the Respondent reported a retired employment status then the retirement month and year given in conjunction with employment status is used.

From Wave 3H forward, a branchpoint variable indicates what the source of retirement month should be: from a previous wave, from the retired employment status month, or from the direct question. The variable derivation uses the indicated source for `RwRETMON` and `RwRETYR`.

Note that a few additional retirement months and years that are missing in `RwRETMON` and `RwRETYR` could be

filled in all waves. In Wave 1, the retirement month from that given with a retired employment status could be used to fill missing values. In Wave 2H, the Wave 1 report could be carried forward, if the Respondent said s/he was retired in Wave 1. In Wave 3H, the retired employment status month could be used if the previous wave report is missing, and vice versa. One could look back to earlier waves as well.

In Wave 2A, there are no questions that ask the Respondent whether s/he considers herself/himself retired. To assign codes for retired the information from subsequent waves is used. If in a subsequent wave the Respondent reports being retired, the date of retirement is compared with interview date. If the interview date is after the date of retirement, R2RETMON and R2RETYR are set to the subsequent date. If R2RETMON and R2RETYR are not filled in this way, they are set to .Q to indicate that the information is not available.

The value of RwRETDTWV indicates which wave the retirement date was reported.

If Respondent says "not retired" or question is not relevant then we assign SAS special missing code .N for "not applicable." For proxy interviews, values are set to .S to indicate question was skipped.

The spouse variables are taken from the Wave "w" spouse's self-report, i.e., from the spouse's RwRETMON and RwRETYR.

### Cross Wave Differences in Original HRS Data

In each wave there are two possible sources for retirement month, which correspond to the two places where a Respondent can report being retired. One is the retirement month and year given if the Respondent reports being retired when asked for employment status (RwRETEMP=1). The second can be asked only if the Respondent says that s/he is completely or partially retired (RwSAYRET=1 or 2).

In all waves, if the Respondent reports being retired when asked for employment status (RwRETEMP=1), a question asks "In what month and year did you retire?"

In Wave 1, a question asks "In what month and year did you (partly/completely) retire?" of everyone who reported being completely or partially retired (R1SAYRET=1 or 2). In Wave 2H, the question is asked only if the Respondent did not give a retired employment status, that is, if R2SAYRET is 1 or 2 and R2RETEMP is not 1. From Wave 3H forward, the group asked this question is further limited to those who did not report being completely or partially retired in a previous wave. A branchpoint variable indicates whether the source of the retirement month should be taken from the previous wave, the employment status retirement month, or the question asked in the current interview.

In Wave 2H, the series of questions on whether the Respondent considers himself/herself retired and the subsequent inquiry on retirement month are asked in three different places, depending on whether the Respondent is working for a firm, self-employed, or not working.

In Wave 2A, the questions were not asked. In Wave 3A, the question "What month did you retire?" is only asked if Respondent retired less than 2 years ago.

### HRS Variables Used

HRS 1992:	
V4901	K1:RETRD:PART, ALL, OR:IMP
V4902	K1A:DATE RETIRED:MONTH
V4903	K1A:DATE RETIRED:YEAR



HRS 1994:  
     W3314           FA1h.RETIRED-MONTH  
     W3315           FA1h.RETIRED-YEAR  
     W3983           FA123.CONSIDER SELF RETI  
     W3984           FA123a.RETIRED-MONTH  
     W3985           FA123a.RETIRED-YEAR  
     W4638           FB83.RETIREMENT  
     W4639           FB83a.MONTH OF RETIREMEN  
     W4640           FB83a.YEAR OF RETIREMENT  
     W5022           FC41.RETIREMENT  
     W5023           FC41a.RETIRE MONTH.  
     W5024           FC41a.RETIRE YEAR.  
 AHEAD 1995:  
     D2643           GA1J.YEAR RETIRED  
     D2644           GA1J.MONTH RETIRED  
     D3130           GA123.RETIREMENT  
     D3131           GA123A.RETIRE-MONTH  
     D3132           GA123B.RETIRE 2 YR AGO?-YEAR.  
 HRS 1996:  
     E2622           G1H.RETIRED-MONTH  
     E2623           G1J.RETIRED-YEAR  
     E3039           G134.CONSIDER SELF RETIRED  
     E3040           G134A\_.BRANCHPOINT  
     E3041           G134A.RETIRED-MONTH  
     E3042           G134A.RETIRED-YEAR  
 HRS 1998:  
     F3126           G1H.RETIRED-MONTH  
     F3127           G1J.RETIRED-YEAR  
     F3570           G134.CONSIDER SELF RETIRED  
     F3571           G134A BRANCHPOINT  
     F3572           G134A.RETIRED-MONTH  
     F3573           G134A.RETIRED-YEAR  
 HRS 2000:  
     G3376           G1H.RETIRED-MONTH  
     G3377           G1J.RETIRED-YEAR  
     G3859           G134.CONSIDER SELF RETIRED  
     G3860           G134Y1.G134A BRANCHPOINT  
     G3861           G134A.RETIRED-MONTH  
     G3862           G134Y1A.RETIRED-YEAR  
 HRS 2002:  
     HJ017           RETIRED-MO  
     HJ018           RETIRED-YR  
     HJ578           CONSIDER SELF RETIRED  
     HJ579           J579 BRANCHPOINT  
     HJ580           MO-RETIRED  
     HJ581           YR-RETIRED  
 HRS 2004:  
     JJ017           RETIRED-MO  
     JJ018           RETIRED-YR  
     JJ578           CONSIDER SELF RETIRED  
     JJ579           J579 BRANCHPOINT  
     JJ580           MO-RETIRED  
     JJ581           YR-RETIRED  
 HRS 2006:  
     KJ017           RETIRED-MO  
     KJ018           RETIRED-YR  
     KJ578           CONSIDER SELF RETIRED  
     KJ579           J579 BRANCHPOINT  
     KJ580           MO-RETIRED

KJ581	YR-RETIRED
HRS 2008:	
LJ017	RETIRED-MO
LJ018	RETIRED-YR
LJ578	CONSIDER SELF RETIRED
LJ579	BRANCHPOINT FOR J579
LJ580	MO-RETIRED
LJ581	YR-RETIRED
HRS 2010:	
MJ017	RETIRED-MO
MJ018	RETIRED-YR
MJ578	CONSIDER SELF RETIRED
MJ579	BRANCHPOINT FOR J579
MJ580	MO-RETIRED
MJ581	YR-RETIRED
HRS 2012:	
NJ017	RETIRED-MO
NJ018	RETIRED-YR
NJ578	CONSIDER SELF RETIRED
NJ579	BRANCHPOINT FOR J579
NJ580	MO-RETIRED
NJ581	YR-RETIRED
HRS 2014:	
OJ017	RETIRED-MO
OJ018	RETIRED-YR
OJ578	CONSIDER SELF RETIRED
OJ579	BRANCHPOINT FOR J579
OJ580	MO-RETIRED
OJ581	YR-RETIRED

<b>Planned retirement year</b>
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Wave	Variable	Label	Type
1	R1RPLNYR	R1RPLNYR:W1 When R plans to stop work	Cont
2	R2RPLNYR	R2RPLNYR:W2 When R plans to stop work	Cont
3	R3RPLNYR	R3RPLNYR:W3 When R plans to stop work	Cont
4	R4RPLNYR	R4RPLNYR:W4 When R plans to stop work	Cont
5	R5RPLNYR	R5RPLNYR:W5 When R plans to stop work	Cont
6	R6RPLNYR	R6RPLNYR:W6 When R plans to stop work	Cont
7	R7RPLNYR	R7RPLNYR:W7 When R plans to stop work	Cont
8	R8RPLNYR	R8RPLNYR:W8 When R plans to stop work	Cont
9	R9RPLNYR	R9RPLNYR:W9 When R plans to stop work	Cont
10	R10RPLNYR	R10RPLNYR:W10 When R plans to stop work	Cont
11	R11RPLNYR	R11RPLNYR:W11 When R plans to stop work	Cont
12	R12RPLNYR	R12RPLNYR:W12 When R plans to stop work	Cont
1	S1RPLNYR	S1RPLNYR:W1 When S plans to stop work	Cont
2	S2RPLNYR	S2RPLNYR:W2 When S plans to stop work	Cont
3	S3RPLNYR	S3RPLNYR:W3 When S plans to stop work	Cont
4	S4RPLNYR	S4RPLNYR:W4 When S plans to stop work	Cont
5	S5RPLNYR	S5RPLNYR:W5 When S plans to stop work	Cont
6	S6RPLNYR	S6RPLNYR:W6 When S plans to stop work	Cont
7	S7RPLNYR	S7RPLNYR:W7 When S plans to stop work	Cont
8	S8RPLNYR	S8RPLNYR:W8 When S plans to stop work	Cont
9	S9RPLNYR	S9RPLNYR:W9 When S plans to stop work	Cont
10	S10RPLNYR	S10RPLNYR:W10 When S plans to stop work	Cont
11	S11RPLNYR	S11RPLNYR:W11 When S plans to stop work	Cont
12	S12RPLNYR	S12RPLNYR:W12 When S plans to stop work	Cont
1	R1RPLNYA	R1RPLNYA:W1 When R thinks will stop work	Cont
3	R3RPLNYA	R3RPLNYA:W3 When R thinks will stop work	Cont
4	R4RPLNYA	R4RPLNYA:W4 When R thinks will stop work	Cont
5	R5RPLNYA	R5RPLNYA:W5 When R thinks will stop work	Cont
6	R6RPLNYA	R6RPLNYA:W6 When R thinks will stop work	Cont
7	R7RPLNYA	R7RPLNYA:W7 When R thinks will stop work	Cont
8	R8RPLNYA	R8RPLNYA:W8 When R thinks will stop work	Cont
9	R9RPLNYA	R9RPLNYA:W9 When R thinks will stop work	Cont
10	R10RPLNYA	R10RPLNYA:W10 When R thinks will stop work	Cont
11	R11RPLNYA	R11RPLNYA:W11 When R thinks will stop work	Cont
12	R12RPLNYA	R12RPLNYA:W12 When R thinks will stop work	Cont
1	S1RPLNYA	S1RPLNYA:W1 When S thinks will stop work	Cont
3	S3RPLNYA	S3RPLNYA:W3 When S thinks will stop work	Cont
4	S4RPLNYA	S4RPLNYA:W4 When S thinks will stop work	Cont
5	S5RPLNYA	S5RPLNYA:W5 When S thinks will stop work	Cont
6	S6RPLNYA	S6RPLNYA:W6 When S thinks will stop work	Cont
7	S7RPLNYA	S7RPLNYA:W7 When S thinks will stop work	Cont
8	S8RPLNYA	S8RPLNYA:W8 When S thinks will stop work	Cont
9	S9RPLNYA	S9RPLNYA:W9 When S thinks will stop work	Cont
10	S10RPLNYA	S10RPLNYA:W10 When S thinks will stop work	Cont
11	S11RPLNYA	S11RPLNYA:W11 When S thinks will stop work	Cont
12	S12RPLNYA	S12RPLNYA:W12 When S thinks will stop work	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RPLNYR	1668	1998.37	4.57	1992.0	2049.0
R2RPLNYR	1628	1999.36	4.14	1994.0	2025.0
R3RPLNYR	1485	2000.46	3.98	1995.0	2026.0
R4RPLNYR	1588	2002.68	4.23	1998.0	2030.0
R5RPLNYR	1263	2004.02	4.19	2000.0	2032.0
R6RPLNYR	971	2006.05	3.90	2002.0	2034.0

R7RPLNYR	1232	2009.51	4.86	2004.0	2040.0
R8RPLNYR	1097	2010.97	4.82	2006.0	2044.0
R9RPLNYR	977	2012.48	4.15	2008.0	2034.0
R10RPLNYR	1370	2016.38	5.28	2010.0	2047.0
R11RPLNYR	1310	2017.83	4.77	2012.0	2046.0
R12RPLNYR	1233	2019.20	4.54	2014.0	2044.0
S1RPLNYR	1353	1998.45	4.73	1992.0	2049.0
S2RPLNYR	1285	1999.46	4.27	1994.0	2025.0
S3RPLNYR	1151	2000.48	4.05	1995.0	2026.0
S4RPLNYR	1186	2002.77	4.39	1998.0	2030.0
S5RPLNYR	958	2004.13	4.33	2000.0	2032.0
S6RPLNYR	731	2006.13	3.85	2002.0	2026.0
S7RPLNYR	904	2009.64	4.92	2004.0	2040.0
S8RPLNYR	813	2011.11	4.89	2006.0	2044.0
S9RPLNYR	710	2012.53	4.21	2008.0	2034.0
S10RPLNYR	952	2016.72	5.55	2010.0	2047.0
S11RPLNYR	934	2017.89	4.86	2012.0	2044.0
S12RPLNYR	850	2019.49	4.64	2014.0	2041.0
R1RPLNYA	6315	2000.60	5.51	1992.0	2049.0
R3RPLNYA	3089	2002.53	5.47	1995.0	2039.0
R4RPLNYA	3520	2004.91	5.83	1998.0	2041.0
R5RPLNYA	2886	2006.36	5.75	2000.0	2057.0
R6RPLNYA	2367	2008.26	5.74	2002.0	2048.0
R7RPLNYA	3229	2012.16	6.35	2004.0	2046.0
R8RPLNYA	2771	2013.51	6.17	2006.0	2047.0
R9RPLNYA	2508	2014.65	5.51	2008.0	2048.0
R10RPLNYA	4331	2019.37	6.65	2010.0	2057.0
R11RPLNYA	3989	2020.50	6.23	2012.0	2062.0
R12RPLNYA	3555	2021.73	6.10	2014.0	2070.0
S1RPLNYA	4932	2000.76	5.74	1992.0	2049.0
S3RPLNYA	2345	2002.56	5.52	1995.0	2039.0
S4RPLNYA	2641	2005.09	5.96	1998.0	2041.0
S5RPLNYA	2177	2006.56	5.87	2000.0	2046.0
S6RPLNYA	1736	2008.41	5.84	2002.0	2048.0
S7RPLNYA	2374	2012.32	6.49	2004.0	2046.0
S8RPLNYA	2068	2013.79	6.35	2006.0	2047.0
S9RPLNYA	1837	2014.78	5.58	2008.0	2048.0
S10RPLNYA	3004	2019.72	6.90	2010.0	2057.0
S11RPLNYA	2770	2020.71	6.36	2012.0	2062.0
S12RPLNYA	2450	2021.96	6.12	2014.0	2070.0

## How Constructed

There are 2 planned retirement year variables. RwRPLNYR is derived from the variable which asks Respondent about retirement plans. If Respondent plans to stop work altogether then s/he is asked when, which is assigned to RwRPLNYR. Most cases are missing this variable.

RwRPLNYA is an alternate variable which combines RwRPLNYR with a question which asks when Respondent thinks s/he will stop work or retire. In Wave 1 this question follows a question on whether Respondent considers her/himself completely retired, and asks when Respondent thinks s/he will retire completely. From Wave 3H forward, if Respondent responds to the retirement plans question that s/he hasn't given it much thought or has no plans, s/he is asked: "When do

you think you will stop working?." The year given in response to this is assigned to RWRPLNYA. If Respondent did not respond in this way but did respond that s/he plans to stop work altogether, then RWRPLNYR is assigned to RWRPLNYA. RWRPLNYA also has many missing values, but fewer than RWRPLNYR.

The alternate question used to derive RWRPLNYA is not asked in Wave 2A or 2H, so R2RPLNYA is missing.

The years for both RWRPLNYR and RWRPLNYA can be given by age or specific year. In Wave 1 only age is given for when Respondent plans to stop work altogether and only year for when Respondent thinks s/he will retire. In other waves, both age and year are in the data. If the year is given by age, then year is assigned as Respondent's birth year plus the age given.

If it is a proxy interview, these questions are not asked, and RWRPLNYR and RWRPLNYA are set to SAS special missing code .S for "skipped because proxy."

If Respondent is not working then the questions about retirement plans are not asked, except for the "when do you think you will retire completely." If the questions are skipped because Respondent is not working, RWRPLNYR and RWRPLNYA are assigned SAS special missing code .W for "not working."

Respondent can respond "Never" to the "when" questions. If Respondent says "Never" or has no plan to stop work, RWRPLNYR is set to .N. If Respondent says "Never" or was not asked the "when do you think you will stop work" question in Waves 3H forward, RWRPLNYA is set to .N.

In Wave 1 if Respondent is completely retired, then the "when do you think you will retire completely" question is not asked, and R1RPLNYA is set to .A for "already retired."

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RWRPLNYR and RWRPLNYA.

In Wave 2A, the data needed to derive R2RPLNYR are not collected. R2RPLNYR is set to .Q to indicate that this information is not available for AHEAD Respondents in this wave.

## Cross Wave Differences in Original HRS Data

The variable of interest is the year the Respondent plans to stop working. In the employment section, the Respondent is asked about retirement plans. The question wording is almost the same across all waves. In all waves the question is preceded by a question about the usual retirement age for people the Respondent works with or with the same kind of job. It is prefaced by: "Now I have a few questions about work and retirement." Then the question is:

"Are you currently planning to stop working altogether or work fewer hours at a particular date or age, to change the kind of work you do when you reach a particular age, have you not given it much thought, or what?"

In Wave 2H, the question is:

"Are you currently planning to stop working altogether or work fewer hours at a particular date or age, have you not given it much thought, or what?"

In Wave 3A and 3H, the question is:

"Now I want to ask about your retirement plans. Do you plan to stop working altogether or work fewer hours at a particular date or age, have you not given it much thought, or what?"

In Waves 4 forward, the question is:

"Now I want to ask about your retirement plans. Do you plan to stop working altogether or reduce work hours at a particular date or age, have you not given it much thought, or what?"

In all waves multiple answers may be given: "stop work altogether," "never stop work," "haven't given it much thought," "no current plans-continue as is," "work fewer hours," "change kind of work," "work for myself," and "other." In Wave 3H another choice is added: "work until my health fails."

If Respondent plans to stop work altogether, Respondent is asked "At what age do you plan to stop working?" The questionnaire allows an age or year to be given. In Wave 1 the variable in the data is an age, but in subsequent waves either an age or year is in the data. Because multiple answers, including indefinite ones, are allowed, many cases are missing a retirement year.

Beginning in Wave 3A, if Respondent hasn't given it much thought or has no current plans, the survey asks: "At what age do you think you will stop working?" In the retirement expectations section of Wave 1 a question follows one on whether Respondent considers her/himself completely retired, and asks when Respondent thinks s/he will retire completely. In Wave 2A there are no retirement questions asked and in 2H there is no question asking Respondent when s/he thinks s/he will stop working or retire.

For AHEAD Respondents in Wave 2A, the information for R2RPLNYR is not available.

## HRS Variables Used

HRS 1992:	
V3338	F91:STP WRK ALL TOGETHER
V3346	F91A:AGE TO STOP WRKING
V5001	K13:DATE/YR/AGE WILL:IMP
HRS 1994:	
W3967	FA122.PLANS FOR RETIREME
W3968	FA122.PLANS FOR RETIREME
W3969	FA122.PLANS FOR RETIREME
W3970	FA122.PLANS FOR RETIREME
W3975	FA122a.PLAN TO STOP WORK
W4622	FB82.RETIREMENT PLANS
W4623	FB82.RETIREMENT PLANS
W4624	FB82.RETIREMENT PLANS
W4630	FB82a.AGE EXPECT STOP WO
AHEAD 1995:	
D3121M1	GA122. RETIREMENT PLANS
D3121M2	GA122. RETIREMENT PLANS
D3122	GA122A. AGE STOP WORKING
D3123	GA122A1. YEAR STOP WORKING
D3480M1	GB82. RETIREMENT PLANS
D3480M2	GB82. RETIREMENT PLANS
D3480M3	GB82. RETIREMENT PLANS
HRS 1996:	
E3028M1	G133.PLANS FOR RETIREMENT
E3028M2	G133.PLANS FOR RETIREMENT
E3028M3	G133.PLANS FOR RETIREMENT
E3028M4	G133.PLANS FOR RETIREMENT
E3029	G133A.PLAN TO STOP WORKING-AGE
E3030	G133A1.PLAN TO STOP WORKING-YEAR

E3031	G133B.THINK STOP WORKING-AGE
E3032	G133B1.THINK STOP WORKING-YEAR
HRS 1998:	
F3559M1	G133.PLANS FOR RETIREMENT
F3559M2	G133.PLANS FOR RETIREMENT
F3559M3	G133.PLANS FOR RETIREMENT
F3559M4	G133.PLANS FOR RETIREMENT
F3559M5	G133.PLANS FOR RETIREMENT
F3559M6	G133.PLANS FOR RETIREMENT
F3560	G133A.PLAN TO STOP WORKING-AGE
F3561	G133A1.PLAN TO STOP WORKING-YEAR
F3562	G133B.THINK STOP WORKING-AGE
F3563	G133B1.THINK STOP WORKING-YEAR
HRS 2000:	
G3848M1	G133.PLANS FOR RETIREMENT
G3848M2	G133.PLANS FOR RETIREMENT
G3848M3	G133.PLANS FOR RETIREMENT
G3848M4	G133.PLANS FOR RETIREMENT
G3849	G133A.PLAN TO STOP WORKING-AGE
G3850	G133A1.PLAN TO STOP WORKING-YEAR
G3851	G133B.THINK STOP WORKING-AGE
G3852	G133B1.THINK STOP WORKING-YEAR
HRS 2002:	
HJ566M1	PLANS FOR RETIREMENT- 1
HJ566M2	PLANS FOR RETIREMENT- 2
HJ566M3	PLANS FOR RETIREMENT- 3
HJ566M4	PLANS FOR RETIREMENT- 4
HJ566M5	PLANS FOR RETIREMENT- 5
HJ566M6	PLANS FOR RETIREMENT- 6
HJ566M7	PLANS FOR RETIREMENT- 7
HJ568	PLAN TO STOP WORKING-AGE
HJ569	PLAN TO STOP WORKING-YR
HJ570	THINK STOP WORKING-AGE
HJ571	THINK STOP WORKING-YR
HRS 2004:	
JJ566M1	PLANS FOR RETIREMENT- 1
JJ566M2	PLANS FOR RETIREMENT- 2
JJ566M3	PLANS FOR RETIREMENT- 3
JJ566M4	PLANS FOR RETIREMENT- 4
JJ566M5	PLANS FOR RETIREMENT- 5
JJ566M6	PLANS FOR RETIREMENT- 6
JJ566M7	PLANS FOR RETIREMENT- 7
JJ568	PLAN TO STOP WORKING-AGE
JJ569	PLAN TO STOP WORKING-YR
JJ570	THINK STOP WORKING-AGE
JJ571	THINK STOP WORKING-YR
HRS 2006:	
KJ566M1	PLANS FOR RETIREMENT- 1
KJ566M2	PLANS FOR RETIREMENT- 2
KJ566M3	PLANS FOR RETIREMENT- 3
KJ566M4	PLANS FOR RETIREMENT- 4
KJ566M5	PLANS FOR RETIREMENT- 5
KJ568	PLAN TO STOP WORKING-AGE
KJ569	PLAN TO STOP WORKING-YR
KJ570	THINK STOP WORKING-AGE
KJ571	THINK STOP WORKING-YR
HRS 2008:	
LJ566M1	PLANS FOR RETIREMENT- 1
LJ566M2	PLANS FOR RETIREMENT- 2

LJ566M3	PLANS FOR RETIREMENT- 3
LJ566M4	PLANS FOR RETIREMENT- 4
LJ566M5	PLANS FOR RETIREMENT- 5
LJ568	PLAN TO STOP WORKING-AGE
LJ569	PLAN TO STOP WORKING-YR
LJ570	THINK STOP WORKING-AGE
LJ571	THINK STOP WORKING-YR
HRS 2010:	
MJ566M1	PLANS FOR RETIREMENT- 1
MJ566M2	PLANS FOR RETIREMENT- 2
MJ566M3	PLANS FOR RETIREMENT- 3
MJ566M4	PLANS FOR RETIREMENT- 4
MJ566M5	PLANS FOR RETIREMENT- 5
MJ568	PLAN TO STOP WORKING-AGE
MJ569	PLAN TO STOP WORKING-YR
MJ570	THINK STOP WORKING-AGE
MJ571	THINK STOP WORKING-YR
HRS 2012:	
NJ566M1	PLANS FOR RETIREMENT- 1
NJ566M2	PLANS FOR RETIREMENT- 2
NJ566M3	PLANS FOR RETIREMENT- 3
NJ566M4	PLANS FOR RETIREMENT- 4
NJ566M5	PLANS FOR RETIREMENT- 5
NJ568	PLAN TO STOP WORKING-AGE
NJ569	PLAN TO STOP WORKING-YR
NJ570	THINK STOP WORKING-AGE
NJ571	THINK STOP WORKING-YR
HRS 2014:	
OJ566M1	PLANS FOR RETIREMENT- 1
OJ566M2	PLANS FOR RETIREMENT- 2
OJ566M3	PLANS FOR RETIREMENT- 3
OJ566M4	PLANS FOR RETIREMENT- 4
OJ568	PLAN TO STOP WORKING-AGE
OJ569	PLAN TO STOP WORKING-YR
OJ570	THINK STOP WORKING-AGE
OJ571	THINK STOP WORKING-YR



### Expects spouse to retire at the same time

Wave	Variable	Label	Type
1	R1RETWSP	R1RETWSP:W1 R Expect-SP retire same time	Categ
1	S1RETWSP	S1RETWSP:W1 S Expect-SP retire same time	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETWSP	4802	0.87	0.74	0.0	2.0
S1RETWSP	4618	0.87	0.74	0.0	2.0

### Categorical Variable Codes

Value	R1RETWSP
.A=Already retired	1467
.D=DK	131
.I=Retirement not relevant	1077
.M=Oth missing	210
.N=No retirement plans	1985
.S=Skip,proxy IW	611
.U=Unmarried	2369
0.No	1672
1.Yes	2081
2.Sp not working	1049

Value	S1RETWSP
.A=Already retired	1427
.D=DK	122
.I=Retirement not relevant	1029
.M=Oth missing	188
.N=No retirement plans	1906
.S=Skip,proxy IW	610
.U=Unmarried	2373
.V=Spouse NR	379
0.No	1614
1.Yes	1997
2.Sp not working	1007

### How Constructed

The question is in the retirement expectations section and asks:

"Do you expect your spouse to retire at about the same time that you do?"

R1RETWSP is simply a recode of the HRS Wave 1 variable. The possible answers are yes, no, and spouse not working. If the spouse is not working this variable is set to 2. Otherwise, it is set to 0 for no and 1 for yes.

The variable is skipped for a number of reasons. SAS special missing codes are assigned to identify the reasons. If Respondent is completely retired, R1RETWSP is set to .A for already retired. It is set to .U if Respondent is unmarried. If retirement is irrelevant, e.g., if Respondent hasn’t been working for the last 10 years or is a homemaker, R1RETWSP is set to .I for irrelevant. If the interview is by proxy, R1RETWSP is set to .S for skipped because proxy.

The spouse variable is taken from the Wave 1 spouse’s self-report, i.e., from the spouse’s R1RETWSP.

**HRS Variables Used**

HRS 1992:	
V225	A10:CURRENT MARR STA:IMP
V4901	K1:RETRD:PART,ALL,OR:IMP
V5001	K13:DATE/YR/AGE WILL:IMP
V5002	K14:SPOUSE RET SAME TIME
Tracker:	
APROXY	1992 PROXY TYPE STATUS

### Concerned about having enough retirement income

Wave	Variable	Label	Type
1	R1RETINC	R1RETINC:W1 R Worry-enough retiremnt inc	Categ
1	S1RETINC	S1RETINC:W1 S Worry-enough retiremnt inc	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETINC	8822	2.29	1.10	1.0	4.0
S1RETINC	6822	2.35	1.09	1.0	4.0

### Categorical Variable Codes

Value	R1RETINC
.A=Already retired	1803
.D=DK	5
.M=Oth missing	116
.N=No retirement plans	1269
.S=Skip,proxy IW	637
1.A lot	2801
2.Somewhat	2370
3.Little	1980
4.Not at all	1671

Value	S1RETINC
.A=Already retired	1426
.D=DK	4
.M=Oth missing	67
.N=No retirement plans	974
.S=Skip,proxy IW	607
.U=Unmarried	2373
.V=Spouse NR	379
1.A lot	1953
2.Somewhat	1884
3.Little	1634
4.Not at all	1351

### How Constructed

The question is in the retirement expectations section and asks:

"Now for things that worry some people about retirement. Please tell me if they worry you a lot, somewhat, a little, or not at all: Not having enough income to get by."

R1RETINC simply recodes missings from the HRS variable. It is set to .S if the interview is by proxy, .A if the Respondent is already completely retired (R1SAYRET=1), .N if the Respondent says s/he will never retire to the question asking when s/he thinks s/he will retire.

The spouse variable is taken from the Wave 1 spouse’s self-report, i.e., from the spouse’s R1RETINC.

**HRS Variables Used**

HRS 1992:	
V4901	K1:RETRD:PART,ALL,OR:IMP
V5001	K13:DATE/YR/AGE WILL:IMP
V5022	K22E:WORRY:NOT ENOUGH \$

### Expectations regarding retirement living standards versus current living standards

Wave	Variable	Label	Type
1	R1RETLIV	R1RETLIV:W1 R Expect-retiremt living std	Categ
1	S1RETLIV	S1RETLIV:W1 S Expect-retiremt living std	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETLIV	8743	3.39	0.78	1.0	5.0
S1RETLIV	6782	3.39	0.75	1.0	5.0

### Categorical Variable Codes

Value	R1RETLIV
.A=Already retired	1803
.D=DK	56
.M=Oth missing	142
.N=No retirement plans	1269
.S=Skip,proxy IW	639
1.Increase a lot	122
2.Increase somewhat	619
3.Stay same as now	4379
4.Decline somewhat	3016
5.Decline a lot	607

Value	S1RETLIV
.A=Already retired	1426
.D=DK	31
.M=Oth missing	78
.N=No retirement plans	974
.S=Skip,proxy IW	609
.U=Unmarried	2373
.V=Spouse NR	379
1.Increase a lot	82
2.Increase somewhat	441
3.Stay same as now	3450
4.Decline somewhat	2387
5.Decline a lot	422

### How Constructed

The question is in the retirement expectations section and asks:

"When you [and your spouse/partner] decide to retire, do you expect your living standards to increase a lot, increase somewhat, stay about the same as now, decline somewhat, or decline a lot?"

R1RETLIV simply recodes missings from the HRS variable. It is set to .S if the interview is by proxy, .A if the

Respondent is already completely retired (R1SAYRET=1), .N if the Respondent says s/he will never retire to the question asking when s/he thinks s/he will retire.

The spouse variable is taken from the Wave 1 spouse's self-report, i.e., from the spouse's R1RETLIV.

### HRS Variables Used

HRS 1992:	
V4901	K1:RETRD:PART,ALL,OR:IMP
V5001	K13:DATE/YR/AGE WILL:IMP
V5024	K23:RATE LIV STND FOR RT

<b>Expectation of total retirement wealth</b>
---

Wave	Variable	Label	Type
1	R1RETWLT	R1RETWLT:W1 R Expect-tot retirement wlth	Cont
1	S1RETWLT	S1RETWLT:W1 S Expect-tot retirement wlth	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETWLT	8947	100227.06	300590.02	0.0	9000000.0
S1RETWLT	6896	108132.44	300197.84	0.0	7000000.0

### How Constructed

The question is in the retirement expectations section and asks:

"Not counting IRA, Keogh, or any pension fund assets that you [and your spouse/partner] may have, roughly how much savings and reserve funds do you expect to have accumulated by the time you decide to retire?"

R1RETWLT simply recodes missings from the HRS variable. It is set to .S if the interview is by proxy, .A if the Respondent is already completely retired (R1SAYRET=1), .N if the Respondent says s/he will never retire to the question asking when s/he thinks s/he will retire.

The spouse variable is taken from the Wave 1 spouse's self-report, i.e., from the spouse's R1RETWLT.

### HRS Variables Used

HRS 1992:	
V4901	K1:RETRD:PART,ALL,OR:IMP
V5001	K13:DATE/YR/AGE WILL:IMP
V5025	K24:SAV:\$AMT SAVD BY:IMP

<b>Plans to continue paid work in retirement</b>
--

Wave	Variable	Label	Type
1	R1RETWRK	R1RETWRK:W1 R Plan-paid work aft retired	Categ
1	S1RETWRK	S1RETWRK:W1 S Plan-paid work aft retired	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETWRK	10176	0.73	0.44	0.0	1.0
S1RETWRK	7908	0.72	0.45	0.0	1.0

### Categorical Variable Codes

Value	R1RETWRK
.D=DK	1762
.M=Oth missing	71
.S=Skip,proxy IW	643
0.Stop work entirely	2733
1.Continue paid work	7443

Value	S1RETWRK
.D=DK	1342
.M=Oth missing	38
.S=Skip,proxy IW	612
.U=Unmarried	2373
.V=Spouse NR	379
0.Stop work entirely	2231
1.Continue paid work	5677

### How Constructed

The question is in the retirement expectations section and asks:

"Some people want to stop paid work entirely when they retire, while others would like to continue doing some paid work, what about you?"

R1RETWRK simply recodes the HRS variable. A "stop work entirely" response is set to 0 and "continue paid work" is set to 1. This question is skipped if the interview is by proxy. In this case R1RETWRK is set to .S. There are many "don't know" responses to this question; the questionnaire indicates that this missing value includes both "not applicable" and "don't know." There was no clear reason for a "not applicable" code.

The spouse variable is taken from the Wave 1 spouse's self-report, i.e., from the spouse's R1RETWRK.



**HRS Variables Used**

HRS 1992:  
V5032                    K26:CONT PAID WRK AT RET

### Self-reported probability of living to age 75

Wave	Variable	Label	Type
1	R1LIV75	R1LIV75:W1 R Probability to live 75+	Cont
2	R2LIV75	R2LIV75:W2 R Probability to live 75+	Cont
3	R3LIV75	R3LIV75:W3 R Probability to live 75+	Cont
4	R4LIV75	R4LIV75:W4 R Probability to live 75+	Cont
5	R5LIV75	R5LIV75:W5 R Probability to live 75+	Cont
6	R6LIV75	R6LIV75:W6 R Probability to live 75+	Cont
7	R7LIV75	R7LIV75:W7 R Probability to live 75+	Cont
8	R8LIV75	R8LIV75:W8 R Probability to live 75+	Cont
9	R9LIV75	R9LIV75:W9 R Probability to live 75+	Cont
10	R10LIV75	R10LIV75:W10 R Probability to live 75+	Cont
11	R11LIV75	R11LIV75:W11 R Probability to live 75+	Cont
12	R12LIV75	R12LIV75:W12 R Probability to live 75+	Cont
1	S1LIV75	S1LIV75:W1 S Probability to live 75+	Cont
2	S2LIV75	S2LIV75:W2 S Probability to live 75+	Cont
3	S3LIV75	S3LIV75:W3 S Probability to live 75+	Cont
4	S4LIV75	S4LIV75:W4 S Probability to live 75+	Cont
5	S5LIV75	S5LIV75:W5 S Probability to live 75+	Cont
6	S6LIV75	S6LIV75:W6 S Probability to live 75+	Cont
7	S7LIV75	S7LIV75:W7 S Probability to live 75+	Cont
8	S8LIV75	S8LIV75:W8 S Probability to live 75+	Cont
9	S9LIV75	S9LIV75:W9 S Probability to live 75+	Cont
10	S10LIV75	S10LIV75:W10 S Probability to live 75+	Cont
11	S11LIV75	S11LIV75:W11 S Probability to live 75+	Cont
12	S12LIV75	S12LIV75:W12 S Probability to live 75+	Cont
1	R1LIV75P	R1LIV75P:W1 LfTab prob live 75+/R curage	Cont
2	R2LIV75P	R2LIV75P:W2 LfTab prob live 75+/R curage	Cont
3	R3LIV75P	R3LIV75P:W3 LfTab prob live 75+/R curage	Cont
4	R4LIV75P	R4LIV75P:W4 LfTab prob live 75+/R curage	Cont
5	R5LIV75P	R5LIV75P:W5 LfTab prob live 75+/R curage	Cont
6	R6LIV75P	R6LIV75P:W6 LfTab prob live 75+/R curage	Cont
7	R7LIV75P	R7LIV75P:W7 LfTab prob live 75+/R curage	Cont
8	R8LIV75P	R8LIV75P:W8 LfTab prob live 75+/R curage	Cont
9	R9LIV75P	R9LIV75P:W9 LfTab prob live 75+/R curage	Cont
10	R10LIV75P	R10LIV75P:W10 LfTab prob live 75+/R curage	Cont
11	R11LIV75P	R11LIV75P:W11 LfTab prob live 75+/R curage	Cont
12	R12LIV75P	R12LIV75P:W12 LfTab prob live 75+/R curage	Cont
1	S1LIV75P	S1LIV75P:W1 LfTab prob live 75+/R curage	Cont
2	S2LIV75P	S2LIV75P:W2 LfTab prob live 75+/R curage	Cont
3	S3LIV75P	S3LIV75P:W3 LfTab prob live 75+/R curage	Cont
4	S4LIV75P	S4LIV75P:W4 LfTab prob live 75+/R curage	Cont
5	S5LIV75P	S5LIV75P:W5 LfTab prob live 75+/R curage	Cont
6	S6LIV75P	S6LIV75P:W6 LfTab prob live 75+/R curage	Cont
7	S7LIV75P	S7LIV75P:W7 LfTab prob live 75+/R curage	Cont
8	S8LIV75P	S8LIV75P:W8 LfTab prob live 75+/R curage	Cont
9	S9LIV75P	S9LIV75P:W9 LfTab prob live 75+/R curage	Cont
10	S10LIV75P	S10LIV75P:W10 LfTab prob live 75+/R curage	Cont
11	S11LIV75P	S11LIV75P:W11 LfTab prob live 75+/R curage	Cont
12	S12LIV75P	S12LIV75P:W12 LfTab prob live 75+/R curage	Cont
1	R1LIV75R	R1LIV75R:W1 Rprob live 75+ / LfTab prob	Cont
2	R2LIV75R	R2LIV75R:W2 Rprob live 75+ / LfTab prob	Cont
3	R3LIV75R	R3LIV75R:W3 Rprob live 75+ / LfTab prob	Cont
4	R4LIV75R	R4LIV75R:W4 Rprob live 75+ / LfTab prob	Cont
5	R5LIV75R	R5LIV75R:W5 Rprob live 75+ / LfTab prob	Cont
6	R6LIV75R	R6LIV75R:W6 Rprob live 75+ / LfTab prob	Cont
7	R7LIV75R	R7LIV75R:W7 Rprob live 75+ / LfTab prob	Cont
8	R8LIV75R	R8LIV75R:W8 Rprob live 75+ / LfTab prob	Cont
9	R9LIV75R	R9LIV75R:W9 Rprob live 75+ / LfTab prob	Cont
10	R10LIV75R	R10LIV75R:W10 Rprob live 75+ / LfTab prob	Cont
11	R11LIV75R	R11LIV75R:W11 Rprob live 75+ / LfTab prob	Cont
12	R12LIV75R	R12LIV75R:W12 Rprob live 75+ / LfTab prob	Cont
1	S1LIV75R	S1LIV75R:W1 Rprob live 75+ / LfTab prob	Cont

2	S2LIV75R	S2LIV75R:W2 Rprob live 75+ / LfTab prob	Cont
3	S3LIV75R	S3LIV75R:W3 Rprob live 75+ / LfTab prob	Cont
4	S4LIV75R	S4LIV75R:W4 Rprob live 75+ / LfTab prob	Cont
5	S5LIV75R	S5LIV75R:W5 Rprob live 75+ / LfTab prob	Cont
6	S6LIV75R	S6LIV75R:W6 Rprob live 75+ / LfTab prob	Cont
7	S7LIV75R	S7LIV75R:W7 Rprob live 75+ / LfTab prob	Cont
8	S8LIV75R	S8LIV75R:W8 Rprob live 75+ / LfTab prob	Cont
9	S9LIV75R	S9LIV75R:W9 Rprob live 75+ / LfTab prob	Cont
10	S10LIV75R	S10LIV75R:W10 Rprob live 75+ / LfTab prob	Cont
11	S11LIV75R	S11LIV75R:W11 Rprob live 75+ / LfTab prob	Cont
12	S12LIV75R	S12LIV75R:W12 Rprob live 75+ / LfTab prob	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIV75	11758	64.59	29.68	0.0	100.0
R2LIV75	9668	63.50	28.97	0.0	100.0
R3LIV75	8828	65.15	30.59	0.0	100.0
R4LIV75	9417	65.29	29.24	0.0	100.0
R5LIV75	8231	66.52	28.05	0.0	100.0
R6LIV75	6853	66.26	28.18	0.0	100.0
R7LIV75	8724	64.64	28.82	0.0	100.0
R8LIV75	6442	63.23	29.38	0.0	100.0
R9LIV75	5354	65.52	28.37	0.0	100.0
R10LIV75	10071	62.36	30.12	0.0	100.0
R11LIV75	9151	60.44	30.40	0.0	100.0
R12LIV75	7850	60.76	30.27	0.0	100.0
S1LIV75	9138	65.17	29.07	0.0	100.0
S2LIV75	7275	63.97	28.16	0.0	100.0
S3LIV75	6499	65.92	29.77	0.0	100.0
S4LIV75	6964	65.70	28.50	0.0	100.0
S5LIV75	6113	67.12	27.34	0.0	100.0
S6LIV75	5077	66.76	27.57	0.0	100.0
S7LIV75	6302	65.45	28.07	0.0	100.0
S8LIV75	4738	64.22	28.55	0.0	100.0
S9LIV75	3848	66.14	27.62	0.0	100.0
S10LIV75	6641	63.07	29.22	0.0	100.0
S11LIV75	6041	60.90	29.71	0.0	100.0
S12LIV75	5058	61.30	29.44	0.0	100.0
R1LIV75P	12651	69.64	7.17	54.2	100.0
R2LIV75P	19641	80.96	13.74	54.6	100.0
R3LIV75P	17991	82.23	13.32	55.7	100.0
R4LIV75P	21384	82.23	12.57	57.6	100.0
R5LIV75P	19579	83.69	12.02	58.8	100.0
R6LIV75P	18165	85.42	11.23	60.2	100.0
R7LIV75P	20129	84.72	11.19	61.9	100.0
R8LIV75P	18469	86.44	10.65	62.4	100.0
R9LIV75P	17217	87.88	10.23	63.3	100.0
R10LIV75P	22034	85.65	10.61	64.2	100.0
R11LIV75P	20554	86.85	10.28	64.9	100.0
R12LIV75P	18747	87.66	10.09	65.0	100.0
S1LIV75P	9900	69.26	7.22	54.2	100.0
S2LIV75P	13088	77.87	12.80	54.6	100.0
S3LIV75P	11915	79.35	12.50	55.7	100.0

S4LIV75P	13978	79.63	11.85	57.6	100.0
S5LIV75P	12730	81.08	11.41	58.8	100.0
S6LIV75P	11639	83.03	10.82	60.2	100.0
S7LIV75P	12972	82.64	10.76	61.9	100.0
S8LIV75P	11735	84.39	10.42	62.4	100.0
S9LIV75P	10646	85.98	10.13	63.3	100.0
S10LIV75P	13513	84.15	10.33	64.2	100.0
S11LIV75P	12488	85.30	10.08	64.9	100.0
S12LIV75P	11027	86.05	9.94	65.0	100.0
R1LIV75R	11757	0.93	0.44	0.0	1.8
R2LIV75R	9668	0.90	0.42	0.0	1.8
R3LIV75R	8828	0.91	0.43	0.0	1.7
R4LIV75R	9417	0.90	0.41	0.0	1.7
R5LIV75R	8231	0.90	0.39	0.0	1.7
R6LIV75R	6853	0.88	0.38	0.0	1.6
R7LIV75R	8724	0.86	0.39	0.0	1.6
R8LIV75R	6442	0.83	0.39	0.0	1.6
R9LIV75R	5354	0.85	0.37	0.0	1.6
R10LIV75R	10071	0.81	0.40	0.0	1.5
R11LIV75R	9151	0.78	0.39	0.0	1.5
R12LIV75R	7850	0.78	0.39	0.0	1.5
S1LIV75R	9138	0.94	0.43	0.0	1.8
S2LIV75R	7275	0.92	0.41	0.0	1.8
S3LIV75R	6499	0.92	0.42	0.0	1.7
S4LIV75R	6964	0.92	0.40	0.0	1.7
S5LIV75R	6113	0.92	0.38	0.0	1.7
S6LIV75R	5077	0.89	0.37	0.0	1.6
S7LIV75R	6302	0.87	0.38	0.0	1.6
S8LIV75R	4738	0.85	0.38	0.0	1.6
S9LIV75R	3848	0.87	0.36	0.0	1.6
S10LIV75R	6641	0.83	0.39	0.0	1.5
S11LIV75R	6041	0.79	0.39	0.0	1.5
S12LIV75R	5058	0.79	0.38	0.0	1.5

## General Comments

Questions about probability of living to a given age vary between the AHEAD and HRS entry cohorts in Waves 2 and 3, due to the difference in the age of the Respondents. Thus, AHEAD Respondents are not asked about living to age 75, since most of them are close to or past that age at the first interview. So for the AHEAD entry cohort in Waves 2A and 3A, RwLIV75 and related variables (RwLIV75R, RwLIV75C, and RwLIV75F) are set to .Q to indicate that the information is not available. If an AHEAD Respondent is 75 or younger, RwLIV75P is set for them; if older than 75, RwLIV75P is set to 100.

In Waves 1, 2H, 3H, and 4, questions ask the Respondent the probability of living to age 85. In Wave 4, few of the AHEAD Respondents are young enough to be asked this question. To accommodate older Respondents, in Waves 2A, 3A, and from Wave 5 forward, the question does not always ask the probability of living to age 85, but asks the probability of living to an age from 80 to 100, depending on the Respondent's age. From Wave 5 on, the wording depends on the Respondent's age at the interview. In Waves 2A and 3A, the wording depends on birth year and is the same in both waves, even though Respondents are usually two years older in Wave 3A. So the age used to determine question wording in these waves is age in 1993.

These two different versions of the variables are named differently to alert the user to the inconsistencies in the questions. The Wave 1, 2H, 3H, and 4 variables are named RwLIV85, RwLIV85P, and RwLIV85R, while the Wave 2A, 3A, and from Wave 5 forward variables are named RwLIV10 (for 10 or so more years), RwLIV10P, and RwLIV10R. Changes in these probabilities from those given in a previous wave are used to measure change in health status in variables RwLIV75C, RwLIV85C, and R2LIV8XC. If the change uses RwLIV10R in the current or previous wave, then it is assigned to RwLIV8XC. If it uses RwLIV85R in both waves, it is assigned to RwLIV85C.

For AHEAD Respondents in Waves 2 and 3 (2A and 3A), RwLIV85, RwLIV85P, RwLIV85R, RwLIV85C, and RwLIV85F are set to .Q to indicate that this information is unavailable for this cohort in these waves. In addition, R4LIV85C and R4LIV85F are set to .Q for these cases, since the information is not available from a prior wave.

For HRS Respondents in Waves 2 and 3 (2H and 3H), RwLIV10, RwLIV10P, RwLIV10R, RwLIV8XC, and RwLIV8XF are set to .Q to indicate that these are inapplicable or unavailable for this cohort in these waves. In addition, R4LIV8XC and R4LIV8XF are set to .Q for these cases, since the prior wave information is completely based on RwLIV85 information.

## How Constructed

RwLIV75 is the Respondent's self-reported probability of living to age 75.

RwLIV75P is the implied probability from the Vital Statistics life tables that someone of the Respondent's age and gender will live to be 75. RwLIV75R is the ratio between RwLIV75 and RwLIV75P.

The life tables used are the annual life tables for the year of the wave, e.g., the 1998 life table is used to derive R4LIV75P and the 2000 life table is used to derive R5LIV75P. For Waves 3A and 3H, an alternate set of life tables, similar to those from the NCHS web page but providing estimates beyond age 85, were taken from the Berkeley Mortality Database. The probability of survival is calculated as the number surviving at age 75 divided by the number surviving to the Respondent's age, for males or females, as appropriate. SwLIV75, SwLIV75P, and SwLIV75R provide this information for the Respondent's spouse or partner.

In Wave 1 Respondent's self-reported probability is given on a 0-10 scale. This is multiplied by 10 to derive a 0-100 scale consistent with that reported in other waves.

Otherwise this variable simply recodes missing values. It is set to .S if the question is skipped because the interview is by proxy. From Wave 2H forward, it is set to .A if skipped because Respondent is older than 65. It is set to .X if the Respondent can not perform the probability question. .D means "Don't Know" and .R means the "Respondent refused to answer the question."

The spouse variable is taken from the wave "w" spouse's self-report, e.g., S3LIV75 is taken from the Wave 3 spouse's R3LIV75. Note this variable is also used to measure changes in health across waves. See the Health section of this document for the relevant variables (RwLIV75C).

This question is not asked in Wave 2A or 3A and so the variables are set to .Q.

## Cross Wave Differences in Original HRS Data

In Waves 1 and 2H, the question is asked in the Cognition section. In subsequent waves it is asked in the Expectations section.

In Wave 1, the question asks: "What do you think are the chances that you will live to be 75 or more?"

In subsequent waves, the question is: "(What is the percent chance) that you will live to be 75 or more?"

In Wave 1, the responses are on a scale of 0 to 10, with 0 meaning absolutely no chance and 10 meaning absolutely no chance. In subsequent waves responses are scaled from 0 to 100.

In all waves, the question is skipped if the interview is by proxy. Beginning in Wave 2H this question is skipped if Respondent is older than age 65. This question is not asked in Waves 2A and 3A.

## HRS Variables Used

HRS 1992:	
V5115	L7:FUTR:WILL LIVE TO 75+
HRS 1994:	
W5839	C6.CHANCE LIVE TO 75
HRS 1996:	
E3819	H8. CHANCE LIVE TO 75
HRS 1998:	
F4605	H11. CHANCE LIVE TO 75
HRS 2000:	
G5018	H11. CHANCE LIVE TO 75
G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OP028	CHANCE R WILL LIVE TO BE AGE 75 OR MORE

<b>Self-reported probability of living to age 85</b>
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Wave	Variable	Label	Type
1	R1LIV85	R1LIV85:W1 R Probability to live 85+	Cont
2	R2LIV85	R2LIV85:W2 R Probability to live 85+	Cont
3	R3LIV85	R3LIV85:W3 R Probability to live 85+	Cont
4	R4LIV85	R4LIV85:W4 R Probability to live 85+	Cont
1	S1LIV85	S1LIV85:W1 S Probability to live 85+	Cont
2	S2LIV85	S2LIV85:W2 S Probability to live 85+	Cont
3	S3LIV85	S3LIV85:W3 S Probability to live 85+	Cont
4	S4LIV85	S4LIV85:W4 S Probability to live 85+	Cont
2	R2LIV10	R2LIV10:W2 R Probability to live 80-100	Cont
3	R3LIV10	R3LIV10:W3 R Probability to live 80-100	Cont
5	R5LIV10	R5LIV10:W5 R Probability to live 80-100	Cont
6	R6LIV10	R6LIV10:W6 R Probability to live 80-100	Cont
7	R7LIV10	R7LIV10:W7 R Probability to live 80-100	Cont
8	R8LIV10	R8LIV10:W8 R Probability to live 80-100	Cont
9	R9LIV10	R9LIV10:W9 R Probability to live 80-100	Cont
10	R10LIV10	R10LIV10:W10 R Probability to live 80-100	Cont
11	R11LIV10	R11LIV10:W11 R Probability to live 80-100	Cont
12	R12LIV10	R12LIV10:W12 R Probability to live 80-100	Cont
2	S2LIV10	S2LIV10:W2 S Probability to live 80-100	Cont
3	S3LIV10	S3LIV10:W3 S Probability to live 80-100	Cont
5	S5LIV10	S5LIV10:W5 S Probability to live 80-100	Cont
6	S6LIV10	S6LIV10:W6 S Probability to live 80-100	Cont
7	S7LIV10	S7LIV10:W7 S Probability to live 80-100	Cont
8	S8LIV10	S8LIV10:W8 S Probability to live 80-100	Cont
9	S9LIV10	S9LIV10:W9 S Probability to live 80-100	Cont
10	S10LIV10	S10LIV10:W10 S Probability to live 80-100	Cont
11	S11LIV10	S11LIV10:W11 S Probability to live 80-100	Cont
12	S12LIV10	S12LIV10:W12 S Probability to live 80-100	Cont
2	R2LIV10A	R2LIV10A:W2 Age used in live 80-100/85 Q	Cont
3	R3LIV10A	R3LIV10A:W3 Age used in live 80-100/85 Q	Cont
5	R5LIV10A	R5LIV10A:W5 Age used in live 80-100/85 Q	Cont
6	R6LIV10A	R6LIV10A:W6 Age used in live 80-100/85 Q	Cont
7	R7LIV10A	R7LIV10A:W7 Age used in live 80-100/85 Q	Cont
8	R8LIV10A	R8LIV10A:W8 Age used in live 80-100/85 Q	Cont
9	R9LIV10A	R9LIV10A:W9 Age used in live 80-100/85 Q	Cont
10	R10LIV10A	R10LIV10A:W10 Age used in live 80-100/85 Q	Cont
11	R11LIV10A	R11LIV10A:W11 Age used in live 80-100/85 Q	Cont
12	R12LIV10A	R12LIV10A:W12 Age used in live 80-100/85 Q	Cont
2	S2LIV10A	S2LIV10A:W2 Age used in live 80-100/85 Q	Cont
3	S3LIV10A	S3LIV10A:W3 Age used in live 80-100/85 Q	Cont
5	S5LIV10A	S5LIV10A:W5 Age used in live 80-100/85 Q	Cont
6	S6LIV10A	S6LIV10A:W6 Age used in live 80-100/85 Q	Cont
7	S7LIV10A	S7LIV10A:W7 Age used in live 80-100/85 Q	Cont
8	S8LIV10A	S8LIV10A:W8 Age used in live 80-100/85 Q	Cont
9	S9LIV10A	S9LIV10A:W9 Age used in live 80-100/85 Q	Cont
10	S10LIV10A	S10LIV10A:W10 Age used in live 80-100/85 Q	Cont
11	S11LIV10A	S11LIV10A:W11 Age used in live 80-100/85 Q	Cont
12	S12LIV10A	S12LIV10A:W12 Age used in live 80-100/85 Q	Cont
1	R1LIV85P	R1LIV85P:W1 LfTab prob live 85+/R curage	Cont
2	R2LIV85P	R2LIV85P:W2 LfTab prob live 85+/R curage	Cont
3	R3LIV85P	R3LIV85P:W3 LfTab prob live 85+/R curage	Cont
4	R4LIV85P	R4LIV85P:W4 LfTab prob live 85+/R curage	Cont
1	S1LIV85P	S1LIV85P:W1 LfTab prob live 85+/R curage	Cont
2	S2LIV85P	S2LIV85P:W2 LfTab prob live 85+/R curage	Cont
3	S3LIV85P	S3LIV85P:W3 LfTab prob live 85+/R curage	Cont
4	S4LIV85P	S4LIV85P:W4 LfTab prob live 85+/R curage	Cont
2	R2LIV10P	R2LIV10P:W2 LfTab prob live 80-100/R curage	Cont
3	R3LIV10P	R3LIV10P:W3 LfTab prob live 80-100/R curage	Cont

5	R5LIV10P	R5LIV10P:W5 LfTab prob live 80-100/R curage	Cont
6	R6LIV10P	R6LIV10P:W6 LfTab prob live 80-100/R curage	Cont
7	R7LIV10P	R7LIV10P:W7 LfTab prob live 80-100/R curage	Cont
8	R8LIV10P	R8LIV10P:W8 LfTab prob live 80-100/R curage	Cont
9	R9LIV10P	R9LIV10P:W9 LfTab prob live 80-100/R curage	Cont
10	R10LIV10P	R10LIV10P:W10 LfTab prob live 80-100/R curage	Cont
11	R11LIV10P	R11LIV10P:W11 LfTab prob live 80-100/R curage	Cont
12	R12LIV10P	R12LIV10P:W12 LfTab prob live 80-100/R curage	Cont
2	S2LIV10P	S2LIV10P:W2 LfTab prob live 80-100/R curage	Cont
3	S3LIV10P	S3LIV10P:W3 LfTab prob live 80-100/R curage	Cont
5	S5LIV10P	S5LIV10P:W5 LfTab prob live 80-100/R curage	Cont
6	S6LIV10P	S6LIV10P:W6 LfTab prob live 80-100/R curage	Cont
7	S7LIV10P	S7LIV10P:W7 LfTab prob live 80-100/R curage	Cont
8	S8LIV10P	S8LIV10P:W8 LfTab prob live 80-100/R curage	Cont
9	S9LIV10P	S9LIV10P:W9 LfTab prob live 80-100/R curage	Cont
10	S10LIV10P	S10LIV10P:W10 LfTab prob live 80-100/R curage	Cont
11	S11LIV10P	S11LIV10P:W11 LfTab prob live 80-100/R curage	Cont
12	S12LIV10P	S12LIV10P:W12 LfTab prob live 80-100/R curage	Cont
1	R1LIV85R	R1LIV85R:W1 Rprob live 85+ / LfTab prob	Cont
2	R2LIV85R	R2LIV85R:W2 Rprob live 85+ / LfTab prob	Cont
3	R3LIV85R	R3LIV85R:W3 Rprob live 85+ / LfTab prob	Cont
4	R4LIV85R	R4LIV85R:W4 Rprob live 85+ / LfTab prob	Cont
1	S1LIV85R	S1LIV85R:W1 Rprob live 85+ / LfTab prob	Cont
2	S2LIV85R	S2LIV85R:W2 Rprob live 85+ / LfTab prob	Cont
3	S3LIV85R	S3LIV85R:W3 Rprob live 85+ / LfTab prob	Cont
4	S4LIV85R	S4LIV85R:W4 Rprob live 85+ / LfTab prob	Cont
2	R2LIV10R	R2LIV10R:W2 Rprob live 80-100 / LfTab prob	Cont
3	R3LIV10R	R3LIV10R:W3 Rprob live 80-100 / LfTab prob	Cont
5	R5LIV10R	R5LIV10R:W5 Rprob live 80-100 / LfTab prob	Cont
6	R6LIV10R	R6LIV10R:W6 Rprob live 80-100 / LfTab prob	Cont
7	R7LIV10R	R7LIV10R:W7 Rprob live 80-100 / LfTab prob	Cont
8	R8LIV10R	R8LIV10R:W8 Rprob live 80-100 / LfTab prob	Cont
9	R9LIV10R	R9LIV10R:W9 Rprob live 80-100 / LfTab prob	Cont
10	R10LIV10R	R10LIV10R:W10 Rprob live 80-100 / LfTab prob	Cont
11	R11LIV10R	R11LIV10R:W11 Rprob live 80-100 / LfTab prob	Cont
12	R12LIV10R	R12LIV10R:W12 Rprob live 80-100 / LfTab prob	Cont
2	S2LIV10R	S2LIV10R:W2 Rprob live 80-100 / LfTab prob	Cont
3	S3LIV10R	S3LIV10R:W3 Rprob live 80-100 / LfTab prob	Cont
5	S5LIV10R	S5LIV10R:W5 Rprob live 80-100 / LfTab prob	Cont
6	S6LIV10R	S6LIV10R:W6 Rprob live 80-100 / LfTab prob	Cont
7	S7LIV10R	S7LIV10R:W7 Rprob live 80-100 / LfTab prob	Cont
8	S8LIV10R	S8LIV10R:W8 Rprob live 80-100 / LfTab prob	Cont
9	S9LIV10R	S9LIV10R:W9 Rprob live 80-100 / LfTab prob	Cont
10	S10LIV10R	S10LIV10R:W10 Rprob live 80-100 / LfTab prob	Cont
11	S11LIV10R	S11LIV10R:W11 Rprob live 80-100 / LfTab prob	Cont
12	S12LIV10R	S12LIV10R:W12 Rprob live 80-100 / LfTab prob	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIV85	11740	43.47	32.28	0.0	100.0
R2LIV85	10163	42.02	31.28	0.0	100.0
R3LIV85	9583	45.16	33.16	0.0	100.0
R4LIV85	9303	43.54	31.89	0.0	100.0
S1LIV85	9133	43.62	31.82	0.0	100.0
S2LIV85	7755	42.05	30.81	0.0	100.0
S3LIV85	7219	45.33	32.63	0.0	100.0
S4LIV85	6897	43.33	31.31	0.0	100.0



R2LIV10	6141	43.18	34.85	0.0	100.0
R3LIV10	5338	50.24	32.88	0.0	100.0
R5LIV10	15579	49.56	31.82	0.0	100.0
R6LIV10	14420	48.63	32.08	0.0	100.0
R7LIV10	16780	49.04	32.35	0.0	100.0
R8LIV10	15467	45.30	32.15	0.0	100.0
R9LIV10	14450	48.29	31.73	0.0	100.0
R10LIV10	18911	45.77	32.61	0.0	100.0
R11LIV10	17925	45.21	32.20	0.0	100.0
R12LIV10	16452	45.73	32.13	0.0	100.0
S2LIV10	3423	45.88	33.94	0.0	100.0
S3LIV10	2929	52.44	31.67	0.0	100.0
S5LIV10	10469	50.85	31.04	0.0	100.0
S6LIV10	9540	50.25	31.09	0.0	100.0
S7LIV10	11137	50.27	31.61	0.0	100.0
S8LIV10	10171	46.40	31.35	0.0	100.0
S9LIV10	9300	49.23	30.46	0.0	100.0
S10LIV10	11938	46.50	31.54	0.0	100.0
S11LIV10	11256	45.59	31.36	0.0	100.0
S12LIV10	9991	46.33	30.99	0.0	100.0
R2LIV10A	7930	89.12	5.63	80.0	100.0
R3LIV10A	6803	88.83	5.57	80.0	100.0
R5LIV10A	19142	83.93	6.01	80.0	100.0
R6LIV10A	17603	84.26	6.13	80.0	100.0
R7LIV10A	19431	83.90	6.00	80.0	100.0
R8LIV10A	17948	86.32	5.20	80.0	100.0
R9LIV10A	16675	86.56	5.36	80.0	100.0
R10LIV10A	21457	86.39	4.60	80.0	100.0
R11LIV10A	19951	86.62	4.72	80.0	100.0
R12LIV10A	18139	86.71	4.91	80.0	100.0
S2LIV10A	4293	87.51	5.46	80.0	100.0
S3LIV10A	3552	87.24	5.33	80.0	100.0
S5LIV10A	12667	82.78	4.96	80.0	100.0
S6LIV10A	11500	83.09	5.10	80.0	100.0
S7LIV10A	12699	82.90	5.04	80.0	100.0
S8LIV10A	11658	85.59	4.43	80.0	100.0
S9LIV10A	10564	85.82	4.67	80.0	100.0
S10LIV10A	13421	85.85	4.06	80.0	100.0
S11LIV10A	12396	86.05	4.26	80.0	100.0
S12LIV10A	10937	86.11	4.44	80.0	100.0
R1LIV85P	12651	37.44	8.86	24.1	100.0
R2LIV85P	11419	37.87	8.33	24.4	88.4
R3LIV85P	10964	39.21	7.92	25.5	100.0
R4LIV85P	21384	49.64	18.17	26.9	100.0
S1LIV85P	9900	36.83	8.82	24.1	100.0
S2LIV85P	8739	37.17	8.31	24.4	88.4
S3LIV85P	8306	38.52	7.94	25.5	100.0
S4LIV85P	13978	45.13	14.33	26.9	100.0
R2LIV10P	7930	34.61	19.11	1.9	72.5
R3LIV10P	6803	38.59	19.38	2.6	100.0
R5LIV10P	19142	49.33	18.15	1.8	100.0
R6LIV10P	17603	49.94	18.67	3.5	100.0
R7LIV10P	19431	52.33	17.90	4.1	90.6

R8LIV10P	17948	43.53	17.54	2.8	100.0
R9LIV10P	16675	44.81	18.54	1.1	100.0
R10LIV10P	21457	45.30	16.13	2.8	77.1
R11LIV10P	19951	45.50	16.50	2.8	77.6
R12LIV10P	18139	46.00	17.06	3.0	77.9
S2LIV10P	4293	37.77	19.81	1.9	72.5
S3LIV10P	3552	41.65	19.78	2.6	75.9
S5LIV10P	12667	51.60	15.72	1.8	100.0
S6LIV10P	11500	52.22	16.33	3.5	78.8
S7LIV10P	12699	54.22	15.71	4.1	83.9
S8LIV10P	11658	44.50	15.90	2.8	92.6
S9LIV10P	10564	46.01	16.93	2.6	100.0
S10LIV10P	13421	46.05	15.06	2.8	77.1
S11LIV10P	12396	46.37	15.60	2.8	77.6
S12LIV10P	10937	46.93	16.03	3.0	77.9
R1LIV85R	11739	1.20	0.95	0.0	4.0
R2LIV85R	10162	1.14	0.90	0.0	4.1
R3LIV85R	9583	1.18	0.90	0.0	3.8
R4LIV85R	9303	1.12	0.85	0.0	3.6
S1LIV85R	9133	1.22	0.95	0.0	4.0
S2LIV85R	7755	1.16	0.90	0.0	4.1
S3LIV85R	7219	1.20	0.90	0.0	3.6
S4LIV85R	6897	1.13	0.85	0.0	3.6
R2LIV10R	6141	1.87	3.49	0.0	47.0
R3LIV10R	5338	1.79	2.86	0.0	37.8
R5LIV10R	15554	1.23	1.76	0.0	31.6
R6LIV10R	14420	1.15	1.50	0.0	25.5
R7LIV10R	16780	1.07	1.27	0.0	24.3
R8LIV10R	15467	1.28	1.96	0.0	35.7
R9LIV10R	14450	1.42	2.40	0.0	38.3
R10LIV10R	18911	1.20	1.79	0.0	35.6
R11LIV10R	17925	1.22	1.90	0.0	35.1
R12LIV10R	16452	1.22	1.84	0.0	33.0
S2LIV10R	3423	1.77	3.27	0.0	47.0
S3LIV10R	2929	1.70	2.66	0.0	37.8
S5LIV10R	10462	1.14	1.48	0.0	31.6
S6LIV10R	9540	1.09	1.28	0.0	25.5
S7LIV10R	11137	1.02	1.07	0.0	21.9
S8LIV10R	10171	1.22	1.70	0.0	35.7
S9LIV10R	9300	1.34	2.19	0.0	34.5
S10LIV10R	11938	1.17	1.65	0.0	35.6
S11LIV10R	11256	1.17	1.76	0.0	35.1
S12LIV10R	9991	1.18	1.71	0.0	29.7

## How Constructed

Please see General Comments section of "Self-Reported probability of living to age 75" for details of how this item was asked across questionnaires.

RwLIV85 is the Respondent's self-reported probability of living to age 85. For Waves 2A, 3A and from Wave 5

forward the variable measures the self-reported probability of living about another 10 years, and the name of the variables (RwLIV10) reflects this change. Except in Wave 8, for Respondents who are under 70 years old at the particular wave, RwLIV10 is the self-reported probability of living to age 80; for those 70 to 74, it is the probability of living to age 85; and so on. From Wave 8 forward, Respondents under 65 are asked about living to age 85 and those from 65 to 69 are asked about living to age 80. RwLIV10A gives the specific age used in the question, which ranges from 80 to 100, in Waves 2, 3, and Wave 5 forward. In Waves 1 and 4, the question asked about age 85 in all cases.

RwLIV85P is the implied probability from the Vital Statistics life tables that someone of the Respondent's age and gender will live to be 85. RwLIV10P is the implied probability that someone of the Respondent's age and gender will live to be the age used in the Wave 5 question. The life tables used are the annual life tables for the year of the wave, e.g., the 1998 life table is used to derive R4LIV85P and the 2000 life table is used to derive R5LIV10P. For Waves 3A and 3H, an alternate set of life tables, similar to those from the NCHS web page but providing estimates beyond age 85, were taken from the Berkeley Mortality Database. The probability of survival is calculated as the number surviving at age 85 (or 90, 95, or 100) divided by the number surviving to Respondent's age, for males or females, as appropriate.

RwLIV85R is the ratio between RwLIV85 and RwLIV85P. RwLIV10R is the ratio between RwLIV10 and RwLIV10P.

SwLIV85, SwLIV85P, SwLIV85R, SwLIV10, SwLIV10P, and SwLIV10R provide this information for the Respondent's spouse or partner.

In the question preceding the one from which these variables are derived, which asks the chances of living to age 75, if Respondent responds "absolutely no chance" (=0), this variable is set to the same. It is assumed that if the Respondent reports no chance of living to age 75 that s/he would report no chance of living to an older age. If the analyst needs to know the cases where RwLIV85/10 is logically imputed using RwLIV75, s/he can simply check RwLIV75 for a value of zero.

In Wave 1 the Respondent's self-reported probability is given on a 0-10 scale. This is multiplied by 10 to derive a 0-100 scale consistent with that reported in other waves.

Otherwise the derivation of RwLIV85 and RwLIV10 simply recodes missing values. It is set to .S if the question is skipped because the interview is by proxy. It is set to .X if the Respondent can not perform the probability question. .D means Don't Know and .R means the Respondent refused to answer the question. For Waves 2H to 4, it is set to .A if skipped because Respondent is older than 75. In Wave 5, it is set to .A if skipped because Respondent is older than 90. Note that in Wave 4, inappropriate skips (Respondent is 66 to 75) appear as other missings (.M).

RwLIV85P and RwLIV10P are calculated from the Vital Statistics life tables, using the Respondent's age and gender, as the probability of living to the target age, 85 and the age used in the Wave 2A, 3A and 5 question, given that the Respondent has lived to her/his current age. The calculation divides the total population at the target age by the total population at the Respondent's current age.

The derivation assigns the ratio,  $RwLIV85 / RwLIV85P$ , to RwLIV85R. It assigns the ratio,  $RwLIV10 / RwLIV10P$ , to RwLIV10R. The spouse variables are taken from the wave "w" spouse's self-report, e.g., S3LIV85 is taken from the Wave 3 spouse's R3LIV85. Note this variable is also used to measure changes in health across waves. See the Health section of this document for the relevant variables (e.g., RwLIV85C).

In Waves 2A and 3A, the data needed to derive R2LIV85, R2LIV85P, R2LIV85R, R3LIV85, R3LIV85P, and R3LIV85R are not collected. R2LIV85, R2LIV85P, R2LIV85R, R3LIV85, R3LIV85P, and R3LIV85R are set to .Q to indicate that this information is not available for AHEAD Respondents in these waves.

In Waves 2H and 3H, the data needed to derive R2LIV10, R2LIV10P, R2LIV10R, R3LIV10, R3LIV10P, and R3LIV10R are not collected. R2LIV10, R2LIV10P, R2LIV10R, R3LIV10, R3LIV10P, and R3LIV10R are set to .Q to indicate that this

information is not available for HRS Respondents in these waves.

## Cross Wave Differences in Original HRS Data

In Waves 1 and 2H, the question is asked in the Cognition section. In subsequent waves it is asked in the Expectations section. It always follows a question that asks the chance that the Respondent will live to be 75 or more. If Respondent responds "absolutely no chance" to that question, this question is skipped.

In Wave 1, the question asks: And how about the chances that you will live to be 85 or more?

In Waves 2H to 4, the question is: What is the percent chance that you will live to be 85 or more?

In Waves 2A, 3A and from Wave 5 forward, the question is changed to reflect the chance that Respondent will live about another 10 years. The question wording depends on Respondent's age: "What is the percent chance that you will live to be (80, 85, 90, 95, or 100) or more?" In Waves 2A, 3A, 5, 6, and 7 if Respondent is 69 or less, it uses 80; if 70-74 it uses 85; if 75-79 it uses 90; if 80-84 it uses 95; and if 85-89 it uses 100. In Wave 8 if Respondent is under 65, it uses 85; if 65-69 it uses 80; if 70-74 it uses 85; if 75-79 it uses 90; if 80-84 it uses 95; and if 85-89 it uses 100.

In Wave 1, the responses are on a scale of 0 to 10, with 0 meaning absolutely no chance and 10 meaning absolutely no chance. In subsequent waves responses are scaled from 0 to 100.

In all waves, the question is skipped if the interview is by proxy. In Waves 2H and 3H, this question is skipped if Respondent is older than age 75. In Wave 4, the documentation indicates that the question is skipped if Respondent is older than age 75, but in the data it appears that the question is skipped if Respondent is older than 65. In Wave 2A, 3A and 5, this question is skipped if Respondent is 90 or older.

For AHEAD Respondents in Waves 2A and 3A, the information for R2LIV85, R2LIV85P, R2LIV85R, R3LIV85, R3LIV85P, and R3LIV85R are not available.

For HRS Respondents in Waves 2H and 3H, the information for R2LIV10, R2LIV10P, R2LIV10R, R3LIV10, R3LIV10P, and R3LIV10R are not available.

## HRS Variables Used

HRS 1992:	
V5116	L8:FUTR:WILL LIVE TO 85+
AHEAD 1993:	
B114	A1. BIRTH YEAR
B1285	H7. EXPECT LIVE TO AGE
HRS 1994:	
W5840	C7.CHANCE LIVE TO 85
AHEAD 1995:	
D373	R BIRTH YEAR
D3788	H2.EXP:LIVE 5 YR
HRS 1996:	
E3821	H9. CHANCE LIVE TO 85
HRS 1998:	
F4607	H12. CHANCE LIVE TO 85
HRS 2000:	
G1101	A21Y1.R-CURRENT AGE
G5020	H12. CHANCE LIVE TO 85

G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HA019	R CURRENT AGE CALCULATION
HP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JA019	R CURRENT AGE CALCULATION
JP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KA019	R CURRENT AGE CALCULATION
KP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LA019	R CURRENT AGE CALCULATION
LP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MA019	R CURRENT AGE CALCULATION
MP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NA019	R CURRENT AGE CALCULATION
NP029	CHANCE R WILL LIVE TO 80/85/90/95/100
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OA019	R CURRENT AGE CALCULATION
OP029	CHANCE R WILL LIVE TO 80/85/90/95/100

### Change in Health: Self-reported Mortality Expectations

Wave	Variable	Label	Type
2	R2LIV75C	R2LIV75C:W2 Chg live 75+: R/LfTab ratio	Cont
3	R3LIV75C	R3LIV75C:W3 Chg live 75+: R/LfTab ratio	Cont
4	R4LIV75C	R4LIV75C:W4 Chg live 75+: R/LfTab ratio	Cont
5	R5LIV75C	R5LIV75C:W5 Chg live 75+: R/LfTab ratio	Cont
6	R6LIV75C	R6LIV75C:W6 Chg live 75+: R/LfTab ratio	Cont
7	R7LIV75C	R7LIV75C:W7 Chg live 75+: R/LfTab ratio	Cont
8	R8LIV75C	R8LIV75C:W8 Chg live 75+: R/LfTab ratio	Cont
9	R9LIV75C	R9LIV75C:W9 Chg live 75+: R/LfTab ratio	Cont
10	R10LIV75C	R10LIV75C:W10 Chg live 75+: R/LfTab ratio	Cont
11	R11LIV75C	R11LIV75C:W11 Chg live 75+: R/LfTab ratio	Cont
12	R12LIV75C	R12LIV75C:W12 Chg live 75+: R/LfTab ratio	Cont
2	S2LIV75C	S2LIV75C:W2 Chg live 75+: R/LfTab ratio	Cont
3	S3LIV75C	S3LIV75C:W3 Chg live 75+: R/LfTab ratio	Cont
4	S4LIV75C	S4LIV75C:W4 Chg live 75+: R/LfTab ratio	Cont
5	S5LIV75C	S5LIV75C:W5 Chg live 75+: R/LfTab ratio	Cont
6	S6LIV75C	S6LIV75C:W6 Chg live 75+: R/LfTab ratio	Cont
7	S7LIV75C	S7LIV75C:W7 Chg live 75+: R/LfTab ratio	Cont
8	S8LIV75C	S8LIV75C:W8 Chg live 75+: R/LfTab ratio	Cont
9	S9LIV75C	S9LIV75C:W9 Chg live 75+: R/LfTab ratio	Cont
10	S10LIV75C	S10LIV75C:W10 Chg live 75+: R/LfTab ratio	Cont
11	S11LIV75C	S11LIV75C:W11 Chg live 75+: R/LfTab ratio	Cont
12	S12LIV75C	S12LIV75C:W12 Chg live 75+: R/LfTab ratio	Cont
2	R2LIV85C	R2LIV85C:W2 Chg live 85+: R/LfTab ratio	Cont
3	R3LIV85C	R3LIV85C:W3 Chg live 85+: R/LfTab ratio	Cont
4	R4LIV85C	R4LIV85C:W4 Chg live 85+: R/LfTab ratio	Cont
2	S2LIV85C	S2LIV85C:W2 Chg live 85+: R/LfTab ratio	Cont
3	S3LIV85C	S3LIV85C:W3 Chg live 85+: R/LfTab ratio	Cont
4	S4LIV85C	S4LIV85C:W4 Chg live 85+: R/LfTab ratio	Cont
2	R2LIV8XC	R2LIV8XC:W2 Chg live 80-100: R/LfTab ratio	Cont
3	R3LIV8XC	R3LIV8XC:W3 Chg live 80-100: R/LfTab ratio	Cont
4	R4LIV8XC	R4LIV8XC:W4 Chg live 80-100: R/LfTab ratio	Cont
5	R5LIV8XC	R5LIV8XC:W5 Chg live 80-100: R/LfTab ratio	Cont
6	R6LIV8XC	R6LIV8XC:W6 Chg live 80-100: R/LfTab ratio	Cont
7	R7LIV8XC	R7LIV8XC:W7 Chg live 80-100: R/LfTab ratio	Cont
8	R8LIV8XC	R8LIV8XC:W8 Chg live 80-100: R/LfTab ratio	Cont
9	R9LIV8XC	R9LIV8XC:W9 Chg live 80-100: R/LfTab ratio	Cont
10	R10LIV8XC	R10LIV8XC:W10 Chg live 80-100: R/LfTab ratio	Cont
11	R11LIV8XC	R11LIV8XC:W11 Chg live 80-100: R/LfTab ratio	Cont
12	R12LIV8XC	R12LIV8XC:W12 Chg live 80-100: R/LfTab ratio	Cont
2	S2LIV8XC	S2LIV8XC:W2 Chg live 80-100: R/LfTab ratio	Cont
3	S3LIV8XC	S3LIV8XC:W3 Chg live 80-100: R/LfTab ratio	Cont
4	S4LIV8XC	S4LIV8XC:W4 Chg live 80-100: R/LfTab ratio	Cont
5	S5LIV8XC	S5LIV8XC:W5 Chg live 80-100: R/LfTab ratio	Cont
6	S6LIV8XC	S6LIV8XC:W6 Chg live 80-100: R/LfTab ratio	Cont
7	S7LIV8XC	S7LIV8XC:W7 Chg live 80-100: R/LfTab ratio	Cont
8	S8LIV8XC	S8LIV8XC:W8 Chg live 80-100: R/LfTab ratio	Cont
9	S9LIV8XC	S9LIV8XC:W9 Chg live 80-100: R/LfTab ratio	Cont
10	S10LIV8XC	S10LIV8XC:W10 Chg live 80-100: R/LfTab ratio	Cont
11	S11LIV8XC	S11LIV8XC:W11 Chg live 80-100: R/LfTab ratio	Cont
12	S12LIV8XC	S12LIV8XC:W12 Chg live 80-100: R/LfTab ratio	Cont
2	R2LIV75F	R2LIV75F:W2 Flag LIV75C, # prv iw	Categ
3	R3LIV75F	R3LIV75F:W3 Flag LIV75C, # prv iw	Categ
4	R4LIV75F	R4LIV75F:W4 Flag LIV75C, # prv iw	Categ
5	R5LIV75F	R5LIV75F:W5 Flag LIV75C, # prv iw	Categ
6	R6LIV75F	R6LIV75F:W6 Flag LIV75C, # prv iw	Categ
7	R7LIV75F	R7LIV75F:W7 Flag LIV75C, # prv iw	Categ
8	R8LIV75F	R8LIV75F:W8 Flag LIV75C, # prv iw	Categ
9	R9LIV75F	R9LIV75F:W9 Flag LIV75C, # prv iw	Categ
10	R10LIV75F	R10LIV75F:W10 Flag LIV75C, # prv iw	Categ
11	R11LIV75F	R11LIV75F:W11 Flag LIV75C, # prv iw	Categ

12	R12LIV75F	R12LIV75F:W12 Flag LIV75C, # prv iw	Categ
2	S2LIV75F	S2LIV75F:W2 Flag LIV75C, # prv iw	Categ
3	S3LIV75F	S3LIV75F:W3 Flag LIV75C, # prv iw	Categ
4	S4LIV75F	S4LIV75F:W4 Flag LIV75C, # prv iw	Categ
5	S5LIV75F	S5LIV75F:W5 Flag LIV75C, # prv iw	Categ
6	S6LIV75F	S6LIV75F:W6 Flag LIV75C, # prv iw	Categ
7	S7LIV75F	S7LIV75F:W7 Flag LIV75C, # prv iw	Categ
8	S8LIV75F	S8LIV75F:W8 Flag LIV75C, # prv iw	Categ
9	S9LIV75F	S9LIV75F:W9 Flag LIV75C, # prv iw	Categ
10	S10LIV75F	S10LIV75F:W10 Flag LIV75C, # prv iw	Categ
11	S11LIV75F	S11LIV75F:W11 Flag LIV75C, # prv iw	Categ
12	S12LIV75F	S12LIV75F:W12 Flag LIV75C, # prv iw	Categ
2	R2LIV85F	R2LIV85F:W2 Flag LIV85C, # prv iw	Categ
3	R3LIV85F	R3LIV85F:W3 Flag LIV85C, # prv iw	Categ
4	R4LIV85F	R4LIV85F:W4 Flag LIV85C, # prv iw	Categ
2	S2LIV85F	S2LIV85F:W2 Flag LIV85C, # prv iw	Categ
3	S3LIV85F	S3LIV85F:W3 Flag LIV85C, # prv iw	Categ
4	S4LIV85F	S4LIV85F:W4 Flag LIV85C, # prv iw	Categ
2	R2LIV8XF	R2LIV8XF:W2 Flag LIV8XC, # prv iw	Categ
3	R3LIV8XF	R3LIV8XF:W3 Flag LIV8XC, # prv iw	Categ
4	R4LIV8XF	R4LIV8XF:W4 Flag LIV8XC, # prv iw	Categ
5	R5LIV8XF	R5LIV8XF:W5 Flag LIV8XC, # prv iw	Categ
6	R6LIV8XF	R6LIV8XF:W6 Flag LIV8XC, # prv iw	Categ
7	R7LIV8XF	R7LIV8XF:W7 Flag LIV8XC, # prv iw	Categ
8	R8LIV8XF	R8LIV8XF:W8 Flag LIV8XC, # prv iw	Categ
9	R9LIV8XF	R9LIV8XF:W9 Flag LIV8XC, # prv iw	Categ
10	R10LIV8XF	R10LIV8XF:W10 Flag LIV8XC, # prv iw	Categ
11	R11LIV8XF	R11LIV8XF:W11 Flag LIV8XC, # prv iw	Categ
12	R12LIV8XF	R12LIV8XF:W12 Flag LIV8XC, # prv iw	Categ
2	S2LIV8XF	S2LIV8XF:W2 Flag LIV8XC, # prv iw	Categ
3	S3LIV8XF	S3LIV8XF:W3 Flag LIV8XC, # prv iw	Categ
4	S4LIV8XF	S4LIV8XF:W4 Flag LIV8XC, # prv iw	Categ
5	S5LIV8XF	S5LIV8XF:W5 Flag LIV8XC, # prv iw	Categ
6	S6LIV8XF	S6LIV8XF:W6 Flag LIV8XC, # prv iw	Categ
7	S7LIV8XF	S7LIV8XF:W7 Flag LIV8XC, # prv iw	Categ
8	S8LIV8XF	S8LIV8XF:W8 Flag LIV8XC, # prv iw	Categ
9	S9LIV8XF	S9LIV8XF:W9 Flag LIV8XC, # prv iw	Categ
10	S10LIV8XF	S10LIV8XF:W10 Flag LIV8XC, # prv iw	Categ
11	S11LIV8XF	S11LIV8XF:W11 Flag LIV8XC, # prv iw	Categ
12	S12LIV8XF	S12LIV8XF:W12 Flag LIV8XC, # prv iw	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2LIV75C	9483	-0.04	0.41	-1.7	1.7
R3LIV75C	8252	-0.01	0.40	-1.7	1.6
R4LIV75C	6679	-0.03	0.39	-1.6	1.6
R5LIV75C	7594	-0.01	0.36	-1.6	1.5
R6LIV75C	6336	-0.04	0.34	-1.5	1.5
R7LIV75C	5291	-0.04	0.34	-1.6	1.5
R8LIV75C	5979	-0.04	0.36	-1.5	1.5
R9LIV75C	4968	0.01	0.35	-1.6	1.6
R10LIV75C	4192	-0.06	0.35	-1.5	1.5
R11LIV75C	8374	-0.04	0.37	-1.5	1.5
R12LIV75C	7414	-0.01	0.36	-1.4	1.4
S2LIV75C	7151	-0.04	0.40	-1.7	1.7
S3LIV75C	6074	0.00	0.40	-1.7	1.6
S4LIV75C	4898	-0.04	0.38	-1.6	1.5

S5LIV75C	5650	-0.01	0.36	-1.6	1.5
S6LIV75C	4699	-0.04	0.34	-1.5	1.5
S7LIV75C	3889	-0.04	0.33	-1.6	1.5
S8LIV75C	4363	-0.04	0.34	-1.5	1.5
S9LIV75C	3539	0.01	0.34	-1.6	1.6
S10LIV75C	2939	-0.06	0.33	-1.5	1.4
S11LIV75C	5457	-0.04	0.35	-1.5	1.5
S12LIV75C	4762	-0.01	0.35	-1.4	1.4
R2LIV85C	9886	-0.07	0.86	-3.8	3.7
R3LIV85C	8981	0.02	0.83	-3.7	3.6
R4LIV85C	6564	-0.08	0.78	-3.6	3.4
S2LIV85C	7545	-0.08	0.86	-3.8	3.7
S3LIV85C	6773	0.03	0.82	-3.7	3.6
S4LIV85C	4826	-0.10	0.78	-3.6	3.4
R2LIV8XC	89	0.19	1.29	-1.6	7.6
R3LIV8XC	4728	0.04	2.58	-31.8	37.8
R4LIV8XC	50	-0.03	0.64	-1.5	1.3
R5LIV8XC	8202	-0.24	0.75	-3.8	14.3
R6LIV8XC	13088	-0.01	1.44	-31.6	21.9
R7LIV8XC	12570	0.02	1.33	-19.9	20.4
R8LIV8XC	14315	0.23	1.65	-15.1	33.4
R9LIV8XC	13345	0.20	2.12	-33.6	37.5
R10LIV8XC	12329	-0.01	1.97	-34.5	28.5
R11LIV8XC	16578	0.08	1.74	-28.5	31.7
R12LIV8XC	15525	0.05	1.69	-29.4	26.0
S2LIV8XC	86	0.19	1.30	-1.6	7.6
S3LIV8XC	2641	-0.00	2.42	-31.8	37.3
S4LIV8XC	38	-0.06	0.67	-1.5	1.2
S5LIV8XC	6069	-0.25	0.74	-3.8	13.1
S6LIV8XC	8741	-0.00	1.23	-31.6	18.1
S7LIV8XC	8271	-0.00	1.13	-19.8	20.4
S8LIV8XC	9392	0.21	1.44	-9.7	33.4
S9LIV8XC	8600	0.15	1.96	-33.6	34.5
S10LIV8XC	7816	-0.03	1.81	-34.5	28.1
S11LIV8XC	10344	0.06	1.64	-28.5	31.7
S12LIV8XC	9422	0.05	1.51	-29.4	24.8
R2LIV75F	9483	0.00	0.00	0.0	0.0
R3LIV75F	8252	0.03	0.16	0.0	1.0
R4LIV75F	6679	0.04	0.23	0.0	2.0
R5LIV75F	7594	0.03	0.22	0.0	3.0
R6LIV75F	6336	0.06	0.34	0.0	4.0
R7LIV75F	5291	0.04	0.32	0.0	5.0
R8LIV75F	5979	0.02	0.21	0.0	6.0
R9LIV75F	4968	0.03	0.20	0.0	5.0
R10LIV75F	4192	0.06	0.33	0.0	5.0
R11LIV75F	8374	0.02	0.22	0.0	7.0
R12LIV75F	7414	0.03	0.21	0.0	4.0
S2LIV75F	7151	0.00	0.00	0.0	0.0
S3LIV75F	6074	0.02	0.15	0.0	1.0
S4LIV75F	4898	0.03	0.21	0.0	2.0
S5LIV75F	5650	0.02	0.17	0.0	3.0
S6LIV75F	4699	0.05	0.30	0.0	4.0
S7LIV75F	3889	0.03	0.31	0.0	5.0



S8LIV75F	4363	0.02	0.19	0.0	6.0
S9LIV75F	3539	0.02	0.17	0.0	5.0
S10LIV75F	2939	0.04	0.26	0.0	4.0
S11LIV75F	5457	0.02	0.21	0.0	4.0
S12LIV75F	4762	0.02	0.18	0.0	4.0
R2LIV85F	9886	0.00	0.00	0.0	0.0
R3LIV85F	8981	0.03	0.16	0.0	1.0
R4LIV85F	6564	0.04	0.23	0.0	2.0
S2LIV85F	7545	0.00	0.00	0.0	0.0
S3LIV85F	6773	0.02	0.14	0.0	1.0
S4LIV85F	4826	0.03	0.20	0.0	2.0
R2LIV8XF	89	0.00	0.00	0.0	0.0
R3LIV8XF	4728	0.00	0.01	0.0	1.0
R4LIV8XF	50	0.04	0.20	0.0	1.0
R5LIV8XF	8202	0.04	0.27	0.0	3.0
R6LIV8XF	13088	0.04	0.29	0.0	4.0
R7LIV8XF	12570	0.04	0.29	0.0	5.0
R8LIV8XF	14315	0.03	0.23	0.0	6.0
R9LIV8XF	13345	0.04	0.28	0.0	7.0
R10LIV8XF	12329	0.05	0.37	0.0	8.0
R11LIV8XF	16578	0.03	0.27	0.0	8.0
R12LIV8XF	15525	0.03	0.25	0.0	8.0
S2LIV8XF	86	0.00	0.00	0.0	0.0
S3LIV8XF	2641	0.00	0.02	0.0	1.0
S4LIV8XF	38	0.05	0.23	0.0	1.0
S5LIV8XF	6069	0.03	0.22	0.0	3.0
S6LIV8XF	8741	0.03	0.26	0.0	4.0
S7LIV8XF	8271	0.03	0.29	0.0	5.0
S8LIV8XF	9392	0.02	0.19	0.0	6.0
S9LIV8XF	8600	0.02	0.22	0.0	7.0
S10LIV8XF	7816	0.04	0.35	0.0	8.0
S11LIV8XF	10344	0.02	0.23	0.0	5.0
S12LIV8XF	9422	0.02	0.19	0.0	6.0

## Categorical Variable Codes

Value	R2LIV75F	R3LIV75F	R4LIV75F	R5LIV75F	R6LIV75F	R7LIV75F
.M=Oth missing	1937	2712	14553	11985	11829	14838
.Q=Not applicable this wv	8222	7027	152			
0.Used IW-1	9483	8024	6496	7462	6095	5163
1.Used IW-2		228	120	82	172	79
2.Used IW-3			63	33	30	22
3.Used IW-4				17	23	14
4.Used IW-5					16	7
5.Used IW-6						6

Value	R8LIV75F	R9LIV75F	R10LIV75F	R11LIV75F	R12LIV75F
.M=Oth missing	12490	12249	17842	12180	11333
0.Used IW-1	5899	4837	4044	8273	7242
1.Used IW-2	48	118	84	48	147
2.Used IW-3	23	10	52	30	15
3.Used IW-4	6	2	6	21	6
4.Used IW-5	1		4	1	4
5.Used IW-6	1	1	2		
6.Used IW-7	1				
7.Used IW-8				1	

Value	S2LIV75F	S3LIV75F	S4LIV75F	S5LIV75F	S6LIV75F	S7LIV75F
.M=Oth missing	1588	2232	9027	7080	6940	9083
.Q=Not applicable this wv	4549	3704	53			
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	384	323	537	311	220	380
0.Used IW-1	7151	5937	4790	5583	4553	3821
1.Used IW-2		137	73	43	107	37
2.Used IW-3			35	19	18	13
3.Used IW-4				5	13	7
4.Used IW-5					8	6
5.Used IW-6						5

Value	S8LIV75F	S9LIV75F	S10LIV75F	S11LIV75F	S12LIV75F
.M=Oth missing	7372	7107	10574	7031	6265
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	4312	3478	2857	5394	4682
1.Used IW-2	30	54	50	29	66
2.Used IW-3	16	6	28	18	9
3.Used IW-4	4		3	15	3
4.Used IW-5			1	1	2
5.Used IW-6		1			
6.Used IW-7	1				

Value	R2LIV85F	R3LIV85F	R4LIV85F
.M=Oth missing	1534	1983	8869
.Q=Not applicable this wv	8222	7027	5951
0.Used IW-1	9886	8745	6384
1.Used IW-2		236	122
2.Used IW-3			58

Value	S2LIV85F	S3LIV85F	S4LIV85F
.M=Oth missing	1194	1533	6352
.Q=Not applicable this wv	4549	3704	2800
.U=Unmarried	5970	5658	6869
.V=Spouse NR	384	323	537
0.Used IW-1	7545	6628	4720
1.Used IW-2		145	75
2.Used IW-3			31

Value	R2LIV8XF	R3LIV8XF	R4LIV8XF	R5LIV8XF	R6LIV8XF	R7LIV8XF
.M=Oth missing	8133	2299	5901	11377	5077	7559
.Q=Not applicable this wv	11420	10964	15433			
0.Used IW-1	89	4727	48	7975	12758	12306
1.Used IW-2		1	2	141	210	170
2.Used IW-3				62	64	38
3.Used IW-4				24	36	29
4.Used IW-5					20	18
5.Used IW-6						9

Value	R8LIV8XF	R9LIV8XF	R10LIV8XF	R11LIV8XF	R12LIV8XF
.M=Oth missing	4154	3872	9705	3976	3222
0.Used IW-1	14086	13024	11998	16313	15222
1.Used IW-2	139	229	172	154	228
2.Used IW-3	67	47	86	54	41
3.Used IW-4	10	32	36	39	18
4.Used IW-5	7	5	19	9	9
5.Used IW-6	4	3	11	3	2
6.Used IW-7	2	3	4	1	4
7.Used IW-8		2	1	2	
8.Used IW-9			2	3	1

Value	S2LIV8XF	S3LIV8XF	S4LIV8XF	S5LIV8XF	S6LIV8XF	S7LIV8XF
.M=Oth missing	4263	968	2762	6661	2898	4701
.Q=Not applicable this wv	9123	8629	11178			
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	95	537	311	220	380
0.Used IW-1	86	2640	36	5949	8549	8137
1.Used IW-2		1	2	75	128	80
2.Used IW-3				36	34	20
3.Used IW-4				9	21	13
4.Used IW-5					9	13
5.Used IW-6						8

Value	S8LIV8XF	S9LIV8XF	S10LIV8XF	S11LIV8XF	S12LIV8XF
.M=Oth missing	2343	2046	5697	2144	1605
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Used IW-1	9283	8452	7639	10196	9292
1.Used IW-2	66	114	91	90	97
2.Used IW-3	35	20	47	26	19
3.Used IW-4	6	7	18	24	8
4.Used IW-5		3	12	7	5
5.Used IW-6		3	4	1	
6.Used IW-7	2		3		1
7.Used IW-8		1			
8.Used IW-9			2		

## How Constructed

The change in health measures were chosen for their consistency across waves. They include measures of overall health, functional limitation summaries, doctor-diagnosed health conditions, and assessment of mortality measures.

They are calculated as the current wave less the previous interview measures. If Respondent missed an interview due to non-response, the change is between the current and the last interview that Respondent did respond to. A flag for each change variable indicates how many interviews were missed prior to the current.

For further discussion of the Change in Health variables see the section titled "Health Change" in the introductory section of this document.

RwLIV75C, RwLIV85C, and RwLIV8XC measure changes in the Respondent's self-reported probability of living to age 75, 85, and an age from 80 to 100, respectively, relative to the probabilities implied by Vital Statistics life tables.

At all waves except Waves 2A and 3A, questions ask the Respondent the probability of living to age 75. In Waves 1, 2H, 3H, and 4, questions also ask the Respondent the probability of living to age 85. For Wave 2A, 3A and from Wave 5 forward the question asks the self-reported probability of living about another 10 years, and the name of the variables (RwLIV10) reflects this change. For Respondents who are under 70 years old at the particular wave, RwLIV10 is the self-reported probability of living to age 80; for those 70 to 74, it is the probability of living to age 85; and so on. In Wave 8, the target age for those under 65 years old is 85.

Based on the Respondent's age and gender, a standard probability of living to 75 and 85, or, in Waves 2A, 3A, and from Wave 5 on, the target age in the question, is derived from the Vital Statistics life tables. RwLIV75R, RwLIV85R (for waves 1, 2H, 3H, and 4) and RwLIV10R (for Waves 2A, 3A, and 5) are the ratios between the self-reported and standard probability, and are derived as the self-report divided by the standard. The change variables are RwLIV75C, RwLIV85C, and RwLIV8XC. RwLIV85C is used when the change is measured between two RwLIV85R variables, and RwLIV8XC is used when the change measure uses any RwLIV10R variable in its derivation. The variables are derived as:

$RwLIV75C = RwLIV75R - RpLIV75R$

$RwLIV85C = RwLIV85R - RpLIV85R$ , when both w and p are Wave 1, 2H, 3H, or 4

$RwLIV8XC = RwLIV10R - RpLIV85R$ , when w is Wave 2A, 3A, or 5 and p is Wave 1, 2H, 3H, or 4

$RwLIV8XC = RwLIV10R - RpLIV10R$ , when both w and p are Wave 2A, 3A or 5

$RwLIV8XC = RwLIV85R - RpLIV10R$ , when w is Wave 4 and p is Wave 2A or 3A

where "w" means current wave and "p" means the previous interview. For example, if an individual responded to Waves 2H and 3H,  $R3LIV75C = R3LIV75R - R2LIV75R$ . Because of the wording difference in Waves 2A, 3A, and 5, the change measure  $RwLIV8XC$  is not very consistent and perhaps not useful.

Not all individuals respond to every interview. Respondents may miss one or more interviews between those they complete.  $RwLIV75F$ ,  $RwLIV85F$ , and  $RwLIV8XF$  indicate if there are any missed interviews prior to the current, and if so, how many. In other words, they indicate how far back the previous interview is, from which the change is measured. Their codes are: 0) did not miss the previous interview; change = current - [current-1]; 1) missed the previous interview, but only one; change = current - [current-2]; 2) missed the two previous interviews; change = current - [current-3]; 3) missed the three previous interviews; change = current - [current-4], and so on. If either the current or previous interview measure is missing, change is missing and the flag is set to .M.

For AHEAD entry cohort Respondents in Waves 2 and 3 (2A and 3A),  $RwLIV75C$ ,  $RwLIV75F$ ,  $RwLIV85C$ , and  $RwLIV85F$  are set to .Q to indicate that the information is not available for these Respondents.  $R4LIV75C$ ,  $R4LIV75F$ ,  $R4LIV85C$ , and  $R4LIV85F$  are also set to .Q, since there is no prior wave  $RwLIV85R$  available to derive these in Wave 4.

For HRS entry cohort Respondents in Waves 2 and 3 (2H and 3H),  $RwLIV8XC$  and  $RwLIV8XF$  are set to .Q to indicate that the information is not applicable for these Respondents.  $R4LIV8XC$  and  $R4LIV8XF$  are also set to .Q, since for these Respondents no prior wave  $RwLIV10R$  variable is available.  $RwLIV85C$  and  $RwLIV85F$  variables are available instead.

$SwLIV75C$ ,  $SwLIV85C$ ,  $SwLIV75F$ ,  $SwLIV85F$ , and  $SwLIV8XF$  are this information for the Respondent's spouse or partner. The spouse variables are taken from the Wave "w" spouse's self-reported information, e.g.,  $S3LIV75C$  is taken from the Wave 3 spouse's  $R3LIV75C$ .

Please see the section on "Self-reported probability of living to age 75" and "Self-reported probability of living to age 85" in section I, "Retirement Plans, Expectations" for a description of the variables from which this change variable is derived.

## General Comments

Questions about probability of living to a given age vary between the AHEAD and HRS entry cohorts in Waves 2 and 3, due to the difference in the age of the Respondents. Thus AHEAD Respondents are not asked about living to age 75, since most of them are close to or past that age at the first interview. So for the AHEAD entry cohort in Waves 2A and 3A,  $RwLIV75$  and related variables ( $RwLIV75R$ ,  $RwLIV75C$ , and  $RwLIV75F$ ) are set to .Q to indicate that the information is not available. If an AHEAD Respondent is 75 or younger,  $RwLIV75P$  is set for them; if older than 75,  $RwLIV75P$  is set to 100.

In Waves 1, 2H, 3H, and 4 questions ask the Respondent the probability of living to age 85. In Wave 4, few of the AHEAD Respondents are young enough to be asked this question. To accommodate older Respondents, in Waves 2A, 3A, and from Wave 5 forward the question does not always ask the probability of living to age 85, but asks the probability of living to an age from 80 to 100, depending on the Respondent's age. From Wave 5 on, the wording depends on the Respondent's age at the interview. In Waves 2A and 3A, the wording depends on birth year and is the same in both waves, even though Respondents are usually two years older in Wave 3A. So the age used to determine question wording, in these waves, is age in 1993.

These two different versions of the variables are named differently to alert the user to the inconsistencies in the questions. The Wave 1, 2H, 3H, and 4 variables are named `RwLIV85`, `RwLIV85P`, and `RwLIV85R`, while the Wave 2A, 3A, and from Wave 5 forward variables are named `RwLIV10` (for 10 or so more years), `RwLIV10P`, and `RwLIV10R`. Changes in these probabilities from those given in a previous wave are used to measure change in health status in variables `RwLIV75C`, `RwLIV85C`, and `R2LIV8XC`. If the change uses `RwLIV10R` in the current or previous wave, then it is assigned to `RwLIV8XC`. If it uses `RwLIV85R` in both waves, it is assigned to `RwLIV85C`.

For AHEAD Respondents in Waves 2 and 3 (2A and 3A), `RwLIV85`, `RwLIV85P`, `RwLIV85R`, `RwLIV85C`, and `RwLIV85F` are set to `.Q` to indicate that this information is unavailable for this cohort in these waves. In addition `R4LIV85C` and `R4LIV85F` are set to `.Q` for these cases, since the information is not available from a prior wave.

For HRS Respondents in Waves 2 and 3 (2H and 3H), `RwLIV10`, `RwLIV10P`, `RwLIV10R`, `RwLIV8XC`, and `RwLIV8XF` are set to `.Q` to indicate that these are inapplicable or unavailable for this cohort in these waves. In addition `R4LIV8XC` and `R4LIV8XF` are set to `.Q` for these cases, since the prior wave information is completely based on `RwLIV85` information.

### **Cross Wave Differences in Original HRS Data**

Please see the documentation of the variables used to derive these change-in-health variables for a description of cross-wave differences in the raw HRS data.

**Categorical risk aversion: based on the set of "income gamble" questions**

Wave	Variable	Label	Type
1	R1RISK	R1RISK:W1 R Income Risk Aversion	Categ
4	R4RISK	R4RISK:W4 R Income Risk Aversion	Categ
5	R5RISK	R5RISK:W5 R Income Risk Aversion	Categ
6	R6RISK	R6RISK:W6 R Income Risk Aversion	Categ
7	R7RISK	R7RISK:W7 R Income Risk Aversion	Categ
8	R8RISK	R8RISK:W8 R Income Risk Aversion	Categ
1	S1RISK	S1RISK:W1 S Income Risk Aversion	Categ
4	S4RISK	S4RISK:W4 S Income Risk Aversion	Categ
5	S5RISK	S5RISK:W5 S Income Risk Aversion	Categ
6	S6RISK	S6RISK:W6 S Income Risk Aversion	Categ
7	S7RISK	S7RISK:W7 S Income Risk Aversion	Categ
8	S8RISK	S8RISK:W8 S Income Risk Aversion	Categ
4	R4RISK6	R4RISK6:W4 R Income Risk Avers/6-categ	Categ
5	R5RISK6	R5RISK6:W5 R Income Risk Avers/6-categ	Categ
6	R6RISK6	R6RISK6:W6 R Income Risk Avers/6-categ	Categ
7	R7RISK6	R7RISK6:W7 R Income Risk Avers/6-categ	Categ
8	R8RISK6	R8RISK6:W8 R Income Risk Avers/6-categ	Categ
4	S4RISK6	S4RISK6:W4 S Income Risk Avers/6-categ	Categ
5	S5RISK6	S5RISK6:W5 S Income Risk Avers/6-categ	Categ
6	S6RISK6	S6RISK6:W6 S Income Risk Avers/6-categ	Categ
7	S7RISK6	S7RISK6:W7 S Income Risk Avers/6-categ	Categ
8	S8RISK6	S8RISK6:W8 S Income Risk Avers/6-categ	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RISK	11707	3.28	1.09	1.0	4.0
R4RISK	5149	3.25	1.09	1.0	4.0
R5RISK	1375	3.31	1.07	1.0	4.0
R6RISK	6141	3.29	1.06	1.0	4.0
R7RISK	2974	3.28	1.05	1.0	4.0
R8RISK	6443	3.32	1.04	1.0	4.0
S1RISK	9086	3.29	1.08	1.0	4.0
S4RISK	3599	3.26	1.08	1.0	4.0
S5RISK	865	3.31	1.05	1.0	4.0
S6RISK	4580	3.27	1.07	1.0	4.0
S7RISK	2070	3.30	1.04	1.0	4.0
S8RISK	4734	3.34	1.02	1.0	4.0
R4RISK6	5117	4.64	1.59	1.0	6.0
R5RISK6	1359	4.73	1.54	1.0	6.0
R6RISK6	6093	4.66	1.54	1.0	6.0
R7RISK6	2956	4.64	1.51	1.0	6.0
R8RISK6	6414	4.70	1.48	1.0	6.0
S4RISK6	3582	4.64	1.55	1.0	6.0
S5RISK6	859	4.71	1.51	1.0	6.0
S6RISK6	4546	4.63	1.54	1.0	6.0
S7RISK6	2058	4.66	1.49	1.0	6.0
S8RISK6	4712	4.72	1.45	1.0	6.0

## Categorical Variable Codes

Value	R1RISK	R4RISK	R5RISK	R6RISK	R7RISK
.A=65+,not asked				9467	
.B=Skip, not selected		8631	15927		
.C=Cohort skipped		4984			15198
.D=DK	109	304	144	360	96
.M=Oth missing	194	123	3	24	15
.R=RF		150	68	137	44
.S=Skip,proxy IW	642	2043	2062	2036	1802
1.Least risk averse	1503	705	171	752	361
2.3rd most risk averse	1279	483	122	590	271
3.2nd most risk averse	1358	773	196	954	519
4.Most risk averse	7567	3188	886	3845	1823

Value	R8RISK
.A=65+,not asked	10380
.D=DK	297
.M=Oth missing	28
.R=RF	61
.S=Skip,proxy IW	1260
1.Least risk averse	713
2.3rd most risk averse	628
3.2nd most risk averse	980
4.Most risk averse	4122

Value	S1RISK	S4RISK	S5RISK	S6RISK	S7RISK
.A=65+,not asked				5368	
.B=Skip, not selected		6306	10358		
.C=Cohort skipped		2365			9616
.D=DK	77	148	59	233	57
.M=Oth missing	126	76		13	3
.R=RF		77	38	86	23
.S=Skip,proxy IW	611	1407	1410	1359	1203
.U=Unmarried	2373	6869	6538	6306	6777
.V=Spouse NR	379	537	311	220	380
1.Least risk averse	1128	475	106	564	242
2.3rd most risk averse	988	337	69	464	172
3.2nd most risk averse	1088	577	139	733	376
4.Most risk averse	5882	2210	551	2819	1280

Value	S8RISK
.A=65+,not asked	5948
.D=DK	201
.M=Oth missing	17
.R=RF	43
.S=Skip,proxy IW	792
.U=Unmarried	6417
.V=Spouse NR	317
1.Least risk averse	497
2.3rd most risk averse	455
3.2nd most risk averse	741
4.Most risk averse	3041



Value	R4RISK6	R5RISK6	R6RISK6	R7RISK6
.A=65+,not asked			9467	
.B=Skip,not selected	8631	15927		
.C=Cohort skipped	4984			15198
.D=DK	335	160	406	113
.M=Oth missing	123	3	24	15
.R=RF	151	68	139	45
.S=Skip, proxy IW	2043	2062	2036	1802
1.Least risk averse	323	71	363	157
2.2nd least risk averse	375	95	378	199
3.3rd least risk averse	483	122	590	271
4.3rd most risk averse	773	196	954	519
5.2nd most risk averse	863	239	1160	601
6.Most risk averse	2300	636	2648	1209

Value	R8RISK6
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.A=65+,not asked	10380
.D=DK	325
.M=Oth missing	28
.R=RF	62
.S=Skip, proxy IW	1260
1.Least risk averse	283
2.2nd least risk averse	426
3.3rd least risk averse	628
4.3rd most risk averse	980
5.2nd most risk averse	1349
6.Most risk averse	2748

Value	S4RISK6	S5RISK6	S6RISK6	S7RISK6
.A=65+,not asked			5368	
.B=Skip,not selected	6306	10358		
.C=Cohort skipped	2365			9616
.D=DK	165	65	265	68
.M=Oth missing	76		13	3
.R=RF	77	38	88	24
.S=Skip, proxy IW	1407	1410	1359	1203
.U=Unmarried	6869	6538	6306	6777
.V=Spouse NR	537	311	220	380
1.Least risk averse	196	40	273	105
2.2nd least risk averse	275	66	284	133
3.3rd least risk averse	337	69	464	172
4.3rd most risk averse	577	139	733	376
5.2nd most risk averse	633	159	883	427
6.Most risk averse	1564	386	1909	845

Value	S8RISK6
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.A=65+,not asked	5948
.D=DK	222
.M=Oth missing	17
.R=RF	44
.S=Skip, proxy IW	792
.U=Unmarried	6417
.V=Spouse NR	317
1.Least risk averse	192
2.2nd least risk averse	303
3.3rd least risk averse	455
4.3rd most risk averse	741
5.2nd most risk averse	1029
6.Most risk averse	1992

## How Constructed

In these questions Respondent is asked to choose between pairs of jobs where one guarantees current family income and the other offers a chance to increase income but also carries the risk of loss of income. If Respondent says s/he would take the risk, the same scenario but with riskier odds is presented. If Respondent says s/he would not take the risk, the same scenario with less risky odds is asked.

In Wave 1, the pair of jobs presented are a hypothetical current job and a new one. From Wave 4 forward, the pair of jobs presented are both new jobs, given that Respondent will need to move and find a new job. These questions are not asked in Waves 2 and 3.

The variable RWRISK is set using the following four levels, listed from least to most risk-averse:

1. Respondent would take a job with even chances of doubling income or cutting it in half.
2. Respondent would take a job with even chances of doubling income or cutting it by a third.
3. Respondent would take a job with even chances of doubling income or cutting it 20%.
4. Respondent would take or stay in the job that guaranteed current income given any of the above alternatives.

From Waves 4 forward, additional questions are asked that allow two more categories:

- 1a. Less risk-averse than 1 above: Respondent would take a job with even chances of doubling income or cutting it by 75%.
- 4a. Between categories 3 and 4 above: Respondent would take a job with even chances of doubling income or cutting it by 10%.

These additional categories are used to derive RWRISK6. To allow comparison with Wave 1, RWRISK6 is recoded to the 4-category RWRISK variable. Respondents in category 1a are considered least risk-averse and those in 3a are considered most risk-averse in RWRISK. Thus codes 1 and 2 in RWRISK6 variable correspond to 1, codes 5 and 6 in RWRISK6 correspond to 4, and, codes 3 and 4 in RWRISK6 correspond to 2 and 3, respectively, in RWRISK.

These questions are not asked if the interview is by proxy. RWRISK and RWRISK6 are set to .S for proxy interviews.

From Wave 4 forward, Respondents are selected to answer these questions or not, based on a combination of their cohort, age, and/or random selection. Please see the "Cross-Wave Differences" for the variations across waves. If Respondent is not asked these questions by interview design, then RWRISK and RWRISK6 are set to .A, .B, or .C if skipped because of age, random selection, or cohort, respectively.

The spouse variable is taken from the Wave 1 spouse's self-report, i.e., from the spouse's R1RISK.

## Cross Wave Differences in Original HRS Data

In wave 1 the question wording is: "Suppose that you are the only income earner in the family, and you have a good job guaranteed to give you your current (family) income every year for life. You are given the opportunity to take a new and equally good job, with a 50-50 chance it will double your (family) income and a 50-50 chance that it will cut your (family) income by a third. Would you take the new job?"

If yes, then: "Suppose the chances were 50-50 that it would double your (family) income, and 50-50 that it would cut it in half. Would you still take the new job?"

If no, then: "Suppose the chances were 50-50 that it would double your (family) income and 50-50 that it would cut it by 20 percent. Would you then take the new job?"

In Waves 2 and 3, these questions are not asked.

From Wave 4 forward the question wording is: "Suppose that you are the only income earner in the family. Your doctor recommends that you move because of allergies, and you have to choose between two possible jobs. The first would guarantee your current total family income for life. The second is possibly better paying, but the income is also less certain. There is a 50-50 chance the second job would double your total lifetime income and a 50-50 chance that it would cut it by a third. Which job would you take – the first job or the second job?"

If first job is chosen in the first question, then: "Suppose the chances were 50-50 that the second job would double your lifetime income and 50-50 that it would cut it by twenty percent. Would you take the first job or the second job?"

If first job is chosen in the second question again, then: "Suppose the chances were 50-50 that the second job would double your lifetime income and 50-50 that it would cut it by 10 percent. Would you take the first job or the second job?"

If second job is chosen in the first question, then: "Suppose the chances were 50-50 that the second job would double your lifetime income, and 50-50 that it would cut it in half. Would you take the first job or the second job?"

If second job is chosen in the second question again, then: "Suppose the chances were 50-50 that the second job would double your lifetime income and 50-50 that it would cut it by seventy-five percent. Would you take the first job or the second job?"

In all waves these questions are skipped if the interview is by proxy. Otherwise the sample asked these questions varies across waves.

In Wave 1, all self-reporting Respondents are asked these questions.

In Wave 4, AHEAD cohort Respondents are not asked, but all self-reporting CODA and War Babies Respondents are, along with all new HRS cohort spouses. One of ten HRS cohort Respondents is also randomly selected for these questions.

In Wave 5, the questionnaire indicates that Respondents are selected based on whether they were asked the question in 1998 and their experimental module assignment in 1996, in addition to random selection among those under 65. But the criteria involving 1998 and 1996 does not appear to be accurate, nor is the selection based on age. It appears instead that one of twelve Respondents is randomly selected for these questions, regardless of age. All entry cohort subsamples are eligible for selection.

In Waves 6 and 8 if person is 65 or older the questions are skipped. Otherwise, all other self-reporting Respondents are asked these questions.

In Wave 7 only the new EBB cohort is asked the questions.

In Wave 9 and forward, these questions are not asked.

**HRS Variables Used**

HRS 1992:	
V5122	L14:TAKE CHANCE NEW JOB
V5123	L14A:B:CHANCE NEW JOB
HRS 1998:	
F4560	RISK AVERSION RANDOM NUMBER
F4614	H18. RISK AVERSION-1
F4615	H18A. RISK AVERSION-2
F4616	H18B. RISK AVERSION-3
F4617	H18C. RISK AVERSION-4
F4618	H18D. RISK AVERSION-5
HRS 2000:	
G220	PR220.PREV WAVE MODULE # - UPDATED
G5027	H18. RISK AVERSION-1
G5033	H18A. RISK AVERSION-2
G5034	H18B. RISK AVERSION-3
G5035	H18C. RISK AVERSION-4
G5036	H18D. RISK AVERSION-5
HRS 2002:	
HP036	RISK AVERSION ON THE JOB - 1
HP037	RISK AVERSION ON THE JOB - 2
HP038	RISK AVERSION ON THE JOB - 3
HP039	RISK AVERSION ON THE JOB - 4
HP040	RISK AVERSION ON THE JOB - 5
HRS 2004:	
JP036	RISK AVERSION ON THE JOB - 1
JP037	RISK AVERSION ON THE JOB - 2
JP038	RISK AVERSION ON THE JOB - 3
JP039	RISK AVERSION ON THE JOB - 4
JP040	RISK AVERSION ON THE JOB - 5
HRS 2006:	
KP036	RISK AVERSION ON THE JOB - 1
KP037	RISK AVERSION ON THE JOB - 2
KP038	RISK AVERSION ON THE JOB - 3
KP039	RISK AVERSION ON THE JOB - 4
KP040	RISK AVERSION ON THE JOB - 5

<b>Financial planning horizon</b>
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Wave	Variable	Label	Type
1	R1FINPLN	R1FINPLN:W1 R Financial planning horizon	Categ
4	R4FINPLN	R4FINPLN:W4 R Financial planning horizon	Categ
5	R5FINPLN	R5FINPLN:W5 R Financial planning horizon	Categ
6	R6FINPLN	R6FINPLN:W6 R Financial planning horizon	Categ
7	R7FINPLN	R7FINPLN:W7 R Financial planning horizon	Categ
8	R8FINPLN	R8FINPLN:W8 R Financial planning horizon	Categ
11	R11FINPLN	R11FINPLN:W11 R Financial planning horizon	Categ
12	R12FINPLN	R12FINPLN:W12 R Financial planning horizon	Categ
1	S1FINPLN	S1FINPLN:W1 S Financial planning horizon	Categ
4	S4FINPLN	S4FINPLN:W4 S Financial planning horizon	Categ
5	S5FINPLN	S5FINPLN:W5 S Financial planning horizon	Categ
6	S6FINPLN	S6FINPLN:W6 S Financial planning horizon	Categ
7	S7FINPLN	S7FINPLN:W7 S Financial planning horizon	Categ
8	S8FINPLN	S8FINPLN:W8 S Financial planning horizon	Categ
11	S11FINPLN	S11FINPLN:W11 S Financial planning horizon	Categ
12	S12FINPLN	S12FINPLN:W12 S Financial planning horizon	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1FINPLN	11626	2.98	1.23	1.0	5.0
R4FINPLN	5255	3.18	1.29	1.0	5.0
R5FINPLN	1451	3.10	1.26	1.0	5.0
R6FINPLN	6323	3.15	1.24	1.0	5.0
R7FINPLN	17004	2.97	1.27	1.0	5.0
R8FINPLN	16205	3.02	1.25	1.0	5.0
R11FINPLN	9259	3.10	1.33	1.0	5.0
R12FINPLN	13843	3.14	1.29	1.0	5.0
S1FINPLN	9051	3.04	1.20	1.0	5.0
S4FINPLN	3630	3.29	1.22	1.0	5.0
S5FINPLN	907	3.17	1.23	1.0	5.0
S6FINPLN	4704	3.22	1.21	1.0	5.0
S7FINPLN	11174	3.09	1.23	1.0	5.0
S8FINPLN	10463	3.17	1.20	1.0	5.0
S11FINPLN	6084	3.15	1.29	1.0	5.0
S12FINPLN	8437	3.23	1.25	1.0	5.0

## Categorical Variable Codes

Value	R1FINPLN	R4FINPLN	R5FINPLN	R6FINPLN	R7FINPLN
.A=65+,not asked				9467	
.B=Skip,not selected		8631	15927		
.C=Cohort skipped		4984			
.D=DK	147	272	108	260	1074
.M=Oth missing	238	123	3	24	80
.R=RF		76	28	55	169
.S=Skip, proxy IW	641	2043	2062	2036	1802
1.Next few months	2187	902	254	989	3235
2.Next year	1257	515	167	738	2416
3.Next few years	3832	1301	378	1733	4808
4.Next 5-10 years	3317	1803	487	2081	4746
5.Longer than 10 years	1033	734	165	782	1799

Value	R8FINPLN	R11FINPLN	R12FINPLN
.A=65+,not asked		9847	2363
.D=DK	879	157	388
.M=Oth missing	18	26	34
.P=Answered prev wv			936
.R=RF	107	33	81
.S=Skip, proxy IW	1260	1146	1049
.X=Can not do Prob Q		86	53
1.Next few months	2821	1730	2289
2.Next year	2312	1134	1743
3.Next few years	4463	2276	3694
4.Next 5-10 years	4893	2719	4042
5.Longer than 10 years	1716	1400	2075

Value	S1FINPLN	S4FINPLN	S5FINPLN	S6FINPLN	S7FINPLN
.A=65+,not asked				5368	
.B=Skip,not selected		6306	10358		
.C=Cohort skipped		2365			
.D=DK	90	162	42	161	489
.M=Oth missing	149	76		13	27
.R=RF		32	13	34	79
.S=Skip, proxy IW	610	1407	1410	1359	1203
.U=Unmarried	2373	6869	6538	6306	6777
.V=Spouse NR	379	537	311	220	380
1.Next few months	1523	497	140	627	1741
2.Next year	980	326	100	526	1488
3.Next few years	3029	950	241	1329	3247
4.Next 5-10 years	2688	1329	320	1616	3433
5.Longer than 10 years	831	528	106	606	1265

Value	S8FINPLN	S11FINPLN	S12FINPLN
.A=65+,not asked		5583	1228
.D=DK	425	96	180
.M=Oth missing	5	7	18
.P=Answered prev wv			515
.R=RF	50	19	32
.S=Skip, proxy IW	792	649	589
.U=Unmarried	6417	7474	7127
.V=Spouse NR	317	592	593
.X=Can not do Prob Q		50	28
1.Next few months	1420	1008	1184
2.Next year	1315	733	965
3.Next few years	3019	1565	2344
4.Next 5-10 years	3501	1868	2628
5.Longer than 10 years	1208	910	1316

## How Constructed

RwFINPLN is derived from the question: In planning your family's saving and spending, which time period is most important to you? RwFINPLN simply recodes missings from the HRS variable. It is set to .S if skipped because the interview is by proxy.

In Waves 4 and 5, Respondents are selected to answer this question or not, based on a combination of their cohort and random selection. If Respondent is not asked this question by interview design, then RwFINPLN is set to .B or .C, indicating selection based on random selection or cohort, respectively.

In Waves 6, 11 and 12, this question generally is not asked if Respondent is 65 or older. If skipped due to Respondent's age, RwFINPLN is set to .A.

In Waves 11 and 12, Respondents who had difficulty with the first few probabilities in the Expectations module skip these questions and are coded as .X (see RwANS3PQ variable).

The spouse variable is taken from the Wave "w" spouse's self-report, i.e., from the spouse's RwFINPLN.

## Cross Wave Differences in Original HRS Data

In all waves, this question is skipped if the interview is by proxy. Otherwise the sample asked this question varies across waves.

In Wave 1, all self-reporting Respondents are asked this question.

In Waves 2 and 3, these questions are not asked.

In Wave 4, AHEAD cohort Respondents are not asked, but all self-reporting CODA and War Babies Respondents are, along with all new HRS cohort spouses. One of ten HRS cohort Respondents is also randomly selected for these questions.

In Wave 5, the questionnaire indicates that Respondents are selected based on whether they were asked the question in 1998 and their experimental module assignment in 1996, in addition to random selection among those under 65. But the criteria involving 1998 and 1996 does not appear to be accurate, nor is the selection based on age. It appears instead that one of twelve Respondents is randomly selected for these questions, regardless of age. All entry cohort subsamples are eligible for selection.

In Wave 6, the questions are skipped if person is 65 or older. Otherwise, all other self-reporting Respondents are asked this question.

In Waves 7 and 8, all Respondents are asked this question.

In Waves 9 and 10, this question is not asked.

In Wave 11, this question generally is asked of self-reporting Respondents under age 65 who were able to answer the first three probability questions in the Expectations module.

In Wave 12, this question is asked of most self-reporting Respondents who were able to answer the first three probability questions in the Expectations module. In some cases, this question was skipped for Respondents 65 or older or Respondents

who answered question in Wave 11.

## HRS Variables Used

HRS 1992:	
V5124	L15:IMPORT FIN PLAN TIME
HRS 1998:	
F4560	RISK AVERSION RANDOM NUMBER
F4619	H19. PLANNING/SAVING/SPENDING
HRS 2000:	
G220	PR220.PREV WAVE MODULE # - UPDATED
G5037	H19. PLANNING/SAVING/SPENDING
HRS 2002:	
HP041	FAM FINANCIAL TIMELINE - SAVE/SPEND/PLAN
HRS 2004:	
JP041	FAM FINANCIAL TIMELINE - SAVE/SPEND/PLAN
HRS 2006:	
KP041	FAM FINANCIAL TIMELINE - SAVE/SPEND/PLAN
HRS 2012:	
NP041	FAM FINANCIAL TIMELINE - SAVE/SPEND/PLAN
HRS 2014:	
OP041	FAM FINANCIAL TIMELINE - SAVE/SPEND/PLAN



**Did Respondent respond to at least the first three probability questions**

Wave	Variable	Label	Type
3	R3ANS3PQ	R3ANS3PQ:W3 R answered the first three probability questions	Categ
4	R4ANS3PQ	R4ANS3PQ:W4 R answered the first three probability questions	Categ
5	R5ANS3PQ	R5ANS3PQ:W5 R answered the first three probability questions	Categ
6	R6ANS3PQ	R6ANS3PQ:W6 R answered the first three probability questions	Categ
7	R7ANS3PQ	R7ANS3PQ:W7 R answered the first three probability questions	Categ
8	R8ANS3PQ	R8ANS3PQ:W8 R answered the first three probability questions	Categ
9	R9ANS3PQ	R9ANS3PQ:W9 R answered the first three probability questions	Categ
10	R10ANS3PQ	R10ANS3PQ:W10 R answered the first three probability questions	Categ
11	R11ANS3PQ	R11ANS3PQ:W11 R answered the first three probability questions	Categ
12	R12ANS3PQ	R12ANS3PQ:W12 R answered the first three probability questions	Categ
3	S3ANS3PQ	S3ANS3PQ:W3 S answered the first three probability questions	Categ
4	S4ANS3PQ	S4ANS3PQ:W4 S answered the first three probability questions	Categ
5	S5ANS3PQ	S5ANS3PQ:W5 S answered the first three probability questions	Categ
6	S6ANS3PQ	S6ANS3PQ:W6 S answered the first three probability questions	Categ
7	S7ANS3PQ	S7ANS3PQ:W7 S answered the first three probability questions	Categ
8	S8ANS3PQ	S8ANS3PQ:W8 S answered the first three probability questions	Categ
9	S9ANS3PQ	S9ANS3PQ:W9 S answered the first three probability questions	Categ
10	S10ANS3PQ	S10ANS3PQ:W10 S answered the first three probability questions	Categ
11	S11ANS3PQ	S11ANS3PQ:W11 S answered the first three probability questions	Categ
12	S12ANS3PQ	S12ANS3PQ:W12 S answered the first three probability questions	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R3ANS3PQ	6110	0.95	0.21	0.0	1.0
R4ANS3PQ	19292	0.98	0.14	0.0	1.0
R5ANS3PQ	17483	0.98	0.15	0.0	1.0
R6ANS3PQ	16128	0.98	0.14	0.0	1.0
R7ANS3PQ	18270	0.99	0.12	0.0	1.0
R8ANS3PQ	17209	0.97	0.16	0.0	1.0
R9ANS3PQ	16060	0.98	0.14	0.0	1.0
R10ANS3PQ	20398	0.99	0.09	0.0	1.0
R11ANS3PQ	19359	0.99	0.12	0.0	1.0
R12ANS3PQ	17647	0.99	0.11	0.0	1.0
S3ANS3PQ	3179	0.97	0.17	0.0	1.0
S4ANS3PQ	12562	0.99	0.12	0.0	1.0
S5ANS3PQ	11315	0.98	0.13	0.0	1.0
S6ANS3PQ	10280	0.99	0.12	0.0	1.0
S7ANS3PQ	11746	0.99	0.09	0.0	1.0
S8ANS3PQ	10943	0.98	0.14	0.0	1.0
S9ANS3PQ	9985	0.98	0.13	0.0	1.0
S10ANS3PQ	12553	0.99	0.09	0.0	1.0
S11ANS3PQ	11830	0.99	0.10	0.0	1.0
S12ANS3PQ	10423	0.99	0.09	0.0	1.0

## Categorical Variable Codes

Value	R3ANS3PQ	R4ANS3PQ	R5ANS3PQ	R6ANS3PQ	R7ANS3PQ
.M=Oth missing	16	49	34	1	57
.Q=Not asked this wv	10964				
.S=Skip,question not asked	901	2043	2062	2036	1802
0.No	276	389	429	341	252
1.Yes	5834	18903	17054	15787	18018

Value	R8ANS3PQ	R9ANS3PQ	R10ANS3PQ	R11ANS3PQ	R12ANS3PQ
.M=Oth missing		17	254	49	51
.S=Skip,question not asked	1260	1140	1382	1146	1049
0.No	437	333	183	277	202
1.Yes	16772	15727	20215	19082	17445

Value	S3ANS3PQ	S4ANS3PQ	S5ANS3PQ	S6ANS3PQ	S7ANS3PQ
.M=Oth missing	4	9	5		23
.Q=Not asked this wv	8629				
.S=Skip,question not asked	426	1407	1410	1359	1203
.U=Unmarried	5658	6869	6538	6306	6777
.V=Spouse NR	95	537	311	220	380
0.No	93	188	193	139	105
1.Yes	3086	12374	11122	10141	11641

Value	S8ANS3PQ	S9ANS3PQ	S10ANS3PQ	S11ANS3PQ	S12ANS3PQ
.M=Oth missing		4	143	9	15
.S=Skip,question not asked	792	657	817	649	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	226	167	99	122	86
1.Yes	10717	9818	12454	11708	10337

## How Constructed

In Wave 3A and from Wave 4 onwards, in the Expectations section, Respondents are asked a series of probability questions. They are asked how likely a certain scenario is and reports a probability (0-100).

If Respondent responds don't know or refused to answer the first three probability questions, then the rest of the section is skipped. RwANS3PQ is set to "1" if the Respondent successfully responded to at least the first three probability question and "0" if not. If the Respondent skipped the entire section then RwANS3PQ is set to .M. It is set to .S if skipped because the interview is by proxy.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwANS3PQ.

## Cross Wave Differences in Original HRS Data

In Wave 1, 2 and 3H the questions are not asked.

In Wave 3A we use the three questions specified in the questionnaire to determine if Respondent answered the probability questions. In Waves 4 to 8, we simply re-code a raw HRS variable that tells us if Respondent responded to the first three probability questions.

In Wave 9 and beyond, we use two counts to calculate if Respondent responded to the first three probability questions. This first is a count of the number of questions the Respondent was asked and the second is a count of the number of questions the Respondent reported don't know or refused.

In Wave 3H, the values are set to the .Q SAS special missing value, to indicate that no information is available.

## HRS Variables Used

```
AHEAD 1995:
    D3786      H0.INTRO
    D3787      H1.EXP:INC-INFLATION
    D3789      H3.EXP:MED COSTS
HRS 1998:
    F4577      H_CK2.PROBABILITY SCALE CHECKPOINT
HRS 2000:
    G4990      H_CKPT1.PROBABILITY SCALE CHECKPOINT
HRS 2002:
    HP009      CHECKPOINT - R CAN DO PROBABILITY SCALES
HRS 2004:
    JP009      CHECKPOINT - R CAN DO PROBABILITY SCALES
HRS 2006:
    KP009      CHECKPOINT - R CAN DO PROBABILITY SCALES
HRS 2008:
    LP155      NUMBER OF PERCENT RANGE QUESTIONS ASKED
    LP156      NUMBER OF PERCENT RANGE QUESTIONS ANSWERED DK OR RF
HRS 2010:
    MP155      NUMBER OF PERCENT RANGE QUESTIONS ASKED
    MP156      NUMBER OF PERCENT RANGE QUESTIONS ANSWERED DK OR RF
HRS 2012:
    NP009      R CAN DO PROBABILITY SCALES
HRS 2014:
    OP009      R CAN DO PROBABILITY SCALES
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**Self-reported probability of receiving an inheritance**

Wave	Variable	Label	Type
2	R2INHER	R2INHER:W2 R Prob inheritance nxt 10 yr	Cont
3	R3INHER	R3INHER:W3 R Prob inheritance nxt 10 yr	Cont
4	R4INHER	R4INHER:W4 R Prob inheritance nxt 10 yr	Cont
5	R5INHER	R5INHER:W5 R Prob inheritance nxt 10 yr	Cont
6	R6INHER	R6INHER:W6 R Prob inheritance nxt 10 yr	Cont
7	R7INHER	R7INHER:W7 R Prob inheritance nxt 10 yr	Cont
8	R8INHER	R8INHER:W8 R Prob inheritance nxt 10 yr	Cont
2	S2INHER	S2INHER:W2 S Prob inheritance nxt 10 yr	Cont
3	S3INHER	S3INHER:W3 S Prob inheritance nxt 10 yr	Cont
4	S4INHER	S4INHER:W4 S Prob inheritance nxt 10 yr	Cont
5	S5INHER	S5INHER:W5 S Prob inheritance nxt 10 yr	Cont
6	S6INHER	S6INHER:W6 S Prob inheritance nxt 10 yr	Cont
7	S7INHER	S7INHER:W7 S Prob inheritance nxt 10 yr	Cont
8	S8INHER	S8INHER:W8 S Prob inheritance nxt 10 yr	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2INHER	10480	21.50	34.25	0.0	100.0
R3INHER	9965	20.26	34.37	0.0	100.0
R4INHER	18687	14.07	30.11	0.0	100.0
R5INHER	16881	14.02	29.72	0.0	100.0
R6INHER	15556	12.35	28.31	0.0	100.0
R7INHER	17817	13.86	29.16	0.0	100.0
R8INHER	16538	14.39	29.69	0.0	100.0
S2INHER	7943	23.28	35.20	0.0	100.0
S3INHER	7472	22.15	35.56	0.0	100.0
S4INHER	12252	17.11	32.56	0.0	100.0
S5INHER	11020	17.20	32.24	0.0	100.0
S6INHER	10017	15.12	30.81	0.0	100.0
S7INHER	11534	16.66	31.49	0.0	100.0
S8INHER	10596	18.06	32.48	0.0	100.0

### How Constructed

This question is not asked in Wave 1, 2A or 3A. From Wave 2H forward, Respondent's self-reported probability is given on a 0-100 scale. RWINHER simply recodes missing values. It is set to .S if the question is skipped because the interview is by proxy.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RWINHER.

In Waves 2A and 3A, the data needed to derive R2INHER and R3INHER are not collected. R2INHER and R3INHER are set to .Q to indicate that this information is not available for AHEAD Respondents in these waves.

From Wave 9 forward, the data is not collected and so the variable is dropped for these waves.

## Cross Wave Differences in Original HRS Data

The question is not asked in Wave 1, 2A or 3A. In Wave 2H it is asked in the Cognition section. From Wave 3H forward, it is asked in the Expectations section.

Through Wave 7, the question asks: "And how about the chances that you will receive an inheritance within the next 10 years?"

In Wave 8, the question changes, particularly for those in a couple household. It is: "(Not counting anything you might give or leave to each other,) what are the chances that you (or your [husband/wife/partner]) will receive an inheritance during the next 10 years?"

For AHEAD Respondents in Waves 2A and 3A, the information for R2INHER and R3INHER are not available.

From Wave 9 forward, this question is not asked.

## HRS Variables Used

HRS 1994:	
W5845	C11.CHANCE RECEIVE INHER
HRS 1996:	
E3827	H12.RECEIVE INHERIT.
HRS 1998:	
F4576	H3. RECEIVE INHERIT.
HRS 2000:	
G4989	H3. RCV INHERIT
G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HP008	WILL R RECEIVE ANY INHERITANCE NEXT 10YR
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JP008	WILL R RECEIVE ANY INHERITANCE NEXT 10YR
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KP008	WILL R RECEIVE ANY INHERITANCE NEXT 10YR

### Self-reported probability of leaving a bequest

Wave	Variable	Label	Type
1	R1BEQLRG	R1BEQLRG:W1 R Prob leave sizable bequest	Categ
1	S1BEQLRG	S1BEQLRG:W1 S Prob leave sizable bequest	Categ
2	R2BEQ10K	R2BEQ10K:W2 R Prob leave bequest 10K+	Cont
3	R3BEQ10K	R3BEQ10K:W3 R Prob leave bequest 10K+	Cont
4	R4BEQ10K	R4BEQ10K:W4 R Prob leave bequest 10K+	Cont
5	R5BEQ10K	R5BEQ10K:W5 R Prob leave bequest 10K+	Cont
6	R6BEQ10K	R6BEQ10K:W6 R Prob leave bequest 10K+	Cont
7	R7BEQ10K	R7BEQ10K:W7 R Prob leave bequest 10K+	Cont
8	R8BEQ10K	R8BEQ10K:W8 R Prob leave bequest 10K+	Cont
9	R9BEQ10K	R9BEQ10K:W9 R Prob leave bequest 10K+	Cont
10	R10BEQ10K	R10BEQ10K:W10 R Prob leave bequest 10K+	Cont
11	R11BEQ10K	R11BEQ10K:W11 R Prob leave bequest 10K+	Cont
12	R12BEQ10K	R12BEQ10K:W12 R Prob leave bequest 10K+	Cont
2	S2BEQ10K	S2BEQ10K:W2 S Prob leave bequest 10K+	Cont
3	S3BEQ10K	S3BEQ10K:W3 S Prob leave bequest 10K+	Cont
4	S4BEQ10K	S4BEQ10K:W4 S Prob leave bequest 10K+	Cont
5	S5BEQ10K	S5BEQ10K:W5 S Prob leave bequest 10K+	Cont
6	S6BEQ10K	S6BEQ10K:W6 S Prob leave bequest 10K+	Cont
7	S7BEQ10K	S7BEQ10K:W7 S Prob leave bequest 10K+	Cont
8	S8BEQ10K	S8BEQ10K:W8 S Prob leave bequest 10K+	Cont
9	S9BEQ10K	S9BEQ10K:W9 S Prob leave bequest 10K+	Cont
10	S10BEQ10K	S10BEQ10K:W10 S Prob leave bequest 10K+	Cont
11	S11BEQ10K	S11BEQ10K:W11 S Prob leave bequest 10K+	Cont
12	S12BEQ10K	S12BEQ10K:W12 S Prob leave bequest 10K+	Cont
2	R2BEQ100	R2BEQ100:W2 R Prob leave bequest 100K+	Cont
3	R3BEQ100	R3BEQ100:W3 R Prob leave bequest 100K+	Cont
4	R4BEQ100	R4BEQ100:W4 R Prob leave bequest 100K+	Cont
5	R5BEQ100	R5BEQ100:W5 R Prob leave bequest 100K+	Cont
6	R6BEQ100	R6BEQ100:W6 R Prob leave bequest 100K+	Cont
7	R7BEQ100	R7BEQ100:W7 R Prob leave bequest 100K+	Cont
8	R8BEQ100	R8BEQ100:W8 R Prob leave bequest 100K+	Cont
9	R9BEQ100	R9BEQ100:W9 R Prob leave bequest 100K+	Cont
10	R10BEQ100	R10BEQ100:W10 R Prob leave bequest 100K+	Cont
11	R11BEQ100	R11BEQ100:W11 R Prob leave bequest 100K+	Cont
12	R12BEQ100	R12BEQ100:W12 R Prob leave bequest 100K+	Cont
2	S2BEQ100	S2BEQ100:W2 S Prob leave bequest 100K+	Cont
3	S3BEQ100	S3BEQ100:W3 S Prob leave bequest 100K+	Cont
4	S4BEQ100	S4BEQ100:W4 S Prob leave bequest 100K+	Cont
5	S5BEQ100	S5BEQ100:W5 S Prob leave bequest 100K+	Cont
6	S6BEQ100	S6BEQ100:W6 S Prob leave bequest 100K+	Cont
7	S7BEQ100	S7BEQ100:W7 S Prob leave bequest 100K+	Cont
8	S8BEQ100	S8BEQ100:W8 S Prob leave bequest 100K+	Cont
9	S9BEQ100	S9BEQ100:W9 S Prob leave bequest 100K+	Cont
10	S10BEQ100	S10BEQ100:W10 S Prob leave bequest 100K+	Cont
11	S11BEQ100	S11BEQ100:W11 S Prob leave bequest 100K+	Cont
12	S12BEQ100	S12BEQ100:W12 S Prob leave bequest 100K+	Cont
6	R6BEQ500	R6BEQ500:W6 R Prob leave bequest 500K+	Cont
7	R7BEQ500	R7BEQ500:W7 R Prob leave bequest 500K+	Cont
8	R8BEQ500	R8BEQ500:W8 R Prob leave bequest 500K+	Cont
9	R9BEQ500	R9BEQ500:W9 R Prob leave bequest 500K+	Cont
10	R10BEQ500	R10BEQ500:W10 R Prob leave bequest 500K+	Cont
11	R11BEQ500	R11BEQ500:W11 R Prob leave bequest 500K+	Cont
12	R12BEQ500	R12BEQ500:W12 R Prob leave bequest 500K+	Cont
6	S6BEQ500	S6BEQ500:W6 S Prob leave bequest 500K+	Cont
7	S7BEQ500	S7BEQ500:W7 S Prob leave bequest 500K+	Cont
8	S8BEQ500	S8BEQ500:W8 S Prob leave bequest 500K+	Cont
9	S9BEQ500	S9BEQ500:W9 S Prob leave bequest 500K+	Cont
10	S10BEQ500	S10BEQ500:W10 S Prob leave bequest 500K+	Cont
11	S11BEQ500	S11BEQ500:W11 S Prob leave bequest 500K+	Cont

12	S12BEQ500	S12BEQ500:W12 S Prob leave bequest 500K+	Cont
2	R2BEQANY	R2BEQANY:W2 R Prob leave bequest any	Cont
3	R3BEQANY	R3BEQANY:W3 R Prob leave bequest any	Cont
4	R4BEQANY	R4BEQANY:W4 R Prob leave bequest any	Cont
5	R5BEQANY	R5BEQANY:W5 R Prob leave bequest any	Cont
6	R6BEQANY	R6BEQANY:W6 R Prob leave bequest any	Cont
7	R7BEQANY	R7BEQANY:W7 R Prob leave bequest any	Cont
8	R8BEQANY	R8BEQANY:W8 R Prob leave bequest any	Cont
9	R9BEQANY	R9BEQANY:W9 R Prob leave bequest any	Cont
10	R10BEQANY	R10BEQANY:W10 R Prob leave bequest any	Cont
11	R11BEQANY	R11BEQANY:W11 R Prob leave bequest any	Cont
12	R12BEQANY	R12BEQANY:W12 R Prob leave bequest any	Cont
2	S2BEQANY	S2BEQANY:W2 S Prob leave bequest any	Cont
3	S3BEQANY	S3BEQANY:W3 S Prob leave bequest any	Cont
4	S4BEQANY	S4BEQANY:W4 S Prob leave bequest any	Cont
5	S5BEQANY	S5BEQANY:W5 S Prob leave bequest any	Cont
6	S6BEQANY	S6BEQANY:W6 S Prob leave bequest any	Cont
7	S7BEQANY	S7BEQANY:W7 S Prob leave bequest any	Cont
8	S8BEQANY	S8BEQANY:W8 S Prob leave bequest any	Cont
9	S9BEQANY	S9BEQANY:W9 S Prob leave bequest any	Cont
10	S10BEQANY	S10BEQANY:W10 S Prob leave bequest any	Cont
11	S11BEQANY	S11BEQANY:W11 S Prob leave bequest any	Cont
12	S12BEQANY	S12BEQANY:W12 S Prob leave bequest any	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BEQLRG	12368	3.43	1.38	1.0	5.0
S1BEQLRG	9778	3.36	1.37	1.0	5.0
R2BEQ10K	16870	61.69	42.52	0.0	100.0
R3BEQ10K	15406	63.97	41.81	0.0	100.0
R4BEQ10K	18347	67.98	39.98	0.0	100.0
R5BEQ10K	16613	69.57	39.08	0.0	100.0
R6BEQ10K	15315	68.94	39.33	0.0	100.0
R7BEQ10K	17566	67.12	39.27	0.0	100.0
R8BEQ10K	16281	68.95	39.71	0.0	100.0
R9BEQ10K	15260	69.66	38.99	0.0	100.0
R10BEQ10K	19646	63.32	40.05	0.0	100.0
R11BEQ10K	18602	62.76	39.79	0.0	100.0
R12BEQ10K	16996	62.80	39.67	0.0	100.0
S2BEQ10K	11384	67.81	39.72	0.0	100.0
S3BEQ10K	10357	70.50	38.61	0.0	100.0
S4BEQ10K	12089	74.12	36.18	0.0	100.0
S5BEQ10K	10893	75.44	35.10	0.0	100.0
S6BEQ10K	9906	74.91	35.46	0.0	100.0
S7BEQ10K	11380	73.12	35.67	0.0	100.0
S8BEQ10K	10446	75.33	35.72	0.0	100.0
S9BEQ10K	9568	75.96	34.66	0.0	100.0
S10BEQ10K	12166	68.74	37.32	0.0	100.0
S11BEQ10K	11431	67.78	37.34	0.0	100.0
S12BEQ10K	10112	68.25	36.92	0.0	100.0
R2BEQ100	16336	32.34	40.94	0.0	100.0
R3BEQ100	14912	35.19	41.97	0.0	100.0
R4BEQ100	18126	40.01	42.99	0.0	100.0

R5BEQ100	16399	43.45	43.30	0.0	100.0
R6BEQ100	15071	43.99	43.24	0.0	100.0
R7BEQ100	17361	43.96	42.85	0.0	100.0
R8BEQ100	16086	48.43	43.84	0.0	100.0
R9BEQ100	15072	48.06	43.72	0.0	100.0
R10BEQ100	19443	42.49	42.09	0.0	100.0
R11BEQ100	18422	41.13	41.58	0.0	100.0
R12BEQ100	16867	42.14	41.58	0.0	100.0
S2BEQ100	11080	37.40	41.75	0.0	100.0
S3BEQ100	10086	40.54	42.54	0.0	100.0
S4BEQ100	11944	46.25	43.01	0.0	100.0
S5BEQ100	10755	49.95	42.85	0.0	100.0
S6BEQ100	9751	50.87	42.62	0.0	100.0
S7BEQ100	11254	50.73	42.27	0.0	100.0
S8BEQ100	10330	55.71	42.51	0.0	100.0
S9BEQ100	9452	55.44	42.41	0.0	100.0
S10BEQ100	12044	48.19	41.62	0.0	100.0
S11BEQ100	11334	46.94	41.31	0.0	100.0
S12BEQ100	10042	48.43	41.10	0.0	100.0
R6BEQ500	14922	16.27	30.88	0.0	100.0
R7BEQ500	17247	16.91	31.19	0.0	100.0
R8BEQ500	15970	20.61	34.27	0.0	100.0
R9BEQ500	14926	19.97	33.82	0.0	100.0
R10BEQ500	19339	17.88	31.22	0.0	100.0
R11BEQ500	18314	16.73	30.20	0.0	100.0
R12BEQ500	16778	18.47	31.32	0.0	100.0
S6BEQ500	9643	19.87	33.05	0.0	100.0
S7BEQ500	11167	20.21	33.05	0.0	100.0
S8BEQ500	10257	24.66	36.03	0.0	100.0
S9BEQ500	9359	23.98	35.55	0.0	100.0
S10BEQ500	11975	20.98	32.80	0.0	100.0
S11BEQ500	11265	19.69	31.74	0.0	100.0
S12BEQ500	9994	21.82	32.91	0.0	100.0
R2BEQANY	6594	53.42	42.09	0.0	100.0
R3BEQANY	12146	66.13	42.15	0.0	100.0
R4BEQANY	12128	76.89	40.69	0.0	100.0
R5BEQANY	10524	78.22	40.12	0.0	100.0
R6BEQANY	9567	78.36	40.03	0.0	100.0
R7BEQANY	10280	75.75	41.68	0.0	100.0
R8BEQANY	10361	77.20	41.07	0.0	100.0
R9BEQANY	9334	77.34	40.91	0.0	100.0
R10BEQANY	10452	71.36	43.98	0.0	100.0
R11BEQANY	9590	70.67	44.34	0.0	100.0
R12BEQANY	8614	71.02	44.11	0.0	100.0
S2BEQANY	3564	60.34	40.20	0.0	100.0
S3BEQANY	7823	74.16	38.41	0.0	100.0
S4BEQANY	7753	84.64	34.65	0.0	100.0
S5BEQANY	6678	86.14	33.35	0.0	100.0
S6BEQANY	6023	86.25	33.34	0.0	100.0
S7BEQANY	6448	83.86	35.68	0.0	100.0
S8BEQANY	6516	85.34	34.57	0.0	100.0
S9BEQANY	5663	86.09	33.73	0.0	100.0
S10BEQANY	6154	79.18	39.55	0.0	100.0
S11BEQANY	5590	78.31	40.09	0.0	100.0



S12BEQANY	4865	79.17	39.60	0.0	100.0
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## Categorical Variable Codes

Value	R1BEQLRG
.D=DK	67
.M=Oth missing	95
.R=RF	122
1.Yes, definitely	1564
2.Yes, probably	1998
3.Yes, possibly	1934
4.Probably not	3329
5.No, definitely	3543

Value	S1BEQLRG
.D=DK	52
.R=RF	70
.U=Unmarried	2373
.V=Spouse NR	379
1.Yes, definitely	1254
2.Yes, probably	1708
3.Yes, possibly	1574
4.Probably not	2700
5.No, definitely	2542

## How Constructed

In Wave 1, Respondent is asked to rate on a 5-point scale whether s/he expects to leave a "large" bequest. The HRS variable is simply recoded for missings. Beginning in Wave 2, Respondent is asked to give the probability that s/he will leave a bequest of \$10,000 or more. If the probability is greater than zero, s/he is asked for the probability of leaving a bequest of \$100,000 or more. If that probability is greater than zero, beginning in Wave 6, s/he is asked for the probability of leaving a bequest of \$500,000 or more. In Wave 3H, and from Wave 4 forward an additional question is asked if Respondent gives a zero probability to the first question. Respondent is asked for the probability of leaving any bequest.

In Wave 2A and 3A, Respondent is asked for the probability of leaving any bequest before being asked the subsequent 10K and 100K questions.

In Wave 2A and from Wave 3 forward, probabilities are given on a 0-100 scale. They are simply recoded for missings, and set to .S if the interview is by proxy. If Respondent reports a 0 probability of leaving a \$10,000 bequest then RwBEQ100 is set to zero. If Respondent reports a non-zero probability of leaving a \$10,000 request, the "any" bequest variable in waves 3H and from Wave 4 forward is skipped. In this case, RwBEQANY is set to .Y (skipped/asked 10K) unless it is 100 percent chance.

In Waves 2A and 3A, if Respondent reports a zero probability of leaving an "any" bequest variable then the 10K and 100K questions are skipped. In these cases RwBEQ10K and RwBEQ100 are set to zero.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's R1BEQLRG, RwBEQ10K, RwBEQ100, RwBEQ500 and RwBEQANY.

In Wave 2H, the data needed to derive R2BEQANY are not collected. R2BEQANY is set to .Q to indicate that this information is not available for HRS Respondents in this wave.

### **Cross Wave Differences in Original HRS Data**

In Wave 1 the question is at the end of Section M (Net worth other than housing) and asks: "Do you [and your (spouse/partner)] expect to leave a sizeable inheritance to your heirs?" The answers are given in a 5-point scale from 1=Yes, definitely to 5=No, definitely not.

In Wave 2H two questions are asked in the Cognition section:

- 1) "And what are the chances that you [or your (husband/wife/partner)] will leave an inheritance totalling \$10,000 or more?"
- 2) "What are the chances that you [or your (husband/wife/partner)] will leave an inheritance totalling \$100,000 or more."

Answers are given as a 0-100 probability. The second question is skipped if the answer to the first is 0=absolutely no chance.

In Wave 3H the same two questions are asked in the Expectations section, and if Respondent responds "absolutely no chance" to the first, another is asked:

- 3) "What are the chances that you (and your (spouse/partner)) will leave any inheritance?"

In Wave 2A and 3A three questions are asked in the Expectations section:

- 1) "What are the chances that you [or your (husband/wife/partner)] will leave any inheritance?"
- 2) "And what are the chances that you [or your (husband/wife/partner)] will leave an inheritance totalling \$10,000 or more?"
- 3) "What are the chances that you [or your (husband/wife/partner)] will leave an inheritance totalling \$100,000 or more?"

Answers are given as a 0-100 probability. The second or third question is skipped if the answer to the previous is 0=absolutely no chance or .S. The third question is also skipped if probability given to the second question is 30 percent or less.

From Wave 4 to Wave 7, the questions are also asked in the Expectations section, and the first question wording is slightly different:

- 1) "Including property and other valuables that you might own, what are the chances that you [and your (husband/wife/partner)] will leave an inheritance totalling \$10,000 or more?"

From Wave 6 forward, an additional question is asked:

"What are the chances that you [or your (husband/wife/partner)] will leave an inheritance totalling \$500,000 or more?"

From Wave 8 forward, the question is prefaced by the following:

"Think about an inheritance you (and your (husband/wife/partner) might leave (but not including any inheritance you might leave to each other)."

In Waves 4 to 7, the second and third questions are the same as in Wave 3H. From Wave 8 forward, the second and third questions are the same, except that they are prefaced by the word "And."

From Wave 2 forward, these questions are skipped if the interview is by proxy.

For HRS Respondents in Wave 2H, the information for R2BEQANY is not available.

## HRS Variables Used

HRS 1992:	
V5349	M44:WILL LEAV LRG INHERIT
AHEAD 1993:	
B1277	H3. EXPECT LEAVE INHERITANCE
B1279	H3a. EXPECT LEAVE AT LEAST \$10K
B1280	H3b. EXPECT LEAVE AT LEAST \$100K
HRS 1994:	
W5843	C10.CHANCE LEAVE INHERIT
W5844	C10a.CHANCE LEAVE INHERI
AHEAD 1995:	
D3796	H7.EXP:LEAVE INHERIT
D3797	H7A.EXP:LEAVE-\$20K
D3798	H7B.EXP:LEAVE-\$100K
HRS 1996:	
E3824	H11. LEAVE INHERIT. 10K
E3825	H11A. LEAVE INHERIT. 100K
E3826	H11B.LEAVE ANY INHERIT
HRS 1998:	
F4572	H2. LEAVE INHERIT. 10K
F4574	H2A. LEAVE INHERIT. 100K
F4575	H2B. LEAVE ANY INHERIT
HRS 2000:	
G4985	H2. LEAVE INHERIT-10K
G4987	H2A. LEAVE INHERIT-100K
G4988	H2B. LEAVE ANY INHERIT
G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HP005	WILL R LEAVE INHERITANCE - \$10K
HP006	WILL R LEAVE INHERITANCE - \$100K
HP007	WILL R LEAVE ANY INHERITANCE
HP059	CHANCE R/SP LEAVE INHERIT OF \$500K/MORE
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JP005	WILL R LEAVE INHERITANCE - \$10K
JP006	WILL R LEAVE INHERITANCE - \$100K
JP007	WILL R LEAVE ANY INHERITANCE
JP059	CHANCE R/SP LEAVE INHERIT OF \$500K/MORE
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KP005	WILL R LEAVE INHERITANCE - 10K
KP006	WILL R LEAVE INHERITANCE - 100K

KP007	WILL R LEAVE ANY INHERITANCE
KP059	CHANCE R/SP LEAVE INHERIT OF 500K/MORE
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LP005	WILL R LEAVE INHERITANCE - 10K
LP006	WILL R LEAVE INHERITANCE - 100K
LP007	WILL R LEAVE ANY INHERITANCE
LP059	CHANCE R/SP LEAVE INHERIT OF 500K/MORE
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MP005	WILL R LEAVE INHERITANCE - 10K
MP006	WILL R LEAVE INHERITANCE - 100K
MP007	WILL R LEAVE ANY INHERITANCE
MP059	CHANCE R/SP LEAVE INHERIT OF 500K/MORE
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NP005	WILL R LEAVE INHERITANCE - 10K
NP006	WILL R LEAVE INHERITANCE - 100K
NP007	WILL R LEAVE ANY INHERITANCE
NP059	CHANCE R/SP LEAVE INHERIT OF 500K/MORE
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OP005	WILL R LEAVE INHERITANCE - 10K
OP006	WILL R LEAVE INHERITANCE - 100K
OP007	WILL R LEAVE ANY INHERITANCE
OP059	CHANCE R/SP LEAVE INHERIT OF 500K/MORE

### Self-reported probability of working full-time after age 62

Wave	Variable	Label	Type
1	R1WORK62	R1WORK62:W1 R Prob working FT after 62	Cont
2	R2WORK62	R2WORK62:W2 R Prob working FT after 62	Cont
3	R3WORK62	R3WORK62:W3 R Prob working FT after 62	Cont
4	R4WORK62	R4WORK62:W4 R Prob working FT after 62	Cont
5	R5WORK62	R5WORK62:W5 R Prob working FT after 62	Cont
6	R6WORK62	R6WORK62:W6 R Prob working FT after 62	Cont
7	R7WORK62	R7WORK62:W7 R Prob working FT after 62	Cont
8	R8WORK62	R8WORK62:W8 R Prob working FT after 62	Cont
9	R9WORK62	R9WORK62:W9 R Prob working FT after 62	Cont
10	R10WORK62	R10WORK62:W10 R Prob working FT after 62	Cont
11	R11WORK62	R11WORK62:W11 R Prob working FT after 62	Cont
12	R12WORK62	R12WORK62:W12 R Prob working FT after 62	Cont
1	S1WORK62	S1WORK62:W1 S Prob working FT after 62	Cont
2	S2WORK62	S2WORK62:W2 S Prob working FT after 62	Cont
3	S3WORK62	S3WORK62:W3 S Prob working FT after 62	Cont
4	S4WORK62	S4WORK62:W4 S Prob working FT after 62	Cont
5	S5WORK62	S5WORK62:W5 S Prob working FT after 62	Cont
6	S6WORK62	S6WORK62:W6 S Prob working FT after 62	Cont
7	S7WORK62	S7WORK62:W7 S Prob working FT after 62	Cont
8	S8WORK62	S8WORK62:W8 S Prob working FT after 62	Cont
9	S9WORK62	S9WORK62:W9 S Prob working FT after 62	Cont
10	S10WORK62	S10WORK62:W10 S Prob working FT after 62	Cont
11	S11WORK62	S11WORK62:W11 S Prob working FT after 62	Cont
12	S12WORK62	S12WORK62:W12 S Prob working FT after 62	Cont
2	R2WORK62F	R2WORK62F:W2 Logical Skip Flag: P62	Cont
3	R3WORK62F	R3WORK62F:W3 Logical Skip Flag: P62	Cont
4	R4WORK62F	R4WORK62F:W4 Logical Skip Flag: P62	Cont
5	R5WORK62F	R5WORK62F:W5 Logical Skip Flag: P62	Cont
6	R6WORK62F	R6WORK62F:W6 Logical Skip Flag: P62	Cont
7	R7WORK62F	R7WORK62F:W7 Logical Skip Flag: P62	Cont
8	R8WORK62F	R8WORK62F:W8 Logical Skip Flag: P62	Cont
9	R9WORK62F	R9WORK62F:W9 Logical Skip Flag: P62	Cont
10	R10WORK62F	R10WORK62F:W10 Logical Skip Flag: P62	Cont
11	R11WORK62F	R11WORK62F:W11 Logical Skip Flag: P62	Cont
12	R12WORK62F	R12WORK62F:W12 Logical Skip Flag: P62	Cont
2	S2WORK62F	S2WORK62F:W2 Logical Skip Flag: P62	Cont
3	S3WORK62F	S3WORK62F:W3 Logical Skip Flag: P62	Cont
4	S4WORK62F	S4WORK62F:W4 Logical Skip Flag: P62	Cont
5	S5WORK62F	S5WORK62F:W5 Logical Skip Flag: P62	Cont
6	S6WORK62F	S6WORK62F:W6 Logical Skip Flag: P62	Cont
7	S7WORK62F	S7WORK62F:W7 Logical Skip Flag: P62	Cont
8	S8WORK62F	S8WORK62F:W8 Logical Skip Flag: P62	Cont
9	S9WORK62F	S9WORK62F:W9 Logical Skip Flag: P62	Cont
10	S10WORK62F	S10WORK62F:W10 Logical Skip Flag: P62	Cont
11	S11WORK62F	S11WORK62F:W11 Logical Skip Flag: P62	Cont
12	S12WORK62F	S12WORK62F:W12 Logical Skip Flag: P62	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK62	7943	47.36	39.27	0.0	100.0
R2WORK62	8647	34.04	38.24	0.0	100.0
R3WORK62	5979	35.94	40.35	0.0	100.0
R4WORK62	6657	37.85	39.92	0.0	100.0
R5WORK62	5266	41.08	40.48	0.0	100.0
R6WORK62	3967	41.38	40.29	0.0	100.0

R7WORK62	5329	43.26	38.17	0.0	100.0
R8WORK62	5189	40.85	38.36	0.0	100.0
R9WORK62	4374	45.62	39.71	0.0	100.0
R10WORK62	8918	42.94	37.57	0.0	100.0
R11WORK62	7616	42.19	37.32	0.0	100.0
R12WORK62	6183	42.16	37.70	0.0	100.0
S1WORK62	6203	46.28	39.07	0.0	100.0
S2WORK62	6434	33.14	37.71	0.0	100.0
S3WORK62	4472	34.29	39.55	0.0	100.0
S4WORK62	4962	36.39	39.15	0.0	100.0
S5WORK62	3985	40.03	40.02	0.0	100.0
S6WORK62	2992	40.39	39.77	0.0	100.0
S7WORK62	3901	42.93	37.66	0.0	100.0
S8WORK62	3818	41.28	38.07	0.0	100.0
S9WORK62	3148	45.89	39.29	0.0	100.0
S10WORK62	5817	44.08	37.03	0.0	100.0
S11WORK62	5054	43.79	36.89	0.0	100.0
S12WORK62	4063	43.58	37.02	0.0	100.0
R2WORK62F	19642	0.08	0.27	0.0	1.0
R3WORK62F	17991	0.08	0.26	0.0	1.0
R4WORK62F	21384	0.06	0.23	0.0	1.0
R5WORK62F	19579	0.05	0.22	0.0	1.0
R6WORK62F	18165	0.04	0.20	0.0	1.0
R7WORK62F	20129	0.04	0.20	0.0	1.0
R8WORK62F	18469	0.00	0.02	0.0	1.0
R9WORK62F	17217	0.04	0.18	0.0	1.0
R10WORK62F	22034	0.05	0.22	0.0	1.0
R11WORK62F	20554	0.05	0.22	0.0	1.0
R12WORK62F	18747	0.05	0.22	0.0	1.0
S2WORK62F	13088	0.08	0.27	0.0	1.0
S3WORK62F	11915	0.08	0.27	0.0	1.0
S4WORK62F	13978	0.07	0.25	0.0	1.0
S5WORK62F	12730	0.06	0.23	0.0	1.0
S6WORK62F	11639	0.05	0.22	0.0	1.0
S7WORK62F	12972	0.04	0.20	0.0	1.0
S8WORK62F	11735	0.00	0.02	0.0	1.0
S9WORK62F	10646	0.04	0.19	0.0	1.0
S10WORK62F	13513	0.04	0.21	0.0	1.0
S11WORK62F	12488	0.05	0.21	0.0	1.0
S12WORK62F	11027	0.04	0.21	0.0	1.0

## How Constructed

In Wave 1 the Respondent's self-reported probability of working full-time after age 62 is given on a 0-10 scale. This is multiplied by 10 to derive a 0-100 scale consistent with that reported in other waves.

If Respondent answers "absolutely no chance" to a previous question about the chances of working in the future, the probability of working full-time after age 62 question is skipped but we set it to zero and the logical imputation flag RWORK62F is set to 1.

Otherwise this variable simply recodes missing values.

RwWORK62 is set to .A if skipped because Respondent is already age 62. Note that the HRS documentation indicates that this question is asked of 62-year olds in Waves 4 to 6, but many of these cases are coded 996-already 62. In these waves RwWORK62 is set to .A if age is over 62 or if age 62 with code 996. It is set to .W if the question is skipped because Respondent is not working, and to .S if skipped because the interview is by proxy. It is set to .X if the Respondent cannot perform the probability question. .D means Don't Know and .R means the Respondent refused to answer the question. If the HRS variable contains a valid probability it is assigned regardless of the Respondent's age, work status, or proxy status.

Respondents who had difficulty with the first few probabilities in the expectations module skip these questions and are coded as .X.

In Wave 2A and 3A, there are no comparable questions and so for AHEAD Respondents, the values are set to the .Q SAS special missing value, to indicate that no information is available.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwWORK62.

### **Cross Wave Differences in Original HRS Data**

In Wave 1, the question is in the Employment section and asks: "Thinking about work generally and not just your present job, what do you think are the chances that you will be working full-time after you reach age 62?" It is skipped if Respondent is not currently working for pay.

In Wave 2H, the question is in the Cognition section and is skipped if the Respondent is not working for pay. The question wording is the same as in Wave 1 if Respondent is currently working. The phrase "Think about work generally and not just your present job" is dropped if Respondent is not working.

From Wave 3H forward, the question is asked in the Expectations section and the "Think about . . ." phrase is dropped if Respondent is self-employed. From Wave 3H to Wave 7, the question is skipped if Respondent is not currently working for pay. From Wave 8, the question is asked whether Respondent is working or not.

From Wave 2H forward, the question is skipped if the interview is by proxy. If Respondent answers "absolutely no chance" to a previous question about the chances of working in the future the question is also skipped.

From Waves 2H, 3H, and from Wave 7 forward, it is skipped if the Respondent is age 62 or older. In Waves 4 to 6, it is asked if the Respondent is age 62 and skipped if older than 62. For many of the age 62 Respondents in these waves the code 996 indicates that they are already 62.

In Wave 1, the answers range from 0=absolutely no chance to 10=absolutely certain. From Wave 2H forward, the answers range from 0=absolutely no chance to 100=absolutely certain.

In Wave 2A and 3A, there are no comparable questions and for AHEAD Respondents, the values are set to the .Q SAS special missing value, to indicate that no information is available.

In Wave 8, 722 Respondents reported zero to the probability of working in the future but then were asked the probability of working at age 62 in error. 710 reported zero to the probability of working until age 62. Therefore, the logical skip flag was not set for these cases. This accounts for the low means in R8WORK62F.

In Wave 9, 1400 Respondents are given an opportunity to change their response if they said there was a 0 or 100 percent probability they would be working at age 62. These follow-on questions ask if the Respondent is certain their

answer is accurate and if not, asks for another estimate. We do not include these amended answers in RwWORK62 but these variables are available on the 2008 RAND HRS Fat File and the skip pattern can be found in the questionnaire on the HRS website.

In Wave 10, 3599 Respondents are given an opportunity to change their answer. The selection process is more complicated but again, we do not use this data in R10WORK62. These variables are available on the 2010 RAND HRS Fat Files and the skip pattern can be found in the questionnaire on the HRS website. So it is possible for someone to be missing RwWORK62 but have a value in RwWORK65 due to changing their answer and getting asked the probability of working at age 65 question.

In Wave 11, the questionnaire reverts back to the questions asked in Wave 8. There is no opportunity to change an answer and the skip logic is applied correctly so the flag (R11WORK62F) is in line with other waves.

## HRS Variables Used

HRS 1992:	
V3208	F71:RATE:WRK FT AT AG 62
HRS 1994:	
W5803	CF103a.PROBABILITY WORK
W5804	CFA104.PROB WORK FULL-TI
HRS 1996:	
E3790	H3A.LIKELIHOOD WORK IN FUTURE
E3796	H4. WORK AFTER 62
HRS 1998:	
F4585	H6. WORK FUTURE
F4589	H7. WORK AFTER 62
HRS 2000:	
G4998	H6. WORK FUTURE
G5002	H7. WORK AFTER 62
HRS 2002:	
HP016	LIKELIHOOD R WILL WORK FOR PAY
HP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2004:	
JP016	LIKELIHOOD R WILL WORK FOR PAY
JP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2006:	
KP016	LIKELIHOOD R WILL WORK FOR PAY
KP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2008:	
LP016	LIKELIHOOD R WILL WORK FOR PAY
LP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2010:	
MP016	LIKELIHOOD R WILL WORK FOR PAY
MP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2012:	
NP016	LIKELIHOOD R WILL WORK FOR PAY
NP017	LIKELIHOOD R WILL WORK AFTER AGE 62
HRS 2014:	
OP016	LIKELIHOOD R WILL WORK FOR PAY
OP017	LIKELIHOOD R WILL WORK AFTER AGE 62



### Self-reported probability of working full-time after age 65

Wave	Variable	Label	Type
1	R1WORK65	R1WORK65:W1 R Prob working FT after 65	Cont
2	R2WORK65	R2WORK65:W2 R Prob working FT after 65	Cont
3	R3WORK65	R3WORK65:W3 R Prob working FT after 65	Cont
4	R4WORK65	R4WORK65:W4 R Prob working FT after 65	Cont
5	R5WORK65	R5WORK65:W5 R Prob working FT after 65	Cont
6	R6WORK65	R6WORK65:W6 R Prob working FT after 65	Cont
7	R7WORK65	R7WORK65:W7 R Prob working FT after 65	Cont
8	R8WORK65	R8WORK65:W8 R Prob working FT after 65	Cont
9	R9WORK65	R9WORK65:W9 R Prob working FT after 65	Cont
10	R10WORK65	R10WORK65:W10 R Prob working FT after 65	Cont
11	R11WORK65	R11WORK65:W11 R Prob working FT after 65	Cont
12	R12WORK65	R12WORK65:W12 R Prob working FT after 65	Cont
1	S1WORK65	S1WORK65:W1 S Prob working FT after 65	Cont
2	S2WORK65	S2WORK65:W2 S Prob working FT after 65	Cont
3	S3WORK65	S3WORK65:W3 S Prob working FT after 65	Cont
4	S4WORK65	S4WORK65:W4 S Prob working FT after 65	Cont
5	S5WORK65	S5WORK65:W5 S Prob working FT after 65	Cont
6	S6WORK65	S6WORK65:W6 S Prob working FT after 65	Cont
7	S7WORK65	S7WORK65:W7 S Prob working FT after 65	Cont
8	S8WORK65	S8WORK65:W8 S Prob working FT after 65	Cont
9	S9WORK65	S9WORK65:W9 S Prob working FT after 65	Cont
10	S10WORK65	S10WORK65:W10 S Prob working FT after 65	Cont
11	S11WORK65	S11WORK65:W11 S Prob working FT after 65	Cont
12	S12WORK65	S12WORK65:W12 S Prob working FT after 65	Cont
2	R2WORK65F	R2WORK65F:W2 Logical Skip Flag: P65	Cont
3	R3WORK65F	R3WORK65F:W3 Logical Skip Flag: P65	Cont
4	R4WORK65F	R4WORK65F:W4 Logical Skip Flag: P65	Cont
5	R5WORK65F	R5WORK65F:W5 Logical Skip Flag: P65	Cont
6	R6WORK65F	R6WORK65F:W6 Logical Skip Flag: P65	Cont
7	R7WORK65F	R7WORK65F:W7 Logical Skip Flag: P65	Cont
8	R8WORK65F	R8WORK65F:W8 Logical Skip Flag: P65	Cont
9	R9WORK65F	R9WORK65F:W9 Logical Skip Flag: P65	Cont
10	R10WORK65F	R10WORK65F:W10 Logical Skip Flag: P65	Cont
11	R11WORK65F	R11WORK65F:W11 Logical Skip Flag: P65	Cont
12	R12WORK65F	R12WORK65F:W12 Logical Skip Flag: P65	Cont
2	S2WORK65F	S2WORK65F:W2 Logical Skip Flag: P65	Cont
3	S3WORK65F	S3WORK65F:W3 Logical Skip Flag: P65	Cont
4	S4WORK65F	S4WORK65F:W4 Logical Skip Flag: P65	Cont
5	S5WORK65F	S5WORK65F:W5 Logical Skip Flag: P65	Cont
6	S6WORK65F	S6WORK65F:W6 Logical Skip Flag: P65	Cont
7	S7WORK65F	S7WORK65F:W7 Logical Skip Flag: P65	Cont
8	S8WORK65F	S8WORK65F:W8 Logical Skip Flag: P65	Cont
9	S9WORK65F	S9WORK65F:W9 Logical Skip Flag: P65	Cont
10	S10WORK65F	S10WORK65F:W10 Logical Skip Flag: P65	Cont
11	S11WORK65F	S11WORK65F:W11 Logical Skip Flag: P65	Cont
12	S12WORK65F	S12WORK65F:W12 Logical Skip Flag: P65	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK65	8133	26.57	34.13	0.0	100.0
R2WORK65	9366	17.26	29.06	0.0	100.0
R3WORK65	6804	17.91	30.59	0.0	100.0
R4WORK65	7427	19.19	30.93	0.0	100.0
R5WORK65	5976	21.51	31.97	0.0	100.0
R6WORK65	4687	20.69	31.27	0.0	100.0

R7WORK65	6720	26.73	33.80	0.0	100.0
R8WORK65	6643	25.40	33.42	0.0	100.0
R9WORK65	5491	29.42	34.91	0.0	100.0
R10WORK65	10249	29.34	33.93	0.0	100.0
R11WORK65	9282	28.41	33.49	0.0	100.0
R12WORK65	7954	28.48	34.00	0.0	100.0
S1WORK65	6397	25.49	33.44	0.0	100.0
S2WORK65	6943	16.68	28.41	0.0	100.0
S3WORK65	5023	16.83	29.43	0.0	100.0
S4WORK65	5484	18.44	30.10	0.0	100.0
S5WORK65	4474	20.76	31.20	0.0	100.0
S6WORK65	3485	20.10	30.51	0.0	100.0
S7WORK65	4858	26.27	33.30	0.0	100.0
S8WORK65	4864	25.04	32.85	0.0	100.0
S9WORK65	3939	29.32	34.38	0.0	100.0
S10WORK65	6728	29.83	33.55	0.0	100.0
S11WORK65	6104	29.02	33.15	0.0	100.0
S12WORK65	5120	28.96	33.40	0.0	100.0
R2WORK65F	19642	0.22	0.41	0.0	1.0
R3WORK65F	17991	0.19	0.40	0.0	1.0
R4WORK65F	21384	0.16	0.37	0.0	1.0
R5WORK65F	19579	0.13	0.34	0.0	1.0
R6WORK65F	18165	0.11	0.32	0.0	1.0
R7WORK65F	20129	0.11	0.31	0.0	1.0
R8WORK65F	18469	0.09	0.28	0.0	1.0
R9WORK65F	17217	0.08	0.28	0.0	1.0
R10WORK65F	22034	0.11	0.31	0.0	1.0
R11WORK65F	20554	0.12	0.33	0.0	1.0
R12WORK65F	18747	0.12	0.33	0.0	1.0
S2WORK65F	13088	0.24	0.43	0.0	1.0
S3WORK65F	11915	0.22	0.41	0.0	1.0
S4WORK65F	13978	0.18	0.39	0.0	1.0
S5WORK65F	12730	0.15	0.36	0.0	1.0
S6WORK65F	11639	0.13	0.34	0.0	1.0
S7WORK65F	12972	0.12	0.32	0.0	1.0
S8WORK65F	11735	0.09	0.29	0.0	1.0
S9WORK65F	10646	0.09	0.29	0.0	1.0
S10WORK65F	13513	0.10	0.30	0.0	1.0
S11WORK65F	12488	0.12	0.32	0.0	1.0
S12WORK65F	11027	0.12	0.32	0.0	1.0

## How Constructed

In Wave 1 the Respondent's self-reported probability of working full-time after age 65 is given on a 0-10 scale. This is multiplied by 10 to derive a 0-100 scale consistent with that reported in other waves.

If Respondent answers "absolutely no chance" to a previous question about the chances of working in the future, the probability of working full-time after age 65 question is skipped but we set it to zero and the logical imputation flag RwWORK65F is set to 1.

If Respondent reports 0 probability of working full-time after age 62 then the probability of working full-time after

age 65 is also set to zero and the logical imputation flag `RwWORK65F` is set to 1. Otherwise this variable simply recodes missing values.

`RwWORK65` is set to `.A` if skipped because Respondent is already age 65. It is set to `.W` if skipped because Respondent is not working, and to `.S` if skipped because the interview is by proxy. It is set to `.X` if the Respondent cannot perform the probability question. `.D` means "Don't Know" and `.R` means the "Respondent refused to answer the question." If the HRS variable contains a valid probability it is assigned regardless of the Respondent's age, work status, or proxy status.

Note that most 62-65 year-olds have missing values for this variable from Wave 2 through Wave 6. This is because of discrepancies between the skip patterns as described in the documentation and those actually found in the data.

In Wave 2A and 3A, there are no comparable questions and so for AHEAD Respondents, the values are set to the `.Q` SAS special missing value, to indicate that no information is available.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's `RwWORK65`.

## Cross Wave Differences in Original HRS Data

In Wave 1, the question is in the Employment section. In Wave 2H it is in the Cognitions section, and thereafter it is in the Expectations section. In all waves, it is preceded by one asking the chances of working after age 62 and has the same wording. The question asks: "And what about the chances that you will be working full-time after you reach age 65?" In all waves it is skipped if Respondent responds "absolutely no chance" to the preceding age 62 question.

In Wave 1 and from Wave 3H to Wave 7, the question is skipped if Respondent is not currently working for pay. In Wave 2H, it is skipped if the Respondent is not working for pay and answers "absolutely no chance" to a previous question about the chances of working in the future. In Wave 8 it is asked whether Respondent is working or not. From Wave 2H forward it is skipped if the interview is by proxy.

From Wave 2H forward, the question is skipped if Respondent answers "absolutely no chance" to a previous question about the chances of working in the future. The documentation indicates that question is skipped if the Respondent is already age 65. However it appears from the data that most Respondents age 63 or older in Wave 2H skip this question. From Wave 3H to Wave 6 it appears that most Respondents age 62 or older skip this question, that is, most Respondents who skipped the preceding age 62 question also skip this one. This appears to have been corrected in Wave 7.

In Wave 1, the answers range from 0=absolutely no chance to 10=absolutely certain. From Wave 2H forward, the answers range from 0=absolutely no chance to 100=absolutely certain.

In Wave 2A and 3A, there are no comparable questions and so for AHEAD Respondents, the values are set to the `.Q` SAS special missing value, to indicate that no information is available.

## HRS Variables Used

HRS 1992:	
V3208	F71:RATE:WRK FT AT AG 62
V3209	F72:RATE:WRK FT AT AG 65
HRS 1994:	
W5805	CFA105.PROB WORK FULL-TI
HRS 1996:	
E3797	H5. WORK AFTER 65

HRS 1998:	
F4590	H8. WORK AFTER 65
HRS 2000:	
G5003	H8. WORK AFTER 65
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2004:	
JA009	PROXY/SELF INTERVIEW
JP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2006:	
KA009	PROXY/SELF INTERVIEW
KP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2008:	
LA009	PROXY/SELF INTERVIEW
LP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2010:	
MA009	PROXY/SELF INTERVIEW
MP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2012:	
NA009	PROXY/SELF INTERVIEW
NP018	LIKELIHOOD R WILL WORK AFTER AGE 65
HRS 2014:	
OA009	PROXY/SELF INTERVIEW
OP018	LIKELIHOOD R WILL WORK AFTER AGE 65

**Self-reported probability of having a work limiting health problem in next 10 years**

Wave	Variable	Label	Type
1	R1WORKLM	R1WORKLM:W1 R Prob health limiting work	Cont
2	R2WORKLM	R2WORKLM:W2 R Prob health limiting work	Cont
3	R3WORKLM	R3WORKLM:W3 R Prob health limiting work	Cont
4	R4WORKLM	R4WORKLM:W4 R Prob health limiting work	Cont
5	R5WORKLM	R5WORKLM:W5 R Prob health limiting work	Cont
6	R6WORKLM	R6WORKLM:W6 R Prob health limiting work	Cont
1	S1WORKLM	S1WORKLM:W1 S Prob health limiting work	Cont
2	S2WORKLM	S2WORKLM:W2 S Prob health limiting work	Cont
3	S3WORKLM	S3WORKLM:W3 S Prob health limiting work	Cont
4	S4WORKLM	S4WORKLM:W4 S Prob health limiting work	Cont
5	S5WORKLM	S5WORKLM:W5 S Prob health limiting work	Cont
6	S6WORKLM	S6WORKLM:W6 S Prob health limiting work	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORKLM	8062	39.19	28.11	0.0	100.0
R2WORKLM	7814	36.62	28.39	0.0	100.0
R3WORKLM	5479	39.08	28.90	0.0	100.0
R4WORKLM	7239	39.19	28.22	0.0	100.0
R5WORKLM	6168	42.23	27.86	0.0	100.0
R6WORKLM	5232	42.84	28.15	0.0	100.0
S1WORKLM	6378	38.74	27.87	0.0	100.0
S2WORKLM	6023	36.17	27.98	0.0	100.0
S3WORKLM	4157	38.78	28.71	0.0	100.0
S4WORKLM	5310	38.86	27.81	0.0	100.0
S5WORKLM	4533	41.92	27.59	0.0	100.0
S6WORKLM	3809	42.22	27.71	0.0	100.0

### How Constructed

In Wave 1, Respondent's self-reported probability of health limiting work is given on a 0-10 scale. This is multiplied by 10 to derive a 0-100 scale consistent with that reported in other waves.

Otherwise this variable simply recodes missing values.

If Respondent's health already limits her/his work then this variable is set to .A. It is set to .W if skipped because Respondent is not working, and to .S if skipped because the interview is by proxy. If the HRS variable contains a valid probability it is assigned regardless of the Respondent's work or proxy status.

In Wave 2A and 3A, there are no comparable questions and so for AHEAD Respondents, the values are set to the .Q SAS special missing value, to indicate that no information is available.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwWORKLM.

The question is not asked from wave 7 and forward.

### Cross Wave Differences in Original HRS Data

In Wave 1, the question is in the Employment section. In Wave 2H it is in the Cognitions section, and thereafter it is in the Expectations section. The question is not asked from Wave 7 forward. The question wording is the same across all waves:

"What about the chances that your health will limit your work activity during the next 10 years?"

In Wave 1 and from Wave 3H forward, the question is skipped if Respondent is not currently working for pay. In Wave 2H, it is skipped if the Respondent is not working for pay and answers "absolutely no chance" to a previous question about the chances of working in the future. From Wave 2H forward it is skipped if the interview is by proxy.

In Wave 1, the answers range from 0=absolutely no chance to 10=absolutely certain. From Wave 2H forward, the answers range from 0=absolutely no chance to 100=absolutely certain. The Respondent may also indicate that a health problem already limits work.

In Wave 2A and 3A, there are no comparable questions and so for AHEAD Respondents, the values are set to the .Q SAS special missing value, to indicate that no information is available.

### HRS Variables Used

HRS 1992:	
V3210	F73:RATE:HLTH WILL LMT W
HRS 1994:	
W5806	CFA106.PROB HEALTH LIMIT
HRS 1996:	
E3798	H6. HEALTH LIMIT WORK
HRS 2000:	
G514	CS1A.PROXY/SELF INTERVIEW
HRS 2002:	
HA009	PROXY/SELF INTERVIEW
HP019	CHANCE HEALTH LIMIT ACTIVITY - NEXT 10YR

### Self-reported probability of moving to nursing home in next 5 years

Wave	Variable	Label	Type
4	R4PNHM5Y	R4PNHM5Y:W4 R Prob moving to NHM in 5 yrs	Cont
5	R5PNHM5Y	R5PNHM5Y:W5 R Prob moving to NHM in 5 yrs	Cont
6	R6PNHM5Y	R6PNHM5Y:W6 R Prob moving to NHM in 5 yrs	Cont
7	R7PNHM5Y	R7PNHM5Y:W7 R Prob moving to NHM in 5 yrs	Cont
8	R8PNHM5Y	R8PNHM5Y:W8 R Prob moving to NHM in 5 yrs	Cont
9	R9PNHM5Y	R9PNHM5Y:W9 R Prob moving to NHM in 5 yrs	Cont
10	R10PNHM5Y	R10PNHM5Y:W10 R Prob moving to NHM in 5 yrs	Cont
11	R11PNHM5Y	R11PNHM5Y:W11 R Prob moving to NHM in 5 yrs	Cont
12	R12PNHM5Y	R12PNHM5Y:W12 R Prob moving to NHM in 5 yrs	Cont
4	S4PNHM5Y	S4PNHM5Y:W4 S Prob moving to NHM in 5 yrs	Cont
5	S5PNHM5Y	S5PNHM5Y:W5 S Prob moving to NHM in 5 yrs	Cont
6	S6PNHM5Y	S6PNHM5Y:W6 S Prob moving to NHM in 5 yrs	Cont
7	S7PNHM5Y	S7PNHM5Y:W7 S Prob moving to NHM in 5 yrs	Cont
8	S8PNHM5Y	S8PNHM5Y:W8 S Prob moving to NHM in 5 yrs	Cont
9	S9PNHM5Y	S9PNHM5Y:W9 S Prob moving to NHM in 5 yrs	Cont
10	S10PNHM5Y	S10PNHM5Y:W10 S Prob moving to NHM in 5 yrs	Cont
11	S11PNHM5Y	S11PNHM5Y:W11 S Prob moving to NHM in 5 yrs	Cont
12	S12PNHM5Y	S12PNHM5Y:W12 S Prob moving to NHM in 5 yrs	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R4PNHM5Y	8546	12.10	21.02	0.0	100.0
R5PNHM5Y	8163	14.03	21.99	0.0	100.0
R6PNHM5Y	8310	13.73	21.46	0.0	100.0
R7PNHM5Y	8795	13.86	21.49	0.0	100.0
R8PNHM5Y	9188	13.74	21.29	0.0	100.0
R9PNHM5Y	9408	14.73	21.67	0.0	100.0
R10PNHM5Y	9159	15.61	22.67	0.0	100.0
R11PNHM5Y	9046	16.81	23.33	0.0	100.0
R12PNHM5Y	8887	16.67	23.43	0.0	100.0
S4PNHM5Y	5107	11.09	19.44	0.0	100.0
S5PNHM5Y	4816	12.91	20.35	0.0	100.0
S6PNHM5Y	4897	12.84	20.11	0.0	100.0
S7PNHM5Y	5302	12.72	20.07	0.0	100.0
S8PNHM5Y	5435	12.79	19.69	0.0	100.0
S9PNHM5Y	5557	13.96	20.26	0.0	100.0
S10PNHM5Y	5383	14.73	20.91	0.0	100.0
S11PNHM5Y	5277	15.91	21.89	0.0	100.0
S12PNHM5Y	4981	15.81	21.77	0.0	100.0

### How Constructed

RwPNHM5Y is the Respondent's self-reported probability of moving to nursing home in next 5 years. From Wave 4 forward, the question is only asked among those 65 and older.

SwPNHM5Y provides this information for the Respondent's spouse or partner.

RwPNHM5Y simply recodes for missing values. It is set to .N if skipped because Respondent is currently in nursing home. It is set to .S if the question is skipped because the interview is by proxy. It is set to .A if skipped because Respondent is younger than 65. It is set to .X if the Respondent can not perform the probability question. .D means Don't Know and .R means the Respondent refused to answer the question.

The spouse variable is taken from the wave "w" spouse's self-report.

Because this question is not asked or asked of the different samples in Waves 1 to 3, the measure is not included for these earlier waves at this time.

## Cross Wave Differences in Original HRS Data

The question asks: "What is the percent chance that you will move to a nursing home in the next five years?" It is only asked among those aged 65 and older. For some of those younger than 65 who are not re-interviews, an alternate question wording asks for the probability of ever moving to a nursing home. This variable does NOT include answers to the alternate question asked of younger Respondents.

The question is not asked if Respondent is currently in nursing home, the interview is by proxy and if Respondent is younger than age 65.

This question is not asked at all in Wave 1, and is asked of varying samples in Waves 2 and 3. In Waves 2A and 3A it is asked of everyone. In Wave 2H it is asked of those 60 and older, and in Wave 3H it is asked of those 70 and older. The alternate question wording asked of younger Respondents appears in Wave 3H for those 60 to 69 years old.

## HRS Variables Used

HRS 1998:	
F1014	R`S CUR AGE
F4610	H14. MOVE TO NURSING HOME
F517	CS11.R IN NURSING HOME
F682	PREVIOUS WAVE INTERV
HRS 2000:	
G1101	A21Y1.R-CURRENT AGE
G5023	H14. MOVE TO NURSING HOME
G558	CS11.R IN NURSING HOME
G753	CS22Y30.PREVIOUS WAVE INTERV
HRS 2002:	
HA019	R CURRENT AGE CALCULATION
HA028	R IN NURSING HOME
HP032	PERCENT CHANCE R WILL MOVE TO NH IN 5YR
HRS 2004:	
JA019	R CURRENT AGE CALCULATION
JA028	R IN NURSING HOME
JP032	PERCENT CHANCE R WILL MOVE TO NH IN 5YR
HRS 2006:	
KA019	R CURRENT AGE CALCULATION
KA028	R IN NURSING HOME
KP032	PERCENT CHANCE R WILL MOVE TO NH IN 5YR
HRS 2008:	
LA019	R CURRENT AGE CALCULATION
LA028	R IN NURSING HOME
LP032	PERCENT CHANCE R WILL MOVE TO NH IN 5YR



HRS 2010:  
MA019 R CURRENT AGE CALCULATION  
MA028 R IN NURSING HOME  
MP032 PERCENT CHANCE R WILL MOVE TO NH IN 5YR  
HRS 2012:  
NA019 R CURRENT AGE CALCULATION  
NA028 R IN NURSING HOME  
NP032 PERCENT CHANCE R WILL MOVE TO NH IN 5YR  
HRS 2014:  
OA019 R CURRENT AGE CALCULATION  
OA028 R IN NURSING HOME  
OP032 PERCENT CHANCE R WILL MOVE TO NH IN 5YR

<b>Retirement satisfaction</b>
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Wave	Variable	Label	Type
1	R1RETSAT	R1RETSAT:W1 Ret Satisfying	Categ
2	R2RETSAT	R2RETSAT:W2 Ret Satisfying	Categ
3	R3RETSAT	R3RETSAT:W3 Ret Satisfying	Categ
4	R4RETSAT	R4RETSAT:W4 Ret Satisfying	Categ
5	R5RETSAT	R5RETSAT:W5 Ret Satisfying	Categ
6	R6RETSAT	R6RETSAT:W6 Ret Satisfying	Categ
7	R7RETSAT	R7RETSAT:W7 Ret Satisfying	Categ
8	R8RETSAT	R8RETSAT:W8 Ret Satisfying	Categ
9	R9RETSAT	R9RETSAT:W9 Ret Satisfying	Categ
10	R10RETSAT	R10RETSAT:W10 Ret Satisfying	Categ
11	R11RETSAT	R11RETSAT:W11 Ret Satisfying	Categ
12	R12RETSAT	R12RETSAT:W12 Ret Satisfying	Categ
1	S1RETSAT	S1RETSAT:W1 Ret Satisfying	Categ
2	S2RETSAT	S2RETSAT:W2 Ret Satisfying	Categ
3	S3RETSAT	S3RETSAT:W3 Ret Satisfying	Categ
4	S4RETSAT	S4RETSAT:W4 Ret Satisfying	Categ
5	S5RETSAT	S5RETSAT:W5 Ret Satisfying	Categ
6	S6RETSAT	S6RETSAT:W6 Ret Satisfying	Categ
7	S7RETSAT	S7RETSAT:W7 Ret Satisfying	Categ
8	S8RETSAT	S8RETSAT:W8 Ret Satisfying	Categ
9	S9RETSAT	S9RETSAT:W9 Ret Satisfying	Categ
10	S10RETSAT	S10RETSAT:W10 Ret Satisfying	Categ
11	S11RETSAT	S11RETSAT:W11 Ret Satisfying	Categ
12	S12RETSAT	S12RETSAT:W12 Ret Satisfying	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETSAT	1787	1.76	0.77	1.0	3.0
R2RETSAT	2207	1.64	0.73	1.0	3.0
R3RETSAT	2890	1.55	0.68	1.0	3.0
R4RETSAT	7239	1.48	0.64	1.0	3.0
R5RETSAT	7289	1.47	0.63	1.0	3.0
R6RETSAT	6992	1.46	0.61	1.0	3.0
R7RETSAT	8324	1.54	0.65	1.0	3.0
R8RETSAT	8421	1.55	0.65	1.0	3.0
R9RETSAT	8230	1.54	0.64	1.0	3.0
R10RETSAT	9129	1.61	0.67	1.0	3.0
R11RETSAT	9128	1.62	0.67	1.0	3.0
R12RETSAT	9006	1.62	0.67	1.0	3.0
S1RETSAT	1418	1.67	0.73	1.0	3.0
S2RETSAT	1685	1.54	0.68	1.0	3.0
S3RETSAT	2187	1.48	0.64	1.0	3.0
S4RETSAT	4392	1.43	0.62	1.0	3.0
S5RETSAT	4551	1.42	0.61	1.0	3.0
S6RETSAT	4221	1.41	0.59	1.0	3.0
S7RETSAT	5016	1.48	0.64	1.0	3.0
S8RETSAT	5013	1.49	0.63	1.0	3.0
S9RETSAT	4748	1.47	0.61	1.0	3.0
S10RETSAT	5142	1.53	0.65	1.0	3.0
S11RETSAT	5086	1.55	0.65	1.0	3.0
S12RETSAT	4818	1.54	0.65	1.0	3.0

## Categorical Variable Codes

Value	R1RETSAT	R2RETSAT	R3RETSAT	R4RETSAT	R5RETSAT	R6RETSAT	R7RETSAT
.D=DK	2	7	8	42	31	28	44
.I=Irrelevant	1257	839	4792	4320	3538	2787	2080
.M=Oth missing	2			9	48	24	163
.N=Not retired	8945	7638	6909	8421	7287	6293	8219
.Q=Not asked this wv		8222					
.R=RF	13	1	3	5	4	5	5
.S=Skip, proxy IW	646	728	1457	1348	1382	2036	1294
.X=Retired over 2 yrs ago			1932				
1.Very	783	1134	1626	4356	4415	4238	4571
2.Moderately	641	739	950	2313	2342	2313	3016
3.Not at all	363	334	314	570	532	441	737

Value	R8RETSAT	R9RETSAT	R10RETSAT	R11RETSAT	R12RETSAT
.D=DK	56	26	63	81	96
.I=Irrelevant	1958	1707	945	735	434
.M=Oth missing	113	127	123	177	154
.N=Not retired	7039	6357	10947	9775	8483
.R=RF	6	5	5	9	11
.S=Skip, proxy IW	876	765	822	649	563
1.Very	4517	4414	4546	4418	4379
2.Moderately	3163	3166	3602	3721	3680
3.Not at all	741	650	981	989	947

Value	S1RETSAT	S2RETSAT	S3RETSAT	S4RETSAT	S5RETSAT	S6RETSAT	S7RETSAT
.D=DK	2	4	3	14	20	14	23
.I=Irrelevant	943	578	2411	2533	2058	1604	1198
.M=Oth missing	1			5	33	11	41
.N=Not retired	6916	5803	5113	6076	5193	4428	5820
.Q=Not asked this wv		4549					
.R=RF	6	1	1	1	1	2	1
.S=Skip, proxy IW	614	668	941	957	874	1359	873
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.X=Retired over 2 yrs ago			1259				
1.Very	687	955	1323	2804	2923	2740	3001
2.Moderately	513	545	687	1273	1326	1248	1628
3.Not at all	218	185	177	315	302	233	387

Value	S8RETSAT	S9RETSAT	S10RETSAT	S11RETSAT	S12RETSAT
.D=DK	27	6	21	36	31
.I=Irrelevant	1114	960	545	439	252
.M=Oth missing	34	39	39	67	44
.N=Not retired	4990	4446	7246	6472	5531
.R=RF	2	1	3	5	9
.S=Skip, proxy IW	555	446	517	383	342
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Very	2931	2795	2836	2727	2627
2.Moderately	1702	1651	1873	1915	1787
3.Not at all	380	302	433	444	404

## How Constructed

RwRETSAT is the Respondent's self-report of retirement satisfaction. The question is asked if the Respondent is completely retired. SwRETSAT provides the information for the Respondent's spouse or partner.

RwRETSAT simply recodes for missing values. It is set to .N if Respondent is not retired. It is set to .I if the question is

irrelevant because Respondent has not worked relatively recently. These cases correspond to those where RwSAYRET is coded 3. Question irrelevant. It is set to .S if the question is skipped because the interview is by proxy. In Wave 3A, when R3SAYRET is .A for probably retired, R3RETSAT is set to .I, and if the question is skipped because Respondent retired more than two years ago, it is set to .X.

The spouse variable is taken from the wave "w" spouse's self-report. If Respondent is not married, SwRETSAT is set to .U=unmarried. If Respondent's spouse did not respond then these are set to .V=Spouse is non-response.

Because this question is not asked in Wave 2A, the measure is not included at this time.

## Cross Wave Differences in Original HRS Data

For all waves, the question is: "All in all, would you say that your retirement has turned out to be very satisfying, moderately satisfying, or not at all satisfying?"

The question is asked of everyone who says they are completely retired in RwSAYRET and where the interview is not by proxy. In Wave 3A, the question is also skipped if Respondent retired more than two years ago.

This question is not asked in Wave 2A.

## HRS Variables Used

HRS 1992:	
V4921	K9:SATISFIED W/RETIRMNT
HRS 1994:	
W3987	FA125.HOW SATISFIED WITH
W4642	FB85.HOW SATISFIED WITH
W5026	FC43.HOW SATISFIED WITH
AHEAD 1995:	
D3137	GA125.HOW SATISFIED
D3495	GB85.HOW SATISFIED
D3717	GC43.HOW SATISFIED
HRS 1996:	
E3045	G136.HOW SATISFIED WITH RETIREMENT
HRS 1998:	
F3576	G136.HOW SATISFIED WITH RETIREMENT
HRS 2000:	
G3865	G136.HOW SATISFIED WITH RETIREMENT
HRS 2002:	
HJ584	HOW SATISFIED W/ RETIREMENT
HRS 2004:	
JJ584	HOW SATISFIED W/ RETIREMENT
HRS 2006:	
KJ584	HOW SATISFIED W/ RETIREMENT
HRS 2008:	
LJ584	HOW SATISFIED W/ RETIREMENT
HRS 2010:	
MJ584	HOW SATISFIED W/ RETIREMENT
HRS 2012:	
NJ584	HOW SATISFIED W/ RETIREMENT
HRS 2014:	
OJ584	HOW SATISFIED W/ RETIREMENT

<b>Retirement years compared to years just before retirement</b>
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Wave	Variable	Label	Type
1	R1RYRCMP	R1RYRCMP:W1 Ret Yrs Compared to Before	Categ
2	R2RYRCMP	R2RYRCMP:W2 Ret Yrs Compared to Before	Categ
3	R3RYRCMP	R3RYRCMP:W3 Ret Yrs Compared to Before	Categ
4	R4RYRCMP	R4RYRCMP:W4 Ret Yrs Compared to Before	Categ
5	R5RYRCMP	R5RYRCMP:W5 Ret Yrs Compared to Before	Categ
6	R6RYRCMP	R6RYRCMP:W6 Ret Yrs Compared to Before	Categ
7	R7RYRCMP	R7RYRCMP:W7 Ret Yrs Compared to Before	Categ
8	R8RYRCMP	R8RYRCMP:W8 Ret Yrs Compared to Before	Categ
9	R9RYRCMP	R9RYRCMP:W9 Ret Yrs Compared to Before	Categ
10	R10RYRCMP	R10RYRCMP:W10 Ret Yrs Compared to Before	Categ
11	R11RYRCMP	R11RYRCMP:W11 Ret Yrs Compared to Before	Categ
12	R12RYRCMP	R12RYRCMP:W12 Ret Yrs Compared to Before	Categ
1	S1RYRCMP	S1RYRCMP:W1 Ret Yrs Compared to Before	Categ
2	S2RYRCMP	S2RYRCMP:W2 Ret Yrs Compared to Before	Categ
3	S3RYRCMP	S3RYRCMP:W3 Ret Yrs Compared to Before	Categ
4	S4RYRCMP	S4RYRCMP:W4 Ret Yrs Compared to Before	Categ
5	S5RYRCMP	S5RYRCMP:W5 Ret Yrs Compared to Before	Categ
6	S6RYRCMP	S6RYRCMP:W6 Ret Yrs Compared to Before	Categ
7	S7RYRCMP	S7RYRCMP:W7 Ret Yrs Compared to Before	Categ
8	S8RYRCMP	S8RYRCMP:W8 Ret Yrs Compared to Before	Categ
9	S9RYRCMP	S9RYRCMP:W9 Ret Yrs Compared to Before	Categ
10	S10RYRCMP	S10RYRCMP:W10 Ret Yrs Compared to Before	Categ
11	S11RYRCMP	S11RYRCMP:W11 Ret Yrs Compared to Before	Categ
12	S12RYRCMP	S12RYRCMP:W12 Ret Yrs Compared to Before	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RYRCMP	1653	2.84	1.67	1.0	5.0
R2RYRCMP	2088	2.56	1.63	1.0	5.0
R3RYRCMP	2727	2.43	1.55	1.0	5.0
R4RYRCMP	7052	2.41	1.49	1.0	5.0
R5RYRCMP	7115	2.32	1.49	1.0	5.0
R6RYRCMP	6809	2.37	1.46	1.0	5.0
R7RYRCMP	2224	2.46	1.51	1.0	5.0
R8RYRCMP	2025	2.51	1.49	1.0	5.0
R9RYRCMP	1808	2.41	1.49	1.0	5.0
R10RYRCMP	2529	2.72	1.55	1.0	5.0
R11RYRCMP	2456	2.76	1.55	1.0	5.0
R12RYRCMP	1843	2.52	1.48	1.0	5.0
S1RYRCMP	1305	2.67	1.63	1.0	5.0
S2RYRCMP	1596	2.38	1.58	1.0	5.0
S3RYRCMP	2065	2.29	1.49	1.0	5.0
S4RYRCMP	4254	2.28	1.46	1.0	5.0
S5RYRCMP	4442	2.20	1.46	1.0	5.0
S6RYRCMP	4099	2.25	1.42	1.0	5.0
S7RYRCMP	1455	2.33	1.47	1.0	5.0
S8RYRCMP	1324	2.39	1.46	1.0	5.0
S9RYRCMP	1160	2.24	1.43	1.0	5.0
S10RYRCMP	1547	2.57	1.50	1.0	5.0
S11RYRCMP	1519	2.59	1.51	1.0	5.0
S12RYRCMP	1131	2.41	1.44	1.0	5.0

## Categorical Variable Codes

Value	R1RYRCMP	R2RYRCMP	R3RYRCMP	R4RYRCMP	R5RYRCMP	R6RYRCMP	R7RYRCMP
.D=DK	4	7	13	58	61	60	20
.I=Irrelevant	1257	839	4792	4320	3538	2787	2081
.M=Oth missing	2		2	9	48	24	56
.N=Not completely retired	8945	7638	6909	8421	7287	6293	8219
.Q=Not asked this wv		8222					
.R=RF	13	1	5	5	5	8	4
.S=Skip, proxy IW	646	728	1457	1348	1382	2036	1802
.W=Not working prev 2 wvs							5620
.X=Retired over 2 ago			1932				
.Y=Retired lt 1 yr ago	132	119	154	171	143	148	103
1.Better	649	972	1319	3326	3575	3223	1017
3.About same	486	601	870	2493	2368	2509	795
5.Not as good	518	515	538	1233	1172	1077	412

Value	R8RYRCMP	R9RYRCMP	R10RYRCMP	R11RYRCMP	R12RYRCMP
.D=DK	29	19	14	17	20
.I=Irrelevant	1958	1707	945	735	434
.M=Oth missing	109	124	141	325	130
.N=Not completely retired	7039	6357	10947	9776	8483
.R=RF	2	1	3	6	6
.S=Skip, proxy IW	1260	1140	1382	1145	1049
.W=Not working prev 2 wvs	5907	5981	6006	6032	6733
.Y=Retired lt 1 yr ago	140	80	67	62	49
1.Better	875	846	958	905	777
3.About same	774	652	964	944	727
5.Not as good	376	310	607	607	339

Value	S1RYRCMP	S2RYRCMP	S3RYRCMP	S4RYRCMP	S5RYRCMP	S6RYRCMP	S7RYRCMP
.D=DK	4	3	6	26	24	29	10
.I=Irrelevant	943	578	2411	2533	2058	1604	1199
.M=Oth missing	1			5	33	11	31
.N=Not completely retired	6916	5803	5113	6076	5193	4428	5820
.Q=Not asked this wv		4549					
.R=RF	10	1	3	3	1	3	1
.S=Skip, proxy IW	614	668	941	957	874	1359	1203
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working prev 2 wvs							3180
.X=Retired over 2 ago			1259				
.Y=Retired lt 1 yr ago	107	90	117	124	105	106	73
1.Better	560	818	1065	2180	2418	2096	715
3.About same	401	452	666	1428	1374	1452	511
5.Not as good	344	326	334	646	650	551	229

Value	S8RYRCMP	S9RYRCMP	S10RYRCMP	S11RYRCMP	S12RYRCMP
.D=DK	14	10	6	8	8
.I=Irrelevant	1114	960	545	439	252
.M=Oth missing	51	59	78	182	57
.N=Not completely retired	4990	4446	7246	6473	5531
.R=RF			3	6	4
.S=Skip, proxy IW	792	657	817	648	589
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working prev 2 wvs	3358	3294	3221	3174	3425
.Y=Retired lt 1 yr ago	92	60	50	39	30
1.Better	616	598	638	619	506
3.About same	495	403	604	591	451
5.Not as good	213	159	305	309	174

## How Constructed

RwRYRCMP is the Respondent's comparison of retirement years to the time just before retirement. The question is asked if the Respondent is completely retired. SwRYRCMP provides this information for the Respondent's spouse or partner.

RwRYRCMP recodes for missing values. It is set to .N if Respondent is not completely retired. It is set to .I if the question is irrelevant because Respondent has not worked relatively recently. These cases correspond to those where RwSAYRET is coded 3. Question irrelevant. RwRYRCMP is set to .S if the question is skipped because the interview is by proxy. It is set to .Y if Respondent retired less than one year ago.

In later waves, RwRYRCMP is set to .W if Respondent has not reported working in the previous two waves of data.

In Wave 2A this question is not asked and the value is set to .Q. In Wave 3A, when R3SAYRET is .A for probably retired, R3RYRCMP is set to .I, and if the question is skipped because Respondent retired more than two years ago, it is set to .X.

The spouse variable is taken from the wave "w" spouse's self-report. If Respondent is not married, SwRYRCMP is set to .U=unmarried. If Respondent's spouse did not respond then these are set to .V=Spouse.

## Cross Wave Differences in Original HRS Data

In all waves this question is skipped if the interview is by proxy. Otherwise the sample asked this question varies across waves.

In Waves 1-3, all self-reporting, fully retired Respondents are asked this question.

In Wave 4, AHEAD cohort Respondents are not asked, but all self-reporting CODA and War Babies Respondents are, along with all new HRS cohort spouses. One of ten HRS cohort Respondents is also randomly selected for these questions.

In Wave 5, the questionnaire indicates that Respondents are selected based on whether they were asked the question in 1998 and their experimental module assignment in 1996, in addition to random selection among those under 65. But the criteria involving 1998 and 1996 does not appear to be accurate, nor is the selection based on age. It appears instead that one of twelve Respondents is randomly selected for these questions, regardless of age. All entry cohort subsamples are eligible for selection.

In Wave 6 if person is 65 or older the questions are skipped. Otherwise, all other self-reporting retired Respondents are asked this question.

In Waves 7 and forward, Respondents are skipped if they are not completely retired or if they have not reported working in the previous two waves of data.

## HRS Variables Used

HRS 1992:	
V4922	K10:QUAL OF RET VS.WK YR
HRS 1994:	
W3988	FA126.RETIREMENT YEARS B

W4643	FB86.RETIREMENT YEARS BE
W5027	FC44.RETIREMENT BETTER/S
AHEAD 1995:	
D3138	GA126.BETTER/SAME
D3496	GB86.BETTER/SAME
D3718	GC44.BETTER/SAME
HRS 1996:	
E3046	G137.RETIREMENT YEARS BETTER/SAME
HRS 1998:	
F3577	G137.RETIREMENT YEARS BETTER/SAME
HRS 2000:	
G3866	G137.RETIREMENT YEARS BETTER/SAME
HRS 2002:	
HJ585	RETIREMENT YRS BETTER/SAME
HRS 2004:	
JJ585	RETIREMENT YRS BETTER/SAME
HRS 2006:	
KJ585	RETIREMENT YRS BETTER/SAME
HRS 2008:	
LJ585	RETIREMENT YRS BETTER/SAME
HRS 2010:	
MJ585	RETIREMENT YRS BETTER/SAME
HRS 2012:	
NJ585	RETIREMENT YRS BETTER/SAME
HRS 2014:	
OJ585	RETIREMENT YRS BETTER/SAME



## **Section J: Employment History**

### Currently working for pay

Wave	Variable	Label	Type
1	R1WORK	R1WORK:W1 R working for pay	Categ
2	R2WORK	R2WORK:W2 R working for pay	Categ
3	R3WORK	R3WORK:W3 R working for pay	Categ
4	R4WORK	R4WORK:W4 R working for pay	Categ
5	R5WORK	R5WORK:W5 R working for pay	Categ
6	R6WORK	R6WORK:W6 R working for pay	Categ
7	R7WORK	R7WORK:W7 R working for pay	Categ
8	R8WORK	R8WORK:W8 R working for pay	Categ
9	R9WORK	R9WORK:W9 R working for pay	Categ
10	R10WORK	R10WORK:W10 R working for pay	Categ
11	R11WORK	R11WORK:W11 R working for pay	Categ
12	R12WORK	R12WORK:W12 R working for pay	Categ
1	S1WORK	S1WORK:W1 S working for pay	Categ
2	S2WORK	S2WORK:W2 S working for pay	Categ
3	S3WORK	S3WORK:W3 S working for pay	Categ
4	S4WORK	S4WORK:W4 S working for pay	Categ
5	S5WORK	S5WORK:W5 S working for pay	Categ
6	S6WORK	S6WORK:W6 S working for pay	Categ
7	S7WORK	S7WORK:W7 S working for pay	Categ
8	S8WORK	S8WORK:W8 S working for pay	Categ
9	S9WORK	S9WORK:W9 S working for pay	Categ
10	S10WORK	S10WORK:W10 S working for pay	Categ
11	S11WORK	S11WORK:W11 S working for pay	Categ
12	S12WORK	S12WORK:W12 S working for pay	Categ
1	R1WORK2	R1WORK2:W1 Works at 2nd job	Categ
2	R2WORK2	R2WORK2:W2 Works at 2nd job	Categ
3	R3WORK2	R3WORK2:W3 Works at 2nd job	Categ
4	R4WORK2	R4WORK2:W4 Works at 2nd job	Categ
5	R5WORK2	R5WORK2:W5 Works at 2nd job	Categ
6	R6WORK2	R6WORK2:W6 Works at 2nd job	Categ
7	R7WORK2	R7WORK2:W7 Works at 2nd job	Categ
8	R8WORK2	R8WORK2:W8 Works at 2nd job	Categ
9	R9WORK2	R9WORK2:W9 Works at 2nd job	Categ
10	R10WORK2	R10WORK2:W10 Works at 2nd job	Categ
11	R11WORK2	R11WORK2:W11 Works at 2nd job	Categ
12	R12WORK2	R12WORK2:W12 Works at 2nd job	Categ
1	S1WORK2	S1WORK2:W1 Works at 2nd job	Categ
2	S2WORK2	S2WORK2:W2 Works at 2nd job	Categ
3	S3WORK2	S3WORK2:W3 Works at 2nd job	Categ
4	S4WORK2	S4WORK2:W4 Works at 2nd job	Categ
5	S5WORK2	S5WORK2:W5 Works at 2nd job	Categ
6	S6WORK2	S6WORK2:W6 Works at 2nd job	Categ
7	S7WORK2	S7WORK2:W7 Works at 2nd job	Categ
8	S8WORK2	S8WORK2:W8 Works at 2nd job	Categ
9	S9WORK2	S9WORK2:W9 Works at 2nd job	Categ
10	S10WORK2	S10WORK2:W10 Works at 2nd job	Categ
11	S11WORK2	S11WORK2:W11 Works at 2nd job	Categ
12	S12WORK2	S12WORK2:W12 Works at 2nd job	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK	12638	0.66	0.47	0.0	1.0
R2WORK	19611	0.40	0.49	0.0	1.0
R3WORK	17938	0.38	0.49	0.0	1.0
R4WORK	21341	0.39	0.49	0.0	1.0
R5WORK	19542	0.37	0.48	0.0	1.0

R6WORK	18144	0.33	0.47	0.0	1.0
R7WORK	20106	0.39	0.49	0.0	1.0
R8WORK	18456	0.36	0.48	0.0	1.0
R9WORK	17199	0.34	0.47	0.0	1.0
R10WORK	21826	0.41	0.49	0.0	1.0
R11WORK	20502	0.39	0.49	0.0	1.0
R12WORK	18708	0.37	0.48	0.0	1.0
S1WORK	9895	0.67	0.47	0.0	1.0
S2WORK	13082	0.46	0.50	0.0	1.0
S3WORK	11900	0.43	0.50	0.0	1.0
S4WORK	13968	0.45	0.50	0.0	1.0
S5WORK	12721	0.42	0.49	0.0	1.0
S6WORK	11631	0.39	0.49	0.0	1.0
S7WORK	12965	0.44	0.50	0.0	1.0
S8WORK	11732	0.42	0.49	0.0	1.0
S9WORK	10637	0.40	0.49	0.0	1.0
S10WORK	13394	0.46	0.50	0.0	1.0
S11WORK	12472	0.44	0.50	0.0	1.0
S12WORK	11012	0.42	0.49	0.0	1.0
R1WORK2	12638	0.08	0.28	0.0	1.0
R2WORK2	18833	0.04	0.20	0.0	1.0
R3WORK2	17672	0.04	0.19	0.0	1.0
R4WORK2	21261	0.04	0.20	0.0	1.0
R5WORK2	19486	0.03	0.18	0.0	1.0
R6WORK2	18107	0.03	0.17	0.0	1.0
R7WORK2	20015	0.04	0.20	0.0	1.0
R8WORK2	18346	0.04	0.19	0.0	1.0
R9WORK2	17087	0.04	0.19	0.0	1.0
R10WORK2	21671	0.05	0.22	0.0	1.0
R11WORK2	20300	0.05	0.21	0.0	1.0
R12WORK2	18561	0.04	0.20	0.0	1.0
S1WORK2	9895	0.08	0.27	0.0	1.0
S2WORK2	12557	0.05	0.21	0.0	1.0
S3WORK2	11725	0.04	0.20	0.0	1.0
S4WORK2	13915	0.04	0.21	0.0	1.0
S5WORK2	12683	0.04	0.19	0.0	1.0
S6WORK2	11599	0.04	0.19	0.0	1.0
S7WORK2	12899	0.05	0.22	0.0	1.0
S8WORK2	11650	0.04	0.20	0.0	1.0
S9WORK2	10562	0.04	0.19	0.0	1.0
S10WORK2	13293	0.06	0.23	0.0	1.0
S11WORK2	12336	0.06	0.23	0.0	1.0
S12WORK2	10920	0.05	0.22	0.0	1.0

## Categorical Variable Codes

Value	R1WORK	R2WORK	R3WORK	R4WORK	R5WORK	R6WORK	R7WORK
.D=DK		3	3			2	2
.M=Oth missing	14	24	46	34	29	11	11
.R=RF		4	4	9	8	8	10
0.Not working for pay	4268	11789	11121	12943	12339	12082	12265
1.Working for pay	8370	7822	6817	8398	7203	6062	7841

Value	R8WORK	R9WORK	R10WORK	R11WORK	R12WORK
.D=DK			2	4	3
.M=Oth missing	10	13	187	36	29
.R=RF	3	5	19	12	7
0.Not working for pay	11814	11321	12970	12545	11825
1.Working for pay	6642	5878	8856	7957	6883

Value	S1WORK	S2WORK	S3WORK	S4WORK	S5WORK	S6WORK	S7WORK
.D=DK						1	1
.M=Oth missing	5	4	14	8	7	3	1
.R=RF		2	1	2	2	4	5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Not working for pay	3300	7057	6727	7731	7341	7124	7202
1.Working for pay	6595	6025	5173	6237	5380	4507	5763

Value	S8WORK	S9WORK	S10WORK	S11WORK	S12WORK
.D=DK			1	3	2
.M=Oth missing	1	4	111	8	8
.R=RF	2	5	7	5	5
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Not working for pay	6859	6393	7286	6975	6338
1.Working for pay	4873	4244	6108	5497	4674

Value	R1WORK2	R2WORK2	R3WORK2	R4WORK2	R5WORK2	R6WORK2	R7WORK2
.D=DK			2	6	4	4	
.M=Oth missing	14	31	314	114	82	51	108
.Q=Not asked this wv		778					
.R=RF			3	3	7	3	6
0.Not working for pay	11591	18082	17007	20406	18827	17554	19154
1.Working for pay	1047	751	665	855	659	553	861

Value	R8WORK2	R9WORK2	R10WORK2	R11WORK2	R12WORK2
.D=DK		1	2	4	3
.M=Oth missing	121	126	359	242	180
.R=RF	2	3	2	8	3
0.Not working for pay	17659	16480	20579	19355	17752
1.Working for pay	687	607	1092	945	809

Value	S1WORK2	S2WORK2	S3WORK2	S4WORK2	S5WORK2	S6WORK2	S7WORK2
.D=DK			1	2	4	2	
.M=Oth missing	5	6	187	59	38	35	67
.Q=Not asked this wv		525					
.R=RF			2	2	5	3	6
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Not working for pay	9100	11967	11236	13295	12195	11175	12267
1.Working for pay	795	590	489	620	488	424	632
Value	S8WORK2	S9WORK2	S10WORK2	S11WORK2	S12WORK2		
.D=DK		1	1	3	2		
.M=Oth missing	83	82	218	144	102		
.R=RF	2	1	1	5	3		
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	317	365	722	592	593		
0.Not working for pay	11149	10156	12547	11649	10375		
1.Working for pay	501	406	746	687	545		

## How Constructed

RwWORK is derived from the question: "Are you currently working for pay?" It simply recodes this variable to a yes/no indicator and for missing values. In some waves a response of working but not for pay is allowed. This is treated as NOT working for pay.

RwWORK2 indicates whether the Respondent is working at a second job. If RwWORK is set to "0", then RwWORK2 is also "0" (No).

In Wave 1 the source variable for RwWORK is imputed in the HRS data. The imputation is not used, if imputed RwWORK is set to missing.

In Wave 2A, there is no question about a second job. So for the AHEAD Respondents, R2WORK2 is set to the .Q SAS special missing value, to indicate that no information is available.

In Wave 3A, RwWORK is also derived from the employment status question: "Are you working now, temporarily laid off, unemployed and looking for work, disabled and unable to work, retired, a homemaker, or what?" If there is no information in the question: "Are you currently working for pay?" and the Respondent reports "Working now" as employment status, then RwWORK is set to "1" (Yes).

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RwWORK and RwWORK2.

## Cross Wave Differences in Original HRS Data

The questions about working for pay and working a second job are the same across waves. The questions ask:

"Are you doing any work for pay at the present time?"

"Are you doing any other work for pay now, such as (another) business of your own, a second job or the military reserves?"

In Wave 1 the first question may have a response of "working but not for pay."

## HRS Variables Used

HRS 1992:	
V12717	F2:ANY WRK FOR PAY :IND
V2717	F2:ANY WRK FOR PAY :IMP
V3327	F86:DNG ANY OTR WRK :IMP
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
HRS 1994:	
W3316	FA2.WORKING FOR PAY
W3956	FA117.ANY OTHER PAID WOR
W4611	FB77.ANY OTHER PAID WORK
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2651	GA2.WORKING ANY CURRENT
D3110	GA117. ANY OTHER PAID WORK
HRS 1996:	
E2627	G2.WORKING FOR PAY
E3019	G128.ANY OTHER PAID WORK
HRS 1998:	
F3131	G2.WORKING FOR PAY
F3549	G128.ANY OTHER PAID WORK
HRS 2000:	
G3381	G2.WORKING FOR PAY
G3838	G128.ANY OTHER PAID WORK
HRS 2002:	
HJ020	WORKING FOR PAY
HJ553	ANY OTR PAID WORK
HRS 2004:	
JJ020	WORKING FOR PAY
JJ553	ANY OTR PAID WORK
HRS 2006:	
KJ020	WORKING FOR PAY
KJ553	ANY OTR PAID WORK
HRS 2008:	
LJ020	WORKING FOR PAY
LJ553	ANY OTR PAID WORK
HRS 2010:	
MJ020	WORKING FOR PAY
MJ553	ANY OTR PAID WORK
HRS 2012:	
NJ020	WORKING FOR PAY
NJ553	ANY OTR PAID WORK
HRS 2014:	
OJ020	WORKING FOR PAY
OJ553	ANY OTR PAID WORK

### Whether Self-Employed

Wave	Variable	Label	Type
1	R1SLFEMP	R1SLFEMP:W1 WHETHER SELF-EMPLOYED	Categ
2	R2SLFEMP	R2SLFEMP:W2 WHETHER SELF-EMPLOYED	Categ
3	R3SLFEMP	R3SLFEMP:W3 WHETHER SELF-EMPLOYED	Categ
4	R4SLFEMP	R4SLFEMP:W4 WHETHER SELF-EMPLOYED	Categ
5	R5SLFEMP	R5SLFEMP:W5 WHETHER SELF-EMPLOYED	Categ
6	R6SLFEMP	R6SLFEMP:W6 WHETHER SELF-EMPLOYED	Categ
7	R7SLFEMP	R7SLFEMP:W7 WHETHER SELF-EMPLOYED	Categ
8	R8SLFEMP	R8SLFEMP:W8 WHETHER SELF-EMPLOYED	Categ
9	R9SLFEMP	R9SLFEMP:W9 WHETHER SELF-EMPLOYED	Categ
10	R10SLFEMP	R10SLFEMP:W10 WHETHER SELF-EMPLOYED	Categ
11	R11SLFEMP	R11SLFEMP:W11 WHETHER SELF-EMPLOYED	Categ
12	R12SLFEMP	R12SLFEMP:W12 WHETHER SELF-EMPLOYED	Categ
1	S1SLFEMP	S1SLFEMP:W1 WHETHER SELF-EMPLOYED	Categ
2	S2SLFEMP	S2SLFEMP:W2 WHETHER SELF-EMPLOYED	Categ
3	S3SLFEMP	S3SLFEMP:W3 WHETHER SELF-EMPLOYED	Categ
4	S4SLFEMP	S4SLFEMP:W4 WHETHER SELF-EMPLOYED	Categ
5	S5SLFEMP	S5SLFEMP:W5 WHETHER SELF-EMPLOYED	Categ
6	S6SLFEMP	S6SLFEMP:W6 WHETHER SELF-EMPLOYED	Categ
7	S7SLFEMP	S7SLFEMP:W7 WHETHER SELF-EMPLOYED	Categ
8	S8SLFEMP	S8SLFEMP:W8 WHETHER SELF-EMPLOYED	Categ
9	S9SLFEMP	S9SLFEMP:W9 WHETHER SELF-EMPLOYED	Categ
10	S10SLFEMP	S10SLFEMP:W10 WHETHER SELF-EMPLOYED	Categ
11	S11SLFEMP	S11SLFEMP:W11 WHETHER SELF-EMPLOYED	Categ
12	S12SLFEMP	S12SLFEMP:W12 WHETHER SELF-EMPLOYED	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFEMP	8377	0.18	0.39	0.0	1.0
R2SLFEMP	7812	0.21	0.41	0.0	1.0
R3SLFEMP	6821	0.22	0.42	0.0	1.0
R4SLFEMP	8332	0.22	0.41	0.0	1.0
R5SLFEMP	7162	0.21	0.41	0.0	1.0
R6SLFEMP	6057	0.24	0.42	0.0	1.0
R7SLFEMP	7836	0.23	0.42	0.0	1.0
R8SLFEMP	6583	0.23	0.42	0.0	1.0
R9SLFEMP	5867	0.24	0.43	0.0	1.0
R10SLFEMP	8837	0.20	0.40	0.0	1.0
R11SLFEMP	7944	0.21	0.41	0.0	1.0
R12SLFEMP	6868	0.21	0.41	0.0	1.0
S1SLFEMP	6602	0.20	0.40	0.0	1.0
S2SLFEMP	6017	0.23	0.42	0.0	1.0
S3SLFEMP	5178	0.24	0.42	0.0	1.0
S4SLFEMP	6186	0.23	0.42	0.0	1.0
S5SLFEMP	5351	0.22	0.42	0.0	1.0
S6SLFEMP	4503	0.25	0.43	0.0	1.0
S7SLFEMP	5760	0.24	0.43	0.0	1.0
S8SLFEMP	4829	0.24	0.43	0.0	1.0
S9SLFEMP	4237	0.25	0.44	0.0	1.0
S10SLFEMP	6097	0.22	0.41	0.0	1.0
S11SLFEMP	5490	0.22	0.42	0.0	1.0
S12SLFEMP	4667	0.23	0.42	0.0	1.0

## Categorical Variable Codes

Value	R1SLFEMP	R2SLFEMP	R3SLFEMP	R4SLFEMP	R5SLFEMP	R6SLFEMP	R7SLFEMP
.D=DK/NA			4	3	1	4	2
.M=Oth missing	16	31	55	106	75	21	23
.R=RF		10	2		2	1	3
.W=Skip,not working	4259	11789	11109	12943	12339	12082	12265
0.Not self-employed	6847	6141	5297	6523	5643	4630	6068
1.Self-employed	1530	1671	1524	1809	1519	1427	1768
Value	R8SLFEMP	R9SLFEMP	R10SLFEMP	R11SLFEMP	R12SLFEMP		
.D=DK/NA	59	11	18	11	15		
.M=Oth missing	13	18	209	53	40		
.R=RF			1	1	1		
.W=Skip,not working	11814	11321	12969	12545	11823		
0.Not self-employed	5079	4447	7028	6284	5396		
1.Self-employed	1504	1420	1809	1660	1472		
Value	S1SLFEMP	S2SLFEMP	S3SLFEMP	S4SLFEMP	S5SLFEMP	S6SLFEMP	S7SLFEMP
.D=DK/NA			2	3	1	3	1
.M=Oth missing	5	6	17	58	36	8	7
.R=RF		8	1		1	1	2
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.W=Skip,not working	3293	7057	6717	7731	7341	7124	7202
0.Not self-employed	5314	4651	3961	4791	4167	3388	4373
1.Self-employed	1288	1366	1217	1395	1184	1115	1387
Value	S8SLFEMP	S9SLFEMP	S10SLFEMP	S11SLFEMP	S12SLFEMP		
.D=DK/NA	44	7	11	5	8		
.M=Oth missing	3	9	119	17	16		
.R=RF			1	1			
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	317	365	722	592	593		
.W=Skip,not working	6859	6393	7285	6975	6336		
0.Not self-employed	3667	3163	4771	4275	3615		
1.Self-employed	1162	1074	1326	1215	1052		

## How Constructed

RwSLFEMP is derived from the question: "Do you work for someone else, are you self-employed, or what?" regarding the current main job. The possible responses are someone else or self-employed. According to the HRS documentation, Respondents who said they ran their own businesses were recoded to self-employed. RwSLFEMP simply recodes this variable to a yes/no indicator and for missing values. If this question was skipped because the Respondent isn't working for pay, RwSLFEMP is set to SAS special missing value (.W).

There are some cases where RwWORK indicates that the Respondent is not working, but that have a value for whether the Respondent is self-employed. If a valid value is available for the self-employment question, it is used. In particular, from Wave 3H forward, this question is asked of Respondents who reported being temporarily laid off, or on sick or other leave who also said they intend to return to the same job, even if they are not currently working for pay. Respondents in this situation may have a value for RwSLFEMP.

In Wave 1 the source variable for RwSLFEMP is imputed in the HRS data. The imputation is not used, if imputed RwSLFEMP is set to missing.

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RwSLFEMP.



## Cross Wave Differences in Original HRS Data

The core of the question about whether working for a firm or oneself is the same across waves. The question asks:

"Do you work for someone else, are you self-employed, or what?"

In Waves 1, 2 and 3A, it is only asked of Respondents who are currently working for pay and is prefaced by:

"Next are some questions about your current, main job."

In Wave 3H and from Wave 4 forward, if the Respondent is currently working for pay, the question is prefaced by:

"On your current (main) job, ..."

For these waves, it is also asked of Respondents who report being temporarily laid off or on leave, if they also say they expect to go back to this job, in which case the question is prefaced by:

"On the job you plan to go back to, ..."

## HRS Variables Used

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HRS 1992:
V12717      F2:ANY WRK FOR PAY   :IND
V12718      F3:WHO WORK FOR     :IND
V2717       F2:ANY WRK FOR PAY   :IMP
V2718       F3:WHO WORK FOR     :IMP
AHEAD 1993:
B1174       G1. WORKING CURRENTLY?
B1178       G2. CURRENTLY SELF EMPLOYED
HRS 1994:
W3316       FA2.WORKING FOR PAY
W3317       FA3.WORK FOR SOMEONE ELS
AHEAD 1995:
D2626M1     GA1. CURRENT JOB STATUS
D2626M2     GA1. CURRENT JOB STATUS
D2626M3     GA1. CURRENT JOB STATUS
D2651       GA2.WORKING ANY CURRENT
D2653       GA3. SELF/OTHER EMPLOYED
HRS 1996:
E2627       G2.WORKING FOR PAY
E2628       G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
HRS 1998:
F3131       G2.WORKING FOR PAY
F3132       G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
HRS 2000:
G3381       G2.WORKING FOR PAY
G3382       G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
HRS 2002:
HJ020       WORKING FOR PAY
HJ021       WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2004:
JJ020       WORKING FOR PAY
JJ021       WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2006:
KJ020       WORKING FOR PAY

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KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2008:	
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2010:	
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2012:	
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HRS 2014:	
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED

### Same Employer or Same Job Title as previous Wave

Wave	Variable	Label	Type
2	R2SAMEMP	R2SAMEMP:W2 Same Employer as Last Wave	Categ
3	R3SAMEMP	R3SAMEMP:W3 Same Employer as Last Wave	Categ
4	R4SAMEMP	R4SAMEMP:W4 Same Employer as Last Wave	Categ
5	R5SAMEMP	R5SAMEMP:W5 Same Employer as Last Wave	Categ
6	R6SAMEMP	R6SAMEMP:W6 Same Employer as Last Wave	Categ
7	R7SAMEMP	R7SAMEMP:W7 Same Employer as Last Wave	Categ
8	R8SAMEMP	R8SAMEMP:W8 Same Employer as Last Wave	Categ
9	R9SAMEMP	R9SAMEMP:W9 Same Employer as Last Wave	Categ
10	R10SAMEMP	R10SAMEMP:W10 Same Employer as Last Wave	Categ
11	R11SAMEMP	R11SAMEMP:W11 Same Employer as Last Wave	Categ
12	R12SAMEMP	R12SAMEMP:W12 Same Employer as Last Wave	Categ
2	S2SAMEMP	S2SAMEMP:W2 Same Employer as Last Wave	Categ
3	S3SAMEMP	S3SAMEMP:W3 Same Employer as Last Wave	Categ
4	S4SAMEMP	S4SAMEMP:W4 Same Employer as Last Wave	Categ
5	S5SAMEMP	S5SAMEMP:W5 Same Employer as Last Wave	Categ
6	S6SAMEMP	S6SAMEMP:W6 Same Employer as Last Wave	Categ
7	S7SAMEMP	S7SAMEMP:W7 Same Employer as Last Wave	Categ
8	S8SAMEMP	S8SAMEMP:W8 Same Employer as Last Wave	Categ
9	S9SAMEMP	S9SAMEMP:W9 Same Employer as Last Wave	Categ
10	S10SAMEMP	S10SAMEMP:W10 Same Employer as Last Wave	Categ
11	S11SAMEMP	S11SAMEMP:W11 Same Employer as Last Wave	Categ
12	S12SAMEMP	S12SAMEMP:W12 Same Employer as Last Wave	Categ
2	R2SAMEJOB	R2SAMEJOB:W2 Same Job title as last Wave	Categ
3	R3SAMEJOB	R3SAMEJOB:W3 Same Job title as last Wave	Categ
4	R4SAMEJOB	R4SAMEJOB:W4 Same Job title as last Wave	Categ
5	R5SAMEJOB	R5SAMEJOB:W5 Same Job title as last Wave	Categ
6	R6SAMEJOB	R6SAMEJOB:W6 Same Job title as last Wave	Categ
7	R7SAMEJOB	R7SAMEJOB:W7 Same Job title as last Wave	Categ
8	R8SAMEJOB	R8SAMEJOB:W8 Same Job title as last Wave	Categ
9	R9SAMEJOB	R9SAMEJOB:W9 Same Job title as last Wave	Categ
10	R10SAMEJOB	R10SAMEJOB:W10 Same Job title as last Wave	Categ
11	R11SAMEJOB	R11SAMEJOB:W11 Same Job title as last Wave	Categ
12	R12SAMEJOB	R12SAMEJOB:W12 Same Job title as last Wave	Categ
2	S2SAMEJOB	S2SAMEJOB:W2 Same Job title as last Wave	Categ
3	S3SAMEJOB	S3SAMEJOB:W3 Same Job title as last Wave	Categ
4	S4SAMEJOB	S4SAMEJOB:W4 Same Job title as last Wave	Categ
5	S5SAMEJOB	S5SAMEJOB:W5 Same Job title as last Wave	Categ
6	S6SAMEJOB	S6SAMEJOB:W6 Same Job title as last Wave	Categ
7	S7SAMEJOB	S7SAMEJOB:W7 Same Job title as last Wave	Categ
8	S8SAMEJOB	S8SAMEJOB:W8 Same Job title as last Wave	Categ
9	S9SAMEJOB	S9SAMEJOB:W9 Same Job title as last Wave	Categ
10	S10SAMEJOB	S10SAMEJOB:W10 Same Job title as last Wave	Categ
11	S11SAMEJOB	S11SAMEJOB:W11 Same Job title as last Wave	Categ
12	S12SAMEJOB	S12SAMEJOB:W12 Same Job title as last Wave	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2SAMEMP	6974	0.81	0.39	0.0	1.0
R3SAMEMP	6689	0.78	0.42	0.0	1.0
R4SAMEMP	5845	0.77	0.42	0.0	1.0
R5SAMEMP	7037	0.78	0.42	0.0	1.0
R6SAMEMP	5940	0.72	0.45	0.0	1.0
R7SAMEMP	5207	0.76	0.43	0.0	1.0
R8SAMEMP	6509	0.78	0.42	0.0	1.0
R9SAMEMP	5793	0.79	0.40	0.0	1.0

R10SAMEMP	4739	0.80	0.40	0.0	1.0
R11SAMEMP	7745	0.78	0.41	0.0	1.0
R12SAMEMP	6753	0.79	0.41	0.0	1.0
S2SAMEMP	5435	0.81	0.39	0.0	1.0
S3SAMEMP	5060	0.79	0.41	0.0	1.0
S4SAMEMP	4325	0.78	0.42	0.0	1.0
S5SAMEMP	5231	0.78	0.41	0.0	1.0
S6SAMEMP	4394	0.72	0.45	0.0	1.0
S7SAMEMP	3822	0.77	0.42	0.0	1.0
S8SAMEMP	4748	0.78	0.41	0.0	1.0
S9SAMEMP	4162	0.81	0.40	0.0	1.0
S10SAMEMP	3347	0.81	0.39	0.0	1.0
S11SAMEMP	5310	0.80	0.40	0.0	1.0
S12SAMEMP	4570	0.80	0.40	0.0	1.0
R2SAMEJOB	6650	0.74	0.44	0.0	1.0
R3SAMEJOB	6299	0.71	0.45	0.0	1.0
R4SAMEJOB	5538	0.65	0.48	0.0	1.0
R5SAMEJOB	6852	0.71	0.45	0.0	1.0
R6SAMEJOB	5714	0.66	0.47	0.0	1.0
R7SAMEJOB	5174	0.71	0.45	0.0	1.0
R8SAMEJOB	4722	0.64	0.48	0.0	1.0
R9SAMEJOB	5723	0.73	0.44	0.0	1.0
R10SAMEJOB	4727	0.74	0.44	0.0	1.0
R11SAMEJOB	7737	0.73	0.44	0.0	1.0
R12SAMEJOB	6748	0.73	0.44	0.0	1.0
S2SAMEJOB	5188	0.75	0.44	0.0	1.0
S3SAMEJOB	4806	0.72	0.45	0.0	1.0
S4SAMEJOB	4107	0.66	0.47	0.0	1.0
S5SAMEJOB	5097	0.72	0.45	0.0	1.0
S6SAMEJOB	4218	0.66	0.47	0.0	1.0
S7SAMEJOB	3799	0.72	0.45	0.0	1.0
S8SAMEJOB	3469	0.66	0.47	0.0	1.0
S9SAMEJOB	4119	0.75	0.44	0.0	1.0
S10SAMEJOB	3339	0.76	0.43	0.0	1.0
S11SAMEJOB	5304	0.74	0.44	0.0	1.0
S12SAMEJOB	4567	0.74	0.44	0.0	1.0

## Categorical Variable Codes

Value	R2SAMEMP	R3SAMEMP	R4SAMEMP	R5SAMEMP	R6SAMEMP	R7SAMEMP
.D=DK/NA		1	3	1		
.M=Oth missing	43	9	19	22	6	6
.P=No Previous Interview	7921	242	4582	239	196	3036
.R=RF				1	3	
.S=R is Self Employed	298	28	509	26	31	436
.W=Skip,not working	4406	11022	10426	12253	11989	11444
0.Not the same Employer as	1348	1482	1340	1577	1688	1254
1.Same Employer as Previous	5626	5207	4505	5460	4252	3953

Value	R8SAMEMP	R9SAMEMP	R10SAMEMP	R11SAMEMP	R12SAMEMP
.D=DK/NA	4		2	2	2
.M=Oth missing	17	13	13	23	31
.P=No Previous Interview	184	129	5813	290	153
.R=RF		1		1	2
.S=R is Self Employed	24	14	626	41	25
.W=Skip,not working	11731	11267	10841	12452	11781
0.Not the same Employer as	1461	1189	970	1683	1432
1.Same Employer as Previous	5048	4604	3769	6062	5321

Value	R2SAMEJOB	R3SAMEJOB	R4SAMEJOB	R5SAMEJOB	R6SAMEJOB	R7SAMEJOB
.D=DK/NA		1				
.M=Oth missing	366	137	329	208	235	39
.P=No Previous Interview	7921	242	4582	239	196	3036
.Q=Not asked this wv		263				
.R=RF				1		
.S=R is Self Employed	298	28	509	26	31	436
.W=Skip,not working	4406	11022	10426	12253	11989	11444
0.Not the same Job as Previ	1749	1843	1947	1981	1955	1507
1.Same Job as Previous Wave	4901	4456	3591	4871	3759	3667

Value	R8SAMEJOB	R9SAMEJOB	R10SAMEJOB	R11SAMEJOB	R12SAMEJOB
.D=DK/NA		1	4		
.M=Oth missing	1808	83	23	34	39
.P=No Previous Interview	184	129	5813	290	153
.R=RF					1
.S=R is Self Employed	24	14	626	41	25
.W=Skip,not working	11731	11267	10841	12452	11781
0.Not the same Job as Previ	1691	1531	1208	2099	1793
1.Same Job as Previous Wave	3031	4192	3519	5638	4955

Value	S2SAMEMP	S3SAMEMP	S4SAMEMP	S5SAMEMP	S6SAMEMP	S7SAMEMP
.D=DK/NA		1	3	1		
.M=Oth missing	38	3	16	13	6	5
.P=No Previous Interview	4140	215	3125	222	181	2142
.R=RF					1	
.S=R is Self Employed	208	25	379	25	29	343
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.W=Skip,not working	3267	6611	6130	7238	7028	6660
0.Not the same Employer as	1014	1079	970	1147	1226	887
1.Same Employer as Previous	4421	3981	3355	4084	3168	2935

Value	S8SAMEMP	S9SAMEMP	S10SAMEMP	S11SAMEMP	S12SAMEMP
.D=DK/NA	4		2	1	1
.M=Oth missing	14	12	6	9	14
.P=No Previous Interview	176	126	3649	273	144
.R=RF		1		1	1
.S=R is Self Employed	23	13	447	40	23
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6770	6332	6062	6854	6274
0.Not the same Employer as	1024	806	633	1084	907
1.Same Employer as Previous	3724	3356	2714	4226	3663

Value	S2SAMEJOB	S3SAMEJOB	S4SAMEJOB	S5SAMEJOB	S6SAMEJOB	S7SAMEJOB
.D=DK/NA	1					
.M=Oth missing	284	89	237	147	183	28
.P=No Previous Interview	4140	215	3125	222	181	2142
.Q=Not asked this wv		169				
.R=RF				1		
.S=R is Self Employed	208	25	379	25	29	343
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	584	418	537	311	220	380
.W=Skip,not working	3267	6611	6130	7238	7028	6660
0.Not the same Job as Previ	1315	1350	1408	1439	1428	1071
1.Same Job as Previous Wave	3873	3456	2699	3658	2790	2728

Value	S8SAMEJOB	S9SAMEJOB	S10SAMEJOB	S11SAMEJOB	S12SAMEJOB
.D=DK/NA			2		
.M=Oth missing	1297	56	14	17	19
.P=No Previous Interview	176	126	3649	273	144
.S=R is Self Employed	23	13	447	40	23
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6770	6332	6062	6854	6274
0.Not the same Job as Previ	1187	1046	808	1369	1165
1.Same Job as Previous Wave	2282	3073	2531	3935	3402

## How Constructed

RwSAMEMP is 1 if the Respondent reports working for the same employer as the previous wave. If the Respondent is self-employed in both the current and previous wave, RwSAMEMP is also 1. If this is the Respondents first interview, RwSAMEMP=.P. If the Respondent is not working, RwSAMEMP=.W.

This variable is derived from the question in the Employment section:

"STILL WORKING PREV EMPLOYER According to our records, in [Previous Wave Month] [Previous Wave Year] you were [working for [Prev Wave Old Employer Name]/someone else]. Are you still working [there/for that same employer]?"

RwSAMEJOB is 1 if the Respondent reports having the same job as the previous interview. If this is the Respondents first interview, RwSAMEJOB=.P. If the Respondent is not working, RwSAMEJOB=.W.

Until Wave 12, if the Respondent reports being self-employed in the current wave and the previous wave, RwSAMEJOB=1. From Wave 12, an additional question is asked about if the business has changed. If the Respondent reports the business has changed from the previous wave, RwSAMEJOB=0.

This variable is derived from the following questions in the Employment Section:

"SAME JOB TITLE AS PREVIOUS WAVE [In [Prev IW Month] [Prev IW Year] our records indicate that your job title was [Prev Wave Job Title]. Is this still the case? / Is your job title still the same as it was in [Prev IW Month] [Prev IW Year]?]"

"WORK FOR SOMEONE ELSE/SLF-EMPLOYED According to our records, in [Prev Wave IW Month] [Prev Wave IW Year] you were self-employed. Do you have the same business that you had in [Prev Wave IW Month] [Prev Wave IW Year] or is it a different business?"

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RwSAMEMP and RwSAMEJOB.

## Cross Wave Differences in Original HRS Data

1995 Ahead does not ask the question about having the same job title as last wave so we set R3SAMEJOB = .Q.

In Wave 8 a number Respondents were not asked the question about same job title, if they reported working for the same employer as the last wave. We set R8SAMEJOB=.Q for these cases. This was part of an experimental skip pattern that was not repeated in subsequent waves.

## HRS Variables Used

### AHEAD 1993:

B1174 G1. WORKING CURRENTLY?

### HRS 1994:

W3316 FA2.WORKING FOR PAY

W3458 FA19.STILL WORKING FOR W

W3502 FA21.SAME JOB TITLE AS W

### AHEAD 1995:

D2747 GA19. STILL WORKING SAME EMPLOYER

### HRS 1996:

E2627 G2.WORKING FOR PAY

E2654 G19A.STILL WORKNG FOR PREV WAVE EMPLOYER

E2655 G19B.STILL WORKING PREV EMPLOYER

E2662 G21.SAME JOB TITLE AS PREVIOUS WAVE

### HRS 1998:

F3131 G2.WORKING FOR PAY

F3158 G19A.STILL WORKING FOR PREV WAVE EMPLOYE

F3166 G19B.STILL WORKING PREV EMPLOYER

F3183 G21.SAME JOB TITLE AS PREVIOUS WAVE

### HRS 2000:

G3381 G2.WORKING FOR PAY

G3416 G19B.STILL WORKING PREV EMPLOYER

G3432	G21.SAME JOB TITLE AS PREVIOUS WAVE
HRS 2002:	
HJ020	WORKING FOR PAY
HJ045	STILL WORKING PREV EMPLOYER
HJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2004:	
JJ020	WORKING FOR PAY
JJ045	STILL WORKING PREV EMPLOYER
JJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2006:	
KJ020	WORKING FOR PAY
KJ045	STILL WORKING PREV EMPLOYER
KJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2008:	
LJ020	WORKING FOR PAY
LJ045	STILL WORKING PREV EMPLOYER
LJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2010:	
MJ020	WORKING FOR PAY
MJ045	STILL WORKING PREV EMPLOYER
MJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2012:	
NJ020	WORKING FOR PAY
NJ045	STILL WORKING PREV EMPLOYER
NJ058	SAME JOB TITLE AS PREVIOUS WAVE
HRS 2014:	
OJ020	WORKING FOR PAY
OJ045	STILL WORKING PREV EMPLOYER
OJ058	SAME JOB TITLE AS PREVIOUS WAVE
OJ958	WORK FOR SOMEONE ELSE/SLF-EMPLOYED



<b>Labor Force Status</b>
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Wave	Variable	Label	Type
1	R1LBRF	R1LBRF:W1 R Labor Force Status	Categ
2	R2LBRF	R2LBRF:W2 R Labor Force Status	Categ
3	R3LBRF	R3LBRF:W3 R Labor Force Status	Categ
4	R4LBRF	R4LBRF:W4 R Labor Force Status	Categ
5	R5LBRF	R5LBRF:W5 R Labor Force Status	Categ
6	R6LBRF	R6LBRF:W6 R Labor Force Status	Categ
7	R7LBRF	R7LBRF:W7 R Labor Force Status	Categ
8	R8LBRF	R8LBRF:W8 R Labor Force Status	Categ
9	R9LBRF	R9LBRF:W9 R Labor Force Status	Categ
10	R10LBRF	R10LBRF:W10 R Labor Force Status	Categ
11	R11LBRF	R11LBRF:W11 R Labor Force Status	Categ
12	R12LBRF	R12LBRF:W12 R Labor Force Status	Categ
1	S1LBRF	S1LBRF:W1 S Labor Force Status	Categ
2	S2LBRF	S2LBRF:W2 S Labor Force Status	Categ
3	S3LBRF	S3LBRF:W3 S Labor Force Status	Categ
4	S4LBRF	S4LBRF:W4 S Labor Force Status	Categ
5	S5LBRF	S5LBRF:W5 S Labor Force Status	Categ
6	S6LBRF	S6LBRF:W6 S Labor Force Status	Categ
7	S7LBRF	S7LBRF:W7 S Labor Force Status	Categ
8	S8LBRF	S8LBRF:W8 S Labor Force Status	Categ
9	S9LBRF	S9LBRF:W9 S Labor Force Status	Categ
10	S10LBRF	S10LBRF:W10 S Labor Force Status	Categ
11	S11LBRF	S11LBRF:W11 S Labor Force Status	Categ
12	S12LBRF	S12LBRF:W12 S Labor Force Status	Categ
1	R1LBRFH	R1LBRFH:W1 Labor Force Status, No Week Restriction	Categ
2	R2LBRFH	R2LBRFH:W2 Labor Force Status, No Week Restriction	Categ
3	R3LBRFH	R3LBRFH:W3 Labor Force Status, No Week Restriction	Categ
4	R4LBRFH	R4LBRFH:W4 Labor Force Status, No Week Restriction	Categ
5	R5LBRFH	R5LBRFH:W5 Labor Force Status, No Week Restriction	Categ
6	R6LBRFH	R6LBRFH:W6 Labor Force Status, No Week Restriction	Categ
7	R7LBRFH	R7LBRFH:W7 Labor Force Status, No Week Restriction	Categ
8	R8LBRFH	R8LBRFH:W8 Labor Force Status, No Week Restriction	Categ
9	R9LBRFH	R9LBRFH:W9 Labor Force Status, No Week Restriction	Categ
10	R10LBRFH	R10LBRFH:W10 Labor Force Status, No Week Restriction	Categ
11	R11LBRFH	R11LBRFH:W11 Labor Force Status, No Week Restriction	Categ
12	R12LBRFH	R12LBRFH:W12 Labor Force Status, No Week Restriction	Categ
1	S1LBRFH	S1LBRFH:W1 Labor Force Status, No Week Restriction	Categ
2	S2LBRFH	S2LBRFH:W2 Labor Force Status, No Week Restriction	Categ
3	S3LBRFH	S3LBRFH:W3 Labor Force Status, No Week Restriction	Categ
4	S4LBRFH	S4LBRFH:W4 Labor Force Status, No Week Restriction	Categ
5	S5LBRFH	S5LBRFH:W5 Labor Force Status, No Week Restriction	Categ
6	S6LBRFH	S6LBRFH:W6 Labor Force Status, No Week Restriction	Categ
7	S7LBRFH	S7LBRFH:W7 Labor Force Status, No Week Restriction	Categ
8	S8LBRFH	S8LBRFH:W8 Labor Force Status, No Week Restriction	Categ
9	S9LBRFH	S9LBRFH:W9 Labor Force Status, No Week Restriction	Categ
10	S10LBRFH	S10LBRFH:W10 Labor Force Status, No Week Restriction	Categ
11	S11LBRFH	S11LBRFH:W11 Labor Force Status, No Week Restriction	Categ
12	S12LBRFH	S12LBRFH:W12 Labor Force Status, No Week Restriction	Categ
1	R1LBRFY	R1LBRFY:W1 Labor Force Status Year Round Flag	Categ
2	R2LBRFY	R2LBRFY:W2 Labor Force Status Year Round Flag	Categ
3	R3LBRFY	R3LBRFY:W3 Labor Force Status Year Round Flag	Categ
4	R4LBRFY	R4LBRFY:W4 Labor Force Status Year Round Flag	Categ
5	R5LBRFY	R5LBRFY:W5 Labor Force Status Year Round Flag	Categ
6	R6LBRFY	R6LBRFY:W6 Labor Force Status Year Round Flag	Categ
7	R7LBRFY	R7LBRFY:W7 Labor Force Status Year Round Flag	Categ
8	R8LBRFY	R8LBRFY:W8 Labor Force Status Year Round Flag	Categ
9	R9LBRFY	R9LBRFY:W9 Labor Force Status Year Round Flag	Categ
10	R10LBRFY	R10LBRFY:W10 Labor Force Status Year Round Flag	Categ
11	R11LBRFY	R11LBRFY:W11 Labor Force Status Year Round Flag	Categ
12	R12LBRFY	R12LBRFY:W12 Labor Force Status Year Round Flag	Categ
1	S1LBRFY	S1LBRFY:W1 Labor Force Status Year Round Flag	Categ

2	S2LBRFY	S2LBRFY:W2 Labor Force Status Year Round Flag	Categ
3	S3LBRFY	S3LBRFY:W3 Labor Force Status Year Round Flag	Categ
4	S4LBRFY	S4LBRFY:W4 Labor Force Status Year Round Flag	Categ
5	S5LBRFY	S5LBRFY:W5 Labor Force Status Year Round Flag	Categ
6	S6LBRFY	S6LBRFY:W6 Labor Force Status Year Round Flag	Categ
7	S7LBRFY	S7LBRFY:W7 Labor Force Status Year Round Flag	Categ
8	S8LBRFY	S8LBRFY:W8 Labor Force Status Year Round Flag	Categ
9	S9LBRFY	S9LBRFY:W9 Labor Force Status Year Round Flag	Categ
10	S10LBRFY	S10LBRFY:W10 Labor Force Status Year Round Flag	Categ
11	S11LBRFY	S11LBRFY:W11 Labor Force Status Year Round Flag	Categ
12	S12LBRFY	S12LBRFY:W12 Labor Force Status Year Round Flag	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LBRF	12652	2.75	2.21	1.0	7.0
R2LBRF	16489	3.42	2.06	1.0	7.0
R3LBRF	17991	3.98	2.06	1.0	7.0
R4LBRF	21384	3.94	2.07	1.0	7.0
R5LBRF	19579	4.08	2.04	1.0	7.0
R6LBRF	18165	4.21	1.96	1.0	7.0
R7LBRF	20129	3.92	2.00	1.0	7.0
R8LBRF	18469	4.03	1.92	1.0	7.0
R9LBRF	17217	4.08	1.86	1.0	7.0
R10LBRF	22034	3.72	1.94	1.0	7.0
R11LBRF	20554	3.77	1.88	1.0	7.0
R12LBRF	18747	3.86	1.83	1.0	7.0
S1LBRF	9900	2.75	2.22	1.0	7.0
S2LBRF	11605	3.28	2.09	1.0	7.0
S3LBRF	11915	3.76	2.10	1.0	7.0
S4LBRF	13978	3.74	2.11	1.0	7.0
S5LBRF	12730	3.86	2.09	1.0	7.0
S6LBRF	11639	4.00	2.02	1.0	7.0
S7LBRF	12972	3.71	2.05	1.0	7.0
S8LBRF	11735	3.83	1.98	1.0	7.0
S9LBRF	10646	3.87	1.93	1.0	7.0
S10LBRF	13513	3.55	1.99	1.0	7.0
S11LBRF	12488	3.58	1.94	1.0	7.0
S12LBRF	11027	3.66	1.91	1.0	7.0
R1LBRFH	12652	2.73	2.22	1.0	7.0
R2LBRFH	16489	3.41	2.07	1.0	7.0
R3LBRFH	17991	3.96	2.07	1.0	7.0
R4LBRFH	21384	3.92	2.08	1.0	7.0
R5LBRFH	19579	4.06	2.06	1.0	7.0
R6LBRFH	18165	4.19	1.98	1.0	7.0
R7LBRFH	20129	3.90	2.02	1.0	7.0
R8LBRFH	18469	4.01	1.94	1.0	7.0
R9LBRFH	17217	4.06	1.87	1.0	7.0
R10LBRFH	22034	3.70	1.95	1.0	7.0
R11LBRFH	20554	3.75	1.90	1.0	7.0
R12LBRFH	18747	3.84	1.85	1.0	7.0
S1LBRFH	9900	2.72	2.22	1.0	7.0
S2LBRFH	11605	3.26	2.10	1.0	7.0
S3LBRFH	11915	3.74	2.11	1.0	7.0

S4LBRFH	13978	3.72	2.13	1.0	7.0
S5LBRFH	12730	3.84	2.11	1.0	7.0
S6LBRFH	11639	3.97	2.04	1.0	7.0
S7LBRFH	12972	3.68	2.07	1.0	7.0
S8LBRFH	11735	3.80	2.00	1.0	7.0
S9LBRFH	10646	3.85	1.94	1.0	7.0
S10LBRFH	13513	3.52	2.01	1.0	7.0
S11LBRFH	12488	3.56	1.96	1.0	7.0
S12LBRFH	11027	3.64	1.93	1.0	7.0
R1LBRFY	7852	0.86	0.35	0.0	1.0
R2LBRFY	7211	0.84	0.37	0.0	1.0
R3LBRFY	5671	0.83	0.37	0.0	1.0
R4LBRFY	6876	0.84	0.36	0.0	1.0
R5LBRFY	5740	0.83	0.37	0.0	1.0
R6LBRFY	4712	0.83	0.38	0.0	1.0
R7LBRFY	6263	0.84	0.37	0.0	1.0
R8LBRFY	5154	0.85	0.36	0.0	1.0
R9LBRFY	4466	0.84	0.37	0.0	1.0
R10LBRFY	7197	0.81	0.39	0.0	1.0
R11LBRFY	6341	0.81	0.39	0.0	1.0
R12LBRFY	5336	0.79	0.41	0.0	1.0
S1LBRFY	6178	0.85	0.36	0.0	1.0
S2LBRFY	5549	0.84	0.37	0.0	1.0
S3LBRFY	4310	0.83	0.38	0.0	1.0
S4LBRFY	5126	0.84	0.37	0.0	1.0
S5LBRFY	4328	0.83	0.38	0.0	1.0
S6LBRFY	3544	0.81	0.39	0.0	1.0
S7LBRFY	4669	0.83	0.37	0.0	1.0
S8LBRFY	3848	0.84	0.36	0.0	1.0
S9LBRFY	3263	0.83	0.37	0.0	1.0
S10LBRFY	5004	0.81	0.39	0.0	1.0
S11LBRFY	4456	0.81	0.40	0.0	1.0
S12LBRFY	3699	0.79	0.41	0.0	1.0

## Categorical Variable Codes

Value	R1LBRF	R2LBRF	R3LBRF	R4LBRF	R5LBRF	R6LBRF	R7LBRF
.A=65+,presumed retired		2971					
.Q=Not asked,Lt65,not worke		46					
.T=Worked last 2 yr,now not		136					
1.Works FT	6633	5614	4690	5728	4723	3773	5182
2.Works PT	1285	1624	962	1162	1025	916	1119
3.Unemployed	408	323	233	239	207	246	313
4.Partly retired	452	584	1165	1508	1455	1373	1540
5.Retired	2027	6801	8178	9448	8849	8819	9451
6.Disabled	483	522	648	848	769	642	563
7.Not in LbrF	1364	1021	2115	2451	2551	2396	1961

Value	R8LBRF	R9LBRF	R10LBRF	R11LBRF	R12LBRF
1.Works FT	4223	3682	5979	5323	4484
2.Works PT	932	781	1382	1209	1029
3.Unemployed	215	238	899	661	416
4.Partly retired	1487	1415	1495	1434	1374
5.Retired	9480	9363	10388	10491	10297
6.Disabled	519	424	633	540	424
7.Not in LbrF	1613	1314	1258	896	723

Value	S1LBRF	S2LBRF	S3LBRF	S4LBRF	S5LBRF	S6LBRF	S7LBRF
.A=65+,presumed retired		1352					
.Q=Not asked,Lt65,not worke		45					
.T=Worked last 2 yr,now not		86					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Works FT	5196	4343	3565	4294	3579	2838	3858
2.Works PT	1018	1207	717	836	749	679	819
3.Unemployed	297	206	157	162	141	162	212
4.Partly retired	381	475	891	1107	1052	990	1086
5.Retired	1604	4288	4983	5615	5334	5285	5541
6.Disabled	263	268	307	414	360	310	271
7.Not in LbrF	1141	818	1295	1550	1515	1375	1185

Value	S8LBRF	S9LBRF	S10LBRF	S11LBRF	S12LBRF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Works FT	3135	2687	4165	3728	3114
2.Works PT	695	561	928	839	685
3.Unemployed	135	154	565	414	254
4.Partly retired	1043	996	1015	933	878
5.Retired	5525	5278	5700	5728	5417
6.Disabled	249	187	310	251	196
7.Not in LbrF	953	783	830	595	483

Value	R1LBRFH	R2LBRFH	R3LBRFH	R4LBRFH	R5LBRFH	R6LBRFH	R7LBRFH
.A=65+,presumed retired		2971					
.Q=Not asked,Lt65,not worke		46					
.T=Worked last 2 yr,now not		136					
1.Works FT	6855	5797	4872	5940	4922	3957	5401
2.Works PT	1109	1490	852	1041	910	828	980
3.Unemployed	408	323	233	239	207	246	313
4.Partly retired	406	535	1093	1417	1371	1277	1460
5.Retired	2027	6801	8178	9448	8849	8819	9451
6.Disabled	483	522	648	848	769	642	563
7.Not in LbrF	1364	1021	2115	2451	2551	2396	1961

Value	R8LBRFH	R9LBRFH	R10LBRFH	R11LBRFH	R12LBRFH
1.Works FT	4410	3842	6249	5555	4695
2.Works PT	820	695	1196	1055	896
3.Unemployed	215	238	899	661	416
4.Partly retired	1412	1341	1411	1356	1296
5.Retired	9480	9363	10388	10491	10297
6.Disabled	519	424	633	540	424
7.Not in LbrF	1613	1314	1258	896	723

Value	S1LBRFH	S2LBRFH	S3LBRFH	S4LBRFH	S5LBRFH	S6LBRFH	S7LBRFH
.A=65+,presumed retired		1352					
.Q=Not asked,Lt65,not worke		45					
.T=Worked last 2 yr,now not		86					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Works FT	5368	4493	3713	4461	3734	2983	4029
2.Works PT	888	1100	632	745	666	615	717
3.Unemployed	297	206	157	162	141	162	212
4.Partly retired	339	432	828	1031	980	909	1017
5.Retired	1604	4288	4983	5615	5334	5285	5541
6.Disabled	263	268	307	414	360	310	271
7.Not in LbrF	1141	818	1295	1550	1515	1375	1185

Value	S8LBRFH	S9LBRFH	S10LBRFH	S11LBRFH	S12LBRFH
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Works FT	3280	2801	4359	3901	3262
2.Works PT	615	503	800	722	590
3.Unemployed	135	154	565	414	254
4.Partly retired	978	940	949	877	825
5.Retired	5525	5278	5700	5728	5417
6.Disabled	249	187	310	251	196
7.Not in LbrF	953	783	830	595	483

Value	R1LBRFY	R2LBRFY	R3LBRFY	R4LBRFY	R5LBRFY	R6LBRFY	R7LBRFY
.M=Oth missing	112	76	53	105	92	73	118
.S=Not Working FT/PT	4688	12355	12267	14403	13747	13380	13748
0.Works Part Year	1135	1155	936	1075	957	819	1009
1.Works Year Round	6717	6056	4735	5801	4783	3893	5254

Value	R8LBRFY	R9LBRFY	R10LBRFY	R11LBRFY	R12LBRFY
.M=Oth missing	76	71	248	269	255
.S=Not Working FT/PT	13239	12680	14589	13944	13156
0.Works Part Year	796	720	1335	1206	1112
1.Works Year Round	4358	3746	5862	5135	4224

Value	S1LBRFY	S2LBRFY	S3LBRFY	S4LBRFY	S5LBRFY	S6LBRFY	S7LBRFY
.M=Oth missing	78	44	35	80	72	54	77
.S=Not Working FT/PT	3644	7495	7570	8772	8330	8041	8226
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Works Part Year	916	888	731	823	745	660	780
1.Works Year Round	5262	4661	3579	4303	3583	2884	3889

Value	S8LBRFY	S9LBRFY	S10LBRFY	S11LBRFY	S12LBRFY
.M=Oth missing	47	41	155	167	153
.S=Not Working FT/PT	7840	7342	8354	7865	7175
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.Works Part Year	604	539	941	864	794
1.Works Year Round	3244	2724	4063	3592	2905

## How Constructed

RwLBRF summarizes the labor force status for the Respondent at each wave as working full-time, working part-time, unemployed, partly retired, retired, disabled, or not in the labor force. SwLBRF summarizes the labor force status for the Respondent's spouse or partner.

The derivation uses many different questions that are available each wave. A Respondent can give evidence of working, being retired, and disability alone or in combination with other statuses. RwLBRF attempts to pull information from several sources, and sort through the discrepancies. Working and retirement take precedence in its derivation.

If the Respondent is working full-time, RwLBRF is set to this status. If s/he is working part-time and mentions retirement, RwLBRF is set to partly retired. If there is no mention of retirement, RwLBRF is set to working part-time.

If the Respondent is not working but is looking for a job, RwLBRF is set to unemployed. If the Respondent is not looking for a job and there is any mention of retirement, RwLBRF is set to retired. If retirement is not mentioned and a disabled employment status is given, RwLBRF is set to disabled. Otherwise, RwLBRF is set to "not in the labor force."

Working 35+ hours per week, 36+ weeks per year is considered full-time. Less than this is considered part-time. The hours and weeks from both the main and second job are considered in determining whether the Respondent is working full-time or part-time. In Wave 2A, there are no questions about a second job, so for the AHEAD Respondents, the hours and weeks from the main job only are considered.

A mention of retirement can be made either through the employment status or the questions that ask the Respondent whether s/he considers himself retired. Please see descriptions of RwSAYRET and RwRETEMP in the Retirement Plans

and Expectations section.

Specific questions ask about whether the Respondent is looking for a full-time or part-time job.

In Wave 2A, there are neither questions about employment status nor the questions that ask the Respondent whether s/he considers himself retired, nor are there questions that ask about whether the Respondent is looking for a full-time or part-time job. So for the AHEAD Respondents, it is only possible to assign working full-time and working part-time codes in R2LBRF based on information from Wave 2A. To assign other codes for unemployed, retired and disabled, the information from subsequent waves is used.

If in a subsequent wave the Respondent reports being unemployed, retired or disabled, the date of unemployment, retirement or disability is compared with interview date. If the interview date is after the date of unemployment, retirement or disability, R2LBRF is set to the appropriate status.

If no information from a subsequent wave is used, then additional codes are assigned for AHEAD Respondents for R2LBRF. If the Respondent is not working now, but has worked in the last two years, a SAS special missing code of .T is assigned.

If the Respondent is not working now, and has not worked in the prior two years, but is over 65 years old, the SAS missing code .A is assigned. The analyst may want to assume these cases are retired. If the Respondent is not working now, and has not worked in the prior two years, and is not over 65 years old the code .Q is assigned, as the employment status was not asked.

There are some cases where the unemployment variable (RwUNEMP) does not match the Labor force variable (RwLBRF). This is due to slight coding differences. The Respondent must say s/he is looking for work to be considered to be unemployed in RwLBRF. It is not enough to mention being unemployed in the employment status variables. Whereas, a mention of being unemployed in the employment status variables will result in RwUNEMP being set to 1.Yes.

SwLBRF is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwLBRF.

RwLBRFH also summarizes the labor force status for the Respondent at each wave using the same sources. However, this variable invokes no week restriction where working 35+ hours per week is considered full-time employment, and working between 1 and 34 hours per week is considered part-time. SwLBRFH is taken from the wave "w" Spouse's self-report, i.e., from the Spouse's RwLBRFH.

For Respondents who have a labor force status classification of full-time or part-time in RwLBRFH, RwLBRFY indicates year-round and part-year employment. RwLBRFY flags Respondents working 50+ weeks per year as year-round employment, and working fewer than 50 weeks per year as part-year employment. SwLBRFY is taken from the wave "w" Spouse's self-report, i.e., from the Spouse's RwLBRFY.

## **Cross Wave Differences in Original HRS Data**

Labor force status uses many pieces of employment data: whether working for pay, employment status, whether considers one's self retired, usual hours worked per week, usual weeks worked per year, second job, hours per week and weeks per year on second job, and whether looking for work.

These pieces are available in all waves, except Wave 2A. The wording for all of these questions is the same or similar across all waves where available. For more details please see RwWORK and RwWORK2 under "Currently working for pay" and RwJHOURS and RwJHOUR2 under "Hours worked per week" in this section (Employment), and RwSAYRET under

"Considers self retired," and R<sub>w</sub>RETEMP under "Retired Employment Status" in the Retirement Plans and Expectations Section.

The questions about usual hours and weeks worked per year are asked of working Respondents each wave. In all but Wave 2A these questions are asked about the second job, if any. In Wave 2A these questions are asked about the main job only.

The question about looking for work is asked of Respondents who are not working. This question is asked in all waves except Wave 2A.

Though the wording of these questions is similar across waves, the navigation through the survey instrument and skip patterns vary quite a bit for some of these variables.

## HRS Variables Used

### HRS 1992:

V12717	F2:ANY WRK FOR PAY :IND
V2701	F1A:WORKING
V2702	F1B:UNEMP-LOOKING FR WRK
V2703	F1C:SICK/OTHER LEAVE
V2704	F1D:DISABLED
V2705	F1E:RETIRED
V2706	F1F:HOMEMAKER
V2707	F1G:OTHER
V2717	F2:ANY WRK FOR PAY :IMP
V2722	F8:WRK HRS/WK:THIS JOB
V2726	F10:WKS/YR WORKING
V2822	F28:S-E:WRK HRS/WK
V2823	F29:S-E:WRKING WKS /YR
V3327	F86:DNG ANY OTR WRK :IMP
V3332	F87:HRS/WK WRK OTHR JOB
V3333	F88:WKS/YR WRK OTHR JOB
V3530	G39:LKING JB LAST 4 WKS
V3531	G40:LKING PART/FULL TIME
V3549	G44:CURR WANT JOB
V3550	G44A:PREFR FULL/PRT TIME
V4901	K1:RETRD:PART,ALL,OR:IMP

### AHEAD 1993:

B1174	G1. WORKING CURRENTLY?
B1186	G6. CURR WORK: # HOURS PER WEEK
B1187	G6A. CURR WORK: # WEEKS PER YEAR

### HRS 1994:

W3300	FA1.CURRENT JOB STATUS
W3301	FA1.CURRENT JOB STATUS
W3302	FA1.CURRENT JOB STATUS
W3316	FA2.WORKING FOR PAY
W3617	FA44.HOURS WORK PER WEEK
W3623	FA47.NUMBER WEEKS PER YE
W3956	FA117.ANY OTHER PAID WOR
W3961	FA118.HOURS/WEEK ON 2ND
W3962	FA119.WEEKS/YEAR ON 2ND
W3983	FA123.CONSIDER SELF RETI
W4313	FB17.HOURS WORK PER WEEK
W4314	FB18.WEEKS WORK PER YEAR
W4611	FB77.ANY OTHER PAID WORK
W4616	FB78.HOURS/WEEK SECOND J



W4617	FB79.WEEKS/YEAR SECOND J
W4638	FB83.RETIREMENT
W5002	FC28.DOING TO FIND WORK
W5003	FC29.LOOKING FULL/PART T
W5017	FC33.WANT JOB CURRENTLY
W5018	FC33a.WANT FULL/PART TIM
W5022	FC41.RETIREMENT
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2651	GA2.WORKING ANY CURRENT
D2652	GA2A.RETIRED WORK ANY SINCE W1
D2836	GA44. HOURS/WEEK WORKED
D2846	GA47. WEEKS/YEAR WORKED
D3110	GA117. ANY OTHER PAID WORK
D3112	GA118. HOURS/WEEK SECOND JOBS
D3113	GA119. WEEKS/YEAR SECOND JOBS
D3130	GA123.RETIREMENT
D3256	GB17. HOURS/WEEK WORKED
D3257	GB18. WEEKS/YEAR WORKED
D3489	GB83.RETIREMENT
D3696	GC28.FIND WORK
D3697	GC29.LOOK FOR PART TIME OR FULL TIME
D3705	GC33.CURRENTLY WANT JOB
D3706	GC33A.PREFER PART TIME OR FULL TIME
D3711	GC41.RETIREMENT
D3728	GC47. WORK AFTER/BEFORE
HRS 1996:	
E2611M1	G1.CURRENT JOB STATUS
E2611M2	G1.CURRENT JOB STATUS
E2611M3	G1.CURRENT JOB STATUS
E2627	G2.WORKING FOR PAY
E2736	G44.HOURS WORK PER WEEK
E2746	G47.WEEKS PER YEAR USUALLY WORK
E2984	G115.DOING TO FIND WORK
E2985	G116.LOOKING FULL/PART-TIME WORK
E2993	G119.WANT JOB CURRENTLY
E2994	G119A.WANT FULL/PART-TIME WORK?
E3019	G128.ANY OTHER PAID WORK
E3021	G129.HOURS/WEEK ON 2ND JOB
E3022	G130.WEEKS/YEAR ON 2ND JOB
E3039	G134.CONSIDER SELF RETIRED
HRS 1998:	
F3115M1	G1.CURRENT JOB STATUS
F3115M2	G1.CURRENT JOB STATUS
F3115M3	G1.CURRENT JOB STATUS
F3131	G2.WORKING FOR PAY
F3259	G44.HOURS WORK PER WEEK
F3269	G47.WEEKS PER YEAR USUALLY WORK
F3513	G115.DOING TO FIND WORK
F3514	G116.LOOKING FULL/PART-TIME WORK
F3522	G119.WANT JOB CURRENTLY
F3523	G119A.WANT FULL/PART-TIME WORK?
F3549	G128.ANY OTHER PAID WORK
F3551	G129.HOURS/WEEK ON 2ND JOB
F3552	G130.WEEKS/YEAR ON 2ND JOB
F3570	G134.CONSIDER SELF RETIRED
HRS 2000:	

G3365M1	G1.CURRENT JOB STATUS
G3365M2	G1.CURRENT JOB STATUS
G3365M3	G1.CURRENT JOB STATUS
G3381	G2.WORKING FOR PAY
G3509	G44.HOURS WORK PER WEEK
G3519	G47.WEEKS PER YEAR USUALLY WORK
G3800	G115.DOING TO FIND WORK
G3801	G116.LOOKING FULL/PART-TIME WORK
G3809	G119.WANT JOB CURRENTLY
G3810	G119A.WANT FULL/PART-TIME WORK?
G3838	G128.ANY OTHER PAID WORK
G3840	G129.HOURS/WEEK ON 2ND JOB
G3841	G130.WEEKS/YEAR ON 2ND JOB
G3859	G134.CONSIDER SELF RETIRED
HRS 2002:	
HJ005M1	CURRENT JOB STATUS- 1
HJ005M2	CURRENT JOB STATUS- 2
HJ005M3	CURRENT JOB STATUS- 3
HJ020	WORKING FOR PAY
HJ172	HRS WORK PER WEEK
HJ179	WKS PR YR USUALLY WORK
HJ517	DOING WHAT TO FIND WORK- NOT WORKING
HJ518	LOOKING FULL/PART-TIME WORK- NOT WORKING
HJ527	WANT JOB CURRENTLY
HJ528	WANT FULL/PART-TIME WORK- NOT WORKING
HJ553	ANY OTR PAID WORK
HJ556	HRS/WK ON 2ND JOB
HJ557	WKS/YR ON 2ND JOB
HJ578	CONSIDER SELF RETIRED
HRS 2004:	
JJ005M1	CURRENT JOB STATUS- 1
JJ005M2	CURRENT JOB STATUS- 2
JJ005M3	CURRENT JOB STATUS- 3
JJ020	WORKING FOR PAY
JJ172	HRS WORK PER WEEK
JJ179	WKS PR YR USUALLY WORK
JJ517	DOING WHAT TO FIND WORK- NOT WORKING
JJ518	LOOKING FULL/PART-TIME WORK- NOT WORKING
JJ527	WANT JOB CURRENTLY
JJ528	WANT FULL/PART-TIME WORK- NOT WORKING
JJ553	ANY OTR PAID WORK
JJ556	HRS/WK ON 2ND JOB
JJ557	WKS/YR ON 2ND JOB
JJ578	CONSIDER SELF RETIRED
HRS 2006:	
KJ005M1	CURRENT JOB STATUS- 1
KJ005M2	CURRENT JOB STATUS- 2
KJ005M3	CURRENT JOB STATUS- 3
KJ020	WORKING FOR PAY
KJ172	HRS WORK PER WEEK
KJ179	WKS PR YR USUALLY WORK
KJ517	DOING WHAT TO FIND WORK- NOT WORKING
KJ518	LOOKING FULL/PART-TIME WORK- NOT WORKING
KJ527	WANT JOB CURRENTLY
KJ528	WANT FULL/PART-TIME WORK- NOT WORKING
KJ553	ANY OTR PAID WORK
KJ556	HRS/WK ON 2ND JOB
KJ557	WKS/YR ON 2ND JOB
KJ578	CONSIDER SELF RETIRED

## HRS 2008:

LJ005M1 CURRENT JOB STATUS- 1  
LJ005M2 CURRENT JOB STATUS- 2  
LJ005M3 CURRENT JOB STATUS- 3  
LJ020 WORKING FOR PAY  
LJ172 HRS WORK PER WEEK  
LJ179 WKS PR YR USUALLY WORK  
LJ517 DOING WHAT TO FIND WORK- NOT WORKING  
LJ518 LOOKING FULL/PART-TIME WORK- NOT WORKING  
LJ527 WANT JOB CURRENTLY  
LJ528 WANT FULL/PART-TIME WORK- NOT WORKING  
LJ553 ANY OTR PAID WORK  
LJ556 HRS/WK ON 2ND JOB  
LJ557 WKS/YR ON 2ND JOB  
LJ578 CONSIDER SELF RETIRED

## HRS 2010:

MJ005M1 CURRENT JOB STATUS- 1  
MJ005M2 CURRENT JOB STATUS- 2  
MJ005M3 CURRENT JOB STATUS- 3  
MJ020 WORKING FOR PAY  
MJ172 HRS WORK PER WEEK  
MJ179 WKS PR YR USUALLY WORK  
MJ517 DOING WHAT TO FIND WORK- NOT WORKING  
MJ518 LOOKING FULL/PART-TIME WORK- NOT WORKING  
MJ527 WANT JOB CURRENTLY  
MJ528 WANT FULL/PART-TIME WORK- NOT WORKING  
MJ553 ANY OTR PAID WORK  
MJ556 HRS/WK ON 2ND JOB  
MJ557 WKS/YR ON 2ND JOB  
MJ578 CONSIDER SELF RETIRED

## HRS 2012:

NJ005M1 CURRENT JOB STATUS- 1  
NJ005M2 CURRENT JOB STATUS- 2  
NJ005M3 CURRENT JOB STATUS- 3  
NJ020 WORKING FOR PAY  
NJ172 HRS WORK PER WEEK  
NJ179 WKS PR YR USUALLY WORK  
NJ517 DOING WHAT TO FIND WORK- NOT WORKING  
NJ518 LOOKING FULL/PART-TIME WORK- NOT WORKING  
NJ527 WANT JOB CURRENTLY  
NJ528 WANT FULL/PART-TIME WORK- NOT WORKING  
NJ553 ANY OTR PAID WORK  
NJ556 HRS/WK ON 2ND JOB  
NJ557 WKS/YR ON 2ND JOB  
NJ578 CONSIDER SELF RETIRED

## HRS 2014:

OJ005M1 CURRENT JOB STATUS- 1  
OJ005M2 CURRENT JOB STATUS- 2  
OJ005M3 CURRENT JOB STATUS- 3  
OJ020 WORKING FOR PAY  
OJ172 HRS WORK PER WEEK  
OJ179 WKS PR YR USUALLY WORK  
OJ517 DOING WHAT TO FIND WORK- NOT WORKING  
OJ518 LOOKING FULL/PART-TIME WORK- NOT WORKING  
OJ527 WANT JOB CURRENTLY  
OJ528 WANT FULL/PART-TIME WORK- NOT WORKING  
OJ553 ANY OTR PAID WORK  
OJ556 HRS/WK ON 2ND JOB  
OJ557 WKS/YR ON 2ND JOB

OJ578

CONSIDER SELF RETIRED

<b>In the labor force</b>
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Wave	Variable	Label	Type
1	R1INLBRF	R1INLBRF:W1 =1 if R is in the labor force	Categ
2	R2INLBRF	R2INLBRF:W2 =1 if R is in the labor force	Categ
3	R3INLBRF	R3INLBRF:W3 =1 if R is in the labor force	Categ
4	R4INLBRF	R4INLBRF:W4 =1 if R is in the labor force	Categ
5	R5INLBRF	R5INLBRF:W5 =1 if R is in the labor force	Categ
6	R6INLBRF	R6INLBRF:W6 =1 if R is in the labor force	Categ
7	R7INLBRF	R7INLBRF:W7 =1 if R is in the labor force	Categ
8	R8INLBRF	R8INLBRF:W8 =1 if R is in the labor force	Categ
9	R9INLBRF	R9INLBRF:W9 =1 if R is in the labor force	Categ
10	R10INLBRF	R10INLBRF:W10 =1 if R is in the labor force	Categ
11	R11INLBRF	R11INLBRF:W11 =1 if R is in the labor force	Categ
12	R12INLBRF	R12INLBRF:W12 =1 if R is in the labor force	Categ
1	S1INLBRF	S1INLBRF:W1 =1 if S is in the labor force	Categ
2	S2INLBRF	S2INLBRF:W2 =1 if S is in the labor force	Categ
3	S3INLBRF	S3INLBRF:W3 =1 if S is in the labor force	Categ
4	S4INLBRF	S4INLBRF:W4 =1 if S is in the labor force	Categ
5	S5INLBRF	S5INLBRF:W5 =1 if S is in the labor force	Categ
6	S6INLBRF	S6INLBRF:W6 =1 if S is in the labor force	Categ
7	S7INLBRF	S7INLBRF:W7 =1 if S is in the labor force	Categ
8	S8INLBRF	S8INLBRF:W8 =1 if S is in the labor force	Categ
9	S9INLBRF	S9INLBRF:W9 =1 if S is in the labor force	Categ
10	S10INLBRF	S10INLBRF:W10 =1 if S is in the labor force	Categ
11	S11INLBRF	S11INLBRF:W11 =1 if S is in the labor force	Categ
12	S12INLBRF	S12INLBRF:W12 =1 if S is in the labor force	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1INLBRF	12637	0.70	0.46	0.0	1.0
R2INLBRF	16443	0.50	0.50	0.0	1.0
R3INLBRF	17638	0.40	0.49	0.0	1.0
R4INLBRF	20919	0.41	0.49	0.0	1.0
R5INLBRF	19092	0.39	0.49	0.0	1.0
R6INLBRF	17683	0.36	0.48	0.0	1.0
R7INLBRF	19653	0.41	0.49	0.0	1.0
R8INLBRF	18019	0.38	0.49	0.0	1.0
R9INLBRF	16756	0.36	0.48	0.0	1.0
R10INLBRF	21366	0.46	0.50	0.0	1.0
R11INLBRF	20021	0.43	0.50	0.0	1.0
R12INLBRF	18266	0.40	0.49	0.0	1.0
S1INLBRF	9895	0.70	0.46	0.0	1.0
S2INLBRF	11572	0.54	0.50	0.0	1.0
S3INLBRF	11817	0.45	0.50	0.0	1.0
S4INLBRF	13882	0.46	0.50	0.0	1.0
S5INLBRF	12628	0.44	0.50	0.0	1.0
S6INLBRF	11548	0.40	0.49	0.0	1.0
S7INLBRF	12889	0.46	0.50	0.0	1.0
S8INLBRF	11651	0.43	0.50	0.0	1.0
S9INLBRF	10562	0.42	0.49	0.0	1.0
S10INLBRF	13291	0.50	0.50	0.0	1.0
S11INLBRF	12376	0.48	0.50	0.0	1.0
S12INLBRF	10934	0.45	0.50	0.0	1.0

## Categorical Variable Codes

Value	R1INLBRF	R2INLBRF	R3INLBRF	R4INLBRF	R5INLBRF	R6INLBRF	R7INLBRF
.A=65+ presumed retired		2991					
.D=DK		2	6			1	2
.I=Institutionalized		8	298	429	457	460	460
.M=Oth missing	15	25	47	30	26	15	11
.Q=Not asked,Lt65,not worki		51					
.R=RF		4	2	6	4	6	3
.T=Not working now,worked l		118					
0.No	3854	8296	10590	12287	11685	11379	11501
1.Yes	8783	8147	7048	8632	7407	6304	8152

Value	R8INLBRF	R9INLBRF	R10INLBRF	R11INLBRF	R12INLBRF
.D=DK	2	2	2	6	3
.I=Institutionalized	438	441	469	478	442
.M=Oth missing	10	14	185	36	28
.R=RF		4	12	13	8
0.No	11161	10642	11611	11413	10971
1.Yes	6858	6114	9755	8608	7295

Value	S1INLBRF	S2INLBRF	S3INLBRF	S4INLBRF	S5INLBRF	S6INLBRF	S7INLBRF
.A=65+ presumed retired		1383					
.D=DK			1				
.I=Institutionalized		3	81	87	95	82	80
.M=Oth missing	5	5	16	8	7	6	1
.Q=Not asked,Lt65,not worki		50					
.R=RF		1		1		3	2
.T=Not working now,worked l		74					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No	3002	5339	6489	7485	7107	6882	6914
1.Yes	6893	6233	5328	6397	5521	4666	5975

Value	S8INLBRF	S9INLBRF	S10INLBRF	S11INLBRF	S12INLBRF
.D=DK				3	
.I=Institutionalized	83	76	108	97	82
.M=Oth missing	1	4	110	8	8
.R=RF		4	4	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No	6642	6165	6618	6473	6010
1.Yes	5009	4397	6673	5903	4924

## How Constructed

RwINLBRF is an indicator for whether the Respondent is considered part of the labor force as defined by the Bureau of Labor Statistics (BLS). Briefly, this definition considers those who are working for pay, or those who are not working but actively seeking work as part of the labor force.

SwINLBRF is an indicator for whether the Respondent's spouse is considered part of the labor force.

The derivation uses questions about current work status, work for pay, and activities related to job seeking. Institutionalized Respondents (i.e. those in a nursing home) are not included in the derivation.

If the Respondent is working for pay, RwINLBRF is set to "in the labor force." If the Respondent is not working for pay, but reports actively looking for a job in the last four weeks, RwINLBRF is set to "in the labor force." If the Respondent

is neither working for pay nor looking for work and reports being retired, disabled, or a homemaker as her/his current job status, RWINLBRF is set to "not in the labor force."

In Wave 2A, there are neither questions about employment status nor questions that ask the Respondent whether s/he considers himself retired, neither are there questions that ask about whether the Respondent is looking for work. So for the AHEAD Respondents, it is only possible to determine whether the Respondent was working for pay or not. If the Respondent is not working for pay, it cannot be determined if the person is looking for work based on information from Wave 2A. To further determine labor force status, the unemployment, retirement and disability status information from subsequent waves is used.

If in a subsequent wave the Respondent reports being unemployed, retired or disabled, the date of unemployment, retirement or disability is compared with interview date. If the interview date is after the date of unemployment, retirement or disability, R2INLBRF is set to the appropriate status.

If no information from subsequent waves is used, then additional codes are assigned for the AHEAD Respondents for R2INLBRF. If the Respondent is not working now, but has worked in the last two years, a SAS special missing code of .T is assigned.

If the Respondent is not working now, and has not worked in the prior two years, but is over 65 years old, the SAS missing code .A is assigned. The analyst may want to assume these cases are retired. If the Respondent is not working now, has not worked in the prior two years, and is not over 65 years old the code .Q is assigned, as the employment status was not asked.

SwINLBRF is taken from the wave "w" spouse's self-report, i.e., from the spouse's RWINLBRF.

## Cross Wave Differences in Original HRS Data

Labor force status uses several pieces of employment data: whether working for pay, current job status, and whether looking for work.

These pieces are available in all waves, except Wave 2A. The wording for all of these questions is the same or similar across all waves where available.

The question about current job status is asked in all waves except Wave 2A.

The question about looking for work is asked of Respondents who are not working. This question is asked in all waves except Wave 2A.

Though the wording of these questions is similar across waves, the navigation through the survey instrument and skip patterns vary quite a bit for some of these variables.

## HRS Variables Used

HRS 1992:	
V12717	F2:ANY WRK FOR PAY :IND
V2701	F1A:WORKING
V2702	F1B:UNEMP-LOOKING FR WRK
V2703	F1C:SICK/OTHER LEAVE
V2704	F1D:DISABLED

V2705	F1E:RETIRED
V2706	F1F:HOMEMAKER
V2707	F1G:OTHER
V2717	F2:ANY WRK FOR PAY :IMP
V3530	G39:LKING JB LAST 4 WKS
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
BIWYEAR	1993 INTERVIEW YEAR
HRS 1994:	
W3300	FA1.CURRENT JOB STATUS
W3301	FA1.CURRENT JOB STATUS
W3302	FA1.CURRENT JOB STATUS
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2651	GA2.WORKING ANY CURRENT
D3696	GC28.FIND WORK
HRS 1996:	
E2611M1	G1.CURRENT JOB STATUS
E2611M2	G1.CURRENT JOB STATUS
E2611M3	G1.CURRENT JOB STATUS
E2627	G2.WORKING FOR PAY
E2984	G115.DOING TO FIND WORK
HRS 1998:	
F3115M1	G1.CURRENT JOB STATUS
F3115M2	G1.CURRENT JOB STATUS
F3115M3	G1.CURRENT JOB STATUS
F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3131	G2.WORKING FOR PAY
F3513	G115.DOING TO FIND WORK
HRS 2000:	
G3365M1	G1.CURRENT JOB STATUS
G3365M2	G1.CURRENT JOB STATUS
G3365M3	G1.CURRENT JOB STATUS
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3381	G2.WORKING FOR PAY
G3800	G115.DOING TO FIND WORK
HRS 2002:	
HJ005M1	CURRENT JOB STATUS- 1
HJ005M2	CURRENT JOB STATUS- 2
HJ005M3	CURRENT JOB STATUS- 3
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ020	WORKING FOR PAY
HJ517	DOING WHAT TO FIND WORK- NOT WORKING



HRS 2004:  
JJ005M1 CURRENT JOB STATUS- 1  
JJ005M2 CURRENT JOB STATUS- 2  
JJ005M3 CURRENT JOB STATUS- 3  
JJ007 MO UNEMPLOYED  
JJ008 YR UNEMPLOYED  
JJ014 DISABLED-MO  
JJ015 DISABLED- YR  
JJ020 WORKING FOR PAY  
JJ517 DOING WHAT TO FIND WORK- NOT WORKING

HRS 2006:  
KJ005M1 CURRENT JOB STATUS- 1  
KJ005M2 CURRENT JOB STATUS- 2  
KJ005M3 CURRENT JOB STATUS- 3  
KJ007 MO UNEMPLOYED  
KJ008 YR UNEMPLOYED  
KJ014 DISABLED-MO  
KJ015 DISABLED- YR  
KJ020 WORKING FOR PAY  
KJ517 DOING WHAT TO FIND WORK- NOT WORKING

HRS 2008:  
LJ005M1 CURRENT JOB STATUS- 1  
LJ005M2 CURRENT JOB STATUS- 2  
LJ005M3 CURRENT JOB STATUS- 3  
LJ007 MO UNEMPLOYED  
LJ008 YR UNEMPLOYED  
LJ014 DISABLED-MO  
LJ015 DISABLED- YR  
LJ020 WORKING FOR PAY  
LJ517 DOING WHAT TO FIND WORK- NOT WORKING

HRS 2010:  
MJ005M1 CURRENT JOB STATUS- 1  
MJ005M2 CURRENT JOB STATUS- 2  
MJ005M3 CURRENT JOB STATUS- 3  
MJ007 MO UNEMPLOYED  
MJ008 YR UNEMPLOYED  
MJ014 DISABLED-MO  
MJ015 DISABLED- YR  
MJ020 WORKING FOR PAY  
MJ517 DOING WHAT TO FIND WORK- NOT WORKING

HRS 2012:  
NJ005M1 CURRENT JOB STATUS- 1  
NJ005M2 CURRENT JOB STATUS- 2  
NJ005M3 CURRENT JOB STATUS- 3  
NJ007 MO UNEMPLOYED  
NJ008 YR UNEMPLOYED  
NJ014 DISABLED-MO  
NJ015 DISABLED- YR  
NJ020 WORKING FOR PAY  
NJ517 DOING WHAT TO FIND WORK- NOT WORKING

HRS 2014:  
OJ005M1 CURRENT JOB STATUS- 1  
OJ005M2 CURRENT JOB STATUS- 2  
OJ005M3 CURRENT JOB STATUS- 3  
OJ007 MO UNEMPLOYED  
OJ008 YR UNEMPLOYED  
OJ014 DISABLED-MO  
OJ015 DISABLED- YR  
OJ020 WORKING FOR PAY

OJ517 DOING WHAT TO FIND WORK- NOT WORKING  
Tracker:  
ANURSHM 1992 NURSING HOME STATUS  
BNURSHM 1993 NURSING HOME STATUS  
CNURSHM 1994 NURSING HOME STATUS  
DNURSHM 1995 NURSING HOME STATUS  
ENURSHM 1996 NURSING HOME STATUS  
FNURSHM 1998 NURSING HOME STATUS  
GNURSHM 2000 NURSING HOME STATUS  
HNURSHM 2002 NURSING HOME STATUS  
JNURSHM 2004 NURSING HOME STATUS  
KNURSHM 2006 NURSING HOME STATUS  
LNURSHM 2008 NURSING HOME STATUS  
MNURSHM 2010 NURSING HOME STATUS  
NNURSHM 2012 NURSING HOME STATUS  
ONURSHM 2014 NURSING HOME STATUS

### Retired Employment Status

Wave	Variable	Label	Type
1	R1RETEMP	R1RETEMP:W1 R GIVES RETIRED IN EMPSTAT	Categ
2	R2RETEMP	R2RETEMP:W2 R GIVES RETIRED IN EMPSTAT	Categ
3	R3RETEMP	R3RETEMP:W3 R GIVES RETIRED IN EMPSTAT	Categ
4	R4RETEMP	R4RETEMP:W4 R GIVES RETIRED IN EMPSTAT	Categ
5	R5RETEMP	R5RETEMP:W5 R GIVES RETIRED IN EMPSTAT	Categ
6	R6RETEMP	R6RETEMP:W6 R GIVES RETIRED IN EMPSTAT	Categ
7	R7RETEMP	R7RETEMP:W7 R GIVES RETIRED IN EMPSTAT	Categ
8	R8RETEMP	R8RETEMP:W8 R GIVES RETIRED IN EMPSTAT	Categ
9	R9RETEMP	R9RETEMP:W9 R GIVES RETIRED IN EMPSTAT	Categ
10	R10RETEMP	R10RETEMP:W10 R GIVES RETIRED IN EMPSTAT	Categ
11	R11RETEMP	R11RETEMP:W11 R GIVES RETIRED IN EMPSTAT	Categ
12	R12RETEMP	R12RETEMP:W12 R GIVES RETIRED IN EMPSTAT	Categ
1	S1RETEMP	S1RETEMP:W1 S GIVES RETIRED IN EMPSTAT	Categ
2	S2RETEMP	S2RETEMP:W2 S GIVES RETIRED IN EMPSTAT	Categ
3	S3RETEMP	S3RETEMP:W3 S GIVES RETIRED IN EMPSTAT	Categ
4	S4RETEMP	S4RETEMP:W4 S GIVES RETIRED IN EMPSTAT	Categ
5	S5RETEMP	S5RETEMP:W5 S GIVES RETIRED IN EMPSTAT	Categ
6	S6RETEMP	S6RETEMP:W6 S GIVES RETIRED IN EMPSTAT	Categ
7	S7RETEMP	S7RETEMP:W7 S GIVES RETIRED IN EMPSTAT	Categ
8	S8RETEMP	S8RETEMP:W8 S GIVES RETIRED IN EMPSTAT	Categ
9	S9RETEMP	S9RETEMP:W9 S GIVES RETIRED IN EMPSTAT	Categ
10	S10RETEMP	S10RETEMP:W10 S GIVES RETIRED IN EMPSTAT	Categ
11	S11RETEMP	S11RETEMP:W11 S GIVES RETIRED IN EMPSTAT	Categ
12	S12RETEMP	S12RETEMP:W12 S GIVES RETIRED IN EMPSTAT	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RETEMP	12612	0.16	0.44	0.0	2.0
R2RETEMP	11402	0.22	0.50	0.0	2.0
R3RETEMP	17927	0.53	0.64	0.0	2.0
R4RETEMP	21329	0.53	0.64	0.0	2.0
R5RETEMP	19545	0.54	0.64	0.0	2.0
R6RETEMP	18141	0.56	0.61	0.0	2.0
R7RETEMP	20109	0.50	0.60	0.0	2.0
R8RETEMP	18452	0.56	0.61	0.0	2.0
R9RETEMP	17192	0.60	0.62	0.0	2.0
R10RETEMP	21830	0.49	0.62	0.0	2.0
R11RETEMP	20492	0.52	0.63	0.0	2.0
R12RETEMP	18703	0.55	0.63	0.0	2.0
S1RETEMP	9876	0.17	0.46	0.0	2.0
S2RETEMP	8734	0.24	0.52	0.0	2.0
S3RETEMP	11895	0.50	0.64	0.0	2.0
S4RETEMP	13965	0.50	0.64	0.0	2.0
S5RETEMP	12723	0.51	0.64	0.0	2.0
S6RETEMP	11628	0.54	0.62	0.0	2.0
S7RETEMP	12967	0.48	0.60	0.0	2.0
S8RETEMP	11731	0.53	0.62	0.0	2.0
S9RETEMP	10636	0.57	0.62	0.0	2.0
S10RETEMP	13398	0.47	0.62	0.0	2.0
S11RETEMP	12470	0.49	0.62	0.0	2.0
S12RETEMP	11015	0.52	0.63	0.0	2.0

## Categorical Variable Codes

Value	R1RETEMP	R2RETEMP	R3RETEMP	R4RETEMP	R5RETEMP	R6RETEMP	R7RETEMP
.M=Oth missing	40	18	64	55	34	24	20
.Q=Not asked this wv		8222					
0.No retire empstat	11032	9309	9842	11769	10572	9208	11070
1.Only retire empstat	1177	1636	6632	7848	7452	7771	7934
2.Retire plus other empstat	403	457	1453	1712	1521	1162	1105

Value	R8RETEMP	R9RETEMP	R10RETEMP	R11RETEMP	R12RETEMP
.M=Oth missing	17	25	204	62	44
0.No retire empstat	9408	8116	12620	11277	9749
1.Only retire empstat	7833	7825	7758	7759	7593
2.Retire plus other empstat	1211	1251	1452	1456	1361

Value	S1RETEMP	S2RETEMP	S3RETEMP	S4RETEMP	S5RETEMP	S6RETEMP	S7RETEMP
.M=Oth missing	24	5	20	13	7	11	5
.Q=Not asked this wv		4549					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
0.No retire empstat	8515	7006	6865	8145	7170	6123	7474
1.Only retire empstat	1009	1360	4058	4701	4576	4750	4764
2.Retire plus other empstat	352	368	972	1119	977	755	729

Value	S8RETEMP	S9RETEMP	S10RETEMP	S11RETEMP	S12RETEMP
.M=Oth missing	4	10	115	18	12
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No retire empstat	6301	5331	8032	7190	6070
1.Only retire empstat	4666	4543	4480	4413	4158
2.Retire plus other empstat	764	762	886	867	787

## How Constructed

There are at least 2 places in every wave where the Respondent could report being retired. See also "Whether retired, Consider self retired" (RwSAYRET).

RwRETEMP is derived from employment status. The Respondent can report a retired status alone or in addition to other statuses, such as working, disabled, or unemployed. RwRETEMP is set to 1 if the Respondent only reports a retired status, or 2 if the Respondent reports being retired in addition to another status. It is set to 0 if no retirement status is reported at all. In Wave 2H, if the interview is a proxy for a deceased Respondent, it is set to SAS special missing code .S to indicate that the question was skipped. In Wave 2A, the question is not asked at all.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwRETEMP.

In Wave 2A, employment status is not asked, for AHEAD Respondents R2RETEMP is set to SAS special missing code .Q to indicate that the information is not available.

See also Labor Force Status (RwLBRF and SwLBRF).

## Cross Wave Differences in Original HRS Data

In Wave 2H, employment status is not asked if the Respondent is deceased. Only Wave 2H includes proxy interviews for deceased Respondents. In Wave 2A, this question is not asked at all.

### HRS Variables Used

HRS 1992:	
V2701	F1A:WORKING
V2702	F1B:UNEMP-LOOKING FR WRK
V2703	F1C:SICK/OTHER LEAVE
V2704	F1D:DISABLED
V2705	F1E:RETIRED
V2706	F1F:HOMEMAKER
V2707	F1G:OTHER
HRS 1994:	
W117	ICS5a. Reason for Proxy
W3300	FA1.CURRENT JOB STATUS
W3301	FA1.CURRENT JOB STATUS
W3302	FA1.CURRENT JOB STATUS
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
HRS 1996:	
E2611M1	G1.CURRENT JOB STATUS
E2611M2	G1.CURRENT JOB STATUS
E2611M3	G1.CURRENT JOB STATUS
HRS 1998:	
F3115M1	G1.CURRENT JOB STATUS
F3115M2	G1.CURRENT JOB STATUS
F3115M3	G1.CURRENT JOB STATUS
HRS 2000:	
G3365M1	G1.CURRENT JOB STATUS
G3365M2	G1.CURRENT JOB STATUS
G3365M3	G1.CURRENT JOB STATUS
HRS 2002:	
HJ005M1	CURRENT JOB STATUS- 1
HJ005M2	CURRENT JOB STATUS- 2
HJ005M3	CURRENT JOB STATUS- 3
HJ005M4	CURRENT JOB STATUS- 4
HJ005M5	CURRENT JOB STATUS- 5
HRS 2004:	
JJ005M1	CURRENT JOB STATUS- 1
JJ005M2	CURRENT JOB STATUS- 2
JJ005M3	CURRENT JOB STATUS- 3
JJ005M4	CURRENT JOB STATUS- 4
JJ005M5	CURRENT JOB STATUS- 5
HRS 2006:	
KJ005M1	CURRENT JOB STATUS- 1
KJ005M2	CURRENT JOB STATUS- 2
KJ005M3	CURRENT JOB STATUS- 3
KJ005M4	CURRENT JOB STATUS- 4
KJ005M5	CURRENT JOB STATUS- 5
HRS 2008:	
LJ005M1	CURRENT JOB STATUS- 1
LJ005M2	CURRENT JOB STATUS- 2

LJ005M3	CURRENT JOB STATUS-	3
LJ005M4	CURRENT JOB STATUS-	4
HRS 2010:		
MJ005M1	CURRENT JOB STATUS-	1
MJ005M2	CURRENT JOB STATUS-	2
MJ005M3	CURRENT JOB STATUS-	3
MJ005M4	CURRENT JOB STATUS-	4
HRS 2012:		
NJ005M1	CURRENT JOB STATUS-	1
NJ005M2	CURRENT JOB STATUS-	2
NJ005M3	CURRENT JOB STATUS-	3
NJ005M4	CURRENT JOB STATUS-	4
HRS 2014:		
OJ005M1	CURRENT JOB STATUS-	1
OJ005M2	CURRENT JOB STATUS-	2
OJ005M3	CURRENT JOB STATUS-	3
OJ005M4	CURRENT JOB STATUS-	4

## Unemployed

Wave	Variable	Label	Type
1	R1UNEMP	R1UNEMP:W1 =1 if R is unemployed	Categ
2	R2UNEMP	R2UNEMP:W2 =1 if R is unemployed	Categ
3	R3UNEMP	R3UNEMP:W3 =1 if R is unemployed	Categ
4	R4UNEMP	R4UNEMP:W4 =1 if R is unemployed	Categ
5	R5UNEMP	R5UNEMP:W5 =1 if R is unemployed	Categ
6	R6UNEMP	R6UNEMP:W6 =1 if R is unemployed	Categ
7	R7UNEMP	R7UNEMP:W7 =1 if R is unemployed	Categ
8	R8UNEMP	R8UNEMP:W8 =1 if R is unemployed	Categ
9	R9UNEMP	R9UNEMP:W9 =1 if R is unemployed	Categ
10	R10UNEMP	R10UNEMP:W10 =1 if R is unemployed	Categ
11	R11UNEMP	R11UNEMP:W11 =1 if R is unemployed	Categ
12	R12UNEMP	R12UNEMP:W12 =1 if R is unemployed	Categ
1	S1UNEMP	S1UNEMP:W1 =1 if S is unemployed	Categ
2	S2UNEMP	S2UNEMP:W2 =1 if S is unemployed	Categ
3	S3UNEMP	S3UNEMP:W3 =1 if S is unemployed	Categ
4	S4UNEMP	S4UNEMP:W4 =1 if S is unemployed	Categ
5	S5UNEMP	S5UNEMP:W5 =1 if S is unemployed	Categ
6	S6UNEMP	S6UNEMP:W6 =1 if S is unemployed	Categ
7	S7UNEMP	S7UNEMP:W7 =1 if S is unemployed	Categ
8	S8UNEMP	S8UNEMP:W8 =1 if S is unemployed	Categ
9	S9UNEMP	S9UNEMP:W9 =1 if S is unemployed	Categ
10	S10UNEMP	S10UNEMP:W10 =1 if S is unemployed	Categ
11	S11UNEMP	S11UNEMP:W11 =1 if S is unemployed	Categ
12	S12UNEMP	S12UNEMP:W12 =1 if S is unemployed	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1UNEMP	8783	0.05	0.21	0.0	1.0
R2UNEMP	8147	0.04	0.20	0.0	1.0
R3UNEMP	7048	0.03	0.18	0.0	1.0
R4UNEMP	8632	0.03	0.16	0.0	1.0
R5UNEMP	7407	0.03	0.16	0.0	1.0
R6UNEMP	6304	0.04	0.19	0.0	1.0
R7UNEMP	8152	0.04	0.19	0.0	1.0
R8UNEMP	6858	0.03	0.18	0.0	1.0
R9UNEMP	6114	0.04	0.19	0.0	1.0
R10UNEMP	9755	0.09	0.29	0.0	1.0
R11UNEMP	8608	0.08	0.26	0.0	1.0
R12UNEMP	7295	0.06	0.23	0.0	1.0
S1UNEMP	6893	0.04	0.20	0.0	1.0
S2UNEMP	6233	0.03	0.18	0.0	1.0
S3UNEMP	5328	0.03	0.17	0.0	1.0
S4UNEMP	6397	0.03	0.16	0.0	1.0
S5UNEMP	5521	0.03	0.16	0.0	1.0
S6UNEMP	4666	0.03	0.18	0.0	1.0
S7UNEMP	5975	0.04	0.19	0.0	1.0
S8UNEMP	5009	0.03	0.16	0.0	1.0
S9UNEMP	4397	0.04	0.18	0.0	1.0
S10UNEMP	6673	0.08	0.28	0.0	1.0
S11UNEMP	5903	0.07	0.25	0.0	1.0
S12UNEMP	4924	0.05	0.22	0.0	1.0

## Categorical Variable Codes

Value	R1UNEMP	R2UNEMP	R3UNEMP	R4UNEMP	R5UNEMP	R6UNEMP	R7UNEMP
.A=65+ presumed retired		2991					
.D=DK		2	6			1	2
.I=Institutionalized		8	298	429	457	460	460
.M=Oth missing	15	25	47	30	26	15	11
.Q=Not asked,Lt65,not worki		51					
.R=RF		4	2	6	4	6	3
.T=Not working now,worked l		118					
.X=NA/Not in labor force	3854	8296	10590	12287	11685	11379	11501
0.No	8370	7822	6815	8393	7201	6058	7839
1.Yes	413	325	233	239	206	246	313

Value	R8UNEMP	R9UNEMP	R10UNEMP	R11UNEMP	R12UNEMP
.D=DK	2	2	2	6	3
.I=Institutionalized	438	441	469	478	442
.M=Oth missing	10	14	185	36	28
.R=RF		4	12	13	8
.X=NA/Not in labor force	11161	10642	11611	11413	10971
0.No	6641	5877	8856	7957	6884
1.Yes	217	237	899	651	411

Value	S1UNEMP	S2UNEMP	S3UNEMP	S4UNEMP	S5UNEMP	S6UNEMP	S7UNEMP
.A=65+ presumed retired		1383					
.D=DK			1				
.I=Institutionalized		3	81	87	95	82	80
.M=Oth missing	5	5	16	8	7	6	1
.Q=Not asked,Lt65,not worki		50					
.R=RF		1		1		3	2
.T=Not working now,worked l		74					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.X=NA/Not in labor force	3002	5339	6489	7485	7107	6882	6914
0.No	6595	6025	5171	6235	5380	4504	5763
1.Yes	298	208	157	162	141	162	212

Value	S8UNEMP	S9UNEMP	S10UNEMP	S11UNEMP	S12UNEMP
.D=DK				3	
.I=Institutionalized	83	76	108	97	82
.M=Oth missing	1	4	110	8	8
.R=RF		4	4	4	3
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.X=NA/Not in labor force	6642	6165	6618	6473	6010
0.No	4872	4243	6108	5497	4675
1.Yes	137	154	565	406	249

## How Constructed

RwUNEMP is an indicator for whether the Respondent is considered unemployed as defined by the Bureau of Labor Statistics (BLS). Briefly, this definition considers those who are not working but actively seeking work as unemployed. SwUNEMP is an indicator for whether the Respondent's spouse is considered unemployed.

The derivation uses questions about current work status, work for pay, and activities related to job seeking. Institutionalized Respondents (i.e. those in a nursing home) are not included in the derivation.

If the Respondent is working for pay, then RwUNEMP is set to employed.



If the Respondent is not working for pay and also reports actively looking for a job in the last four weeks, RwUNEMP is set to unemployed. If the Respondent is not working for pay but considered "not in the labor force" according to RwINLBRF, then the special missing code .X is assigned to RwUNEMP. See RwINLBRF in this section for more details.

In Wave 2A, there are neither questions about employment status nor are there questions that ask the Respondent whether s/he considers himself retired, nor do the questions ask about whether the Respondent is looking for work. So for the AHEAD Respondents, it is only possible to determine whether the Respondent was working for pay or not. If the Respondent is not working for pay, it cannot be determined if the person is looking for work based on information from Wave 2A. To further determine unemployment status for Wave 2A, unemployment status information from subsequent waves is used.

If in a subsequent wave the Respondent reports being unemployed, the date of unemployment is compared with the interview date. If the interview date is after the date of unemployment, R2UNEMP is set to unemployed.

If no information from a subsequent wave is used, then additional codes are assigned for the AHEAD Respondents for R2UNEMP. If the Respondent is not working now, but has worked in the last two years, a SAS special missing code of .T is assigned.

If the Respondent is not working now, and has not worked in the prior two years, but is over 65 years old, the SAS missing code .A is assigned. The analyst may want to assume these cases are retired. If the Respondent is not working now, has not worked in the prior two years, and is not over 65 years old, the code .Q is assigned, as the employment status was not asked.

SwUNEMP is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwUNEMP.

## Cross Wave Differences in Original HRS Data

Unemployment status uses several pieces of employment data: whether working for pay, current job status, and whether looking for work.

These pieces are available in all waves, except Wave 2A. The wording for all of these questions is the same or similar across all waves where available.

The question about current job status is asked in all waves except Wave 2A.

The question about looking for work is asked of Respondents who are not working. This question is asked in all waves except Wave 2A.

Though the wording of these questions is similar across waves, the navigation through the survey instrument and skip patterns vary quite a bit for some of these variables.

## HRS Variables Used

```
HRS 1992:
V12717      F2:ANY WRK FOR PAY   :IND
V2701       F1A:WORKING
V2702       F1B:UNEMP-LOOKING FR WRK
V2703       F1C:SICK/OTHER LEAVE
```

V2704	F1D:DISABLED
V2705	F1E:RETIRED
V2706	F1F:HOMEMAKER
V2707	F1G:OTHER
V2717	F2:ANY WRK FOR PAY :IMP
V3530	G39:LKING JB LAST 4 WKS
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
BIWYEAR	1993 INTERVIEW YEAR
HRS 1994:	
W3300	FA1.CURRENT JOB STATUS
W3301	FA1.CURRENT JOB STATUS
W3302	FA1.CURRENT JOB STATUS
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2651	GA2.WORKING ANY CURRENT
D3696	GC28.FIND WORK
HRS 1996:	
E2611M1	G1.CURRENT JOB STATUS
E2611M2	G1.CURRENT JOB STATUS
E2611M3	G1.CURRENT JOB STATUS
E2627	G2.WORKING FOR PAY
E2984	G115.DOING TO FIND WORK
HRS 1998:	
F3115M1	G1.CURRENT JOB STATUS
F3115M2	G1.CURRENT JOB STATUS
F3115M3	G1.CURRENT JOB STATUS
F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3131	G2.WORKING FOR PAY
F3513	G115.DOING TO FIND WORK
HRS 2000:	
G3365M1	G1.CURRENT JOB STATUS
G3365M2	G1.CURRENT JOB STATUS
G3365M3	G1.CURRENT JOB STATUS
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3381	G2.WORKING FOR PAY
G3800	G115.DOING TO FIND WORK
HRS 2002:	
HJ005M1	CURRENT JOB STATUS- 1
HJ005M2	CURRENT JOB STATUS- 2
HJ005M3	CURRENT JOB STATUS- 3
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ020	WORKING FOR PAY

HJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2004:  
JJ005M1 CURRENT JOB STATUS- 1  
JJ005M2 CURRENT JOB STATUS- 2  
JJ005M3 CURRENT JOB STATUS- 3  
JJ007 MO UNEMPLOYED  
JJ008 YR UNEMPLOYED  
JJ014 DISABLED-MO  
JJ015 DISABLED- YR  
JJ020 WORKING FOR PAY  
JJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2006:  
KJ005M1 CURRENT JOB STATUS- 1  
KJ005M2 CURRENT JOB STATUS- 2  
KJ005M3 CURRENT JOB STATUS- 3  
KJ007 MO UNEMPLOYED  
KJ008 YR UNEMPLOYED  
KJ014 DISABLED-MO  
KJ015 DISABLED- YR  
KJ020 WORKING FOR PAY  
KJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2008:  
LJ005M1 CURRENT JOB STATUS- 1  
LJ005M2 CURRENT JOB STATUS- 2  
LJ005M3 CURRENT JOB STATUS- 3  
LJ007 MO UNEMPLOYED  
LJ008 YR UNEMPLOYED  
LJ014 DISABLED-MO  
LJ015 DISABLED- YR  
LJ020 WORKING FOR PAY  
LJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2010:  
MJ005M1 CURRENT JOB STATUS- 1  
MJ005M2 CURRENT JOB STATUS- 2  
MJ005M3 CURRENT JOB STATUS- 3  
MJ007 MO UNEMPLOYED  
MJ008 YR UNEMPLOYED  
MJ014 DISABLED-MO  
MJ015 DISABLED- YR  
MJ020 WORKING FOR PAY  
MJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2012:  
NJ005M1 CURRENT JOB STATUS- 1  
NJ005M2 CURRENT JOB STATUS- 2  
NJ005M3 CURRENT JOB STATUS- 3  
NJ007 MO UNEMPLOYED  
NJ008 YR UNEMPLOYED  
NJ014 DISABLED-MO  
NJ015 DISABLED- YR  
NJ020 WORKING FOR PAY  
NJ517 DOING WHAT TO FIND WORK- NOT WORKING  
HRS 2014:  
OJ005M1 CURRENT JOB STATUS- 1  
OJ005M2 CURRENT JOB STATUS- 2  
OJ005M3 CURRENT JOB STATUS- 3  
OJ007 MO UNEMPLOYED  
OJ008 YR UNEMPLOYED  
OJ014 DISABLED-MO  
OJ015 DISABLED- YR

OJ020	WORKING FOR PAY
OJ517	DOING WHAT TO FIND WORK- NOT WORKING

Tracker:

ANURSHM	1992 NURSING HOME STATUS
BNURSHM	1993 NURSING HOME STATUS
CNURSHM	1994 NURSING HOME STATUS
DNURSHM	1995 NURSING HOME STATUS
ENURSHM	1996 NURSING HOME STATUS
FNURSHM	1998 NURSING HOME STATUS
GNURSHM	2000 NURSING HOME STATUS
HNURSHM	2002 NURSING HOME STATUS
JNURSHM	2004 NURSING HOME STATUS
KNURSHM	2006 NURSING HOME STATUS
LNURSHM	2008 NURSING HOME STATUS
MNURSHM	2010 NURSING HOME STATUS
NNURSHM	2012 NURSING HOME STATUS
ONURSHM	2014 NURSING HOME STATUS

### Hours of work per week at current job

Wave	Variable	Label	Type
1	R1JHOURS	R1JHOURS:W1 Hours worked/week main job	Cont
2	R2JHOURS	R2JHOURS:W2 Hours worked/week main job	Cont
3	R3JHOURS	R3JHOURS:W3 Hours worked/week main job	Cont
4	R4JHOURS	R4JHOURS:W4 Hours worked/week main job	Cont
5	R5JHOURS	R5JHOURS:W5 Hours worked/week main job	Cont
6	R6JHOURS	R6JHOURS:W6 Hours worked/week main job	Cont
7	R7JHOURS	R7JHOURS:W7 Hours worked/week main job	Cont
8	R8JHOURS	R8JHOURS:W8 Hours worked/week main job	Cont
9	R9JHOURS	R9JHOURS:W9 Hours worked/week main job	Cont
10	R10JHOURS	R10JHOURS:W10 Hours worked/week main job	Cont
11	R11JHOURS	R11JHOURS:W11 Hours worked/week main job	Cont
12	R12JHOURS	R12JHOURS:W12 Hours worked/week main job	Cont
1	S1JHOURS	S1JHOURS:W1 Hours worked/week main job	Cont
2	S2JHOURS	S2JHOURS:W2 Hours worked/week main job	Cont
3	S3JHOURS	S3JHOURS:W3 Hours worked/week main job	Cont
4	S4JHOURS	S4JHOURS:W4 Hours worked/week main job	Cont
5	S5JHOURS	S5JHOURS:W5 Hours worked/week main job	Cont
6	S6JHOURS	S6JHOURS:W6 Hours worked/week main job	Cont
7	S7JHOURS	S7JHOURS:W7 Hours worked/week main job	Cont
8	S8JHOURS	S8JHOURS:W8 Hours worked/week main job	Cont
9	S9JHOURS	S9JHOURS:W9 Hours worked/week main job	Cont
10	S10JHOURS	S10JHOURS:W10 Hours worked/week main job	Cont
11	S11JHOURS	S11JHOURS:W11 Hours worked/week main job	Cont
12	S12JHOURS	S12JHOURS:W12 Hours worked/week main job	Cont
1	R1JHOUR2	R1JHOUR2:W1 Hours worked/week 2nd job	Cont
2	R2JHOUR2	R2JHOUR2:W2 Hours worked/week 2nd job	Cont
3	R3JHOUR2	R3JHOUR2:W3 Hours worked/week 2nd job	Cont
4	R4JHOUR2	R4JHOUR2:W4 Hours worked/week 2nd job	Cont
5	R5JHOUR2	R5JHOUR2:W5 Hours worked/week 2nd job	Cont
6	R6JHOUR2	R6JHOUR2:W6 Hours worked/week 2nd job	Cont
7	R7JHOUR2	R7JHOUR2:W7 Hours worked/week 2nd job	Cont
8	R8JHOUR2	R8JHOUR2:W8 Hours worked/week 2nd job	Cont
9	R9JHOUR2	R9JHOUR2:W9 Hours worked/week 2nd job	Cont
10	R10JHOUR2	R10JHOUR2:W10 Hours worked/week 2nd job	Cont
11	R11JHOUR2	R11JHOUR2:W11 Hours worked/week 2nd job	Cont
12	R12JHOUR2	R12JHOUR2:W12 Hours worked/week 2nd job	Cont
1	S1JHOUR2	S1JHOUR2:W1 Hours worked/week 2nd job	Cont
2	S2JHOUR2	S2JHOUR2:W2 Hours worked/week 2nd job	Cont
3	S3JHOUR2	S3JHOUR2:W3 Hours worked/week 2nd job	Cont
4	S4JHOUR2	S4JHOUR2:W4 Hours worked/week 2nd job	Cont
5	S5JHOUR2	S5JHOUR2:W5 Hours worked/week 2nd job	Cont
6	S6JHOUR2	S6JHOUR2:W6 Hours worked/week 2nd job	Cont
7	S7JHOUR2	S7JHOUR2:W7 Hours worked/week 2nd job	Cont
8	S8JHOUR2	S8JHOUR2:W8 Hours worked/week 2nd job	Cont
9	S9JHOUR2	S9JHOUR2:W9 Hours worked/week 2nd job	Cont
10	S10JHOUR2	S10JHOUR2:W10 Hours worked/week 2nd job	Cont
11	S11JHOUR2	S11JHOUR2:W11 Hours worked/week 2nd job	Cont
12	S12JHOUR2	S12JHOUR2:W12 Hours worked/week 2nd job	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JHOURS	8309	40.25	13.05	1.0	95.0
R2JHOURS	7739	38.30	14.64	0.0	95.0
R3JHOURS	6709	37.27	14.93	0.0	95.0
R4JHOURS	8205	37.41	15.28	0.0	168.0
R5JHOURS	7028	36.85	15.89	0.0	168.0

R6JHOURS	5933	35.64	15.53	0.0	168.0
R7JHOURS	7666	36.89	15.46	0.0	168.0
R8JHOURS	6467	36.14	15.88	0.0	168.0
R9JHOURS	5738	35.40	15.47	0.0	168.0
R10JHOURS	8655	36.94	15.35	0.0	168.0
R11JHOURS	7727	36.64	14.99	0.0	168.0
R12JHOURS	6693	36.08	14.96	0.0	152.0
S1JHOURS	6549	40.43	13.23	1.0	95.0
S2JHOURS	5972	38.71	14.64	0.0	95.0
S3JHOURS	5099	37.54	14.95	0.0	95.0
S4JHOURS	6093	37.79	15.43	0.0	168.0
S5JHOURS	5258	37.35	16.18	0.0	168.0
S6JHOURS	4413	36.05	15.82	0.0	168.0
S7JHOURS	5642	37.34	15.61	0.0	168.0
S8JHOURS	4757	36.64	15.81	0.0	168.0
S9JHOURS	4157	35.80	15.56	0.0	168.0
S10JHOURS	5986	37.31	15.29	0.0	144.0
S11JHOURS	5344	37.20	15.06	0.0	168.0
S12JHOURS	4563	36.70	15.06	0.0	152.0
R1JHOUR2	968	14.56	12.34	0.0	95.0
R2JHOUR2	704	14.15	11.56	0.0	70.0
R3JHOUR2	635	14.63	13.02	1.0	96.0
R4JHOUR2	828	14.73	14.20	0.0	96.0
R5JHOUR2	628	15.00	12.85	0.0	95.0
R6JHOUR2	525	14.82	13.72	0.0	96.0
R7JHOUR2	815	13.30	11.25	0.0	96.0
R8JHOUR2	645	13.46	11.52	0.0	80.0
R9JHOUR2	563	13.47	11.99	0.0	80.0
R10JHOUR2	1059	12.96	11.30	0.0	80.0
R11JHOUR2	901	12.77	10.82	0.0	60.0
R12JHOUR2	764	13.48	10.46	0.0	70.0
S1JHOUR2	734	14.24	12.57	0.0	95.0
S2JHOUR2	556	14.15	12.02	0.0	70.0
S3JHOUR2	470	14.64	13.76	1.0	96.0
S4JHOUR2	600	14.83	14.48	0.0	96.0
S5JHOUR2	469	15.05	13.56	0.0	95.0
S6JHOUR2	403	14.47	12.79	0.0	80.0
S7JHOUR2	599	13.45	11.55	0.0	96.0
S8JHOUR2	469	13.30	11.54	0.0	80.0
S9JHOUR2	379	13.59	12.57	0.0	80.0
S10JHOUR2	730	12.93	11.94	0.0	80.0
S11JHOUR2	659	12.63	11.14	0.0	60.0
S12JHOUR2	514	13.64	10.61	0.0	60.0

## How Constructed

RwJHOURS is the usual number of hours per week the Respondent works at her/his main job. RwJHOUR2 is the usual number of hours per week the Respondent works at a second job.

If the Respondent is working for pay then s/he is asked how many hours per week s/he usually works at the main job. RwJHOURS recodes missings for this variable. If the Respondent is not working it is set to a .W missing code.

RwJHOUR2 recodes missings for usual number of hours worked at a second job, if any. If the Respondent is not working a second job it is set to a .W missing code.

In Wave 2A, there was no question about a second job. So for AHEAD Respondents, R2JHOUR2 is set to the .Q SAS special missing value, to indicate that no information is available.

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJHOURS and RwJHOUR2.

## Cross Wave Differences in Original HRS Data

Usual hours of work per week is asked of working Respondents at every wave. The question wording remains the same across waves and asks:

If the Respondent works for a firm: "How many hours a week do you usually work on this job?"

If the Respondent is self-employed: "How many hours a week do you usually work in this business?"

For a second job: "How many hours a week do you usually work on (this other job/these other jobs)?"

In all waves, it is not asked if the Respondent is not working.

In Waves 1, 2H and 3A, the question about the main job is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not. In Waves 2H and 3A, the question about the second job is also asked separately, based on the Respondent's self-employment status. From Wave 3H forward, the question wording about the main job varies depending on the Respondent's self-employment status, but the result appears in the same variable.

## HRS Variables Used

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HRS 1992:
V12717      F2:ANY WRK FOR PAY   :IND
V2717       F2:ANY WRK FOR PAY   :IMP
V2722       F8:WRK HRS/WK:THIS JOB
V2822       F28:S-E:WRK HRS/WK
V3327       F86:DNG ANY OTR WRK  :IMP
V3332       F87:HRS/WK WRK OTHR JOB
AHEAD 1993:
B1174       G1. WORKING CURRENTLY?
B1186       G6. CURR WORK: # HOURS PER WEEK
HRS 1994:
W3316       FA2.WORKING FOR PAY
W3617       FA44.HOURS WORK PER WEEK
W3956       FA117.ANY OTHER PAID WOR
W3961       FA118.HOURS/WEEK ON 2ND
W4313       FB17.HOURS WORK PER WEEK
W4611       FB77.ANY OTHER PAID WORK
W4616       FB78.HOURS/WEEK SECOND J
AHEAD 1995:
D2626M1     GA1. CURRENT JOB STATUS
D2626M2     GA1. CURRENT JOB STATUS
D2626M3     GA1. CURRENT JOB STATUS
D2651       GA2.WORKING ANY CURRENT

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D2836	GA44. HOURS/WEEK WORKED
D3110	GA117. ANY OTHER PAID WORK
D3112	GA118. HOURS/WEEK SECOND JOBS
D3256	GB17. HOURS/WEEK WORKED
HRS 1996:	
E2627	G2.WORKING FOR PAY
E2736	G44.HOURS WORK PER WEEK
E3019	G128.ANY OTHER PAID WORK
E3021	G129.HOURS/WEEK ON 2ND JOB
HRS 1998:	
F3131	G2.WORKING FOR PAY
F3259	G44.HOURS WORK PER WEEK
F3549	G128.ANY OTHER PAID WORK
F3551	G129.HOURS/WEEK ON 2ND JOB
HRS 2000:	
G3381	G2.WORKING FOR PAY
G3509	G44.HOURS WORK PER WEEK
G3838	G128.ANY OTHER PAID WORK
G3840	G129.HOURS/WEEK ON 2ND JOB
HRS 2002:	
HJ020	WORKING FOR PAY
HJ172	HRS WORK PER WEEK
HJ553	ANY OTR PAID WORK
HJ556	HRS/WK ON 2ND JOB
HRS 2004:	
JJ020	WORKING FOR PAY
JJ172	HRS WORK PER WEEK
JJ553	ANY OTR PAID WORK
JJ556	HRS/WK ON 2ND JOB
HRS 2006:	
KJ020	WORKING FOR PAY
KJ172	HRS WORK PER WEEK
KJ553	ANY OTR PAID WORK
KJ556	HRS/WK ON 2ND JOB
HRS 2008:	
LJ020	WORKING FOR PAY
LJ172	HRS WORK PER WEEK
LJ553	ANY OTR PAID WORK
LJ556	HRS/WK ON 2ND JOB
HRS 2010:	
MJ020	WORKING FOR PAY
MJ172	HRS WORK PER WEEK
MJ553	ANY OTR PAID WORK
MJ556	HRS/WK ON 2ND JOB
HRS 2012:	
NJ020	WORKING FOR PAY
NJ172	HRS WORK PER WEEK
NJ553	ANY OTR PAID WORK
NJ556	HRS/WK ON 2ND JOB
HRS 2014:	
OJ020	WORKING FOR PAY
OJ172	HRS WORK PER WEEK
OJ553	ANY OTR PAID WORK
OJ556	HRS/WK ON 2ND JOB



### Weeks worked per year at current job

Wave	Variable	Label	Type
1	R1JWEEKS	R1JWEEKS:W1 Weeks worked/year main job	Cont
2	R2JWEEKS	R2JWEEKS:W2 Weeks worked/year main job	Cont
3	R3JWEEKS	R3JWEEKS:W3 Weeks worked/year main job	Cont
4	R4JWEEKS	R4JWEEKS:W4 Weeks worked/year main job	Cont
5	R5JWEEKS	R5JWEEKS:W5 Weeks worked/year main job	Cont
6	R6JWEEKS	R6JWEEKS:W6 Weeks worked/year main job	Cont
7	R7JWEEKS	R7JWEEKS:W7 Weeks worked/year main job	Cont
8	R8JWEEKS	R8JWEEKS:W8 Weeks worked/year main job	Cont
9	R9JWEEKS	R9JWEEKS:W9 Weeks worked/year main job	Cont
10	R10JWEEKS	R10JWEEKS:W10 Weeks worked/year main job	Cont
11	R11JWEEKS	R11JWEEKS:W11 Weeks worked/year main job	Cont
12	R12JWEEKS	R12JWEEKS:W12 Weeks worked/year main job	Cont
1	S1JWEEKS	S1JWEEKS:W1 Weeks worked/year main job	Cont
2	S2JWEEKS	S2JWEEKS:W2 Weeks worked/year main job	Cont
3	S3JWEEKS	S3JWEEKS:W3 Weeks worked/year main job	Cont
4	S4JWEEKS	S4JWEEKS:W4 Weeks worked/year main job	Cont
5	S5JWEEKS	S5JWEEKS:W5 Weeks worked/year main job	Cont
6	S6JWEEKS	S6JWEEKS:W6 Weeks worked/year main job	Cont
7	S7JWEEKS	S7JWEEKS:W7 Weeks worked/year main job	Cont
8	S8JWEEKS	S8JWEEKS:W8 Weeks worked/year main job	Cont
9	S9JWEEKS	S9JWEEKS:W9 Weeks worked/year main job	Cont
10	S10JWEEKS	S10JWEEKS:W10 Weeks worked/year main job	Cont
11	S11JWEEKS	S11JWEEKS:W11 Weeks worked/year main job	Cont
12	S12JWEEKS	S12JWEEKS:W12 Weeks worked/year main job	Cont
1	R1JWEEK2	R1JWEEK2:W1 Weeks worked/year 2nd job	Cont
2	R2JWEEK2	R2JWEEK2:W2 Weeks worked/year 2nd job	Cont
3	R3JWEEK2	R3JWEEK2:W3 Weeks worked/year 2nd job	Cont
4	R4JWEEK2	R4JWEEK2:W4 Weeks worked/year 2nd job	Cont
5	R5JWEEK2	R5JWEEK2:W5 Weeks worked/year 2nd job	Cont
6	R6JWEEK2	R6JWEEK2:W6 Weeks worked/year 2nd job	Cont
7	R7JWEEK2	R7JWEEK2:W7 Weeks worked/year 2nd job	Cont
8	R8JWEEK2	R8JWEEK2:W8 Weeks worked/year 2nd job	Cont
9	R9JWEEK2	R9JWEEK2:W9 Weeks worked/year 2nd job	Cont
10	R10JWEEK2	R10JWEEK2:W10 Weeks worked/year 2nd job	Cont
11	R11JWEEK2	R11JWEEK2:W11 Weeks worked/year 2nd job	Cont
12	R12JWEEK2	R12JWEEK2:W12 Weeks worked/year 2nd job	Cont
1	S1JWEEK2	S1JWEEK2:W1 Weeks worked/year 2nd job	Cont
2	S2JWEEK2	S2JWEEK2:W2 Weeks worked/year 2nd job	Cont
3	S3JWEEK2	S3JWEEK2:W3 Weeks worked/year 2nd job	Cont
4	S4JWEEK2	S4JWEEK2:W4 Weeks worked/year 2nd job	Cont
5	S5JWEEK2	S5JWEEK2:W5 Weeks worked/year 2nd job	Cont
6	S6JWEEK2	S6JWEEK2:W6 Weeks worked/year 2nd job	Cont
7	S7JWEEK2	S7JWEEK2:W7 Weeks worked/year 2nd job	Cont
8	S8JWEEK2	S8JWEEK2:W8 Weeks worked/year 2nd job	Cont
9	S9JWEEK2	S9JWEEK2:W9 Weeks worked/year 2nd job	Cont
10	S10JWEEK2	S10JWEEK2:W10 Weeks worked/year 2nd job	Cont
11	S11JWEEK2	S11JWEEK2:W11 Weeks worked/year 2nd job	Cont
12	S12JWEEK2	S12JWEEK2:W12 Weeks worked/year 2nd job	Cont

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JWEEKS	8225	49.45	6.91	1.0	52.0
R2JWEEKS	7724	48.79	8.36	0.0	52.0
R3JWEEKS	6721	48.22	9.12	0.0	52.0
R4JWEEKS	8193	48.28	9.06	0.0	52.0
R5JWEEKS	6998	48.11	9.10	0.0	52.0

R6JWEEKS	5912	47.85	9.54	0.0	52.0
R7JWEEKS	7641	48.07	9.43	0.0	52.0
R8JWEEKS	6482	48.02	9.42	0.0	52.0
R9JWEEKS	5744	47.66	10.03	0.0	52.0
R10JWEEKS	8492	47.75	9.79	0.0	52.0
R11JWEEKS	7562	47.84	9.48	0.0	52.0
R12JWEEKS	6512	47.50	9.86	0.0	52.0
S1JWEEKS	6492	49.42	6.93	1.0	52.0
S2JWEEKS	5963	48.84	8.25	0.0	52.0
S3JWEEKS	5109	48.13	9.23	0.0	52.0
S4JWEEKS	6085	48.17	9.13	0.0	52.0
S5JWEEKS	5231	48.05	9.08	0.0	52.0
S6JWEEKS	4406	47.66	9.65	0.0	52.0
S7JWEEKS	5636	47.92	9.54	0.0	52.0
S8JWEEKS	4772	47.90	9.60	0.0	52.0
S9JWEEKS	4165	47.63	9.99	0.0	52.0
S10JWEEKS	5891	47.65	9.89	0.0	52.0
S11JWEEKS	5256	47.79	9.50	0.0	52.0
S12JWEEKS	4464	47.51	9.70	0.0	52.0
R1JWEEK2	960	38.61	17.92	1.0	52.0
R2JWEEK2	692	38.64	17.44	0.0	52.0
R3JWEEK2	636	39.26	17.41	1.0	52.0
R4JWEEK2	816	38.03	17.96	1.0	52.0
R5JWEEK2	624	38.36	18.01	1.0	52.0
R6JWEEK2	526	38.60	17.96	1.0	52.0
R7JWEEK2	819	37.86	17.91	1.0	52.0
R8JWEEK2	649	38.65	17.56	1.0	52.0
R9JWEEK2	577	37.27	18.13	1.0	52.0
R10JWEEK2	1053	35.90	18.32	1.0	52.0
R11JWEEK2	884	35.51	17.83	1.0	52.0
R12JWEEK2	763	34.82	18.18	1.0	52.0
S1JWEEK2	732	37.53	18.30	1.0	52.0
S2JWEEK2	544	37.87	17.62	0.0	52.0
S3JWEEK2	471	39.08	17.30	1.0	52.0
S4JWEEK2	593	37.28	18.30	1.0	52.0
S5JWEEK2	462	37.68	18.61	1.0	52.0
S6JWEEK2	404	38.63	17.79	1.0	52.0
S7JWEEK2	608	37.37	18.08	1.0	52.0
S8JWEEK2	476	38.29	17.55	1.0	52.0
S9JWEEK2	393	36.56	18.37	1.0	52.0
S10JWEEK2	724	35.21	18.48	1.0	52.0
S11JWEEK2	647	34.97	18.01	1.0	52.0
S12JWEEK2	523	34.42	18.21	1.0	52.0

## How Constructed

RwJWEEKS is the usual number of weeks per year the Respondent works at her/his main job, counting paid vacation as weeks worked. RwJHOUR2 is the usual number of hours per week the Respondent works at a second job.

If the Respondent is working for pay then s/he is asked how many weeks per year s/he usually works at the main job. RwJWEEKS recodes missings for this variable. If the Respondent is not working, it is set to a .W missing code.

RwJWEEK2 recodes missings for usual number of weeks worked at a second job, if any. If the Respondent is not working a second job it is set to a .W missing code.

In Wave 2A, there was no question about a second job. So for the AHEAD Respondents, R2JWEEK2 is set to the .Q SAS special missing value, to indicate that no information is available.

The spouse variables are taken from the Wave "w" spouse's self-reports, i.e., from the Wave "w" spouse's RwJWEEKS and RwJWEEK2.

## Cross Wave Differences in Original HRS Data

Usual number of weeks worked per year is asked of working Respondent at each wave. The question wording remains the same across waves and asks:

"Main job: Counting paid vacations as weeks of work, how many weeks a year do you usually work on this job?"

"If second job(s): Counting paid vacations as weeks of work, how many weeks a year do you usually work on (this other job/these other jobs)?"

In all waves, it is not asked if the Respondent is not working.

In Waves 1, 2H and 3A, the question about the main job is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not. In Waves 2H and 3A, the question about the second job is also asked separately based on the Respondent's self-employment status. From Wave 3H forward, the question wording about the main job varies depending on the Respondent's self-employment status, but the result appears in the same variable.

## HRS Variables Used

HRS 1992:	
V12717	F2:ANY WRK FOR PAY :IND
V2717	F2:ANY WRK FOR PAY :IMP
V2726	F10:WKS/YR WORKING
V2823	F29:S-E:WRKING WKS /YR
V3327	F86:DNG ANY OTR WRK :IMP
V3333	F88:WKS/YR WRK OTHR JOB
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1187	G6A. CURR WORK: # WEEKS PER YEAR
HRS 1994:	
W3316	FA2.WORKING FOR PAY
W3623	FA47.NUMBER WEEKS PER YE
W3956	FA117.ANY OTHER PAID WOR
W3962	FA119.WEEKS/YEAR ON 2ND
W4314	FB18.WEEKS WORK PER YEAR
W4611	FB77.ANY OTHER PAID WORK
W4617	FB79.WEEKS/YEAR SECOND J
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2651	GA2.WORKING ANY CURRENT
D2846	GA47. WEEKS/YEAR WORKED

D3110	GA117. ANY OTHER PAID WORK
D3113	GA119. WEEKS/YEAR SECOND JOBS
D3257	GB18. WEEKS/YEAR WORKED
HRS 1996:	
E2627	G2.WORKING FOR PAY
E2746	G47.WEEKS PER YEAR USUALLY WORK
E3019	G128.ANY OTHER PAID WORK
E3022	G130.WEEKS/YEAR ON 2ND JOB
HRS 1998:	
F3131	G2.WORKING FOR PAY
F3269	G47.WEEKS PER YEAR USUALLY WORK
F3549	G128.ANY OTHER PAID WORK
F3552	G130.WEEKS/YEAR ON 2ND JOB
HRS 2000:	
G3381	G2.WORKING FOR PAY
G3519	G47.WEEKS PER YEAR USUALLY WORK
G3838	G128.ANY OTHER PAID WORK
G3841	G130.WEEKS/YEAR ON 2ND JOB
HRS 2002:	
HJ020	WORKING FOR PAY
HJ179	WKS PR YR USUALLY WORK
HJ553	ANY OTR PAID WORK
HJ557	WKS/YR ON 2ND JOB
HRS 2004:	
JJ020	WORKING FOR PAY
JJ179	WKS PR YR USUALLY WORK
JJ553	ANY OTR PAID WORK
JJ557	WKS/YR ON 2ND JOB
HRS 2006:	
KJ020	WORKING FOR PAY
KJ179	WKS PR YR USUALLY WORK
KJ553	ANY OTR PAID WORK
KJ557	WKS/YR ON 2ND JOB
HRS 2008:	
LJ020	WORKING FOR PAY
LJ179	WKS PR YR USUALLY WORK
LJ553	ANY OTR PAID WORK
LJ557	WKS/YR ON 2ND JOB
HRS 2010:	
MJ020	WORKING FOR PAY
MJ179	WKS PR YR USUALLY WORK
MJ553	ANY OTR PAID WORK
MJ557	WKS/YR ON 2ND JOB
HRS 2012:	
NJ020	WORKING FOR PAY
NJ179	WKS PR YR USUALLY WORK
NJ553	ANY OTR PAID WORK
NJ557	WKS/YR ON 2ND JOB
HRS 2014:	
OJ020	WORKING FOR PAY
OJ179	WKS PR YR USUALLY WORK
OJ553	ANY OTR PAID WORK
OJ557	WKS/YR ON 2ND JOB

<b>Wage rate</b>
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Wave	Variable	Label	Type
1	R1WGIHR	R1WGIHR:W1 Imputed Wage Rate-Hrly	Cont
2	R2WGIHR	R2WGIHR:W2 Imputed Wage Rate-Hrly	Cont
3	R3WGIHR	R3WGIHR:W3 Imputed Wage Rate-Hrly	Cont
4	R4WGIHR	R4WGIHR:W4 Imputed Wage Rate-Hrly	Cont
5	R5WGIHR	R5WGIHR:W5 Imputed Wage Rate-Hrly	Cont
6	R6WGIHR	R6WGIHR:W6 Imputed Wage Rate-Hrly	Cont
7	R7WGIHR	R7WGIHR:W7 Imputed Wage Rate-Hrly	Cont
8	R8WGIHR	R8WGIHR:W8 Imputed Wage Rate-Hrly	Cont
9	R9WGIHR	R9WGIHR:W9 Imputed Wage Rate-Hrly	Cont
10	R10WGIHR	R10WGIHR:W10 Imputed Wage Rate-Hrly	Cont
11	R11WGIHR	R11WGIHR:W11 Imputed Wage Rate-Hrly	Cont
12	R12WGIHR	R12WGIHR:W12 Imputed Wage Rate-Hrly	Cont
1	S1WGIHR	S1WGIHR:W1 Imputed Wage Rate-Hrly	Cont
2	S2WGIHR	S2WGIHR:W2 Imputed Wage Rate-Hrly	Cont
3	S3WGIHR	S3WGIHR:W3 Imputed Wage Rate-Hrly	Cont
4	S4WGIHR	S4WGIHR:W4 Imputed Wage Rate-Hrly	Cont
5	S5WGIHR	S5WGIHR:W5 Imputed Wage Rate-Hrly	Cont
6	S6WGIHR	S6WGIHR:W6 Imputed Wage Rate-Hrly	Cont
7	S7WGIHR	S7WGIHR:W7 Imputed Wage Rate-Hrly	Cont
8	S8WGIHR	S8WGIHR:W8 Imputed Wage Rate-Hrly	Cont
9	S9WGIHR	S9WGIHR:W9 Imputed Wage Rate-Hrly	Cont
10	S10WGIHR	S10WGIHR:W10 Imputed Wage Rate-Hrly	Cont
11	S11WGIHR	S11WGIHR:W11 Imputed Wage Rate-Hrly	Cont
12	S12WGIHR	S12WGIHR:W12 Imputed Wage Rate-Hrly	Cont
1	R1WGIWK	R1WGIWK:W1 Imputed Wage Rate-Wkly	Cont
2	R2WGIWK	R2WGIWK:W2 Imputed Wage Rate-Wkly	Cont
3	R3WGIWK	R3WGIWK:W3 Imputed Wage Rate-Wkly	Cont
4	R4WGIWK	R4WGIWK:W4 Imputed Wage Rate-Wkly	Cont
5	R5WGIWK	R5WGIWK:W5 Imputed Wage Rate-Wkly	Cont
6	R6WGIWK	R6WGIWK:W6 Imputed Wage Rate-Wkly	Cont
7	R7WGIWK	R7WGIWK:W7 Imputed Wage Rate-Wkly	Cont
8	R8WGIWK	R8WGIWK:W8 Imputed Wage Rate-Wkly	Cont
9	R9WGIWK	R9WGIWK:W9 Imputed Wage Rate-Wkly	Cont
10	R10WGIWK	R10WGIWK:W10 Imputed Wage Rate-Wkly	Cont
11	R11WGIWK	R11WGIWK:W11 Imputed Wage Rate-Wkly	Cont
12	R12WGIWK	R12WGIWK:W12 Imputed Wage Rate-Wkly	Cont
1	S1WGIWK	S1WGIWK:W1 Imputed Wage Rate-Wkly	Cont
2	S2WGIWK	S2WGIWK:W2 Imputed Wage Rate-Wkly	Cont
3	S3WGIWK	S3WGIWK:W3 Imputed Wage Rate-Wkly	Cont
4	S4WGIWK	S4WGIWK:W4 Imputed Wage Rate-Wkly	Cont
5	S5WGIWK	S5WGIWK:W5 Imputed Wage Rate-Wkly	Cont
6	S6WGIWK	S6WGIWK:W6 Imputed Wage Rate-Wkly	Cont
7	S7WGIWK	S7WGIWK:W7 Imputed Wage Rate-Wkly	Cont
8	S8WGIWK	S8WGIWK:W8 Imputed Wage Rate-Wkly	Cont
9	S9WGIWK	S9WGIWK:W9 Imputed Wage Rate-Wkly	Cont
10	S10WGIWK	S10WGIWK:W10 Imputed Wage Rate-Wkly	Cont
11	S11WGIWK	S11WGIWK:W11 Imputed Wage Rate-Wkly	Cont
12	S12WGIWK	S12WGIWK:W12 Imputed Wage Rate-Wkly	Cont
1	R1WGFHR	R1WGFHR:W1 Impute Flag Wage Rate-Hrly	Categ
2	R2WGFHR	R2WGFHR:W2 Impute Flag Wage Rate-Hrly	Categ
3	R3WGFHR	R3WGFHR:W3 Impute Flag Wage Rate-Hrly	Categ
4	R4WGFHR	R4WGFHR:W4 Impute Flag Wage Rate-Hrly	Categ
5	R5WGFHR	R5WGFHR:W5 Impute Flag Wage Rate-Hrly	Categ
6	R6WGFHR	R6WGFHR:W6 Impute Flag Wage Rate-Hrly	Categ
7	R7WGFHR	R7WGFHR:W7 Impute Flag Wage Rate-Hrly	Categ
8	R8WGFHR	R8WGFHR:W8 Impute Flag Wage Rate-Hrly	Categ
9	R9WGFHR	R9WGFHR:W9 Impute Flag Wage Rate-Hrly	Categ
10	R10WGFHR	R10WGFHR:W10 Impute Flag Wage Rate-Hrly	Categ
11	R11WGFHR	R11WGFHR:W11 Impute Flag Wage Rate-Hrly	Categ
12	R12WGFHR	R12WGFHR:W12 Impute Flag Wage Rate-Hrly	Categ
1	S1WGFHR	S1WGFHR:W1 Impute Flag Wage Rate-Hrly	Categ

2	S2WGFHR	S2WGFHR:W2	Impute Flag Wage Rate-Hrly	Categ
3	S3WGFHR	S3WGFHR:W3	Impute Flag Wage Rate-Hrly	Categ
4	S4WGFHR	S4WGFHR:W4	Impute Flag Wage Rate-Hrly	Categ
5	S5WGFHR	S5WGFHR:W5	Impute Flag Wage Rate-Hrly	Categ
6	S6WGFHR	S6WGFHR:W6	Impute Flag Wage Rate-Hrly	Categ
7	S7WGFHR	S7WGFHR:W7	Impute Flag Wage Rate-Hrly	Categ
8	S8WGFHR	S8WGFHR:W8	Impute Flag Wage Rate-Hrly	Categ
9	S9WGFHR	S9WGFHR:W9	Impute Flag Wage Rate-Hrly	Categ
10	S10WGFHR	S10WGFHR:W10	Impute Flag Wage Rate-Hrly	Categ
11	S11WGFHR	S11WGFHR:W11	Impute Flag Wage Rate-Hrly	Categ
12	S12WGFHR	S12WGFHR:W12	Impute Flag Wage Rate-Hrly	Categ
1	R1WGFWK	R1WGFWK:W1	Impute Flag Wage Rate-Wkly	Categ
2	R2WGFWK	R2WGFWK:W2	Impute Flag Wage Rate-Wkly	Categ
3	R3WGFWK	R3WGFWK:W3	Impute Flag Wage Rate-Wkly	Categ
4	R4WGFWK	R4WGFWK:W4	Impute Flag Wage Rate-Wkly	Categ
5	R5WGFWK	R5WGFWK:W5	Impute Flag Wage Rate-Wkly	Categ
6	R6WGFWK	R6WGFWK:W6	Impute Flag Wage Rate-Wkly	Categ
7	R7WGFWK	R7WGFWK:W7	Impute Flag Wage Rate-Wkly	Categ
8	R8WGFWK	R8WGFWK:W8	Impute Flag Wage Rate-Wkly	Categ
9	R9WGFWK	R9WGFWK:W9	Impute Flag Wage Rate-Wkly	Categ
10	R10WGFWK	R10WGFWK:W10	Impute Flag Wage Rate-Wkly	Categ
11	R11WGFWK	R11WGFWK:W11	Impute Flag Wage Rate-Wkly	Categ
12	R12WGFWK	R12WGFWK:W12	Impute Flag Wage Rate-Wkly	Categ
1	S1WGFWK	S1WGFWK:W1	Impute Flag Wage Rate-Wkly	Categ
2	S2WGFWK	S2WGFWK:W2	Impute Flag Wage Rate-Wkly	Categ
3	S3WGFWK	S3WGFWK:W3	Impute Flag Wage Rate-Wkly	Categ
4	S4WGFWK	S4WGFWK:W4	Impute Flag Wage Rate-Wkly	Categ
5	S5WGFWK	S5WGFWK:W5	Impute Flag Wage Rate-Wkly	Categ
6	S6WGFWK	S6WGFWK:W6	Impute Flag Wage Rate-Wkly	Categ
7	S7WGFWK	S7WGFWK:W7	Impute Flag Wage Rate-Wkly	Categ
8	S8WGFWK	S8WGFWK:W8	Impute Flag Wage Rate-Wkly	Categ
9	S9WGFWK	S9WGFWK:W9	Impute Flag Wage Rate-Wkly	Categ
10	S10WGFWK	S10WGFWK:W10	Impute Flag Wage Rate-Wkly	Categ
11	S11WGFWK	S11WGFWK:W11	Impute Flag Wage Rate-Wkly	Categ
12	S12WGFWK	S12WGFWK:W12	Impute Flag Wage Rate-Wkly	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WGIHR	7786	19.25	298.43	0.0	24000.0
R2WGIHR	7140	16.99	105.24	0.0	8000.0
R3WGIHR	6010	17.43	74.83	0.0	5000.0
R4WGIHR	7410	21.08	162.58	0.0	11111.1
R5WGIHR	6386	25.25	350.70	0.0	27000.0
R6WGIHR	5205	25.90	226.40	0.0	15625.0
R7WGIHR	6746	31.96	676.69	0.0	55250.0
R8WGIHR	5762	26.81	177.97	0.0	12345.7
R9WGIHR	5216	27.75	139.54	0.0	8333.3
R10WGIHR	8475	25.94	99.27	0.0	6520.8
R11WGIHR	7387	30.04	211.51	0.0	15306.7
R12WGIHR	6325	84.88	3211.23	0.0	241666.7
S1WGIHR	6106	20.46	335.93	0.0	24000.0
S2WGIHR	5483	17.85	118.48	0.0	8000.0
S3WGIHR	4539	17.14	38.71	0.0	1527.8
S4WGIHR	5487	22.70	186.38	0.0	11111.1
S5WGIHR	4750	27.93	405.76	0.0	27000.0
S6WGIHR	3854	28.36	261.20	0.0	15625.0
S7WGIHR	4945	35.79	788.97	0.0	55250.0
S8WGIHR	4196	26.19	82.13	0.0	4000.0

S9WGIHR	3770	29.45	157.16	0.0	8333.3
S10WGIHR	5822	27.58	113.55	0.0	6520.8
S11WGIHR	5068	32.21	246.98	0.0	15306.7
S12WGIHR	4315	92.06	3687.33	0.0	241666.7
R1WGIWK	7808	586.99	1438.46	0.0	96153.8
R2WGIWK	7165	608.93	2694.10	0.0	192306.5
R3WGIWK	6062	601.39	1557.10	0.0	91666.7
R4WGIWK	7439	703.58	5248.35	0.0	444444.0
R5WGIWK	6420	727.53	2021.22	0.0	85333.3
R6WGIWK	5231	763.59	1783.29	0.0	62500.0
R7WGIWK	6790	815.89	2210.28	0.0	110500.0
R8WGIWK	5796	859.62	2092.40	0.0	111111.1
R9WGIWK	5244	856.50	1639.35	0.0	76780.0
R10WGIWK	8506	874.98	1403.08	0.0	60000.0
R11WGIWK	7424	1022.48	7360.78	0.0	612266.7
R12WGIWK	6363	1106.85	9459.14	0.0	725000.0
S1WGIWK	6126	582.76	868.79	0.0	30000.0
S2WGIWK	5498	630.05	2919.77	0.0	192306.5
S3WGIWK	4571	619.42	1575.73	0.0	91666.7
S4WGIWK	5508	753.92	6079.36	0.0	444444.0
S5WGIWK	4773	766.52	2094.02	0.0	85333.3
S6WGIWK	3877	797.80	1667.40	0.0	62500.0
S7WGIWK	4976	866.98	2323.14	0.0	110500.0
S8WGIWK	4222	887.82	1576.27	0.0	51384.6
S9WGIWK	3789	919.13	1818.63	0.0	76780.0
S10WGIWK	5842	915.17	1203.50	0.0	26083.3
S11WGIWK	5097	1119.12	8795.16	0.0	612266.7
S12WGIWK	4341	1223.57	11332.11	0.0	725000.0
R1WGFHR	12652	3.81	3.49	1.0	9.0
R2WGFHR	19642	5.20	3.23	1.0	9.0
R3WGFHR	17991	5.73	3.33	1.0	9.0
R4WGFHR	21384	5.64	3.37	1.0	9.0
R5WGFHR	19579	5.78	3.31	1.0	9.0
R6WGFHR	18165	6.07	3.19	1.0	9.0
R7WGFHR	20129	5.75	3.34	1.0	9.0
R8WGFHR	18469	5.89	3.27	1.0	9.0
R9WGFHR	17217	5.95	3.24	1.0	9.0
R10WGFHR	22034	5.43	3.40	1.0	9.0
R11WGFHR	20554	5.59	3.37	1.0	9.0
R12WGFHR	18747	5.72	3.32	1.0	9.0
S1WGFHR	9900	3.79	3.49	1.0	9.0
S2WGFHR	13088	4.92	3.36	1.0	9.0
S3WGFHR	11915	5.41	3.44	1.0	9.0
S4WGFHR	13978	5.33	3.47	1.0	9.0
S5WGFHR	12730	5.46	3.43	1.0	9.0
S6WGFHR	11639	5.77	3.33	1.0	9.0
S7WGFHR	12972	5.43	3.45	1.0	9.0
S8WGFHR	11735	5.58	3.40	1.0	9.0
S9WGFHR	10646	5.60	3.38	1.0	9.0
S10WGFHR	13513	5.11	3.47	1.0	9.0
S11WGFHR	12488	5.27	3.46	1.0	9.0
S12WGFHR	11027	5.34	3.44	1.0	9.0
R1WGFWK	12652	3.79	3.49	1.0	9.0
R2WGFWK	19642	5.19	3.23	1.0	9.0

R3WGFWK	17991	5.71	3.34	1.0	9.0
R4WGFWK	21384	5.63	3.37	1.0	9.0
R5WGFWK	19579	5.77	3.31	1.0	9.0
R6WGFWK	18165	6.06	3.20	1.0	9.0
R7WGFWK	20129	5.73	3.34	1.0	9.0
R8WGFWK	18469	5.87	3.28	1.0	9.0
R9WGFWK	17217	5.93	3.24	1.0	9.0
R10WGFWK	22034	5.42	3.40	1.0	9.0
R11WGFWK	20554	5.57	3.37	1.0	9.0
R12WGFWK	18747	5.70	3.33	1.0	9.0
S1WGFWK	9900	3.78	3.49	1.0	9.0
S2WGFWK	13088	4.91	3.36	1.0	9.0
S3WGFWK	11915	5.39	3.45	1.0	9.0
S4WGFWK	13978	5.32	3.47	1.0	9.0
S5WGFWK	12730	5.45	3.43	1.0	9.0
S6WGFWK	11639	5.75	3.34	1.0	9.0
S7WGFWK	12972	5.41	3.45	1.0	9.0
S8WGFWK	11735	5.56	3.40	1.0	9.0
S9WGFWK	10646	5.58	3.38	1.0	9.0
S10WGFWK	13513	5.10	3.47	1.0	9.0
S11WGFWK	12488	5.25	3.46	1.0	9.0
S12WGFWK	11027	5.33	3.44	1.0	9.0

### Categorical Variable Codes

Value	R1WGFHR	R2WGFHR	R3WGFHR	R4WGFHR	R5WGFHR	R6WGFHR	R7WGFHR
1.Not unemp: wage not missn	7378	6817	5777	7171	6179	4959	6433
2.Unemp:use MR prior wage	368	293	211	218	179	233	194
3.Unemp:predicted wage fr r	40	30	22	21	28	13	119
6.LF=miss:wage=miss,no imp		3153					
8.Not in LF:wage=miss,no im	3874	8344	10941	12747	12169	11857	11975
9.InLF,not unemp:miss,no im	992	1005	1040	1227	1024	1103	1408
Value	R8WGFHR	R9WGFHR	R10WGFHR	R11WGFHR	R12WGFHR		
1.Not unemp: wage not missn	5547	4978	7576	6726	5909		
2.Unemp:use MR prior wage	186	210	438	473	347		
3.Unemp:predicted wage fr r	29	28	461	188	69		
8.Not in LF:wage=miss,no im	11612	11101	12279	11927	11444		
9.InLF,not unemp:miss,no im	1095	900	1280	1240	978		



Value	S1WGFHR	S2WGFHR	S3WGFHR	S4WGFHR	S5WGFHR	S6WGFHR	S7WGFHR
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Not unemp: wage not missn	5809	5277	4382	5325	4609	3692	4733
2.Unemp:use MR prior wage	270	185	144	151	121	153	136
3.Unemp:predicted wage fr r	27	21	13	11	20	9	76
6.LF=miss:wage=miss,no imp		1483					
8.Not in LF:wage=miss,no im	3008	5374	6585	7579	7209	6970	6997
9.InLF,not unemp:miss,no im	786	748	791	912	771	815	1030

Value	S8WGFHR	S9WGFHR	S10WGFHR	S11WGFHR	S12WGFHR
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Not unemp: wage not missn	4061	3616	5257	4654	4061
2.Unemp:use MR prior wage	118	134	290	285	202
3.Unemp:predicted wage fr r	17	20	275	129	52
8.Not in LF:wage=miss,no im	6727	6248	6840	6574	6096
9.InLF,not unemp:miss,no im	812	628	851	846	616

Value	R1WGFWK	R2WGFWK	R3WGFWK	R4WGFWK	R5WGFWK	R6WGFWK	R7WGFWK
1.Not unemp: wage not missn	7400	6842	5829	7200	6213	4985	6477
2.Unemp:use MR prior wage	368	293	211	218	179	233	194
3.Unemp:predicted wage fr r	40	30	22	21	28	13	119
6.LF=miss:wage=miss,no imp		3153					
8.Not in LF:wage=miss,no im	3874	8344	10941	12747	12169	11857	11975
9.InLF,not unemp:miss,no im	970	980	988	1198	990	1077	1364

Value	R8WGFWK	R9WGFWK	R10WGFWK	R11WGFWK	R12WGFWK
1.Not unemp: wage not missn	5581	5006	7607	6763	5947
2.Unemp:use MR prior wage	186	210	438	473	347
3.Unemp:predicted wage fr r	29	28	461	188	69
8.Not in LF:wage=miss,no im	11612	11101	12279	11927	11444
9.InLF,not unemp:miss,no im	1061	872	1249	1203	940

Value	S1WGFWK	S2WGFWK	S3WGFWK	S4WGFWK	S5WGFWK	S6WGFWK	S7WGFWK
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
1.Not unemp: wage not missn	5829	5292	4414	5346	4632	3715	4764
2.Unemp:use MR prior wage	270	185	144	151	121	153	136
3.Unemp:predicted wage fr r	27	21	13	11	20	9	76
6.LF=miss:wage=miss,no imp		1483					
8.Not in LF:wage=miss,no im	3008	5374	6585	7579	7209	6970	6997
9.InLF,not unemp:miss,no im	766	733	759	891	748	792	999

Value	S8WGFWK	S9WGFWK	S10WGFWK	S11WGFWK	S12WGFWK
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
1.Not unemp: wage not missn	4087	3635	5277	4683	4087
2.Unemp:use MR prior wage	118	134	290	285	202
3.Unemp:predicted wage fr r	17	20	275	129	52
8.Not in LF:wage=miss,no im	6727	6248	6840	6574	6096
9.InLF,not unemp:miss,no im	786	609	831	817	590

## How Constructed

RwWGIHR is the Respondent's hourly wage rate, and RwWGIWK is the weekly wage rate.

If the Respondent is working at an interview, s/he is asked how much the job pays. Usual hours per week and weeks per year are also asked. The rate of pay can be reported for various periods, e.g., per hour, per week, or per year. Weekly and hourly wage rates are calculated using the usual hours worked per week, usual weeks worked per year, and the pay rate, adjusting appropriately for the periodicity of pay reported. These variables are given as gross wages.

The wage rates are left in nominal dollars. If the Respondent is working, but is missing the wage rate for the current job, the wage rate is left as missing.

For those who are unemployed, a wage rate is imputed. The imputation method is described in more detail in the "Conceptual Variables: Wages" section earlier in this document, and uses the wage rate for the most recent job, if available. If no previous wage rate is available for an unemployed Respondent, it is imputed using predicted values from regression results. Imputations are only used for unemployed persons (RwLBRF=3). If a person is not working but does not have RwLBRF=3, or is working but missing wages, no imputations are done.

The wage rate for the most recent job held before a given interview is calculated using all available reports on past jobs. This includes job history information, reports on previous interview jobs that end, and jobs that begin and end between interviews. Hourly and weekly rates are both calculated, using the same methods used to calculate the current wage rate. The most recent non-missing wage rate is then adjusted to current wave dollars. For example, if the most recent wage rate at the 1994 interview is from 1991, then the wage rate is adjusted to 1994 dollars using CPI-U.

The RwWGIHR and RwWGIWK variables include reported hourly and weekly wages for the currently employed and imputed hourly and weekly wages for the unemployed. The RwWGFHR and RwWGFWK variables are flags that indicate whether and how the wage rates are imputed.

If the Respondent is not working then we assign SAS special missing code .W for "not working."

The spouse variables are taken from the wave "w" spouse's self-report, i.e., from the spouse's RwWGIHR, RwWGIWK, RwWGFHR, and RwWGFWK.

## Cross Wave Differences in Original HRS Data

The variables used to calculate the hourly and weekly wage rate are usual hours worked per week, usual weeks worked per year, and a pay rate. Usual hours and usual weeks are asked in all waves, and the question wording is the same across waves. The questions about pay vary in the number of places the questions are asked.

In Wave 1, the current job pay is asked if the Respondent is working. If the Respondent is not working, questions ask if s/he has ever worked, and if so, ask for the usual hours worked, usual weeks worked, and pay rate at the time s/he left the last job. If the job ended more than 20 years ago, the pay question is skipped. Whether the Respondent is working or not, information about past jobs can be obtained, including hours worked per week, weeks worked per year, and earnings in the last year with the most recent past employer.

In Wave 2A, the current job pay is asked if the Respondent is working. If the Respondent is not working, questions ask if s/he did work for pay in the last two years, and if so, ask for the usual hours worked, usual weeks worked, and pay rate at the time s/he left the last job. If the Respondent is not working or has not worked for the last two years, no questions about any other past jobs are asked.

In Wave 3A, the current job pay is asked. If the Respondent's work status or employer has changed since the last interview, questions are asked about earnings at the time s/he left the previous job. Even if it is the Respondent's first interview, no questions about other past jobs are asked.

In Wave 2H and Wave 3H and in subsequent interviews, the current job pay is asked. If the Respondent's work status or employer has changed since the last interview, questions are asked about earnings at the time s/he left the previous job. There are also questions that ask about jobs that both began and ended between the prior and current interviews. These questions obtain the hours worked per week and earnings. In addition, if it is the Respondent's first interview, information is collected about past jobs, using questions similar to those described for Wave 1.

These variables are self-reported and inconsistent values do exist in the data. For example, in Wave 2H HHIDPN=45923020 reports working 8 hours per week but reports working 40 hours per week in Wave 1 and Wave 3H. Also, in Wave 12, HHIDPN=139756010 reported an annual salary of \$225,000 (OJ188) and annual business profits of \$500,000 (OJ195). But they only report working one week (OJ179) for three hours (OJ172). This value is causing large outliers in R12WGIHR, S12WGIHR, R12WGIWK and S12WGIWK.

## HRS Variables Used

HRS 1992:

V12717	F2:ANY WRK FOR PAY :IND
V12718	F3:WHO WORK FOR :IND
V12735	F16A:GROSS SALARY AM:IND
V12736	F16A:GROSS SALARY FR:IND
V12739	F16D:\$/HR REG WORK :IND
V12743	F16H: COMMISSION AMT:IND
V12744	F16H: COMMISSION FRE:IND
V12748	F16M:OTHER-GROSS PAY:IND
V12749	F16M:OTHER-GROSS FRE:IND
V12824	F30:S-E:SALARY/WAGES:IND
V12825	F30A:S-E SALARY AMT :IND
V12826	F30A:S-E SALARY FREQ:IND
V12827	F31:S-E:GET NET PROF:IND
V12828	F31A:NET PROFITS AMT:IND
V12829	F31A:NET PROFITS FRE:IND
V13401	G1: RK/PAY +FEW MOS:IND
V13405	G3:LST JB WRK SE/OTR:IND
V13412	G10:\$GROSS PY WHEN L:IND
V13413	G10:GROSS PAY - FREQ:IND
V13435	G22:R/SE:REG SAL/WAG:IND
V13437	G22A:SE:GROSS SALFRE:IND
V13438	G23:R/SE:REC PROFITS:IND
V13440	G23A:SE:NET EARN FRE:IND
V13601	H1:P/WR OTR EMP 5+ Y:IND
V13610	H10:\$GROSS PAY - \$ :IND
V13611	H10:GROSS PAY - FREQ:IND
V15905	N39A:OTHR INC AMT :IND
V2717	F2:ANY WRK FOR PAY :IMP
V2718	F3:WHO WORK FOR :IMP
V2722	F8:WRK HRS/WK:THIS JOB
V2726	F10:WKS/YR WORKING
V2735	F16A:GROSS SALARY:\$ :IMP
V2736	F16A:GROSS SALARY-FR:IMP
V2739	F16D:\$/HR REG WRK TI:IMP
V2743	F16H:GROSS COMMISSIO:IMP

V2744	F16H:COMMISSION FREQ:IMP
V2748	F16M:OTHER-GROSS PAY:IMP
V2749	F16M:OTHER-GROSS FRE:IMP
V2817	F24:STARTING GROSS PAY-\$
V2818	F24:START GROSS-FREQ
V2822	F28:S-E:WRK HRS/WK
V2823	F29:S-E:WRKING WKS /YR
V2824	F30:S-E:SALARY/WAGES:IMP
V2825	F30A:S-E:GROSS SALAR:IMP
V2826	F30A:S-E:SALARY FREQ:IMP
V2827	F31:S-EMPL:GET NET P:IMP
V2828	F31A:\$ NET PROFITS :IMP
V2829	F31A:NET PROFITS-FRE:IMP
V2835	F34:\$ EARNED WHEN STRTED
V2836	F34:EARNED-FREQ
V333	B8A:SPECIAL DIET :IMP
V3334	F89:\$ GROSS-OTHER JO:IMP
V3401	G1: RK/PAY +FEW MOS:IMP
V3405	G3:LST JB WRK SE/OTR:IMP
V3412	G10:\$GROSS PY-WHN LFT:IMP
V3413	G10:GROSS PAY-FREQ :IMP
V3419	G14:NET SAL:\$:-START
V3435	G22:R/SE:REG SALARY/:IMP
V3436	G22A:R/SE:GROSS SALA:IMP
V3437	G22A:R/SE:GROSS-FREQ:IMP
V3438	G23:R/SE:RECV PROFIT:IMP
V3439	G23A:R/SE:NET ERN/PR:IMP
V3440	G23A:R/SE:PROFIT-FRE:IMP
V3443	G26:R/SE:SAL STRT JOB:\$
V3601	H1:P/WR OTR EMP 5+ Y:IMP
V3610	H10:GROSS PAY-\$ :IMP
V3611	H10:GROSS PAY-FREQ :IMP
V3706	H27:1ST:PAY WHN LFT-:IMP
V3806	H27:NXT:PAY WHN LFT-:IMP
V4306	J43:GROSS PAY WHEN L:IMP
V4406	J64:GROSS PAY WHEN L:IMP
V4441	J83:GROSS PAY WHEN L:IMP
V4509	J93:GROSS PAY WHEN L:IMP
V53	R:STATE HRS (RECODED)
V5905	N39A:OTHR INCME: AM:IMP
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1178	G2. CURRENTLY SELF EMPLOYED
B1186	G6. CURR WORK: # HOURS PER WEEK
B1187	G6A. CURR WORK: # WEEKS PER YEAR
B1188	G7. CURR WORK: \$ EARNED LAST MONTH
B1189	G8. CURR WORK: \$ EARNED 1992-1993
B1190	G8a. CURR WORK: \$ EARNED PERIOD
B1207	G11. JOB LAST 2 YEARS: END MONTH
B1208	G11. JOB LAST 2 YEARS: END YEAR
B1225	G16. JOB LAST 2 YRS: # HOURS PER WEEK
B1226	G16b. JOB LAST 2 YRS: # WEEKS PER YEAR
B1227	G17. JOB LAST 2 YRS: TOT \$ EARN 1992/93
B1228	G17a. JOB LAST 2 YRS: TOTAL \$ EARNED PRD
HRS 1994:	
W15907	N2a. Imputation flag
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS

W3318	FA5.STOPPED WORKING FOR
W3319	FA5.STOPPED WORKING FOR
W3363	FA6.PAID REGULAR SALARY
W3364	FA6a.AMOUNT OF SALARY
W3365	FA6b.PER
W3366	FA7.RECEIVE ANY PROFITS?
W3367	FA7a.AMOUNT OF PROFITS
W3368	FA7b.PER
W3503	FA26.STOPPED WORKING FOR
W3504	FA26.STOPPED WORKING FOR
W3505	FA27.AMOUNT OF EARNINGS
W3506	FA27a.PER
W3617	FA44.HOURS WORK PER WEEK
W3623	FA47.NUMBER WEEKS PER YE
W3631	FA52.HOW PAID ON JOB
W3632	FA52a.AMOUNT SALARY
W3633	FA52b.PER
W3637	FA52f.HOURLY WAGE RATE
W3642	FA52m.AMOUNT PER TIME PE
W3643	FA52n.PER
W3645	FA52r.AMOUNT PAID
W3646	FA52s.AMOUNT PER TIME PE
W3663	FA59.START WORK FOR EMPL
W3664	FA60.STARTING PAY
W3665	FA60a.AMOUNT PER TIME PE
W3963	FA120.EARNINGS ON 2ND JO
W3964	FA120a.PER
W3999	FA129.WORK AFTER W1/BEFO
W4043	FA132.HOURS/WEEK WORKED
W4044	FA133.EARNINGS
W4045	FA133a.PER
W4200	FB2.STOPPED WORK FOR EMP
W4201	FB2a.STOPPED WORK FOR EM
W4202	FB3.EARNINGS BEFORE LEAV
W4203	FB3a.EARNINGS BEFORE LEA
W4313	FB17.HOURS WORK PER WEEK
W4314	FB18.WEEKS WORK PER YEAR
W4317	FB19.PAID A REGULAR SALA
W4318	FB19a.SELF-EMPLOYMENT SA
W4319	FB19b SELF-EMPLOYMENT SA
W4320	FB20.RECEIVE SOME/ALL NE
W4321	FB20a.NET EARNINGS/PROFI
W4322	FB20b.NET EARNINGS/PROFI
W4328	FB22a.STARTED S-E WORK-Y
W4329	FB23.ANY MONTHS SINCE W1
W4330	FB23a.MONTHS NOT IN BUSI
W4618	FB80.EARNINGS SECOND JOB
W4619	FB8a.EARNINGS SECOND JOB
W4654	FB89.WORK AFTER/BEFORE
W4698	FB92.HOURS/WEEK WORKED
W4699	FB93.EARNINGS AFTER/BEFO
W4700	FB93a.EARNINGS AFTER/BEF
W4800	FC2.MONTH STOPPED SELF-E
W4801	FC2a.YEAR STOPPED SELF-E
W4802	FC3.SELF-EMP PAID SALARY
W4803	FC3a.SELF-EMP SALARY AMO
W4804	FC3b.SELF-EMP SALARY AMO
W4805	FC4.SELF-EMP EARNINGS/PR
W4806	FC4a.SELF-EMP EARNINGS/P

W4807	FC4b.SELF-EMP EARNINGS/P
W4897	FC16.MONTH STOPPED WORK
W4898	FC16a.YEAR STOPPED WORK
W4899	FC16b.EARNINGS BEFORE LE
W4900	FC16ac.EARNINGS BEFORE L
W5038	FC47.WORK AFTER/BEFORE
W5082	FC50.HOURS/WEEK WORKED
W5083	FC51.EARNINGS AFTER/BEFO
W5084	FC51a.EARNINGS AFTER/BEF
W7021	G14.EARNINGS WHEN STARTE
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2654	GA5. MONTH STOPPED SELF-EMPL
D2655	GA5A. YEAR STOPPED SELF-EMPL
D2662	GA6. S-E PAID SALARY
D2663	GA6A. S-E SALARY AMOUNT
D2664	GA6B. S-E SALARY PER
D2675	GA7. S-E EARNINGS/PROFITS
D2676	GA7A. S-E ERNG/PROFIT AMOUNT
D2677	GA7B. S-E ERNG/PROFIT AMOUNT
D2759	GA26. MONTH STOPPED WORKING WAVE I EMPLO
D2760	GA26A. YEAR STOPPED WORKING WAVE I EMPLO
D2764	GA27. EARNINGS BEFORE LEAVING
D2765	GA27A. EARNINGS BEFORE LEAVING PER
D2836	GA44. HOURS/WEEK WORKED
D2846	GA47. WEEKS/YEAR WORKED
D2860	GA52. HOW PAID
D2862	GA52A. AMOUNT SALARY
D2863	GA52B. AMOUNT SALARY PER
D2870	GA52F. REGULAR HOURLY WAGE
D2880	GA52M. AMOUNT PAY
D2881	GA52N. AMOUNT PAY PER
D2885	GA52R. AMOUNT PAID
D2886	GA52S. AMOUNT PAID PER
D3110	GA117. ANY OTHER PAID WORK
D3112	GA118. HOURS/WEEK SECOND JOBS
D3113	GA119. WEEKS/YEAR SECOND JOBS
D3114	GA120. EARNINGS SECOND JOBS
D3115	GA120A. EARNINGS SECOND JOB PER
D3188	GB2. MONTH STOPPED SELF-EMPL
D3189	GB2A. YEAR STOPPED SELF-EMPL
D3194	GB3. EARNINGS BEFORE LEAVING
D3195	GB3A. EARNINGS BEFORE LEAVING PER
D3260	GB19. S-E PAID SALARY
D3261	GB19A. S-E SALARY AMOUNT
D3262	GB19B. S-E SALARY PER
D3264	GB20. S-E EARNINGS/PROFITS
D3265	GB20A. S-E ERNG/PROFIT AMOUNT
D3266	GB20B. S-E ERNG/PROFIT AMOUNT
D3545	GC2. MONTH STOPPED SELF-EMPL
D3546	GC2A. YEAR STOPPED SELF-EMPL
D3551	GC3. S-E PAID SALARY
D3552	GC3A. S-E SALARY AMOUNT
D3553	GC3B. S-E SALARY PER
D3564	GC4. S-E EARNINGS/PROFITS

D3565 GC4A. S-E ERNG/PROFIT AMOUNT  
 D3566 GC4B. S-E ERNG/PROFIT AMOUNT  
 D3639 GC16. MONTH STOPPED WORKING WAVE I EMPLO  
 D3640 GC16A. YEAR STOPPED WORKING WAVE I EMPLO  
 D3644 GC16B. EARNINGS BEFORE LEAVING  
 D3645 GC16AC. EARNINGS BEFORE LEAVING PER  
 HRS 1996:  
 E2627 G2.WORKING FOR PAY  
 E2628 G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED  
 E2630 G5.STOPPED WORKING FOR SELF-MONTH  
 E2631 G5A.STOPPED WORKING FOR SELF-YEAR  
 E2637 G6.PAID REGULAR SALARY  
 E2638 G6A.AMOUNT OF SALARY  
 E2639 G6B.AMOUNT OF SALARY PER  
 E2650 G7.RECEIVE ANY PROFITS?  
 E2651 G7A.AMOUNT OF PROFITS  
 E2652 G7B.AMOUNT OF PROFITS PER  
 E2667 G26.STOP WORK FOR PREV WAVE EMPLOYER-MON  
 E2668 G26A.STOP WORKING FOR PREV WAVE EMPLOYER  
 E2670 G27.AMOUNT OF EARNINGS WHEN LEFT  
 E2671 G27A.AMOUNT OF EARNINGS WHEN LEFT PER  
 E2736 G44.HOURS WORK PER WEEK  
 E2746 G47.WEEKS PER YEAR USUALLY WORK  
 E2756 G52.PAID REGULAR SALARY/WAGES?  
 E2757 G52A.SELF-EMPLOYMENT SALARY-AMOUNT  
 E2758 G52B.SELF-EMPLOYMENT SALARY-PER  
 E2760 G53.RECEIVE NET EARNINGS/PROFITS  
 E2761 G53A.NET EARNINGS/PROFITS-AMOUNT  
 E2762 G53B.NET EARNINGS/PROFITS-PER  
 E2772 G56.HOW PAID ON JOB  
 E2774 G56A.AMOUNT SALARY  
 E2775 G56B.AMOUNT SALARY PER  
 E2781 G56F.HOURLY WAGE RATE  
 E2791 G56M.AMOUNT PER TIME PERIOD  
 E2792 G56N.AMOUNT PER TIME PERIOD PER  
 E2796 G56R.AMOUNT PAID  
 E2797 G56S.AMOUNT PAID PER  
 E3019 G128.ANY OTHER PAID WORK  
 E3021 G129.HOURS/WEEK ON 2ND JOB  
 E3022 G130.WEEKS/YEAR ON 2ND JOB  
 E3023 G131.EARNINGS ON 2ND JOB  
 E3024 G131A.PER  
 E3057 G141.WORK BEFORE CURRENT EMPLOYMENT  
 E3059 G143.HOURS/WEEK WORKED  
 E3060 G144.EARNINGS DURING WORKING MONTHS  
 E3061 G144A.EARNINGS DURING WORKING MONTHS PER  
 E3125 GG1.EVER WRKD FOR PAY MORE THN FEW MTHS?  
 E3127 GG1A.LAST WORKED-YEAR  
 E3128 GG1A.LAST WORKED-YEARS AGO  
 E3135 GG7.HOURS WORK PER WEEK  
 E3138 GG9.WEEKS WORK PER YEAR  
 E3139 GG10.EARNINGS WHEN LEFT  
 E3140 GG10.EARNINGS WHEN LEFT PER  
 E3325 GH1.OTHER EMPLOYER 5+ YEARS  
 E3337 GH7.LEFT EMPLOYER-YEAR  
 E3338 GH7.LEFT EMPLOYER-YEARS AGO  
 E3339 GH7.LEFT EMPLOYER-AGE  
 E3342 GH8.HOURS WORKED PER WEEK  
 E3343 GH9.WEEKS WORKED PER YEAR

E3344	GH10.EARNINGS IN LAST YEAR
E3345	GH10.PER TIME UNIT
HRS 1998:	
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3134	G5.STOPPED WORKING FOR SELF-MONTH
F3135	G5A.STOPPED WORKING FOR SELF-YEAR
F3141	G6.PAID REGULAR SALARY
F3142	G6A.AMOUNT OF SALARY
F3143	G6B.AMOUNT OF SALARY-PER
F3154	G7.RECEIVE ANY PROFITS?
F3155	G7A.AMOUNT OF PROFITS
F3156	G7B.AMOUNT OF PROFITS-PER
F3188	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
F3189	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
F3191	G27.AMOUNT OF EARNINGS WHEN LEFT
F3192	G27A.AMOUNT OF EARNINGS WHEN LEFT-PER
F3259	G44.HOURS WORK PER WEEK
F3269	G47.WEEKS PER YEAR USUALLY WORK
F3279	G52.PAID REGULAR SALARY/WAGES?
F3280	G52A.SELF-EMPLOYMENT SALARY-AMOUNT
F3281	G52B.SELF-EMPLOYMENT SALARY-PER
F3283	G53.RECEIVE NET EARNINGS/PROFITS
F3284	G53A.NET EARNINGS/PROFITS-AMOUNT
F3285	G53B.NET EARNINGS/PROFITS-PER
F3295	G56.HOW PAID ON JOB
F3297	G56A.AMOUNT SALARY
F3298	G56B.AMOUNT SALARY-PER
F3304	G56F.HOURLY WAGE RATE
F3314	G56M.AMOUNT PER TIME PERIOD
F3315	G56N.AMOUNT PER TIME PERIOD-PER
F3319	G56R.AMOUNT PAID
F3320	G56S.AMOUNT PAID-PER
F3549	G128.ANY OTHER PAID WORK
F3551	G129.HOURS/WEEK ON 2ND JOB
F3552	G130.WEEKS/YEAR ON 2ND JOB
F3553	G131.EARNINGS ON 2ND JOB
F3554	G131A.EARNINGS ON 2ND JOB-PER
F3589	G141.WORK BEFORE CURRENT EMPLOYMENT
F3591	G143.HOURS/WEEK WORKED
F3592	G144.EARNINGS
F3593	G144A.EARNINGS-PER
F3643	GG1.EVER WORKED FOR PAY MORE THAN FEW MT
F3644	GG1A1.LAST WORKED WHEN-YEAR
F3645	GG1A2.LAST WORKED WHEN-YEARS AGO
F3653	GG7.HOURS WORK PER WEEK
F3656	GG9.WEEKS WORK PER YEAR
F3657	GG10.EARNINGS WHEN LEFT
F3658	GG10.EARNINGS WHEN LEFT-PER
F3830	GH1.OTHER EMPLOYER 5+ YEARS
F3842	GH7.LEFT EMPLOYER-YEAR
F3843	GH7.LEFT EMPLOYER-YEARS AGO
F3844	GH7.LEFT EMPLOYER-AGE
F3847	GH8.HOURS WORKED PER WEEK
F3848	GH9.WEEKS WORKED PER YEAR
F3849	GH10.EARNINGS IN LAST YEAR
F3850	GH10.PER TIME UNIT
HRS 2000:	
G3381	G2.WORKING FOR PAY



G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3384	G5.STOPPED WORKING FOR SELF-MONTH
G3385	G5A.STOPPED WORKING FOR SELF-YEAR
G3392	G6.PAID REGULAR SALARY
G3393	G6A.AMOUNT OF SALARY
G3394	G6B.PER
G3404	G7.RECEIVE ANY PROFITS?
G3405	G7A.AMOUNT OF PROFITS
G3406	G7B.PER
G3437	G26.STOP WORK PREV WAVE EMPLOYR-MO
G3438	G26A.STOP WORK PREV WAVE EMPLOYR-YR
G3441	G27.AMOUNT OF EARNINGS WHEN LEFT
G3442	G27A.PER
G3509	G44.HOURS WORK PER WEEK
G3519	G47.WEEKS PER YEAR USUALLY WORK
G3539	G52.PAID REGULAR SALARY/WAGES?
G3540	G52A.SELF-EMPLOYMENT SALARY-AMOUNT
G3541	G52B.SELF-EMPLOYMENT SALARY-PER
G3543	G53.RECEIVE NET EARNINGS/PROFITS
G3544	G53A.NET EARNINGS/PROFITS-AMOUNT
G3545	G53B.NET EARNINGS/PROFITS-PER
G3555	G56.HOW PAID ON JOB
G3557	G56A.AMOUNT SALARY
G3558	G56B.PER
G3564	G56F.HOURLY WAGE RATE
G3574	G56M.AMOUNT PER TIME PERIOD
G3575	G56N.PER
G3579	G56R.AMOUNT PAID
G3580	G56S.PER
G3838	G128.ANY OTHER PAID WORK
G3840	G129.HOURS/WEEK ON 2ND JOB
G3841	G130.WEEKS/YEAR ON 2ND JOB
G3842	G131.EARNINGS ON 2ND JOB
G3843	G131A.PER
G3877	G141.WORK BEFORE CURRENT EMPLOYMENT
G3879	G143.HOURS/WEEK WORKED
G3880	G144.EARNINGS
G3881	G144A.PER
G3953	GG1.WORK FOR PAY MORE THAN FEW MOS
G3954	GG1A1.LAST WORKED WHEN-YEAR
G3955	GG1A2.LAST WORKED WHEN-YEARS AGO
G3963	GG7.HOURS WORK PER WEEK
G3966	GG9.WEEKS WORK PER YEAR
G3967	GG10.EARNINGS WHEN LEFT
G3968	GG10Y1. PER
G4092	GH1.OTHER EMPLOYER 5+ YEARS
G4104	GH7.LEFT EMPLOYER-YEAR
G4105	GH7Y1. LEFT EMPLOYER-YEARS AGO
G4106	GH7Y2. LEFT EMPLOYER-AGE
G4109	GH8.HOURS WORKED PER WEEK
G4110	GH9.WEEKS WORKED PER YEAR
G4111	GH10.EARNINGS IN LAST YEAR
G4112	GH10Y1. PER TIME UNIT
HRS 2002:	
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ023	STOPPED WORKING FOR SLF-MO
HJ024	STOPPED WORKING FOR SLF- YR
HJ031	PAID REGULAR SALARY

HJ032	AMOUNT OF SALARY
HJ036	AMOUNT OF SALARY PER
HJ038	RECEIVE ANY PROFITS
HJ039	AMOUNT OF NET PROFITS/EARNINGS
HJ043	AMOUNT OF NET PROFITS/EARNINGS PER
HJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
HJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
HJ067	AMOUNT EARNING WHEN LEFT
HJ071	AMOUNT EARNING WHEN LEFT - PER
HJ172	HRS WORK PER WEEK
HJ179	WKS PR YR USUALLY WORK
HJ187	PAID REGULAR SALARY/WAGES
HJ188	SELF-EMPLOYMENT SALARY AMOUNT
HJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
HJ194	REC NET EARNINGS/PROFITS
HJ195	AMT NET EARNINGS/PROFITS
HJ199	AMT NET EARNINGS/PROFITS PER
HJ205	HOW PAID ON JOB
HJ206	AMOUNT OF SALARY ON JOB
HJ210	AMOUNT OF SALARY ON JOB PER
HJ216	HRLY WAGE RATE
HJ225	AMOUNT PAID FOR OVERTIME
HJ226	AMOUNT PAID FOR OVERTIME PER
HJ230	AMOUNT PAID- OTHER
HJ231	AMOUNT PAID- OTHER- PER
HJ553	ANY OTR PAID WORK
HJ556	HRS/WK ON 2ND JOB
HJ557	WKS/YR ON 2ND JOB
HJ558	EARNINGS ON SECOND JOB
HJ562	EARNINGS ON SECOND JOB - PER
HJ596	WORK BEFORE CURRENT EMPLOYMNT
HJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMNT
HJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMNT
HJ604	WORK B/F CURRENT EMPLOYMNT-EARNINGS- PER
HK001	WORK FOR PAY MORE THAN FEW MOS
HK002	LAST WRKED WHEN-YR
HK003	LAST WRKED WHEN-YRS AGO
HK008	HRS WRK PR WK
HK011	WKS WRK PR YR
HK013	EARNINGS WHEN LEFT- PER
HL005	OTR EMPLOYER 5+ YRS
HL016	LEFT EMPLOYER-YR
HL017	LEFT EMPLOYER-YRS AGO
HL018	LEFT EMPLOYER- AT AGE
HL020	HRS WRKED PR WK
HL021	WKS WRKED PR YR
HL022	EARNING IN LAST YR
HL023	EARNING IN LAST YR- PER
HRS 2004:	
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ023	STOPPED WORKING FOR SLF-MO
JJ024	STOPPED WORKING FOR SLF- YR
JJ031	PAID REGULAR SALARY
JJ032	AMOUNT OF SALARY
JJ036	AMOUNT OF SALARY PER
JJ038	RECEIVE ANY PROFITS
JJ039	AMOUNT OF NET PROFITS/EARNINGS
JJ043	AMOUNT OF NET PROFITS/EARNINGS PER

JJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
JJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
JJ067	AMOUNT EARNING WHEN LEFT
JJ071	AMOUNT EARNING WHEN LEFT - PER
JJ172	HRS WORK PER WEEK
JJ179	WKS PR YR USUALLY WORK
JJ187	PAID REGULAR SALARY/WAGES
JJ188	SELF-EMPLOYMENT SALARY AMOUNT
JJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
JJ194	REC NET EARNINGS/PROFITS
JJ195	AMT NET EARNINGS/PROFITS
JJ199	AMT NET EARNINGS/PROFITS PER
JJ205	HOW PAID ON JOB
JJ206	AMOUNT OF SALARY ON JOB
JJ210	AMOUNT OF SALARY ON JOB PER
JJ216	HRLY WAGE RATE
JJ225	AMOUNT PAID FOR OVERTIME
JJ226	AMOUNT PAID FOR OVERTIME PER
JJ230	AMOUNT PAID- OTHER
JJ231	AMOUNT PAID- OTHER- PER
JJ553	ANY OTR PAID WORK
JJ556	HRS/WK ON 2ND JOB
JJ557	WKS/YR ON 2ND JOB
JJ558	EARNINGS ON SECOND JOB
JJ562	EARNINGS ON SECOND JOB - PER
JJ596	WORK BEFORE CURRENT EMPLOYMNT
JJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMNT
JJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMNT
JJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
JK003	WORK FOR PAY MORE THAN FEW MOS
JK004	LAST WRKED WHEN-YR
JK005	LAST WRKED WHEN-YRS AGO
JK011	HRS WRK PR WK
JK014	WKS WRK PR YR
JK016	EARNINGS WHEN LEFT- PER
JL005	OTR EMPLOYER 5+ YRS
JL016	LEFT EMPLOYER-YR
JL017	LEFT EMPLOYER-YRS AGO
JL018	LEFT EMPLOYER- AT AGE
JL020	HRS WRKED PR WK
JL021	WKS WRKED PR YR
JL022	EARNING IN LAST YR
JL023	EARNING IN LAST YR- PER
HRS 2006:	
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ023	STOPPED WORKING FOR SLF-MO
KJ024	STOPPED WORKING FOR SLF- YR
KJ031	PAID REGULAR SALARY
KJ032	AMOUNT OF SALARY
KJ036	AMOUNT OF SALARY PER
KJ038	RECEIVE ANY PROFITS
KJ039	AMOUNT OF NET PROFITS/EARNINGS
KJ043	AMOUNT OF NET PROFITS/EARNINGS PER
KJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
KJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
KJ067	AMOUNT EARNING WHEN LEFT
KJ071	AMOUNT EARNING WHEN LEFT - PER
KJ172	HRS WORK PER WEEK

KJ179	WKS PR YR USUALLY WORK
KJ187	PAID REGULAR SALARY/WAGES
KJ188	SELF-EMPLOYMENT SALARY AMOUNT
KJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
KJ194	REC NET EARNINGS/PROFITS
KJ195	AMT NET EARNINGS/PROFITS
KJ199	AMT NET EARNINGS/PROFITS PER
KJ205	HOW PAID ON JOB
KJ206	AMOUNT OF SALARY ON JOB
KJ210	AMOUNT OF SALARY ON JOB PER
KJ216	HRLY WAGE RATE
KJ225	AMOUNT PAID FOR OVERTIME
KJ226	AMOUNT PAID FOR OVERTIME PER
KJ230	AMOUNT PAID- OTHER
KJ231	AMOUNT PAID- OTHER- PER
KJ553	ANY OTR PAID WORK
KJ556	HRS/WK ON 2ND JOB
KJ557	WKS/YR ON 2ND JOB
KJ558	EARNINGS ON SECOND JOB
KJ562	EARNINGS ON SECOND JOB - PER
KJ596	WORK BEFORE CURRENT EMPLOYMENT
KJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMENT
KJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMENT
KJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
KK003	WORK FOR PAY MORE THAN FEW MOS
KK004	LAST WRKED WHEN-YR
KK005	LAST WRKED WHEN-YRS AGO
KK011	HRS WRK PR WK
KK014	WKS WRK PR YR
KK016	EARNINGS WHEN LEFT- PER
KL005	OTR EMPLOYER 5+ YRS
KL016	LEFT EMPLOYER-YR
KL017	LEFT EMPLOYER-YRS AGO
KL018	LEFT EMPLOYER- AT AGE
KL020	HRS WRKED PR WK
KL021	WKS WRKED PR YR
KL022	EARNING IN LAST YR
KL023	EARNING IN LAST YR- PER
HRS 2008:	
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ023	STOPPED WORKING FOR SLF-MO
LJ024	STOPPED WORKING FOR SLF- YR
LJ031	PAID REGULAR SALARY
LJ032	AMOUNT OF SALARY
LJ036	AMOUNT OF SALARY PER
LJ038	RECEIVE ANY PROFITS
LJ039	AMOUNT OF NET PROFITS/EARNINGS
LJ043	AMOUNT OF NET PROFITS/EARNINGS PER
LJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
LJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
LJ067	AMOUNT EARNING WHEN LEFT
LJ071	AMOUNT EARNING WHEN LEFT - PER
LJ172	HRS WORK PER WEEK
LJ179	WKS PR YR USUALLY WORK
LJ187	PAID REGULAR SALARY/WAGES
LJ188	SELF-EMPLOYMENT SALARY AMOUNT
LJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
LJ194	REC NET EARNINGS/PROFITS

LJ195	AMT NET EARNINGS/PROFITS
LJ199	AMT NET EARNINGS/PROFITS PER
LJ205	HOW PAID ON JOB
LJ206	AMOUNT OF SALARY ON JOB
LJ210	AMOUNT OF SALARY ON JOB PER
LJ216	HRLY WAGE RATE
LJ225	AMOUNT PAID FOR OVERTIME
LJ226	AMOUNT PAID FOR OVERTIME PER
LJ230	AMOUNT PAID- OTHER
LJ231	AMOUNT PAID- OTHER- PER
LJ553	ANY OTR PAID WORK
LJ556	HRS/WK ON 2ND JOB
LJ557	WKS/YR ON 2ND JOB
LJ558	EARNINGS ON SECOND JOB
LJ562	EARNINGS ON SECOND JOB - PER
LJ596	WORK BEFORE CURRENT EMPLOYMNT
LJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMNT
LJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMNT
LJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
LK003	WORK FOR PAY MORE THAN FEW MOS
LK004	LAST WRKED WHEN-YR
LK005	LAST WRKED WHEN-YRS AGO
LK011	HRS WRK PR WK
LK014	WKS WRK PR YR
LK016	EARNINGS WHEN LEFT- PER
LL005	OTR EMPLOYER 5+ YRS
LL016	LEFT EMPLOYER-YR
LL017	LEFT EMPLOYER-YRS AGO
LL018	LEFT EMPLOYER- AT AGE
LL020	HRS WRKED PR WK
LL021	WKS WRKED PR YR
LL022	EARNING IN LAST YR
LL023	EARNING IN LAST YR- PER
HRS 2010:	
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ023	STOPPED WORKING FOR SLF-MO
MJ024	STOPPED WORKING FOR SLF- YR
MJ031	PAID REGULAR SALARY
MJ032	AMOUNT OF SALARY
MJ036	AMOUNT OF SALARY PER
MJ038	RECEIVE ANY PROFITS
MJ039	AMOUNT OF NET PROFITS/EARNINGS
MJ043	AMOUNT OF NET PROFITS/EARNINGS PER
MJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
MJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
MJ067	AMOUNT EARNING WHEN LEFT
MJ071	AMOUNT EARNING WHEN LEFT - PER
MJ172	HRS WORK PER WEEK
MJ179	WKS PR YR USUALLY WORK
MJ187	PAID REGULAR SALARY/WAGES
MJ188	SELF-EMPLOYMENT SALARY AMOUNT
MJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
MJ194	REC NET EARNINGS/PROFITS
MJ195	AMT NET EARNINGS/PROFITS
MJ199	AMT NET EARNINGS/PROFITS PER
MJ205	HOW PAID ON JOB
MJ206	AMOUNT OF SALARY ON JOB
MJ210	AMOUNT OF SALARY ON JOB PER

MJ216	HRLY WAGE RATE
MJ225	AMOUNT PAID FOR OVERTIME
MJ226	AMOUNT PAID FOR OVERTIME PER
MJ230	AMOUNT PAID- OTHER
MJ231	AMOUNT PAID- OTHER- PER
MJ553	ANY OTR PAID WORK
MJ556	HRS/WK ON 2ND JOB
MJ557	WKS/YR ON 2ND JOB
MJ558	EARNINGS ON SECOND JOB
MJ562	EARNINGS ON SECOND JOB - PER
MJ596	WORK BEFORE CURRENT EMPLOYMNT
MJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMNT
MJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMNT
MJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
MK003	WORK FOR PAY MORE THAN FEW MOS
MK004	LAST WRKED WHEN-YR
MK005	LAST WRKED WHEN-YRS AGO
MK011	HRS WRK PR WK
MK014	WKS WRK PR YR
MK016	EARNINGS WHEN LEFT- PER
ML005	OTR EMPLOYER 5+ YRS
ML016	LEFT EMPLOYER-YR
ML017	LEFT EMPLOYER-YRS AGO
ML018	LEFT EMPLOYER- AT AGE
ML020	HRS WRKED PR WK
ML021	WKS WRKED PR YR
ML022	EARNING IN LAST YR
ML023	EARNING IN LAST YR- PER
HRS 2012:	
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
NJ023	STOPPED WORKING FOR SLF-MO
NJ024	STOPPED WORKING FOR SLF- YR
NJ031	PAID REGULAR SALARY
NJ032	AMOUNT OF SALARY
NJ036	AMOUNT OF SALARY PER
NJ038	RECEIVE ANY PROFITS
NJ039	AMOUNT OF NET PROFITS/EARNINGS
NJ043	AMOUNT OF NET PROFITS/EARNINGS PER
NJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
NJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
NJ067	AMOUNT EARNING WHEN LEFT
NJ071	AMOUNT EARNING WHEN LEFT - PER
NJ172	HRS WORK PER WEEK
NJ179	WKS PR YR USUALLY WORK
NJ187	PAID REGULAR SALARY/WAGES
NJ188	SELF-EMPLOYMENT SALARY AMOUNT
NJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
NJ194	REC NET EARNINGS/PROFITS
NJ195	AMT NET EARNINGS/PROFITS
NJ199	AMT NET EARNINGS/PROFITS PER
NJ205	HOW PAID ON JOB
NJ206	AMOUNT OF SALARY ON JOB
NJ210	AMOUNT OF SALARY ON JOB PER
NJ216	HRLY WAGE RATE
NJ225	AMOUNT PAID FOR OVERTIME
NJ226	AMOUNT PAID FOR OVERTIME PER
NJ230	AMOUNT PAID- OTHER
NJ231	AMOUNT PAID- OTHER- PER

NJ553	ANY OTR PAID WORK
NJ556	HRS/WK ON 2ND JOB
NJ557	WKS/YR ON 2ND JOB
NJ558	EARNINGS ON SECOND JOB
NJ562	EARNINGS ON SECOND JOB - PER
NJ596	WORK BEFORE CURRENT EMPLOYMENT
NJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMENT
NJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMENT
NJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
NK003	WORK FOR PAY MORE THAN FEW MOS
NK004	LAST WORKED WHEN-YR
NK005	LAST WORKED WHEN-YRS AGO
NK011	HRS WRK PR WK
NK014	WKS WRK PR YR
NK016	EARNINGS WHEN LEFT- PER
NL005	OTR EMPLOYER 5+ YRS
NL016	LEFT EMPLOYER-YR
NL017	LEFT EMPLOYER-YRS AGO
NL018	LEFT EMPLOYER- AT AGE
NL020	HRS WORKED PR WK
NL021	WKS WORKED PR YR
NL022	EARNING IN LAST YR
NL023	EARNING IN LAST YR- PER
HRS 2014:	
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ023	STOPPED WORKING FOR SLF-MO
OJ024	STOPPED WORKING FOR SLF- YR
OJ031	PAID REGULAR SALARY
OJ032	AMOUNT OF SALARY
OJ036	AMOUNT OF SALARY PER
OJ038	RECEIVE ANY PROFITS
OJ039	AMOUNT OF NET PROFITS/EARNINGS
OJ043	AMOUNT OF NET PROFITS/EARNINGS PER
OJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
OJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
OJ067	AMOUNT EARNING WHEN LEFT
OJ071	AMOUNT EARNING WHEN LEFT - PER
OJ172	HRS WORK PER WEEK
OJ179	WKS PR YR USUALLY WORK
OJ187	PAID REGULAR SALARY/WAGES
OJ188	SELF-EMPLOYMENT SALARY AMOUNT
OJ192	SELF-EMPLOYMENT SALARY AMOUNT PER
OJ194	REC NET EARNINGS/PROFITS
OJ195	AMT NET EARNINGS/PROFITS
OJ199	AMT NET EARNINGS/PROFITS PER
OJ205	HOW PAID ON JOB
OJ206	AMOUNT OF SALARY ON JOB
OJ210	AMOUNT OF SALARY ON JOB PER
OJ216	HRLY WAGE RATE
OJ225	AMOUNT PAID FOR OVERTIME
OJ226	AMOUNT PAID FOR OVERTIME PER
OJ230	AMOUNT PAID- OTHER
OJ231	AMOUNT PAID- OTHER- PER
OJ553	ANY OTR PAID WORK
OJ556	HRS/WK ON 2ND JOB
OJ557	WKS/YR ON 2ND JOB
OJ558	EARNINGS ON SECOND JOB
OJ562	EARNINGS ON SECOND JOB - PER

OJ596	WORK BEFORE CURRENT EMPLOYMENT
OJ599	HRS/WK-WORKED BEFORE CURRENT EMPLOYMENT
OJ600	EARNINGS-WORK BEFORE CURRENT EMPLOYMENT
OJ604	EARNINGS WORK BEFORE CURRENT EMP - PER
OK003	WORK FOR PAY MORE THAN FEW MOS
OK004	LAST WORKED WHEN-YR
OK005	LAST WORKED WHEN-YRS AGO
OK011	HRS WRK PR WK
OK014	WKS WRK PR YR
OK016	EARNINGS WHEN LEFT- PER
OL005	OTR EMPLOYER 5+ YRS
OL016	LEFT EMPLOYER-YR
OL017	LEFT EMPLOYER-YRS AGO
OL018	LEFT EMPLOYER- AT AGE
OL020	HRS WORKED PR WK
OL021	WKS WORKED PR YR
OL022	EARNING IN LAST YR
OL023	EARNING IN LAST YR- PER



<b>Current job requires lots of physical effort</b>
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Wave	Variable	Label	Type
1	R1JPHYS	R1JPHYS:W1 Cur job req lots phys effort	Categ
2	R2JPHYS	R2JPHYS:W2 Cur job req lots phys effort	Categ
3	R3JPHYS	R3JPHYS:W3 Cur job req lots phys effort	Categ
4	R4JPHYS	R4JPHYS:W4 Cur job req lots phys effort	Categ
5	R5JPHYS	R5JPHYS:W5 Cur job req lots phys effort	Categ
6	R6JPHYS	R6JPHYS:W6 Cur job req lots phys effort	Categ
7	R7JPHYS	R7JPHYS:W7 Cur job req lots phys effort	Categ
8	R8JPHYS	R8JPHYS:W8 Cur job req lots phys effort	Categ
9	R9JPHYS	R9JPHYS:W9 Cur job req lots phys effort	Categ
10	R10JPHYS	R10JPHYS:W10 Cur job req lots phys effort	Categ
11	R11JPHYS	R11JPHYS:W11 Cur job req lots phys effort	Categ
12	R12JPHYS	R12JPHYS:W12 Cur job req lots phys effort	Categ
1	S1JPHYS	S1JPHYS:W1 Cur job req lots phys effort	Categ
2	S2JPHYS	S2JPHYS:W2 Cur job req lots phys effort	Categ
3	S3JPHYS	S3JPHYS:W3 Cur job req lots phys effort	Categ
4	S4JPHYS	S4JPHYS:W4 Cur job req lots phys effort	Categ
5	S5JPHYS	S5JPHYS:W5 Cur job req lots phys effort	Categ
6	S6JPHYS	S6JPHYS:W6 Cur job req lots phys effort	Categ
7	S7JPHYS	S7JPHYS:W7 Cur job req lots phys effort	Categ
8	S8JPHYS	S8JPHYS:W8 Cur job req lots phys effort	Categ
9	S9JPHYS	S9JPHYS:W9 Cur job req lots phys effort	Categ
10	S10JPHYS	S10JPHYS:W10 Cur job req lots phys effort	Categ
11	S11JPHYS	S11JPHYS:W11 Cur job req lots phys effort	Categ
12	S12JPHYS	S12JPHYS:W12 Cur job req lots phys effort	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JPHYS	8316	2.69	1.13	1.0	4.0
R2JPHYS	6981	2.72	1.12	1.0	4.0
R3JPHYS	6469	2.77	1.11	1.0	4.0
R4JPHYS	7913	2.82	1.11	1.0	4.0
R5JPHYS	6847	2.86	1.11	1.0	4.0
R6JPHYS	5832	2.87	1.11	1.0	4.0
R7JPHYS	7423	2.82	1.13	1.0	4.0
R8JPHYS	6304	2.83	1.12	1.0	4.0
R9JPHYS	5670	2.87	1.13	1.0	5.0
R10JPHYS	8556	2.73	1.14	1.0	5.0
R11JPHYS	7667	2.75	1.14	1.0	5.0
R12JPHYS	6620	2.77	1.12	1.0	5.0
S1JPHYS	6561	2.71	1.13	1.0	4.0
S2JPHYS	5446	2.74	1.12	1.0	4.0
S3JPHYS	4919	2.78	1.11	1.0	4.0
S4JPHYS	5829	2.84	1.10	1.0	4.0
S5JPHYS	5071	2.87	1.11	1.0	4.0
S6JPHYS	4291	2.88	1.11	1.0	4.0
S7JPHYS	5383	2.83	1.13	1.0	4.0
S8JPHYS	4567	2.84	1.12	1.0	4.0
S9JPHYS	4074	2.89	1.12	1.0	5.0
S10JPHYS	5859	2.76	1.13	1.0	5.0
S11JPHYS	5267	2.76	1.13	1.0	5.0
S12JPHYS	4476	2.79	1.12	1.0	5.0

## Categorical Variable Codes

Value	R1JPHYS	R2JPHYS	R3JPHYS	R4JPHYS	R5JPHYS	R6JPHYS	R7JPHYS
.D=DK/NA	3	4	5	3	3	3	2
.M=Oth missing	14	25	125	171	129	32	113
.P=No info prior wv (proxy/			170	91	50	6	3
.Q=Not asked this/prv wv		8222					
.R=RF	51	8	10	13	9	6	5
.S=Skip,proxy IW		43	91	250	202	204	318
.W=Skip,not working	4268	4359	11121	12943	12339	12082	12265
1.All/almost all the time	1811	1453	1255	1492	1227	1085	1501
2.Most of the time	1580	1312	1161	1268	1044	794	1026
3.Some of the time	2337	1974	1871	2315	2010	1753	2213
4.None/almost none of time	2588	2242	2182	2838	2566	2200	2683

Value	R8JPHYS	R9JPHYS	R10JPHYS	R11JPHYS	R12JPHYS
.D=DK/NA	1	2	1	5	7
.M=Oth missing	176	106	343	225	203
.P=No info prior wv (proxy/		1	1		
.R=RF		5	2	1	2
.S=Skip,proxy IW	174	112	161	111	90
.W=Skip,not working	11814	11321	12970	12545	11825
1.All/almost all the time	1223	1036	1874	1607	1308
2.Most of the time	891	829	1366	1288	1183
3.Some of the time	1919	1747	2548	2248	1912
4.None/almost none of time	2271	1970	2720	2478	2190
5.Does not apply		88	48	46	27

Value	S1JPHYS	S2JPHYS	S3JPHYS	S4JPHYS	S5JPHYS	S6JPHYS	S7JPHYS
.D=DK/NA	2	3	4	3	2	1	1
.M=Oth missing	5	11	54	106	86	17	67
.P=No info prior wv (proxy/			115	64	33	6	3
.Q=Not asked this/prv wv		4549					
.R=RF	32	7	8	8	4	6	4
.S=Skip,proxy IW		38	88	237	193	194	312
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Skip,not working	3300	3234	6727	7731	7341	7124	7202
1.All/almost all the time	1386	1088	931	1053	901	783	1063
2.Most of the time	1239	1020	877	937	770	585	747
3.Some of the time	1849	1562	1456	1725	1483	1300	1601
4.None/almost none of time	2087	1776	1655	2114	1917	1623	1972

Value	S8JPHYS	S9JPHYS	S10JPHYS	S11JPHYS	S12JPHYS
.D=DK/NA		1	1	4	3
.M=Oth missing	139	67	210	134	121
.P=No info prior wv (proxy/		1	1		
.R=RF		2	1		1
.S=Skip,proxy IW	170	108	155	108	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
1.All/almost all the time	873	713	1230	1063	852
2.Most of the time	650	596	918	891	780
3.Some of the time	1378	1252	1790	1566	1306
4.None/almost none of time	1666	1451	1888	1718	1525
5.Does not apply		62	33	29	13

## How Constructed

RwJPHYS indicates the extent to which the Respondent says her/his job requires lots of physical effort.

RwJPHYS simply recodes missing values to SAS missing codes. If the question is skipped because the Respondent is not working, it is set to .W for not working. With the exclusion of Wave 6, the question is usually skipped if the Respondent is working at the same job. If skipped, and the Respondent reported working at the prior interview, then the prior interview value is used.

In Wave 2A, there was no question about physical effort at a job. So for the AHEAD Respondents, R2JPHYS is set to the .Q SAS special missing value, to indicate that no information is available.

Note that this question is not asked in any proxy interviews, but in many of these cases the prior interview report is used. Proxies for which this variable remains missing are set to .S.

If the value from a prior interview is used but is missing because the question wasn't asked or the interview was by proxy, then the current wave variable is set to .P, information from prior interview is missing.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJPHYS.

## Cross Wave Differences in Original HRS Data

Each wave working Respondents are asked a number of questions about the job's characteristics. The question wording is the same across waves and asks:

"I'll read some statements that are true for some people's jobs but not for other people's jobs. Thinking of your job, please tell how often these statements are true.

My job requires lots of physical effort.

Is this true all or almost all of the time, most of the time, some of the time, or none or almost none of the time?"

In Wave 2A this question was not asked.

In Wave 3A the question is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not.

In Wave 2H and from Wave 3 forward, if the Respondent is working for the same employer and has the same job title as in the previous interview, this question is skipped.

If the interview is by proxy this question is skipped and coded as .S. If no information was available from a prior interview because it was a proxy or W2a, it will be coded as .P.

From Wave 9, a category with value 5 was added to represent "Does Not Apply."

**HRS Variables Used**

HRS 1992:	
V3301	F82A:JB RQR PHYSICL EFRT
HRS 1994:	
W3943	FA115a.PHYSICAL EFFORT
W4601	FB75a.JOB REQUIRES PHYSI
AHEAD 1995:	
D3091	GA115A. PHYSICAL EFFORT
D3455	GB75A. PHYSICAL EFFORT
HRS 1996:	
E3004	G126A.PHYSICAL EFFORT
HRS 1998:	
F3533	G126A.PHYSICAL EFFORT
HRS 2000:	
G3821	G126A.PHYSICAL EFFORT
HRS 2002:	
HJ538	PHYSICAL EFFORT
HRS 2004:	
JJ538	PHYSICAL EFFORT
HRS 2006:	
KJ538	PHYSICAL EFFORT
HRS 2008:	
LJ538	PHYSICAL EFFORT
HRS 2010:	
MJ538	PHYSICAL EFFORT
HRS 2012:	
NJ538	PHYSICAL EFFORT
HRS 2014:	
OJ538	PHYSICAL EFFORT

**Current job requires lifting heavy loads**

Wave	Variable	Label	Type
1	R1JLIFT	R1JLIFT:W1 Cur job req lift heavy loads	Categ
2	R2JLIFT	R2JLIFT:W2 Cur job req lift heavy loads	Categ
3	R3JLIFT	R3JLIFT:W3 Cur job req lift heavy loads	Categ
4	R4JLIFT	R4JLIFT:W4 Cur job req lift heavy loads	Categ
5	R5JLIFT	R5JLIFT:W5 Cur job req lift heavy loads	Categ
6	R6JLIFT	R6JLIFT:W6 Cur job req lift heavy loads	Categ
7	R7JLIFT	R7JLIFT:W7 Cur job req lift heavy loads	Categ
8	R8JLIFT	R8JLIFT:W8 Cur job req lift heavy loads	Categ
9	R9JLIFT	R9JLIFT:W9 Cur job req lift heavy loads	Categ
10	R10JLIFT	R10JLIFT:W10 Cur job req lift heavy loads	Categ
11	R11JLIFT	R11JLIFT:W11 Cur job req lift heavy loads	Categ
12	R12JLIFT	R12JLIFT:W12 Cur job req lift heavy loads	Categ
1	S1JLIFT	S1JLIFT:W1 Cur job req lift heavy loads	Categ
2	S2JLIFT	S2JLIFT:W2 Cur job req lift heavy loads	Categ
3	S3JLIFT	S3JLIFT:W3 Cur job req lift heavy loads	Categ
4	S4JLIFT	S4JLIFT:W4 Cur job req lift heavy loads	Categ
5	S5JLIFT	S5JLIFT:W5 Cur job req lift heavy loads	Categ
6	S6JLIFT	S6JLIFT:W6 Cur job req lift heavy loads	Categ
7	S7JLIFT	S7JLIFT:W7 Cur job req lift heavy loads	Categ
8	S8JLIFT	S8JLIFT:W8 Cur job req lift heavy loads	Categ
9	S9JLIFT	S9JLIFT:W9 Cur job req lift heavy loads	Categ
10	S10JLIFT	S10JLIFT:W10 Cur job req lift heavy loads	Categ
11	S11JLIFT	S11JLIFT:W11 Cur job req lift heavy loads	Categ
12	S12JLIFT	S12JLIFT:W12 Cur job req lift heavy loads	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLIFT	8321	3.28	0.96	1.0	4.0
R2JLIFT	6983	3.32	0.93	1.0	4.0
R3JLIFT	6469	3.38	0.89	1.0	4.0
R4JLIFT	7914	3.38	0.90	1.0	4.0
R5JLIFT	6850	3.42	0.87	1.0	4.0
R6JLIFT	5831	3.42	0.91	1.0	4.0
R7JLIFT	7423	3.37	0.94	1.0	4.0
R8JLIFT	6305	3.38	0.93	1.0	4.0
R9JLIFT	5671	3.42	0.97	1.0	5.0
R10JLIFT	8555	3.32	0.99	1.0	5.0
R11JLIFT	7670	3.34	0.98	1.0	5.0
R12JLIFT	6624	3.35	0.95	1.0	5.0
S1JLIFT	6566	3.28	0.95	1.0	4.0
S2JLIFT	5448	3.32	0.92	1.0	4.0
S3JLIFT	4918	3.36	0.89	1.0	4.0
S4JLIFT	5830	3.37	0.91	1.0	4.0
S5JLIFT	5073	3.40	0.88	1.0	4.0
S6JLIFT	4291	3.41	0.90	1.0	4.0
S7JLIFT	5383	3.36	0.94	1.0	4.0
S8JLIFT	4567	3.36	0.94	1.0	4.0
S9JLIFT	4074	3.42	0.95	1.0	5.0
S10JLIFT	5859	3.31	0.98	1.0	5.0
S11JLIFT	5270	3.32	0.98	1.0	5.0
S12JLIFT	4477	3.34	0.96	1.0	5.0

## Categorical Variable Codes

Value	R1JLIFT	R2JLIFT	R3JLIFT	R4JLIFT	R5JLIFT	R6JLIFT	R7JLIFT
.D=DK/NA	1	2	5	3	1	3	2
.M=Oth missing	14	25	125	171	129	32	113
.P=No info prior wv (proxy/			170	91	50	6	3
.Q=Not asked this/prv wv		8222					
.R=RF	48	8	10	12	8	7	5
.S=Skip,proxy IW		43	91	250	202	204	318
.W=Skip,not working	4268	4359	11121	12943	12339	12082	12265
1.All/almost all the time	777	576	458	599	463	452	668
2.Most of the time	663	515	440	496	397	323	436
3.Some of the time	2347	1960	1773	2082	1791	1386	1792
4.None/almost none of time	4534	3932	3798	4737	4199	3670	4527

Value	R8JLIFT	R9JLIFT	R10JLIFT	R11JLIFT	R12JLIFT
.D=DK/NA		1	3	2	4
.M=Oth missing	176	106	343	225	203
.P=No info prior wv (proxy/		1	1		
.R=RF		5	1	1	1
.S=Skip,proxy IW	174	112	161	111	90
.W=Skip,not working	11814	11321	12970	12545	11825
1.All/almost all the time	523	455	826	715	558
2.Most of the time	397	350	585	501	463
3.Some of the time	1556	1439	2377	2106	1802
4.None/almost none of time	3829	3193	4578	4170	3678
5.Does not apply		234	189	178	123

Value	S1JLIFT	S2JLIFT	S3JLIFT	S4JLIFT	S5JLIFT	S6JLIFT	S7JLIFT
.D=DK/NA	1	2	5	2		1	1
.M=Oth missing	5	11	54	106	86	17	67
.P=No info prior wv (proxy/			115	64	33	6	3
.Q=Not asked this/prv wv		4549					
.R=RF	28	6	8	8	4	6	4
.S=Skip,proxy IW		38	88	237	193	194	312
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Skip,not working	3300	3234	6727	7731	7341	7124	7202
1.All/almost all the time	595	428	351	443	354	331	482
2.Most of the time	530	417	344	387	313	240	322
3.Some of the time	1902	1571	1386	1551	1341	1057	1341
4.None/almost none of time	3539	3032	2837	3449	3065	2663	3238

Value	S8JLIFT	S9JLIFT	S10JLIFT	S11JLIFT	S12JLIFT
.D=DK/NA		1	1	1	2
.M=Oth missing	139	67	210	134	121
.P=No info prior wv (proxy/		1	1		
.R=RF		2	1		1
.S=Skip,proxy IW	170	108	155	108	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
1.All/almost all the time	388	315	567	507	383
2.Most of the time	309	254	402	352	322
3.Some of the time	1140	1048	1649	1437	1217
4.None/almost none of time	2730	2312	3137	2880	2486
5.Does not apply		145	104	94	69

## How Constructed

RwJLIFT indicates the extent to which the Respondent says her/his job requires lifting heavy loads.

RwJLIFT simply recodes missing values to SAS missing codes. If the question is skipped because the Respondent is not working, it is set to .W for not working. With the exclusion of Wave 6, the question is usually skipped if the Respondent is working at the same job. If skipped, and the Respondent reported working at the prior interview, then the prior interview value is used.

In Wave 2A, there was no question about lifting heavy loads at a job. So for the AHEAD Respondents, R2JLIFT is set to the .Q SAS special missing value, to indicate that no information is available.

Note that this question is not asked in any proxy interviews, but in many of these cases the prior interview report is used. Proxies for which this variable remains missing are set to .S.

If the value from a prior interview is used but is missing because the question wasn't asked or the interview was by proxy, then the current wave variable is set to .P, information from prior interview is missing.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJLIFT.

## Cross Wave Differences in Original HRS Data

Each wave working Respondents are asked a number of questions about the job's characteristics. The question wording is the same across waves and asks:

"I'll read some statements that are true for some people's jobs but not for other people's jobs. Thinking of your job, please tell how often these statements are true.

My job requires lifting heavy loads.

Is this true all or almost all of the time, most of the time, some of the time, or none or almost none of the time?"

In Wave 2A this question was not asked.

In Wave 3A the question is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not.

In Wave 2H and from Wave 3 forward, if the Respondent is working for the same employer and has the same job title as in the previous interview, this question is skipped.

If the interview is by proxy this question is skipped and coded as .S. If no information was available from a prior interview because it was a proxy or W2A, it will be coded as .P.

From Wave 9, a category with value 5 was added to represent "Does Not Apply."

**HRS Variables Used**

HRS 1992:	
V3302	F82B:JB LFTING HVY LDS
HRS 1994:	
W3944	FA115b.LIFTING HEAVY LOA
W4602	FB75b.JOB REQUIRES LIFTI
AHEAD 1995:	
D3092	GA115B. LIFTING HEAVY LOADS
D3456	GB75B. LIFTING HEAVY LOADS
HRS 1996:	
E3005	G126B.LIFTING HEAVY LOADS
HRS 1998:	
F3534	G126B.LIFTING HEAVY LOADS
HRS 2000:	
G3822	G126B.LIFTING HEAVY LOADS
HRS 2002:	
HJ539	LIFTING HEAVY LOADS
HRS 2004:	
JJ539	LIFTING HEAVY LOADS
HRS 2006:	
KJ539	LIFTING HEAVY LOADS
HRS 2008:	
LJ539	LIFTING HEAVY LOADS
HRS 2010:	
MJ539	LIFTING HEAVY LOADS
HRS 2012:	
NJ539	LIFTING HEAVY LOADS
HRS 2014:	
OJ539	LIFTING HEAVY LOADS



**Current job requires stooping, kneeling, or crouching**

Wave	Variable	Label	Type
1	R1JSTOOP	R1JSTOOP:W1 Cur job req stoop/kneel/crouch	Categ
2	R2JSTOOP	R2JSTOOP:W2 Cur job req stoop/kneel/crouch	Categ
3	R3JSTOOP	R3JSTOOP:W3 Cur job req stoop/kneel/crouch	Categ
4	R4JSTOOP	R4JSTOOP:W4 Cur job req stoop/kneel/crouch	Categ
5	R5JSTOOP	R5JSTOOP:W5 Cur job req stoop/kneel/crouch	Categ
6	R6JSTOOP	R6JSTOOP:W6 Cur job req stoop/kneel/crouch	Categ
7	R7JSTOOP	R7JSTOOP:W7 Cur job req stoop/kneel/crouch	Categ
8	R8JSTOOP	R8JSTOOP:W8 Cur job req stoop/kneel/crouch	Categ
9	R9JSTOOP	R9JSTOOP:W9 Cur job req stoop/kneel/crouch	Categ
10	R10JSTOOP	R10JSTOOP:W10 Cur job req stoop/kneel/crouch	Categ
11	R11JSTOOP	R11JSTOOP:W11 Cur job req stoop/kneel/crouch	Categ
12	R12JSTOOP	R12JSTOOP:W12 Cur job req stoop/kneel/crouch	Categ
1	S1JSTOOP	S1JSTOOP:W1 Cur job req stoop/kneel/crouch	Categ
2	S2JSTOOP	S2JSTOOP:W2 Cur job req stoop/kneel/crouch	Categ
3	S3JSTOOP	S3JSTOOP:W3 Cur job req stoop/kneel/crouch	Categ
4	S4JSTOOP	S4JSTOOP:W4 Cur job req stoop/kneel/crouch	Categ
5	S5JSTOOP	S5JSTOOP:W5 Cur job req stoop/kneel/crouch	Categ
6	S6JSTOOP	S6JSTOOP:W6 Cur job req stoop/kneel/crouch	Categ
7	S7JSTOOP	S7JSTOOP:W7 Cur job req stoop/kneel/crouch	Categ
8	S8JSTOOP	S8JSTOOP:W8 Cur job req stoop/kneel/crouch	Categ
9	S9JSTOOP	S9JSTOOP:W9 Cur job req stoop/kneel/crouch	Categ
10	S10JSTOOP	S10JSTOOP:W10 Cur job req stoop/kneel/crouch	Categ
11	S11JSTOOP	S11JSTOOP:W11 Cur job req stoop/kneel/crouch	Categ
12	S12JSTOOP	S12JSTOOP:W12 Cur job req stoop/kneel/crouch	Categ

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JSTOOP	8316	2.93	1.01	1.0	4.0
R2JSTOOP	6979	2.98	1.02	1.0	4.0
R3JSTOOP	6468	3.01	1.01	1.0	4.0
R4JSTOOP	7914	3.02	1.03	1.0	4.0
R5JSTOOP	6847	3.06	1.02	1.0	4.0
R6JSTOOP	5833	3.03	1.05	1.0	4.0
R7JSTOOP	7423	2.97	1.08	1.0	4.0
R8JSTOOP	6300	2.97	1.08	1.0	4.0
R9JSTOOP	5670	3.03	1.10	1.0	5.0
R10JSTOOP	8553	2.91	1.12	1.0	5.0
R11JSTOOP	7665	2.92	1.11	1.0	5.0
R12JSTOOP	6623	2.93	1.10	1.0	5.0
S1JSTOOP	6563	2.94	1.01	1.0	4.0
S2JSTOOP	5446	2.98	1.01	1.0	4.0
S3JSTOOP	4919	3.00	1.01	1.0	4.0
S4JSTOOP	5830	3.01	1.03	1.0	4.0
S5JSTOOP	5071	3.04	1.03	1.0	4.0
S6JSTOOP	4291	3.02	1.06	1.0	4.0
S7JSTOOP	5383	2.96	1.09	1.0	4.0
S8JSTOOP	4564	2.96	1.08	1.0	4.0
S9JSTOOP	4073	3.03	1.10	1.0	5.0
S10JSTOOP	5858	2.91	1.12	1.0	5.0
S11JSTOOP	5265	2.91	1.10	1.0	5.0
S12JSTOOP	4475	2.93	1.10	1.0	5.0

## Categorical Variable Codes

Value	R1JSTOOP	R2JSTOOP	R3JSTOOP	R4JSTOOP	R5JSTOOP	R6JSTOOP	R7JSTOOP
.D=DK/NA	2	3	4	2	1	2	2
.M=Oth missing	14	25	125	171	129	32	113
.P=No info prior wv (proxy/			170	91	50	6	3
.Q=Not asked this/prv wv		8222					
.R=RF	52	11	12	13	11	6	5
.S=Skip,proxy IW		43	91	250	202	204	318
.W=Skip,not working	4268	4359	11121	12943	12339	12082	12265
1.All/almost all the time	1153	933	826	1070	888	855	1232
2.Most of the time	1110	883	771	889	713	571	751
3.Some of the time	3194	2575	2352	2761	2372	1929	2415
4.None/almost none of time	2859	2588	2519	3194	2874	2478	3025

Value	R8JSTOOP	R9JSTOOP	R10JSTOOP	R11JSTOOP	R12JSTOOP
.D=DK/NA	5	2	5	7	5
.M=Oth missing	176	106	343	225	203
.P=No info prior wv (proxy/		1	1		
.R=RF		5	1	1	1
.S=Skip,proxy IW	174	112	161	111	90
.W=Skip,not working	11814	11321	12970	12545	11825
1.All/almost all the time	1021	864	1591	1357	1131
2.Most of the time	666	612	940	846	761
3.Some of the time	2067	1852	2779	2587	2206
4.None/almost none of time	2546	2174	3129	2776	2458
5.Does not apply		168	114	99	67

Value	S1JSTOOP	S2JSTOOP	S3JSTOOP	S4JSTOOP	S5JSTOOP	S6JSTOOP	S7JSTOOP
.D=DK/NA	2	3	3	2		1	1
.M=Oth missing	5	11	54	106	86	17	67
.P=No info prior wv (proxy/			115	64	33	6	3
.Q=Not asked this/prv wv		4549					
.R=RF	30	7	9	8	6	6	4
.S=Skip,proxy IW		38	88	237	193	194	312
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Skip,not working	3300	3234	6727	7731	7341	7124	7202
1.All/almost all the time	907	703	636	800	673	636	902
2.Most of the time	872	706	596	662	542	443	574
3.Some of the time	2524	2017	1812	2043	1753	1412	1742
4.None/almost none of time	2260	2020	1875	2325	2103	1800	2165

Value	S8JSTOOP	S9JSTOOP	S10JSTOOP	S11JSTOOP	S12JSTOOP
.D=DK/NA	3	2	2	6	4
.M=Oth missing	139	67	210	134	121
.P=No info prior wv (proxy/		1	1		
.R=RF		2	1		1
.S=Skip,proxy IW	170	108	155	108	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
1.All/almost all the time	750	614	1078	922	757
2.Most of the time	502	444	662	621	548
3.Some of the time	1491	1329	1899	1774	1472
4.None/almost none of time	1821	1573	2147	1886	1657
5.Does not apply		113	72	62	41

## How Constructed

RwJSTOOP indicates the extent to which the Respondent says her/his job requires stooping, kneeling, or crouching.

RwJSTOOP simply recodes missing values to SAS missing codes. If the question is skipped because the Respondent is not working, it is set to .W for not working. With the exclusion of Wave 6, the question is usually skipped if the Respondent is working at the same job. If skipped, and the Respondent reported working at the prior interview, then the prior interview value is used.

In Wave 2A, there was no question about stooping, kneeling, or crouching at a job. So for the AHEAD Respondents, R2JSTOOP is set to the .Q SAS special missing value, to indicate that no information is available.

Note that this question is not asked in any proxy interviews, but in many of these cases the prior interview report is used. Proxies for which this variable remains missing are set to .S.

If the value from a prior interview is used but is missing because the question wasn't asked or the interview was by proxy, then the current wave variable is set to .P, information from prior interview is missing.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJSTOOP.

## Cross Wave Differences in Original HRS Data

Each wave working Respondents are asked a number of questions about the job's characteristics. The question wording is the same across waves and asks:

"I'll read some statements that are true for some people's jobs but not for other people's jobs. Thinking of your job, please tell how often these statements are true.

My job requires stooping, kneeling, or crouching.

Is this true all or almost all of the time, most of the time, some of the time, or none or almost none of the time?"

In Wave 2A this question was not asked.

In Wave 3A the question is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not.

In Wave 2H and from Wave 3 forward, if the Respondent is working for the same employer and has the same job title as in the previous interview, this question is skipped.

If the interview is by proxy this question is skipped and coded as .S. If no information was available from a prior interview because it was a proxy or W2A, it will be coded as .P.

From Wave 9, a category with value 5 was added to represent "Does Not Apply."

**HRS Variables Used**

HRS 1992:	
V3303	F82C:JB RQR STP/KNG/CRNG
HRS 1994:	
W3945	FA115c.STOOPING/KNEELING
W4603	FB75c.JOB REQUIRES STOOP
AHEAD 1995:	
D3093	GA115C. STOOPING, KNEELING, ETC.
D3457	GB75C. STOOPING, KNEELING, ETC.
HRS 1996:	
E3006	G126C.STOOPING/KNEELING/CROUCHING
HRS 1998:	
F3535	G126C.STOOPING/KNEELING/CROUCHING
HRS 2000:	
G3823	G126C.STOOPING/KNEELING/CROUCHING
HRS 2002:	
HJ540	STOOPING/KNEELING/CROUCHING
HRS 2004:	
JJ540	STOOPING/KNEELING/CROUCHING
HRS 2006:	
KJ540	STOOPING/KNEELING/CROUCHING
HRS 2008:	
LJ540	STOOPING/KNEELING/CROUCHING
HRS 2010:	
MJ540	STOOPING/KNEELING/CROUCHING
HRS 2012:	
NJ540	STOOPING/KNEELING/CROUCHING
HRS 2014:	
OJ540	STOOPING/KNEELING/CROUCHING

<b>Current job requires good eyesight</b>
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Wave	Variable	Label	Type
1	R1JSIGHT	R1JSIGHT:W1 Cur job req good eyesight	Categ
2	R2JSIGHT	R2JSIGHT:W2 Cur job req good eyesight	Categ
3	R3JSIGHT	R3JSIGHT:W3 Cur job req good eyesight	Categ
4	R4JSIGHT	R4JSIGHT:W4 Cur job req good eyesight	Categ
5	R5JSIGHT	R5JSIGHT:W5 Cur job req good eyesight	Categ
6	R6JSIGHT	R6JSIGHT:W6 Cur job req good eyesight	Categ
7	R7JSIGHT	R7JSIGHT:W7 Cur job req good eyesight	Categ
8	R8JSIGHT	R8JSIGHT:W8 Cur job req good eyesight	Categ
9	R9JSIGHT	R9JSIGHT:W9 Cur job req good eyesight	Categ
10	R10JSIGHT	R10JSIGHT:W10 Cur job req good eyesight	Categ
11	R11JSIGHT	R11JSIGHT:W11 Cur job req good eyesight	Categ
12	R12JSIGHT	R12JSIGHT:W12 Cur job req good eyesight	Categ
1	S1JSIGHT	S1JSIGHT:W1 Cur job req good eyesight	Categ
2	S2JSIGHT	S2JSIGHT:W2 Cur job req good eyesight	Categ
3	S3JSIGHT	S3JSIGHT:W3 Cur job req good eyesight	Categ
4	S4JSIGHT	S4JSIGHT:W4 Cur job req good eyesight	Categ
5	S5JSIGHT	S5JSIGHT:W5 Cur job req good eyesight	Categ
6	S6JSIGHT	S6JSIGHT:W6 Cur job req good eyesight	Categ
7	S7JSIGHT	S7JSIGHT:W7 Cur job req good eyesight	Categ
8	S8JSIGHT	S8JSIGHT:W8 Cur job req good eyesight	Categ
9	S9JSIGHT	S9JSIGHT:W9 Cur job req good eyesight	Categ
10	S10JSIGHT	S10JSIGHT:W10 Cur job req good eyesight	Categ
11	S11JSIGHT	S11JSIGHT:W11 Cur job req good eyesight	Categ
12	S12JSIGHT	S12JSIGHT:W12 Cur job req good eyesight	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JSIGHT	8307	1.61	0.78	1.0	4.0
R2JSIGHT	7719	1.62	0.78	1.0	4.0
R3JSIGHT	6627	1.56	0.79	1.0	4.0
R4JSIGHT	7999	1.53	0.80	1.0	4.0
R5JSIGHT	6895	1.52	0.80	1.0	4.0
R6JSIGHT	5833	1.47	0.79	1.0	4.0
R7JSIGHT	7422	1.49	0.80	1.0	4.0
R8JSIGHT	6302	1.46	0.78	1.0	4.0
R9JSIGHT	5671	1.47	0.81	1.0	5.0
R10JSIGHT	8557	1.49	0.81	1.0	5.0
R11JSIGHT	7666	1.49	0.81	1.0	5.0
R12JSIGHT	6620	1.49	0.80	1.0	5.0
S1JSIGHT	6557	1.61	0.77	1.0	4.0
S2JSIGHT	5937	1.62	0.77	1.0	4.0
S3JSIGHT	5023	1.56	0.78	1.0	4.0
S4JSIGHT	5889	1.53	0.79	1.0	4.0
S5JSIGHT	5103	1.51	0.79	1.0	4.0
S6JSIGHT	4292	1.46	0.78	1.0	4.0
S7JSIGHT	5383	1.48	0.79	1.0	4.0
S8JSIGHT	4565	1.46	0.78	1.0	4.0
S9JSIGHT	4074	1.47	0.81	1.0	5.0
S10JSIGHT	5861	1.48	0.81	1.0	5.0
S11JSIGHT	5267	1.48	0.81	1.0	5.0
S12JSIGHT	4475	1.50	0.81	1.0	5.0

## Categorical Variable Codes

Value	R1JSIGHT	R2JSIGHT	R3JSIGHT	R4JSIGHT	R5JSIGHT	R6JSIGHT	R7JSIGHT
.D=DK/NA	2	2	3	3	2	3	2
.M=Oth missing	14	74	138	178	131	35	115
.R=RF	61	15	11	11	10	8	7
.S=Skip,proxy IW		43	91	250	202	204	318
.W=Skip,not working	4268	11789	11121	12943	12339	12082	12265
1.All/almost all the time	4498	4112	3898	5008	4419	3942	4958
2.Most of the time	2865	2722	1958	2048	1659	1257	1607
3.Some of the time	658	625	539	637	551	400	548
4.None/almost none of time	286	260	232	306	266	234	309

Value	R8JSIGHT	R9JSIGHT	R10JSIGHT	R11JSIGHT	R12JSIGHT
.D=DK/NA	1	1	2	5	8
.M=Oth missing	176	106	343	225	203
.R=RF	2	6	1	2	1
.S=Skip,proxy IW	174	112	161	111	90
.W=Skip,not working	11814	11321	12970	12545	11825
1.All/almost all the time	4307	3892	5774	5154	4387
2.Most of the time	1315	1137	1754	1623	1455
3.Some of the time	459	424	701	591	526
4.None/almost none of time	221	195	303	278	243
5.Does not apply		23	25	20	9

Value	S1JSIGHT	S2JSIGHT	S3JSIGHT	S4JSIGHT	S5JSIGHT	S6JSIGHT	S7JSIGHT
.D=DK/NA	2	2	3	2		1	
.M=Oth missing	5	43	64	113	88	20	69
.R=RF	36	11	10	6	5	8	6
.S=Skip,proxy IW		38	88	237	193	194	312
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.W=Skip,not working	3300	7057	6727	7731	7341	7124	7202
1.All/almost all the time	3520	3152	2965	3684	3284	2906	3590
2.Most of the time	2307	2109	1483	1519	1238	938	1191
3.Some of the time	506	478	412	468	393	287	395
4.None/almost none of time	224	198	163	218	188	161	207

Value	S8JSIGHT	S9JSIGHT	S10JSIGHT	S11JSIGHT	S12JSIGHT
.D=DK/NA	1	1		4	4
.M=Oth missing	139	67	210	134	121
.R=RF	1	3	1		1
.S=Skip,proxy IW	170	108	155	108	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
1.All/almost all the time	3117	2776	3966	3547	2956
2.Most of the time	965	837	1207	1117	988
3.Some of the time	321	305	465	398	362
4.None/almost none of time	162	139	206	190	161
5.Does not apply		17	17	15	8

## How Constructed

RwJSIGHT indicates the extent to which the Respondent says her/his job requires good eyesight.

RwJSIGHT simply recodes missing values to SAS missing codes. If the question is skipped because the Respondent is not working, it is set to .W for not working. With the exclusion of Wave 6, the question is usually skipped if the Respondent is working at the same job. If skipped, and the Respondent reported working at the prior interview, then the

prior interview value is used.

Note that this question is not asked in any proxy interviews, but in many of these cases the prior interview report is used. Proxies for which this variable remains missing are set to .S.

If the value from a prior interview is used but is missing because the question wasn't asked or the interview was by proxy then the current wave variable is set to .P, information from prior interview is missing.

In Wave 2A, there are only three levels of response as opposed to the four in other waves. The response categories are set to correspond to those with the same wording in other waves. The omitted level in Wave 2A is "All or almost all of the time."

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RJSIGHT.

### Cross Wave Differences in Original HRS Data

Each wave working Respondents are asked a number of questions about the job's characteristics. The question wording is the same across waves and asks:

"I'll read some statements that are true for some people's jobs but not for other people's jobs. Thinking of your job, please tell how often these statements are true.

My job requires good eyesight.

Is this true all or almost all of the time, most of the time, some of the time, or none or almost none of the time?"

In Wave 2A, the second part of the question was slightly different:

"Is this true most of the time, some of the time, or hardly ever?"

So for AHEAD Respondents, RJSIGHT has no code one ("All or almost all of the time").

In Wave 3A the question is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not.

In Wave 2H and from Wave 3 forward, if the Respondent is working for the same employer and has the same job title as in the previous interview, this question is skipped.

If the interview is by proxy this question is skipped and coded as .S. If no information was available from a prior interview because it was a proxy or W2a, it will be coded as .P.

From Wave 9, a category with value 5 was added to represent "Does Not Apply".

### HRS Variables Used

HRS 1992:	
V3304	F82D:JB RQR GOOD EYESGHT
AHEAD 1993:	
B1191	G9. CURR WORK: REQ GOOD EYESIGHT

HRS 1994:	
W3946	FA115d.GOOD EYESIGHT
W4604	FB75d.JOB REQUIRES GOOD
AHEAD 1995:	
D3094	GA115D. GOOD EYESIGHT
D3458	GB75D. GOOD EYESIGHT
HRS 1996:	
E3007	G126D.GOOD EYESIGHT
HRS 1998:	
F3536	G126D.GOOD EYESIGHT
HRS 2000:	
G3824	G126D.GOOD EYESIGHT
HRS 2002:	
HJ541	GOOD EYESIGHT
HRS 2004:	
JJ541	GOOD EYESIGHT
HRS 2006:	
KJ541	GOOD EYESIGHT
HRS 2008:	
LJ541	GOOD EYESIGHT
HRS 2010:	
MJ541	GOOD EYESIGHT
HRS 2012:	
NJ541	GOOD EYESIGHT
HRS 2014:	
OJ541	GOOD EYESIGHT



<b>Current Job involves lots of stress</b>
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Wave	Variable	Label	Type
1	R1JSTRES	R1JSTRES:W1 Cur job involves much stress	Categ
2	R2JSTRES	R2JSTRES:W2 Cur job involves much stress	Categ
3	R3JSTRES	R3JSTRES:W3 Cur job involves much stress	Categ
4	R4JSTRES	R4JSTRES:W4 Cur job involves much stress	Categ
5	R5JSTRES	R5JSTRES:W5 Cur job involves much stress	Categ
6	R6JSTRES	R6JSTRES:W6 Cur job involves much stress	Categ
7	R7JSTRES	R7JSTRES:W7 Cur job involves much stress	Categ
8	R8JSTRES	R8JSTRES:W8 Cur job involves much stress	Categ
9	R9JSTRES	R9JSTRES:W9 Cur job involves much stress	Categ
10	R10JSTRES	R10JSTRES:W10 Cur job involves much stress	Categ
11	R11JSTRES	R11JSTRES:W11 Cur job involves much stress	Categ
12	R12JSTRES	R12JSTRES:W12 Cur job involves much stress	Categ
1	S1JSTRES	S1JSTRES:W1 Cur job involves much stress	Categ
2	S2JSTRES	S2JSTRES:W2 Cur job involves much stress	Categ
3	S3JSTRES	S3JSTRES:W3 Cur job involves much stress	Categ
4	S4JSTRES	S4JSTRES:W4 Cur job involves much stress	Categ
5	S5JSTRES	S5JSTRES:W5 Cur job involves much stress	Categ
6	S6JSTRES	S6JSTRES:W6 Cur job involves much stress	Categ
7	S7JSTRES	S7JSTRES:W7 Cur job involves much stress	Categ
8	S8JSTRES	S8JSTRES:W8 Cur job involves much stress	Categ
9	S9JSTRES	S9JSTRES:W9 Cur job involves much stress	Categ
10	S10JSTRES	S10JSTRES:W10 Cur job involves much stress	Categ
11	S11JSTRES	S11JSTRES:W11 Cur job involves much stress	Categ
12	S12JSTRES	S12JSTRES:W12 Cur job involves much stress	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JSTRES	8284	2.22	0.81	1.0	4.0
R2JSTRES	7718	2.37	0.86	1.0	4.0
R3JSTRES	6633	2.36	0.84	1.0	4.0
R4JSTRES	8082	2.31	0.83	1.0	4.0
R5JSTRES	6962	2.40	0.81	1.0	4.0
R6JSTRES	5833	2.37	0.82	1.0	4.0
R7JSTRES	7446	2.33	0.85	1.0	4.0
R8JSTRES	6381	2.34	0.86	1.0	4.0
R9JSTRES	5675	2.37	0.87	1.0	5.0
R10JSTRES	8564	2.30	0.86	1.0	5.0
R11JSTRES	7709	2.35	0.86	1.0	5.0
R12JSTRES	6674	2.37	0.85	1.0	5.0
S1JSTRES	6534	2.23	0.80	1.0	4.0
S2JSTRES	5933	2.35	0.85	1.0	4.0
S3JSTRES	5030	2.36	0.82	1.0	4.0
S4JSTRES	5955	2.30	0.83	1.0	4.0
S5JSTRES	5160	2.39	0.82	1.0	4.0
S6JSTRES	4293	2.37	0.81	1.0	4.0
S7JSTRES	5400	2.33	0.85	1.0	4.0
S8JSTRES	4643	2.34	0.85	1.0	4.0
S9JSTRES	4080	2.36	0.86	1.0	5.0
S10JSTRES	5869	2.28	0.85	1.0	5.0
S11JSTRES	5301	2.33	0.86	1.0	5.0
S12JSTRES	4513	2.35	0.84	1.0	5.0

## Categorical Variable Codes

Value	R1JSTRES	R2JSTRES	R3JSTRES	R4JSTRES	R5JSTRES	R6JSTRES	R7JSTRES
.D=DK/NA	6	11	7	11	11	12	4
.M=Oth missing	14	74	134	87	57	29	92
.R=RF	80	7	5	11	8	5	4
.S=Skip,proxy IW		43	91	250	202	204	318
.W=Skip,not working	4268	11789	11121	12943	12339	12082	12265
1.Strongly agree	1643	1287	1114	1492	1058	929	1403
2.Agree	3514	2998	2496	3019	2476	2154	2605
3.Disagree	2755	2736	2570	3117	3011	2398	2989
4.Strongly disagree	372	697	453	454	417	352	449

Value	R8JSTRES	R9JSTRES	R10JSTRES	R11JSTRES	R12JSTRES
.D=DK/NA	12	3	15	14	14
.M=Oth missing	82	98	321	170	139
.R=RF	6	8	3	5	5
.S=Skip,proxy IW	174	112	161	111	90
.W=Skip,not working	11814	11321	12970	12545	11825
1.Strongly agree	1190	963	1676	1357	1100
2.Agree	2233	2110	3278	2939	2560
3.Disagree	2525	2155	3033	2810	2497
4.Strongly disagree	433	416	555	582	506
5.Does not apply		31	22	21	11

Value	S1JSTRES	S2JSTRES	S3JSTRES	S4JSTRES	S5JSTRES	S6JSTRES	S7JSTRES
.D=DK/NA	6	11	6	9	7	8	2
.M=Oth missing	5	43	60	40	24	15	53
.R=RF	55	6	4	6	5	5	3
.S=Skip,proxy IW		38	88	237	193	194	312
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.W=Skip,not working	3300	7057	6727	7731	7341	7124	7202
1.Strongly agree	1260	1001	822	1105	802	668	1016
2.Agree	2827	2325	1911	2245	1870	1606	1908
3.Disagree	2161	2136	1984	2299	2183	1782	2159
4.Strongly disagree	286	471	313	306	305	237	317

Value	S8JSTRES	S9JSTRES	S10JSTRES	S11JSTRES	S12JSTRES
.D=DK/NA	7	3	10	9	7
.M=Oth missing	53	59	191	93	78
.R=RF	3	3	2	2	3
.S=Skip,proxy IW	170	108	155	108	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
1.Strongly agree	847	689	1133	948	734
2.Agree	1687	1559	2320	2062	1788
3.Disagree	1812	1525	2044	1891	1665
4.Strongly disagree	297	286	358	386	322
5.Does not apply		21	14	14	4

## How Constructed

RwJSTRES indicates the extent to which the Respondent agrees with the statement that her/his job involves lots of stress.

RxJSTRES simply recodes missing values to SAS missing codes. If the question is skipped because the Respondent is not working, it is set to .W for not working. Unlike other job characteristic questions, this question is usually asked even

if R is working at the same job. If skipped for some other reason, and R reported working at the prior interview, then the prior interview value is used.

Note that this question is not asked in any proxy interviews, but in many of these cases the prior interview report is used. Proxies for which this variable remains missing are set to .S.

If the value from a prior interview is used but is missing because the question wasn't asked or the interview was by proxy then current wave variable is set to .P, information from prior interview is missing.

In Wave 2A, there are only three levels of response as opposed to the four in other waves, and the wording reflects frequency rather than agreement. The omitted level in Wave 2A is the one that would correspond to "Strongly Agree" in other waves. The response of "Most of the time" is set to correspond to "Agree" in other waves, "Some of the time" is set to correspond to "Disagree", and "Hardly ever" is set to correspond to "Strongly Disagree."

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJSTRES.

### Cross Wave Differences in Original HRS Data

Each wave working Respondents are asked a number of questions about the job's characteristics. The question wording is the same across waves and asks:

"Here are some statements that are true for some people's jobs but not for others. Thinking of your job, please indicate how much you agree or disagree with each statement.

My job involves a lot of stress.

Do you strongly agree, agree, disagree or strongly disagree with that statement?"

In Wave 2A, the second part of the question was slightly different:

"Is this true most of the time, some of the time, or hardly ever?"

So for the AHEAD Respondents, R2JSTRES has one fewer response category (missing "All or almost all of the time"), and the wording reflects frequency not agreement.

In Wave 3A the question is asked separately and appears in different variables, depending on whether the Respondent is self-employed or not.

This question is asked if the Respondent is working, whether or not it is the same job as the prior interview.

From Wave 9, a category with value 5 was added to represent "Does Not Apply."

### HRS Variables Used

HRS 1992:	
V3317	F83D:JB INVOLVES STRESS
AHEAD 1993:	
B1196	G9c. CURR WORK: JOB STRESS HOW OFTEN
HRS 1994:	

W3950	FA116b.LOT OF STRESS
W4608	FB76b.JOB INVOLVES LOT O
AHEAD 1995:	
D3103	GA116B. LOT OF STRESS
D3463	GB76B. LOT OF STRESS
HRS 1996:	
E3012	G127B.LOT OF STRESS
HRS 1998:	
F3541	G127B.LOT OF STRESS
HRS 2000:	
G3830	G127B.LOT OF STRESS
HRS 2002:	
HJ547	A LOT OF STRESS
HRS 2004:	
JJ547	A LOT OF STRESS
HRS 2006:	
KJ547	A LOT OF STRESS
HRS 2008:	
LJ547	A LOT OF STRESS
HRS 2010:	
MJ547	A LOT OF STRESS
HRS 2012:	
NJ547	A LOT OF STRESS
HRS 2014:	
OJ547	A LOT OF STRESS

<b>Years of tenure on current job</b>
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Wave	Variable	Label	Type
1	R1JCTEN	R1JCTEN:W1 Current Job Tenure	Cont
2	R2JCTEN	R2JCTEN:W2 Current Job Tenure	Cont
3	R3JCTEN	R3JCTEN:W3 Current Job Tenure	Cont
4	R4JCTEN	R4JCTEN:W4 Current Job Tenure	Cont
5	R5JCTEN	R5JCTEN:W5 Current Job Tenure	Cont
6	R6JCTEN	R6JCTEN:W6 Current Job Tenure	Cont
7	R7JCTEN	R7JCTEN:W7 Current Job Tenure	Cont
8	R8JCTEN	R8JCTEN:W8 Current Job Tenure	Cont
9	R9JCTEN	R9JCTEN:W9 Current Job Tenure	Cont
10	R10JCTEN	R10JCTEN:W10 Current Job Tenure	Cont
11	R11JCTEN	R11JCTEN:W11 Current Job Tenure	Cont
12	R12JCTEN	R12JCTEN:W12 Current Job Tenure	Cont
1	S1JCTEN	S1JCTEN:W1 Current Job Tenure	Cont
2	S2JCTEN	S2JCTEN:W2 Current Job Tenure	Cont
3	S3JCTEN	S3JCTEN:W3 Current Job Tenure	Cont
4	S4JCTEN	S4JCTEN:W4 Current Job Tenure	Cont
5	S5JCTEN	S5JCTEN:W5 Current Job Tenure	Cont
6	S6JCTEN	S6JCTEN:W6 Current Job Tenure	Cont
7	S7JCTEN	S7JCTEN:W7 Current Job Tenure	Cont
8	S8JCTEN	S8JCTEN:W8 Current Job Tenure	Cont
9	S9JCTEN	S9JCTEN:W9 Current Job Tenure	Cont
10	S10JCTEN	S10JCTEN:W10 Current Job Tenure	Cont
11	S11JCTEN	S11JCTEN:W11 Current Job Tenure	Cont
12	S12JCTEN	S12JCTEN:W12 Current Job Tenure	Cont

**Descriptive Statistics**

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCTEN	8344	13.17	11.05	0.0	55.9
R2JCTEN	7785	13.74	12.52	0.0	68.4
R3JCTEN	6707	13.17	12.47	0.0	70.5
R4JCTEN	8192	12.93	12.26	0.0	70.5
R5JCTEN	7067	12.52	12.27	0.0	73.0
R6JCTEN	5942	12.51	12.56	0.0	75.0
R7JCTEN	7707	11.89	11.67	0.0	67.5
R8JCTEN	6510	11.94	11.90	0.0	69.6
R9JCTEN	5776	12.15	11.98	0.0	69.2
R10JCTEN	8726	12.18	11.30	0.0	71.0
R11JCTEN	7817	12.01	11.57	0.0	71.8
R12JCTEN	6752	12.08	11.68	0.0	70.1
S1JCTEN	6582	13.24	11.13	0.0	55.9
S2JCTEN	5998	13.75	12.41	0.0	68.4
S3JCTEN	5100	13.23	12.47	0.0	70.5
S4JCTEN	6085	12.97	12.23	0.0	70.5
S5JCTEN	5283	12.67	12.30	0.0	73.0
S6JCTEN	4420	12.68	12.65	0.0	75.0
S7JCTEN	5674	12.08	11.78	0.0	67.5
S8JCTEN	4788	12.13	11.98	0.0	69.6
S9JCTEN	4182	12.41	12.09	0.0	69.2
S10JCTEN	6025	12.38	11.36	0.0	71.0
S11JCTEN	5412	12.32	11.52	0.0	71.8
S12JCTEN	4600	12.32	11.64	0.0	68.0

## How Constructed

RwJCTEN is the Respondent's years of tenure on the current job in Wave 'w.'

Current work status, reported job changes, current job start year and current interview date are used to derive the current job tenure for each interview. It is calculated in years, rounded to the nearest tenth, using current interview date minus current job start date. If the Respondent continues to hold the same job, the job start date is taken from the interview when the job was first reported, except when a self-employed Respondent gives a job start date that falls between interviews. In this case the given job start date is used.

Job start dates are reported as month and year or just year. If the month is missing or not asked, July is used as the month. If any reported job year is before the Respondent turned age 15, then it is set to the year the Respondent turned 15 instead.

If a Respondent reports a job start date that is before the prior interview, then the job start date is adjusted to be between the prior and current interviews. If the end date of a prior job is given, then it is set to the midpoint between the end of the prior job and the current interview. If the Respondent says s/he still has the ending job, then the start date is set to the previously given job start date. Otherwise it is set to the midpoint between the two interviews. This most frequently happens with the self-employed.

If the Respondent is not working, this variable is set to a .W missing code.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJCTEN.

## Cross Wave Differences in Original HRS Data

Each interview obtains the Respondent's current work status. At the Respondent's first interview questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date of the new one.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

## HRS Variables Used

### HRS 1992:

V12717	F2:ANY WRK FOR PAY	:IND
V12718	F3:WHO WORK FOR	:IND
V2717	F2:ANY WRK FOR PAY	:IMP
V2718	F3:WHO WORK FOR	:IMP
V2816	F23:YR STARTED FOR EMPLR	
V2834	F33:YR STRT THIS BUSINES	

### AHEAD 1993:

B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1178	G2. CURRENTLY SELF EMPLOYED
B1182	G4. CURRENT WORK START YEAR
B1183	G4. CURRENT WORK START YEARS AGO

B1184	G4. CURRENT WORK START AT AGE
B1232	G20. EVER WORK 10/+ YRS?
HRS 1994:	
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS
W3458	FA19.STILL WORKING FOR W
W3662	FA59.START WORK FOR EMPL
W3663	FA59.START WORK FOR EMPL
W4327	FB22.STARTED S-E WORK-MO
W4328	FB22a.STARTED S-E WORK-Y
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2747	GA19. STILL WORKING SAME EMPLOYER
D2831	GA43. MONTH STARTED CURRENT WORK
D2832	GA43A. YEAR STARTED CURRENT WORK
HRS 1996:	
E2627	G2.WORKING FOR PAY
E2628	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
E2654	G19A.STILL WORKNG FOR PREV WAVE EMPLOYER
E2655	G19B.STILL WORKING PREV EMPLOYER
E2825	G63.START WORK FOR EMPLOYER-MONTH
E2826	G63A.START WORK FOR EMPLOYER-YEAR
HRS 1998:	
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3158	G19A.STILL WORKING FOR PREV WAVE EMPLOYE
F3166	G19B.STILL WORKING PREV EMPLOYER
F3348	G63.START WORK FOR EMPLOYER-MONTH
F3349	G63A.START WORK FOR EMPLOYER-YEAR
HRS 2000:	
G3381	G2.WORKING FOR PAY
G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3416	G19B.STILL WORKING PREV EMPLOYER
G3607	G63.START WORK FOR EMPLOYER-MONTH
G3608	G63A.START WORK FOR EMPLOYER-YEAR
HRS 2002:	
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ045	STILL WORKING PREV EMPLOYER
HJ248	MO-START WORK FOR CURRENT EMPLOYER
HJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2004:	
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ045	STILL WORKING PREV EMPLOYER
JJ248	MO-START WORK FOR CURRENT EMPLOYER
JJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2006:	
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ045	STILL WORKING PREV EMPLOYER
KJ248	MO-START WORK FOR CURRENT EMPLOYER
KJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2008:	
LJ020	WORKING FOR PAY

LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ045	STILL WORKING PREV EMPLOYER
LJ248	MO-START WORK FOR CURRENT EMPLOYER
LJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2010:	
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ045	STILL WORKING PREV EMPLOYER
MJ248	MO-START WORK FOR CURRENT EMPLOYER
MJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2012:	
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
NJ045	STILL WORKING PREV EMPLOYER
NJ248	MO-START WORK FOR CURRENT EMPLOYER
NJ249	YR-START WORK FOR CURRENT EMPLOYER
HRS 2014:	
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ045	STILL WORKING PREV EMPLOYER
OJ248	MO-START WORK FOR CURRENT EMPLOYER
OJ249	YR-START WORK FOR CURRENT EMPLOYER



<b>Occupation code for current job</b>
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Wave	Variable	Label	Type
1	R1JCOCC	R1JCOCC:W1 Current Job Occup/1980 Census	Categ
2	R2JCOCC	R2JCOCC:W2 Current Job Occup/1980 Census	Categ
3	R3JCOCC	R3JCOCC:W3 Current Job Occup/1980 Census	Categ
4	R4JCOCC	R4JCOCC:W4 Current Job Occup/1980 Census	Categ
5	R5JCOCC	R5JCOCC:W5 Current Job Occup/1980 Census	Categ
6	R6JCOCC	R6JCOCC:W6 Current Job Occup/1980 Census	Categ
7	R7JCOCC	R7JCOCC:W7 Current Job Occup/1980 Census	Categ
8	R8JCOCC	R8JCOCC:W8 Current Job Occup/1980 Census	Categ
9	R9JCOCC	R9JCOCC:W9 Current Job Occup/1980 Census	Categ
10	R10JCOCC	R10JCOCC:W10 Current Job Occup/1980 Census	Categ
11	R11JCOCC	R11JCOCC:W11 Current Job Occup/1980 Census	Categ
12	R12JCOCC	R12JCOCC:W12 Current Job Occup/1980 Census	Categ
1	S1JCOCC	S1JCOCC:W1 Current Job Occup/1980 Census	Categ
2	S2JCOCC	S2JCOCC:W2 Current Job Occup/1980 Census	Categ
3	S3JCOCC	S3JCOCC:W3 Current Job Occup/1980 Census	Categ
4	S4JCOCC	S4JCOCC:W4 Current Job Occup/1980 Census	Categ
5	S5JCOCC	S5JCOCC:W5 Current Job Occup/1980 Census	Categ
6	S6JCOCC	S6JCOCC:W6 Current Job Occup/1980 Census	Categ
7	S7JCOCC	S7JCOCC:W7 Current Job Occup/1980 Census	Categ
8	S8JCOCC	S8JCOCC:W8 Current Job Occup/1980 Census	Categ
9	S9JCOCC	S9JCOCC:W9 Current Job Occup/1980 Census	Categ
10	S10JCOCC	S10JCOCC:W10 Current Job Occup/1980 Census	Categ
11	S11JCOCC	S11JCOCC:W11 Current Job Occup/1980 Census	Categ
12	S12JCOCC	S12JCOCC:W12 Current Job Occup/1980 Census	Categ
2	R2JCOCCA	R2JCOCCA:W2 Cur Job Occup/Ahead coding	Categ
3	R3JCOCCA	R3JCOCCA:W3 Cur Job Occup/Ahead coding	Categ
4	R4JCOCCA	R4JCOCCA:W4 Cur Job Occup/Ahead coding	Categ
5	R5JCOCCA	R5JCOCCA:W5 Cur Job Occup/Ahead coding	Categ
6	R6JCOCCA	R6JCOCCA:W6 Cur Job Occup/Ahead coding	Categ
7	R7JCOCCA	R7JCOCCA:W7 Cur Job Occup/Ahead coding	Categ
8	R8JCOCCA	R8JCOCCA:W8 Cur Job Occup/Ahead coding	Categ
9	R9JCOCCA	R9JCOCCA:W9 Cur Job Occup/Ahead coding	Categ
10	R10JCOCCA	R10JCOCCA:W10 Cur Job Occup/Ahead coding	Categ
11	R11JCOCCA	R11JCOCCA:W11 Cur Job Occup/Ahead coding	Categ
12	R12JCOCCA	R12JCOCCA:W12 Cur Job Occup/Ahead coding	Categ
2	S2JCOCCA	S2JCOCCA:W2 Cur Job Occup/Ahead coding	Categ
3	S3JCOCCA	S3JCOCCA:W3 Cur Job Occup/Ahead coding	Categ
4	S4JCOCCA	S4JCOCCA:W4 Cur Job Occup/Ahead coding	Categ
5	S5JCOCCA	S5JCOCCA:W5 Cur Job Occup/Ahead coding	Categ
6	S6JCOCCA	S6JCOCCA:W6 Cur Job Occup/Ahead coding	Categ
7	S7JCOCCA	S7JCOCCA:W7 Cur Job Occup/Ahead coding	Categ
8	S8JCOCCA	S8JCOCCA:W8 Cur Job Occup/Ahead coding	Categ
9	S9JCOCCA	S9JCOCCA:W9 Cur Job Occup/Ahead coding	Categ
10	S10JCOCCA	S10JCOCCA:W10 Cur Job Occup/Ahead coding	Categ
11	S11JCOCCA	S11JCOCCA:W11 Cur Job Occup/Ahead coding	Categ
12	S12JCOCCA	S12JCOCCA:W12 Cur Job Occup/Ahead coding	Categ
7	R7JCOCCB	R7JCOCCB:W7 Cur Job Occup/2000 Census	Categ
8	R8JCOCCB	R8JCOCCB:W8 Cur Job Occup/2000 Census	Categ
9	R9JCOCCB	R9JCOCCB:W9 Cur Job Occup/2000 Census	Categ
10	R10JCOCCB	R10JCOCCB:W10 Cur Job Occup/2000 Census	Categ
11	R11JCOCCB	R11JCOCCB:W11 Cur Job Occup/2000 Census	Categ
12	R12JCOCCB	R12JCOCCB:W12 Cur Job Occup/2000 Census	Categ
7	S7JCOCCB	S7JCOCCB:W7 Cur Job Occup/2000 Census	Categ
8	S8JCOCCB	S8JCOCCB:W8 Cur Job Occup/2000 Census	Categ
9	S9JCOCCB	S9JCOCCB:W9 Cur Job Occup/2000 Census	Categ
10	S10JCOCCB	S10JCOCCB:W10 Cur Job Occup/2000 Census	Categ
11	S11JCOCCB	S11JCOCCB:W11 Cur Job Occup/2000 Census	Categ
12	S12JCOCCB	S12JCOCCB:W12 Cur Job Occup/2000 Census	Categ
10	R10JCOCCC	R10JCOCCC:W10 Cur Job Occup/2010 Census	Categ
11	R11JCOCCC	R11JCOCCC:W11 Cur Job Occup/2010 Census	Categ

12	R12JCOCCC	R12JCOCCC:W12	Cur	Job	Occup/2010	Census	Categ
10	S10JCOCCC	S10JCOCCC:W10	Cur	Job	Occup/2010	Census	Categ
11	S11JCOCCC	S11JCOCCC:W11	Cur	Job	Occup/2010	Census	Categ
12	S12JCOCCC	S12JCOCCC:W12	Cur	Job	Occup/2010	Census	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCOCC	8360	6.28	4.87	1.0	17.0
R2JCOCC	6998	6.20	4.84	1.0	17.0
R3JCOCC	6138	6.15	4.81	1.0	17.0
R4JCOCC	8072	6.03	4.79	1.0	17.0
R5JCOCC	7008	5.93	4.76	1.0	17.0
R6JCOCC	6047	5.94	4.79	1.0	17.0
R7JCOCC	7788	5.84	4.71	1.0	17.0
R8JCOCC	4794	5.64	4.66	1.0	17.0
R9JCOCC	3785	5.60	4.65	1.0	16.0
R10JCOCC	2807	5.46	4.54	1.0	17.0
R11JCOCC	2177	5.28	4.48	1.0	17.0
R12JCOCC	1625	5.26	4.51	1.0	16.0
S1JCOCC	6588	6.28	4.93	1.0	17.0
S2JCOCC	5467	6.23	4.91	1.0	17.0
S3JCOCC	4724	6.22	4.89	1.0	17.0
S4JCOCC	6012	6.07	4.86	1.0	17.0
S5JCOCC	5248	5.96	4.85	1.0	17.0
S6JCOCC	4496	5.95	4.88	1.0	17.0
S7JCOCC	5724	5.86	4.81	1.0	17.0
S8JCOCC	3545	5.68	4.75	1.0	17.0
S9JCOCC	2765	5.55	4.69	1.0	16.0
S10JCOCC	2012	5.40	4.57	1.0	17.0
S11JCOCC	1530	5.24	4.53	1.0	17.0
S12JCOCC	1124	5.14	4.54	1.0	16.0
R2JCOCCA	768	4.38	2.65	1.0	9.0
R3JCOCCA	627	4.39	2.69	1.0	9.0
R4JCOCCA	472	4.59	2.66	1.0	9.0
R5JCOCCA	256	4.34	2.63	1.0	9.0
R6JCOCCA	132	4.40	2.59	1.0	9.0
R7JCOCCA	77	4.13	2.61	1.0	9.0
R8JCOCCA	42	4.40	2.76	1.0	9.0
R9JCOCCA	19	4.16	2.77	1.0	9.0
R10JCOCCA	9	3.78	2.91	1.0	9.0
R11JCOCCA	5	4.00	2.92	2.0	9.0
R12JCOCCA	1	3.00	.	3.0	3.0
S2JCOCCA	520	4.10	2.58	1.0	9.0
S3JCOCCA	408	4.08	2.62	1.0	9.0
S4JCOCCA	293	4.39	2.62	1.0	9.0
S5JCOCCA	152	4.21	2.53	1.0	9.0
S6JCOCCA	76	4.42	2.60	1.0	9.0
S7JCOCCA	44	4.43	2.82	1.0	9.0
S8JCOCCA	20	4.40	3.12	1.0	9.0
S9JCOCCA	10	3.90	3.21	1.0	9.0
S10JCOCCA	4	3.25	3.86	1.0	9.0

S11JCOCCA	2	5.50	4.95	2.0	9.0
R7JCOCCB	5109	13.54	7.15	1.0	25.0
R8JCOCCB	6551	13.63	7.06	1.0	25.0
R9JCOCCB	5847	13.62	6.98	1.0	25.0
R10JCOCCB	8796	13.81	6.90	1.0	25.0
R11JCOCCB	5620	13.65	6.90	1.0	25.0
R12JCOCCB	3870	13.60	6.91	1.0	25.0
S7JCOCCB	3779	13.43	7.35	1.0	25.0
S8JCOCCB	4818	13.52	7.29	1.0	25.0
S9JCOCCB	4224	13.43	7.24	1.0	25.0
S10JCOCCB	6067	13.70	7.13	1.0	25.0
S11JCOCCB	3925	13.49	7.13	1.0	25.0
S12JCOCCB	2649	13.41	7.12	1.0	25.0
R10JCOCCC	6231	12.79	6.55	1.0	23.0
R11JCOCCC	6166	12.70	6.57	1.0	23.0
R12JCOCCC	5681	12.76	6.51	1.0	23.0
S10JCOCCC	4258	12.71	6.74	1.0	23.0
S11JCOCCC	4251	12.55	6.80	1.0	23.0
S12JCOCCC	3853	12.63	6.75	1.0	23.0

### Categorical Variable Codes

Value	R1JCOCC	R2JCOCC	R3JCOCC	R4JCOCC	R5JCOCC	R6JCOCC	R7JCOCC
.B=Other Census code				171	112		24
.M=Oth missing	33	67	82	198	120	36	52
.Q=Not asked this wv		788	650				
.W=Skip,not working	4259	11789	11121	12943	12339	12082	12265
01.Managerial specialty ope	1238	1063	928	1173	1057	907	1102
02.Prof specialty opr/tech	1305	1109	997	1444	1275	1111	1511
03.Sales	848	709	644	886	737	674	879
04.Clerical/admin supp	1340	1095	949	1242	1134	914	1232
05.Svc:prv hhld/clean/bldg	130	110	93	129	94	79	99
06.Svc:protection	138	115	104	125	120	111	147
07.Svc:food prep	252	220	184	244	197	176	230
08.Health svc	197	173	150	200	174	161	195
09.Personal svc	569	525	448	542	490	428	564
10.Farming/forestry/fishing	265	230	193	264	213	213	232
11.Mechanics/repair	305	225	216	267	212	155	224
12.Constr trade/extractors	287	221	218	265	226	169	259
13.Precision production	284	234	195	232	191	156	184
14.Operators: machine	565	440	360	444	338	284	307
15.Operators: transport, et	420	358	325	413	379	341	379
16.Operators: handlers, etc	210	168	132	198	169	163	237
17.Member of Armed Forces	7	3	2	4	2	5	7
Value	R8JCOCC	R9JCOCC	R10JCOCC	R11JCOCC	R12JCOCC		
.B=Other Census code	1803	2062	6002	5695	5179		
.M=Oth missing	58	49	255	137	118		
.W=Skip,not working	11814	11321	12970	12545	11825		
01.Managerial specialty ope	694	563	415	327	240		
02.Prof specialty opr/tech	1002	805	629	522	421		
03.Sales	541	426	335	281	205		
04.Clerical/admin supp	791	610	422	311	216		
05.Svc:prv hhld/clean/bldg	49	35	25	16	16		
06.Svc:protection	86	70	45	27	13		
07.Svc:food prep	131	98	76	59	38		

08.Health svc	108	82	60	45	31
09.Personal svc	313	249	213	164	121
10.Farming/forestry/fishing	138	113	96	69	44
11.Mechanics/repair	139	107	76	56	52
12.Constr trade/extractors	151	132	87	62	45
13.Precision production	114	86	59	40	35
14.Operators: machine	180	122	79	55	43
15.Operators: transport, et	228	180	121	91	70
16.Operators: handlers, etc	127	107	68	51	35
17.Member of Armed Forces	2		1	1	

Value	S1JCOCC	S2JCOCC	S3JCOCC	S4JCOCC	S5JCOCC	S6JCOCC	S7JCOCC
.B=Other Census code				110	69		20
.M=Oth missing	19	42	49	125	72	19	26
.Q=Not asked this wv		522	415				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.W=Skip,not working	3293	7057	6727	7731	7341	7124	7202
01.Managerial specialty ope	1019	863	743	914	827	712	850
02.Prof specialty opr/tech	1019	866	757	1078	963	846	1143
03.Sales	711	588	518	667	567	515	667
04.Clerical/admin supp	1026	821	697	896	816	644	848
05.Svc:prv hhld/clean/bldg	82	61	48	62	50	42	51
06.Svc:protection	114	101	86	103	100	86	113
07.Svc:food prep	166	142	118	150	108	94	132
08.Health svc	112	90	82	116	101	92	112
09.Personal svc	415	388	322	374	326	291	364
10.Farming/forestry/fishing	225	195	173	223	181	173	192
11.Mechanics/repair	253	189	187	222	178	131	188
12.Constr trade/extractors	254	193	183	226	190	135	209
13.Precision production	237	200	164	185	150	120	141
14.Operators: machine	435	330	269	324	261	211	223
15.Operators: transport, et	358	300	272	323	302	274	309
16.Operators: handlers, etc	156	137	103	145	126	127	176
17.Member of Armed Forces	6	3	2	4	2	3	6

Value	S8JCOCC	S9JCOCC	S10JCOCC	S11JCOCC	S12JCOCC
.B=Other Census code	1300	1459	4062	3916	3502
.M=Oth missing	31	29	153	67	63
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
01.Managerial specialty ope	547	432	306	232	180
02.Prof specialty opr/tech	747	599	469	381	294
03.Sales	404	329	246	203	154
04.Clerical/admin supp	550	426	297	217	143
05.Svc:prv hhld/clean/bldg	25	19	14	9	9
06.Svc:protection	71	52	38	21	10
07.Svc:food prep	73	56	41	29	20
08.Health svc	61	45	29	23	16
09.Personal svc	205	155	124	92	59
10.Farming/forestry/fishing	116	95	78	53	38
11.Mechanics/repair	121	91	66	47	38
12.Constr trade/extractors	121	106	68	51	37
13.Precision production	94	69	44	33	24
14.Operators: machine	130	84	59	40	28
15.Operators: transport, et	183	129	89	67	54
16.Operators: handlers, etc	95	78	43	31	20
17.Member of Armed Forces	2		1	1	

Value	R2JCOCCA	R3JCOCCA	R4JCOCCA	R5JCOCCA	R6JCOCCA	R7JCOCCA
.M=Oth missing	24	24	19			
.Q=Not asked this wv	11420	10964	15433	14691	14148	16847
.W=Skip,not working	7430	6376	5460	4632	3885	3205
01.Professional/technical w	134	106	80	46	22	16
02.Managers/officials/propr	106	97	40	31	13	9
03.Clerical/kindred workers	105	88	72	37	19	9
04.Sales workers	103	78	81	45	28	17
05.Craftsmen/foremen/kindre	62	42	21	11	7	4
06.Operatives/kindred worke	42	36	32	19	11	6
07.Laborers/farm foremen	21	23	21	5	1	
08.Svc workers	172	123	102	51	23	11
09.Farmers and farm manager	23	34	23	11	8	5

Value	R8JCOCCA	R9JCOCCA	R10JCOCCA	R11JCOCCA	R12JCOCCA
.Q=Not asked this wv	15841	15130	20545	19421	17919
.W=Skip,not working	2586	2068	1480	1128	827
01.Professional/technical w	8	3	2		
02.Managers/officials/propr	4	4	2	2	
03.Clerical/kindred workers	6	3	1	1	1
04.Sales workers	9	3	2	1	
05.Craftsmen/foremen/kindre	1				
06.Operatives/kindred worke	3	1			
08.Svc workers	7	4	1		
09.Farmers and farm manager	4	1	1	1	

Value	S2JCOCCA	S3JCOCCA	S4JCOCCA	S5JCOCCA	S6JCOCCA	S7JCOCCA
.M=Oth missing	6	8	5			
.Q=Not asked this wv	9123	8629	11178	10636	10065	11802
.U=Unmarried	5970	5658	6869	6538	6306	6777
.V=Spouse NR	200	95	537	311	220	380
.W=Skip,not working	3823	3193	2502	1942	1498	1126
01.Professional/technical w	105	81	57	26	14	10
02.Managers/officials/propr	81	71	26	21	6	4
03.Clerical/kindred workers	64	49	39	21	10	4
04.Sales workers	71	54	51	27	15	7
05.Craftsmen/foremen/kindre	44	34	20	10	6	4
06.Operatives/kindred worke	36	26	24	14	7	4
07.Laborers/farm foremen	17	16	15	5	1	
08.Svc workers	84	52	43	20	12	6
09.Farmers and farm manager	18	25	18	8	5	5

Value	S8JCOCCA	S9JCOCCA	S10JCOCCA	S11JCOCCA	S12JCOCCA
.Q=Not asked this wv	10910	10060	13170	12270	10898
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	805	576	339	216	129
01.Professional/technical w	6	3	2		
02.Managers/officials/propr	1	2	1	1	
03.Clerical/kindred workers	2	1			
04.Sales workers	3	1			
05.Craftsmen/foremen/kindre	1				
06.Operatives/kindred worke	1				
08.Svc workers	3	2			
09.Farmers and farm manager	3	1	1	1	

Value	R7JCOCCB
.M=Oth missing	52
.P=From previous Census cod	2703
.W=Skip,not working	12265
01.Management Occupations	635
02.Business Oper-ns Special	96
03.Financial Specialists	112
04.Computer+Math Occs	68
05.Architecture+Engineering	71
06.Life/Physical/SocialSci	58
07.Community+Social Svcs Oc	120
08.Legal Occups	70
09.Education/Training/Libra	262
10.Arts/Design/Entertnmt Oc	123
11.Hlthcare Practition/Tech	205
12.Healthcare Support Occs	142
13.Protective Service Occs	90
14.Food Prep+Serving Occs	131
15.Blding/Grounds/Clean/Mai	302
16.Personal Care+Service Oc	237
17.Sales Occups	632
18.Office+Admin Support Occ	696
19.Farm/Fish/Forestry Occup	34
20.Construction Trades	272
21.Extraction Workers	3
22.Install/Maint/Repair Wor	163
23.Production Occups	331
24.Transport/Material Movin	251
25.Military Specific Occups	5

Value	R8JCOCCB	R9JCOCCB	R10JCOCCB	R11JCOCCB	R12JCOCCB
.B=Other Census code				2236	2800
.M=Oth missing	58	49	255	137	118
.P=From previous Census cod	46		13	16	134
.W=Skip,not working	11814	11321	12970	12545	11825
01.Management Occupations	748	650	858	554	372
02.Business Oper-ns Special	130	105	188	119	77
03.Financial Specialists	131	117	154	109	87
04.Computer+Math Occs	83	72	142	90	64
05.Architecture+Engineering	93	94	128	84	59
06.Life/Physical/SocialSci	75	59	77	48	35
07.Community+Social Svcs Oc	146	120	204	132	90
08.Legal Occups	88	82	109	87	69
09.Education/Training/Libra	440	430	617	422	297
10.Arts/Design/Entertnmt Oc	116	95	146	89	70
11.Hlthcare Practition/Tech	290	257	409	301	228
12.Healthcare Support Occs	166	168	285	179	120
13.Protective Service Occs	121	120	174	101	56
14.Food Prep+Serving Occs	220	211	303	174	105
15.Blding/Grounds/Clean/Mai	363	332	592	375	254
16.Personal Care+Service Oc	279	259	471	268	193
17.Sales Occups	712	635	841	552	361
18.Office+Admin Support Occ	1054	908	1297	841	565
19.Farm/Fish/Forestry Occup	43	39	53	26	17
20.Construction Trades	281	248	381	229	164
21.Extraction Workers	4	2	3	1	
22.Install/Maint/Repair Wor	173	161	289	182	141
23.Production Occups	407	333	519	321	216
24.Transport/Material Movin	386	345	547	333	227
25.Military Specific Occups	2	5	9	3	3

Value	S7JCOCCB
.M=Oth missing	26
.P=From previous Census cod	1965
.U=Unmarried	6777
.V=Spouse NR	380
.W=Skip,not working	7202
01.Management Occupations	507
02.Business Oper-ns Special	73
03.Financial Specialists	90
04.Computer+Math Occs	55
05.Architecture+Engineering	61
06.Life/Physical/SocialSci	46
07.Community+Social Svcs Oc	83
08.Legal Occups	54
09.Education/Training/Libra	186
10.Arts/Design/Entertnmt Oc	97
11.Hlthcare Practition/Tech	147
12.Healthcare Support Occs	83
13.Protective Service Occs	71
14.Food Prep+Serving Occs	86
15.Blding/Grounds/Clean/Mai	201
16.Personal Care+Service Oc	148
17.Sales Occups	482
18.Office+Admin Support Occ	479
19.Farm/Fish/Forestry Occup	25
20.Construction Trades	212
21.Extraction Workers	3
22.Install/Maint/Repair Wor	137
23.Production Occups	245
24.Transport/Material Movin	203
25.Military Specific Occups	5

Value	S8JCOCCB	S9JCOCCB	S10JCOCCB	S11JCOCCB	S12JCOCCB
.B=Other Census code				1511	1889
.M=Oth missing	31	29	153	67	63
.P=From previous Census cod	27		7	10	88
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
01.Management Occupations	612	528	665	442	286
02.Business Oper-ns Special	94	84	130	79	54
03.Financial Specialists	99	89	110	77	64
04.Computer+Math Occs	68	58	95	65	43
05.Architecture+Engineering	82	84	107	67	49
06.Life/Physical/SocialSci	60	50	64	43	30
07.Community+Social Svcs Oc	104	87	134	96	64
08.Legal Occups	59	55	75	59	47
09.Education/Training/Libra	316	295	434	304	205
10.Arts/Design/Entertnmt Oc	87	74	107	65	50
11.Hlthcare Practition/Tech	212	183	270	194	154
12.Healthcare Support Occs	100	93	154	101	63
13.Protective Service Occs	98	81	114	71	36
14.Food Prep+Serving Occs	134	125	179	112	77
15.Blding/Grounds/Clean/Mai	229	215	376	244	165
16.Personal Care+Service Oc	174	164	264	153	99
17.Sales Occups	532	470	608	391	261
18.Office+Admin Support Occ	728	621	855	546	349
19.Farm/Fish/Forestry Occup	31	29	41	14	10
20.Construction Trades	228	191	288	175	119
21.Extraction Workers	4	2	3	1	
22.Install/Maint/Repair Wor	146	130	214	140	106
23.Production Occups	306	243	371	234	150
24.Transport/Material Movin	313	268	404	251	167
25.Military Specific Occups	2	5	5	1	1

Value	R10JCOCCC	R11JCOCCC	R12JCOCCC
.M=Oth missing	255	137	118
.P=From previous Census cod	2578	1706	1123
.W=Skip,not working	12970	12545	11825
01.Management Occs	627	636	548
02.Business+Financial Oper-	260	272	257
03.Computer+Mathematical Oc	109	106	100
04.Architecture+Engineering	92	84	75
05.Life/Physical/SocialSci	55	44	48
06.Community+Social Service	154	152	134
07.Legal Occs	82	80	73
08.Education/Training/Libra	352	362	335
09.Arts/Design/Entertainmen	124	126	115
10.Healthcare Practitioners	252	273	261
11.Healthcare Support Occs	196	180	169
12.Protective Service Occs	116	118	103
13.Food Prep+Serving Relate	201	208	196
14.Building/Grounds Cleanin	442	438	419
15.Personal Care+Service Oc	387	366	353
16.Sales+Related Occs	631	608	549
17.Office+Administrative Su	811	827	761
18.Farming/Fishing/Forestry	35	33	31
19.Construction+Extraction	328	313	289
20.Installation/Maintenance	213	182	172
21.Production Occs	375	365	315
22.Transportation+Material	381	388	373
23.Military Specific Occs	8	5	5

Value	S10JCOCCC	S11JCOCCC	S12JCOCCC
.M=Oth missing	153	67	63
.P=From previous Census cod	1816	1195	773
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
.W=Skip,not working	7286	6975	6338
01.Management Occs	482	507	428
02.Business+Financial Oper-	177	186	175
03.Computer+Mathematical Oc	69	71	72
04.Architecture+Engineering	74	69	64
05.Life/Physical/SocialSci	49	37	39
06.Community+Social Service	98	105	93
07.Legal Occs	56	57	46
08.Education/Training/Libra	248	262	232
09.Arts/Design/Entertainmen	90	82	68
10.Healthcare Practitioners	152	167	156
11.Healthcare Support Occs	102	100	93
12.Protective Service Occs	68	77	63
13.Food Prep+Serving Relate	123	130	124
14.Building/Grounds Cleanin	291	300	261
15.Personal Care+Service Oc	210	193	195
16.Sales+Related Occs	462	424	385
17.Office+Administrative Su	531	520	499
18.Farming/Fishing/Forestry	29	26	24
19.Construction+Extraction	247	239	212
20.Installation/Maintenance	155	143	133
21.Production Occs	265	267	217
22.Transportation+Material	276	286	271
23.Military Specific Occs	4	3	3

## How Constructed

RwJCOCC is the Respondent's occupation on the current job in Wave "w" based on the 1980 Census codes. RwJCOCCA is also the Respondent's occupation on the current job, but with the codes used only for the AHEAD cohort in Waves 2A and



3A. RwJCOCCB is the Respondent's current job occupation based on the 2000 Census occupations used beginning in Wave 7. RwJCOCCC is the Respondent's current job occupation based on the 2010 Census occupations used beginning in Wave 10.

The current job occupation is usually taken from the interview when the job was first reported. It is carried forward if the Respondent continues working at the same job and position. If the Respondent is self-employed and reports a new occupation or the Respondent changes job title and reports a new occupation, then the current interview values are used.

The occupation codes differed between the AHEAD and other cohorts in Waves 2 and 3, and the AHEAD codes are not provided for other cohorts in any wave. For AHEAD Respondents both sets of codes are given in Wave 4 only. In each wave the unavailable set of codes is set to .Q for the appropriate variables, to indicate that the information is missing for this reason. Thus, in Waves 2A and 3A, RwJCOCC is set to .Q for the AHEAD cohort, and for Waves 2H, 3H, and 4 RwJCOCCA is set to .Q for other cohorts. From Wave 5 on the AHEAD codes are not provided for any cohort, so codes have been carried forward from an earlier wave.

From Wave 7 to Wave 10, HRS uses a different set of occupation codes, based on the 2000 Census. Before Wave 7 there are 17 possible occupation codes; from Wave 7-10, there are 25 codes. RwJCOCCB begins with R7JCOCCB and provides the new code set.

HRS provided the 1980 and 2000 Census codes for Wave 7 ONLY. R7JCOCC contains the 1980 Census codes and R7JCOCCB contains the 2000 Census codes. If the occupation question is not asked in Wave 7 because the Respondent has not changed jobs or job title, then R7JCOCCB is set to .P, for occupation taken from prior wave, and R7JCOCC provides the 1980 Census-based occupation. If R7JCOCCB is provided but the Respondent did not change jobs, s/he may have values for both R7JCOCC and R7JCOCCB. From Wave 8, if the Respondent starts a new job, then RwJCOCC is set to .B, to indicate that the occupation code is not from the 1980 Census codes.

Beginning in Wave 10, HRS uses another different set of occupation codes, based on the 2010 Census. Before Wave 10 there are 25 possible occupation codes; beginning in Wave 10, there are 23 codes. RwJCOCCC begins with R10JCOCCC and provides the new code set.

HRS provided the 2000 and 2010 Census codes for Wave 10 ONLY. R10JCOCCB contains the 2000 Census codes and R10JCOCCC contains the 2010 Census codes. If the occupation question is not asked in Wave 10 because the Respondent has not changed jobs or job title, then R10JCOCCC is set to .P, for occupation taken from prior wave, R10JCOCCB provides the 2000 Census-based occupation, and R10JCOCC provides the 1980 Census-based occupation. If R10JCOCCC is provided but the Respondent did not change jobs, s/he may have values for both R10JCOCCB and R10JCOCCC. From Wave 11, if the Respondent starts a new job, then RwJCOCC and RwJCOCCB are set to .B, to indicate that the occupation code is not from the 1980 and 2000 Census codes.

If the Respondent is not working, this variable is set to a .W missing code.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJCOCC, RwJCOCCA, RwJCOCCB and RwJCOCCC.

### **Cross Wave Differences in Original HRS Data**

Each interview obtains the Respondent's current work status. At the Respondent's first interview, questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

Occupation codes for the AHEAD cohort (Waves 2A and 3A) differed from those collected from other cohorts. In Wave 4 only, both the AHEAD and HRS version of the codes are available for AHEAD Respondents, while only the HRS codes are available for other cohorts.

From Wave 1-8, the occupation codes are based on 1980 Census occupations, assigned to one of 17 categories. From Wave 7-10, they are based on 2000 Census occupations, assigned to one of 25 categories. Beginning in Wave 10, they are based on 2010 Census occupations, assigned to one of 23 categories. In Wave 7 only, we have both the 1980 and 2000 occupation codes stored in R7JCOCC and R7JCOCCB. In Wave 10 only, we have both the 2000 and 2010 occupation codes stored in R10JCOCCB and R10JCOCCC.

## HRS Variables Used

HRS 1992:	
V2720	F5:OCC:1980 CENSUS OCC
V2821	F27:OCC:1980 CENSUS OCC
AHEAD 1993:	
OCCG3B	G3. CURRENT OCCUPATION
HRS 1994:	
W3609	FA41b/FA42.OCCUPATION
W4312B	FB16.OCCUPATION
AHEAD 1995:	
D2820M	GA39/42. OCCUPATION
D3254M	GB15/16. OCCUPATION
HRS 1996:	
E2666M	G24/G25. CURRENT OCC
E2732M	G41A/G42. OCC
HRS 1998:	
F3187AM	G25.CURRENT OCC - AHD MASKED
F3187HM	G25.CURRENT OCC - HRS MASKED
F3255AM	G42.OCC - AHD MASKED
F3255HM	G42.OCC - HRS MASKED
HRS 2000:	
G3436M	G25.CURRENT OCC - MASKED
G3505M	G42.OCC - MASKED
HRS 2002:	
HJ061M	CURRENT WORK DONE - MASKED
HJ168M	OCCUPATION - MASKED
HRS 2004:	
JJ061M	CURRENT WORK DONE - MASKED
JJ061M_00	CURRENT WORK DONE 2000 Census- MASKED
JJ168M	OCCUPATION - MASKED
JJ168M_00	OCCUPATION 2000 Census- MASKED
HRS 2006:	
KJ062M	CURRENT WORK DONE - MASKED
KJ168M	TYPE WORK DONE- MASKED
HRS 2008:	
LJ168M	TYPE WORK DONE- MASKED
HRS 2010:	
MJ062M_10	CURRENT WORK DONE 2010 Census- MASKED
MJ168M	TYPE WORK DONE- MASKED
MJ168M_10	TYPE WORK DONE 2010 Census- MASKED

HRS 2012:  
NJ168M TYPE WORK DONE- MASKED

HRS 2014:  
OJ168M TYPE WORK DONE- MASKED

<b>Industry code for current job</b>
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Wave	Variable	Label	Type
1	R1JCIND	R1JCIND:W1 Current Job Industry/1980 Census	Categ
2	R2JCIND	R2JCIND:W2 Current Job Industry/1980 Census	Categ
3	R3JCIND	R3JCIND:W3 Current Job Industry/1980 Census	Categ
4	R4JCIND	R4JCIND:W4 Current Job Industry/1980 Census	Categ
5	R5JCIND	R5JCIND:W5 Current Job Industry/1980 Census	Categ
6	R6JCIND	R6JCIND:W6 Current Job Industry/1980 Census	Categ
7	R7JCIND	R7JCIND:W7 Current Job Industry/1980 Census	Categ
8	R8JCIND	R8JCIND:W8 Current Job Industry/1980 Census	Categ
9	R9JCIND	R9JCIND:W9 Current Job Industry/1980 Census	Categ
10	R10JCIND	R10JCIND:W10 Current Job Industry/1980 Census	Categ
11	R11JCIND	R11JCIND:W11 Current Job Industry/1980 Census	Categ
12	R12JCIND	R12JCIND:W12 Current Job Industry/1980 Census	Categ
1	S1JCIND	S1JCIND:W1 Current Job Industry/1980 Census	Categ
2	S2JCIND	S2JCIND:W2 Current Job Industry/1980 Census	Categ
3	S3JCIND	S3JCIND:W3 Current Job Industry/1980 Census	Categ
4	S4JCIND	S4JCIND:W4 Current Job Industry/1980 Census	Categ
5	S5JCIND	S5JCIND:W5 Current Job Industry/1980 Census	Categ
6	S6JCIND	S6JCIND:W6 Current Job Industry/1980 Census	Categ
7	S7JCIND	S7JCIND:W7 Current Job Industry/1980 Census	Categ
8	S8JCIND	S8JCIND:W8 Current Job Industry/1980 Census	Categ
9	S9JCIND	S9JCIND:W9 Current Job Industry/1980 Census	Categ
10	S10JCIND	S10JCIND:W10 Current Job Industry/1980 Census	Categ
11	S11JCIND	S11JCIND:W11 Current Job Industry/1980 Census	Categ
12	S12JCIND	S12JCIND:W12 Current Job Industry/1980 Census	Categ
7	R7JCINDB	R7JCINDB:W7 Cur Job Industry/2002 Census	Categ
8	R8JCINDB	R8JCINDB:W8 Cur Job Industry/2002 Census	Categ
9	R9JCINDB	R9JCINDB:W9 Cur Job Industry/2002 Census	Categ
10	R10JCINDB	R10JCINDB:W10 Cur Job Industry/2002 Census	Categ
11	R11JCINDB	R11JCINDB:W11 Cur Job Industry/2002 Census	Categ
12	R12JCINDB	R12JCINDB:W12 Cur Job Industry/2002 Census	Categ
7	S7JCINDB	S7JCINDB:W7 Cur Job Industry/2002 Census	Categ
8	S8JCINDB	S8JCINDB:W8 Cur Job Industry/2002 Census	Categ
9	S9JCINDB	S9JCINDB:W9 Cur Job Industry/2002 Census	Categ
10	S10JCINDB	S10JCINDB:W10 Cur Job Industry/2002 Census	Categ
11	S11JCINDB	S11JCINDB:W11 Cur Job Industry/2002 Census	Categ
12	S12JCINDB	S12JCINDB:W12 Cur Job Industry/2002 Census	Categ
10	R10JCINDC	R10JCINDC:W10 Cur Job Industry/2007 Census	Categ
11	R11JCINDC	R11JCINDC:W11 Cur Job Industry/2007 Census	Categ
12	R12JCINDC	R12JCINDC:W12 Cur Job Industry/2007 Census	Categ
10	S10JCINDC	S10JCINDC:W10 Cur Job Industry/2007 Census	Categ
11	S11JCINDC	S11JCINDC:W11 Cur Job Industry/2007 Census	Categ
12	S12JCINDC	S12JCINDC:W12 Cur Job Industry/2007 Census	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JCIND	8327	7.73	3.76	1.0	13.0
R2JCIND	6995	7.83	3.74	1.0	13.0
R3JCIND	6122	7.89	3.70	1.0	13.0
R4JCIND	8019	7.98	3.66	1.0	13.0
R5JCIND	6975	8.13	3.65	1.0	13.0
R6JCIND	6028	8.19	3.64	1.0	13.0
R7JCIND	7781	8.24	3.65	1.0	13.0
R8JCIND	5021	8.32	3.66	1.0	13.0

R9JCIND	4229	8.34	3.66	1.0	13.0
R10JCIND	3251	8.46	3.64	1.0	13.0
R11JCIND	2643	8.53	3.59	1.0	13.0
R12JCIND	2037	8.53	3.61	1.0	13.0
S1JCIND	6573	7.56	3.77	1.0	13.0
S2JCIND	5469	7.65	3.76	1.0	13.0
S3JCIND	4724	7.68	3.72	1.0	13.0
S4JCIND	5979	7.82	3.70	1.0	13.0
S5JCIND	5227	7.97	3.70	1.0	13.0
S6JCIND	4482	8.02	3.69	1.0	13.0
S7JCIND	5720	8.05	3.70	1.0	13.0
S8JCIND	3703	8.15	3.70	1.0	13.0
S9JCIND	3079	8.14	3.69	1.0	13.0
S10JCIND	2341	8.27	3.68	1.0	13.0
S11JCIND	1870	8.35	3.64	1.0	13.0
S12JCIND	1419	8.26	3.66	1.0	13.0
R7JCINDB	4811	10.78	5.12	1.0	19.0
R8JCINDB	4604	10.93	5.05	1.0	19.0
R9JCINDB	5833	11.16	4.96	1.0	19.0
R10JCINDB	8751	11.29	4.95	1.0	19.0
R11JCINDB	6005	11.35	4.90	1.0	19.0
R12JCINDB	4397	11.31	4.88	1.0	19.0
S7JCINDB	3567	10.47	5.14	1.0	19.0
S8JCINDB	3426	10.61	5.07	1.0	19.0
S9JCINDB	4216	10.84	4.98	1.0	19.0
S10JCINDB	6037	10.92	4.96	1.0	19.0
S11JCINDB	4187	11.06	4.92	1.0	19.0
S12JCINDB	3020	11.00	4.89	1.0	19.0
R10JCINDC	6066	11.16	5.00	1.0	19.0
R11JCINDC	5939	11.27	4.96	1.0	19.0
R12JCINDC	5450	11.25	4.94	1.0	19.0
S10JCINDC	4131	10.76	5.02	1.0	19.0
S11JCINDC	4082	10.96	5.00	1.0	19.0
S12JCINDC	3684	10.92	4.98	1.0	19.0

## Categorical Variable Codes

Value	R1JCIND	R2JCIND	R3JCIND	R4JCIND	R5JCIND	R6JCIND	R7JCIND
.B=Other Census code							7
.M=Oth missing	66	844	729	422	265	55	76
.Q=Not asked this wv		14	19				
.W=Skip,not working	4259	11789	11121	12943	12339	12082	12265
01.Agric/Forest/Fish	278	240	201	267	224	225	247
02.Mining and Constr	508	417	355	431	384	319	461
03.Mnfg: Non-durable	611	486	389	488	367	296	371
04.Mnfg: Durable	903	697	591	712	574	445	551
05.Transportation	570	467	399	498	418	339	462
06.Wholesale	320	246	250	324	263	227	299
07.Retail	933	811	695	939	819	731	899
08.Finan/Ins/RealEs	528	451	416	584	511	460	604
09.Busns/Repair Svc	491	440	427	588	541	450	556
10.Personal Service	412	369	318	438	352	327	411
11.Entertn/Recreatn	125	96	99	150	127	136	164
12.Prof/Related Svcs	2244	1948	1706	2255	2061	1807	2371
13.Public Administration	404	327	276	345	334	266	385

Value	R8JCIND	R9JCIND	R10JCIND	R11JCIND	R12JCIND
.B=Other Census code	1548	1614	5543	5239	4768
.M=Oth missing	86	53	270	127	117
.W=Skip,not working	11814	11321	12970	12545	11825
01.Agric/Forest/Fish	147	126	107	79	58
02.Mining and Constr	269	232	166	131	104
03.Mnfg: Non-durable	239	197	137	102	92
04.Mnfg: Durable	382	297	205	168	132
05.Transportation	312	261	193	150	110
06.Wholesale	202	176	131	105	76
07.Retail	539	461	357	280	201
08.Finan/Ins/RealEs	398	344	257	230	167
09.Busns/Repair Svc	342	289	225	185	156
10.Personal Service	206	169	147	122	98
11.Entertn/Recreatn	100	74	62	52	36
12.Prof/Related Svcs	1614	1375	1097	909	716
13.Public Administration	271	228	167	130	91

Value	S1JCIND	S2JCIND	S3JCIND	S4JCIND	S5JCIND	S6JCIND	S7JCIND
.B=Other Census code							7
.M=Oth missing	34	561	458	268	162	33	43
.Q=Not asked this wv		1	6				
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
.W=Skip,not working	3293	7057	6727	7731	7341	7124	7202
01.Agric/Forest/Fish	238	205	180	225	191	187	198
02.Mining and Constr	440	366	303	363	311	254	375
03.Mnfg: Non-durable	489	383	303	363	285	230	280
04.Mnfg: Durable	737	568	478	559	464	360	440
05.Transportation	473	377	325	373	320	265	365
06.Wholesale	271	205	207	263	216	174	240
07.Retail	737	646	550	684	593	532	647
08.Finan/Ins/RealEs	432	361	323	450	394	345	457
09.Busns/Repair Svc	384	348	336	454	406	340	412
10.Personal Service	299	256	207	263	221	214	251
11.Entertn/Recreatn	85	66	67	106	84	88	110
12.Prof/Related Svcs	1672	1429	1237	1613	1494	1294	1670
13.Public Administration	316	259	208	263	248	199	275

Value	S8JCIND	S9JCIND	S10JCIND	S11JCIND	S12JCIND
.B=Other Census code	1120	1144	3725	3588	3209
.M=Oth missing	53	30	161	55	61
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338

01.Agric/Forest/Fish	122	107	87	62	47
02.Mining and Constr	216	181	126	102	82
03.Mnfg: Non-durable	176	143	103	73	65
04.Mnfg: Durable	303	233	160	128	96
05.Transportation	247	213	151	118	89
06.Wholesale	159	136	106	80	64
07.Retail	384	321	243	188	142
08.Finan/Ins/RealEs	307	273	198	178	128
09.Busns/Repair Svc	262	218	172	138	105
10.Personal Service	128	105	83	70	57
11.Entertn/Recreatn	70	51	41	32	21
12.Prof/Related Svcs	1134	938	749	605	455
13.Public Administration	195	160	122	96	68

Value	R7JCINDB
.M=Oth missing	76
.P=From previous Census cod	2977
.W=Skip,not working	12265
01.Agric/Forest/Fish/Huntin	153
02.Mining	19
03.Utilities	51
04.Construction	361
05.Manufacturing (continued	532
06.Wholesale Trade	173
07.Retail Trade	446
08.Transport/Warehousing	183
09.Information	83
10.Finance/Insurance	212
11.Real Estate/Rental/Leasi	193
12.Prof/Scientific/Tech Svc	292
13.Mgmt/Admin/Support/Wast	203
14.Educational Services	380
15.Health Care/Social Assis	643
16.Arts/Entertain/Recreatio	134
17.Accomodations/Food Svcs	168
18.Other Svcs/Except PubAdm	404
19.PubAdmin/Active Duty Mil	181

Value	R8JCINDB	R9JCINDB	R10JCINDB	R11JCINDB	R12JCINDB
.B=Other Census code				1836	2227
.M=Oth missing	86	53	270	127	117
.P=From previous Census cod	1965	10	43	41	181
.W=Skip,not working	11814	11321	12970	12545	11825
01.Agric/Forest/Fish/Huntin	129	131	162	102	68
02.Mining	15	20	37	25	17
03.Utilities	47	63	89	56	39
04.Construction	325	311	469	292	221
05.Manufacturing (continued	471	617	950	665	505
06.Wholesale Trade	155	203	282	188	139
07.Retail Trade	450	560	749	500	359
08.Transport/Warehousing	187	248	457	312	224
09.Information	79	106	145	100	74
10.Finance/Insurance	203	257	344	257	186
11.Real Estate/Rental/Leasi	196	205	265	190	137
12.Prof/Scientific/Tech Svc	291	348	480	341	271
13.Mgmt/Admin/Support/Wast	183	225	369	225	155
14.Educational Services	393	601	893	674	523
15.Health Care/Social Assis	628	871	1472	998	723
16.Arts/Entertain/Recreatio	117	131	182	125	83
17.Accomodations/Food Svcs	166	249	349	234	151
18.Other Svcs/Except PubAdm	395	428	641	417	305
19.PubAdmin/Active Duty Mil	174	259	416	304	217

Value	S7JCINDB
.M=Oth missing	43
.P=From previous Census cod	2160
.U=Unmarried	6777
.V=Spouse NR	380
.W=Skip,not working	7202
01.Agric/Forest/Fish/Huntin	131
02.Mining	17
03.Utilities	44
04.Construction	292
05.Manufacturing (continued	416
06.Wholesale Trade	134
07.Retail Trade	332
08.Transport/Warehousing	145
09.Information	60
10.Finance/Insurance	166
11.Real Estate/Rental/Leasi	144
12.Prof/Scientific/Tech Svc	222
13.Mgmt/Admin/Support/Wast	144
14.Educational Services	283
15.Health Care/Social Assis	416
16.Arts/Entertain/Recreatio	102
17.Accomodations/Food Svcs	119
18.Other Svcs/Except PubAdm	279
19.PubAdmin/Active Duty Mil	121

Value	S8JCINDB	S9JCINDB	S10JCINDB	S11JCINDB	S12JCINDB
.B=Other Census code				1240	1485
.M=Oth missing	53	30	161	55	61
.P=From previous Census cod	1397	7	29	31	123
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Skip,not working	6859	6393	7286	6975	6338
01.Agric/Forest/Fish/Huntin	111	108	128	80	57
02.Mining	14	17	29	18	14
03.Utilities	41	54	66	40	27
04.Construction	263	239	361	229	165
05.Manufacturing (continued	371	486	725	503	371
06.Wholesale Trade	123	161	218	145	106
07.Retail Trade	333	403	511	327	241
08.Transport/Warehousing	149	191	332	238	167
09.Information	63	74	98	65	49
10.Finance/Insurance	165	207	265	197	141
11.Real Estate/Rental/Leasi	141	154	194	141	104
12.Prof/Scientific/Tech Svc	219	260	351	258	198
13.Mgmt/Admin/Support/Wast	135	163	247	158	108
14.Educational Services	291	429	628	476	358
15.Health Care/Social Assis	413	556	892	613	429
16.Arts/Entertain/Recreatio	89	94	125	80	53
17.Accomodations/Food Svcs	119	156	214	151	108
18.Other Svcs/Except PubAdm	265	282	381	259	179
19.PubAdmin/Active Duty Mil	121	182	272	209	145



Value	R10JCINDC	R11JCINDC	R12JCINDC
.M=Oth missing	270	127	117
.P=From previous Census cod	2728	1943	1355
.W=Skip,not working	12970	12545	11825
01.Agric/Forest/Fish/Huntin	140	126	117
02.Mining	25	18	16
03.Utilities	56	43	35
04.Construction	392	369	332
05.Manufacturing (continued	647	622	574
06.Wholesale Trade	187	186	173
07.Retail Trade	492	489	464
08.Transport/Warehousing	322	313	284
09.Information	93	77	77
10.Finance/Insurance	234	240	208
11.Real Estate/Rental/Leasi	206	206	184
12.Prof/Scientific/Tech Svc	375	361	331
13.Mgmnt/Admin/Support/Wast	301	282	275
14.Educational Services	491	506	467
15.Health Care/Social Assis	996	990	926
16.Arts/Entertain/Recreatio	131	128	115
17.Accomodations/Food Svcs	234	257	217
18.Other Svcs/Except PubAdm	491	487	443
19.PubAdmin/Active Duty Mil	253	239	212

Value	S10JCINDC	S11JCINDC	S12JCINDC
.M=Oth missing	161	55	61
.P=From previous Census cod	1935	1376	944
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
.W=Skip,not working	7286	6975	6338
01.Agric/Forest/Fish/Huntin	113	101	97
02.Mining	20	12	13
03.Utilities	42	35	29
04.Construction	298	282	243
05.Manufacturing (continued	482	462	415
06.Wholesale Trade	135	134	128
07.Retail Trade	341	323	310
08.Transport/Warehousing	229	239	199
09.Information	59	53	54
10.Finance/Insurance	178	174	149
11.Real Estate/Rental/Leasi	152	149	131
12.Prof/Scientific/Tech Svc	276	268	252
13.Mgmnt/Admin/Support/Wast	197	191	177
14.Educational Services	339	347	309
15.Health Care/Social Assis	582	589	560
16.Arts/Entertain/Recreatio	92	82	64
17.Accomodations/Food Svcs	149	175	148
18.Other Svcs/Except PubAdm	292	313	274
19.PubAdmin/Active Duty Mil	155	153	132

## How Constructed

RwJCIND is the industry of the Respondent's current job in Wave 'w.' RwJCINDB is the Respondent's current job industry based on the 2002 Census industries used beginning in Wave 8. RwJCINDC is the Respondent's current job industry based on the 2007 Census industries used beginning in Wave 10.

The current job industry is usually taken from the interview when the job was first reported. It is carried forward if the Respondent continues working at the same job and position. If the Respondent is self-employed and reports a new industry, then the current interview values are used.

In Waves 2A and 3A, industry information is NOT collected for any job. So for the AHEAD Respondents, R2JCIND and R3JCIND are set to the .Q SAS special missing value, to indicate that no information is available.

From Wave 7-10, HRS begins using a different set of industry codes, based on the 2002 Census. Before Wave 7 there are 13 possible industry codes; from Wave 7-10, there are 19 codes. RwJCINDB begins with R7JCINDB and provides the new code set. In Wave 7 only, we have both sets of codes stored in R7JCIND and R7JCINDB.

If this question is not asked in Wave 7 because the Respondent has not changed jobs or job title, then R7JCINDB is set to .P, for industry taken from prior wave and R7JCIND provides the 1980 Census-based industry. If R7JCINDB is provided but the Respondent did not change jobs, s/he may have values for both R7JCIND and R7JCINDB. If the Respondent started a new job in Wave 7, then R7JCIND is set to .B, to indicate that the industry code for the current job is taken from Wave 7 when the HRS begins to use the 2002 Census industries, which R7JCINDB provides.

Beginning in Wave 10, HRS begins using a different set of industry codes, based on the 2007 Census. The number of industry codes remains 19. RwJCINDC begins with R10JCINDC and provides the new code set. In Wave 10 only, we have both sets of codes stored in R10JCINDB and R10JCINDC.

If this question is not asked in Wave 10 because the Respondent has not changed jobs or job title, then R10JCINDC is set to .P, for industry taken from prior wave and R10JCINDB provides the 2002 Census-based industry. If R10JCINDC is provided but the Respondent did not change jobs, s/he may have values for both R10JCINDB and R10JCINDC. If the Respondent started a new job in Wave 10, then R10JCIND and R10JCINDB are set to .B, to indicate that the industry code for the current job is taken from Wave 10 when the HRS begins to use the 2007 Census industries, which R10JCINDC provides.

If the Respondent is not working, this variable is set to a .W missing code.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJCIND, RwJCINDB and RwJCINDC.

### **Cross Wave Differences in Original HRS Data**

Each interview obtains the Respondent's current work status. At the Respondent's first interview questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same. Note that in Waves 2A and 3A, industry information is NOT collected for any job.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

Before Wave 7, the industry codes are based on those used in the 1980 Census, assigned to one of 13 categories. From Wave 7-10, they are based on 2002 Census industries, assigned to one of 19 categories. Beginning in Wave 10, they are based on 2007 Census industries, assigned to one of 19 categories.

**HRS Variables Used**

HRS 1992:	
V2719	F4:IND:1980 CENSUS IND
V2820	F26:IND:1980 CENSUS IND
HRS 1994:	
W3608	FA41a.INDUSTRY
W4312A	FB15.INDUSTRY
HRS 1996:	
E2730M	G41A/G42. IND
HRS 1998:	
F3253M	G41A.IND - MASKED
HRS 2000:	
G3503M	G41A.IND - MASKED
HRS 2002:	
HJ166M	WORK IN WHAT INDUSTRY - MASKED
HRS 2004:	
JJ166M	WORK IN WHAT INDUSTRY - MASKED
JJ166M_00	WORK IN WHAT INDUSTRY 2000 Census-MASKED
HRS 2006:	
KJ166M	WORK IN WHAT INDUSTRY-MASKED
HRS 2008:	
LJ166M	WORK IN WHAT INDUSTRY-MASKED
HRS 2010:	
MJ166M	WORK IN WHAT INDUSTRY-MASKED
MJ166M_10	WORK IN WHAT INDUSTRY 2007 Census-MASKED
HRS 2012:	
NJ166M	WORK IN WHAT INDUSTRY-MASKED
HRS 2014:	
OJ166M	WORK IN WHAT INDUSTRY-MASKED

### Respondent belongs to a Union

Wave	Variable	Label	Type
1	R1UNION	R1UNION:W1 R is covered by a union	Categ
2	R2UNION	R2UNION:W2 R is covered by a union	Categ
3	R3UNION	R3UNION:W3 R is covered by a union	Categ
4	R4UNION	R4UNION:W4 R is covered by a union	Categ
5	R5UNION	R5UNION:W5 R is covered by a union	Categ
6	R6UNION	R6UNION:W6 R is covered by a union	Categ
7	R7UNION	R7UNION:W7 R is covered by a union	Categ
8	R8UNION	R8UNION:W8 R is covered by a union	Categ
9	R9UNION	R9UNION:W9 R is covered by a union	Categ
10	R10UNION	R10UNION:W10 R is covered by a union	Categ
11	R11UNION	R11UNION:W11 R is covered by a union	Categ
12	R12UNION	R12UNION:W12 R is covered by a union	Categ
1	S1UNION	S1UNION:W1 S is covered by a union	Categ
2	S2UNION	S2UNION:W2 S is covered by a union	Categ
3	S3UNION	S3UNION:W3 S is covered by a union	Categ
4	S4UNION	S4UNION:W4 S is covered by a union	Categ
5	S5UNION	S5UNION:W5 S is covered by a union	Categ
6	S6UNION	S6UNION:W6 S is covered by a union	Categ
7	S7UNION	S7UNION:W7 S is covered by a union	Categ
8	S8UNION	S8UNION:W8 S is covered by a union	Categ
9	S9UNION	S9UNION:W9 S is covered by a union	Categ
10	S10UNION	S10UNION:W10 S is covered by a union	Categ
11	S11UNION	S11UNION:W11 S is covered by a union	Categ
12	S12UNION	S12UNION:W12 S is covered by a union	Categ
2	R2UNIONF	R2UNIONF:W2 Carried forward value from prev wave	Categ
3	R3UNIONF	R3UNIONF:W3 Carried forward value from prev wave	Categ
4	R4UNIONF	R4UNIONF:W4 Carried forward value from prev wave	Categ
5	R5UNIONF	R5UNIONF:W5 Carried forward value from prev wave	Categ
6	R6UNIONF	R6UNIONF:W6 Carried forward value from prev wave	Categ
7	R7UNIONF	R7UNIONF:W7 Carried forward value from prev wave	Categ
8	R8UNIONF	R8UNIONF:W8 Carried forward value from prev wave	Categ
9	R9UNIONF	R9UNIONF:W9 Carried forward value from prev wave	Categ
10	R10UNIONF	R10UNIONF:W10 Carried forward value from prev wave	Categ
11	R11UNIONF	R11UNIONF:W11 Carried forward value from prev wave	Categ
12	R12UNIONF	R12UNIONF:W12 Carried forward value from prev wave	Categ
2	S2UNIONF	S2UNIONF:W2 Carried forward value from prev wave	Categ
3	S3UNIONF	S3UNIONF:W3 Carried forward value from prev wave	Categ
4	S4UNIONF	S4UNIONF:W4 Carried forward value from prev wave	Categ
5	S5UNIONF	S5UNIONF:W5 Carried forward value from prev wave	Categ
6	S6UNIONF	S6UNIONF:W6 Carried forward value from prev wave	Categ
7	S7UNIONF	S7UNIONF:W7 Carried forward value from prev wave	Categ
8	S8UNIONF	S8UNIONF:W8 Carried forward value from prev wave	Categ
9	S9UNIONF	S9UNIONF:W9 Carried forward value from prev wave	Categ
10	S10UNIONF	S10UNIONF:W10 Carried forward value from prev wave	Categ
11	S11UNIONF	S11UNIONF:W11 Carried forward value from prev wave	Categ
12	S12UNIONF	S12UNIONF:W12 Carried forward value from prev wave	Categ

### Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1UNION	8340	0.21	0.41	0.0	1.0
R2UNION	7017	0.20	0.40	0.0	1.0
R3UNION	6410	0.17	0.38	0.0	1.0
R4UNION	7438	0.18	0.39	0.0	1.0
R5UNION	6552	0.17	0.38	0.0	1.0
R6UNION	6036	0.14	0.35	0.0	1.0

R7UNION	7125	0.16	0.37	0.0	1.0
R8UNION	5966	0.14	0.35	0.0	1.0
R9UNION	5200	0.14	0.35	0.0	1.0
R10UNION	7621	0.17	0.38	0.0	1.0
R11UNION	6794	0.17	0.37	0.0	1.0
R12UNION	5857	0.16	0.37	0.0	1.0
S1UNION	6571	0.21	0.40	0.0	1.0
S2UNION	5480	0.19	0.39	0.0	1.0
S3UNION	4915	0.17	0.37	0.0	1.0
S4UNION	5542	0.18	0.38	0.0	1.0
S5UNION	4881	0.17	0.38	0.0	1.0
S6UNION	4486	0.14	0.35	0.0	1.0
S7UNION	5219	0.16	0.36	0.0	1.0
S8UNION	4355	0.14	0.34	0.0	1.0
S9UNION	3756	0.14	0.34	0.0	1.0
S10UNION	5234	0.16	0.37	0.0	1.0
S11UNION	4660	0.16	0.37	0.0	1.0
S12UNION	3950	0.16	0.36	0.0	1.0
R2UNIONF	19642	0.19	0.40	0.0	1.0
R3UNIONF	17991	0.19	0.39	0.0	1.0
R4UNIONF	21384	0.17	0.37	0.0	1.0
R5UNIONF	19579	0.05	0.21	0.0	1.0
R6UNIONF	18165	0.15	0.36	0.0	1.0
R7UNIONF	20129	0.19	0.39	0.0	1.0
R8UNIONF	18469	0.15	0.36	0.0	1.0
R9UNIONF	17217	0.05	0.21	0.0	1.0
R10UNIONF	22034	0.15	0.35	0.0	1.0
R11UNIONF	20554	0.24	0.43	0.0	1.0
R12UNIONF	18747	0.23	0.42	0.0	1.0
S2UNIONF	13088	0.23	0.42	0.0	1.0
S3UNIONF	11915	0.21	0.41	0.0	1.0
S4UNIONF	13978	0.19	0.39	0.0	1.0
S5UNIONF	12730	0.06	0.23	0.0	1.0
S6UNIONF	11639	0.17	0.37	0.0	1.0
S7UNIONF	12972	0.22	0.41	0.0	1.0
S8UNIONF	11735	0.18	0.38	0.0	1.0
S9UNIONF	10646	0.06	0.24	0.0	1.0
S10UNIONF	13513	0.17	0.38	0.0	1.0
S11UNIONF	12488	0.28	0.45	0.0	1.0
S12UNIONF	11027	0.27	0.44	0.0	1.0

**Categorical Variable Codes**

Value	R1UNION	R2UNION	R3UNION	R4UNION	R5UNION	R6UNION	R7UNION
.D=DK	5	10	7	12	22	6	17
.E=Self-employed			1	689	602		650
.M=Oth missing		15	393	255	24	8	40
.Q=Not asked this wv		8222					
.R=RF	25	2	6	4	3	12	9
.W=Not working	4282	4376	11174	12986	12376	12103	12288
0.No	6560	5641	5310	6075	5422	5161	5985
1.Yes	1780	1376	1100	1363	1130	875	1140

Value	R8UNION	R9UNION	R10UNION	R11UNION	R12UNION
.D=DK	13	14	22	13	15
.E=Self-employed	605	620	1139	1040	918
.M=Oth missing	58	38	72	107	90
.R=RF		6	2	3	3
.W=Not working	11827	11339	13178	12597	11864
0.No	5112	4450	6293	5651	4900
1.Yes	854	750	1328	1143	957

Value	S1UNION	S2UNION	S3UNION	S4UNION	S5UNION	S6UNION	S7UNION
.D=DK	5	7	6	9	20	3	12
.E=Self-employed			1	510	459		499
.M=Oth missing		12	249	173	18	8	28
.Q=Not asked this wv		4549					
.R=RF	19	1	2	3	2	10	5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	384	418	537	311	220	380
.W=Not working	3305	3239	6742	7741	7350	7132	7209
0.No	5215	4445	4094	4566	4043	3865	4397
1.Yes	1356	1035	821	976	838	621	822

Value	S8UNION	S9UNION	S10UNION	S11UNION	S12UNION
.D=DK	7	7	9	9	7
.E=Self-employed	468	457	818	760	664
.M=Oth missing	43	21	46	67	51
.R=RF		3	1	1	2
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
.W=Not working	6862	6402	7405	6991	6353
0.No	3757	3245	4376	3916	3337
1.Yes	598	511	858	744	613

Value		R2UNIONF	R3UNIONF	R4UNIONF	R5UNIONF	R6UNIONF	R7UNIONF
0.Value not carried forward		15815	14660	17846	18645	15471	16325
1.Value from prev wv carrie		3827	3331	3538	934	2694	3804
Value		R8UNIONF	R9UNIONF	R10UNIONF	R11UNIONF	R12UNIONF	
0.Value not carried forward		15661	16396	18797	15544	14381	
1.Value from prev wv carrie		2808	821	3237	5010	4366	
Value		S2UNIONF	S3UNIONF	S4UNIONF	S5UNIONF	S6UNIONF	S7UNIONF
.U=Unmarried		5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.Value not carried forward		10122	9375	11297	11995	9680	10134
1.Value from prev wv carrie		2966	2540	2681	735	1959	2838
Value		S8UNIONF	S9UNIONF	S10UNIONF	S11UNIONF	S12UNIONF	
.U=Unmarried		6417	6206	7799	7474	7127	
.V=Spouse NR		317	365	722	592	593	
0.Value not carried forward		9634	10013	11198	9018	8067	
1.Value from prev wv carrie		2101	633	2315	3470	2960	

## How Constructed

RwUNION indicates whether the Respondent is covered by a union or employee-association contract, and RwUNIONF provides additional detail about the source of information for RwUNION. SwUNION and SwUNIONF provide the information for the Respondent's spouse or partner.

The question is the same in all waves: "Are you covered by a union or employee-association contract?" If the Respondent is not asked this question, is still working for the same employer, and has not changed job title, then her/his previous wave response is carried forward. These skip patterns do differ slightly across waves, so please read the Cross Wave Differences section below.

RwUNION is set to "1" if the Respondent reports being covered by a union. RwUNION is set to "0" if the Respondent is not covered by a union. RwUNION is set to .D for "Don't Know" and .R for "Refused" if the Respondent does not know or does not answer. It is set to .W if skipped because the Respondent has no current job, and set to .E if the question was skipped because the Respondent is self-employed. In the earlier waves, self-employed Respondents are asked this question, but in later waves they skip the union question. Again, please refer to the Cross Wave Differences section for a full explanation. If a value has been carried forward from a previous wave, then RwUNIONF is set to "1." If the value has been obtained from the current wave then RwUNIONF=0. If the Respondent reports being self-employed in the previous wave but is not self-employed in the current wave, we do not carry forward the special missing value (.E). Instead, we set RwUNIONF=2 and RwUNION=.M:Missing.

SwUNION and SwUNIONF information is taken from the spouse's self-reported RwUNION and RwUNIONF variables, if available. If the Respondent is not married, SwUNION and SwUNIONF are set to .U=unmarried. If the Respondent's spouse did not respond, then SwUNION and SwUNIONF are set to .V=Spouse is non-response.

Because this question is not asked in Wave 2A, the variables are set to .Q.

## Cross Wave Differences in Original HRS Data

The question is the same in all waves, "Are you covered by a union or employee-association contract?" In Wave 1, the question is asked of all Respondents, whether or not they are self-employed.

In Wave 2H, we carry forward the Wave 1 response for anyone who did not respond in Wave 2H, but who had the same employer as Wave 1, and whose job title did not change.

This question was not asked in Wave 2A.

From Wave 3H onward, we carry forward the previous response, once it is established that the Respondent's employer has not changed and her/his job title has not changed. We do not carry forward the special missing value (.Q) for when the question was not asked in the survey.

From Wave 7 onward, Respondents that report being self-employed skip this question. But if the self-employed Respondents have answered the question in a previous wave, then we do carry the value forward. For those who are self-employed and have never been asked the question, we assign the special missing value of .E.

## HRS Variables Used

HRS 1992:	
V2721	F7:YR STARTD THIS KN WRK
V2819	F25:UNION CONTRACT
V2837	F35:UNION COVERAGE
HRS 1994:	
W3458	FA19.STILL WORKING FOR W
W3502	FA21.SAME JOB TITLE AS W
W3709	FA62.UNION/EMPLOYEE-ASSO
W4374	FB25.UNION/EMPLOYEE-ASSO
AHEAD 1995:	
D3286	GB25. WHETHER UNIONIZED
HRS 1996:	
E2832	G66_.BRANCHPOINT
E2833	G66.UNION/EMPLOYEE-ASSOCIATION
HRS 1998:	
F3355	G66 BRANCHPOINT
F3356	G66.UNION/EMPLOYEE-ASSOCIATION
HRS 2000:	
G3615	G66Y1.G66 BRANCHPOINT
G3616	G66.UNION/EMPLOYEE-ASSOCIATION
HRS 2002:	
HJ265	J265 BRANCHPOINT
HJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2004:	
JJ265	J265 BRANCHPOINT
JJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2006:	
KJ265	J265 BRANCHPOINT
KJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2008:	
LJ045	STILL WORKING PREV EMPLOYER
LJ058	SAME JOB TITLE AS PREVIOUS WAVE
LJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2010:	
MJ045	STILL WORKING PREV EMPLOYER



MJ058	SAME JOB TITLE AS PREVIOUS WAVE
MJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2012:	
NJ045	STILL WORKING PREV EMPLOYER
NJ058	SAME JOB TITLE AS PREVIOUS WAVE
NJ266	UNION/EMPLOYEE-ASSOCIATION
HRS 2014:	
OJ045	STILL WORKING PREV EMPLOYER
OJ058	SAME JOB TITLE AS PREVIOUS WAVE
OJ266	UNION/EMPLOYEE-ASSOCIATION

<b>Firm Size</b>
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Wave	Variable	Label	Type
1	R1FSIZE	R1FSIZE:W1 Size of firm or business	Cont
2	R2FSIZE	R2FSIZE:W2 Size of firm or business	Cont
3	R3FSIZE	R3FSIZE:W3 Size of firm or business	Cont
4	R4FSIZE	R4FSIZE:W4 Size of firm or business	Cont
5	R5FSIZE	R5FSIZE:W5 Size of firm or business	Cont
6	R6FSIZE	R6FSIZE:W6 Size of firm or business	Cont
7	R7FSIZE	R7FSIZE:W7 Size of firm or business	Cont
8	R8FSIZE	R8FSIZE:W8 Size of firm or business	Cont
9	R9FSIZE	R9FSIZE:W9 Size of firm or business	Cont
10	R10FSIZE	R10FSIZE:W10 Size of firm or business	Cont
11	R11FSIZE	R11FSIZE:W11 Size of firm or business	Cont
12	R12FSIZE	R12FSIZE:W12 Size of firm or business	Cont
1	S1FSIZE	S1FSIZE:W1 Size of firm or business	Cont
2	S2FSIZE	S2FSIZE:W2 Size of firm or business	Cont
3	S3FSIZE	S3FSIZE:W3 Size of firm or business	Cont
4	S4FSIZE	S4FSIZE:W4 Size of firm or business	Cont
5	S5FSIZE	S5FSIZE:W5 Size of firm or business	Cont
6	S6FSIZE	S6FSIZE:W6 Size of firm or business	Cont
7	S7FSIZE	S7FSIZE:W7 Size of firm or business	Cont
8	S8FSIZE	S8FSIZE:W8 Size of firm or business	Cont
9	S9FSIZE	S9FSIZE:W9 Size of firm or business	Cont
10	S10FSIZE	S10FSIZE:W10 Size of firm or business	Cont
11	S11FSIZE	S11FSIZE:W11 Size of firm or business	Cont
12	S12FSIZE	S12FSIZE:W12 Size of firm or business	Cont
2	R2FSIZEF	R2FSIZEF:W2 Value carried forward from previous wave	Categ
3	R3FSIZEF	R3FSIZEF:W3 Value carried forward from previous wave	Categ
4	R4FSIZEF	R4FSIZEF:W4 Value carried forward from previous wave	Categ
5	R5FSIZEF	R5FSIZEF:W5 Value carried forward from previous wave	Categ
6	R6FSIZEF	R6FSIZEF:W6 Value carried forward from previous wave	Categ
7	R7FSIZEF	R7FSIZEF:W7 Value carried forward from previous wave	Categ
8	R8FSIZEF	R8FSIZEF:W8 Value carried forward from previous wave	Categ
9	R9FSIZEF	R9FSIZEF:W9 Value carried forward from previous wave	Categ
10	R10FSIZEF	R10FSIZEF:W10 Value carried forward from previous wave	Categ
11	R11FSIZEF	R11FSIZEF:W11 Value carried forward from previous wave	Categ
12	R12FSIZEF	R12FSIZEF:W12 Value carried forward from previous wave	Categ
2	S2FSIZEF	S2FSIZEF:W2 Value carried forward from previous wave	Categ
3	S3FSIZEF	S3FSIZEF:W3 Value carried forward from previous wave	Categ
4	S4FSIZEF	S4FSIZEF:W4 Value carried forward from previous wave	Categ
5	S5FSIZEF	S5FSIZEF:W5 Value carried forward from previous wave	Categ
6	S6FSIZEF	S6FSIZEF:W6 Value carried forward from previous wave	Categ
7	S7FSIZEF	S7FSIZEF:W7 Value carried forward from previous wave	Categ
8	S8FSIZEF	S8FSIZEF:W8 Value carried forward from previous wave	Categ
9	S9FSIZEF	S9FSIZEF:W9 Value carried forward from previous wave	Categ
10	S10FSIZEF	S10FSIZEF:W10 Value carried forward from previous wave	Categ
11	S11FSIZEF	S11FSIZEF:W11 Value carried forward from previous wave	Categ
12	S12FSIZEF	S12FSIZEF:W12 Value carried forward from previous wave	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1FSIZE	7150	408.68	1825.14	0.0	50000.0
R2FSIZE	6143	388.57	1828.58	1.0	50000.0
R3FSIZE	5116	367.75	1647.96	1.0	50000.0
R4FSIZE	7232	449.17	6022.64	0.0	450000.0
R5FSIZE	6187	406.71	6665.69	0.0	500000.0
R6FSIZE	5081	360.19	3421.12	0.0	200000.0

R7FSIZE	6733	382.18	6275.15	0.0	500000.0
R8FSIZE	5645	320.35	3042.22	0.0	200000.0
R9FSIZE	5213	402.14	5186.36	0.0	325000.0
R10FSIZE	7940	604.20	9739.48	0.0	500000.0
R11FSIZE	7110	515.93	8933.67	0.0	700000.0
R12FSIZE	6316	821.84	20525.96	0.0	1000000.0
S1FSIZE	5707	414.44	1939.12	0.0	50000.0
S2FSIZE	4850	391.29	1924.26	1.0	50000.0
S3FSIZE	3967	355.15	1709.16	1.0	50000.0
S4FSIZE	5448	456.58	6689.93	0.0	450000.0
S5FSIZE	4675	449.46	7634.03	0.0	500000.0
S6FSIZE	3817	312.95	1721.37	0.0	60000.0
S7FSIZE	5010	314.75	1597.05	0.0	60000.0
S8FSIZE	4204	344.77	3473.16	0.0	200000.0
S9FSIZE	3813	396.23	5641.20	0.0	325000.0
S10FSIZE	5542	623.18	9479.59	0.0	500000.0
S11FSIZE	4976	550.50	10561.72	0.0	700000.0
S12FSIZE	4343	761.25	19483.39	0.0	1000000.0
R2FSIZEF	19642	0.19	0.39	0.0	1.0
R3FSIZEF	17991	0.18	0.38	0.0	1.0
R4FSIZEF	21384	0.13	0.34	0.0	1.0
R5FSIZEF	19579	0.00	0.00	0.0	0.0
R6FSIZEF	18165	0.15	0.35	0.0	1.0
R7FSIZEF	20129	0.12	0.32	0.0	1.0
R8FSIZEF	18469	0.17	0.38	0.0	1.0
R9FSIZEF	17217	0.00	0.00	0.0	0.0
R10FSIZEF	22034	0.11	0.31	0.0	1.0
R11FSIZEF	20554	0.21	0.40	0.0	1.0
R12FSIZEF	18747	0.00	0.01	0.0	1.0
S2FSIZEF	13088	0.23	0.42	0.0	1.0
S3FSIZEF	11915	0.21	0.41	0.0	1.0
S4FSIZEF	13978	0.15	0.36	0.0	1.0
S5FSIZEF	12730	0.00	0.00	0.0	0.0
S6FSIZEF	11639	0.17	0.38	0.0	1.0
S7FSIZEF	12972	0.14	0.34	0.0	1.0
S8FSIZEF	11735	0.20	0.40	0.0	1.0
S9FSIZEF	10646	0.00	0.00	0.0	0.0
S10FSIZEF	13513	0.13	0.33	0.0	1.0
S11FSIZEF	12488	0.24	0.42	0.0	1.0
S12FSIZEF	11027	0.00	0.01	0.0	1.0

## Categorical Variable Codes

Value		R2FSIZEF	R3FSIZEF	R4FSIZEF	R5FSIZEF	R6FSIZEF	R7FSIZEF
0.Value not carried forward		15864	14747	18565	19579	15507	17723
1.Value from prev wv carrie		3778	3244	2819		2658	2406

Value		R8FSIZEF	R9FSIZEF	R10FSIZEF	R11FSIZEF	R12FSIZEF
0.Value not carried forward		15263	17217	19595	16318	18746
1.Value from prev wv carrie		3206		2439	4236	1

Value		S2FSIZEF	S3FSIZEF	S4FSIZEF	S5FSIZEF	S6FSIZEF	S7FSIZEF
.U=Unmarried		5970	5658	6869	6538	6306	6777
.V=Spouse NR		584	418	537	311	220	380
0.Value not carried forward		10131	9430	11871	12730	9662	11200
1.Value from prev wv carrie		2957	2485	2107		1977	1772

Value		S8FSIZEF	S9FSIZEF	S10FSIZEF	S11FSIZEF	S12FSIZEF
.U=Unmarried		6417	6206	7799	7474	7127
.V=Spouse NR		317	365	722	592	593
0.Value not carried forward		9372	10646	11779	9545	11026
1.Value from prev wv carrie		2363		1734	2943	1

## How Constructed

RwFSIZE indicates how many people work in the Respondent's place of business, and RwFSIZEF provides additional detail about the source of information for RwFSIZE. SwFSIZE and SwFSIZEF provide the information for the Respondent's spouse or partner.

The question is the same in all waves: if the Respondent is self-employed the question is, "Including yourself, how many people work in this business?" If the Respondent works for someone else the question is, "About how many employees work for this company or organization at the location where you work?" Note that we have not used the additional question "About how many employees work for this company or organization at all locations?" to code this variable. If the Respondent is not asked this question and has not changed employer then her/his previous wave response is carried forward. RwFSIZE is set to .D for "Don't Know" and .R for "Refused" if the Respondent does not know or does not answer. It is set to .W if skipped because the Respondent has no current job.

If a value has been carried forward from a previous wave, then RwFSIZEF is set to "1." If the value has been obtained from the current wave then RwFSIZEF is set to "0." We do not carry forward missing values such as .D or .R. Instead, we set these cases to RwFSIZE=.M for "Missing."

SwFSIZE and SwFSIZEF information is taken from the spouse's self-reported RwFSIZE and RwFSIZEF variables, if available. If the Respondent is not married, SwFSIZE and SwFSIZEF are set to .U for "Unmarried." If the Respondent's spouse did not respond, then SwFSIZE and SwFSIZEF are set to .V for "Spouse is non-response."

Because this question is not asked in Wave 2A, the variables are set to .Q.

## Cross Wave Differences in Original HRS Data

The question is the same in all waves: if the Respondent is self-employed the question is, "Including yourself, how many people work in this business?" If the Respondent works for someone else the question is, "About how many employees work for this company or organization at the location where you work?"

This question was not asked in Wave 2A.

From Wave 3H onward, we carry forward the previous response, once it is established that the Respondent's employer has not changed. We carry forward any value greater than 0. We do not carry forward any missing values.

In Wave 5 and 9, Respondents working for the same employer as the previous wave do get asked the firm size question. So for both these waves RwfSIZEF will be 0 as we do not need to carry any values forward.

In Wave 12 one respondent (HHIDPN=501112020) reports a firm size of 1,000,000. This respondent reports having the same employer since Wave 7 and in Wave 7, s/he reported a firm size of 1000. In Wave 8, the respondent did not know the firm size so we carried forward the Wave 7 value. It is the responsibility of the researcher to decide how to handle this reported value.

## HRS Variables Used

HRS 1992:	
V2812	F21:EMPLOYEES AT LOCAT
V2830	F32:SELF-EMP:# OF EMPLOY
HRS 1994:	
W3458	FA19.STILL WORKING FOR W
W3658	FA57.NUMBER EMPLOYEES AT
W4323	FB21a.NUMBER OF EMPLOYEE
HRS 1996:	
E2629	G3_.BRANCHPOINT
E2654	G19A.STILL WORKNG FOR PREV WAVE EMPLOYER
E2655	G19B.STILL WORKING PREV EMPLOYER
E2656	G19.CHECKPOINT
E2662	G21.SAME JOB TITLE AS PREVIOUS WAVE
E2765	G54.NUMBER OF EMPLOYEES IN BUSINESS
E2820	G61.NUMBER EMPLOYEES AT LOCATION
E2821	G61A.ESTIMATED NUMBER EMPLOYEES
E2822	G62.NUMBER EMPLOYEES AT ALL LOCATIONS
E2824	G62A.ESTIMATED NUMBER EMPLOYEES
HRS 1998:	
F3177	G19.CHECKPOINT
F3288	G54.NUMBER OF EMPLOYEES IN BUSINESS
F3343	G61.NUMBER EMPLOYEES AT LOCATION
HRS 2000:	
G3432	G21.SAME JOB TITLE AS PREVIOUS WAVE
G3548	G54.NUMBER OF EMPLOYEES IN BUSINESS
G3603	G61.NUMBER EMPLOYEES AT LOCATION
HRS 2002:	
HJ058	SAME JOB TITLE AS PREVIOUS WAVE
HJ201	# EMPLOYEES IN BUSINESS
HJ244	# EMPLOYEES AT LOCATION
HRS 2004:	
JJ058	SAME JOB TITLE AS PREVIOUS WAVE
JJ201	# EMPLOYEES IN BUSINESS
JJ244	# EMPLOYEES AT LOCATION

HRS 2006:  
KJ058 SAME JOB TITLE AS PREVIOUS WAVE  
KJ201 # EMPLOYEES IN BUSINESS  
KJ244 NUMBER OF EMPLOYEES AT LOCATION  
HRS 2008:  
LJ058 SAME JOB TITLE AS PREVIOUS WAVE  
LJ201 # EMPLOYEES IN BUSINESS  
LJ244 NUMBER OF EMPLOYEES AT LOCATION  
HRS 2010:  
MJ058 SAME JOB TITLE AS PREVIOUS WAVE  
MJ201 # EMPLOYEES IN BUSINESS  
MJ244 NUMBER OF EMPLOYEES AT LOCATION  
HRS 2012:  
NJ058 SAME JOB TITLE AS PREVIOUS WAVE  
NJ201 # EMPLOYEES IN BUSINESS  
NJ244 NUMBER OF EMPLOYEES AT LOCATION  
HRS 2014:  
OJ058 SAME JOB TITLE AS PREVIOUS WAVE  
OJ201 # EMPLOYEES IN BUSINESS  
OJ244 NUMBER OF EMPLOYEES AT LOCATION

### Years of tenure at longest reported job

Wave	Variable	Label	Type
1	R1JLTEN	R1JLTEN:W1 Longest Job Tenure	Cont
2	R2JLTEN	R2JLTEN:W2 Longest Job Tenure	Cont
3	R3JLTEN	R3JLTEN:W3 Longest Job Tenure	Cont
4	R4JLTEN	R4JLTEN:W4 Longest Job Tenure	Cont
5	R5JLTEN	R5JLTEN:W5 Longest Job Tenure	Cont
6	R6JLTEN	R6JLTEN:W6 Longest Job Tenure	Cont
7	R7JLTEN	R7JLTEN:W7 Longest Job Tenure	Cont
8	R8JLTEN	R8JLTEN:W8 Longest Job Tenure	Cont
9	R9JLTEN	R9JLTEN:W9 Longest Job Tenure	Cont
10	R10JLTEN	R10JLTEN:W10 Longest Job Tenure	Cont
11	R11JLTEN	R11JLTEN:W11 Longest Job Tenure	Cont
12	R12JLTEN	R12JLTEN:W12 Longest Job Tenure	Cont
1	S1JLTEN	S1JLTEN:W1 Longest Job Tenure	Cont
2	S2JLTEN	S2JLTEN:W2 Longest Job Tenure	Cont
3	S3JLTEN	S3JLTEN:W3 Longest Job Tenure	Cont
4	S4JLTEN	S4JLTEN:W4 Longest Job Tenure	Cont
5	S5JLTEN	S5JLTEN:W5 Longest Job Tenure	Cont
6	S6JLTEN	S6JLTEN:W6 Longest Job Tenure	Cont
7	S7JLTEN	S7JLTEN:W7 Longest Job Tenure	Cont
8	S8JLTEN	S8JLTEN:W8 Longest Job Tenure	Cont
9	S9JLTEN	S9JLTEN:W9 Longest Job Tenure	Cont
10	S10JLTEN	S10JLTEN:W10 Longest Job Tenure	Cont
11	S11JLTEN	S11JLTEN:W11 Longest Job Tenure	Cont
12	S12JLTEN	S12JLTEN:W12 Longest Job Tenure	Cont
1	R1JLMIS	R1JLMIS:W1 Longest Job # Jobs date=miss	Cont
2	R2JLMIS	R2JLMIS:W2 Longest Job # Jobs date=miss	Cont
3	R3JLMIS	R3JLMIS:W3 Longest Job # Jobs date=miss	Cont
4	R4JLMIS	R4JLMIS:W4 Longest Job # Jobs date=miss	Cont
5	R5JLMIS	R5JLMIS:W5 Longest Job # Jobs date=miss	Cont
6	R6JLMIS	R6JLMIS:W6 Longest Job # Jobs date=miss	Cont
7	R7JLMIS	R7JLMIS:W7 Longest Job # Jobs date=miss	Cont
8	R8JLMIS	R8JLMIS:W8 Longest Job # Jobs date=miss	Cont
9	R9JLMIS	R9JLMIS:W9 Longest Job # Jobs date=miss	Cont
10	R10JLMIS	R10JLMIS:W10 Longest Job # Jobs date=miss	Cont
11	R11JLMIS	R11JLMIS:W11 Longest Job # Jobs date=miss	Cont
12	R12JLMIS	R12JLMIS:W12 Longest Job # Jobs date=miss	Cont
1	S1JLMIS	S1JLMIS:W1 Longest Job # Jobs date=miss	Cont
2	S2JLMIS	S2JLMIS:W2 Longest Job # Jobs date=miss	Cont
3	S3JLMIS	S3JLMIS:W3 Longest Job # Jobs date=miss	Cont
4	S4JLMIS	S4JLMIS:W4 Longest Job # Jobs date=miss	Cont
5	S5JLMIS	S5JLMIS:W5 Longest Job # Jobs date=miss	Cont
6	S6JLMIS	S6JLMIS:W6 Longest Job # Jobs date=miss	Cont
7	S7JLMIS	S7JLMIS:W7 Longest Job # Jobs date=miss	Cont
8	S8JLMIS	S8JLMIS:W8 Longest Job # Jobs date=miss	Cont
9	S9JLMIS	S9JLMIS:W9 Longest Job # Jobs date=miss	Cont
10	S10JLMIS	S10JLMIS:W10 Longest Job # Jobs date=miss	Cont
11	S11JLMIS	S11JLMIS:W11 Longest Job # Jobs date=miss	Cont
12	S12JLMIS	S12JLMIS:W12 Longest Job # Jobs date=miss	Cont
1	R1JLTENF	R1JLTENF:W1 Long Job Tenure/fill in flag	Categ
2	R2JLTENF	R2JLTENF:W2 Long Job Tenure/fill in flag	Categ
3	R3JLTENF	R3JLTENF:W3 Long Job Tenure/fill in flag	Categ
4	R4JLTENF	R4JLTENF:W4 Long Job Tenure/fill in flag	Categ
5	R5JLTENF	R5JLTENF:W5 Long Job Tenure/fill in flag	Categ
6	R6JLTENF	R6JLTENF:W6 Long Job Tenure/fill in flag	Categ
7	R7JLTENF	R7JLTENF:W7 Long Job Tenure/fill in flag	Categ
8	R8JLTENF	R8JLTENF:W8 Long Job Tenure/fill in flag	Categ
9	R9JLTENF	R9JLTENF:W9 Long Job Tenure/fill in flag	Categ
10	R10JLTENF	R10JLTENF:W10 Long Job Tenure/fill in flag	Categ
11	R11JLTENF	R11JLTENF:W11 Long Job Tenure/fill in flag	Categ
12	R12JLTENF	R12JLTENF:W12 Long Job Tenure/fill in flag	Categ
1	S1JLTENF	S1JLTENF:W1 Long Job Tenure/fill in flag	Categ

2	S2JLTENF	S2JLTENF:W2 Long Job Tenure/fill in flag	Categ
3	S3JLTENF	S3JLTENF:W3 Long Job Tenure/fill in flag	Categ
4	S4JLTENF	S4JLTENF:W4 Long Job Tenure/fill in flag	Categ
5	S5JLTENF	S5JLTENF:W5 Long Job Tenure/fill in flag	Categ
6	S6JLTENF	S6JLTENF:W6 Long Job Tenure/fill in flag	Categ
7	S7JLTENF	S7JLTENF:W7 Long Job Tenure/fill in flag	Categ
8	S8JLTENF	S8JLTENF:W8 Long Job Tenure/fill in flag	Categ
9	S9JLTENF	S9JLTENF:W9 Long Job Tenure/fill in flag	Categ
10	S10JLTENF	S10JLTENF:W10 Long Job Tenure/fill in flag	Categ
11	S11JLTENF	S11JLTENF:W11 Long Job Tenure/fill in flag	Categ
12	S12JLTENF	S12JLTENF:W12 Long Job Tenure/fill in flag	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLTEN	11591	16.50	10.38	0.0	55.9
R2JLTEN	16149	19.92	11.83	0.0	70.8
R3JLTEN	14977	20.09	11.86	0.0	72.5
R4JLTEN	18252	19.65	11.83	0.0	72.5
R5JLTEN	16861	19.80	11.83	0.0	73.0
R6JLTEN	15827	20.00	11.83	0.0	75.0
R7JLTEN	17934	18.96	11.60	0.0	75.0
R8JLTEN	16595	19.23	11.62	0.0	75.0
R9JLTEN	15594	19.32	11.52	0.0	75.0
R10JLTEN	19925	17.96	11.31	0.0	71.0
R11JLTEN	18866	18.08	11.33	0.0	72.2
R12JLTEN	17321	18.20	11.30	0.0	71.8
S1JLTEN	9129	16.84	10.46	0.0	55.9
S2JLTEN	11333	19.89	11.77	0.0	70.0
S3JLTEN	10417	20.18	11.85	0.0	70.5
S4JLTEN	12451	19.72	11.82	0.0	72.5
S5JLTEN	11442	19.94	11.82	0.0	73.0
S6JLTEN	10553	20.23	11.87	0.0	75.0
S7JLTEN	11974	19.18	11.63	0.0	75.0
S8JLTEN	10903	19.42	11.64	0.0	69.6
S9JLTEN	9960	19.63	11.57	0.0	70.7
S10JLTEN	12549	18.26	11.32	0.0	71.0
S11JLTEN	11730	18.41	11.32	0.0	72.2
S12JLTEN	10400	18.54	11.28	0.0	71.8
R1JLMIS	12652	0.07	0.27	0.0	3.0
R2JLMIS	19642	0.27	0.49	0.0	3.0
R3JLMIS	17991	0.29	0.51	0.0	4.0
R4JLMIS	21384	0.30	0.52	0.0	5.0
R5JLMIS	19579	0.30	0.53	0.0	6.0
R6JLMIS	18165	0.30	0.55	0.0	7.0
R7JLMIS	20129	0.25	0.53	0.0	7.0
R8JLMIS	18469	0.25	0.56	0.0	8.0
R9JLMIS	17217	0.24	0.57	0.0	9.0
R10JLMIS	22034	0.18	0.51	0.0	10.0
R11JLMIS	20554	0.18	0.53	0.0	11.0
R12JLMIS	18747	0.18	0.56	0.0	11.0
S1JLMIS	9900	0.07	0.27	0.0	3.0
S2JLMIS	13088	0.24	0.47	0.0	3.0
S3JLMIS	11915	0.25	0.49	0.0	4.0



S4JLMIS	13978	0.25	0.50	0.0	5.0
S5JLMIS	12730	0.25	0.51	0.0	6.0
S6JLMIS	11639	0.24	0.53	0.0	7.0
S7JLMIS	12972	0.20	0.51	0.0	7.0
S8JLMIS	11735	0.20	0.52	0.0	8.0
S9JLMIS	10646	0.20	0.54	0.0	9.0
S10JLMIS	13513	0.15	0.48	0.0	10.0
S11JLMIS	12488	0.15	0.50	0.0	11.0
S12JLMIS	11027	0.15	0.53	0.0	11.0
R1JLTENF	109	0.69	0.92	0.0	2.0
R2JLTENF	8222	0.60	0.67	0.0	2.0
R3JLTENF	17991	0.23	0.53	0.0	2.0
R4JLTENF	21384	0.16	0.47	0.0	2.0
R5JLTENF	19579	0.15	0.45	0.0	2.0
R6JLTENF	18165	0.13	0.43	0.0	2.0
R7JLTENF	20129	0.10	0.37	0.0	2.0
R8JLTENF	18469	0.08	0.34	0.0	2.0
R9JLTENF	17217	0.07	0.32	0.0	2.0
R10JLTENF	22034	0.04	0.24	0.0	2.0
R11JLTENF	20554	0.03	0.21	0.0	2.0
R12JLTENF	18747	0.02	0.18	0.0	2.0
S1JLTENF	108	0.69	0.92	0.0	2.0
S2JLTENF	4349	0.65	0.70	0.0	2.0
S3JLTENF	11915	0.19	0.50	0.0	2.0
S4JLTENF	13978	0.13	0.43	0.0	2.0
S5JLTENF	12730	0.11	0.40	0.0	2.0
S6JLTENF	11639	0.09	0.36	0.0	2.0
S7JLTENF	12972	0.06	0.30	0.0	2.0
S8JLTENF	11735	0.04	0.26	0.0	2.0
S9JLTENF	10646	0.03	0.22	0.0	2.0
S10JLTENF	13513	0.01	0.15	0.0	2.0
S11JLTENF	12488	0.01	0.12	0.0	2.0
S12JLTENF	11027	0.00	0.09	0.0	2.0

## Categorical Variable Codes

Value	R1JLTENF	R2JLTENF	R3JLTENF	R4JLTENF	R5JLTENF	R6JLTENF	R7JLTENF
.M=Oth missing	12543						
.Q=Not needed this wv		11420					
0.No w2a info used	68	4146	14654	18760	17429	16423	18745
1.Used b1235,tenure missing	7	3209	2468	1732	1398	1096	853
2.Used b1235,took max	34	867	869	892	752	646	531

Value	R8JLTENF	R9JLTENF	R10JLTENF	R11JLTENF	R12JLTENF
0.No w2a info used	17420	16400	21493	20157	18477
1.Used b1235,tenure missing	627	472	306	223	157
2.Used b1235,took max	422	345	235	174	113

Value	S1JLTENF	S2JLTENF	S3JLTENF	S4JLTENF	S5JLTENF	S6JLTENF	S7JLTENF
.M=Oth missing	9792						
.Q=Not needed this wv		9123					
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	200	418	537	311	220	380
0.No w2a info used	67	2117	10150	12712	11781	10941	12458
1.Used b1235,tenure missing	7	1655	1212	749	548	385	283
2.Used b1235,took max	34	577	553	517	401	313	231

Value	S8JLTENF	S9JLTENF	S10JLTENF	S11JLTENF	S12JLTENF
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No w2a info used	11401	10422	13388	12409	10988
1.Used b1235,tenure missing	182	119	62	45	23
2.Used b1235,took max	152	105	63	34	16

## How Constructed

RwJLTEN is the Respondent's years of tenure on the longest-held job reported as of Wave 'w'. RwJLMIS counts the number of jobs that are examined in the derivation where the tenure cannot be determined because of missing dates.

SwJLTEN and SwJLMIS provide this information for the Respondent's spouse or partner.

The years of tenure at the longest reported job is derived using all reported jobs. Reported jobs include those at which a Respondent is working at any interview and those reported in the retrospective job history.

Except for the AHEAD entry cohort, a Respondent is asked about past jobs retrospectively at her/his first interview. If the Respondent is not working, information about the last job is collected. Whether working or not, questions are asked about up to three additional jobs lasting five or more years. These job history questions were not asked in Waves 2A or 3A. For those in the AHEAD entry cohort, job history information was collected at Wave 4.

Longest job tenure is determined by comparing the tenures derived from jobs given in the retrospective job history, current job tenures from current and previous interviews, and tenure on any job that ended between interviews up to the current, to determine the longest non-missing tenure. In Waves 2A and 3A, jobs reported in job history were collected in Wave 4, so their dates are compared to interview dates to determine whether or how long they lasted before the 2A or 3A interview.

In Wave 2A there is a question asked of some Respondents about the total years at the longest held job. If, after processing the current job and job history, R2JLTEN is less than the answer to this direct question, the direct question is

used to set R2JLTEN, and the occupation associated with this job is used for R2JLOCCA. J2JLTENF is set to indicate if this replacement was done.

Since tenure at the longest-held job based on job history can not be modified using Wave 2A data, RwJLTENF is set to .Q for all Respondents who are not part of the AHEAD entry cohort to indicate that it is inapplicable for those cases.

RwJLMIS is a count of reported jobs that are missing dates; it does not count jobs for which dates are never asked. For example, if the Respondent reports having 7 jobs lasting 5 or more years in job history questions, no information will be asked about at least 4 of those jobs, because questions ask about at most 3 job start and stop dates. These 4 jobs will be missing job dates but are not counted in RwJLMIS. RwJLMIS counts only those jobs about which the Respondent is asked but failed to provide start or stop date information. Please see also 'Job History Status' later in this section.

Job start and stop dates are reported as month and year or just year. If the month is missing or not asked, July is used as the month. To help fill in job stop dates, the months and years given for retirement, disability, unemployment, and temporary layoff are also examined. These dates are asked when the Respondent reports the applicable employment status. If any reported job year is before the Respondent turned age 15, then it is set to the year the Respondent turned 15 instead.

The spouse variable is taken from the wave "w" spouse's self-report, e.g., S3JLTEN is taken from the Wave 3 spouse's R3JLTEN.

## Cross Wave Differences in Original HRS Data

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. If the last job ended more than 20 years ago, the amount of information gathered is very limited. Otherwise, questions ask about the starting date, occupation, and industry of the last job. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

"Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?"

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working but has worked during the last two years, information about that last job is collected, including start and stop dates and occupation. Industry of the last job is not available. In addition, most people are asked if they ever worked for ten or more years. If so they are then asked if they worked for one employer for ten or more years, and if so, the occupation and number of years at the longest held job are collected. If not, another question asks the total years worked for pay.

Each interview obtains the Respondent's current work status. At the Respondent's first interview questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same. Note that in Waves 2A and 3A, industry information is NOT collected for any job.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

## HRS Variables Used

### HRS 1992:

V12717	F2:ANY WRK FOR PAY :IND
V12718	F3:WHO WORK FOR :IND
V2708	F1a:MONTH UNEMPLOYED
V2711	F1c:LAST WRK THIS JOB-MO
V2712	F1c:LAST WRK THIS JOB-YR
V2713	F1d:MO BECAME DISABLED
V2714	F1d:YR BECAME DISABLED
V2715	F1e:MONTH RETIRED
V2716	F1e:YEAR RETIRED
V2717	F2:ANY WRK FOR PAY :IMP
V2718	F3:WHO WORK FOR :IMP
V2816	F23:YR STARTED FOR EMPLR
V2834	F33:YR STRT THIS BUSINES
V3402	G1A:MO LST WRK W/PAY
V3403	G1A:YR LST WRK W/PAY
V3418	G13:YR STRT WRK JOB
V3442	G25:R/SE:YR STRT @ BUS.
V3604	H4:WHN STRT WRKNG JOB-YR
V3607	H7:YEAR STP WRKNG AT JB
V3704	H25:1ST:YR STRTD THERE
V3705	H26:1ST:YR LEFT THERE
V3804	H25:NXT:YR STRTD THERE
V3805	H26:NXT:YR LEFT THERE

### AHEAD 1993:

B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1178	G2. CURRENTLY SELF EMPLOYED
B1182	G4. CURRENT WORK START YEAR
B1183	G4. CURRENT WORK START YEARS AGO
B1184	G4. CURRENT WORK START AT AGE
B1207	G11. JOB LAST 2 YEARS: END MONTH
B1208	G11. JOB LAST 2 YEARS: END YEAR
B1221	G14. JOB LAST 2 YRS START YEAR
B1222	G14. JOB LAST 2 YRS START YEARS AGO
B1223	G14. JOB LAST 2 YRS START AT AGE
B1232	G20. EVER WORK 10/+ YRS?
B1235	G22. 10/+ YRS ONE EMP: # YEARS

### HRS 1994:

W3307	FA1a.UNEMPLOYED-MONTH
W3308	FA1b.UNEMPLOYED-YEAR
W3310	FA1d.LAST WORKED ON JOB-

W3311	FA1e.LAST WORKED ON JOB-
W3312	FA1f.DISABLED-MONTH
W3313	FA1f.DISABLED-YEAR
W3314	FA1h.RETIRED-MONTH
W3315	FA1h.RETIRED-YEAR
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS
W3318	FA5.STOPPED WORKING FOR
W3319	FA5.STOPPED WORKING FOR
W3458	FA19.STILL WORKING FOR W
W3503	FA26.STOPPED WORKING FOR
W3504	FA26.STOPPED WORKING FOR
W3662	FA59.START WORK FOR EMPL
W3663	FA59.START WORK FOR EMPL
W4200	FB2.STOPPED WORK FOR EMP
W4201	FB2a.STOPPED WORK FOR EM
W4327	FB22.STARTED S-E WORK-MO
W4328	FB22a.STARTED S-E WORK-Y
W4800	FC2.MONTH STOPPED SELF-E
W4801	FC2a.YEAR STOPPED SELF-E
W4897	FC16.MONTH STOPPED WORK
W4898	FC16a.YEAR STOPPED WORK
W7002	G1a.LAST WORKED-YEAR
W7003	G1a.LAST WORKED-YEARS AG
W7004	G1a.LAST WORKED-MONTH
W7018	G13.START WORK-YEAR
W7019	G13.START WORK-YEARS AGO
W7020	G13.START WORK-AGE
W7103	H4.START WORK-YEAR
W7104	H4.START WORK-YEARS AGO
W7105	H4.START WORK-AGE
W7108	H7.LEFT EMPLOYER-YEAR
W7109	H7.LEFT EMPLOYER-YEARS A
W7110	H7.LEFT EMPLOYER-AGE
W7162	EMP1. H25.START WORK-YEA
W7163	EMP1. H26.LEFT EMPLOYER-
W7196	EMP2. H25.START WORK-YEA
W7197	EMP2. H26.LEFT EMPLOYER-
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2633	GA1D. MONTH LAST WORKED - TEMPORARY
D2634	GA1E. YEAR LAST WORKED - TEMPORARY
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2643	GA1J.YEAR RETIRED
D2644	GA1J.MONTH RETIRED
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2654	GA5. MONTH STOPPED SELF-EMPL
D2655	GA5A. YEAR STOPPED SELF-EMPL
D2747	GA19. STILL WORKING SAME EMPLOYER
D2759	GA26. MONTH STOPPED WORKING WAVE I EMPLO
D2760	GA26A. YEAR STOPPED WORKING WAVE I EMPLO
D2831	GA43. MONTH STARTED CURRENT WORK
D2832	GA43A. YEAR STARTED CURRENT WORK

D3188	GB2. MONTH STOPPED SELF-EMPL
D3189	GB2A. YEAR STOPPED SELF-EMPL
D3545	GC2. MONTH STOPPED SELF-EMPL
D3546	GC2A. YEAR STOPPED SELF-EMPL
D3639	GC16. MONTH STOPPED WORKING WAVE I EMPLO
D3640	GC16A. YEAR STOPPED WORKING WAVE I EMPLO
HRS 1996:	
E2612	G1A.UNEMPLOYED-MONTH
E2613	G1B.UNEMPLOYED-YEAR
E2616	G1D.LAST WORKED ON JOB-MONTH
E2617	G1E.LAST WORKED ON JOB-YEAR
E2619	G1F.DISABLED-MONTH
E2620	G1G.DISABLED-YEAR
E2622	G1H.RETIRED-MONTH
E2623	G1J.RETIRED-YEAR
E2627	G2.WORKING FOR PAY
E2628	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
E2630	G5.STOPPED WORKING FOR SELF-MONTH
E2631	G5A.STOPPED WORKING FOR SELF-YEAR
E2654	G19A.STILL WORKNG FOR PREV WAVE EMPLOYER
E2655	G19B.STILL WORKING PREV EMPLOYER
E2667	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
E2668	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
E2825	G63.START WORK FOR EMPLOYER-MONTH
E2826	G63A.START WORK FOR EMPLOYER-YEAR
E3127	GG1A.LAST WORKED-YEAR
E3128	GG1A.LAST WORKED-YEARS AGO
E3129	GG1A.LAST WORKED-MONTH
E3146	GG13.START WORK-YEAR
E3147	GG13.START WORK-YEARS AGO
E3148	GG13.START WORK-AGE
E3329	GH4.START WORK-YEAR
E3330	GH4.START WORK-YEARS AGO
E3331	GH4.START WORK-AGE
E3337	GH7.LEFT EMPLOYER-YEAR
E3338	GH7.LEFT EMPLOYER-YEARS AGO
E3339	GH7.LEFT EMPLOYER-AGE
HRS 1998:	
F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3120	G1D.LAST WORKED ON JOB-MONTH
F3121	G1E.LAST WORKED ON JOB-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3126	G1H.RETIRED-MONTH
F3127	G1J.RETIRED-YEAR
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3134	G5.STOPPED WORKING FOR SELF-MONTH
F3135	G5A.STOPPED WORKING FOR SELF-YEAR
F3158	G19A.STILL WORKING FOR PREV WAVE EMPLOYE
F3166	G19B.STILL WORKING PREV EMPLOYER
F3188	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
F3189	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
F3348	G63.START WORK FOR EMPLOYER-MONTH
F3349	G63A.START WORK FOR EMPLOYER-YEAR
F3644	GG1A1.LAST WORKED WHEN-YEAR
F3645	GG1A2.LAST WORKED WHEN-YEARS AGO
F3647	GG1A.LAST WORKED-MONTH

F3664	GG13.START WORK-YEAR
F3665	GG13.START WORK-YEARS AGO
F3666	GG13.START WORK-AGE
F3834	GH4.START WORK-YEAR
F3835	GH4.START WORK-YEARS AGO
F3836	GH4.START WORK-AGE
F3842	GH7.LEFT EMPLOYER-YEAR
F3843	GH7.LEFT EMPLOYER-YEARS AGO
F3844	GH7.LEFT EMPLOYER-AGE
F3903_1	GH25.START WORK FOR EMPLOYER-YEAR
F3903_2	GH25.START WORK FOR EMPLOYER-YEAR
F3904_1	GH26.LEFT EMPLOYER-YEAR
F3904_2	GH26.LEFT EMPLOYER-YEAR
HRS 2000:	
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3370	G1D.LAST WORKED ON JOB-MONTH
G3371	G1E.LAST WORKED ON JOB-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3376	G1H.RETIRED-MONTH
G3377	G1J.RETIRED-YEAR
G3381	G2.WORKING FOR PAY
G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3384	G5.STOPPED WORKING FOR SELF-MONTH
G3385	G5A.STOPPED WORKING FOR SELF-YEAR
G3416	G19B.STILL WORKING PREV EMPLOYER
G3437	G26.STOP WORK PREV WAVE EMPLOYR-MO
G3438	G26A.STOP WORK PREV WAVE EMPLOYR-YR
G3607	G63.START WORK FOR EMPLOYER-MONTH
G3608	G63A.START WORK FOR EMPLOYER-YEAR
G3954	GG1A1.LAST WORKED WHEN-YEAR
G3955	GG1A2.LAST WORKED WHEN-YEARS AGO
G3957	GG1A.LAST WORKED-MONTH
G3974	GG13.START WORK-YEAR
G3975	GG13Y1. START WORK-YEARS AGO
G3976	GG13Y2. START WORK-AGE
G4096	GH4.START WORK-YEAR
G4097	GH4Y1. START WORK-YEARS AGO
G4098	GH4Y2. START WORK-AGE
G4105	GH7Y1. LEFT EMPLOYER-YEARS AGO
G4106	GH7Y2. LEFT EMPLOYER-AGE
G4176_1	GH25.START WORK FOR EMPLOYER-YEAR
G4176_2	GH25.START WORK FOR EMPLOYER-YEAR
G4177_1	GH26.LEFT EMPLOYER-YEAR
G4177_2	GH26.LEFT EMPLOYER-YEAR
HRS 2002:	
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ011	MO LAST WORKED - LAID OFF
HJ012	YR LAST WORKED - LAID OFF
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ017	RETIRED-MO
HJ018	RETIRED-YR
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ023	STOPPED WORKING FOR SLF-MO
HJ024	STOPPED WORKING FOR SLF- YR

HJ045	STILL WORKING PREV EMPLOYER
HJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
HJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
HJ248	MO-START WORK FOR CURRENT EMPLOYER
HJ249	YR-START WORK FOR CURRENT EMPLOYER
HK002	LAST WRKED WHEN-YR
HK003	LAST WRKED WHEN-YRS AGO
HK004	LAST WRKED-MO
HK018	START WRK-YR
HK019	START WRK-YRS AGO
HK020	START WRK- AT AGE
HL009	START WRK-YR
HL010	START WORK-YRS AGO
HL011	START WORK- AT AGE
HL017	LEFT EMPLOYER-YRS AGO
HL018	LEFT EMPLOYER- AT AGE
HL078_1	START WRK FOR EMP- INC PENSION- YR- 1
HL078_2	START WRK FOR EMP- INC PENSION- YR- 2
HL079_1	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
HL079_2	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2004:	
JJ007	MO UNEMPLOYED
JJ008	YR UNEMPLOYED
JJ011	MO LAST WORKED - LAID OFF
JJ012	YR LAST WORKED - LAID OFF
JJ014	DISABLED-MO
JJ015	DISABLED- YR
JJ017	RETIRED-MO
JJ018	RETIRED-YR
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ023	STOPPED WORKING FOR SLF-MO
JJ024	STOPPED WORKING FOR SLF- YR
JJ045	STILL WORKING PREV EMPLOYER
JJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
JJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
JJ248	MO-START WORK FOR CURRENT EMPLOYER
JJ249	YR-START WORK FOR CURRENT EMPLOYER
JK004	LAST WRKED WHEN-YR
JK005	LAST WRKED WHEN-YRS AGO
JK006	LAST WRKED-MO
JK022	START WRK-YR
JK023	START WRK-YRS AGO
JK024	START WRK- AT AGE
JL009	START WRK-YR
JL010	START WORK-YRS AGO
JL011	START WORK- AT AGE
JL017	LEFT EMPLOYER-YRS AGO
JL018	LEFT EMPLOYER- AT AGE
JL034A	START WRK FOR EMP- INC PENSION- YR- 1
JL034B	START WRK FOR EMP- INC PENSION- YR- 2
JL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
JL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2006:	
KJ007	MO UNEMPLOYED
KJ008	YR UNEMPLOYED
KJ011	MO LAST WORKED - LAID OFF
KJ012	YR LAST WORKED - LAID OFF
KJ014	DISABLED-MO



KJ015	DISABLED- YR
KJ017	RETIRED-MO
KJ018	RETIRED-YR
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ023	STOPPED WORKING FOR SLF-MO
KJ024	STOPPED WORKING FOR SLF- YR
KJ045	STILL WORKING PREV EMPLOYER
KJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
KJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
KJ248	MO-START WORK FOR CURRENT EMPLOYER
KJ249	YR-START WORK FOR CURRENT EMPLOYER
KK004	LAST WRKED WHEN-YR
KK005	LAST WRKED WHEN-YRS AGO
KK006	LAST WRKED-MO
KK022	START WRK-YR
KK023	START WRK-YRS AGO
KK024	START WRK- AT AGE
KL009	START WRK-YR
KL010	START WORK-YRS AGO
KL011	START WORK- AT AGE
KL017	LEFT EMPLOYER-YRS AGO
KL018	LEFT EMPLOYER- AT AGE
KL034A	START WRK FOR EMP- INC PENSION- YR- 1
KL034B	START WRK FOR EMP- INC PENSION- YR- 2
KL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
KL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2008:	
LJ007	MO UNEMPLOYED
LJ008	YR UNEMPLOYED
LJ011	MO LAST WORKED - LAID OFF
LJ012	YR LAST WORKED - LAID OFF
LJ014	DISABLED-MO
LJ015	DISABLED- YR
LJ017	RETIRED-MO
LJ018	RETIRED-YR
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ023	STOPPED WORKING FOR SLF-MO
LJ024	STOPPED WORKING FOR SLF- YR
LJ045	STILL WORKING PREV EMPLOYER
LJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
LJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
LJ248	MO-START WORK FOR CURRENT EMPLOYER
LJ249	YR-START WORK FOR CURRENT EMPLOYER
LK004	LAST WRKED WHEN-YR
LK005	LAST WRKED WHEN-YRS AGO
LK006	LAST WRKED-MO
LK022	START WRK-YR
LK023	START WRK-YRS AGO
LK024	START WRK- AT AGE
LL009	START WRK-YR
LL010	START WORK-YRS AGO
LL011	START WORK- AT AGE
LL017	LEFT EMPLOYER-YRS AGO
LL018	LEFT EMPLOYER- AT AGE
LL034A	START WRK FOR EMP- INC PENSION- YR- 1
LL034B	START WRK FOR EMP- INC PENSION- YR- 2
LL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1

LL035B LEFT EMPLOYER- INCLUDE PENSION- YR- 2  
HRS 2010:  
MJ007 MO UNEMPLOYED  
MJ008 YR UNEMPLOYED  
MJ011 MO LAST WORKED - LAID OFF  
MJ012 YR LAST WORKED - LAID OFF  
MJ014 DISABLED-MO  
MJ015 DISABLED- YR  
MJ017 RETIRED-MO  
MJ018 RETIRED-YR  
MJ020 WORKING FOR PAY  
MJ021 WORK FOR SOMEONE ELSE/SLF-EMPLOYED  
MJ023 STOPPED WORKING FOR SLF-MO  
MJ024 STOPPED WORKING FOR SLF- YR  
MJ045 STILL WORKING PREV EMPLOYER  
MJ063 STOP/RETIRE WORK PREV WAVE EMPLOYER-MO  
MJ064 STOP/RETIRE WORK PREV WAVE EMPLOYER-YR  
MJ248 MO-START WORK FOR CURRENT EMPLOYER  
MJ249 YR-START WORK FOR CURRENT EMPLOYER  
MK004 LAST WRKED WHEN-YR  
MK005 LAST WRKED WHEN-YRS AGO  
MK006 LAST WRKED-MO  
MK022 START WRK-YR  
MK023 START WRK-YRS AGO  
MK024 START WRK- AT AGE  
ML009 START WRK-YR  
ML010 START WORK-YRS AGO  
ML011 START WORK- AT AGE  
ML017 LEFT EMPLOYER-YRS AGO  
ML018 LEFT EMPLOYER- AT AGE  
ML034A START WRK FOR EMP- INC PENSION- YR- 1  
ML034B START WRK FOR EMP- INC PENSION- YR- 2  
ML035A LEFT EMPLOYER- INCLUDE PENSION- YR- 1  
ML035B LEFT EMPLOYER- INCLUDE PENSION- YR- 2  
HRS 2012:  
NJ007 MO UNEMPLOYED  
NJ008 YR UNEMPLOYED  
NJ011 MO LAST WORKED - LAID OFF  
NJ012 YR LAST WORKED - LAID OFF  
NJ014 DISABLED-MO  
NJ015 DISABLED- YR  
NJ017 RETIRED-MO  
NJ018 RETIRED-YR  
NJ020 WORKING FOR PAY  
NJ021 WORK FOR SOMEONE ELSE/SLF-EMPLOYED  
NJ023 STOPPED WORKING FOR SLF-MO  
NJ024 STOPPED WORKING FOR SLF- YR  
NJ045 STILL WORKING PREV EMPLOYER  
NJ063 STOP/RETIRE WORK PREV WAVE EMPLOYER-MO  
NJ064 STOP/RETIRE WORK PREV WAVE EMPLOYER-YR  
NJ248 MO-START WORK FOR CURRENT EMPLOYER  
NJ249 YR-START WORK FOR CURRENT EMPLOYER  
NK004 LAST WRKED WHEN-YR  
NK005 LAST WRKED WHEN-YRS AGO  
NK006 LAST WRKED-MO  
NK022 START WRK-YR  
NK023 START WRK-YRS AGO  
NK024 START WRK- AT AGE  
NL009 START WRK-YR

NL010	START WORK-YRS AGO
NL011	START WORK- AT AGE
NL017	LEFT EMPLOYER-YRS AGO
NL018	LEFT EMPLOYER- AT AGE
NL034A	START WRK FOR EMP- INC PENSION- YR- 1
NL034B	START WRK FOR EMP- INC PENSION- YR- 2
NL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
NL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2014:	
OJ007	MO UNEMPLOYED
OJ008	YR UNEMPLOYED
OJ011	MO LAST WORKED - LAID OFF
OJ012	YR LAST WORKED - LAID OFF
OJ014	DISABLED-MO
OJ015	DISABLED- YR
OJ017	RETIRED-MO
OJ018	RETIRED-YR
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ023	STOPPED WORKING FOR SLF-MO
OJ024	STOPPED WORKING FOR SLF- YR
OJ045	STILL WORKING PREV EMPLOYER
OJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
OJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
OJ248	MO-START WORK FOR CURRENT EMPLOYER
OJ249	YR-START WORK FOR CURRENT EMPLOYER
OK004	LAST WRKED WHEN-YR
OK005	LAST WRKED WHEN-YRS AGO
OK006	LAST WRKED-MO
OK022	START WRK-YR
OK023	START WRK-YRS AGO
OK024	START WRK- AT AGE
OL009	START WRK-YR
OL010	START WORK-YRS AGO
OL011	START WORK- AT AGE
OL017	LEFT EMPLOYER-YRS AGO
OL018	LEFT EMPLOYER- AT AGE
OL034A	START WRK FOR EMP- INC PENSION- YR- 1
OL034B	START WRK FOR EMP- INC PENSION- YR- 2
OL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
OL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2

### Occupation code for job with longest reported tenure

Wave	Variable	Label	Type
1	R1JLOCC	R1JLOCC:W1 Longest Job Occ/1980 Census	Categ
2	R2JLOCC	R2JLOCC:W2 Longest Job Occ/1980 Census	Categ
3	R3JLOCC	R3JLOCC:W3 Longest Job Occ/1980 Census	Categ
4	R4JLOCC	R4JLOCC:W4 Longest Job Occ/1980 Census	Categ
5	R5JLOCC	R5JLOCC:W5 Longest Job Occ/1980 Census	Categ
6	R6JLOCC	R6JLOCC:W6 Longest Job Occ/1980 Census	Categ
7	R7JLOCC	R7JLOCC:W7 Longest Job Occ/1980 Census	Categ
8	R8JLOCC	R8JLOCC:W8 Longest Job Occ/1980 Census	Categ
9	R9JLOCC	R9JLOCC:W9 Longest Job Occ/1980 Census	Categ
10	R10JLOCC	R10JLOCC:W10 Longest Job Occ/1980 Census	Categ
11	R11JLOCC	R11JLOCC:W11 Longest Job Occ/1980 Census	Categ
12	R12JLOCC	R12JLOCC:W12 Longest Job Occ/1980 Census	Categ
1	S1JLOCC	S1JLOCC:W1 Longest Job Occ/1980 Census	Categ
2	S2JLOCC	S2JLOCC:W2 Longest Job Occ/1980 Census	Categ
3	S3JLOCC	S3JLOCC:W3 Longest Job Occ/1980 Census	Categ
4	S4JLOCC	S4JLOCC:W4 Longest Job Occ/1980 Census	Categ
5	S5JLOCC	S5JLOCC:W5 Longest Job Occ/1980 Census	Categ
6	S6JLOCC	S6JLOCC:W6 Longest Job Occ/1980 Census	Categ
7	S7JLOCC	S7JLOCC:W7 Longest Job Occ/1980 Census	Categ
8	S8JLOCC	S8JLOCC:W8 Longest Job Occ/1980 Census	Categ
9	S9JLOCC	S9JLOCC:W9 Longest Job Occ/1980 Census	Categ
10	S10JLOCC	S10JLOCC:W10 Longest Job Occ/1980 Census	Categ
11	S11JLOCC	S11JLOCC:W11 Longest Job Occ/1980 Census	Categ
12	S12JLOCC	S12JLOCC:W12 Longest Job Occ/1980 Census	Categ
1	R1JLOCCA	R1JLOCCA:W1 Long Job Occup/Ahead coding	Categ
2	R2JLOCCA	R2JLOCCA:W2 Long Job Occup/Ahead coding	Categ
3	R3JLOCCA	R3JLOCCA:W3 Long Job Occup/Ahead coding	Categ
4	R4JLOCCA	R4JLOCCA:W4 Long Job Occup/Ahead coding	Categ
5	R5JLOCCA	R5JLOCCA:W5 Long Job Occup/Ahead coding	Categ
6	R6JLOCCA	R6JLOCCA:W6 Long Job Occup/Ahead coding	Categ
7	R7JLOCCA	R7JLOCCA:W7 Long Job Occup/Ahead coding	Categ
8	R8JLOCCA	R8JLOCCA:W8 Long Job Occup/Ahead coding	Categ
9	R9JLOCCA	R9JLOCCA:W9 Long Job Occup/Ahead coding	Categ
10	R10JLOCCA	R10JLOCCA:W10 Long Job Occup/Ahead coding	Categ
11	R11JLOCCA	R11JLOCCA:W11 Long Job Occup/Ahead coding	Categ
12	R12JLOCCA	R12JLOCCA:W12 Long Job Occup/Ahead coding	Categ
1	S1JLOCCA	S1JLOCCA:W1 Long Job Occup/Ahead coding	Categ
2	S2JLOCCA	S2JLOCCA:W2 Long Job Occup/Ahead coding	Categ
3	S3JLOCCA	S3JLOCCA:W3 Long Job Occup/Ahead coding	Categ
4	S4JLOCCA	S4JLOCCA:W4 Long Job Occup/Ahead coding	Categ
5	S5JLOCCA	S5JLOCCA:W5 Long Job Occup/Ahead coding	Categ
6	S6JLOCCA	S6JLOCCA:W6 Long Job Occup/Ahead coding	Categ
7	S7JLOCCA	S7JLOCCA:W7 Long Job Occup/Ahead coding	Categ
8	S8JLOCCA	S8JLOCCA:W8 Long Job Occup/Ahead coding	Categ
9	S9JLOCCA	S9JLOCCA:W9 Long Job Occup/Ahead coding	Categ
10	S10JLOCCA	S10JLOCCA:W10 Long Job Occup/Ahead coding	Categ
11	S11JLOCCA	S11JLOCCA:W11 Long Job Occup/Ahead coding	Categ
12	S12JLOCCA	S12JLOCCA:W12 Long Job Occup/Ahead coding	Categ
7	R7JLOCCB	R7JLOCCB:W7 Long Job Occup/2000 Census	Categ
8	R8JLOCCB	R8JLOCCB:W8 Long Job Occup/2000 Census	Categ
9	R9JLOCCB	R9JLOCCB:W9 Long Job Occup/2000 Census	Categ
10	R10JLOCCB	R10JLOCCB:W10 Long Job Occup/2000 Census	Categ
11	R11JLOCCB	R11JLOCCB:W11 Long Job Occup/2000 Census	Categ
12	R12JLOCCB	R12JLOCCB:W12 Long Job Occup/2000 Census	Categ
7	S7JLOCCB	S7JLOCCB:W7 Long Job Occup/2000 Census	Categ
8	S8JLOCCB	S8JLOCCB:W8 Long Job Occup/2000 Census	Categ
9	S9JLOCCB	S9JLOCCB:W9 Long Job Occup/2000 Census	Categ
10	S10JLOCCB	S10JLOCCB:W10 Long Job Occup/2000 Census	Categ
11	S11JLOCCB	S11JLOCCB:W11 Long Job Occup/2000 Census	Categ
12	S12JLOCCB	S12JLOCCB:W12 Long Job Occup/2000 Census	Categ

10	R10JLOCCC	R10JLOCCC:W10	Long	Job	Occup/2010	Census	Categ
11	R11JLOCCC	R11JLOCCC:W11	Long	Job	Occup/2010	Census	Categ
12	R12JLOCCC	R12JLOCCC:W12	Long	Job	Occup/2010	Census	Categ
10	S10JLOCCC	S10JLOCCC:W10	Long	Job	Occup/2010	Census	Categ
11	S11JLOCCC	S11JLOCCC:W11	Long	Job	Occup/2010	Census	Categ
12	S12JLOCCC	S12JLOCCC:W12	Long	Job	Occup/2010	Census	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLOCC	11231	6.80	5.15	1.0	17.0
R2JLOCC	11656	6.69	5.08	1.0	17.0
R3JLOCC	11237	6.66	5.05	1.0	17.0
R4JLOCC	15312	6.53	5.02	1.0	17.0
R5JLOCC	14367	6.44	5.00	1.0	17.0
R6JLOCC	13805	6.39	4.98	1.0	17.0
R7JLOCC	16084	6.39	4.97	1.0	17.0
R8JLOCC	14728	6.34	4.95	1.0	17.0
R9JLOCC	13732	6.31	4.94	1.0	17.0
R10JLOCC	12669	6.25	4.92	1.0	17.0
R11JLOCC	11764	6.20	4.90	1.0	17.0
R12JLOCC	10573	6.12	4.88	1.0	17.0
S1JLOCC	8827	6.78	5.20	1.0	17.0
S2JLOCC	8770	6.69	5.16	1.0	17.0
S3JLOCC	8336	6.67	5.14	1.0	17.0
S4JLOCC	10912	6.53	5.10	1.0	17.0
S5JLOCC	10222	6.45	5.09	1.0	17.0
S6JLOCC	9622	6.37	5.08	1.0	17.0
S7JLOCC	11084	6.35	5.06	1.0	17.0
S8JLOCC	9913	6.31	5.06	1.0	17.0
S9JLOCC	8938	6.24	5.04	1.0	17.0
S10JLOCC	7997	6.17	5.01	1.0	17.0
S11JLOCC	7171	6.13	5.01	1.0	17.0
S12JLOCC	6163	6.05	5.02	1.0	17.0
R1JLOCCA	41	4.41	2.26	1.0	8.0
R2JLOCCA	5483	4.32	2.37	1.0	9.0
R3JLOCCA	4760	4.29	2.38	1.0	9.0
R4JLOCCA	4107	4.30	2.40	1.0	9.0
R5JLOCCA	3418	4.25	2.40	1.0	9.0
R6JLOCCA	2811	4.20	2.40	1.0	9.0
R7JLOCCA	2289	4.21	2.41	1.0	9.0
R8JLOCCA	1804	4.18	2.41	1.0	9.0
R9JLOCCA	1427	4.08	2.39	1.0	9.0
R10JLOCCA	987	4.08	2.42	1.0	9.0
R11JLOCCA	749	3.99	2.40	1.0	9.0
R12JLOCCA	541	3.99	2.42	1.0	9.0
S1JLOCCA	41	4.41	2.26	1.0	8.0
S2JLOCCA	3127	4.15	2.29	1.0	9.0
S3JLOCCA	2636	4.09	2.29	1.0	9.0
S4JLOCCA	2098	4.10	2.31	1.0	9.0
S5JLOCCA	1600	4.06	2.32	1.0	9.0
S6JLOCCA	1188	3.97	2.33	1.0	9.0
S7JLOCCA	881	3.89	2.34	1.0	9.0

S8JLOCCA	609	3.87	2.36	1.0	9.0
S9JLOCCA	428	3.84	2.38	1.0	9.0
S10JLOCCA	241	3.80	2.47	1.0	9.0
S11JLOCCA	151	3.72	2.52	1.0	9.0
S12JLOCCA	92	3.65	2.63	1.0	9.0
R7JLOCCB	3869	13.73	7.37	1.0	25.0
R8JLOCCB	4771	13.66	7.26	1.0	25.0
R9JLOCCB	4633	13.67	7.25	1.0	25.0
R10JLOCCB	9641	14.28	7.06	1.0	25.0
R11JLOCCB	8670	14.31	7.01	1.0	25.0
R12JLOCCB	7944	14.34	6.97	1.0	25.0
S7JLOCCB	2819	13.50	7.53	1.0	25.0
S8JLOCCB	3500	13.50	7.46	1.0	25.0
S9JLOCCB	3322	13.40	7.48	1.0	25.0
S10JLOCCB	6461	14.10	7.30	1.0	25.0
S11JLOCCB	5733	14.11	7.26	1.0	25.0
S12JLOCCB	5117	14.16	7.18	1.0	25.0
R10JLOCCC	6043	13.35	6.57	1.0	23.0
R11JLOCCC	6143	13.28	6.58	1.0	23.0
R12JLOCCC	5966	13.29	6.52	1.0	23.0
S10JLOCCC	3990	13.25	6.76	1.0	23.0
S11JLOCCC	4137	13.14	6.79	1.0	23.0
S12JLOCCC	3932	13.13	6.74	1.0	23.0

## Categorical Variable Codes

Value	R1JLOCC	R2JLOCC	R3JLOCC	R4JLOCC	R5JLOCC	R6JLOCC	R7JLOCC
.B=Other Census code							244
.M=Oth missing	1380	4320	3816	3859	3385	2897	2644
.Q=Not asked this wv	41	3666	2938	2213	1827	1463	1157
01.Managerial specialty ope	1574	1635	1559	2154	2050	1984	2243
02.Prof specialty opr/tech	1607	1698	1662	2412	2323	2277	2692
03.Sales	1030	1093	1038	1448	1357	1306	1510
04.Clerical/admin supp	1765	1857	1801	2415	2303	2225	2635
05.Svc:prv hhld/clean/bldg	151	183	174	223	207	200	220
06.Svc:protection	153	153	154	217	201	194	220
07.Svc:food prep	383	395	374	529	480	439	510
08.Health svc	268	289	269	372	349	353	411
09.Personal svc	633	677	683	868	824	791	965
10.Farming/forestry/fishing	330	359	349	473	438	407	464
11.Mechanics/repair	405	409	412	559	504	480	581
12.Constr trade/extractors	402	380	380	532	491	457	561
13.Precision production	469	485	470	616	564	532	586
14.Operators: machine	999	1016	960	1265	1140	1094	1212
15.Operators: transport, et	557	555	524	689	643	593	686
16.Operators: handlers, etc	340	325	301	400	360	348	450
17.Member of Armed Forces	165	147	127	140	133	125	138
Value	R8JLOCC	R9JLOCC	R10JLOCC	R11JLOCC	R12JLOCC		
.B=Other Census code	586	804	6149	6147	5927		
.M=Oth missing	2285	2010	2777	2323	2028		
.Q=Not asked this wv	870	671	439	320	219		
01.Managerial specialty ope	2060	1914	1778	1674	1514		
02.Prof specialty opr/tech	2488	2356	2193	2056	1901		
03.Sales	1392	1313	1225	1137	1017		
04.Clerical/admin supp	2457	2292	2141	2008	1825		
05.Svc:prv hhld/clean/bldg	193	176	158	150	136		
06.Svc:protection	200	186	171	157	138		
07.Svc:food prep	456	436	391	363	345		
08.Health svc	387	351	328	310	285		
09.Personal svc	876	826	773	716	613		
10.Farming/forestry/fishing	409	374	339	297	254		
11.Mechanics/repair	537	488	441	391	340		
12.Constr trade/extractors	501	462	418	388	338		
13.Precision production	546	494	461	416	364		
14.Operators: machine	1083	997	893	822	729		
15.Operators: transport, et	621	570	524	473	407		
16.Operators: handlers, etc	407	388	344	321	289		
17.Member of Armed Forces	115	109	91	85	78		

Value	S1JLOCC	S2JLOCC	S3JLOCC	S4JLOCC	S5JLOCC	S6JLOCC	S7JLOCC
.B=Other Census code							108
.M=Oth missing	1032	2356	2062	2030	1721	1438	1352
.Q=Not asked this wv	41	1962	1517	1036	787	579	428
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
01.Managerial specialty ope	1292	1316	1232	1637	1570	1504	1692
02.Prof specialty opr/tech	1270	1289	1244	1766	1707	1646	1946
03.Sales	857	855	811	1064	980	931	1055
04.Clerical/admin supp	1372	1364	1293	1668	1561	1462	1714
05.Svc:prv hhld/clean/bldg	83	77	78	83	87	84	93
06.Svc:protection	124	125	122	165	154	150	165
07.Svc:food prep	260	252	224	291	254	231	272
08.Health svc	158	154	143	203	189	177	207
09.Personal svc	442	441	441	535	512	480	575
10.Farming/forestry/fishing	271	289	278	363	337	305	339
11.Mechanics/repair	344	344	344	442	402	384	456
12.Constr trade/extractors	346	323	318	432	403	359	433
13.Precision production	386	384	373	463	424	392	426
14.Operators: machine	766	746	692	871	767	711	779
15.Operators: transport, et	472	464	426	544	523	472	523
16.Operators: handlers, etc	243	220	205	270	242	235	298
17.Member of Armed Forces	141	127	112	115	110	99	111

Value	S8JLOCC	S9JLOCC	S10JLOCC	S11JLOCC	S12JLOCC
.B=Other Census code	393	548	4001	4081	3834
.M=Oth missing	1151	976	1416	1169	995
.Q=Not asked this wv	278	184	99	67	35
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
01.Managerial specialty ope	1547	1388	1263	1146	1008
02.Prof specialty opr/tech	1748	1604	1455	1320	1181
03.Sales	957	869	787	712	611
04.Clerical/admin supp	1530	1417	1272	1130	952
05.Svc:prv hhld/clean/bldg	77	65	58	54	48
06.Svc:protection	146	127	117	106	88
07.Svc:food prep	239	212	189	164	148
08.Health svc	178	159	144	135	117
09.Personal svc	486	443	386	343	272
10.Farming/forestry/fishing	293	259	224	192	155
11.Mechanics/repair	417	364	329	291	235
12.Constr trade/extractors	386	350	305	274	235
13.Precision production	399	342	302	266	230
14.Operators: machine	695	618	529	473	397
15.Operators: transport, et	452	400	354	307	258
16.Operators: handlers, etc	270	235	209	189	164
17.Member of Armed Forces	93	86	74	69	64



Value	R1JLOCCA	R2JLOCCA	R3JLOCCA	R4JLOCCA	R5JLOCCA	R6JLOCCA	R7JLOCCA
.M=Oth missing	68	2719	2254	1835	1574	1290	1071
.Q=Not asked this wv	12543	11420	10964	15433	14579	14058	16764
.R=RF		20	13	9	8	6	5
01.Professional/technical w	6	806	713	627	544	459	369
02.Managers/officials/propr	5	740	645	539	450	365	295
03.Clerical/kindred workers	5	881	797	682	579	509	432
04.Sales workers	2	400	359	333	280	238	195
05.Craftsmen/foremen/kindre	6	744	613	511	409	323	241
06.Operatives/kindred worke	11	902	750	621	510	391	320
07.Laborers/farm foremen	2	193	166	144	118	94	80
08.Svc workers	4	699	609	556	449	364	305
09.Farmers and farm manager		118	108	94	79	68	52

Value	R8JLOCCA	R9JLOCCA	R10JLOCCA	R11JLOCCA	R12JLOCCA
.M=Oth missing	891	711	535	413	301
.Q=Not asked this wv	15769	15075	20508	19389	17903
.R=RF	5	4	4	3	2
01.Professional/technical w	296	239	178	141	99
02.Managers/officials/propr	230	188	116	88	67
03.Clerical/kindred workers	357	300	208	169	125
04.Sales workers	155	129	94	69	53
05.Craftsmen/foremen/kindre	178	134	89	63	39
06.Operatives/kindred worke	244	179	118	85	57
07.Laborers/farm foremen	56	41	25	21	13
08.Svc workers	249	190	140	99	79
09.Farmers and farm manager	39	27	19	14	9

Value	S1JLOCCA	S2JLOCCA	S3JLOCCA	S4JLOCCA	S5JLOCCA	S6JLOCCA	S7JLOCCA
.M=Oth missing	67	1208	962	694	545	424	320
.Q=Not asked this wv	9792	9123	8629	11178	10578	10021	11767
.R=RF		14	11	8	7	6	4
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	200	95	537	311	220	380
01.Professional/technical w	6	474	407	336	264	214	171
02.Managers/officials/propr	5	498	429	330	256	192	144
03.Clerical/kindred workers	5	440	386	307	230	168	134
04.Sales workers	2	245	217	179	144	118	75
05.Craftsmen/foremen/kindre	6	503	413	316	238	171	115
06.Operatives/kindred worke	11	513	409	311	234	160	125
07.Laborers/farm foremen	2	116	96	84	58	36	27
08.Svc workers	4	254	207	176	125	87	59
09.Farmers and farm manager		84	72	59	51	42	31

Value	S8JLOCCA	S9JLOCCA	S10JLOCCA	S11JLOCCA	S12JLOCCA
.M=Oth missing	244	180	112	74	44
.Q=Not asked this wv	10879	10036	13158	12261	10891
.R=RF	3	2	2	2	
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
01.Professional/technical w	124	91	60	45	29
02.Managers/officials/propr	95	65	31	16	11
03.Clerical/kindred workers	94	68	39	22	14
04.Sales workers	54	40	18	7	4
05.Craftsmen/foremen/kindre	77	52	32	23	12
06.Operatives/kindred worke	81	50	23	14	6
07.Laborers/farm foremen	21	17	9	7	2
08.Svc workers	39	27	18	10	9
09.Farmers and farm manager	24	18	11	7	5

Value	R7JLOCCB
.M=Oth missing	2625
.P=From previous Census cod	12478
.Q=Not asked this wave	1157
01.Management Occupations	509
02.Business Oper-ns Special	66
03.Financial Specialists	72
04.Computer+Math Occs	56
05.Architecture+Engineering	64
06.Life/Physical/SocialSci	46
07.Community+Social Svcs Oc	59
08.Legal Occups	56
09.Education/Training/Libra	219
10.Arts/Design/Entertnmt Oc	64
11.Hlthcare Practition/Tech	162
12.Healthcare Support Occs	116
13.Protective Service Occs	57
14.Food Prep+Serving Occs	101
15.Blding/Grounds/Clean/Mai	200
16.Personal Care+Service Oc	160
17.Sales Occups	395
18.Office+Admin Support Occ	547
19.Farm/Fish/Forestry Occup	24
20.Construction Trades	199
21.Extraction Workers	5
22.Install/Maint/Repair Wor	145
23.Production Occups	345
24.Transport/Material Movin	182
25.Military Specific Occups	20

Value	R8JLOCCB	R9JLOCCB	R10JLOCCB	R11JLOCCB	R12JLOCCB
.B=Other Census code				559	713
.M=Oth missing	2271	2000	2770	2465	2284
.P=From previous Census cod	10557	9913	9184	8540	7587
.Q=Not asked this wave	870	671	439	320	219
01.Management Occupations	586	576	958	838	746
02.Business Oper-ns Special	93	80	171	159	149
03.Financial Specialists	93	91	162	152	142
04.Computer+Math Occs	66	62	154	122	105
05.Architecture+Engineering	71	82	141	122	111
06.Life/Physical/SocialSci	59	48	82	74	70
07.Community+Social Svcs Oc	85	77	187	168	147
08.Legal Occups	73	65	106	95	85
09.Education/Training/Libra	327	327	570	509	465
10.Arts/Design/Entertnmt Oc	70	61	147	135	133
11.Hlthcare Practition/Tech	210	200	396	371	345
12.Healthcare Support Occs	141	132	305	280	268
13.Protective Service Occs	67	71	179	157	147
14.Food Prep+Serving Occs	138	146	387	333	306
15.Blding/Grounds/Clean/Mai	248	232	595	548	504
16.Personal Care+Service Oc	191	202	467	416	395
17.Sales Occups	458	462	872	818	758
18.Office+Admin Support Occ	739	680	1359	1237	1112
19.Farm/Fish/Forestry Occup	29	33	73	61	55
20.Construction Trades	214	221	499	452	421
21.Extraction Workers	6	5	5	6	5
22.Install/Maint/Repair Wor	151	157	331	282	263
23.Production Occups	406	380	829	745	684
24.Transport/Material Movin	232	224	608	535	477
25.Military Specific Occups	18	19	58	55	51

Value	S7JLOCCB
.M=Oth missing	1342
.P=From previous Census cod	8383
.Q=Not asked this wave	428
.U=Unmarried	6777
.V=Spouse NR	380
01.Management Occupations	404
02.Business Oper-ns Special	55
03.Financial Specialists	59
04.Computer+Math Occs	44
05.Architecture+Engineering	52
06.Life/Physical/SocialSci	35
07.Community+Social Svcs Oc	36
08.Legal Occups	42
09.Education/Training/Libra	153
10.Arts/Design/Entertnmt Oc	51
11.Hlthcare Practition/Tech	116
12.Healthcare Support Occs	70
13.Protective Service Occs	45
14.Food Prep+Serving Occs	70
15.Blding/Grounds/Clean/Mai	127
16.Personal Care+Service Oc	109
17.Sales Occups	296
18.Office+Admin Support Occ	382
19.Farm/Fish/Forestry Occup	14
20.Construction Trades	150
21.Extraction Workers	3
22.Install/Maint/Repair Wor	121
23.Production Occups	245
24.Transport/Material Movin	125
25.Military Specific Occups	15

Value	S8JLOCCB	S9JLOCCB	S10JLOCCB	S11JLOCCB	S12JLOCCB
.B=Other Census code				407	516
.M=Oth missing	1143	972	1414	1308	1209
.P=From previous Census cod	6814	6168	5539	4973	4150
.Q=Not asked this wave	278	184	99	67	35
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
01.Management Occupations	478	464	730	636	541
02.Business Oper-ns Special	70	64	121	110	100
03.Financial Specialists	68	72	124	115	107
04.Computer+Math Occs	51	47	99	79	67
05.Architecture+Engineering	57	69	113	96	83
06.Life/Physical/SocialSci	45	39	66	59	51
07.Community+Social Svcs Oc	58	54	109	102	90
08.Legal Occups	52	45	69	61	51
09.Education/Training/Libra	246	229	396	351	315
10.Arts/Design/Entertnmt Oc	51	47	100	88	80
11.Hlthcare Practition/Tech	155	139	246	225	211
12.Healthcare Support Occs	83	82	170	147	136
13.Protective Service Occs	51	42	109	99	94
14.Food Prep+Serving Occs	88	93	229	199	180
15.Blding/Grounds/Clean/Mai	157	139	353	325	290
16.Personal Care+Service Oc	127	126	269	235	212
17.Sales Occups	341	336	609	556	516
18.Office+Admin Support Occ	508	468	880	786	691
19.Farm/Fish/Forestry Occup	21	24	51	35	35
20.Construction Trades	173	176	362	335	300
21.Extraction Workers	5	3	4	4	3
22.Install/Maint/Repair Wor	126	125	240	202	188
23.Production Occups	305	271	549	488	434
24.Transport/Material Movin	169	152	423	360	305
25.Military Specific Occups	15	16	40	40	37

Value	R10JLOCCC	R11JLOCCC	R12JLOCCC
.M=Oth missing	3073	2536	2175
.P=From previous Census cod	12918	11875	10606
01.Management Occs	568	583	541
02.Business+Financial Oper-	210	237	239
03.Computer+Mathematical Oc	102	96	96
04.Architecture+Engineering	80	77	70
05.Life/Physical/SocialSci	46	40	41
06.Community+Social Service	127	137	120
07.Legal Occs	74	70	64
08.Education/Training/Libra	293	306	304
09.Arts/Design/Entertainmen	112	115	115
10.Healthcare Practitioners	236	244	247
11.Healthcare Support Occs	192	196	202
12.Protective Service Occs	119	121	118
13.Food Prep+Serving Relate	263	263	252
14.Building/Grounds Cleanin	404	412	411
15.Personal Care+Service Oc	322	319	326
16.Sales+Related Occs	544	563	554
17.Office+Administrative Su	789	806	769
18.Farming/Fishing/Forestry	45	41	44
19.Construction+Extraction	336	344	348
20.Installation/Maintenance	207	201	191
21.Production Occs	517	518	485
22.Transportation+Material	414	412	391
23.Military Specific Occs	43	42	38

Value	S10JLOCCC	S11JLOCCC	S12JLOCCC
.M=Oth missing	1474	1211	1014
.P=From previous Census cod	8049	7140	6081
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
01.Management Occs	425	454	413
02.Business+Financial Oper-	147	166	171
03.Computer+Mathematical Oc	63	61	67
04.Architecture+Engineering	62	64	55
05.Life/Physical/SocialSci	38	31	28
06.Community+Social Service	66	79	73
07.Legal Occs	49	46	37
08.Education/Training/Libra	203	219	206
09.Arts/Design/Entertainmen	76	71	68
10.Healthcare Practitioners	138	146	143
11.Healthcare Support Occs	104	107	106
12.Protective Service Occs	73	82	81
13.Food Prep+Serving Relate	152	158	147
14.Building/Grounds Cleanin	257	272	259
15.Personal Care+Service Oc	182	178	175
16.Sales+Related Occs	377	384	384
17.Office+Administrative Su	508	524	504
18.Farming/Fishing/Forestry	33	28	31
19.Construction+Extraction	238	256	247
20.Installation/Maintenance	145	144	135
21.Production Occs	336	356	317
22.Transportation+Material	290	283	259
23.Military Specific Occs	28	28	26

## How Constructed

The occupation code for the job with the longest reported tenure is assigned once the job with the longest tenure is identified. It can be the current job, a past job held since the first HRS interview, or a job reported in the job history data. The job history questions were not asked in Waves 2A or 3A. For those in the AHEAD entry cohort, job history information was collected at Wave 4.

The occupation of jobs held since the first interview is usually available.

RwJLOCC is set to the occupation code associated with the longest-held job reported. RwJLOCCA is set to the AHEAD code for occupation if the longest-held job reported occupation in Wave 2A, 3A, or 4. RwJLOCCB is set to a Census 2000-based occupation code if the longest-held job reported occupation in Wave 7-10. RwJLOCCC is set to a Census 2010-based occupation code if the longest-held job reported occupation from Wave 10. Occupation codes are simply recoded for missing values.

In Wave 2A there is a question asked of some Respondents about the total years at the longest held job. If, after processing the current job and job history, R2JLTEN is less than the answer to this direct question, the direct question is used to set R2JLTEN, and the occupation associated with this job is used for R2JLOCCA forward. RwJLTENF is set to indicate if this replacement was done.

Since tenure at the longest-held job based on job history can not be modified using Wave 2A data, RwJLTENF is set to .Q for all Respondents who are not part of the AHEAD entry cohort to indicate that it is inapplicable for those cases.

The occupation codes differed between the AHEAD and other cohorts in Waves 2 and 3, and the AHEAD codes are not provided for other cohorts in any wave. For AHEAD Respondents both sets of codes are given in Wave 4 only. In each wave the unavailable set of codes is set to .Q for the appropriate variables, to indicate that the information is missing for this reason. Thus, for Waves 2H, 3H, and 4 RwJLOCCA is set to .Q for other cohorts. For Wave 1 and from Wave 5 on the AHEAD codes have been carried back or forward from Waves 2A, 3A or 4.

Beginning in Wave 7, HRS begins using a different set of occupation codes, based on the 2000 Census. Before Wave 7 there are 17 possible occupation codes; from Wave 7-10, there are 25 codes; from Wave 10 forwards, there are 23 codes. RwJLOCCB begins with R7JLOCCB and RwJLOCCC begins with R10JLOCCC.

If the longest-held job is not a job for which occupation is reported in Wave 7, then R7JLOCCB is set to .P, for occupation taken from prior wave and R7JLOCC provides the 1980 Census-based occupation. If the longest tenured job provides an occupation code in Wave 7 and is one that continues from prior wave, the Respondent may have values for both R7JLOCC and R7JLOCCB. If the longest tenured job's occupation is only reported in Wave 7, then R7JLOCC is set to .B, to indicate that the occupation code for the longest tenured job is taken from Wave 7 when HRS begins to use the 2000 Census industries, which R7JLOCCB provides. This applies to waves 7-10.

If the longest-held job is not a job for which occupation is reported in Wave 10, then R10JLOCCC is set to .P, for occupation taken from prior wave. R10JLOCC provides the 1980 Census-based occupation and R10JLOCCB provides the 2000 Census-based occupation. If the longest tenured job provides an occupation code in Wave 10 and is one that continues from prior wave, the Respondent may have values for both R10JLOCC and R10JLOCCB and R10JCOCCC. If the longest tenured job's occupation is only reported in Wave 10, then R10JLOCC and R10JCOCCB are set to .B, to indicate that the occupation code for the longest tenured job is taken from Wave 10 when HRS begins to use the 2010 Census industries, which R10JLOCCC provides. This applies from wave 10.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's RwJLOCC, RwJLOCCA, RwJLOCCB, and RwJLOCCC.

## Cross Wave Differences in Original HRS Data

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. If the last job ended more than 20 years ago, the amount of information gathered is very limited. Otherwise, questions ask about the starting date, occupation, and industry of the last job. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

"Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?"

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working but has worked during the last two years, information about that last job is collected, including start and stop dates and occupation. Industry of the last job is not available. In addition, most people are asked if they ever worked for ten or more years. If so they are then asked if they worked for one employer for ten or more years, and if so, the occupation and number of years at the longest held job are collected. If not, another question asks the total years worked for pay.

Each interview obtains the Respondent's current work status. At the Respondent's first interview questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

Occupation codes for the AHEAD cohort (Waves 2A and 3A) differed from those collected from other cohorts. In Wave 4 only, both the AHEAD and HRS version of the codes are available for AHEAD Respondents, while only the HRS codes are available for other cohorts.

Before Wave 7, the occupation codes are based on 1980 Census occupations, assigned to one of 17 categories. From Wave 7-10, they are based on 2000 Census occupations, assigned to one of 24 categories. Beginning in Wave 10, they are based on 2010 Census occupations, assigned to one of 23 categories.

**HRS Variables Used**

HRS 1992:	
V3407	G5G6:OCC:1980 CENSUS OCC
V3432	G19:OCC:1980 CENSUS OCC
V3606	H5A6:OCC:1980 CENSUS OCC
AHEAD 1993:	
OCCG13B	G13. JOB LAST 2 YRS: OCCUPATION
OCCG23B	G23. LONGER JOB: OCCUPATION TYPE
OCCG3B	G3. CURRENT OCCUPATION
HRS 1994:	
W7007	G5/G6.OCCUPATION
W7107	H5a/H6.OCCUPATION
AHEAD 1995:	
D2820M	GA39/42. OCCUPATION
D3254M	GB15/16. OCCUPATION
HRS 1996:	
E2666M	G24/G25. CURRENT OCC
E2732M	G41A/G42. OCC
E3134M	GG3A/GG6. OCC
E3336M	GH5/GH6. OCC
HRS 1998:	
F3187AM	G25.CURRENT OCC - AHD MASKED
F3187HM	G25.CURRENT OCC - HRS MASKED
F3255AM	G42.OCC - AHD MASKED
F3255HM	G42.OCC - HRS MASKED
F3652AM	GG6.OCC - AHD MASKED
F3652HM	GG6.OCC - HRS MASKED
F3841AM	GH6.OCC - AHD MASKED
F3841HM	GH6.OCC - HRS MASKED
HRS 2000:	
G3436M	G25.CURRENT OCC - MASKED
G3505M	G42.OCC - MASKED
G3962M	GG6.OCC - MASKED
G4103M	GH6.OCC - MASKED
HRS 2002:	
HJ061M	CURRENT WORK DONE - MASKED
HJ168M	OCCUPATION - MASKED
HK007M	TYPE WRK DONE - MASKED
HL015M	TYPE WRK DONE - MASKED
HRS 2004:	
JJ061M	CURRENT WORK DONE - MASKED
JJ168M	OCCUPATION - MASKED
JK008M_00	INDUSTRY 2000 Census- MASKED
JK010M	TYPE WRK DONE - MASKED
JK010M_00	TYPE WRK DONE 2000 Census- MASKED
JL015M	TYPE WRK DONE - MASKED
HRS 2006:	
KJ062M	CURRENT WORK DONE - MASKED
KJ168M	TYPE WORK DONE- MASKED
KK010M	TYPE WRK DONE - MASKED
KL015M	TYPE WRK DONE - MASKED
HRS 2008:	
LJ062M	CURRENT WORK DONE - MASKED
LJ168M	TYPE WORK DONE- MASKED
LK010M	TYPE WRK DONE - MASKED
LL015M	TYPE WRK DONE - MASKED
HRS 2010:	
MJ062M	CURRENT WORK DONE - MASKED
MJ062M_10	CURRENT WORK DONE 2010 Census- MASKED

MJ168M	TYPE WORK DONE- MASKED
MJ168M_10	TYPE WORK DONE 2010 Census- MASKED
MK010M	TYPE WRK DONE - MASKED
ML015M	TYPE WRK DONE - MASKED
HRS 2012:	
NJ062M	CURRENT WORK DONE - MASKED
NJ168M	TYPE WORK DONE- MASKED
NK010M	TYPE WRK DONE - MASKED
NL015M	TYPE WRK DONE - MASKED
HRS 2014:	
OJ168M	TYPE WORK DONE- MASKED
OK010M	TYPE WRK DONE - MASKED
OL015M	TYPE WRK DONE - MASKED



<b>Industry code for job with longest tenure</b>
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Wave	Variable	Label	Type
1	R1JLIND	R1JLIND:W1 Longest Job Industry/1980 Census	Categ
2	R2JLIND	R2JLIND:W2 Longest Job Industry/1980 Census	Categ
3	R3JLIND	R3JLIND:W3 Longest Job Industry/1980 Census	Categ
4	R4JLIND	R4JLIND:W4 Longest Job Industry/1980 Census	Categ
5	R5JLIND	R5JLIND:W5 Longest Job Industry/1980 Census	Categ
6	R6JLIND	R6JLIND:W6 Longest Job Industry/1980 Census	Categ
7	R7JLIND	R7JLIND:W7 Longest Job Industry/1980 Census	Categ
8	R8JLIND	R8JLIND:W8 Longest Job Industry/1980 Census	Categ
9	R9JLIND	R9JLIND:W9 Longest Job Industry/1980 Census	Categ
10	R10JLIND	R10JLIND:W10 Longest Job Industry/1980 Census	Categ
11	R11JLIND	R11JLIND:W11 Longest Job Industry/1980 Census	Categ
12	R12JLIND	R12JLIND:W12 Longest Job Industry/1980 Census	Categ
1	S1JLIND	S1JLIND:W1 Longest Job Industry/1980 Census	Categ
2	S2JLIND	S2JLIND:W2 Longest Job Industry/1980 Census	Categ
3	S3JLIND	S3JLIND:W3 Longest Job Industry/1980 Census	Categ
4	S4JLIND	S4JLIND:W4 Longest Job Industry/1980 Census	Categ
5	S5JLIND	S5JLIND:W5 Longest Job Industry/1980 Census	Categ
6	S6JLIND	S6JLIND:W6 Longest Job Industry/1980 Census	Categ
7	S7JLIND	S7JLIND:W7 Longest Job Industry/1980 Census	Categ
8	S8JLIND	S8JLIND:W8 Longest Job Industry/1980 Census	Categ
9	S9JLIND	S9JLIND:W9 Longest Job Industry/1980 Census	Categ
10	S10JLIND	S10JLIND:W10 Longest Job Industry/1980 Census	Categ
11	S11JLIND	S11JLIND:W11 Longest Job Industry/1980 Census	Categ
12	S12JLIND	S12JLIND:W12 Longest Job Industry/1980 Census	Categ
7	R7JLINDB	R7JLINDB:W7 Long Job Industry/2002 Census	Categ
8	R8JLINDB	R8JLINDB:W8 Long Job Industry/2002 Census	Categ
9	R9JLINDB	R9JLINDB:W9 Long Job Industry/2002 Census	Categ
10	R10JLINDB	R10JLINDB:W10 Long Job Industry/2002 Census	Categ
11	R11JLINDB	R11JLINDB:W11 Long Job Industry/2002 Census	Categ
12	R12JLINDB	R12JLINDB:W12 Long Job Industry/2002 Census	Categ
7	S7JLINDB	S7JLINDB:W7 Long Job Industry/2002 Census	Categ
8	S8JLINDB	S8JLINDB:W8 Long Job Industry/2002 Census	Categ
9	S9JLINDB	S9JLINDB:W9 Long Job Industry/2002 Census	Categ
10	S10JLINDB	S10JLINDB:W10 Long Job Industry/2002 Census	Categ
11	S11JLINDB	S11JLINDB:W11 Long Job Industry/2002 Census	Categ
12	S12JLINDB	S12JLINDB:W12 Long Job Industry/2002 Census	Categ
10	R10JLINDC	R10JLINDC:W10 Long Job Industry/2007 Census	Categ
11	R11JLINDC	R11JLINDC:W11 Long Job Industry/2007 Census	Categ
12	R12JLINDC	R12JLINDC:W12 Long Job Industry/2007 Census	Categ
10	S10JLINDC	S10JLINDC:W10 Long Job Industry/2007 Census	Categ
11	S11JLINDC	S11JLINDC:W11 Long Job Industry/2007 Census	Categ
12	S12JLINDC	S12JLINDC:W12 Long Job Industry/2007 Census	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLIND	11179	7.41	3.77	1.0	13.0
R2JLIND	11634	7.50	3.79	1.0	13.0
R3JLIND	11213	7.53	3.78	1.0	13.0
R4JLIND	15240	7.58	3.77	1.0	13.0
R5JLIND	14307	7.62	3.77	1.0	13.0
R6JLIND	13742	7.67	3.78	1.0	13.0
R7JLIND	16040	7.71	3.78	1.0	13.0
R8JLIND	14824	7.75	3.77	1.0	13.0

R9JLIND	13941	7.78	3.77	1.0	13.0
R10JLIND	12909	7.81	3.76	1.0	13.0
R11JLIND	12008	7.87	3.75	1.0	13.0
R12JLIND	10794	7.90	3.75	1.0	13.0
S1JLIND	8793	7.27	3.78	1.0	13.0
S2JLIND	8769	7.33	3.81	1.0	13.0
S3JLIND	8331	7.35	3.80	1.0	13.0
S4JLIND	10873	7.41	3.79	1.0	13.0
S5JLIND	10181	7.46	3.80	1.0	13.0
S6JLIND	9586	7.49	3.80	1.0	13.0
S7JLIND	11065	7.54	3.80	1.0	13.0
S8JLIND	9993	7.56	3.80	1.0	13.0
S9JLIND	9097	7.59	3.80	1.0	13.0
S10JLIND	8179	7.63	3.79	1.0	13.0
S11JLIND	7361	7.69	3.79	1.0	13.0
S12JLIND	6331	7.71	3.78	1.0	13.0
R7JLINDB	3734	10.49	5.15	1.0	19.0
R8JLINDB	3624	10.56	5.15	1.0	19.0
R9JLINDB	4593	10.80	5.12	1.0	19.0
R10JLINDB	9583	10.83	5.09	1.0	19.0
R11JLINDB	8857	10.84	5.07	1.0	19.0
R12JLINDB	8250	10.86	5.05	1.0	19.0
S7JLINDB	2718	10.23	5.16	1.0	19.0
S8JLINDB	2687	10.30	5.19	1.0	19.0
S9JLINDB	3303	10.52	5.13	1.0	19.0
S10JLINDB	6423	10.51	5.09	1.0	19.0
S11JLINDB	5856	10.54	5.07	1.0	19.0
S12JLINDB	5337	10.57	5.06	1.0	19.0
R10JLINDC	5971	10.80	5.08	1.0	19.0
R11JLINDC	6012	10.85	5.04	1.0	19.0
R12JLINDC	5814	10.92	5.04	1.0	19.0
S10JLINDC	3932	10.48	5.09	1.0	19.0
S11JLINDC	4042	10.57	5.06	1.0	19.0
S12JLINDC	3819	10.66	5.06	1.0	19.0

## Categorical Variable Codes

Value	R1JLIND	R2JLIND	R3JLIND	R4JLIND	R5JLIND	R6JLIND	R7JLIND
.B=Other Census code							2
.M=Oth missing	1432	4342	3840	3931	3445	2960	2930
.Q=Not asked this wv	41	3666	2938	2213	1827	1463	1157
01.Agric/Forest/Fish	349	378	376	501	470	441	505
02.Mining and Constr	705	709	664	864	806	758	898
03.Mnfg: Non-durable	1007	998	927	1253	1159	1137	1294
04.Mnfg: Durable	1417	1448	1386	1873	1721	1641	1840
05.Transportation	889	902	879	1136	1054	989	1208
06.Wholesale	400	403	403	511	476	444	538
07.Retail	1379	1407	1333	1855	1736	1600	1807
08.Finan/Ins/RealEs	628	663	646	910	874	863	1002
09.Busns/Repair Svc	506	501	496	707	668	638	796
10.Personal Service	534	586	586	776	718	706	814
11.Entertn/Recreatn	126	133	133	193	185	193	219
12.Prof/Related Svcs	2560	2809	2732	3778	3605	3518	4144
13.Public Administration	679	697	652	883	835	814	975

Value	R8JLIND	R9JLIND	R10JLIND	R11JLIND	R12JLIND
.B=Other Census code	239	375	5722	5746	5558
.M=Oth missing	2536	2230	2964	2480	2176
.Q=Not asked this wv	870	671	439	320	219
01.Agric/Forest/Fish	445	420	383	340	287
02.Mining and Constr	809	757	688	618	550
03.Mnfg: Non-durable	1169	1069	977	925	840
04.Mnfg: Durable	1703	1582	1426	1303	1158
05.Transportation	1109	1038	985	879	786
06.Wholesale	494	473	451	412	374
07.Retail	1668	1576	1427	1325	1181
08.Finan/Ins/RealEs	943	891	856	806	738
09.Busns/Repair Svc	751	707	669	622	564
10.Personal Service	729	676	623	584	511
11.Entertn/Recreatn	202	185	170	152	132
12.Prof/Related Svcs	3919	3708	3491	3323	3028
13.Public Administration	883	859	763	719	645

Value	S1JLIND	S2JLIND	S3JLIND	S4JLIND	S5JLIND	S6JLIND	S7JLIND
.B=Other Census code							1
.M=Oth missing	1066	2357	2067	2069	1762	1474	1478
.Q=Not asked this wv	41	1962	1517	1036	787	579	428
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
01.Agric/Forest/Fish	292	307	301	382	357	331	369
02.Mining and Constr	592	584	544	682	644	591	691
03.Mnfg: Non-durable	797	765	704	923	841	799	902
04.Mnfg: Durable	1169	1167	1094	1417	1281	1210	1344
05.Transportation	730	716	680	846	796	738	891
06.Wholesale	326	324	325	403	374	341	410
07.Retail	1100	1057	987	1285	1197	1102	1229
08.Finan/Ins/RealEs	491	502	479	659	620	594	672
09.Busns/Repair Svc	381	358	360	501	474	456	553
10.Personal Service	358	347	344	419	394	380	432
11.Entertn/Recreatn	89	84	82	117	113	121	135
12.Prof/Related Svcs	1923	2013	1935	2601	2479	2345	2764
13.Public Administration	545	545	496	638	611	578	673

Value	S8JLIND	S9JLIND	S10JLIND	S11JLIND	S12JLIND
.B=Other Census code	213	312	3751	3852	3621
.M=Oth missing	1251	1053	1484	1208	1040
.Q=Not asked this wv	278	184	99	67	35
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
01.Agric/Forest/Fish	319	294	256	223	182
02.Mining and Constr	626	563	498	431	369

03.Mnfg: Non-durable	798	707	625	577	497
04.Mnfg: Durable	1226	1102	972	848	734
05.Transportation	804	743	672	580	487
06.Wholesale	368	336	313	278	244
07.Retail	1092	986	858	768	656
08.Finan/Ins/RealEs	621	586	548	509	445
09.Busns/Repair Svc	510	463	432	401	347
10.Personal Service	372	326	292	269	231
11.Entertn/Recreatn	124	105	92	80	66
12.Prof/Related Svcs	2539	2322	2120	1936	1679
13.Public Administration	594	564	501	461	394

Value	R7JLINDB
.M=Oth missing	2683
.P=From previous Census cod	12555
.Q=Not asked this wv	1157
01.Agric/Forest/Fish/Huntin	97
02.Mining	17
03.Utilities	48
04.Construction	254
05.Manufacturing (continued	602
06.Wholesale Trade	136
07.Retail Trade	293
08.Transport/Warehousing	158
09.Information	98
10.Finance/Insurance	165
11.Real Estate/Rental/Leasi	112
12.Prof/Scientific/Tech Svc	192
13.Mgmt/Admin/Support/Wast	128
14.Educational Services	319
15.Health Care/Social Assis	481
16.Arts/Entertain/Recreatio	67
17.Accomodations/Food Svcs	139
18.Other Svcs/Except PubAdm	250
19.PubAdmin/Active Duty Mil	178

Value	R8JLINDB	R9JLINDB	R10JLINDB	R11JLINDB	R12JLINDB
.B=Other Census code				326	362
.M=Oth missing	2325	2045	2812	2497	2319
.P=From previous Census cod	11650	9908	9200	8554	7597
.Q=Not asked this wv	870	671	439	320	219
01.Agric/Forest/Fish/Huntin	94	108	170	142	125
02.Mining	18	23	40	36	31
03.Utilities	45	62	111	105	99
04.Construction	245	271	605	555	510
05.Manufacturing (continued	562	667	1422	1301	1222
06.Wholesale Trade	122	152	314	298	277
07.Retail Trade	301	383	810	771	707
08.Transport/Warehousing	155	195	471	431	400
09.Information	86	115	232	210	192
10.Finance/Insurance	161	199	362	340	321
11.Real Estate/Rental/Leasi	111	127	247	239	221
12.Prof/Scientific/Tech Svc	192	233	441	406	379
13.Mgmt/Admin/Support/Wast	123	132	370	335	316
14.Educational Services	316	472	836	780	741
15.Health Care/Social Assis	460	644	1430	1323	1250
16.Arts/Entertain/Recreatio	68	73	173	162	149
17.Accomodations/Food Svcs	129	186	468	424	390
18.Other Svcs/Except PubAdm	265	309	588	540	496
19.PubAdmin/Active Duty Mil	171	242	493	459	424

Value	S7JLINDB
.M=Oth missing	1368
.P=From previous Census cod	8458
.Q=Not asked this wv	428
.U=Unmarried	6777
.V=Spouse NR	380
01.Agric/Forest/Fish/Huntin	79
02.Mining	15
03.Utilities	39
04.Construction	200
05.Manufacturing (continued	462
06.Wholesale Trade	100
07.Retail Trade	218
08.Transport/Warehousing	115
09.Information	63
10.Finance/Insurance	128
11.Real Estate/Rental/Leasi	78
12.Prof/Scientific/Tech Svc	146
13.Mgmt/Admin/Support/Wast	86
14.Educational Services	235
15.Health Care/Social Assis	313
16.Arts/Entertain/Recreatio	52
17.Accomodations/Food Svcs	93
18.Other Svcs/Except PubAdm	178
19.PubAdmin/Active Duty Mil	118

Value	S8JLINDB	S9JLINDB	S10JLINDB	S11JLINDB	S12JLINDB
.B=Other Census code				257	272
.M=Oth missing	1166	989	1437	1315	1221
.P=From previous Census cod	7604	6170	5554	4993	4162
.Q=Not asked this wv	278	184	99	67	35
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
01.Agric/Forest/Fish/Huntin	78	87	128	101	94
02.Mining	18	20	33	29	23
03.Utilities	37	52	87	78	73
04.Construction	200	216	446	418	371
05.Manufacturing (continued	443	503	1016	901	820
06.Wholesale Trade	93	106	227	217	197
07.Retail Trade	220	276	537	496	445
08.Transport/Warehousing	115	147	326	292	265
09.Information	54	75	152	138	126
10.Finance/Insurance	125	155	265	252	236
11.Real Estate/Rental/Leasi	78	96	173	165	149
12.Prof/Scientific/Tech Svc	141	175	319	292	263
13.Mgmt/Admin/Support/Wast	87	91	232	215	198
14.Educational Services	242	343	571	529	491
15.Health Care/Social Assis	303	412	841	754	704
16.Arts/Entertain/Recreatio	54	57	114	98	86
17.Accomodations/Food Svcs	92	123	285	256	235
18.Other Svcs/Except PubAdm	192	209	360	331	297
19.PubAdmin/Active Duty Mil	115	160	311	294	264

Value	R10JLINDC	R11JLINDC	R12JLINDC
.M=Oth missing	3115	2567	2208
.P=From previous Census cod	12948	11975	10725
01.Agric/Forest/Fish/Huntin	112	102	98
02.Mining	19	16	11
03.Utilities	58	54	50
04.Construction	402	407	387
05.Manufacturing (continued	871	852	816
06.Wholesale Trade	196	210	198
07.Retail Trade	513	507	485
08.Transport/Warehousing	309	319	308
09.Information	138	129	126
10.Finance/Insurance	214	218	214
11.Real Estate/Rental/Leasi	158	167	154
12.Prof/Scientific/Tech Svc	301	313	295
13.Mgmnt/Admin/Support/Wast	266	267	262
14.Educational Services	424	436	429
15.Health Care/Social Assis	904	930	920
16.Arts/Entertain/Recreatio	118	122	116
17.Accomodations/Food Svcs	309	311	303
18.Other Svcs/Except PubAdm	375	376	370
19.PubAdmin/Active Duty Mil	284	276	272

Value	S10JLINDC	S11JLINDC	S12JLINDC
.M=Oth missing	1496	1217	1027
.P=From previous Census cod	8085	7229	6181
.U=Unmarried	7799	7474	7127
.V=Spouse NR	722	592	593
01.Agric/Forest/Fish/Huntin	88	77	76
02.Mining	17	14	10
03.Utilities	46	41	37
04.Construction	285	299	274
05.Manufacturing (continued	610	607	558
06.Wholesale Trade	134	152	138
07.Retail Trade	336	337	316
08.Transport/Warehousing	207	214	201
09.Information	92	89	89
10.Finance/Insurance	151	160	159
11.Real Estate/Rental/Leasi	116	122	115
12.Prof/Scientific/Tech Svc	222	228	211
13.Mgmnt/Admin/Support/Wast	163	176	163
14.Educational Services	280	291	276
15.Health Care/Social Assis	513	545	529
16.Arts/Entertain/Recreatio	79	74	70
17.Accomodations/Food Svcs	186	194	188
18.Other Svcs/Except PubAdm	232	246	236
19.PubAdmin/Active Duty Mil	175	176	173

## How Constructed

The industry code for the job with the longest reported tenure is assigned once the job with the longest tenure is identified. It can be the current job, a past job held since the first interview, or a job reported in the job history data. The job history questions were not asked in Waves 2A or 3A. For those in the AHEAD entry cohort, job history information was collected at Wave 4.

The industry of any job held in Waves 1, 2H, 3H and 4 is usually available. In Waves 2A and 3A, industry information is NOT collected for any job.

RwJLIND is set to the industry code associated with the longest-held job reported. Industry codes are simply recoded for

missing values.

From Wave 7-10, HRS uses a different set of industry codes, based on the 2002 Census. And from Wave 10 forward, HRS uses a set of industry codes based on the 2007 Census. Before Wave 7 there are 13 possible industry codes; from Wave 7 forward, there are 19 codes. R7JLINDB begins with R7JLINDB and provides the 2002 code set. R7JLINDC begins with R10JLINDC and provides the 2007 code set.

If the longest tenured job is not a job for which industry is reported in Wave 7, then R7JLINDB is set to .P, for industry taken from prior wave and R7JLIND provides the 1980 Census-based industry. If the longest tenured job provides an industry code in Wave 7 and is one that continues from prior wave, the Respondent may have values for both R7JLIND and R7JLINDB. If the longest tenured job's industry is only reported in Wave 7, then R7JLIND is set to .B, to indicate that the industry code for the longest tenured job is taken from Wave 7 when HRS begins to use the 2002 Census industries, which R7JLINDB provides.

If the longest tenured job is not a job for which industry is reported in Wave 10, then R10JLINDC is set to .P, for industry taken from prior wave and R10JLIND provides the 1980 Census-based industry or R10JLINDB provides the 2002 Census-based industry code. If the longest tenured job provides an industry code in Wave 10 and is one that continues from prior wave, the Respondent may have values for R10JLIND, R10JLINDB and R10JLINDC. If the longest tenured job's industry is only reported in Wave 10, then R10JLIND and R10JLINDB are set to .B, to indicate that the industry code for the longest tenured job is taken from Wave 10 when HRS begins to use the 2007 Census industries, which R10JLINDC provides.

The spouse variable is taken from the wave "w" spouse's self-report, i.e., from the spouse's R7JLIND , R7JLINDB and R7JLINDC.

### **Cross Wave Differences in Original HRS Data**

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. If the last job ended more than 20 years ago, the amount of information gathered is very limited. Otherwise, questions ask about the starting date, occupation, and industry of the last job. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working but has worked during the last two years, information about that last

job is collected, including start and stop dates and occupation. Industry of the last job is not available. In addition, most people are asked if they ever worked for ten or more years. If so they are then asked if they worked for one employer for ten or more years, and if so, the occupation and number of years at the longest held job are collected. If not, another question asks the total years worked for pay.

Each interview obtains the Respondent's current work status. At the Respondent's first interview questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same. Note that in Waves 2A and 3A, industry information is NOT collected for any job.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

Before Wave 7, the industry codes are based on those used in the 1980 Census, assigned to one of 13 categories. From Wave 7-10, they are based on 2002 Census industries, assigned to one of 19 categories. From Wave 10 forward, they are based on 2007 Census industries, also assigned to one of 19 categories.

## HRS Variables Used

HRS 1992:	
V3406	G4:IND:1980 CENSUS IND
V3431	G18:IND:1980 CENSUS IND
V3605	H5:IND:1980 CENSUS IND
HRS 1994:	
W7006	G4.INDUSTRY
W7106	H5.INDUSTRY
HRS 1996:	
E2730M	G41A/G42. IND
E3131M	GG3A/GG6. IND
E3334M	GH5/GH6. IND
HRS 1998:	
F3253M	G41A.IND - MASKED
F3650M	GG4.IND - MASKED
F3839M	GH5.IND - MASKED
HRS 2000:	
G3503M	G41A.IND - MASKED
G3960M	GG4.IND - MASKED
G4101M	GH5.IND - MASKED
HRS 2002:	
HJ166M	WORK IN WHAT INDUSTRY - MASKED
HL013M	INDUSTRY - MASKED
HRS 2004:	
JJ166M	WORK IN WHAT INDUSTRY - MASKED
JJ166M_00	WORK IN WHAT INDUSTRY 2000 Census-MASKED
JK008M	INDUSTRY - MASKED
JL013M	INDUSTRY - MASKED
JL013M_00	INDUSTRY 2000 Census- MASKED
HRS 2006:	
KJ166M	WORK IN WHAT INDUSTRY-MASKED
KK008M	INDUSTRY - MASKED
KL013M	INDUSTRY - MASKED
HRS 2008:	



LJ166M	WORK IN WHAT INDUSTRY-MASKED
LK008M	INDUSTRY - MASKED
LL013M	INDUSTRY - MASKED
HRS 2010:	
MJ166M	WORK IN WHAT INDUSTRY-MASKED
MJ166M_10	WORK IN WHAT INDUSTRY 2007 Census-MASKED
MK008M	INDUSTRY - MASKED
ML013M	INDUSTRY - MASKED
ML013M_10	INDUSTRY 2007 Census - MASKED
HRS 2012:	
NJ166M	WORK IN WHAT INDUSTRY-MASKED
NK008M	INDUSTRY - MASKED
NL013M	INDUSTRY - MASKED
HRS 2014:	
OJ166M	WORK IN WHAT INDUSTRY-MASKED
OK008M	INDUSTRY - MASKED
OL013M	INDUSTRY - MASKED

<b>Job History Status</b>
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Wave	Variable	Label	Type
1	R1JJOBS	R1JJOBS:W1 Status of R Job History	Categ
2	R2JJOBS	R2JJOBS:W2 Status of R Job History	Categ
3	R3JJOBS	R3JJOBS:W3 Status of R Job History	Categ
4	R4JJOBS	R4JJOBS:W4 Status of R Job History	Categ
5	R5JJOBS	R5JJOBS:W5 Status of R Job History	Categ
6	R6JJOBS	R6JJOBS:W6 Status of R Job History	Categ
7	R7JJOBS	R7JJOBS:W7 Status of R Job History	Categ
8	R8JJOBS	R8JJOBS:W8 Status of R Job History	Categ
9	R9JJOBS	R9JJOBS:W9 Status of R Job History	Categ
10	R10JJOBS	R10JJOBS:W10 Status of R Job History	Categ
11	R11JJOBS	R11JJOBS:W11 Status of R Job History	Categ
12	R12JJOBS	R12JJOBS:W12 Status of R Job History	Categ
1	S1JJOBS	S1JJOBS:W1 Status of S Job History	Categ
2	S2JJOBS	S2JJOBS:W2 Status of S Job History	Categ
3	S3JJOBS	S3JJOBS:W3 Status of S Job History	Categ
4	S4JJOBS	S4JJOBS:W4 Status of S Job History	Categ
5	S5JJOBS	S5JJOBS:W5 Status of S Job History	Categ
6	S6JJOBS	S6JJOBS:W6 Status of S Job History	Categ
7	S7JJOBS	S7JJOBS:W7 Status of S Job History	Categ
8	S8JJOBS	S8JJOBS:W8 Status of S Job History	Categ
9	S9JJOBS	S9JJOBS:W9 Status of S Job History	Categ
10	S10JJOBS	S10JJOBS:W10 Status of S Job History	Categ
11	S11JJOBS	S11JJOBS:W11 Status of S Job History	Categ
12	S12JJOBS	S12JJOBS:W12 Status of S Job History	Categ
1	R1JNJOB	R1JNJOB:W1 # Jobs Reported	Cont
2	R2JNJOB	R2JNJOB:W2 # Jobs Reported	Cont
3	R3JNJOB	R3JNJOB:W3 # Jobs Reported	Cont
4	R4JNJOB	R4JNJOB:W4 # Jobs Reported	Cont
5	R5JNJOB	R5JNJOB:W5 # Jobs Reported	Cont
6	R6JNJOB	R6JNJOB:W6 # Jobs Reported	Cont
7	R7JNJOB	R7JNJOB:W7 # Jobs Reported	Cont
8	R8JNJOB	R8JNJOB:W8 # Jobs Reported	Cont
9	R9JNJOB	R9JNJOB:W9 # Jobs Reported	Cont
10	R10JNJOB	R10JNJOB:W10 # Jobs Reported	Cont
11	R11JNJOB	R11JNJOB:W11 # Jobs Reported	Cont
12	R12JNJOB	R12JNJOB:W12 # Jobs Reported	Cont
1	S1JNJOB	S1JNJOB:W1 # Jobs Reported	Cont
2	S2JNJOB	S2JNJOB:W2 # Jobs Reported	Cont
3	S3JNJOB	S3JNJOB:W3 # Jobs Reported	Cont
4	S4JNJOB	S4JNJOB:W4 # Jobs Reported	Cont
5	S5JNJOB	S5JNJOB:W5 # Jobs Reported	Cont
6	S6JNJOB	S6JNJOB:W6 # Jobs Reported	Cont
7	S7JNJOB	S7JNJOB:W7 # Jobs Reported	Cont
8	S8JNJOB	S8JNJOB:W8 # Jobs Reported	Cont
9	S9JNJOB	S9JNJOB:W9 # Jobs Reported	Cont
10	S10JNJOB	S10JNJOB:W10 # Jobs Reported	Cont
11	S11JNJOB	S11JNJOB:W11 # Jobs Reported	Cont
12	S12JNJOB	S12JNJOB:W12 # Jobs Reported	Cont
1	R1JMISS	R1JMISS:W1 # Jobs with missing dates	Cont
2	R2JMISS	R2JMISS:W2 # Jobs with missing dates	Cont
3	R3JMISS	R3JMISS:W3 # Jobs with missing dates	Cont
4	R4JMISS	R4JMISS:W4 # Jobs with missing dates	Cont
5	R5JMISS	R5JMISS:W5 # Jobs with missing dates	Cont
6	R6JMISS	R6JMISS:W6 # Jobs with missing dates	Cont
7	R7JMISS	R7JMISS:W7 # Jobs with missing dates	Cont
8	R8JMISS	R8JMISS:W8 # Jobs with missing dates	Cont
9	R9JMISS	R9JMISS:W9 # Jobs with missing dates	Cont
10	R10JMISS	R10JMISS:W10 # Jobs with missing dates	Cont
11	R11JMISS	R11JMISS:W11 # Jobs with missing dates	Cont
12	R12JMISS	R12JMISS:W12 # Jobs with missing dates	Cont
1	S1JMISS	S1JMISS:W1 # Jobs with missing dates	Cont

2	S2JMISS	S2JMISS:W2 # Jobs with missing dates	Cont
3	S3JMISS	S3JMISS:W3 # Jobs with missing dates	Cont
4	S4JMISS	S4JMISS:W4 # Jobs with missing dates	Cont
5	S5JMISS	S5JMISS:W5 # Jobs with missing dates	Cont
6	S6JMISS	S6JMISS:W6 # Jobs with missing dates	Cont
7	S7JMISS	S7JMISS:W7 # Jobs with missing dates	Cont
8	S8JMISS	S8JMISS:W8 # Jobs with missing dates	Cont
9	S9JMISS	S9JMISS:W9 # Jobs with missing dates	Cont
10	S10JMISS	S10JMISS:W10 # Jobs with missing dates	Cont
11	S11JMISS	S11JMISS:W11 # Jobs with missing dates	Cont
12	S12JMISS	S12JMISS:W12 # Jobs with missing dates	Cont
1	R1JNJOB5	R1JNJOB5:W1 # 5+ year-jobs reported	Cont
2	R2JNJOB5	R2JNJOB5:W2 # 5+ year-jobs reported	Cont
3	R3JNJOB5	R3JNJOB5:W3 # 5+ year-jobs reported	Cont
4	R4JNJOB5	R4JNJOB5:W4 # 5+ year-jobs reported	Cont
5	R5JNJOB5	R5JNJOB5:W5 # 5+ year-jobs reported	Cont
6	R6JNJOB5	R6JNJOB5:W6 # 5+ year-jobs reported	Cont
7	R7JNJOB5	R7JNJOB5:W7 # 5+ year-jobs reported	Cont
8	R8JNJOB5	R8JNJOB5:W8 # 5+ year-jobs reported	Cont
9	R9JNJOB5	R9JNJOB5:W9 # 5+ year-jobs reported	Cont
10	R10JNJOB5	R10JNJOB5:W10 # 5+ year-jobs reported	Cont
11	R11JNJOB5	R11JNJOB5:W11 # 5+ year-jobs reported	Cont
12	R12JNJOB5	R12JNJOB5:W12 # 5+ year-jobs reported	Cont
1	S1JNJOB5	S1JNJOB5:W1 # 5+ year-jobs reported	Cont
2	S2JNJOB5	S2JNJOB5:W2 # 5+ year-jobs reported	Cont
3	S3JNJOB5	S3JNJOB5:W3 # 5+ year-jobs reported	Cont
4	S4JNJOB5	S4JNJOB5:W4 # 5+ year-jobs reported	Cont
5	S5JNJOB5	S5JNJOB5:W5 # 5+ year-jobs reported	Cont
6	S6JNJOB5	S6JNJOB5:W6 # 5+ year-jobs reported	Cont
7	S7JNJOB5	S7JNJOB5:W7 # 5+ year-jobs reported	Cont
8	S8JNJOB5	S8JNJOB5:W8 # 5+ year-jobs reported	Cont
9	S9JNJOB5	S9JNJOB5:W9 # 5+ year-jobs reported	Cont
10	S10JNJOB5	S10JNJOB5:W10 # 5+ year-jobs reported	Cont
11	S11JNJOB5	S11JNJOB5:W11 # 5+ year-jobs reported	Cont
12	S12JNJOB5	S12JNJOB5:W12 # 5+ year-jobs reported	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JJOB5	12652	2.09	1.36	0.0	9.0
R2JJOB5	19642	2.46	1.98	0.0	9.0
R3JJOB5	17991	2.44	1.94	0.0	9.0
R4JJOB5	21384	2.35	1.79	0.0	9.0
R5JJOB5	19579	2.36	1.79	0.0	9.0
R6JJOB5	18165	2.35	1.76	0.0	9.0
R7JJOB5	20129	2.27	1.64	0.0	9.0
R8JJOB5	18469	2.26	1.60	0.0	9.0
R9JJOB5	17217	2.24	1.55	0.0	9.0
R10JJOB5	22034	2.17	1.54	0.0	9.0
R11JJOB5	20554	2.15	1.46	0.0	9.0
R12JJOB5	18747	2.15	1.43	0.0	9.0
S1JJOB5	9900	2.08	1.31	0.0	9.0
S2JJOB5	13088	2.34	1.75	0.0	9.0
S3JJOB5	11915	2.35	1.75	0.0	9.0
S4JJOB5	13978	2.29	1.63	0.0	9.0
S5JJOB5	12730	2.29	1.62	0.0	9.0
S6JJOB5	11639	2.28	1.59	0.0	9.0
S7JJOB5	12972	2.20	1.45	0.0	9.0
S8JJOB5	11735	2.19	1.42	0.0	9.0

S9JJOBS	10646	2.18	1.37	0.0	9.0
S10JJOBS	13513	2.13	1.38	0.0	9.0
S11JJOBS	12488	2.12	1.32	0.0	9.0
S12JJOBS	11027	2.12	1.29	0.0	9.0
R1JNJOB	12652	1.76	1.08	0.0	6.0
R2JNJOB	19642	1.56	1.13	0.0	7.0
R3JNJOB	17991	1.67	1.21	0.0	8.0
R4JNJOB	21384	1.81	1.28	0.0	8.0
R5JNJOB	19579	1.91	1.36	0.0	9.0
R6JNJOB	18165	2.03	1.44	0.0	10.0
R7JNJOB	20129	2.09	1.47	0.0	10.0
R8JNJOB	18469	2.20	1.53	0.0	11.0
R9JNJOB	17217	2.28	1.58	0.0	11.0
R10JNJOB	22034	2.24	1.58	0.0	11.0
R11JNJOB	20554	2.34	1.61	0.0	12.0
R12JNJOB	18747	2.44	1.66	0.0	12.0
S1JNJOB	9900	1.77	1.07	0.0	6.0
S2JNJOB	13088	1.67	1.14	0.0	7.0
S3JNJOB	11915	1.78	1.23	0.0	8.0
S4JNJOB	13978	1.91	1.28	0.0	8.0
S5JNJOB	12730	2.02	1.36	0.0	9.0
S6JNJOB	11639	2.15	1.45	0.0	10.0
S7JNJOB	12972	2.20	1.47	0.0	10.0
S8JNJOB	11735	2.31	1.54	0.0	11.0
S9JNJOB	10646	2.40	1.58	0.0	11.0
S10JNJOB	13513	2.32	1.57	0.0	11.0
S11JNJOB	12488	2.41	1.60	0.0	12.0
S12JNJOB	11027	2.51	1.65	0.0	12.0
R1JMISS	12156	0.27	0.67	0.0	6.0
R2JMISS	14140	0.40	0.84	0.0	6.0
R3JMISS	13494	0.41	0.86	0.0	7.0
R4JMISS	17848	0.46	0.90	0.0	7.0
R5JMISS	16441	0.46	0.91	0.0	7.0
R6JMISS	15506	0.46	0.90	0.0	7.0
R7JMISS	17847	0.44	0.87	0.0	7.0
R8JMISS	16570	0.44	0.87	0.0	7.0
R9JMISS	15633	0.43	0.86	0.0	7.0
R10JMISS	20525	0.42	0.85	0.0	7.0
R11JMISS	19318	0.42	0.86	0.0	7.0
R12JMISS	17729	0.43	0.86	0.0	7.0
S1JMISS	9522	0.27	0.67	0.0	6.0
S2JMISS	10273	0.39	0.83	0.0	6.0
S3JMISS	9601	0.39	0.84	0.0	6.0
S4JMISS	12217	0.43	0.88	0.0	6.0
S5JMISS	11251	0.43	0.88	0.0	6.0
S6JMISS	10433	0.43	0.87	0.0	6.0
S7JMISS	11956	0.41	0.85	0.0	6.0
S8JMISS	10920	0.41	0.84	0.0	6.0
S9JMISS	9994	0.40	0.83	0.0	6.0
S10JMISS	12864	0.41	0.83	0.0	6.0
S11JMISS	11942	0.41	0.84	0.0	6.0
S12JMISS	10592	0.41	0.84	0.0	6.0
R1JNJOB5	12652	1.38	1.07	0.0	6.0
R2JNJOB5	19616	1.05	1.16	0.0	7.0

R3JNJOB5	17983	1.13	1.19	0.0	7.0
R4JNJOB5	21384	1.28	1.21	0.0	7.0
R5JNJOB5	19579	1.34	1.23	0.0	7.0
R6JNJOB5	18165	1.40	1.25	0.0	7.0
R7JNJOB5	20129	1.45	1.24	0.0	8.0
R8JNJOB5	18469	1.51	1.25	0.0	8.0
R9JNJOB5	17217	1.56	1.26	0.0	8.0
R10JNJOB5	22034	1.57	1.28	0.0	8.0
R11JNJOB5	20554	1.63	1.29	0.0	8.0
R12JNJOB5	18747	1.67	1.30	0.0	8.0
S1JNJOB5	9900	1.40	1.07	0.0	6.0
S2JNJOB5	13070	1.19	1.17	0.0	7.0
S3JNJOB5	11910	1.26	1.18	0.0	7.0
S4JNJOB5	13978	1.40	1.19	0.0	7.0
S5JNJOB5	12730	1.46	1.21	0.0	7.0
S6JNJOB5	11639	1.52	1.22	0.0	7.0
S7JNJOB5	12972	1.56	1.21	0.0	8.0
S8JNJOB5	11735	1.62	1.23	0.0	8.0
S9JNJOB5	10646	1.68	1.24	0.0	8.0
S10JNJOB5	13513	1.66	1.26	0.0	8.0
S11JNJOB5	12488	1.71	1.28	0.0	8.0
S12JNJOB5	11027	1.75	1.29	0.0	8.0

### Categorical Variable Codes

Value	R1JJOB5	R2JJOB5	R3JJOB5	R4JJOB5	R5JJOB5	R6JJOB5	R7JJOB5
0.Never worked	496	863	807	1030	872	757	811
1.Worked, no 5+ year jobs	1237	1022	861	1086	980	884	1225
2.Worked, 1+ job for 5+ yrs	10365	15919	14687	17558	16155	15110	16769
8.Worked, DK if any 5+ yr j	541	1015	998	1355	1237	1124	1072
9.DK if worked	13	823	638	355	335	290	252
Value	R8JJOB5	R9JJOB5	R10JJOB5	R11JJOB5	R12JJOB5		
0.Never worked	705	637	1024	896	758		
1.Worked, no 5+ year jobs	1055	966	1607	1447	1277		
2.Worked, 1+ job for 5+ yrs	15541	14589	18205	17169	15794		
8.Worked, DK if any 5+ yr j	971	865	898	907	811		
9.DK if worked	197	160	300	135	107		

Value	S1JJOB5	S2JJOB5	S3JJOB5	S4JJOB5	S5JJOB5	S6JJOB5	S7JJOB5
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.Never worked	353	477	415	494	410	347	380
1.Worked, no 5+ year jobs	924	728	595	742	665	593	795
2.Worked, 1+ job for 5+ yrs	8214	10925	10011	11806	10814	9956	11115
8.Worked, DK if any 5+ yr j	405	627	613	787	711	629	599
9.DK if worked	4	331	281	149	130	114	83
Value	S8JJOB5	S9JJOB5	S10JJOB5	S11JJOB5	S12JJOB5		
.U=Unmarried	6417	6206	7799	7474	7127		
.V=Spouse NR	317	365	722	592	593		
0.Never worked	328	279	484	424	349		
1.Worked, no 5+ year jobs	674	600	965	844	727		
2.Worked, 1+ job for 5+ yrs	10140	9270	11476	10697	9507		
8.Worked, DK if any 5+ yr j	534	450	448	471	405		
9.DK if worked	59	47	140	52	39		

## How Constructed

RwJJOB5 gives the status of the Respondent's job history including jobs reported as current at interviews. RwJNJOB5 is the number of jobs the Respondent reports having through job history and job transition questions at each interview. RwJMISS is the number of these jobs that are missing dates, including jobs about which no questions are ever asked. RwJNJOB5 is the number of jobs the Respondent reports holding for 5 or more years, including those reported in job history, and through job transition questions.

SwJJOB5, SwJNJOB5, SwJMISS, and SwJNJOB5 are the same information for the Respondent's spouse or partner.

RwJJOB5 is a categorical variable which is set to "0" if the Respondent never reports working; "1" if the Respondent has worked but has a tenure of less than 5 years on all jobs; "2" if the Respondent has had at least one job lasting 5 or more years; "8" if the Respondent has worked but there is not enough information to determine whether any job lasted 5 or more years; and "9" when whether the Respondent ever worked is missing. It is based on examination of reports on numbers of jobs in job history and the lengths of those jobs, together with the jobs reported at each interview.

RwJNJOB5 includes the job last worked, if the Respondent is unemployed at her/his first interview, the number of jobs lasting 5 or more years as reported in job history, and the current count of jobs observed at each interview. RwJMISS includes any jobs where the reported dates are missing. It also includes jobs for which no dates are asked. For example, if the Respondent reports having 7 jobs lasting 5 or more years in job history, the questions will ask for dates on at most 3 of these jobs, so RwJMISS would be at least 4.

RwJNJOB5 counts only those jobs that are determined to last 5 or more years. The length of a job is determined by examining start and stop dates, if available. If a Respondent reports having multiple 5-year jobs in job history, those for which dates are missing or not ascertained are counted. In some cases, an individual may report having a 5-year job, but when asked for the start and stop dates for the job, provides dates that are short of the 5-year period. Such jobs are NOT counted in RwJNJOB5.

The spouse variables are taken from the Wave "w" spouse's self-report, e.g., S3JJOB5 is taken from the Wave 3 spouse's RwJJOB5.

## Cross Wave Differences in Original HRS Data

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. If the last job ended more than 20 years ago, the amount of information gathered is very limited. Otherwise, questions ask about the starting date, occupation, and industry of the last job. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

"Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?"

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working but has worked during the last two years, information about that last job is collected, including start and stop dates and occupation. Industry of the last job is not available. In addition, most people are asked if they ever worked for ten or more years. If so, they are then asked if they worked for one employer for ten or more years, and if so, the occupation and number of years at the longest held job are collected. If not, another question asks the total years worked for pay.

Each interview obtains the Respondent's current work status. At the Respondent's first interview, questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same. Note that in Waves 2A and 3A, industry information is NOT collected for any job.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc. Wave 5 is preliminary data from which occupation and industry codes have been omitted.

## HRS Variables Used

HRS 1992:	
V12717	F2:ANY WRK FOR PAY :IND
V12718	F3:WHO WORK FOR :IND
V2708	F1a:MONTH UNEMPLOYED
V2711	F1c:LAST WRK THIS JOB-MO
V2712	F1c:LAST WRK THIS JOB-YR
V2713	F1d:MO BECAME DISABLED
V2714	F1d:YR BECAME DISABLED

V2715	F1e:MONTH RETIRED
V2716	F1e:YEAR RETIRED
V2717	F2:ANY WRK FOR PAY :IMP
V2718	F3:WHO WORK FOR :IMP
V2816	F23:YR STARTED FOR EMPLR
V2834	F33:YR STRT THIS BUSINES
V3402	G1A:MO LST WRK W/PAY
V3403	G1A:YR LST WRK W/PAY
V3418	G13:YR STRT WRK JOB
V3442	G25:R/SE:YR STRT @ BUS.
V3604	H4:WHN STRT WRKNG JOB-YR
V3607	H7:YEAR STP WRKNG AT JB
V3704	H25:1ST:YR STRTD THERE
V3705	H26:1ST:YR LEFT THERE
V3804	H25:NXT:YR STRTD THERE
V3805	H26:NXT:YR LEFT THERE
AHEAD 1993:	
B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1178	G2. CURRENTLY SELF EMPLOYED
B1182	G4. CURRENT WORK START YEAR
B1183	G4. CURRENT WORK START YEARS AGO
B1184	G4. CURRENT WORK START AT AGE
B1207	G11. JOB LAST 2 YEARS: END MONTH
B1208	G11. JOB LAST 2 YEARS: END YEAR
B1221	G14. JOB LAST 2 YRS START YEAR
B1222	G14. JOB LAST 2 YRS START YEARS AGO
B1223	G14. JOB LAST 2 YRS START AT AGE
B1232	G20. EVER WORK 10/+ YRS?
B1235	G22. 10/+ YRS ONE EMP: # YEARS
HRS 1994:	
W3307	FA1a.UNEMPLOYED-MONTH
W3308	FA1b.UNEMPLOYED-YEAR
W3310	FA1d.LAST WORKED ON JOB-
W3311	FA1e.LAST WORKED ON JOB-
W3312	FA1f.DISABLED-MONTH
W3313	FA1f.DISABLED-YEAR
W3314	FA1h.RETIRED-MONTH
W3315	FA1h.RETIRED-YEAR
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS
W3318	FA5.STOPPED WORKING FOR
W3319	FA5.STOPPED WORKING FOR
W3458	FA19.STILL WORKING FOR W
W3503	FA26.STOPPED WORKING FOR
W3504	FA26.STOPPED WORKING FOR
W3662	FA59.START WORK FOR EMPL
W3663	FA59.START WORK FOR EMPL
W4200	FB2.STOPPED WORK FOR EMP
W4201	FB2a.STOPPED WORK FOR EM
W4327	FB22.STARTED S-E WORK-MO
W4328	FB22a.STARTED S-E WORK-Y
W4800	FC2.MONTH STOPPED SELF-E
W4801	FC2a.YEAR STOPPED SELF-E
W4897	FC16.MONTH STOPPED WORK
W4898	FC16a.YEAR STOPPED WORK
W7002	G1a.LAST WORKED-YEAR
W7003	G1a.LAST WORKED-YEARS AG
W7004	G1a.LAST WORKED-MONTH



W7018	G13.START WORK-YEAR
W7019	G13.START WORK-YEARS AGO
W7020	G13.START WORK-AGE
W7103	H4.START WORK-YEAR
W7104	H4.START WORK-YEARS AGO
W7105	H4.START WORK-AGE
W7108	H7.LEFT EMPLOYER-YEAR
W7109	H7.LEFT EMPLOYER-YEARS A
W7110	H7.LEFT EMPLOYER-AGE
W7162	EMP1. H25.START WORK-YEA
W7163	EMP1. H26.LEFT EMPLOYER-
W7196	EMP2. H25.START WORK-YEA
W7197	EMP2. H26.LEFT EMPLOYER-
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2633	GA1D. MONTH LAST WORKED - TEMPORARY
D2634	GA1E. YEAR LAST WORKED - TEMPORARY
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2643	GA1J.YEAR RETIRED
D2644	GA1J.MONTH RETIRED
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2654	GA5. MONTH STOPPED SELF-EMPL
D2655	GA5A. YEAR STOPPED SELF-EMPL
D2747	GA19. STILL WORKING SAME EMPLOYER
D2759	GA26. MONTH STOPPED WORKING WAVE I EMPLO
D2760	GA26A. YEAR STOPPED WORKING WAVE I EMPLO
D2831	GA43. MONTH STARTED CURRENT WORK
D2832	GA43A. YEAR STARTED CURRENT WORK
D3188	GB2. MONTH STOPPED SELF-EMPL
D3189	GB2A. YEAR STOPPED SELF-EMPL
D3545	GC2. MONTH STOPPED SELF-EMPL
D3546	GC2A. YEAR STOPPED SELF-EMPL
D3639	GC16. MONTH STOPPED WORKING WAVE I EMPLO
D3640	GC16A. YEAR STOPPED WORKING WAVE I EMPLO
HRS 1996:	
E2612	G1A.UNEMPLOYED-MONTH
E2613	G1B.UNEMPLOYED-YEAR
E2616	G1D.LAST WORKED ON JOB-MONTH
E2617	G1E.LAST WORKED ON JOB-YEAR
E2619	G1F.DISABLED-MONTH
E2620	G1G.DISABLED-YEAR
E2622	G1H.RETIRED-MONTH
E2623	G1J.RETIRED-YEAR
E2627	G2.WORKING FOR PAY
E2628	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
E2630	G5.STOPPED WORKING FOR SELF-MONTH
E2631	G5A.STOPPED WORKING FOR SELF-YEAR
E2654	G19A.STILL WORKNG FOR PREV WAVE EMPLOYER
E2655	G19B.STILL WORKING PREV EMPLOYER
E2667	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
E2668	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
E2825	G63.START WORK FOR EMPLOYER-MONTH
E2826	G63A.START WORK FOR EMPLOYER-YEAR

E3127	GG1A.LAST WORKED-YEAR
E3128	GG1A.LAST WORKED-YEARS AGO
E3129	GG1A.LAST WORKED-MONTH
E3146	GG13.START WORK-YEAR
E3147	GG13.START WORK-YEARS AGO
E3148	GG13.START WORK-AGE
E3329	GH4.START WORK-YEAR
E3330	GH4.START WORK-YEARS AGO
E3331	GH4.START WORK-AGE
E3337	GH7.LEFT EMPLOYER-YEAR
E3338	GH7.LEFT EMPLOYER-YEARS AGO
E3339	GH7.LEFT EMPLOYER-AGE
HRS 1998:	
F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3120	G1D.LAST WORKED ON JOB-MONTH
F3121	G1E.LAST WORKED ON JOB-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3126	G1H.RETIRED-MONTH
F3127	G1J.RETIRED-YEAR
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3134	G5.STOPPED WORKING FOR SELF-MONTH
F3135	G5A.STOPPED WORKING FOR SELF-YEAR
F3158	G19A.STILL WORKING FOR PREV WAVE EMPLOYE
F3166	G19B.STILL WORKING PREV EMPLOYER
F3188	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
F3189	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
F3348	G63.START WORK FOR EMPLOYER-MONTH
F3349	G63A.START WORK FOR EMPLOYER-YEAR
F3644	GG1A1.LAST WORKED WHEN-YEAR
F3645	GG1A2.LAST WORKED WHEN-YEARS AGO
F3647	GG1A.LAST WORKED-MONTH
F3664	GG13.START WORK-YEAR
F3665	GG13.START WORK-YEARS AGO
F3666	GG13.START WORK-AGE
F3834	GH4.START WORK-YEAR
F3835	GH4.START WORK-YEARS AGO
F3836	GH4.START WORK-AGE
F3842	GH7.LEFT EMPLOYER-YEAR
F3843	GH7.LEFT EMPLOYER-YEARS AGO
F3844	GH7.LEFT EMPLOYER-AGE
F3903_1	GH25.START WORK FOR EMPLOYER-YEAR
F3903_2	GH25.START WORK FOR EMPLOYER-YEAR
F3904_1	GH26.LEFT EMPLOYER-YEAR
F3904_2	GH26.LEFT EMPLOYER-YEAR
HRS 2000:	
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3370	G1D.LAST WORKED ON JOB-MONTH
G3371	G1E.LAST WORKED ON JOB-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3376	G1H.RETIRED-MONTH
G3377	G1J.RETIRED-YEAR
G3381	G2.WORKING FOR PAY
G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3384	G5.STOPPED WORKING FOR SELF-MONTH

G3385	G5A.STOPPED WORKING FOR SELF-YEAR
G3416	G19B.STILL WORKING PREV EMPLOYER
G3437	G26.STOP WORK PREV WAVE EMPLOYR-MO
G3438	G26A.STOP WORK PREV WAVE EMPLOYR-YR
G3607	G63.START WORK FOR EMPLOYER-MONTH
G3608	G63A.START WORK FOR EMPLOYER-YEAR
G3954	GG1A1.LAST WORKED WHEN-YEAR
G3955	GG1A2.LAST WORKED WHEN-YEARS AGO
G3957	GG1A.LAST WORKED-MONTH
G3974	GG13.START WORK-YEAR
G3975	GG13Y1. START WORK-YEARS AGO
G3976	GG13Y2. START WORK-AGE
G4096	GH4.START WORK-YEAR
G4097	GH4Y1. START WORK-YEARS AGO
G4098	GH4Y2. START WORK-AGE
G4105	GH7Y1. LEFT EMPLOYER-YEARS AGO
G4106	GH7Y2. LEFT EMPLOYER-AGE
G4176_1	GH25.START WORK FOR EMPLOYER-YEAR
G4176_2	GH25.START WORK FOR EMPLOYER-YEAR
G4177_1	GH26.LEFT EMPLOYER-YEAR
G4177_2	GH26.LEFT EMPLOYER-YEAR
HRS 2002:	
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ011	MO LAST WORKED - LAID OFF
HJ012	YR LAST WORKED - LAID OFF
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ017	RETIRED-MO
HJ018	RETIRED-YR
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ023	STOPPED WORKING FOR SLF-MO
HJ024	STOPPED WORKING FOR SLF- YR
HJ045	STILL WORKING PREV EMPLOYER
HJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
HJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
HJ248	MO-START WORK FOR CURRENT EMPLOYER
HJ249	YR-START WORK FOR CURRENT EMPLOYER
HK002	LAST WRKED WHEN-YR
HK003	LAST WRKED WHEN-YRS AGO
HK004	LAST WRKED-MO
HK018	START WRK-YR
HK019	START WRK-YRS AGO
HK020	START WRK- AT AGE
HL009	START WRK-YR
HL010	START WORK-YRS AGO
HL011	START WORK- AT AGE
HL017	LEFT EMPLOYER-YRS AGO
HL018	LEFT EMPLOYER- AT AGE
HL078_1	START WRK FOR EMP- INC PENSION- YR- 1
HL078_2	START WRK FOR EMP- INC PENSION- YR- 2
HL079_1	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
HL079_2	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2004:	
JJ007	MO UNEMPLOYED
JJ008	YR UNEMPLOYED
JJ011	MO LAST WORKED - LAID OFF
JJ012	YR LAST WORKED - LAID OFF

JJ014	DISABLED-MO
JJ015	DISABLED- YR
JJ017	RETIRED-MO
JJ018	RETIRED-YR
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ023	STOPPED WORKING FOR SLF-MO
JJ024	STOPPED WORKING FOR SLF- YR
JJ045	STILL WORKING PREV EMPLOYER
JJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
JJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
JJ248	MO-START WORK FOR CURRENT EMPLOYER
JJ249	YR-START WORK FOR CURRENT EMPLOYER
JK003	WORK FOR PAY MORE THAN FEW MOS
JK004	LAST WRKED WHEN-YR
JK005	LAST WRKED WHEN-YRS AGO
JK006	LAST WRKED-MO
JK022	START WRK-YR
JK023	START WRK-YRS AGO
JK024	START WRK- AT AGE
JL009	START WRK-YR
JL010	START WORK-YRS AGO
JL011	START WORK- AT AGE
JL017	LEFT EMPLOYER-YRS AGO
JL018	LEFT EMPLOYER- AT AGE
JL034A	START WRK FOR EMP- INC PENSION- YR- 1
JL034B	START WRK FOR EMP- INC PENSION- YR- 2
JL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
JL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2006:	
KJ007	MO UNEMPLOYED
KJ008	YR UNEMPLOYED
KJ011	MO LAST WORKED - LAID OFF
KJ012	YR LAST WORKED - LAID OFF
KJ014	DISABLED-MO
KJ015	DISABLED- YR
KJ017	RETIRED-MO
KJ018	RETIRED-YR
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ023	STOPPED WORKING FOR SLF-MO
KJ024	STOPPED WORKING FOR SLF- YR
KJ045	STILL WORKING PREV EMPLOYER
KJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
KJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
KJ248	MO-START WORK FOR CURRENT EMPLOYER
KJ249	YR-START WORK FOR CURRENT EMPLOYER
KK003	WORK FOR PAY MORE THAN FEW MOS
KK004	LAST WRKED WHEN-YR
KK005	LAST WRKED WHEN-YRS AGO
KK006	LAST WRKED-MO
KK022	START WRK-YR
KK023	START WRK-YRS AGO
KK024	START WRK- AT AGE
KL009	START WRK-YR
KL010	START WORK-YRS AGO
KL011	START WORK- AT AGE
KL017	LEFT EMPLOYER-YRS AGO
KL018	LEFT EMPLOYER- AT AGE

KL034A	START WRK FOR EMP- INC PENSION- YR- 1
KL034B	START WRK FOR EMP- INC PENSION- YR- 2
KL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
KL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2008:	
LJ007	MO UNEMPLOYED
LJ008	YR UNEMPLOYED
LJ011	MO LAST WORKED - LAID OFF
LJ012	YR LAST WORKED - LAID OFF
LJ014	DISABLED-MO
LJ015	DISABLED- YR
LJ017	RETIRED-MO
LJ018	RETIRED-YR
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ023	STOPPED WORKING FOR SLF-MO
LJ024	STOPPED WORKING FOR SLF- YR
LJ045	STILL WORKING PREV EMPLOYER
LJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
LJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
LJ248	MO-START WORK FOR CURRENT EMPLOYER
LJ249	YR-START WORK FOR CURRENT EMPLOYER
LK003	WORK FOR PAY MORE THAN FEW MOS
LK004	LAST WRKED WHEN-YR
LK005	LAST WRKED WHEN-YRS AGO
LK006	LAST WRKED-MO
LK022	START WRK-YR
LK023	START WRK-YRS AGO
LK024	START WRK- AT AGE
LL009	START WRK-YR
LL010	START WORK-YRS AGO
LL011	START WORK- AT AGE
LL017	LEFT EMPLOYER-YRS AGO
LL018	LEFT EMPLOYER- AT AGE
LL034A	START WRK FOR EMP- INC PENSION- YR- 1
LL034B	START WRK FOR EMP- INC PENSION- YR- 2
LL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
LL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2010:	
MJ007	MO UNEMPLOYED
MJ008	YR UNEMPLOYED
MJ011	MO LAST WORKED - LAID OFF
MJ012	YR LAST WORKED - LAID OFF
MJ014	DISABLED-MO
MJ015	DISABLED- YR
MJ017	RETIRED-MO
MJ018	RETIRED-YR
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ023	STOPPED WORKING FOR SLF-MO
MJ024	STOPPED WORKING FOR SLF- YR
MJ045	STILL WORKING PREV EMPLOYER
MJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
MJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
MJ248	MO-START WORK FOR CURRENT EMPLOYER
MJ249	YR-START WORK FOR CURRENT EMPLOYER
MK003	WORK FOR PAY MORE THAN FEW MOS
MK004	LAST WRKED WHEN-YR
MK005	LAST WRKED WHEN-YRS AGO

MK006	LAST WRKED-MO
MK022	START WRK-YR
MK023	START WRK-YRS AGO
MK024	START WRK- AT AGE
ML009	START WRK-YR
ML010	START WORK-YRS AGO
ML011	START WORK- AT AGE
ML017	LEFT EMPLOYER-YRS AGO
ML018	LEFT EMPLOYER- AT AGE
ML034A	START WRK FOR EMP- INC PENSION- YR- 1
ML034B	START WRK FOR EMP- INC PENSION- YR- 2
ML035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
ML035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2012:	
NJ007	MO UNEMPLOYED
NJ008	YR UNEMPLOYED
NJ011	MO LAST WORKED - LAID OFF
NJ012	YR LAST WORKED - LAID OFF
NJ014	DISABLED-MO
NJ015	DISABLED- YR
NJ017	RETIRED-MO
NJ018	RETIRED-YR
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
NJ023	STOPPED WORKING FOR SLF-MO
NJ024	STOPPED WORKING FOR SLF- YR
NJ045	STILL WORKING PREV EMPLOYER
NJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
NJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
NJ248	MO-START WORK FOR CURRENT EMPLOYER
NJ249	YR-START WORK FOR CURRENT EMPLOYER
NK003	WORK FOR PAY MORE THAN FEW MOS
NK004	LAST WRKED WHEN-YR
NK005	LAST WRKED WHEN-YRS AGO
NK006	LAST WRKED-MO
NK022	START WRK-YR
NK023	START WRK-YRS AGO
NK024	START WRK- AT AGE
NL009	START WRK-YR
NL010	START WORK-YRS AGO
NL011	START WORK- AT AGE
NL017	LEFT EMPLOYER-YRS AGO
NL018	LEFT EMPLOYER- AT AGE
NL034A	START WRK FOR EMP- INC PENSION- YR- 1
NL034B	START WRK FOR EMP- INC PENSION- YR- 2
NL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
NL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2014:	
OJ007	MO UNEMPLOYED
OJ008	YR UNEMPLOYED
OJ011	MO LAST WORKED - LAID OFF
OJ012	YR LAST WORKED - LAID OFF
OJ014	DISABLED-MO
OJ015	DISABLED- YR
OJ017	RETIRED-MO
OJ018	RETIRED-YR
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ023	STOPPED WORKING FOR SLF-MO

OJ024	STOPPED WORKING FOR SLF- YR
OJ045	STILL WORKING PREV EMPLOYER
OJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
OJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
OJ248	MO-START WORK FOR CURRENT EMPLOYER
OJ249	YR-START WORK FOR CURRENT EMPLOYER
OK003	WORK FOR PAY MORE THAN FEW MOS
OK004	LAST WRKED WHEN-YR
OK005	LAST WRKED WHEN-YRS AGO
OK006	LAST WRKED-MO
OK022	START WRK-YR
OK023	START WRK-YRS AGO
OK024	START WRK- AT AGE
OL009	START WRK-YR
OL010	START WORK-YRS AGO
OL011	START WORK- AT AGE
OL017	LEFT EMPLOYER-YRS AGO
OL018	LEFT EMPLOYER- AT AGE
OL034A	START WRK FOR EMP- INC PENSION- YR- 1
OL034B	START WRK FOR EMP- INC PENSION- YR- 2
OL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
OL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2

<b>Total years worked from self report</b>
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Wave	Variable	Label	Type
1	R1JYEARS	R1JYEARS:W1 R Years Worked/self-rpt+jobh	Cont
2	R2JYEARS	R2JYEARS:W2 R Years Worked/self-rpt+jobh	Cont
3	R3JYEARS	R3JYEARS:W3 R Years Worked/self-rpt+jobh	Cont
4	R4JYEARS	R4JYEARS:W4 R Years Worked/self-rpt+jobh	Cont
5	R5JYEARS	R5JYEARS:W5 R Years Worked/self-rpt+jobh	Cont
6	R6JYEARS	R6JYEARS:W6 R Years Worked/self-rpt+jobh	Cont
7	R7JYEARS	R7JYEARS:W7 R Years Worked/self-rpt+jobh	Cont
8	R8JYEARS	R8JYEARS:W8 R Years Worked/self-rpt+jobh	Cont
9	R9JYEARS	R9JYEARS:W9 R Years Worked/self-rpt+jobh	Cont
10	R10JYEARS	R10JYEARS:W10 R Years Worked/self-rpt+jobh	Cont
11	R11JYEARS	R11JYEARS:W11 R Years Worked/self-rpt+jobh	Cont
12	R12JYEARS	R12JYEARS:W12 R Years Worked/self-rpt+jobh	Cont
1	S1JYEARS	S1JYEARS:W1 S Years Worked/self-rpt+jobh	Cont
2	S2JYEARS	S2JYEARS:W2 S Years Worked/self-rpt+jobh	Cont
3	S3JYEARS	S3JYEARS:W3 S Years Worked/self-rpt+jobh	Cont
4	S4JYEARS	S4JYEARS:W4 S Years Worked/self-rpt+jobh	Cont
5	S5JYEARS	S5JYEARS:W5 S Years Worked/self-rpt+jobh	Cont
6	S6JYEARS	S6JYEARS:W6 S Years Worked/self-rpt+jobh	Cont
7	S7JYEARS	S7JYEARS:W7 S Years Worked/self-rpt+jobh	Cont
8	S8JYEARS	S8JYEARS:W8 S Years Worked/self-rpt+jobh	Cont
9	S9JYEARS	S9JYEARS:W9 S Years Worked/self-rpt+jobh	Cont
10	S10JYEARS	S10JYEARS:W10 S Years Worked/self-rpt+jobh	Cont
11	S11JYEARS	S11JYEARS:W11 S Years Worked/self-rpt+jobh	Cont
12	S12JYEARS	S12JYEARS:W12 S Years Worked/self-rpt+jobh	Cont
1	R1JYEARM	R1JYEARM:W1 R Years Worked/missing flag	Categ
2	R2JYEARM	R2JYEARM:W2 R Years Worked/missing flag	Categ
3	R3JYEARM	R3JYEARM:W3 R Years Worked/missing flag	Categ
4	R4JYEARM	R4JYEARM:W4 R Years Worked/missing flag	Categ
5	R5JYEARM	R5JYEARM:W5 R Years Worked/missing flag	Categ
6	R6JYEARM	R6JYEARM:W6 R Years Worked/missing flag	Categ
7	R7JYEARM	R7JYEARM:W7 R Years Worked/missing flag	Categ
8	R8JYEARM	R8JYEARM:W8 R Years Worked/missing flag	Categ
9	R9JYEARM	R9JYEARM:W9 R Years Worked/missing flag	Categ
10	R10JYEARM	R10JYEARM:W10 R Years Worked/missing flag	Categ
11	R11JYEARM	R11JYEARM:W11 R Years Worked/missing flag	Categ
12	R12JYEARM	R12JYEARM:W12 R Years Worked/missing flag	Categ
1	S1JYEARM	S1JYEARM:W1 S Years Worked/missing flag	Categ
2	S2JYEARM	S2JYEARM:W2 S Years Worked/missing flag	Categ
3	S3JYEARM	S3JYEARM:W3 S Years Worked/missing flag	Categ
4	S4JYEARM	S4JYEARM:W4 S Years Worked/missing flag	Categ
5	S5JYEARM	S5JYEARM:W5 S Years Worked/missing flag	Categ
6	S6JYEARM	S6JYEARM:W6 S Years Worked/missing flag	Categ
7	S7JYEARM	S7JYEARM:W7 S Years Worked/missing flag	Categ
8	S8JYEARM	S8JYEARM:W8 S Years Worked/missing flag	Categ
9	S9JYEARM	S9JYEARM:W9 S Years Worked/missing flag	Categ
10	S10JYEARM	S10JYEARM:W10 S Years Worked/missing flag	Categ
11	S11JYEARM	S11JYEARM:W11 S Years Worked/missing flag	Categ
12	S12JYEARM	S12JYEARM:W12 S Years Worked/missing flag	Categ

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JYEARS	12652	27.52	13.46	0.0	65.0
R2JYEARS	19642	27.36	15.83	0.0	75.0
R3JYEARS	17991	28.95	16.07	0.0	75.0
R4JYEARS	21384	30.20	15.89	0.0	78.0
R5JYEARS	19579	30.89	16.05	0.0	78.0



R6YEARS	18165	31.74	16.10	0.0	78.0
R7YEARS	20129	31.42	15.68	0.0	77.0
R8YEARS	18469	32.36	15.78	0.0	79.0
R9YEARS	17217	33.14	15.83	0.0	81.0
R10YEARS	22034	29.38	16.57	0.0	83.0
R11YEARS	20554	30.05	16.55	0.0	85.0
R12YEARS	18747	30.63	16.51	0.0	87.0
S1YEARS	9900	28.11	13.41	0.0	65.0
S2YEARS	13088	28.99	15.18	0.0	70.0
S3YEARS	11915	30.52	15.42	0.0	72.0
S4YEARS	13978	31.51	15.17	0.0	74.0
S5YEARS	12730	32.37	15.26	0.0	74.0
S6YEARS	11639	33.34	15.32	0.0	76.0
S7YEARS	12972	32.89	14.89	0.0	76.0
S8YEARS	11735	33.78	14.97	0.0	75.0
S9YEARS	10646	34.78	15.01	0.0	76.0
S10YEARS	13513	30.60	16.19	0.0	75.0
S11YEARS	12488	31.02	16.18	0.0	75.0
S12YEARS	11027	31.51	16.12	0.0	73.0
R1YEARM	12652	0.45	0.82	0.0	6.0
R2YEARM	19642	1.20	1.66	0.0	6.0
R3YEARM	17991	1.11	1.61	0.0	6.0
R4YEARM	21384	0.89	1.42	0.0	6.0
R5YEARM	19579	0.87	1.37	0.0	6.0
R6YEARM	18165	0.83	1.32	0.0	6.0
R7YEARM	20129	0.77	1.22	0.0	6.0
R8YEARM	18469	0.73	1.17	0.0	6.0
R9YEARM	17217	0.70	1.13	0.0	6.0
R10YEARM	22034	0.99	1.14	0.0	6.0
R11YEARM	20554	0.99	1.12	0.0	6.0
R12YEARM	18747	0.99	1.11	0.0	6.0
S1YEARM	9900	0.44	0.81	0.0	6.0
S2YEARM	13088	1.01	1.54	0.0	6.0
S3YEARM	11915	0.92	1.46	0.0	6.0
S4YEARM	13978	0.73	1.26	0.0	6.0
S5YEARM	12730	0.70	1.20	0.0	6.0
S6YEARM	11639	0.67	1.14	0.0	6.0
S7YEARM	12972	0.63	1.06	0.0	6.0
S8YEARM	11735	0.61	1.01	0.0	6.0
S9YEARM	10646	0.59	0.97	0.0	6.0
S10YEARM	13513	0.94	1.08	0.0	6.0
S11YEARM	12488	0.97	1.08	0.0	6.0
S12YEARM	11027	0.99	1.07	0.0	6.0

## Categorical Variable Codes

Value	R1JYEARM	R2JYEARM	R3JYEARM	R4JYEARM	R5JYEARM	R6JYEARM	R7JYEARM
0.No date missing	9383	11425	10834	13663	12541	11742	12939
1.At least 1 job date missi	991	1052	983	1279	1233	1207	1699
2.Early years worked missin	2150	3443	3267	4348	4023	3756	4223
3.Early yrs/1+ job dt missi	117	165	152	204	183	161	227
4.No job hist,w2a used		2910	2140	1287	1128	920	747
5.w2a>jobhist,w2a used	3	298	283	262	207	168	131
6.Job dt=.,w2a gt jobhist,w	8	349	332	341	264	211	163

Value	R8JYEARM	R9JYEARM	R10JYEARM	R11JYEARM	R12JYEARM
0.No date missing	12005	11276	11391	10541	9521
1.At least 1 job date missi	1611	1537	1755	1675	1562
2.Early years worked missin	3835	3563	7304	6869	6334
3.Early yrs/1+ job dt missi	218	215	1162	1155	1107
4.No job hist,w2a used	578	453	299	225	162
5.w2a>jobhist,w2a used	94	79	57	41	28
6.Job dt=.,w2a gt jobhist,w	128	94	66	48	33

Value	S1JYEARM	S2JYEARM	S3JYEARM	S4JYEARM	S5JYEARM	S6JYEARM	S7JYEARM
.U=Unmarried	2373	5970	5658	6869	6538	6306	6777
.V=Spouse NR	379	584	418	537	311	220	380
0.No date missing	7382	8161	7692	9483	8683	7958	8762
1.At least 1 job date missi	794	832	752	946	910	875	1203
2.Early years worked missin	1632	2173	2043	2604	2390	2239	2509
3.Early yrs/1+ job dt missi	81	109	92	123	105	96	148
4.No job hist,w2a used		1458	1029	554	445	330	250
5.w2a>jobhist,w2a used	3	185	160	129	91	63	43
6.Job dt=.,w2a gt jobhist,w	8	170	147	139	106	78	57

Value	S8JYEARM	S9JYEARM	S10JYEARM	S11JYEARM	S12JYEARM
.U=Unmarried	6417	6206	7799	7474	7127
.V=Spouse NR	317	365	722	592	593
0.No date missing	7952	7259	7092	6380	5491
1.At least 1 job date missi	1125	1055	1176	1072	975
2.Early years worked missin	2275	2042	4405	4215	3823
3.Early yrs/1+ job dt missi	144	130	747	756	702
4.No job hist,w2a used	171	112	60	45	24
5.w2a>jobhist,w2a used	28	19	15	8	4
6.Job dt=.,w2a gt jobhist,w	40	29	18	12	8

## How Constructed

RwJYEARS is the total number of self-reported years worked. RwJYEARM indicates how many missing values are encountered in the derivation of RwJYEARS.

RwJYEARS is derived using all reported jobs and variables regarding number of years worked which was obtained in Wave 3H and from Wave 4 forward. Reported jobs include those at which a Respondent is working at any interview and those reported in the retrospective job history.

Except for the AHEAD entry cohort, a Respondent is asked about past jobs retrospectively at her/his first interview. If the Respondent is not working, information about the last job is collected. Whether working or not, questions are asked about up to three additional jobs lasting five or more years. These job history questions were not asked in Waves 2A or 3A. For those in the AHEAD entry cohort, job history information was collected at Wave 4.

In Wave 3H and from Wave 4 forward, the Respondent is asked for the earliest year and total number of years worked before the earliest job previously reported in job history.

The derivation uses the earliest year worked and number of years worked variables, along with retrospective job history and all jobs reported since the first interview. In Waves 2A and 3A, jobs reported in the retrospective job history were collected in Wave 4, so their dates are compared to interview dates to determine whether or how long they lasted before the 2A or 3A interview.

The retrospective job history and jobs reported at interviews are compared for overlapping dates so as not to double count years of work. If both job start or stop years are missing, the years of work in those jobs are not added. If one of the years is missing and the job is reported among those lasting 5+ years, the missing year is assumed to be 5 years away from the non-missing year. If one of the years is missing, and the job is reported as the most recent job by an unemployed Respondent (as part of the job history information), then that job is counted as lasting one year. Thus *RwJYEARS* represents the minimum number of years worked that could be determined.

In Wave 2A some Respondents are asked about the total years worked, and others about total years at the longest held job. If, after processing the current job and job history, *R2JYEARS* is less than the answer to either of these direct questions, the direct question is used to set *R2JYEAR*, and *RwJYEARS* in subsequent waves is adjusted appropriately.

*RwJYEARM* is a flag that indicates if any of the reported job dates are missing, or if the earliest year worked (or number of years worked up to preloaded first reported year worked) is either not available or missing. It also indicates if the *W2A* direct question was used. Years worked counts any part of a year as a whole year.

Spouse variables are taken from the Respondent's spouse's self-reported variables, i.e., they are taken the spouse's *RwJYEARS* and *RwJYEARM*.

### **Cross Wave Differences in Original HRS Data**

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4. In Wave 3H and from Wave 4 forward, new questions ask about the Respondent's years worked before the first job reported in prior waves.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. If the last job ended more than 20 years ago, the amount of information gathered is very limited. Otherwise, questions ask about the starting date, occupation, and industry of the last job. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

"Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?"

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more

that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working but has worked during the last two years, information about that last job is collected, including start and stop dates and occupation. Industry of the last job is not available. In addition, most people are asked if they ever worked for ten or more years. If so they are then asked if they worked for one employer for ten or more years, and if so, the occupation and number of years at the longest held job are collected. If not, another question asks the total years worked for pay.

In Wave 3H, or at the first interview from Wave 4 forward to which the Respondent responds, a question is added that asks when the Respondent first worked for 6 months or more. Follow-up questions ask how many years the Respondent worked 6 months or more between the year first worked and a preloaded value. The preloaded value is the earliest start year of all jobs reported, presumably derived from job history given at the first interview.

Each interview obtains the Respondent's current work status. At the Respondent's first interview, questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews, and the start date, occupation, and industry of the new one. If the Respondent reports a change in job title, then occupation and industry are asked, even if the employer is the same.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

## HRS Variables Used

### HRS 1992:

V12717	F2:ANY WRK FOR PAY :IND
V12718	F3:WHO WORK FOR :IND
V2708	F1a:MONTH UNEMPLOYED
V2709	F1a:YR UNEMPLOYED
V2711	F1c:LAST WRK THIS JOB-MO
V2712	F1c:LAST WRK THIS JOB-YR
V2713	F1d:MO BECAME DISABLED
V2714	F1d:YR BECAME DISABLED
V2715	F1e:MONTH RETIRED
V2716	F1e:YEAR RETIRED
V2717	F2:ANY WRK FOR PAY :IMP
V2718	F3:WHO WORK FOR :IMP
V2816	F23:YR STARTED FOR EMPLR
V2834	F33:YR STRT THIS BUSINES
V3401	G1: RK/PAY +FEW MOS:IMP
V3402	G1A:MO LST WRK W/PAY
V3403	G1A:YR LST WRK W/PAY
V3418	G13:YR STRT WRK JOB
V3442	G25:R/SE:YR STRT @ BUS.
V3604	H4:WHN STRT WRKNG JOB-YR
V3607	H7:YEAR STP WRKNG AT JB
V3704	H25:1ST:YR STRTD THERE
V3705	H26:1ST:YR LEFT THERE
V3804	H25:NXT:YR STRTD THERE
V3805	H26:NXT:YR LEFT THERE

### AHEAD 1993:

B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?

B1178	G2. CURRENTLY SELF EMPLOYED
B1182	G4. CURRENT WORK START YEAR
B1183	G4. CURRENT WORK START YEARS AGO
B1184	G4. CURRENT WORK START AT AGE
B1207	G11. JOB LAST 2 YEARS: END MONTH
B1208	G11. JOB LAST 2 YEARS: END YEAR
B1221	G14. JOB LAST 2 YRS START YEAR
B1222	G14. JOB LAST 2 YRS START YEARS AGO
B1223	G14. JOB LAST 2 YRS START AT AGE
B1232	G20. EVER WORK 10/+ YRS?
B1234	G21. EVER WORK 10/+ YRS ONE EMPLOYER?
B1235	G22. 10/+ YRS ONE EMP: # YEARS
B1241	G26. 10/+YRS ONE EMP: # YEARS WORKED
HRS 1994:	
W3307	FA1a.UNEMPLOYED-MONTH
W3308	FA1b.UNEMPLOYED-YEAR
W3310	FA1d.LAST WORKED ON JOB-
W3311	FA1e.LAST WORKED ON JOB-
W3312	FA1f.DISABLED-MONTH
W3313	FA1f.DISABLED-YEAR
W3314	FA1h.RETIRED-MONTH
W3315	FA1h.RETIRED-YEAR
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS
W3318	FA5.STOPPED WORKING FOR
W3319	FA5.STOPPED WORKING FOR
W3458	FA19.STILL WORKING FOR W
W3503	FA26.STOPPED WORKING FOR
W3504	FA26.STOPPED WORKING FOR
W3662	FA59.START WORK FOR EMPL
W3663	FA59.START WORK FOR EMPL
W4200	FB2.STOPPED WORK FOR EMP
W4201	FB2a.STOPPED WORK FOR EM
W4327	FB22.STARTED S-E WORK-MO
W4328	FB22a.STARTED S-E WORK-Y
W4800	FC2.MONTH STOPPED SELF-E
W4801	FC2a.YEAR STOPPED SELF-E
W4897	FC16.MONTH STOPPED WORK
W4898	FC16a.YEAR STOPPED WORK
W7002	G1a.LAST WORKED-YEAR
W7003	G1a.LAST WORKED-YEARS AG
W7004	G1a.LAST WORKED-MONTH
W7018	G13.START WORK-YEAR
W7019	G13.START WORK-YEARS AGO
W7020	G13.START WORK-AGE
W7103	H4.START WORK-YEAR
W7104	H4.START WORK-YEARS AGO
W7105	H4.START WORK-AGE
W7108	H7.LEFT EMPLOYER-YEAR
W7109	H7.LEFT EMPLOYER-YEARS A
W7110	H7.LEFT EMPLOYER-AGE
W7162	EMP1. H25.START WORK-YEA
W7163	EMP1. H26.LEFT EMPLOYER-
W7196	EMP2. H25.START WORK-YEA
W7197	EMP2. H26.LEFT EMPLOYER-
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS

D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2633	GA1D. MONTH LAST WORKED - TEMPORARY
D2634	GA1E. YEAR LAST WORKED - TEMPORARY
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2643	GA1J.YEAR RETIRED
D2644	GA1J.MONTH RETIRED
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2654	GA5. MONTH STOPPED SELF-EMPL
D2655	GA5A. YEAR STOPPED SELF-EMPL
D2747	GA19. STILL WORKING SAME EMPLOYER
D2759	GA26. MONTH STOPPED WORKING WAVE I EMPLO
D2760	GA26A. YEAR STOPPED WORKING WAVE I EMPLO
D2831	GA43. MONTH STARTED CURRENT WORK
D2832	GA43A. YEAR STARTED CURRENT WORK
D3188	GB2. MONTH STOPPED SELF-EMPL
D3189	GB2A. YEAR STOPPED SELF-EMPL
D3545	GC2. MONTH STOPPED SELF-EMPL
D3546	GC2A. YEAR STOPPED SELF-EMPL
D3639	GC16. MONTH STOPPED WORKING WAVE I EMPLO
D3640	GC16A. YEAR STOPPED WORKING WAVE I EMPLO
HRS 1996:	
E189	PREV WAVE FIRST JOB YEAR
E2612	G1A.UNEMPLOYED-MONTH
E2613	G1B.UNEMPLOYED-YEAR
E2616	G1D.LAST WORKED ON JOB-MONTH
E2617	G1E.LAST WORKED ON JOB-YEAR
E2619	G1F.DISABLED-MONTH
E2620	G1G.DISABLED-YEAR
E2622	G1H.RETIRED-MONTH
E2623	G1J.RETIRED-YEAR
E2627	G2.WORKING FOR PAY
E2628	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
E2630	G5.STOPPED WORKING FOR SELF-MONTH
E2631	G5A.STOPPED WORKING FOR SELF-YEAR
E2654	G19A.STILL WORKNG FOR PREV WAVE EMPLOYER
E2655	G19B.STILL WORKING PREV EMPLOYER
E2667	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
E2668	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
E2825	G63.START WORK FOR EMPLOYER-MONTH
E2826	G63A.START WORK FOR EMPLOYER-YEAR
E3091	G161.WORK SIX MONTH OR GREATER - YEAR
E3092	G162.BEGIN YEARS SIX MONTHS OR GREATER
E3093	G162A.END YEAR
E3094	G162B.YEARS
E3095	G162A.RANGE
E3127	GG1A.LAST WORKED-YEAR
E3128	GG1A.LAST WORKED-YEARS AGO
E3129	GG1A.LAST WORKED-MONTH
E3146	GG13.START WORK-YEAR
E3147	GG13.START WORK-YEARS AGO
E3148	GG13.START WORK-AGE
E3329	GH4.START WORK-YEAR
E3330	GH4.START WORK-YEARS AGO
E3331	GH4.START WORK-AGE
E3337	GH7.LEFT EMPLOYER-YEAR
E3338	GH7.LEFT EMPLOYER-YEARS AGO

E3339	GH7.LEFT EMPLOYER-AGE
HRS 1998:	
F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3120	G1D.LAST WORKED ON JOB-MONTH
F3121	G1E.LAST WORKED ON JOB-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3126	G1H.RETIRED-MONTH
F3127	G1J.RETIRED-YEAR
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3134	G5.STOPPED WORKING FOR SELF-MONTH
F3135	G5A.STOPPED WORKING FOR SELF-YEAR
F3158	G19A.STILL WORKING FOR PREV WAVE EMPLOYE
F3166	G19B.STILL WORKING PREV EMPLOYER
F3188	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
F3189	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
F3348	G63.START WORK FOR EMPLOYER-MONTH
F3349	G63A.START WORK FOR EMPLOYER-YEAR
F3644	GG1A1.LAST WORKED WHEN-YEAR
F3645	GG1A2.LAST WORKED WHEN-YEARS AGO
F3647	GG1A.LAST WORKED-MONTH
F3664	GG13.START WORK-YEAR
F3665	GG13.START WORK-YEARS AGO
F3666	GG13.START WORK-AGE
F3834	GH4.START WORK-YEAR
F3835	GH4.START WORK-YEARS AGO
F3836	GH4.START WORK-AGE
F3842	GH7.LEFT EMPLOYER-YEAR
F3843	GH7.LEFT EMPLOYER-YEARS AGO
F3844	GH7.LEFT EMPLOYER-AGE
F3903_1	GH25.START WORK FOR EMPLOYER-YEAR
F3903_2	GH25.START WORK FOR EMPLOYER-YEAR
F3904_1	GH26.LEFT EMPLOYER-YEAR
F3904_2	GH26.LEFT EMPLOYER-YEAR
F3973	GH52 FIRST-FINAL
F3974	GH52.WORK SIX MONTH OR GREATER - YEAR
F3976	GH52A.BEGIN YEARS SIX MONTHS OR GREATER
F3977	GH52AA.END YEAR
F3978	GH52AB.YEARS
F3979	GH52AA.RANGE
HRS 2000:	
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3370	G1D.LAST WORKED ON JOB-MONTH
G3371	G1E.LAST WORKED ON JOB-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3376	G1H.RETIRED-MONTH
G3377	G1J.RETIRED-YEAR
G3381	G2.WORKING FOR PAY
G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3384	G5.STOPPED WORKING FOR SELF-MONTH
G3385	G5A.STOPPED WORKING FOR SELF-YEAR
G3416	G19B.STILL WORKING PREV EMPLOYER
G3437	G26.STOP WORK PREV WAVE EMPLOYR-MO
G3438	G26A.STOP WORK PREV WAVE EMPLOYR-YR
G3607	G63.START WORK FOR EMPLOYER-MONTH

G3608	G63A.START WORK FOR EMPLOYER-YEAR
G3954	GG1A1.LAST WORKED WHEN-YEAR
G3955	GG1A2.LAST WORKED WHEN-YEARS AGO
G3957	GG1A.LAST WORKED-MONTH
G3974	GG13.START WORK-YEAR
G3975	GG13Y1. START WORK-YEARS AGO
G3976	GG13Y2. START WORK-AGE
G4096	GH4.START WORK-YEAR
G4097	GH4Y1. START WORK-YEARS AGO
G4098	GH4Y2. START WORK-AGE
G4105	GH7Y1. LEFT EMPLOYER-YEARS AGO
G4106	GH7Y2. LEFT EMPLOYER-AGE
G4176_1	GH25.START WORK FOR EMPLOYER-YEAR
G4176_2	GH25.START WORK FOR EMPLOYER-YEAR
G4177_1	GH26.LEFT EMPLOYER-YEAR
G4177_2	GH26.LEFT EMPLOYER-YEAR
G4263	GH52Y3.GH52 FIRST-FINAL
G4264	GH52Y4.WORK SIX MONTH OR GREATER - YEAR
G4266	GH52A.BEGIN YEARS SIX MONTHS OR GREATER
G4267	GH52AA.END YEAR
G4268	GH52AB.YEARS
G4269	GH52AC.RANGE
HRS 2002:	
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ011	MO LAST WORKED - LAID OFF
HJ012	YR LAST WORKED - LAID OFF
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ017	RETIRED-MO
HJ018	RETIRED-YR
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ023	STOPPED WORKING FOR SLF-MO
HJ024	STOPPED WORKING FOR SLF- YR
HJ045	STILL WORKING PREV EMPLOYER
HJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
HJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
HJ248	MO-START WORK FOR CURRENT EMPLOYER
HJ249	YR-START WORK FOR CURRENT EMPLOYER
HK004	LAST WRKED-MO
HK018	START WRK-YR
HK019	START WRK-YRS AGO
HK020	START WRK- AT AGE
HL009	START WRK-YR
HL010	START WORK-YRS AGO
HL011	START WORK- AT AGE
HL017	LEFT EMPLOYER-YRS AGO
HL018	LEFT EMPLOYER- AT AGE
HL078_1	START WRK FOR EMP- INC PENSION- YR- 1
HL078_2	START WRK FOR EMP- INC PENSION- YR- 2
HL079_1	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
HL079_2	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HL152	1ST WRK SIX MO OR GREATER- YR
HL153	BEGIN YR WORK SIX MOS OR GREATER
HL154	END YR WORK SIX MOS OR GREATER
HL155	# YRS WORK SIX MOS OR GREATER
HL156	ALL YRS WORK SIX MOS OR GREATER
HRS 2004:	



JJ007	MO UNEMPLOYED
JJ008	YR UNEMPLOYED
JJ011	MO LAST WORKED - LAID OFF
JJ012	YR LAST WORKED - LAID OFF
JJ014	DISABLED-MO
JJ015	DISABLED- YR
JJ017	RETIRED-MO
JJ018	RETIRED-YR
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ023	STOPPED WORKING FOR SLF-MO
JJ024	STOPPED WORKING FOR SLF- YR
JJ045	STILL WORKING PREV EMPLOYER
JJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
JJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
JJ248	MO-START WORK FOR CURRENT EMPLOYER
JJ249	YR-START WORK FOR CURRENT EMPLOYER
JK004	LAST WRKED WHEN-YR
JK005	LAST WRKED WHEN-YRS AGO
JK006	LAST WRKED-MO
JK022	START WRK-YR
JK023	START WRK-YRS AGO
JK024	START WRK- AT AGE
JL009	START WRK-YR
JL010	START WORK-YRS AGO
JL011	START WORK- AT AGE
JL017	LEFT EMPLOYER-YRS AGO
JL018	LEFT EMPLOYER- AT AGE
JL034A	START WRK FOR EMP- INC PENSION- YR- 1
JL034B	START WRK FOR EMP- INC PENSION- YR- 2
JL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
JL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
JL068	1ST WRK SIX MO OR GREATER- YR
JL069	BEGIN YR WORK SIX MOS OR GREATER
JL070	END YR WORK SIX MOS OR GREATER
JL071	# YRS WORK SIX MOS OR GREATER
JL072	ALL YRS WORK SIX MOS OR GREATER
HRS 2006:	
KJ007	MO UNEMPLOYED
KJ008	YR UNEMPLOYED
KJ011	MO LAST WORKED - LAID OFF
KJ012	YR LAST WORKED - LAID OFF
KJ014	DISABLED-MO
KJ015	DISABLED- YR
KJ017	RETIRED-MO
KJ018	RETIRED-YR
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ023	STOPPED WORKING FOR SLF-MO
KJ024	STOPPED WORKING FOR SLF- YR
KJ045	STILL WORKING PREV EMPLOYER
KJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
KJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
KJ248	MO-START WORK FOR CURRENT EMPLOYER
KJ249	YR-START WORK FOR CURRENT EMPLOYER
KK004	LAST WRKED WHEN-YR
KK005	LAST WRKED WHEN-YRS AGO
KK006	LAST WRKED-MO
KK022	START WRK-YR

KK023	START WRK-YRS AGO
KK024	START WRK- AT AGE
KL009	START WRK-YR
KL010	START WORK-YRS AGO
KL011	START WORK- AT AGE
KL017	LEFT EMPLOYER-YRS AGO
KL018	LEFT EMPLOYER- AT AGE
KL034A	START WRK FOR EMP- INC PENSION- YR- 1
KL034B	START WRK FOR EMP- INC PENSION- YR- 2
KL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
KL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
KL068	1ST WRK SIX MO OR GREATER- YR
KL069	BEGIN YR WORK SIX MOS OR GREATER
KL070	END YR WORK SIX MOS OR GREATER
KL071	# YRS WORK SIX MOS OR GREATER
KL072	ALL YRS WORK SIX MOS OR GREATER
HRS 2008:	
LJ007	MO UNEMPLOYED
LJ008	YR UNEMPLOYED
LJ011	MO LAST WORKED - LAID OFF
LJ012	YR LAST WORKED - LAID OFF
LJ014	DISABLED-MO
LJ015	DISABLED- YR
LJ017	RETIRED-MO
LJ018	RETIRED-YR
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ023	STOPPED WORKING FOR SLF-MO
LJ024	STOPPED WORKING FOR SLF- YR
LJ045	STILL WORKING PREV EMPLOYER
LJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
LJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
LJ248	MO-START WORK FOR CURRENT EMPLOYER
LJ249	YR-START WORK FOR CURRENT EMPLOYER
LK004	LAST WRKED WHEN-YR
LK005	LAST WRKED WHEN-YRS AGO
LK006	LAST WRKED-MO
LK022	START WRK-YR
LK023	START WRK-YRS AGO
LK024	START WRK- AT AGE
LL009	START WRK-YR
LL010	START WORK-YRS AGO
LL011	START WORK- AT AGE
LL017	LEFT EMPLOYER-YRS AGO
LL018	LEFT EMPLOYER- AT AGE
LL034A	START WRK FOR EMP- INC PENSION- YR- 1
LL034B	START WRK FOR EMP- INC PENSION- YR- 2
LL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
LL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
LL068	1ST WRK SIX MO OR GREATER- YR
LL069	BEGIN YR WORK SIX MOS OR GREATER
LL070	END YR WORK SIX MOS OR GREATER
LL071	# YRS WORK SIX MOS OR GREATER
LL072	ALL YRS WORK SIX MOS OR GREATER
HRS 2010:	
MJ007	MO UNEMPLOYED
MJ008	YR UNEMPLOYED
MJ011	MO LAST WORKED - LAID OFF
MJ012	YR LAST WORKED - LAID OFF

MJ014	DISABLED-MO
MJ015	DISABLED- YR
MJ017	RETIRED-MO
MJ018	RETIRED-YR
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ023	STOPPED WORKING FOR SLF-MO
MJ024	STOPPED WORKING FOR SLF- YR
MJ045	STILL WORKING PREV EMPLOYER
MJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
MJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
MJ248	MO-START WORK FOR CURRENT EMPLOYER
MJ249	YR-START WORK FOR CURRENT EMPLOYER
MK004	LAST WRKED WHEN-YR
MK005	LAST WRKED WHEN-YRS AGO
MK006	LAST WRKED-MO
MK022	START WRK-YR
MK023	START WRK-YRS AGO
MK024	START WRK- AT AGE
ML009	START WRK-YR
ML010	START WORK-YRS AGO
ML011	START WORK- AT AGE
ML017	LEFT EMPLOYER-YRS AGO
ML018	LEFT EMPLOYER- AT AGE
ML034A	START WRK FOR EMP- INC PENSION- YR- 1
ML034B	START WRK FOR EMP- INC PENSION- YR- 2
ML035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
ML035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
ML068	1ST WRK SIX MO OR GREATER- YR
ML069	BEGIN YR WORK SIX MOS OR GREATER
ML070	END YR WORK SIX MOS OR GREATER
ML071	# YRS WORK SIX MOS OR GREATER
ML072	ALL YRS WORK SIX MOS OR GREATER
HRS 2012:	
NJ007	MO UNEMPLOYED
NJ008	YR UNEMPLOYED
NJ011	MO LAST WORKED - LAID OFF
NJ012	YR LAST WORKED - LAID OFF
NJ014	DISABLED-MO
NJ015	DISABLED- YR
NJ017	RETIRED-MO
NJ018	RETIRED-YR
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
NJ023	STOPPED WORKING FOR SLF-MO
NJ024	STOPPED WORKING FOR SLF- YR
NJ045	STILL WORKING PREV EMPLOYER
NJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
NJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
NJ248	MO-START WORK FOR CURRENT EMPLOYER
NJ249	YR-START WORK FOR CURRENT EMPLOYER
NK004	LAST WRKED WHEN-YR
NK005	LAST WRKED WHEN-YRS AGO
NK006	LAST WRKED-MO
NK022	START WRK-YR
NK023	START WRK-YRS AGO
NK024	START WRK- AT AGE
NL009	START WRK-YR
NL010	START WORK-YRS AGO

NL011	START WORK- AT AGE
NL017	LEFT EMPLOYER-YRS AGO
NL018	LEFT EMPLOYER- AT AGE
NL034A	START WRK FOR EMP- INC PENSION- YR- 1
NL034B	START WRK FOR EMP- INC PENSION- YR- 2
NL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
NL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
NL068	1ST WRK SIX MO OR GREATER- YR
NL069	BEGIN YR WORK SIX MOS OR GREATER
NL070	END YR WORK SIX MOS OR GREATER
NL071	# YRS WORK SIX MOS OR GREATER
NL072	ALL YRS WORK SIX MOS OR GREATER

HRS 2014:

OJ007	MO UNEMPLOYED
OJ008	YR UNEMPLOYED
OJ011	MO LAST WORKED - LAID OFF
OJ012	YR LAST WORKED - LAID OFF
OJ014	DISABLED-MO
OJ015	DISABLED- YR
OJ017	RETIRED-MO
OJ018	RETIRED-YR
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ023	STOPPED WORKING FOR SLF-MO
OJ024	STOPPED WORKING FOR SLF- YR
OJ045	STILL WORKING PREV EMPLOYER
OJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
OJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
OJ248	MO-START WORK FOR CURRENT EMPLOYER
OJ249	YR-START WORK FOR CURRENT EMPLOYER
OK004	LAST WRKED WHEN-YR
OK005	LAST WRKED WHEN-YRS AGO
OK006	LAST WRKED-MO
OK022	START WRK-YR
OK023	START WRK-YRS AGO
OK024	START WRK- AT AGE
OL009	START WRK-YR
OL010	START WORK-YRS AGO
OL011	START WORK- AT AGE
OL017	LEFT EMPLOYER-YRS AGO
OL018	LEFT EMPLOYER- AT AGE
OL034A	START WRK FOR EMP- INC PENSION- YR- 1
OL034B	START WRK FOR EMP- INC PENSION- YR- 2
OL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
OL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
OL068	1ST WRK SIX MO OR GREATER- YR
OL069	BEGIN YR WORK SIX MOS OR GREATER
OL070	END YR WORK SIX MOS OR GREATER
OL071	# YRS WORK SIX MOS OR GREATER
OL072	ALL YRS WORK SIX MOS OR GREATER

<b>Month and year last job ended</b>
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Wave	Variable	Label	Type
1	R1JLASTM	R1JLASTM:W1 Month Last Worked/not workng	Cont
2	R2JLASTM	R2JLASTM:W2 Month Last Worked/not workng	Cont
3	R3JLASTM	R3JLASTM:W3 Month Last Worked/not workng	Cont
4	R4JLASTM	R4JLASTM:W4 Month Last Worked/not workng	Cont
5	R5JLASTM	R5JLASTM:W5 Month Last Worked/not workng	Cont
6	R6JLASTM	R6JLASTM:W6 Month Last Worked/not workng	Cont
7	R7JLASTM	R7JLASTM:W7 Month Last Worked/not workng	Cont
8	R8JLASTM	R8JLASTM:W8 Month Last Worked/not workng	Cont
9	R9JLASTM	R9JLASTM:W9 Month Last Worked/not workng	Cont
10	R10JLASTM	R10JLASTM:W10 Month Last Worked/not workng	Cont
11	R11JLASTM	R11JLASTM:W11 Month Last Worked/not workng	Cont
12	R12JLASTM	R12JLASTM:W12 Month Last Worked/not workng	Cont
1	S1JLASTM	S1JLASTM:W1 Month Last Worked/not workng	Cont
2	S2JLASTM	S2JLASTM:W2 Month Last Worked/not workng	Cont
3	S3JLASTM	S3JLASTM:W3 Month Last Worked/not workng	Cont
4	S4JLASTM	S4JLASTM:W4 Month Last Worked/not workng	Cont
5	S5JLASTM	S5JLASTM:W5 Month Last Worked/not workng	Cont
6	S6JLASTM	S6JLASTM:W6 Month Last Worked/not workng	Cont
7	S7JLASTM	S7JLASTM:W7 Month Last Worked/not workng	Cont
8	S8JLASTM	S8JLASTM:W8 Month Last Worked/not workng	Cont
9	S9JLASTM	S9JLASTM:W9 Month Last Worked/not workng	Cont
10	S10JLASTM	S10JLASTM:W10 Month Last Worked/not workng	Cont
11	S11JLASTM	S11JLASTM:W11 Month Last Worked/not workng	Cont
12	S12JLASTM	S12JLASTM:W12 Month Last Worked/not workng	Cont
1	R1JLASTY	R1JLASTY:W1 Year Last Worked/not working	Cont
2	R2JLASTY	R2JLASTY:W2 Year Last Worked/not working	Cont
3	R3JLASTY	R3JLASTY:W3 Year Last Worked/not working	Cont
4	R4JLASTY	R4JLASTY:W4 Year Last Worked/not working	Cont
5	R5JLASTY	R5JLASTY:W5 Year Last Worked/not working	Cont
6	R6JLASTY	R6JLASTY:W6 Year Last Worked/not working	Cont
7	R7JLASTY	R7JLASTY:W7 Year Last Worked/not working	Cont
8	R8JLASTY	R8JLASTY:W8 Year Last Worked/not working	Cont
9	R9JLASTY	R9JLASTY:W9 Year Last Worked/not working	Cont
10	R10JLASTY	R10JLASTY:W10 Year Last Worked/not working	Cont
11	R11JLASTY	R11JLASTY:W11 Year Last Worked/not working	Cont
12	R12JLASTY	R12JLASTY:W12 Year Last Worked/not working	Cont
1	S1JLASTY	S1JLASTY:W1 Year Last Worked/not working	Cont
2	S2JLASTY	S2JLASTY:W2 Year Last Worked/not working	Cont
3	S3JLASTY	S3JLASTY:W3 Year Last Worked/not working	Cont
4	S4JLASTY	S4JLASTY:W4 Year Last Worked/not working	Cont
5	S5JLASTY	S5JLASTY:W5 Year Last Worked/not working	Cont
6	S6JLASTY	S6JLASTY:W6 Year Last Worked/not working	Cont
7	S7JLASTY	S7JLASTY:W7 Year Last Worked/not working	Cont
8	S8JLASTY	S8JLASTY:W8 Year Last Worked/not working	Cont
9	S9JLASTY	S9JLASTY:W9 Year Last Worked/not working	Cont
10	S10JLASTY	S10JLASTY:W10 Year Last Worked/not working	Cont
11	S11JLASTY	S11JLASTY:W11 Year Last Worked/not working	Cont
12	S12JLASTY	S12JLASTY:W12 Year Last Worked/not working	Cont

## Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JLASTM	2694	6.57	3.37	1.0	12.0
R2JLASTM	3045	6.41	3.39	1.0	12.0
R3JLASTM	3888	6.43	3.47	1.0	12.0
R4JLASTM	5240	6.61	3.57	1.0	12.0
R5JLASTM	5794	6.51	3.58	1.0	12.0

R6JLASTM	6395	6.46	3.52	1.0	12.0
R7JLASTM	6921	6.45	3.51	1.0	12.0
R8JLASTM	7142	6.48	3.51	1.0	12.0
R9JLASTM	7279	6.45	3.51	1.0	12.0
R10JLASTM	8455	6.51	3.48	1.0	12.0
R11JLASTM	8633	6.51	3.48	1.0	12.0
R12JLASTM	8516	6.52	3.51	1.0	12.0
S1JLASTM	2099	6.60	3.37	1.0	12.0
S2JLASTM	2284	6.44	3.36	1.0	12.0
S3JLASTM	2836	6.42	3.42	1.0	12.0
S4JLASTM	3595	6.72	3.53	1.0	12.0
S5JLASTM	3932	6.61	3.56	1.0	12.0
S6JLASTM	4264	6.55	3.50	1.0	12.0
S7JLASTM	4531	6.53	3.50	1.0	12.0
S8JLASTM	4570	6.57	3.52	1.0	12.0
S9JLASTM	4528	6.53	3.52	1.0	12.0
S10JLASTM	5114	6.55	3.51	1.0	12.0
S11JLASTM	5101	6.56	3.51	1.0	12.0
S12JLASTM	4823	6.55	3.53	1.0	12.0
R1JLASTY	3741	1984.60	8.98	1945.0	1993.0
R2JLASTY	6760	1982.64	11.86	1920.0	1995.0
R3JLASTY	9440	1983.45	11.28	1920.0	1996.0
R4JLASTY	11338	1985.84	11.36	1920.0	1999.0
R5JLASTY	10859	1987.53	11.38	1920.0	2000.0
R6JLASTY	10631	1989.68	11.34	1929.0	2003.0
R7JLASTY	10819	1991.79	11.28	1929.0	2005.0
R8JLASTY	10458	1993.56	11.16	1929.0	2007.0
R9JLASTY	10089	1995.28	11.18	1929.0	2009.0
R10JLASTY	11357	1998.72	10.79	1935.0	2011.0
R11JLASTY	11036	2000.56	10.54	1935.0	2013.0
R12JLASTY	10475	2002.31	10.49	1935.0	2014.0
S1JLASTY	2923	1984.45	9.22	1947.0	1993.0
S2JLASTY	4561	1983.43	11.36	1928.0	1995.0
S3JLASTY	5913	1984.65	10.79	1931.0	1996.0
S4JLASTY	6946	1987.01	10.82	1931.0	1999.0
S5JLASTY	6598	1988.94	10.58	1932.0	2000.0
S6JLASTY	6387	1991.17	10.48	1932.0	2003.0
S7JLASTY	6456	1993.20	10.29	1932.0	2005.0
S8JLASTY	6164	1994.90	10.23	1940.0	2007.0
S9JLASTY	5788	1996.69	10.12	1941.0	2009.0
S10JLASTY	6461	1999.97	9.80	1941.0	2011.0
S11JLASTY	6197	2001.69	9.61	1944.0	2013.0
S12JLASTY	5681	2003.47	9.62	1945.0	2014.0

## How Constructed

RwJLASTM and RwJLASTY are the month and year, respectively, when the Respondent last worked. It is set to missing value .W if the Respondent is working at Wave 'w.'

Except for the AHEAD entry cohort, a Respondent is asked about past jobs retrospectively at her/his first interview. If the Respondent is not working, information about the last job is collected. If the Respondent reports ever having worked, then the start and stop years of the most recent job held are obtained. Regardless of whether the Respondent is working or

not, questions ask about jobs held for 5 or more years. If the Respondent worked for 5+ years on any other jobs, start and stop dates are obtained for the most recent of them. If any other of the 5+ year jobs had a retirement plan, up to 2 more job start and stop years may be asked. These job history questions were not asked in Waves 2A or 3A. For those in the AHEAD entry cohort, job history information was collected at Wave 4. In Wave 2A if the Respondent is unemployed but has worked in the last two years, then the stop date of the last job is asked.

After the first interview, the Respondent is asked when the last interview job ended if the Respondent changes work status, e.g., from employed to not.

For the first interview, the most recent job stop date is selected from among the retrospective job history dates that precede the interview, if the Respondent is not working. This is based on a comparison of the actual dates given rather than simply using the particular "most recent job" question.

At subsequent interviews where the Respondent is not working, s/he is asked when the previous interview job ended. The derivation uses the most recent job stop date. This is based on a comparison of the actual dates given, selecting the most recent date. If the Respondent is not working over consecutive waves, `RwJLASTM` and `RwJLASTY` are carried forward.

Job stop dates are reported as month and year or just year. If the month is missing then `RwJLASTM` is set to missing. To help fill in missing job stop dates between interviews, the months and years given for retirement, disability, unemployment, and temporary layoff are also examined. These dates are asked when the Respondent reports the applicable employment status.

If the Respondent is working, then `RwJLASTM` and `RwJLASTY` are set to a .W missing code. If the Respondent never worked, `RwJLASTM` and `RwJLASTY` are set to a .N missing code.

`SwJLASTM` and `SwJLASTY` are taken from the wave "w" spouse's self-report, i.e., from the spouse's `RwJLASTM` and `RwJLASTY`.

## Cross Wave Differences in Original HRS Data

Questions at each interview ask the Respondent's current work status and job change information. Generally at a Respondent's first interview, information about past jobs is obtained. The types of information, question wording, and general structure of questions on job transitions and history are similar across waves but some of the details vary. For the AHEAD entry cohort, the complete set of job history questions are not asked in Waves 2A and 3A, but are asked for the first time at Wave 4.

At the Respondent's first interview, or Wave 4 for the AHEAD entry cohort, questions are asked about past jobs. If the Respondent is not working, then information is gathered about her/his last job, if there is one. Whether the Respondent is working or not, questions also ask about jobs held 5 or more years, besides the current or last job. If the Respondent has at least one other past job held 5 or more years, the start and stop months, occupation, and industry are collected for the most recent one. If there is more than one 5-year job, then a question asks:

"Besides the jobs you have already told me about, have you worked for any other employer where you were included in a pension or retirement plan, or in a tax-deferred savings plan of some sort?"

If the Respondent answers yes, then the start and stop years of up to two of these jobs are obtained, but industry and occupation are not asked. Altogether the retrospective job history can provide information on up to 3 jobs and a last job, if the Respondent is unemployed. The 3 jobs will only include the most recent past job that lasted at least 5 years, and 2 more that offered pension or retirement plans.

In Wave 2A, if the Respondent is not working, but has worked during the last two years, information about that last job is collected, including the stop date.

Each interview obtains the Respondent's current work status. At the Respondent's first interview, questions ask the start date, industry, and occupation of her/his current job if s/he is working. At subsequent interviews, changes in work status, self-employment status, or employer trigger questions that ask for the stop date of the job that ended between interviews.

There are many differences across waves in the way the interview proceeds through these job questions, e.g., how many places the same question is asked, which questions are skipped, how much the skip pattern depends on preloaded information, etc.

## HRS Variables Used

### HRS 1992:

V12717	F2:ANY WRK FOR PAY :IND
V12718	F3:WHO WORK FOR :IND
V2708	F1a:MONTH UNEMPLOYED
V2711	F1c:LAST WRK THIS JOB-MO
V2712	F1c:LAST WRK THIS JOB-YR
V2713	F1d:MO BECAME DISABLED
V2714	F1d:YR BECAME DISABLED
V2715	F1e:MONTH RETIRED
V2716	F1e:YEAR RETIRED
V2717	F2:ANY WRK FOR PAY :IMP
V2718	F3:WHO WORK FOR :IMP
V3401	G1: RK/PAY +FEW MOS:IMP
V3402	G1A:MO LST WRK W/PAY
V3403	G1A:YR LST WRK W/PAY
V3607	H7:YEAR STP WRKNG AT JB
V3705	H26:1ST:YR LEFT THERE
V3805	H26:NXT:YR LEFT THERE

### AHEAD 1993:

B1174	G1. WORKING CURRENTLY?
B1175	G1a. WORK LAST 2 YRS?
B1178	G2. CURRENTLY SELF EMPLOYED
B1207	G11. JOB LAST 2 YEARS: END MONTH
B1208	G11. JOB LAST 2 YEARS: END YEAR
B1232	G20. EVER WORK 10/+ YRS?

### HRS 1994:

W3307	FA1a.UNEMPLOYED-MONTH
W3308	FA1b.UNEMPLOYED-YEAR
W3310	FA1d.LAST WORKED ON JOB-
W3311	FA1e.LAST WORKED ON JOB-
W3312	FA1f.DISABLED-MONTH
W3313	FA1f.DISABLED-YEAR
W3314	FA1h.RETIRED-MONTH
W3315	FA1h.RETIRED-YEAR
W3316	FA2.WORKING FOR PAY
W3317	FA3.WORK FOR SOMEONE ELS
W3318	FA5.STOPPED WORKING FOR
W3319	FA5.STOPPED WORKING FOR
W3503	FA26.STOPPED WORKING FOR
W3504	FA26.STOPPED WORKING FOR
W4200	FB2.STOPPED WORK FOR EMP



W4201	FB2a.STOPPED WORK FOR EM
W4800	FC2.MONTH STOPPED SELF-E
W4801	FC2a.YEAR STOPPED SELF-E
W4897	FC16.MONTH STOPPED WORK
W4898	FC16a.YEAR STOPPED WORK
W7000	G1.EVER WRKD FOR PAY MOR
W7002	G1a.LAST WORKED-YEAR
W7003	G1a.LAST WORKED-YEARS AG
W7004	G1a.LAST WORKED-MONTH
W7108	H7.LEFT EMPLOYER-YEAR
W7109	H7.LEFT EMPLOYER-YEARS A
W7110	H7.LEFT EMPLOYER-AGE
W7163	EMP1. H26.LEFT EMPLOYER-
W7197	EMP2. H26.LEFT EMPLOYER-
AHEAD 1995:	
D2626M1	GA1. CURRENT JOB STATUS
D2626M2	GA1. CURRENT JOB STATUS
D2626M3	GA1. CURRENT JOB STATUS
D2627	GA1A. WHEN BECAME UNEMPLOYED
D2628	GA1B. YEAR BECAME UNEMPLOYED
D2633	GA1D. MONTH LAST WORKED - TEMPORARY
D2634	GA1E. YEAR LAST WORKED - TEMPORARY
D2638	GA1F. MONTH DISABLED
D2639	GA1G. YEAR DISABLED
D2643	GA1J.YEAR RETIRED
D2644	GA1J.MONTH RETIRED
D2651	GA2.WORKING ANY CURRENT
D2653	GA3. SELF/OTHER EMPLOYED
D2654	GA5. MONTH STOPPED SELF-EMPL
D2655	GA5A. YEAR STOPPED SELF-EMPL
D2759	GA26. MONTH STOPPED WORKING WAVE I EMPLO
D2760	GA26A. YEAR STOPPED WORKING WAVE I EMPLO
D3188	GB2. MONTH STOPPED SELF-EMPL
D3545	GC2. MONTH STOPPED SELF-EMPL
D3546	GC2A. YEAR STOPPED SELF-EMPL
D3639	GC16. MONTH STOPPED WORKING WAVE I EMPLO
HRS 1996:	
E2612	G1A.UNEMPLOYED-MONTH
E2613	G1B.UNEMPLOYED-YEAR
E2616	G1D.LAST WORKED ON JOB-MONTH
E2617	G1E.LAST WORKED ON JOB-YEAR
E2619	G1F.DISABLED-MONTH
E2620	G1G.DISABLED-YEAR
E2622	G1H.RETIRED-MONTH
E2623	G1J.RETIRED-YEAR
E2627	G2.WORKING FOR PAY
E2628	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
E2630	G5.STOPPED WORKING FOR SELF-MONTH
E2631	G5A.STOPPED WORKING FOR SELF-YEAR
E2667	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
E2668	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
E3125	GG1.EVER WRKD FOR PAY MORE THN FEW MTHS?
E3127	GG1A.LAST WORKED-YEAR
E3128	GG1A.LAST WORKED-YEARS AGO
E3129	GG1A.LAST WORKED-MONTH
E3337	GH7.LEFT EMPLOYER-YEAR
E3338	GH7.LEFT EMPLOYER-YEARS AGO
E3339	GH7.LEFT EMPLOYER-AGE
HRS 1998:	

F3116	G1A.UNEMPLOYED-MONTH
F3117	G1B.UNEMPLOYED-YEAR
F3120	G1D.LAST WORKED ON JOB-MONTH
F3121	G1E.LAST WORKED ON JOB-YEAR
F3123	G1F.DISABLED-MONTH
F3124	G1G.DISABLED-YEAR
F3126	G1H.RETIRED-MONTH
F3127	G1J.RETIRED-YEAR
F3131	G2.WORKING FOR PAY
F3132	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
F3134	G5.STOPPED WORKING FOR SELF-MONTH
F3135	G5A.STOPPED WORKING FOR SELF-YEAR
F3188	G26.STOP WORK FOR PREV WAVE EMPLOYER-MON
F3189	G26A.STOP WORKING FOR PREV WAVE EMPLOYER
F3643	GG1.EVER WORKED FOR PAY MORE THAN FEW MT
F3644	GG1A1.LAST WORKED WHEN-YEAR
F3645	GG1A2.LAST WORKED WHEN-YEARS AGO
F3647	GG1A.LAST WORKED-MONTH
F3842	GH7.LEFT EMPLOYER-YEAR
F3843	GH7.LEFT EMPLOYER-YEARS AGO
F3844	GH7.LEFT EMPLOYER-AGE
F3904_1	GH26.LEFT EMPLOYER-YEAR
F3904_2	GH26.LEFT EMPLOYER-YEAR
HRS 2000:	
G3366	G1A.UNEMPLOYED-MONTH
G3367	G1B.UNEMPLOYED-YEAR
G3370	G1D.LAST WORKED ON JOB-MONTH
G3371	G1E.LAST WORKED ON JOB-YEAR
G3373	G1F.DISABLED-MONTH
G3374	G1G.DISABLED-YEAR
G3376	G1H.RETIRED-MONTH
G3377	G1J.RETIRED-YEAR
G3381	G2.WORKING FOR PAY
G3382	G3.WORK FOR SOMEONE ELSE/SELF-EMPLOYED
G3384	G5.STOPPED WORKING FOR SELF-MONTH
G3385	G5A.STOPPED WORKING FOR SELF-YEAR
G3437	G26.STOP WORK PREV WAVE EMPLOYR-MO
G3438	G26A.STOP WORK PREV WAVE EMPLOYR-YR
G3953	GG1.WORK FOR PAY MORE THAN FEW MOS
G3954	GG1A1.LAST WORKED WHEN-YEAR
G3955	GG1A2.LAST WORKED WHEN-YEARS AGO
G3957	GG1A.LAST WORKED-MONTH
G4105	GH7Y1. LEFT EMPLOYER-YEARS AGO
G4106	GH7Y2. LEFT EMPLOYER-AGE
G4177_1	GH26.LEFT EMPLOYER-YEAR
G4177_2	GH26.LEFT EMPLOYER-YEAR
HRS 2002:	
HJ007	MO UNEMPLOYED
HJ008	YR UNEMPLOYED
HJ011	MO LAST WORKED - LAID OFF
HJ012	YR LAST WORKED - LAID OFF
HJ014	DISABLED-MO
HJ015	DISABLED- YR
HJ017	RETIRED-MO
HJ018	RETIRED-YR
HJ020	WORKING FOR PAY
HJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
HJ023	STOPPED WORKING FOR SLF-MO
HJ024	STOPPED WORKING FOR SLF- YR

HJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
HJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
HK001	WORK FOR PAY MORE THAN FEW MOS
HK002	LAST WRKED WHEN-YR
HK003	LAST WRKED WHEN-YRS AGO
HK004	LAST WRKED-MO
HL017	LEFT EMPLOYER-YRS AGO
HL018	LEFT EMPLOYER- AT AGE
HL079_1	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
HL079_2	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2004:	
JJ007	MO UNEMPLOYED
JJ008	YR UNEMPLOYED
JJ011	MO LAST WORKED - LAID OFF
JJ012	YR LAST WORKED - LAID OFF
JJ014	DISABLED-MO
JJ015	DISABLED- YR
JJ017	RETIRED-MO
JJ018	RETIRED-YR
JJ020	WORKING FOR PAY
JJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
JJ023	STOPPED WORKING FOR SLF-MO
JJ024	STOPPED WORKING FOR SLF- YR
JJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
JJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
JK003	WORK FOR PAY MORE THAN FEW MOS
JK004	LAST WRKED WHEN-YR
JK005	LAST WRKED WHEN-YRS AGO
JK006	LAST WRKED-MO
JL017	LEFT EMPLOYER-YRS AGO
JL018	LEFT EMPLOYER- AT AGE
JL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
JL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2006:	
KJ007	MO UNEMPLOYED
KJ008	YR UNEMPLOYED
KJ011	MO LAST WORKED - LAID OFF
KJ012	YR LAST WORKED - LAID OFF
KJ014	DISABLED-MO
KJ015	DISABLED- YR
KJ017	RETIRED-MO
KJ018	RETIRED-YR
KJ020	WORKING FOR PAY
KJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
KJ023	STOPPED WORKING FOR SLF-MO
KJ024	STOPPED WORKING FOR SLF- YR
KJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
KJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
KK003	WORK FOR PAY MORE THAN FEW MOS
KK004	LAST WRKED WHEN-YR
KK005	LAST WRKED WHEN-YRS AGO
KK006	LAST WRKED-MO
KL017	LEFT EMPLOYER-YRS AGO
KL018	LEFT EMPLOYER- AT AGE
KL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
KL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2008:	
LJ007	MO UNEMPLOYED
LJ008	YR UNEMPLOYED

LJ011	MO LAST WORKED - LAID OFF
LJ012	YR LAST WORKED - LAID OFF
LJ014	DISABLED-MO
LJ015	DISABLED- YR
LJ017	RETIRED-MO
LJ018	RETIRED-YR
LJ020	WORKING FOR PAY
LJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
LJ023	STOPPED WORKING FOR SLF-MO
LJ024	STOPPED WORKING FOR SLF- YR
LJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
LJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
LK003	WORK FOR PAY MORE THAN FEW MOS
LK004	LAST WRKED WHEN-YR
LK005	LAST WRKED WHEN-YRS AGO
LK006	LAST WRKED-MO
LL017	LEFT EMPLOYER-YRS AGO
LL018	LEFT EMPLOYER- AT AGE
LL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
LL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2010:	
MJ007	MO UNEMPLOYED
MJ008	YR UNEMPLOYED
MJ011	MO LAST WORKED - LAID OFF
MJ012	YR LAST WORKED - LAID OFF
MJ014	DISABLED-MO
MJ015	DISABLED- YR
MJ017	RETIRED-MO
MJ018	RETIRED-YR
MJ020	WORKING FOR PAY
MJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
MJ023	STOPPED WORKING FOR SLF-MO
MJ024	STOPPED WORKING FOR SLF- YR
MJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
MJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
MK003	WORK FOR PAY MORE THAN FEW MOS
MK004	LAST WRKED WHEN-YR
MK005	LAST WRKED WHEN-YRS AGO
MK006	LAST WRKED-MO
ML017	LEFT EMPLOYER-YRS AGO
ML018	LEFT EMPLOYER- AT AGE
ML035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
ML035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2012:	
NJ007	MO UNEMPLOYED
NJ008	YR UNEMPLOYED
NJ011	MO LAST WORKED - LAID OFF
NJ012	YR LAST WORKED - LAID OFF
NJ014	DISABLED-MO
NJ015	DISABLED- YR
NJ017	RETIRED-MO
NJ018	RETIRED-YR
NJ020	WORKING FOR PAY
NJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
NJ023	STOPPED WORKING FOR SLF-MO
NJ024	STOPPED WORKING FOR SLF- YR
NJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
NJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
NK003	WORK FOR PAY MORE THAN FEW MOS

NK004	LAST WRKED WHEN-YR
NK005	LAST WRKED WHEN-YRS AGO
NK006	LAST WRKED-MO
NL017	LEFT EMPLOYER-YRS AGO
NL018	LEFT EMPLOYER- AT AGE
NL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
NL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2
HRS 2014:	
OJ007	MO UNEMPLOYED
OJ008	YR UNEMPLOYED
OJ011	MO LAST WORKED - LAID OFF
OJ012	YR LAST WORKED - LAID OFF
OJ014	DISABLED-MO
OJ015	DISABLED- YR
OJ017	RETIRED-MO
OJ018	RETIRED-YR
OJ020	WORKING FOR PAY
OJ021	WORK FOR SOMEONE ELSE/SLF-EMPLOYED
OJ023	STOPPED WORKING FOR SLF-MO
OJ024	STOPPED WORKING FOR SLF- YR
OJ063	STOP/RETIRE WORK PREV WAVE EMPLOYER-MO
OJ064	STOP/RETIRE WORK PREV WAVE EMPLOYER-YR
OK003	WORK FOR PAY MORE THAN FEW MOS
OK004	LAST WRKED WHEN-YR
OK005	LAST WRKED WHEN-YRS AGO
OK006	LAST WRKED-MO
OL017	LEFT EMPLOYER-YRS AGO
OL018	LEFT EMPLOYER- AT AGE
OL035A	LEFT EMPLOYER- INCLUDE PENSION- YR- 1
OL035B	LEFT EMPLOYER- INCLUDE PENSION- YR- 2

## Appendix A

## Section A: Demographics

### ID Adjustments

In 2012, based on information from HRS, HHID=202173 in all household level modules should be HHID=202073 and NPN\_FIN=010. HHIDPN=202147020 was dropped and the following ID changes were made:

HHIDPN=59855021 changed to 59855010

HHIDPN=95650041 changed to 95650010

HHIDPN=502432021 changed to 502432010

HHIDPN=520845011 changed to 520845020

In 2010, based on information from HRS, HHIDPN= 526934010 changed to 525520020 and HHIDPN= 529766010 changed to 520845020. The following cases were dropped: HHIDPN=920337010, 920337020, 902054010 and 532056010.

One case was married to an HRS-AHEAD overlap case in 1992 but not identified as an overlap on the Tracker file. We set this case to as overlap with RAOHRSID of 20582020 and HHIDPN of 204940020. The only wave to which this case responds is Wave 1. All HRS-AHEAD overlap cases are identified by their AHEAD HHIDPNs on the RAND HRS Longitudinal File.

The AHEAD-AHEAD overlap cases are 205906010 who becomes 205864011 in 1998, and 205399010 who becomes 208545010 in 2000. On the RAND HRS Longitudinal File these cases are identified as 205864011 and 208545010, with RAOVRAYR set to 1995 and 1998, respectively. RAOHDID holds their original 1993 HHIDPNs.

In 2004, two households were identified and selected to be in the HRS survey. Both these households were 2-person households containing a married couple. However, there is a lag between when a household is identified and when they actually start to answer survey questions. So, it was 2010 before they actually responded to any HRS survey questions. By 2010, these households had split and so, in the 2010 Core data we had the following IDs HHIDPN=526934010 split from HHIDPN=525520010 and HHIDPN=529766010 split from HHIDPN=520845010.

By 2012, these couples had reunited and so in the 2012 Tracker file, their IDs change from

HHIDPN=526934010 to HHIDPN=525520020

HHIDPN=529766010 to HHIDPN=520845020

In the RAND HRS data products, these cases are referenced by their 2012 IDs. The IDs they had in the 2010 Core data can be found in RAOHRSID.

Based on data alerts from HRS, we have made several changes to cases in 2000 and 2002. In 2002, HHIDPNs 22965040 and 22965041 are deleted. This was the only wave where 22965041 responded so this case has been deleted from the RAND HRS Longitudinal File. In the other case, 22956040 responds to other waves so is still included in the RAND HRS Longitudinal File but has INW6=0. In 2000, HHIDPN 211430021 is deleted and 211430020 is set to not partnered. Also in 2000, HHIDPN 75573041 is changed to 75573010 as is S5HHIDPN for 75573040.

In Wave 3H, there are a few households that appear to be reunited based on answers to questions in the CoverSheet section. They are reunited in Wave 4, but have different sub-household IDs in Wave 3. We reunite them in Wave 3. These households are: 17520 (PNs 010 and 040), 22999 (PNs 010 and 020), 40609 (PNs 010 and 020), 40441 (PNs 010 and 020), 50945 (PNs 010 and 040). These cases will have different sub-household IDs in H3HHID from the ESUBHH found in the Tracker and core 1996 files. The spouse PNs will also differ.

In 1994, one household, 15730 is split in the core data, but together in Tracker file. In this household, 15730.020 was interviewed, then died before the widow (15730.030) was interviewed. We treat these two cases as being in separate households, as they are in the core data.

In some other households, the Tracker file shows a non-responding spouse, but the core data indicates that the couple being split. We treat these couples as split. In most households, this involves a change for the non-responding spouse so that the sub-household ID on this file differs from that on the Tracker file but still matches that on the core data. For two households, 10646 and 65564, FSUBHH in H4HHID also differs from that on the core 1998 data for the responding ex-spouse. For these two households, and for 23476 and 84287, the spouse PN also differs from that in the Tracker, but the FPN\_SP for these cases is blank in the 1998 core data.

In some cases the Tracker file assigns a spouse PN for a deceased spouse. In other cases the spouse PN is missing on the Tracker file but available in the core data. We set spouse PN to missing if it refers to a deceased spouse, and we fill missing spouse PNs from core data if they are missing on the Tracker file.



## Section B: Income and Wealth Imputations

### Additions & Corrections to Imputations for Previous Years

In Wave 3A, there was one case where we inadvertently calculated an unreasonably large value when converting monthly annuity income to a yearly amount.

In Wave 7, there were some cases with what appeared to be erroneous outlier values for some types of income:

- one case with an unreasonably large value reported for welfare income

- one case with an unreasonably large value for monthly annuity income

HRS has apparently corrected these values in the final release of the data.

In Wave 7, there were five individuals who were not married or partnered, yet reported that their spouses received social security income. HRS has confirmed that the income found in spouse fields should be added to what the Respondents reported receiving.

In Wave 7, there were two individuals whose data changed in specific ways between the early and final releases of the dataset:

- one case in the final release reported receiving only one pension, was missing the amount information, but then responded to the questions concerning additional pensions.

- one case in the final release had the amount of income from self-employment split between the Respondent and spouse, when the entire amount was originally designated to the spouse.

For the first case, HRS proposed a correction that involved changing the number of pensions received, moving the second pension amount to the first pension, and allocating a portion of the income reported for other pensions to the second pension. For the second case, HRS suggested that the question asking who received self-employment income should be set to "both."

In the most recent release of the Tracker file (Version #2) there were two people whose birth dates were changed:

- one case changed from 1941 to 1921

- one case changed from 1937 to 1927

This affects the type of social security they are assigned, that is - retirement or disability. We assigned them to have disability income in Waves 2H (one case), Waves 3H and 4 (both cases), and Wave 5 (one case).

## Section C: Employment History

Some adjustments are made to specific cases that seemed to have unreasonable wage data. They are listed below.

/\* One case in Wave 1 apparently reports an annual income as a biweekly rate \*/

```
if hhidpn=72106010 then V2736=6 ;
```

/\* One case in W2H reports making 9994 hourly in w2 this looks like a missing value, doesn't fit with income, other waves, Make it missing \*/

```
if HHIDPN=64609040 and W3637=9994 then W3637=99994 ;
```

/\* One case in Wave 2H apparently reports their annual income as an hourly rate \*/

```
if hhidpn=76493010 then do ;
    w3631=1 ;          /* make howpd salaried */
    w3632=w3637 ;     /* set to hourly rate reported */
    w3633=6 ;          /* set period to yearly */
end ;
```

/\* Two cases in Wave 2H apparently reports their annual income as an hourly rate \*/

```
if hhidpn=13631020 and W3633=2 then W3633=6;
if hhidpn=49393010 and W3633=2 then W3633=6;
```

/\* Two case in Wave 3H apparently reported their annual income in the hourly variable. \*/

```
if hhidpn=61179011 then e3140=6 ;
if hhidpn=65169010 then do ;
    e2772=1 ;          /* make howpd salaried */
    e2774=e2781 ;     /* set to hourly rate reported */
    e2775=6 ;          /* set period to yearly */
end ;
```

/\* One case in Wave 3H reports monthly rate that, when compared to amount earned LCY, seems to be 100x the actual \*/

```
if hhidpn=18048010 then E2774=E2774/100 ;
```

/\* One case in Wave 3A has an unusual and high hourly rate. No earnings information is available; We set wages to missing \*/

```
if HHIDPN=203514010 then D2870=. ;
```

/\* One case in Wave 7 apparently reports their annual income as monthly \*/

```
if hhidpn=200661020 and KJ192=4 then KJ192=6;
```

/\* Two case in Wave 7 has a typo in their hourly rate. Forgot the decimal place for dollars and cents \*/

```
if hhidpn=51554030 and KJ216=1300 then KJ216=13;
if hhidpn=502205010 and KJ206=539292 then KJ206=53929.2;
```

/\* Two cases in Wave 7 apparently reported their annual income in the hourly variable. \*/

```
if hhidpn in (123505010 124383010) then JJ216 = JJ216/JJ172/JJ179 ;
```

/\* Four cases in Wave 7 reported seemingly annual income in JJ206 \*/

```
if hhidpn in (45438010 137183010 179842020 501770020) then JJ210=6 ;
```

/\* One case in Wave 7 reports receiving \$100,000 a week from SE \*/

```
if hhidpn=501311020 then do;  
jj188=.m ;  
jj192=.m ;  
end;
```

/\* One case in Wave 7 reports receiving 36 million in overtime per month \*/

```
if hhidpn = 501770020 then do ;  
jj225 = .m ;  
jj226 = .m ;  
end;
```

/\* One case in Wave 8 apparently reports their annual income as bi-monthly \*/

```
if hhidpn=12967010 and KJ210=5 then KJ210=6;
```

/\* One case in Wave 9 apparently reports their annual income as monthly \*/

```
if hhidpn=501707020 and LJ210=4 then LJ210=6;
```

/\* One case in Wave 10 apparently reports their annual income as hourly \*/

```
if hhidpn=903516010 and MJ216=55000 then MJ216=26.45;
```