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Program on Global Aging, Health, and Policy

Harmonized CHARLS Documentation

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Sandy Chien, Ashley Lin, Drystan Phillps, & Jinkook Lee

g2aging.org

Preface

The China Health and Retirement Longitudinal Study (CHARLS) is a longitudinal study of individuals over age 45 in China. It was designed to better understand the socioeconomic determinants and consequences of aging. The survey includes a rich set of questions regarding economic standing, physical and psychological health, demographics and social networks of aged persons. The survey is designed to ensure comparability with the Health and Retirement Survey (HRS) in the United States, Indonesia Family Life Panel (IFLS) in Indonesia, and the Korean Longitudinal Study of Aging (KLoSA) in the Republic of Korea. Part of the reason for the close connection is to allow cross-country comparisons using these data.

To facilitate such comparisons, we, with funding and support from National Institute on Aging (NIA), have created the Harmonized CHARLS data which is created to harmonize the CHARLS with the RAND HRS data. To make the data more accessible to researchers, we create a user-friendly version of dataset, similar to the RAND HRS. The RAND HRS 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. Harmonized CHARLS includes variables defined as closely as possible to the RAND HRS. This document describes these data.

The Harmonized CHARLS initiative is part of a larger set of projects carried out by the USC Program on Global Aging, Health, and Policy to increase the availability and ease of use for data sets on aging around the world. In addition to the RAND HRS and Harmonized CHARLS, this includes Harmonized SHARE (Europe and Israel), Harmonized ELSA (England), Harmonized JSTAR (Japan), Harmonized KLoSA (South Korea), Harmonized LASI (India), Harmonized TILDA (Ireland) and Harmonized MHAS (Mexico). This also includes a searchable website, www.g2aging.org, with questionnaires, and other metadata on a larger number of related data sets to facilitate the creation of customized data sets using variables from the original data sets and the harmonized ones.

We are grateful for the continuing support of and funding from NIA. In working with the CHARLS data, we greatly benefited from the help from Dr. Yaohui Zhao, Dr. John Strauss, Dr. Albert Park, Yaoyao Zhu, Yafeng Wavg, and other CHARLS team members. We have greatly benefited from discussions with and the suggestions from our colleagues Arie Kapteyn, Marco Angrisani, Erik Meijer, Bas Weerman, and the RAND HRS team.

Requested Acknowledgment

CHARLS Version and Acknowledgment

Contents

1. Introduction and Overview

This report documents the Harmonized CHARLS data files, a streamlined collection of variables derived from the China Health and Retirement Longitudinal Study (CHARLS). CHARLS is a panel survey of people aged 45 and over and their partners regardless of age in China. The main goal is to provide a high quality nationally representative sample of Chinese residents' data to serve the need of scientific research on health, economic position and quality of life as people aged. The survey elicits information about demographics, income, assets, health, cognition, family structure and connections, health care use and costs, housing, job status and history, expectations, biomarkers and insurance.

CHARLS is supported by Peking University, the National Natural Science Foundation of China, the Behavioral and Social Research Division of the National Institute on Aging, and the World Bank. CHARLS shares the same basic guideline as Health and Retirement Study (HRS) and related aging surveys such as Indonesia Family Life Panel (IFLS) in Indonesia, and the Korean Longitudinal Study of Aging (KLoSA) in the Republic of Korea.

The baseline wave of CHARLS was conducted from 2011 to 2012; the individuals will be followed up every two years and all data will be released to public after one year after the end of data collection. This initial sample included includes 10,257 households and 17,500 individuals in 150 counties/districts and 450 villages or urban communities among 28 provinces. Currently, Wave 1 and 2 data which we describe in this document, are available for study. The Harmonized CHARLS data file incorporates the demographic background data, family information data, family transfer data, health status and function data, household income data, household roster data, housing characteristics data, individual income data, weight data and work, retirement and pension data. It does not include any data which is not for public release.

1.1. Gateway to Global Aging Data

The Health and Retirement Study (HRS) has achieved remarkable scientific success, as demonstrated by an impressive number of users, research studies, and publications using it. Its success has generated substantial interest in collecting similar data as population aging has progressed in every region of the world.

The result has been a number of surveys designed to be comparable with the HRS: the English Longitudinal Study of Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), the Korean Longitudinal Study of Aging (KLoSA), the Japanese Study on Aging and Retirement (JSTAR), the China Health and Retirement Longitudinal Study (CHARLS), and the Longitudinal Aging Study in India (LASI). The overview of this family of surveys, including their research designs, samples, and key domains can be found in Lee (2010).

As these surveys were designed with harmonization as a goal, they provide remarkable opportunities for cross-country studies. The value of comparative analyses, especially the opportunities they offer for learning lessons resulting from policies adopted elsewhere, is widely recognized. Yet there are only a limited number of empirical studies exploiting such opportunities. This is partly due to the difficulty associated with learning multiple surveys and the policies and institutions of each country.

Identifying comparable questions across surveys is the first step toward cross-country analyses. The Gateway to Global Aging Data (G2G) helps users understand and use these large-scale population surveys on health and retirement. The G2G includes several tools to facilitate cross-national health and retirement research. It includes a digital library of survey questions for all participating surveys. Its search engine enables users to find relevant survey questions. The G2G also includes a concordance with information comparing measures within and across surveys over time. Using these tools, researchers can identify all questions related to particular key words or within a domain. The G2G also includes population and sub-population estimates for key harmonized variables.

The G2G can be accessed at www.g2aging.org. For more information about using the G2G visit the Help page. For more information about obtaining the Harmonized CHARLS from downloading the Stata file used to create the Harmonized CHARLS using the G2G see "Chapter 4.Distribution and Technical Notes."

1.2.   Unit of Observation

Like in the HRS, an age-eligible individual is sampled and then this individual and his or her spouse or partner regardless of age is interviewed, but no other household members, even if they are age-eligible. We distinguish between three units of observation: individual, couple, and household. A "couple" is a "single individual or individual with his/her spouse. A "household" includes the single individual, spouse, and all other household members.

1.3.   Data File Structure

The Harmonized CHARLS data contain the first wave of CHALRS. The data are stored in a "fat format" where each observation represents one respondent. The unit of observation is the individual. Each individual is uniquely identified by the unique identifier "ID". Households are identified by HHID. Couples are identified by wave-specific HwCOUPID where "w" refers to the specific wave. Households are identified by the unique identifier "HOUSEHOLDID". It is important to note that unlike the RAND HRS, households in the CHARLS might include multiple couples and other household members.

1.4. Variable Naming Convention

With few exceptions, variable names in the Harmonized CHARLS Data follow a consistent pattern. The first character indicates whether the variable refers to the reference person ("R"), spouse ("S"), a financial unit couple ("H"), and the full household ("HH").[12] The second character indicates the wave to which the variable pertains: "1", or "A". 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:

```
S1HLTHLM
  │    └──────── Health problem limiting work
  │
  └───────────── Wave 1 (2011)
  └───────────── Spouse
```
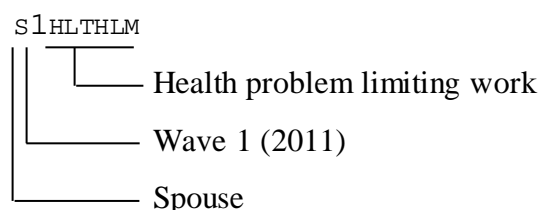
Variable S1HLTHLM captures whether the spouse of the reference person experiences an impairment or health problem that limits the kind or amount of paid work he/she can do. The name of the variable does not indicate who provided the information. For example, the spouse's health problem may have been reported by the spouse himself or herself, or it may have been reported by the reference person as a proxy.

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.

Variable labels also follow a consistent pattern. The first characters denote the name of the variable, followed by a colon. The remainder of the label describes the concept that the variable captures. For example, the variable label of S1HLTHLM is:

```
S1HLTHLM:W1 Hlth problems limit work
```

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

Variable names in the Harmonized CHARLS are generally based on the variable name used in the RAND HRS for the same measure. Measures which are exactly or near-exactly comparable between the Harmonized CHARLS and RAND HRS use the exact same name. For instance RABYEAR is the variable name for the respondent birth year in both the Harmonized CHARLS as well as the RAND HRS. If the Harmonized CHARLS measure is deemed only somewhat comparable with RAND HRS version of that measure, the variable name in the Harmonized CHARLS will often end in "_C." This variable name suffix indicates some CHARLS-specific difference with RAND HRS version of this measure. For example, the Harmonized CHARLS

variable for ADL summary name RwADLA_C while the RAND HRS variable is named RwADLA. The reason for this difference in variable name is that the CHARLS used different components for this summary variable. Other reasons for Harmonized CHARLS-specific variable names include: differences in survey questions, differences in survey routing, and whether both sets of variables use imputed values. Harmonized CHARLS specific variable names are used to notify users that there are substantial differences between the RAND HRS and Harmonized CHARLS measure and comparability between these measure is not straight-forward.

The Harmonized CHARLS includes some variables without Harmonized CHARLS-specific variable names even though the Harmonized CHARLS measure is significantly different from the RAND HRS measure of the same name. In particular wealth and income measures in the Harmonized CHARLS do not use Harmonized CHARLS -specific variable names even though wealth and income measures in the Harmonized CHARLS are expressed in China Yuan while income and wealth measures in the RAND HRS are always expressed in nominal dollars. Users should always check the "Differences with RAND HRS" section of each measure before comparing any Harmonized CHARLS measure to the RAND HRS version of the same measures or any other Harmonized Dataset version of the same measure.

1.5.   Missing Values, Nonresponse, and Imputations

Variables may contain missing values for several reasons. 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 1.

Table 1. Missing Codes

Code	Reason for missing
.	Reference person did not respond to this wave
.a	Age ineligible
.d	Don't know
.r	Refused
.s	Skipped due to routing
.k	No kids
.n	Not applicable
.u	Reference person is not married (for spouse variables)
.v	Spouse did not respond this wave (for spousal variables)
.m	Other missing

The coding scheme varies across variables. Consult the Data Codebook for details on individual variables.

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

1.6.   Weighting and Accounting for Survey Design

The Harmonized CHARLS includes variables to allow users to produce weighted estimates with survey design adjusted standard errors where provided by CHARLS.

CHARLS produces seven different weights. There are two different weights at household level: one is adjusted for non-response and the other is not adjusted for non-response. At the individual level, CHARLS produces three different weights: individual weight without non-response adjustment, individual weight with household non-response adjustment, and individual weight with household and individual non-response adjustment. Finally, CHARLS provides two biomarker weights, one with household non-response adjustment and the other with household and individual non-response adjustment.

In addition to weights, CHARLS uses a stratified (by per capita GDP of urban districts and rural counties) multistage (county/district-village/community-household) proportionate to population size (PPS) random sampling method to strictly control the quality of the samples. For more detail information about weight and survey design, please see http://charls.ccer.edu.cn/uploads/document/public_documents/application/Challenges-of-Population-Aging-in-China-final.pdf at China Health and Retirement Longitudinal Study (CHARLS) website.

2. Wealth and Income Variables

2.1 Units of Observation and financial respondent

In CHARLS, financial questions are asked at three different levels:

1. Individual level: all respondents and spouses answer about their own financial status that include the value of cash, saving account, stocks, mutual funds, government bond, debt, all other savings, individual earnings (wage and bonus), pension income, government transfer income, other income and capital income. Please note that CAHRLS asks individual wage, bonus and pension in both employment and income modules; in order to prevent double counting the value, we only report the higher value of the two as the corresponding income.

2. Other household members (individual-based) level: the financial respondent answers the questions and reports every household member's financial status which includes the value of financial assets, debt, earning income (wage and bonus), pension income, government transfer and other income.

3. Household level: the financial respondent reports the whole household financial status which include the value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, agricultural asset, monetary asset, agricultural income, self-employed activities income, government and/or public transfer income, and capital income.

In order to distinguish whether a value corresponds to the respondent, the spouse, the respondent and spouse as a financial unit, or to the full household, financial variable names either begin with "R", "S", "H", or "HH". If the value corresponds to individual level, the variable names begin with "R" for respondent or "S" for spouse. If the value corresponds to the couple level then the name of the variable will start with "H". On the other hand, if the value corresponds to the full household or other household members then the name of the variable will start with "HH".

For harmonization purposes, it is preferable to use the same unit of observation in different harmonized data sets. But since the HRS neither has information on wealth and income of household members outside the couple nor does the HRS have individual-level asset information, measures are provided at the individual level such as earning, pension and etc., the couple level, and the household level (e.g. asset income and wealth) where possible. Thus, in constructing our couple-level variables, we ignore income and wealth from household members outside the couple. These couple-level variables can be compared to the RAND HRS income and wealth household measures.

For more information, please visit CHARLS official website http://charls.ccer.edu.cn/en

2.2. Currency

All CHARLS financial variables are expressed in current yuan. CHARLS asset questions are asked about current asset values.

For cross-country comparisons of financial variables, these values have to be converted to a single monetary unit. The Harmonized CHARLS dataset includes exchange rates for this purpose. It is the users' responsibility to check what period a variable refers to and accordingly use the appropriate exchange rate.

3. Structure of Codebook

The Data Codebook contains the codebook documenting all variables in the Harmonized CHARLS Data. 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.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                          Self-Report of Health ◄─────────────────────  1      │
└─────────────────────────────────────────────────────────────────────────────┘

      Wave Variable  Label                                        Type

 2 ──►   R1SHLT      R1SHLT:w1 r self-report of health            Categ   4

 3 ──
         1  S1SHLT    S1SHLT:w1 s self-report of health            Categ
```

5 ──► Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SHLT	12612	3.864	0.923	1.00	5.00
S1SHLT	9854	3.857	0.921	1.00	5.00

6 ──► Categorical Variable Codes

```
Value-------------------|        R1SHLT
.d:dk                   |             8
.m:missing              |           123
.r:refuse               |             1
.s:skip                 |          4964
1.excellent             |          1576
2.very good             |          3467
3.good                  |          3709
4.fair                  |          2264
5.poor                  |           889

Value-------------------|        S1SHLT
.d:dk                   |             4
.m:missing              |            40
.s:skip                 |          3825
.u:unmar                |          3538
.v:sp NR                |           447
1.excellent             |            85
2.very good             |           893
3.good                  |          1796
4.fair                  |          4650
5.poor                  |          2430
```

7 ──► How Constructed

CHARLS has two scales for respondents to self-report their current health condition; one is a scale ranging from 1 for Excellent to 5 for Poor, and the other is a scale ranging from 1 for Very Good to 5 for Very Bad. Respondents were asked their health status twice; in the beginning of the health module and again in the end of the health module. In the beginning of the health section, respondents are randomly assigned into two groups, the first group of respondents are asked first scale in the beginning and second scale at the end. The second group of respondents are vice versa.

RwSHLT is the respondent's self-reported general health status using a scale ranging from 1 for Excellent to 5 for Poor. When respondents don't know, are missing, or refuse to answer, RwSHLT is assigned special missing values .d, .m, or .r, respectively. RwSHLT is

```
            set to skip (.s) if the question is not asked due to the random sample selection. RwSHLT
            is set to missing (.) for respondents who did not respond to the current wave.
```

(8) → **Cross-Wave Differences in CHARLS**

```
            No differences known.
```

(9) → **Differences with the RAND HRS**

```
            Unlike the HRS, CHARLS also employs a second scale of self-reported general health
            status. RwSHLTA is the respondent's self-reported general health status using a scale
            ranging from Very Good to Very Poor.
```

(10) → **CHARLS Variables Used**

```
            Wave 1:
                DA001            self comment of your health
```

---

(1) *Title*: The variables are documented in groups according to the concept that they measure. For example, there are eight variables related to self-reported health, corresponding to four 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 waves of variables in the group.

(3) *Variable Labels*: This entry shows the 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 CHARLS*: This entry briefly describes differences in question wording or contents between interview waves.

(**9**) *Differences with the RAND HRS*: This entry describes any differences between the RAND HRS version of the variable and the Harmonized CHARLS version of the variable. It is imperative these differences are understood when using harmonized measures.

(**10**) *CHARLS Variables Used*: This entry provides the names and labels of raw CHARLS variables that were used to construct the new variables.

4. Distribution and Technical Notes

The Harmonized CHARLS Data file is created using the Gateway to Global Aging Data (www.g2aging.org) and saved in a Stata format. To create and use the file one must have at least Stata/IC, version 12 or higher. To create the Harmonized CHARLS visit the Download tab of the Gateway to Global Aging Data. Under the CHARLS column click the link for the Harmonized CHARLS Stata Code. From this page you can download the Harmonized CHARLS Stata Creation Code and find further instructions on running the Creation Code in Stata. Once created the Harmonized CHARLS data file can be accessed anytime by the user with or without using the G2G website.

This is version *B.2* of the Harmonized CHARLS Data.

A copy of this Harmonized CHARLS Codebook can be obtained on the Gateway to Global Aging Data (www.g2aging.org) under the Download tabs.

5. Data Codebook

Section A: Demographics and Identifiers

Identifiers

Wave	Variable	Label	Type
1	ID	id:person identifier/12-char	Char
1	HOUSEHOLDID	householdid:hhold id /10-char	Char
1	HHID	hhid:hhold id /num	Cont
1	PNC	pnc:person id /2-char	Char
1	PN	pn:person id /num	Cont
1	ID_W1	id_w1:wave 1 person identifier/11-char	Char
1	HHID_W1	hhid_w1:wave 1 hhold identifier/9-char	Char
1	COMMUNITYID	communityid:community id/7-char	Char

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HHID	21131	423654942.12	701759779.85	10104101.00	3477633140.00
PN	21131	1.45	0.51	1.00	4.00

How Constructed:

ID is the 12-digit character identifier that identifies each respondent uniquely. It consists of two separate parts:

HouseholdID is a 10-digit character household identifier to indicate the household to which a respondent belonged when entering the panel. HHID is the numeric version of household identifier.

PNC is a 2-digit character person identifier used by CHARLS to indicate each participant within the household. PN is the numeric version of person identifier.

The original Wave 1 identifiers are ID_w1 and hhid_w1. ID_w1 is a 11-digit identifier for each respondent and hhid_w1 is a 9-digit character household identifier.

Starting at wave 2, CHARLS revised the ID and HouseholdID formats for splitting household due to divorce. The ID and HouseholdID are based on wave 2 data. User can link CHARLS wave 2 original data using ID and HouseholdID and link CHARLS wave 1 original data using ID_w1 and hhid_w1.

communityID is a 7-digit character community identifier to indicate which community that the household belongs to.

Cross Wave Differences in CHARLS

Starting at wave 2, CHARLS revised the householdID into 10 digit number and the 10th digit is an indicator for splitting household due to divorce. Also starting at wave 2, CAHRSL revised the individual identifier ID to a 12 digit number, where the last two digits identify individuals within households which is comparable to those in baseline individual ID.

Differences with the RAND HRS

CHARLS revised the wave 1 ID and householdID so users need to use ID_w1 and hhid_w1 to link wave 1 original data.

CHARLS Variables Used:

```
Wave 1:
    COMMUNITYID     Community ID
    HOUSEHOLDID     Household ID
    ID              Individual ID
Wave 2:
    COMMUNITYID     community id
    HOUSEHOLDID     household id
    ID              individual id
```

```
┌─────────────────────────────────────────────────────────────────────────┐
│                         Spouse Identifier                                 │
└─────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable       Label                                               Type

  1  S1ID           s1id:w1 spouse id (char)                            Char
  2  S2ID           s2id:w2 spouse id (char)                            Char

  1  S1PN           s1pn:w1 spouse person id(num)                       Cont
  2  S2PN           s2pn:w2 spouse person id(num)                       Cont

  1  RASPID1        raspid1:id of 1st spouse                            Char
  1  RASPID2        raspid2:id of 2nd spouse                            Char
```

Descriptive Statistics

```
Variable         N         Mean      Std Dev    Minimum     Maximum

S1PN           17705       1.26        0.71       0.00        2.00
S2PN           18605       1.20        0.75       0.00        4.00
```

How Constructed:

SwID is derived from the ID of persons with a matching couple id. If the respondent is
not married or partnered or if the respondent is married but there is no other
respondent in the data then SwID is set to 0. SwPN is derived from the PN of person
with a matching couple id. Like SwID, SwPN is set to 0 if the respondent is not
married or partnered, or if the respondent is married but there is no other respondent
in the data.

The SwID of the respondent's first spouse is given in RASPID1. With subsequent waves
of data, the respondent may separate from the current spouse and remarry. The new
spouse's ID will be recorded in RASPID2, as the second spouse (which is not the same
as the spouse in wave 2 of the data) and so on.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
    ID             Individual ID
Wave 2:
    HOUSEHOLDID    household id
    ID             individual id
```

Couple Identifier

```
Wave Variable        Label                                                        Type

  1  H1COUPID        h1coupid:w1 couple id/num                                    Cont
  2  H2COUPID        h2coupid:w2 couple id/num                                    Cont
```

Descriptive Statistics

```
Variable           N          Mean       Std Dev      Minimum      Maximum

H1COUPID         17705       5159.02      2967.95        1.00      10251.00
H2COUPID         18605       5572.73      3202.35        1.00      11187.00
```

How Constructed:

```
HwCOUPID is the couple identifier and uniquely identifies a couple in a given wave.
HwCOUPID is the same for each person in the couple household, allowing researchers to
match spouses who are both in the data.

A respondent whose spouse or partner does not appear in the survey data or does not
have a spouse or partner (unmarried, divorced, widowed, separated) are also assigned a
value for HwCOUPID, such that HwCOUPID is not missing for any respondent in a given
wave. HwCOUPID is set to plain missing (.) for respondents who did not respond to the
current wave.
```

Cross Wave Differences in CHARLS

```
No differences known.
```

Differences with the RAND HRS

```
No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
    ID             Individual ID
Wave 2:
    HOUSEHOLDID    household id
    ID             individual id
```

Wave Status: Response Indicator

Wave Variable	Label	Type
1 INW1	inw1:in wave 1	Categ
2 INW2	inw2:in wave 2	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
INW1	21131	0.84	0.37	0.00	1.00
INW2	21131	0.88	0.32	0.00	1.00

Categorical Variable Codes

Value	INW1	INW2
0.no	3426	2526
1.yes	17705	18605

How Constructed:

INWw indicates whether an individual in the CHARLS sample responded to a particular wave. Respondents identified as having either a full or partial interview either in person or through a proxy are considered to have responded and are coded as 1.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
    ID             Individual ID
Wave 2:
    HOUSEHOLDID    household id
    ID             individual id
```

Wave Status: Interview Status

Wave	Variable	Label	Type
1	R1IWSTAT	r1iwstat: w1 r interview status	Categ
2	R2IWSTAT	r2iwstat: w2 r interview status	Categ
1	S1IWSTAT	s1iwstat: w1 s interview status	Categ
2	S2IWSTAT	s2iwstat: w2 s interview status	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWSTAT	21131	0.84	0.37	0.00	1.00
R2IWSTAT	21131	1.87	2.43	1.00	9.00
S1IWSTAT	14889	1.00	0.00	1.00	1.00
S2IWSTAT	14819	1.00	0.00	1.00	1.00

Categorical Variable Codes

Value	R1IWSTAT	R2IWSTAT
0.inap.	3426	
1.resp, alive	17705	18605
5.nr, died this wv		441
9.nr, dk if alive or died		2085

Value	S1IWSTAT	S2IWSTAT
.u:unmar	2278	2426
.v:sp nr	538	1360
1.resp, alive	14889	14819

How Constructed:

RwIWSTAT variable gives the response status of the respondent at each wave.
Respondents are identified by code 1, non-respondents are identified by codes 0, 4-6
and 9.

If the Respondent has not entered the sample yet then RwIWSTAT is set to 0. 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. Non-response code 9 means that it is not possible to determine whether
the non-responding individual is alive or dead.

SwIWSTAT gives the response and mortality status of the current wave's spouse. It is
taken from the spouse's RwIWSTAT. 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 Master file on why the spouse did not respond. Note also that SwIWSTAT is set to
plain missing (.) if an individual did not respond at a particular interview,
including if he/she died.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

```
No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
    ID             Individual ID
Wave 2:
    HOUSEHOLDID    household id
    ID             individual id
    INDV_L_DIED    whether respondent died in longitudinal sample
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                        Household Analysis Weight                              │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                   Type

  1  R1WTHH        r1wthh:w1 household weight without non-response adjustment  Cont
  2  R2WTHH        r2wthh:w2 household weight without non-response adjustment  Cont

  1  R1WTHHA       r1wthha:w1 household weight with non-response adjustment    Cont
  2  R2WTHHA       r2wthha:w2 household weight with non-response adjustment    Cont

  2  R2WTHHL       r2wthhl:w2 household longitudinal weight                    Cont
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev     Minimum      Maximum

R1WTHH        17705     22768.24    18465.24     7772.42    500653.19
R2WTHH        18853     21529.42    19351.38     5882.45    591967.31

R1WTHHA       17705     29104.66    35179.87     9374.16   1001306.38
R2WTHHA       18853     28350.59    37112.62     6951.99    992518.31

R2WTHHL       16358     32867.50    43203.57     6325.83   1502244.75
```

How Constructed:

The household weights are taken directly from the weights file.

RwWTHH is the household level weight without the non-response adjustment.

RwWTHHA is the household level weight with the non-response adjustment.

RwWTHHL is the household level longitudinal weight.

RwWTHH, RwWTHHA, and RwWTHHL are set to plain missing (.) if the respondent did not respond at a particular interview.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

The RAND HRS does not provide the household level longitudinal weight, and the weights with household non-response adjustment.

CHARLS Variables Used:

```
Wave 1:
    HH_WEIGHT       household weight without non-response adjustment
    HH_WEIGHT_AD1   household weight with non-response adjustment
Wave 2:
    HH_L_WEIGHT     household longitudinal weight
    HH_WEIGHT       cross-section household weight without nonresponse adjus
    HH_WEIGHT_AD1   cross-section household weight with nonresponse adjustme
```

Person-Level Analysis Weight

Wave	Variable	Label	Type
1	R1WTRESP	r1wtresp:w1 individual weight without non-response adjustmen	Cont
2	R2WTRESP	r2wtresp:w2 individual weight without non-response adjustmen	Cont
1	S1WTRESP	s1wtresp:w1 s weight without non-response adjustment	Cont
2	S2WTRESP	s2wtresp:w2 s weight without non-response adjustment	Cont
1	R1WTRESPA	r1wtrespa:w1 individual weight with hh non-response adjustme	Cont
2	R2WTRESPA	r2wtrespa:w2 individual weight with hh non-response adjustme	Cont
1	S1WTRESPA	s1wtrespa:w1 s weight with hh non-response adjustment	Cont
2	S2WTRESPA	s2wtrespa:w2 s weight with hh non-response adjustment	Cont
1	R1WTRESPB	r1wtrespb:w1 individual weight with hh/ind non-response adju	Cont
2	R2WTRESPB	r2wtrespb:w2 individual weight with hh/ind non-response adju	Cont
1	S1WTRESPB	s1wtrespb:w1 s weight with hh/ind non-response adjustment	Cont
2	S2WTRESPB	s2wtrespb:w2 s weight with hh/ind non-response adjustment	Cont
2	R2WTRESPL	r2wtrespl:w2 individual longitudinal weight	Cont
2	S2WTRESPL	s2wtrespl:w2 individual longitudinal weight	Cont
1	R1WTRESPBIOA	r1wtrespbioa:w1 individual biomarker weight with hh non-resp	Cont
1	S1WTRESPBIOA	s1wtrespbioa:w1 individual biomarker weight with hh non-resp	Cont
1	R1WTRESPBIOB	r1wtrespbiob:w1 individual biomarker weight with hh/ind non-	Cont
1	S1WTRESPBIOB	s1wtrespbiob:w1 individual biomarker weight with hh/ind non-	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WTRESP	17705	24578.22	20130.80	7772.42	500653.19
R2WTRESP	18595	23158.56	20729.21	5882.45	591967.31
S1WTRESP	14889	23802.37	19075.82	7772.42	500653.19
S2WTRESP	14531	22486.03	19932.85	7356.49	591967.31
R1WTRESPA	17705	31358.83	36831.77	9374.16	1001306.38
R2WTRESPA	18595	30446.06	38649.23	6951.99	992518.31
S1WTRESPA	14889	30114.13	36046.42	9374.16	1001306.38
S2WTRESPA	14531	29146.32	37013.88	8371.08	992518.31
R1WTRESPB	17705	31749.88	37602.62	9378.35	1032705.25
R2WTRESPB	18262	31028.66	39905.76	7080.48	1029979.63
S1WTRESPB	14889	30533.83	36902.70	9426.16	1032705.25
S2WTRESPB	14531	29708.36	37912.78	8447.57	1024603.50
R2WTRESPL	15637	35378.72	44837.06	6353.26	1775930.13
S2WTRESPL	12351	34019.27	44761.37	9872.74	1775930.13
R1WTRESPBIOA	13974	38484.63	62420.09	10358.35	3332315.50

S1WTRESPBIOA	11873	37206.80	61101.45	10358.35	3332315.50
R1WTRESPBIOB	13974	38944.77	63790.20	10408.85	3378585.75
S1WTRESPBIOB	11873	37699.63	62301.05	10428.39	3378585.75

How Constructed:

The individual level weights are taken directly from the weights file.

RwWTRESP is the individual level analysis weight without the non-response adjustment.

RwWTRESPA is the individual weight with the household non-response adjustment.

RwWTRESPB is the individual weight with the household and individual non-response adjustment.

RwWTRESPL is the individual longitudinal weight.

RwWTRESPBIOA is the biomarker weight with household non-response adjustment. RwWTRESPBIOB is the biomarker weight with household and individual non-response adjustment.

RwWTRESP, RwWTRESPA, RwWTRESPB, RwWTRESPL, RwWTRESPBIOA, and RwWTRESPBIOB are set to plain missing (.) if the respondent did not respond at a particular interview.

SwWTRESP, SwWTRESPA, SwWTRESPB, SwWTRESPL, SwWTRESPBIOA, and SwWTRESPBIOB indicates the current wave's spouse's weights. They are taken from the spouse's values to RwWTRESP, RwWTRESPA, RwWTRESPB, RwWTRESPL, RwWTRESPBIOA, and RwWTRESPBIOB, respectively. CHARLS also asked spouse's birth month and birth day. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used. They are set to plain missing (.) if the respondent did not respond at a particular interview.

Cross Wave Differences in CHARLS

Biomarker weights are not available in the wave 2.

Differences with the RAND HRS

The RAND HRS does not provide the individual level longitudinal weight, biomarker weights, as well as the weights with household or individual non-response adjustment.

CHARLS Variables Used:

```
Wave 1:
    BIO_WEIGHT1    biomarker weight with household non-response adjustment
    BIO_WEIGHT2    biomarker weight with household and individual non-respo
    IND_WEIGHT     individual weight without non-response adjustment
    IND_WEIGHT_AD1 individual weight with household non-response adjustment
    IND_WEIGHT_AD2 individual weight with household and individual non-resp
Wave 2:
    INDV_L_WEIGHT  individual longitudinal weight
    INDV_WEIGHT    cross-section individual weight without nonresponse adju
    INDV_WEIGHT_AD cross-section individual weight with household nonrespon
    INDV_WEIGHT_AD cross-section individual weight with household and indiv
```

Number of Household Respondents

```
Wave Variable      Label                                                Type

  1  H1HHRESP       h1hhresp:w1 # respondents in household               Cont
  2  H2HHRESP       h2hhresp:w2 # respondents in household               Cont
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev      Minimum      Maximum

H1HHRESP        17705       1.84        0.36         1.00         2.00
H2HHRESP        18605       1.80        0.40         1.00         2.00
```

How Constructed:

```
HwHHRESP is the number of individuals in the house who responded at each wave. It
counts the number of respondents sharing the same household id. HwHHRESP is set to
plain missing (.) for respondents who did not respond to the current wave.
```

Cross Wave Differences in CHARLS

```
No differences known.
```

Differences with the RAND HRS

```
No differences known.
```

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
    ID             Individual ID
Wave 2:
    HOUSEHOLDID    household id
    ID             individual id
```

Whether Coupled Household

```
Wave Variable       Label                                                      Type

  1  H1CPL          h1cpl:w1 whether coupled                                   Categ
  2  H2CPL          h2cpl:w2 whether coupled                                   Categ
```

Descriptive Statistics

```
Variable        N        Mean       Std Dev     Minimum      Maximum

H1CPL         17705      0.84        0.36        0.00         1.00
H2CPL         18605      0.80        0.40        0.00         1.00
```

Categorical Variable Codes

```
Value--------------------------------|       H1CPL        H2CPL
0.not coupled                        |        2797         3769
1.coupled                            |       14908        14836
```

How Constructed:

HwCPL indicates whether this household is treated as a couple household or not.
Households in CHARLS can consist of a single respondent or a couple. HwCPL is set to
one if there is a couple in the household, i.e., two respondents are married or
partnered. Otherwise HwCPL is set to zero if there is a single respondent in the
household.

HwCPL is set to plain missing (.) for respondents who did not respond to the current
wave.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    HOUSEHOLDID    Household ID
Wave 2:
    HOUSEHOLDID    household id
```

```
┌─────────────────────────────────────────────────────────────────────────────────────┐
│                               Interview Dates                                         │
└─────────────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                      Type

  1  R1IWY         r1iwy:w1 r year of interview                               Cont
  2  R2IWY         r2iwy:w2 r year of interview                               Cont

  1  S1IWY         s1iwy:w1 s year of interview                               Cont
  2  S2IWY         s2iwy:w2 s year of interview                               Cont

  1  R1IWM         r1iwm:w1 r month of interview                              Cont
  2  R2IWM         r2iwm:w2 r month of interview                              Cont

  1  S1IWM         s1iwm:w1 s month of interview                              Cont
  2  S2IWM         s2iwm:w2 s month of interview                              Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev      Minimum       Maximum

R1IWY         17705      2011.02         0.13       2011.00       2012.00
R2IWY         18605      2013.00         0.01       2013.00       2014.00

S1IWY         14889      2011.02         0.13       2011.00       2012.00
S2IWY         14819      2013.00         0.01       2013.00       2014.00

R1IWM         17705         7.58         1.34          1.00         12.00
R2IWM         18605         7.73         0.92          1.00         12.00

S1IWM         14889         7.57         1.30          1.00         12.00
S2IWM         14819         7.72         0.91          1.00         11.00
```

How Constructed:

RwIWY and RwIWM indicate the individual's interview year and month. If the respondent
is not answer in the specific wave then (.) plain missing is assigned.

SwIWY and SwIWM indicate the current wave's spouse's individual interview year and
month. They are taken from RwIWY and RwIWM of the respondent's spouse, respectively.
If the respondent is not designated as coupled in the current wave and unmarried, a
special missing value of .u is used. If the respondent is not designated as coupled in
the current wave but reports being married a special missing value of .v is use

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

No difference known.

CHARLS Variables Used:

```
Wave 1:
    IMONTH         interview month
    IYEAR          interview year
Wave 2:
    IMONTH         interview month
    IYEAR          interview year
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                       Birth date: Month, and Year                             │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                 Type

  1  RABYEAR       rabyear:r birth year                                  Cont

  1  S1BYEAR       s1byear:w1 s birth year                               Cont
  2  S2BYEAR       s2byear:w2 s birth year                               Cont

  1  RABMONTH      rabmonth:r birth month                                Cont

  1  S1BMONTH      s1bmonth:w1 s birth month                             Cont
  2  S2BMONTH      s2bmonth:w2 s birth month                             Cont

  1  RABDAY        rabday:r birth day                                    Cont

  1  S1BDAY        s1bday:w1 s birth day                                 Cont
  2  S2BDAY        s2bday:w2 s birth day                                 Cont

  1  RAFBDATE      rabyear:r flag birth year                             Categ

  1  S1FBDATE      s1fbdate:w1 s flag birth date                         Categ
  2  S2FBDATE      s2fbdate:w2 s flag birth date                         Categ
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RABYEAR	21107	1952.87	10.44	1910.00	1997.00
S1BYEAR	14883	1953.24	9.28	1918.00	1989.00
S2BYEAR	14812	1954.33	9.39	1914.00	1997.00
RABMONTH	20484	6.64	3.50	1.00	12.00
S1BMONTH	14536	6.64	3.51	1.00	12.00
S2BMONTH	14450	6.64	3.51	1.00	12.00
RABDAY	19964	14.89	8.47	1.00	31.00
S1BDAY	14194	14.89	8.47	1.00	31.00
S2BDAY	14113	14.87	8.47	1.00	31.00
RAFBDATE	21131	0.05	0.21	0.00	1.00
S1FBDATE	14889	0.05	0.23	0.00	1.00
S2FBDATE	14819	0.05	0.22	0.00	1.00

Categorical Variable Codes

```
Value---------------------------------|   RAFBDATE
0.no dispute                          |     20143
1.dispute, last report used           |       988

Value---------------------------------|   S1FBDATE    S2FBDATE
.u:unmar                              |      2278        2426
.v:sp nr                              |       538        1360
0.no dispute                          |     14077       14049
1.dispute, last report used           |       812         770
```

How Constructed:

RABYEAR is the respondent's reported birth year. RABMONTH is the respondent's reported birth month. RABDAY is the respondent's reported birth date. RABYEAR, RABMONTH and RABDAY are respondent's birth year, month and day. If the respondent does not provide birth year CHARLS also ask respondents their age. RABYEAR uses the reported age to fill the missing on birth year. RABYEAR, RABMONTH and RABDAY are set to special missing (.m) when birth information is reported as "missing."

Starting in wave 2 CHARLS asks respondents to confirm their previous report of birth date. If respondent indicates the previous wave information is incorrect, CHARLS asks the respondent for the correct birth year, month and date. RABYEAR, RABMONTH and RABDAY always use the corrected birth date information.

RAFBDATE is a flag variable which indicates whether RABYEAR, RABMONTH and RABDAY were initially reported using birthdate values which were later reported to be incorrect by the respondent. A value of 0 indicates the respondent did not dispute their first report of birth date. A value of 1 indicates that the respondent reported their initial report of birthdate was incorrect.

SwBYEAR, SwBMONTH, SwBDAY and SwFBDATE indicates the current wave's spouse's birth year, month and date. They are taken from the spouse's values to RABYEAR, RABMONTH, RABDAY and RAFBDATE, respectively. CHARLS also asked spouse's birth month and birth day. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used. They are set to plain missing (.) if the respondent did not respond at a particular interview.

Note: There are few respondents that report their birth of year in very recent time (e.g.1997). These reports are considered valid as they are the spouses of age eligible respondents.

Cross Wave Differences in CHARLS

Starting in wave 2 CHARLS asks respondents to confirm their previous report of birth date. If respondent indicates the previous wave information is incorrect, CHARLS asks the respondent for the correct birth year, month and date. These cases are flagged with RAFBDATE.

Differences with the RAND HRS

Unlike HRS, CHARLS does not have a tracker file. We used the reported information from the core surveys to determine the best approximation birth year, month and day.

CHARLS Variables Used:

```
Wave 1:
    BA002_1        Birth Year
    BA002_2        Birth Month
    BA002_3        Birth Day
Wave 2:
    BA001_W2_1     we record your birth time is [birth time], is it right?
    BA002_1        when were you born:year
    BA002_2        when were you born:month
    BA002_3        when were you born:day
```

Age at interview (in months and years)

```
Wave Variable      Label                                                  Type

  1  R1AGEY        r0agey:w1 r age in years                               Cont
  2  R2AGEY        r1agey:w2 r age in years                               Cont

  1  S1AGEY        s1agey:w1 s age in years                               Cont
  2  S2AGEY        s2agey:w2 s age in years                               Cont
```

Descriptive Statistics

```
Variable          N          Mean      Std Dev     Minimum     Maximum

R1AGEY         17682        58.69        10.15       21.00      101.00
R2AGEY         18590        59.54        10.25       16.00      101.00

S1AGEY         14871        57.43         9.29       21.00      100.00
S2AGEY         14812        58.29         9.39       16.00       99.00
```

How Constructed:

```
RwAGEY is the respondent's age in years at the time of the current wave's interview.
Respondent's age is calculated by respondent's birth year and month minus the
interview year and month; furthermore, self-reported age is used if there is a missing
value of calculated age. In the case that the respondent's birth month is missing
RwAGEY is calculated assuming that the respondent's birth month is month 6 (June).
RwAGEY is set to plain missing (.) for respondents who did not respond to any waves.

SwAGEY is the current wave's spouse's age in years at the time of the current wave's
interview. SwAGEY is taken from the spouse's value to RwAGEY. If the respondent is not
designated as coupled in the current wave and assumed to be single a special missing
value of .u is used. If the respondent is not designated as coupled in the current
wave but reports being married a special missing value of .v is used.
```

Cross Wave Differences in CHARLS

```
No differences known.
```

Differences with the RAND HRS

```
Unlike the HRS, the CHARLS has two ways for respondents to report their age, either
when the respondent was born or how old the respondent is at the current interview.
```

CHARLS Variables Used:

```
Wave 1:
    BA002_1       Birth Year
    BA002_2       Birth Month
    BA004         Age
    IMONTH        interview month
    IYEAR         interview year
Wave 2:
    BA002_1       when were you born:year
    BA002_2       when were you born:month
    BA004         your age
    IMONTH        interview month
    IYEAR         interview year
```

```
                                    Gender
```

Wave	Variable	Label	Type
1	RAGENDER	ragender:r gender	Categ
1	S1GENDER	s1gender:w1 s gender	Categ
2	S2GENDER	s2gender:w2 s gender	Categ
1	RAFGENDR	rafgendr: flag if problem with r gender	Categ
1	S1FGENDR	s1fgendr:w1 flag if problem with s gender	Categ
2	S2FGENDR	s2fgendr:w2 flag if problem with s gender	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
RAGENDER	21126	1.52	0.50	1.00	2.00
S1GENDER	14887	1.50	0.50	1.00	2.00
S2GENDER	14816	1.50	0.50	1.00	2.00
RAFGENDR	21123	0.01	0.07	0.00	1.00
S1FGENDR	14887	0.01	0.08	0.00	1.00
S2FGENDR	14814	0.01	0.08	0.00	1.00

Categorical Variable Codes

Value	RAGENDER
.m:missing	4
.r:refuse	1
1.male	10148
2.female	10978

Value	S1GENDER	S2GENDER
.m:missing	1	3
.r:refuse	1	
.u:unmar	2278	2426
.v:sp nr	538	1360
1.male	7439	7402
2.female	7448	7414

Value	RAFGENDR
0.no gender problem	21006
1.gender prob, used health gender	117

Value	S1FGENDR	S2FGENDR
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no gender problem	14780	14716
1.gender prob, used health gender	107	98

How Constructed:

RAGENDER indicates the respondent's gender. The variable is set to 1 for male and 2 for female. RAGENDER is set to special missing (.m) when gender is reported as "missing."

Some respondents report inconsistent gender information between waves. In the case
that gender is not consistent between waves or that gender in the Demographic module
is missing, gender as separately determined for the Health module is used to determine
RAGENDER. These cases are flagged with RAFGENDR.

RAFGENDR is a flag variable which indicates if the respondent's report of their gender
changed between waves. A value of 0 indicates that the respondent's gender was
consistent between waves. A value of 1 indicates the respondent's report of gender
changed between waves and gender as separately determined for the Health module was
used to determine RAGENDER.

SwGENDER and SwFGENDR indicate the current wave's spouse's gender and gender flag,
respectively. They are taken from the spouse's values to RAGENDER and RAFGENDR. If the
respondent is not designated as coupled in the current wave and assumed to be single a
special missing value of .u is used. If the respondent is not designated as coupled in
the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Unlike HRS, CHARLS does not have a tracker file. We used the reported information from
core survey to determine the best approximation of the respondent's gender.

CHARLS Variables Used:

```
Wave 1:
    RGENDER         GENDER
Wave 2:
    BA000_W2_3      interviewer record r¡¯s gender.
    XRGENDER        gender of r
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                     Education:  Categorical Summary                           │
└─────────────────────────────────────────────────────────────────────────────┘


Wave Variable       Label                                                    Type

  1  RAEDUC_C        raeduc_c:r education (categ)                             Categ

  1  S1EDUC_C        s1educ_c:w1 s education (categ)                          Categ
  2  S2EDUC_C        s2educ_c:w2 s education (categ)                          Categ

  1  RAEDISCED       raedisced:r education isced                              Categ

  1  S1EDISCED       s1edisced:w1 s education isced                           Categ
  2  S2EDISCED       s2edisced:w2 s education isced                           Categ
```

Descriptive Statistics

```
Variable          N        Mean       Std Dev     Minimum      Maximum

RAEDUC_C        21131      2.98        2.02         1.00        10.00

S1EDUC_C        14852      3.48        1.97         1.00        10.00
S2EDUC_C        14819      3.03        1.99         1.00        10.00

RAEDISCED       21131      1.63        0.85         1.00         5.00

S1EDISCED       14852      1.78        0.88         1.00         5.00
S2EDISCED       14819      1.63        0.83         1.00         5.00
```

Categorical Variable Codes

```
Value-------------------------------|    RAEDUC_C
1.no formal education illiterate    |       8281
2.did not finish primary school but capa|  3056
3.sishu                             |         84
4.elementary school                 |       3812
5.middle school                     |       3652
6.high school                       |       1388
7.vocational school                 |        429
8.two/three year college/associate degre| 280
9.four year college/bachelor's degree  |    143
10.master's degree                  |          6

Value-------------------------------|    S1EDUC_C    S2EDUC_C
.d:dk                               |         18
.m:missing                          |         18
.r:refuse                           |          1
.u:unmar                            |       2278        2426
.v:sp nr                            |        538        1360
1.no formal education illiterate    |       3638        5539
2.did not finish primary school but capa|  2607        2187
3.sishu                             |         55          47
4.elementary school                 |       3317        2774
5.middle school                     |       3290        2745
6.high school                       |       1217         992
7.vocational school                 |        373         287
8.two/three year college/associate degre| 235          173
9.four year college/bachelor's degree  |    114          73
10.master's degree                  |          6           2

Value-------------------------------|    RAEDISCED
```

```
1.primary education                  |      11421
2.lower secondary education          |       7464
3.upper secondary education          |       1388
4.post-secondary non tertiary education |      429
5.first stage of tertiary education  |        429

Value--------------------------------|    S1EDISCED    S2EDISCED
.d:dk                                |         18
.m:missing                           |         18
.r:refuse                            |          1
.u:unmar                             |       2278         2426
.v:sp nr                             |        538         1360
1.primary education                  |       6300         7773
2.lower secondary education          |       6607         5519
3.upper secondary education          |       1217          992
4.post-secondary non tertiary education |     373          287
5.first stage of tertiary education  |        355          248
```

How Constructed:

RAEDUC_C identifies the highest level of education that respondents have attained. To
account for the high prevalence of lower level of education, CHARLS provides
additional lower education categories. RAEDUC_C is defined using the following codes:
1.No Formal Education (Illiterate), 2.Did Not Finish Primary School but can Read,
3.Sishu (Private Tutoring), 4.Elementary School; 5.Middle School, 6.High School,
7.Vocational School, 8.Two/three-year college, 9.College Grad and 10.Master's degree.
Don't know, missing, or refused values of RAEDUC_C are assigned special missing codes
.d, .m, .r, respectively.

In order to provide a harmonized measure of education across all countries, RAEDISCED
categorizes education achievements using the International Standard Classification of
Education ISCED codes. RAEDISCED identifies the latest non-missing report of education
level by ISCED code.

RAEDISCED identifies the latest non-missing report of education level by ISCED code
and was mapped to ISCED codes based on the advice in Classifying Educational Programs
(OECD, 1999). Respondents who reported that they did not complete elementary or middle
school are assigned ISCED code 1 under the assumption that respondents are likely to
have at least completed primary education. For more information on ISCED codes see
ISCED (United Nations Educational Scientific and Cultural Organizations, 1997).
RAEDISCED is set to special missing (.m) when information is reported as "missing."

SwEDUC_C and SwEDISCED indicate the current wave's spouse's category of education.
They are taken from the spouse's value to RAEDUC_C and RAEDISCED. If the respondent is
not designated as coupled in the current wave and assumed to be single a special
missing value of .u is used. If the respondent is not designated as coupled in the
current wave but reports being married a special missing value of .v is used. SwEDUC_C
and SwEDISCED are set to plain missing (.) for respondents who did not respond to this
waves.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

To account for the high prevalence of lower level of education, RAEDUC_C includes
additional lower education categories from RAEDUC in the RAND HRS.

CHARLS Variables Used:

Wave 1:

```
    BD001              HIGHEST LEVEL OF SCHOOL attained
Wave 2:
    BD001              the highest level of education attained now
    BD001_W2_1         is the record of highest education level right
    BD001_W2_3         what's the highest level of education in last wave
    BD001_W2_4         have your highest level of education changed? if so, wha
```

Current Marital Status: With partnership

Wave	Variable	Label	Type
1	R1MSTAT	r1mstat:w1 r marital status w/partners, filled	Categ
2	R2MSTAT	r2mstat:w2 r marital status w/partners, filled	Categ
1	S1MSTAT	s1mstat:w1 s marital status w/partners, filled	Categ
2	S2MSTAT	s2mstat:w2 s marital status w/partners, filled	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MSTAT	17675	1.88	1.98	1.00	8.00
R2MSTAT	18585	1.88	2.00	1.00	8.00
S1MSTAT	14870	1.16	0.54	1.00	3.00
S2MSTAT	14802	1.11	0.45	1.00	3.00

Categorical Variable Codes

Value	R1MSTAT	R2MSTAT
.m:missing	30	20
1.married	14170	15069
3.partnered	1257	1110
4.separated	77	51
5.divorced	146	148
7.widowed	1866	2051
8.never married	159	156

Value	S1MSTAT	S2MSTAT
.m:missing	19	17
.u:unmar	2278	2426
.v:sp nr	538	1360
1.married	13704	13997
3.partnered	1166	805

How Constructed:

RwMSTAT is created using reported marital status and implied partnership status. Partnership status is assigned to respondents who report being currently unmarried but who are coupled with another respondent through CHARLS's couple id.

RwMSTAT indicates a respondent's marital status in the current wave taking into account implied partnership. A code of 1 indicates that the respondent is married. A code of 3 indicates that the respondent is partnered, either through self-reported or implied partnership. A code of 4 indicates that the respondent is separated. A code of 5 indicates that the respondent is divorced. A code of 7 indicates that the respondent is widowed. A code of 8 indicates that the respondent has never been married. When respondents don't know or refuse to answer, RwMSTAT is assigned special missing values .d or .r, respectively. RwMSTAT is set to plain missing (.) for respondents who did not respond to the current wave.

SwMSTAT indicates the current wave's spouse's marital status. It is taken from the spouse's values to RwMSTAT. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

Starting wave 2, CHARLS introduces a new category "Cohabitated" and it's coded as "3.Partnership".

Differences with the RAND HRS

No differences known

CHARLS Variables Used:

```
Wave 1:
    BE001         marital status
    HOUSEHOLDID   Household ID
    ID            Individual ID
Wave 2:
    BE001         martial status
    HOUSEHOLDID   household id
    ID            individual id
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                 Current Marital Status: Without Partnership                   │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                               Type

  1  R1MSTATH      r1mstath:w1 r marital status                        Categ
  2  R2MSTATH      r2mstath:w2 r marital status                        Categ

  1  S1MSTATH      s1mstath:w1 s marital status                        Categ
  2  S2MSTATH      s2mstath:w2 s marital status                        Categ
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev     Minimum     Maximum

R1MSTATH       17675        1.82        1.96        1.00        8.00
R2MSTATH       18585        1.83        1.98        1.00        8.00

S1MSTATH       13704        1.01        0.11        1.00        7.00
S2MSTATH       14008        1.02        0.17        1.00        7.00
```

Categorical Variable Codes

```
Value-----------------------------------|    R1MSTATH    R2MSTATH
.m:missing                              |          30          20
1.married                               |       14170       15069
2.married, sp abs                       |        1247        1067
3.partnered                             |                      16
4.separated                             |          83          67
5.divorced                              |         147         155
7.widowed                               |        1869        2055
8.never married                         |         159         156

Value-----------------------------------|    S1MSTATH    S2MSTATH
.m:missing                              |          19          11
.u:unmar                                |        3535        3520
.v:sp nr                                |         447        1066
1.married                               |       13588       13777
2.married, sp abs                       |         114         215
3.partnered                             |                      11
4.separated                             |           1           1
5.divorced                              |                       1
7.widowed                               |           1           3
```

How Constructed:

RwMSTATH is created using reported marital status. While RwMSTAT, described above, specifically recode reported marital status with implied partnership, RwMSTATH provides the reported marital status in the current wave. A code of 1 indicates the respondent reports being married. A code of 2 indicates the respondent reports being married but not living with spouse temporarily. A code of 3 indicates that the respondent is partnered, either through self-reported or implied partnership. A code of 4 indicates the respondent reports being separated. A code of 5 indicates the respondent reports being divorced. A code of 7 indicates the respondent reports being widowed. A code of 8 indicates the respondent reports he/she has never been married. Don't know, refused, or other missing responses of RwMSTATH are assigned special missing codes .d, .r, .m respectively. RwMSTATH is set to plain missing (.) for respondents who did not respond to the current wave.

SwMSTATH indicates the current wave's spouse's marital status without partnership. It is taken from the spouse's value to RwMSTATH. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

Starting wave 2, CHARLS introduces a new category "Cohabitated" and it's coded as "3.Partnership".

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    BE001           marital status
Wave 2:
    BE001           martial status
```

```
                        Number of Marriage
```

Wave	Variable	Label	Type
1	R1MRCT	r1mrct:w1 r # marriages	Cont
2	R2MRCT	r2mrct:w2 r # marriages	Cont
1	S1MRCT	s1mrct:w1 s # marriages	Cont
2	S2MRCT	s2mrct:w2 s # marriages	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MRCT	17667	1.04	0.25	0.00	6.00
R2MRCT	18569	1.24	0.50	0.00	5.00
S1MRCT	14863	1.04	0.22	0.00	6.00
S2MRCT	14793	1.26	0.49	0.00	5.00

How Constructed:

RwMRCT contains the number of times the respondent reported having been married.
Don't know, missing, or refused values of RwMRCT are assigned special missing codes
.d, .m, .r, respectively. RwMRCT is set to plain missing (.) for respondents who did
not respond to the current wave.

SwMRCT is the number of marriages of the current wave's spouse. It is taken from the
spouse's responses to RwMRCT. If the respondent is not designated as coupled in the
current wave and assumed to be single a special missing value of .u is used. If the
respondent is not designated as coupled in the current wave but reports being married
a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    BE001        marital status
    BE003        HOW MANY TIMES HAVE YOU BEEN MARRIED
Wave 2:
    BE001        martial status
    BE003        how many times have you been married
    BE003_W2_1   how many times have you been married since last intervie
    XRTYPE       r interview type
```

Length of Current Marriage

```
Wave Variable      Label                                              Type

   1  R1MCURLN     r1mcurln:w1 r length of current marriage           Cont
   2  R2MCURLN     r2mcurln:w2 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
```

Descriptive Statistics

```
Variable        N         Mean       Std Dev     Minimum      Maximum

R1MCURLN      15316       34.27        10.61        1.00        79.00
R2MCURLN      15777       35.15        10.79        0.00        79.00

S1MCURLN      14700       34.33        10.59        1.00        79.00
S2MCURLN      14248       35.25        10.60        0.00        79.00
```

How Constructed:

RwMCURLN records the length of the respondent's current marriage. RwMCURLN is calculated using the year the year the respondent reported getting married and the year of the current interview. Starting in Wave 2 if the respondent reports not starting any new marriages since the last interview RwMCURLN is derived by adding the number of years between the last interview and the current interview to the length of currently marriage determined for the previous wave. If the respondent is not currently married special missing .u is assigned. Don't know, missing, or refused values of RwMCURLN are assigned special missing codes .d, .m, .r, respectively. RwMCURLN is set to plain missing (.) for respondents who did not respond to the current wave.

SwMCURLN measures the length of the current wave's spouse's current marriage. It is taken from the spouse's value to RwMCURLN. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Starting in Wave 2 if the respondent reports not starting any new marriages since the last interview, they are the respondent got married is not re-asked.

CHARLS Variables Used:

```
Wave 1:
   BE001          marital status
   BE004_1        Umarried
   BE009_1        When was your most recent marriage year
Wave 2:
   BE001          martial status
   BE003          how many times have you been married
   BE003_W2_1     how many times have you been married since last intervie
   BE004_1        when did you get married: year
   BE009_1        when was your most recent marriage: year
```

```
IMONTH          interview month
IYEAR           interview year
XRTYPE          r interview type
```

```
                               Place of Birth
```

```
Wave Variable      Label                                             Type

  1  RABPLACE_C    rabplace_c:r birth place                          Categ

  1  S1BPLACE_C    s1bplace_c:w1 s birth place                       Categ
  2  S2BPLACE_C    s2bplace_c:w2 s birth place                       Categ
```

Descriptive Statistics

```
Variable          N       Mean      Std Dev     Minimum     Maximum

RABPLACE_C      21081      1.60       0.63        1.00        4.00

S1BPLACE_C      14855      1.56       0.60        1.00        4.00
S2BPLACE_C      14793      1.56       0.62        1.00        4.00
```

Categorical Variable Codes

```
Value-------------------------------| RABPLACE_C
.d:dk                               |         4
.m:missing                          |        44
.r:refuse                           |         2
1.interview place                   |     10169
2.another village/neighborhood in the sa|  9274
3.another village/neighborhood in other |  1633
4.abroad                            |         5

Value-------------------------------| S1BPLACE_C   S2BPLACE_C
.d:dk                               |        17            1
.m:missing                          |        15           25
.r:refuse                           |         2
.u:unmar                            |      2278         2426
.v:sp nr                            |       538         1360
1.interview place                   |      7401         7536
2.another village/neighborhood in the sa|   6610         6213
3.another village/neighborhood in other |    840         1040
4.abroad                            |         4            4
```

How Constructed:

RABPLACE_C indicates the respondent's birthplace. A code of 1 indicates the respondent
was born in the interview place. A code 2 indicates the respondent was born in another
village/neighborhood, same or different county/city but same province as the interview
place. A code of 3 indicates the respondent was born in another province than
interview place. A code of 4 indicates the respondent was born abroad.

Don't know, missing, or refused responses to RABPLACE_C are assigned special missing
codes .d, .m, .r, respectively.

SwBPLACE_C is the place of birth of the current wave's spouse. It is taken from the
spouse's value to RABPLACE_C. If the respondent is not designated as coupled in the
current wave and assumed to be single a special missing value of .u is used. If the
respondent is not designated as coupled in the current wave but reports being married
a special missing value of .v is used. SwBPLACE_C is set to plain missing (.) for
respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Unlike the HRS, CHALS birthplace's question contains 4 codes. A code of 1 indicates the respondent was born in the interview place and a code 2 indicates the respondent was born in another village/neighborhood, same or different county/city but same province as the interview place. A code of 3 indicates the respondent was born in another province than interview place. A code of 4 indicates the respondent was born abroad.

CHARLS Variables Used:

```
Wave 1:
    BB001          Birth Place
Wave 2:
    BB001          where were you born
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                              Hukou Region                                      │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                   Type

  1  R1HUKOU       r1hukou:w1 r hukou status                               Categ
  2  R2HUKOU       r2hukou:w2 r hukou status                               Categ

  1  S1HUKOU       s1hukou:w1 s hukou status                               Categ
  2  S2HUKOU       s2hukou:w2 s hukou status                               Categ
```

Descriptive Statistics

```
Variable          N          Mean      Std Dev      Minimum      Maximum

R1HUKOU         17673        1.23        0.44         1.00         4.00
R2HUKOU         18551        1.25        0.46         1.00         4.00

S1HUKOU         14867        1.22        0.44         1.00         4.00
S2HUKOU         14781        1.24        0.45         1.00         4.00
```

Categorical Variable Codes

```
Value--------------------------------|      R1HUKOU       R2HUKOU
.d:dk                                |          5
.m:missing                           |         25            54
.r:refuse                            |          2
1.agricultual hukou                  |      13694         14189
2.non-agricultural hukou             |       3862          4145
3.unified residence hukou            |        107           208
4.do not have hukou                  |         10             9

Value--------------------------------|      S1HUKOU       S2HUKOU
.d:dk                                |          3
.m:missing                           |         17            38
.r:refuse                            |          2
.u:unmar                             |       2278          2426
.v:sp nr                             |        538          1360
1.agricultual hukou                  |      11640         11481
2.non-agricultural hukou             |       3127          3130
3.unified residence hukou            |         90           164
4.do not have hukou                  |         10             6
```

How Constructed:

RwHUKOU indicates the respondent's hukou place and is a special identifier in China.
Individuals who live in urban district may have a rural hukou and vice versa. Hukou
status affects many other things like buying a house, buying a car, children's school
enrollment and other welfare. A code of 1 indicates the respondent is agricultural
hukou. A code of 2 indicates the respondent is non-agricultural hukou. A code of 3
indicates the respondent is unified residence hukou. Special missing value .n is
assigned if the respondent doesn't have hukou. Don't know, missing, or refused
responses to RwHUKOU are assigned special missing codes .d, .m, .r, respectively.
RwHUKOU is set to plain missing (.) for respondents who did not respond to this wave.

SwHUKOU is the hukou status of the current wave's spouse. It is taken from the
spouse's value to RwHUKOU. If the respondent is not designated as coupled in the
current wave and assumed to be single a special missing value of .u is used. If the
respondent is not designated as coupled in the current wave but reports being married
a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

This question is not asked in the HRS as it is specific to China.

CHARLS Variables Used:

```
Wave 1:
    BC001           WHAT IS YOUR CURRENT HUKOU STATUS
Wave 2:
    BC001           what is your current hukou status
```

Live in Urban or Rural

Wave	Variable	Label	Type
1	R1RURAL	r1rural:w1 r lives in rural or urban	Categ
2	R2RURAL	r2rural:w2 r lives in rural or urban	Categ
1	S1RURAL	s1rural:w1 s lives in rural or urban	Categ
2	S2RURAL	s2rural:w2 s lives in rural or urban	Categ
1	R1RURAL2	r1rural2:w1 r rural hukou	Categ
2	R2RURAL2	r2rural2:w2 r rural hukou	Categ
1	S1RURAL2	s1rural2:w1 s rural hukou	Categ
2	S2RURAL2	s2rural2:w2 s rural hukou	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1RURAL	17705	0.60	0.49	0.00	1.00
R2RURAL	18605	0.60	0.49	0.00	1.00
S1RURAL	14889	0.60	0.49	0.00	1.00
S2RURAL	14819	0.61	0.49	0.00	1.00
R1RURAL2	17663	0.22	0.42	0.00	1.00
R2RURAL2	18542	0.23	0.42	0.00	1.00
S1RURAL2	14857	0.22	0.41	0.00	1.00
S2RURAL2	14775	0.22	0.42	0.00	1.00

Categorical Variable Codes

Value	R1RURAL	R2RURAL
0.urban community	7168	7506
1.rural village	10537	11099

Value	S1RURAL	S2RURAL
.u:unmar	2278	2426
.v:sp nr	538	1360
0.urban community	5884	5764
1.rural village	9005	9055

Value	R1RURAL2	R2RURAL2
.d:dk	5	
.m:missing	25	54
.n:no hukou	10	9
.r:refuse	2	
0.urban hukou	13694	14189
1.rural hukou	3969	4353

Value	S1RURAL2	S2RURAL2
.d:dk	3	
.m:missing	17	38
.n:no hukou	10	6
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.urban hukou	11640	11481

```
1.rural hukou                          |        3217          3294
```

How Constructed:

RwRURAL indicates the respondent's living region. This variable is based on the information recorded in PSU file; that is, whether the region is rural or urban is defined by National Bureau of Statistics of the People's Republic of China. A code of 0 indicates the respondent is living in a rural region and a code of 1 indicates the respondent is living in an urban region.

RwRURAL2 identifies the respondent's living region by his/her hukou. A code of 0 indicates the respondent is having an urban hukou and a code of 1 indicates the respondent is having rural hukou.

Don't know, missing, or refused responses to RwRURAL and RwRURAL2 are assigned special missing codes .d, .m, .r, respectively. RwRURAL and RwRURAL2 are set to plain missing (.) for respondents who did not respond to this wave.

SwRURAL and SwRURAL2 are the live region of the current wave's spouse and are taken from the spouse's values to RwRURAL and RwRURAL2, respectively. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

RwRURAL2 is not available in RAND HRS as it is specific to China.

CHARLS Variables Used:

```
Wave 1:
    BC001        WHAT IS YOUR CURRENT HUKOU STATUS
    URBAN_NBS    Urban or Rural according to NBS
Wave 2:
    BC001        what is your current hukou status
    URBAN_NBS    urban or rural according to nbs
    XRTYPE       r interview type
```

Section B: Health

Self-Reported of Health

```
Wave Variable      Label                                                       Type

  1  R1SHLT        r1shlt:w1 r self-report of health                           Categ
  2  R2SHLT        r2shlt:w2 r self-report of health                           Categ

  1  S1SHLT        s1shlt:w1 s self-report of health                           Categ
  2  S2SHLT        s2shlt:w2 s self-report of health                           Categ

  1  R1SHLTF       r1shltf:w1 r timing flag of self-report health              Categ
  2  R2SHLTF       r2shltf:w2 r timing flag of self-report health              Categ

  1  S1SHLTF       s1shltf:w1 s timing flag of self-report health              Categ
  2  S2SHLTF       s2shltf:w2 s timing flag of self-report health              Categ

  1  R1SHLTA       r1shlta:w1 r self-report of health alt                      Categ
  2  R2SHLTA       r2shlta:w2 r self-report of health alt                      Categ

  1  S1SHLTA       s1shlta:w1 s self-report of health alt                      Categ
  2  S2SHLTA       s2shlta:w2 s self-report of health alt                      Categ

  1  R1SHLTAF      r1shltaf:w1 r timing flag of self-report health alt         Categ
  2  R2SHLTAF      r2shltaf:w2 r timing flag of self-report health alt         Categ

  1  S1SHLTAF      s1shltaf:w1 s timing flag of self-report health alt         Categ
  2  S2SHLTAF      s2shltaf:w2 s timing flag of self-report health alt         Categ
```

Descriptive Statistics

```
Variable         N          Mean      Std Dev      Minimum      Maximum

R1SHLT         12612        3.86        0.92         1.00         5.00
R2SHLT         17586        3.83        0.93         1.00         5.00

S1SHLT         10714        3.85        0.92         1.00         5.00
S2SHLT         14154        3.83        0.92         1.00         5.00

R1SHLTF        12621        1.31        0.46         1.00         2.00
R2SHLTF        17586        1.48        0.50         1.00         2.00

S1SHLTF        10721        1.31        0.46         1.00         2.00
S2SHLTF        14154        1.48        0.50         1.00         2.00

R1SHLTA        17559        3.03        0.92         1.00         5.00
R2SHLTA        17602        2.97        0.96         1.00         5.00

S1SHLTA        14828        3.01        0.92         1.00         5.00
S2SHLTA        14140        2.96        0.95         1.00         5.00

R1SHLTAF       17572        1.50        0.50         1.00         2.00
R2SHLTAF       17597        1.47        0.50         1.00         2.00

S1SHLTAF       14839        1.49        0.50         1.00         2.00
S2SHLTAF       14140        1.48        0.50         1.00         2.00
```

Categorical Variable Codes

```
Value--------------------------------|       R1SHLT       R2SHLT
.d:dk                                 |         8
```

```
.m:missing                           |         5084          1019
.r:refuse                            |            1
1.excellent                          |          106           241
2.very good                          |         1145          1774
3.good                               |         2274          2511
4.fair                               |         5918          9230
5.poor                               |         3169          3830

Value--------------------------------|       S1SHLT        S2SHLT
.d:dk                                |            7
.m:missing                           |         4168           665
.u:unmar                             |         2278          2426
.v:sp nr                             |          538          1360
1.excellent                          |           91           183
2.very good                          |          980          1429
3.good                               |         1958          2025
4.fair                               |         5068          7491
5.poor                               |         2617          3026

Value--------------------------------|      R1SHLTF       R2SHLTF
.m:missing                           |         5084          1019
1.beginning of module                |         8716          9118
2.end of module                      |         3905          8468

Value--------------------------------|      S1SHLTF       S2SHLTF
.m:missing                           |         4168           665
.u:unmar                             |         2278          2426
.v:sp nr                             |          538          1360
1.beginning of module                |         7349          7315
2.end of module                      |         3372          6839

Value--------------------------------|      R1SHLTA       R2SHLTA
.d:dk                                |           12
.m:missing                           |          133          1008
.r:refuse                            |            1
1.very good                          |         1099          1626
2.good                               |         3028          2529
3.fair                               |         8551          9126
4.poor                               |         4035          3399
5.very poor                          |          846           922

Value--------------------------------|      S1SHLTA       S2SHLTA
.d:dk                                |           10
.m:missing                           |           50           679
.r:refuse                            |            1
.u:unmar                             |         2278          2426
.v:sp nr                             |          538          1360
1.very good                          |          957          1308
2.good                               |         2585          2037
3.fair                               |         7275          7434
4.poor                               |         3322          2662
5.very poor                          |          689           699

Value--------------------------------|     R1SHLTAF      R2SHLTAF
.m:missing                           |          133          1008
1.beginning of module                |         8866          9281
2.end of module                      |         8706          8316

Value--------------------------------|     S1SHLTAF      S2SHLTAF
.m:missing                           |           50           679
.u:unmar                             |         2278          2426
.v:sp nr                             |          538          1360
1.beginning of module                |         7496          7414
```

```
2.end of module                           |          7343          6726
```

How Constructed:

CHARLS has two scales for respondents to self-report their current health condition; one is a scale ranging from 1 for Excellent to 5 for Poor, and the other is a scale ranging from 1 for Very Good to 5 for Very Bad. Respondents were asked their health status twice; once in the beginning of the health module and again in the end of the health module. In the beginning of the health module, respondents are randomly assigned into two groups, the first group of respondents are asked first scale in the beginning and second scale at the end. The second group of respondents are vice versa.

RwSHLT is the respondent's self-reported general health status using a scale ranging from 1 for Excellent to 5 for Poor. When respondents don't know, are missing, or refuse to answer, RwSHLT is assigned special missing values .d, .m, or .r, respectively. RwSHLT is set to plain missing (.) for respondents who did not respond to this wave.

Self-reported general health status on a scale from Excellent to Poor is asked either at the beginning or in the end of the Health module. RwSHLTF indicates this timing. Specifically, a code of 1 indicates that the respondent was asked RwHSLT at the beginning of the module. A code of 2 indicates that the respondent was asked RwSHLT at the end of the module. RwSHLTF is set to plain missing (.) for respondents who did not respond to this wave.

SwSHLT is the respondent's spouse's self-reported general health status taken directly from the spouse's RwSHLT. SwSHLTF indicates whether the respondent's spouse was asked SwSHLT at the beginning or at the end of the module and is taken directly from the spouse's RwSHLTF. In addition to the special missing codes used in RwSHLT and RwSHLTF, SwSHLT and SwSHLTF employ the special missing value .u, when the respondent did not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwSHLTA is the respondent's self-reported general health status ranging from 1 for Very Good to 5 for Very Bad. Don't know, are missing, or refuse to answer, RwSHLTA is assigned special missing values .d, .m, or .r, respectively. RwSHLTA is set to plain missing (.) for respondents who did not respond to this wave.

SwSHLTA is the respondent's spouse's self-reported general health status taken directly from the spouse's RwSHLTA. In addition to the special missing codes used in RwSHLTA, SwSHLTA employs the special missing value .u, when the respondent does not report being coupled in the current wave, and the special missing value .v, when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Self-reported general health status on a scale from Very Good to Very Bad is asked either at the beginning or in the end of the Health module. RwSHLTAF indicates this timing. A code of 1 indicates that the respondent was asked RwHSLTA at the beginning of the module. A code of 2 indicates that the respondent was asked RwHSLTA at the end of the module. RwSHLTAF is set to plain missing (.) for respondents who did not respond to this wave.

SwSHLTAF indicates whether the respondent's spouse was asked SwSHLTA at the beginning or in the end of the health module and is taken directly from the spouse's RwSHLTAF. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Due to routing error that was happened in the wave 1 questionnaire, some respondents answered the second scale of self-reported general health status twice and did not answer the first scale of self-reported general health status. In the case that respondents have two reports of the second scale of self-reported health status only the first report at the beginning of the health module is used in RwSHLTA.

Differences with the RAND HRS

Unlike the HRS, CHALRS varied when the respondent was asked RwSHLT inside the health module. R1SHLTF indicates this timing.

Unlike the HRS, CHARLS also employs a second scale of self-reported general health status. RwSHLTA is the respondent's self-reported general health status using a scale ranging from Very Good to Very Poor.

CHARLS Variables Used:

```
Wave 1:
    DA001           Self Comment of Your Health
    DA002           Self Comment of Your Health
    DA079           Self Comment of Your Health By Comparing With Others
    DA080           Self Comment of Your Health
Wave 2:
    DA001           self assessed health status (excellent)
    DA002           self assessed health status (very good)
    DA079           health status(self)
    DA080           self comment of your health
```

Whether health limits work

```
Wave Variable     Label                                                Type

  1  R1HLTHLM_C    r1hlthlm_c:w1 r health problems limit work           Categ
  2  R2HLTHLM_C    r2hlthlm_c:w2 r health problems limit work           Categ

  1  S1HLTHLM_C    s1hlthlm_c:w1 s health problems limit work           Categ
  2  S2HLTHLM_C    s2hlthlm_c:w2 s health problems limit work           Categ
```

Descriptive Statistics

```
Variable          N        Mean     Std Dev     Minimum     Maximum

R1HLTHLM_C     13127       0.40       0.49        0.00        1.00
R2HLTHLM_C     12438       0.36       0.48        0.00        1.00

S1HLTHLM_C     11521       0.38       0.49        0.00        1.00
S2HLTHLM_C     10517       0.36       0.48        0.00        1.00
```

Categorical Variable Codes

```
Value--------------------------------|  R1HLTHLM_C    R2HLTHLM_C
.d:dk                                |         175
.m:missing                           |         217           592
.r:refuse                            |           1
.w:not working                       |        4185          5579
0.no                                 |        7893          7913
1.yes                                |        5234          4525

Value--------------------------------|  S1HLTHLM_C    S2HLTHLM_C
.d:dk                                |         130
.m:missing                           |          97           356
.r:refuse                            |           1
.u:unmar                             |        2278          2426
.v:sp nr                             |         538          1360
.w:not working                       |        3140          3946
0.no                                 |        7143          6744
1.yes                                |        4378          3773
```

How Constructed:

RwHLTHLM_C indicates whether an impairment or health problem limits the kind or amount of work for the respondent.

RwHLTHLM_C is derived from a set of questions in CHARLS from employment section:

These are the questions:

     1. When was the longest time period that you stopped working? And the reason was due to health problems?

     2. For household agricultural work, how many days of work did you miss last year due to health problems?

     3. For employed non-agricultural work, how many days of work did you miss at this current job in the past year due to health problems?

        4. For self-employed non-agricultural work and unpaid family business, how many days of work did you miss in the past year due to health problems?

        5. Why did you leave the last job employer? And the reason was due to health problems?

If respondent gives a non-zero answer to any of the questions in above, we code the person as 1 indicating that an impairment or health problem limits the kind or amount of work for the respondent. A code 0 indicates the respondent reports no impairment or health problem that limits the kind or amount of work.

Don't know, refused, or other missing values for RwHLTHLM_C are assigned to special missing codes .d, .r, .m, respectively. RwHLTHLM_C is set to a special code (.w) if the respondent is not working. RwHLTHLM_C is set to plain missing (.) for respondents who did not respond to this wave.

SwHLTHLM_C is the respondent's spouse's self-reported limitation in his or her ability to work because of health problems. It was taken directly from the spouse's RwHLTHLM_C. SwHLTHLM_C employs two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the HRS, the question is asked in the health module and directly ask "Do you have any impairment or health problem that limits the kind or amount of paid work you can do?"

Unlike the HRS, the CHARLS asks respondents how many days of work does a respondent miss due to health problem in different type of works and the questions are asked in the employment section.

CHARLS Variables Used:

```
Wave 1:
    FA001       ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FA002       WORK FOR AT LEAST ONE HOUR LAST MONTH
    FA003       HAVE A JOB BUT ARE TEMPORARILY LAID-OFF, ON SICK OR OTHE
    FA005       DO YOU EXPECT TO GO BACK TO THIS JOB
    FA007       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FA008       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB010       THE REASON FOR INTERRUPTIONS
    FC013       THE NUMBER OF DAYS MISSING LAST YEAR DUE TO HEALTH PROBL
    FD030       THE NUMBER OF DAYS OF WORK YOU MISSED
    FH004       DAYS MISSING FOR HEALTH PROBLEMS
    FL020S7     THE REASON FOR LEAVING
Wave 2:
    FA001       engage in agricultural work for more than 10 days
    FA002       work for at least one hour last month
    FA003       have a job but are temporarily laid-off, on sick or othe
    FA005       do you expect to go back to this job
    FA007       ever work 3 months
    FA008       sure never work 3 months
    FB010       reason of stop
    FC013       days no work due to health problems
    FD030       days of sick leave
    FH004       days of sick leave
```

```
FL020S7          why did you leave that employer? health reasons
XF1              preload work variable
```

Activities of daily living (ADLs): Some difficulty

Wave	Variable	Label	Type
1	R1DRESSA	r1dressa:w1 r diff-dressing	Categ
2	R2DRESSA	r2dressa:w2 r diff-dressing	Categ
1	S1DRESSA	s1dressa:w1 s diff-dressing	Categ
2	S2DRESSA	s2dressa:w2 s diff-dressing	Categ
1	R1BATHA	r1batha:w1 r diff-bathing or shower	Categ
2	R2BATHA	r2batha:w2 r diff-bathing or shower	Categ
1	S1BATHA	s1batha:w1 s diff-bathing or shower	Categ
2	S2BATHA	s2batha:w2 s diff-bathing or shower	Categ
1	R1EATA	r1eata:w1 r diff-eating	Categ
2	R2EATA	r2eata:w2 r diff-eating	Categ
1	S1EATA	s1eata:w1 s diff-eating	Categ
2	S2EATA	s2eata:w2 s diff-eating	Categ
1	R1BEDA	r1beda:w1 r diff-getting in/out of bed	Categ
2	R2BEDA	r2beda:w2 r diff-getting in/out of bed	Categ
1	S1BEDA	s1beda:w1 s diff-getting in/out of bed	Categ
2	S2BEDA	s2beda:w2 s diff-getting in/out of bed	Categ
1	R1TOILTA	r1toilta:w1 r diff-using the toilet	Categ
2	R2TOILTA	r2toilta:w2 r diff-using the toilet	Categ
1	S1TOILTA	s1toilta:w1 s diff-using the toilet	Categ
2	S2TOILTA	s2toilta:w2 s diff-using the toilet	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRESSA	17357	0.05	0.22	0.00	1.00
R2DRESSA	18240	0.05	0.22	0.00	1.00
S1DRESSA	14663	0.05	0.21	0.00	1.00
S2DRESSA	14597	0.05	0.21	0.00	1.00
R1BATHA	17347	0.07	0.25	0.00	1.00
R2BATHA	18218	0.07	0.25	0.00	1.00
S1BATHA	14656	0.06	0.23	0.00	1.00
S2BATHA	14582	0.06	0.23	0.00	1.00
R1EATA	17360	0.03	0.17	0.00	1.00
R2EATA	18240	0.02	0.15	0.00	1.00
S1EATA	14664	0.03	0.16	0.00	1.00
S2EATA	14596	0.02	0.14	0.00	1.00
R1BEDA	17358	0.06	0.23	0.00	1.00
R2BEDA	18239	0.06	0.23	0.00	1.00
S1BEDA	14663	0.05	0.21	0.00	1.00
S2BEDA	14596	0.05	0.22	0.00	1.00

```
R1TOILTA        17358          0.12           0.32           0.00           1.00
R2TOILTA        18238          0.12           0.32           0.00           1.00

S1TOILTA        14662          0.11           0.31           0.00           1.00
S2TOILTA        14595          0.11           0.31           0.00           1.00
```

Categorical Variable Codes

```
Value-------------------------------|    R1DRESSA        R2DRESSA
.a:age less 50                      |        125              68
.d:dk                               |          4
.m:missing                          |        219             302
0.no                                |      16451           17299
1.yes                               |        906             941

Value-------------------------------|    S1DRESSA        S2DRESSA
.a:age less 50                      |        102              60
.d:dk                               |          1
.m:missing                          |        123             162
.u:unmar                            |       2278            2426
.v:sp nr                            |        538            1360
0.no                                |      13995           13912
1.yes                               |        668             685

Value-------------------------------|    R1BATHA         R2BATHA
.a:age less 50                      |        125              68
.d:dk                               |         13
.m:missing                          |        219             324
.r:refuse                           |          1
0.no                                |      16166           17002
1.yes                               |       1181            1216

Value-------------------------------|    S1BATHA         S2BATHA
.a:age less 50                      |        102              60
.d:dk                               |          7
.m:missing                          |        123             177
.r:refuse                           |          1
.u:unmar                            |       2278            2426
.v:sp nr                            |        538            1360
0.no                                |      13807           13747
1.yes                               |        849             835

Value-------------------------------|    R1EATA          R2EATA
.a:age less 50                      |        125              68
.d:dk                               |          1
.m:missing                          |        219             302
0.no                                |      16829           17819
1.yes                               |        531             421

Value-------------------------------|    S1EATA          S2EATA
.a:age less 50                      |        102              60
.m:missing                          |        123             163
.u:unmar                            |       2278            2426
.v:sp nr                            |        538            1360
0.no                                |      14290           14291
1.yes                               |        374             305

Value-------------------------------|    R1BEDA          R2BEDA
.a:age less 50                      |        125              68
.d:dk                               |          1
.m:missing                          |        219             303
```

```
.r:refuse                           |              2
0.no                                |          16385        17192
1.yes                               |            973         1047

Value-------------------------------|          S1BEDA         S2BEDA
.a:age less 50                      |            102            60
.m:missing                          |            123           163
.r:refuse                           |              1
.u:unmar                            |           2278          2426
.v:sp nr                            |            538          1360
0.no                                |          13968         13863
1.yes                               |            695           733

Value-------------------------------|        R1TOILTA       R2TOILTA
.a:age less 50                      |            125            68
.d:dk                               |              2
.m:missing                          |            220           304
0.no                                |          15345         16093
1.yes                               |           2013          2145

Value-------------------------------|        S1TOILTA       S2TOILTA
.a:age less 50                      |            102            60
.d:dk                               |              1
.m:missing                          |            124           164
.u:unmar                            |           2278          2426
.v:sp nr                            |            538          1360
0.no                                |          13115         13035
1.yes                               |           1547          1560
```

How Constructed:

These variables recode raw data about the difficulty with activities of daily living (ADLs). These questions are not asked to respondents who are younger than 50 and report good health as jointly defined by self-report of health, pains in the chest, disabilities, and chronic conditions. The ADLs include dressing (RwDRESSA), bathing and showering (RwBATHA), eating (RwEATA), getting in and out of bed (RwBEDA), and using the toilet (RwTOILTA).

A code of 0 indicates that the respondent did not report any problems with the activity. A code of 1 indicates that the respondent reported some difficulty with the activity or could not do the activity. Don't know, refused, or other missing responses to RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA are assigned special missing values .d, .r, .m respectively. RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA are set to special missing .a if the activities of daily living questions were skipped as to respondent who is younger than 50 and was healthy. RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA are set to plain missing (.) for respondents who did not respond to this wave.

SwDRESSA, SwBATHA, SwEATA, SwBEDA, and SwTOILTA indicate whether the respondent's spouse reported any difficulty and are taken directly from the spouse's RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA, respectively. In addition to the special missing codes used in RwDRESSA, RwBATHA, RwEATA, RwBEDA, and RwTOILTA, SwDRESSA, SwBATHA, SwEATA, SwBEDA, and SwTOILTA employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the RAND HRS the binary indicators of some difficulty with ADL's are recoded from "no", "yes" or "can't do". If respondent answers "yes" or "can't do" to the any difficulty question, these variable are set to 1 for some difficulty. If respondent answers "no", these variables are set to 0 for no difficulty.

In the CHARLS, these variables are recoded from "1.No, I don't have any difficulty", "2.I have difficulty but can still do it", "3.Yes, I have difficulty and need help" and "4.I can not do it". If respondent answers "2", "3" or "4" to any difficult question, these variables are set to 1 for some difficulty. If respondent answers "1", these variables are set to 0 for no difficulty.

Unlike the HRS, CHARLS does not include walk across the room in their ADL questions and exclude any difficulty that will last less than 3 months.

CHARLS Variables Used:

```
Wave 1:
    DB001          Have Difficulty Running or Jogging About 1 Km
    DB003          Have Difficulty Walking 100 Metres
    DB004          Have Difficulty Getting Up From A Chair After Sitting fo
    DB005          Have Difficulty Climbing Several Flights of Stairs Witho
    DB006          Have Difficulty Stooping,Kneeling,or Crouching
    DB007          Have Difficulty Reaching or Extending Your Arms Above Sh
    DB008          Have Difficulty Lifting or Carrying Weights Over 10 Jin
    DB009          Have Difficulty Picking Up A Small Coin From A Table
    DB010          Have Any Difficulty With Dressing Because of Health And
    DB011          Have Any Difficulty With Bathing or Showering
    DB012          Have Any Difficulty With Eating Because of Health And Me
    DB013          Have Any Difficulty With Getting Out of Bed and Walking
    DB014          Have Any Difficulty With Using the Toilet,Getting Up and
Wave 2:
    DB001          running or jogging about 1 km
    DB002          walkinf 1 km
    DB003          walking 100 metres
    DB004          difficulty with sitting
    DB005          difficulty with climbing
    DB006          difficulty with stooping, kneeling, crouching
    DB007          difficulty with reaching or extending
    DB008          difficulty with lifting
    DB009          difficulty with picking up
    DB010          difficulty with dressing
    DB011          difficulty with bathing or showering
    DB012          difficulty with eating
    DB013          difficulty with getting into or out of bed
    DB014          difficulty with using the toilet
```

Instrumental activities of daily living (IADLs): Some difficulty

Wave	Variable	Label	Type
1	R1MONEYA	r1moneya:w1 r diff-managing money	Categ
2	R2MONEYA	r2moneya:w2 r diff-managing money	Categ
1	S1MONEYA	s1moneya:w1 s diff-managing money	Categ
2	S2MONEYA	s2moneya:w2 s diff-managing money	Categ
1	R1MEDSA	r1medsa:w1 r diff-taking medications	Categ
2	R2MEDSA	r2medsa:w2 r diff-taking medications	Categ
1	S1MEDSA	s1medsa:w1 s diff-taking medications	Categ
2	S2MEDSA	s2medsa:w2 s diff-taking medications	Categ
1	R1SHOPA	r1shopa:w1 r diff-shopping for groceries	Categ
2	R2SHOPA	r2shopa:w2 r diff-shopping for groceries	Categ
1	S1SHOPA	s1shopa:w1 s diff-shopping for groceries	Categ
2	S2SHOPA	s2shopa:w2 r diff-shopping for groceries	Categ
1	R1MEALSA	r1mealsa:w1 r diff-preparing hot meals	Categ
2	R2MEALSA	r2mealsa:w2 r diff-preparing hot meals	Categ
1	S1MEALSA	s1mealsa:w1 s diff-preparing hot meals	Categ
2	S2MEALSA	s2mealsa:w2 s diff-preparing hot meals	Categ
1	R1HOUSEWKA	r1housewka:w1 r diff-cleaning house	Categ
2	R2HOUSEWKA	r2housewka:w2 r diff-cleaning house	Categ
1	S1HOUSEWKA	s1housewka:w1 s diff-cleaning house	Categ
2	S2HOUSEWKA	s2housewka:w2 s diff-cleaning house	Categ
2	R2PHONEA	r2phonea:w2 r diff-using a telephone	Categ
2	S2PHONEA	s2phonea:w2 s diff-using a telephone	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MONEYA	17500	0.13	0.33	0.00	1.00
R2MONEYA	18243	0.11	0.31	0.00	1.00
S1MONEYA	14792	0.12	0.32	0.00	1.00
S2MONEYA	14609	0.10	0.30	0.00	1.00
R1MEDSA	17519	0.07	0.25	0.00	1.00
R2MEDSA	18342	0.05	0.22	0.00	1.00
S1MEDSA	14811	0.06	0.24	0.00	1.00
S2MEDSA	14702	0.04	0.20	0.00	1.00
R1SHOPA	17520	0.09	0.29	0.00	1.00
R2SHOPA	18317	0.09	0.28	0.00	1.00
S1SHOPA	14810	0.08	0.27	0.00	1.00
S2SHOPA	14679	0.07	0.26	0.00	1.00
R1MEALSA	17534	0.09	0.29	0.00	1.00

```
R2MEALSA      18308        0.09         0.29         0.00         1.00

S1MEALSA      14820        0.08         0.27         0.00         1.00
S2MEALSA      14663        0.08         0.27         0.00         1.00

R1HOUSEWKA    17533        0.10         0.29         0.00         1.00
R2HOUSEWKA    18348        0.11         0.31         0.00         1.00

S1HOUSEWKA    14819        0.08         0.27         0.00         1.00
S2HOUSEWKA    14699        0.10         0.29         0.00         1.00

R2PHONEA      17423        0.13         0.34         0.00         1.00

S2PHONEA      14124        0.11         0.32         0.00         1.00
```

Categorical Variable Codes

```
Value----------------------------------|   R1MONEYA      R2MONEYA
.d:dk                                   |       48
.m:missing                              |      152           367
.r:refuse                               |        5
0.no                                    |    15252         16307
1.yes                                   |     2248          1936

Value----------------------------------|   S1MONEYA      S2MONEYA
.d:dk                                   |       37
.m:missing                              |       56           210
.r:refuse                               |        4
.u:unmar                                |     2278          2426
.v:sp nr                                |      538          1360
0.no                                    |    13084         13173
1.yes                                   |     1708          1436

Value----------------------------------|   R1MEDSA       R2MEDSA
.d:dk                                   |       30
.m:missing                              |      152           268
.r:refuse                               |        4
0.no                                    |    16296         17418
1.yes                                   |     1223           924

Value----------------------------------|   S1MEDSA       S2MEDSA
.d:dk                                   |       19
.m:missing                              |       56           117
.r:refuse                               |        3
.u:unmar                                |     2278          2426
.v:sp nr                                |      538          1360
0.no                                    |    13893         14060
1.yes                                   |      918           642

Value----------------------------------|   R1SHOPA       R2SHOPA
.d:dk                                   |       28
.m:missing                              |      152           293
.r:refuse                               |        5
0.no                                    |    15884         16749
1.yes                                   |     1636          1568

Value----------------------------------|   S1SHOPA       S2SHOPA
.d:dk                                   |       19
.m:missing                              |       56           140
.r:refuse                               |        4
.u:unmar                                |     2278          2426
.v:sp nr                                |      538          1360
```

```
0.no                                          |      13625          13584
1.yes                                         |       1185           1095

Value----------------------------------|      R1MEALSA        R2MEALSA
.d:dk                                         |         15
.m:missing                                    |        152            302
.r:refuse                                     |          4
0.no                                          |      15937          16622
1.yes                                         |       1597           1686

Value----------------------------------|      S1MEALSA        S2MEALSA
.d:dk                                         |         10
.m:missing                                    |         56            156
.r:refuse                                     |          3
.u:unmar                                      |       2278           2426
.v:sp nr                                      |        538           1360
0.no                                          |      13658          13477
1.yes                                         |       1162           1186

Value----------------------------------|      R1HOUSEWKA      R2HOUSEWKA
.d:dk                                         |         15
.m:missing                                    |        152            262
.r:refuse                                     |          5
0.no                                          |      15854          16360
1.yes                                         |       1679           1988

Value----------------------------------|      S1HOUSEWKA      S2HOUSEWKA
.d:dk                                         |         10
.m:missing                                    |         56            120
.r:refuse                                     |          4
.u:unmar                                      |       2278           2426
.v:sp nr                                      |        538           1360
0.no                                          |      13598          13288
1.yes                                         |       1221           1411

Value----------------------------------|                      R2PHONEA
.m:missing                                    |                       282
         N                                    |                       905
0.no                                          |                     15126
1.yes                                         |                      2297

Value----------------------------------|                      S2PHONEA
.m:missing                                    |                       138
         N                                    |                       557
.u:unmar                                      |                      2426
.v:sp nr                                      |                      1360
0.no                                          |                     12532
1.yes                                         |                      1592
```

How Constructed:

These variables recode raw data about the difficulty with instrumental activities of daily living (IADLs). These questions are not asked to respondents who are younger than 50 and report good health as jointly defined by self-report of health, pains in the chest, disabilities, and chronic conditions or to respondents who no difficulty jogging, getting up from chair, climbing, stooping, reaching, lifting/carrying, and picking up a coin.

The IADLs include managing money (RwMONEYA), taking medications (RwMEDSA), shopping for groceries (RwSHOPA), preparing meals (RwMEALSA), cleaning house (RwHOUSEWKA) and making phone calls (RwPHONEA). A code of 0 indicates that the respondent did not report any problems with the instrumental activity or that the respondent was not asked the question because they previously reported no difficulty jogging, getting up

from chair, climbing, stooping, reaching, lifting/carrying, and picking up a coin. A code of 1 indicates that the respondent reported some difficulty with the instrumental activity or could not do the activity. RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are set to special missing .a if the activities of daily living questions were skipped as to respondent who is younger than 50 and was healthy. Don't know, refused, or other missing responses to RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are assigned special missing values .d, .r, .m respectively. Special missing .n is assigned to RwPHONEA if a respondent has no phone. RwMEDSA, RwMONEYA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA are set to plain missing (.) for respondents who did not respond to this wave.

SwMONEYA, SwMEDSA, SwSHOPA, SwMEALSA, SwHOUSEWKA and SwPHONEA indicate whether the respondent's spouse reported any difficulty and are taken directly from the spouse's RwMONEYA, RwMEDSA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA respectively. In addition to the special missing codes used in RwMONEYA, RwMEDSA, RwSHOPA, RwMEALSA, RwHOUSEWKA and RwPHONEA, SwMONEYA, SwMEDSA, SwSHOPA, SwMEALSA, SwHOUSEWKA and SwPHONEA employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Questions related to making telephone calls are asked in wave 2 questionnaire only.

Differences with the RAND HRS

In the RAND HRS the binary indicators of some difficulty with ADL's are recoded from "no", "yes" or "can't do". If respondent answers "yes" or "can't do" to the any difficulty question, these variable are set to 1 for some difficulty. If respondent answers "no", these variables are set to 0 for no difficulty.

In the CHARLS, these variables are recoded from "1.No, I don't have any difficulty", "2.I have difficulty but can still do it", "3.Yes, I have difficulty and need help" and "4.I can not do it". If respondent answers "2", "3" or "4" to any difficult question, these variables are set to 1 for some difficulty. If respondent answers "1", these variables are set to 0 for no difficulty.

CHARLS Variables Used:

```
Wave 1:
    DB016          Have Any Difficulty With Doing Household Chores
    DB017          Have Any Difficulty With Preparing Hot Meals
    DB018          Have Any Difficulty With Shopping Because of Health And
    DB019          Have Any Difficulty With Managing Assets Because of Heal
    DB020          Have Any Difficulty With Taking Medications Because of H
Wave 2:
    DB016          difficulty with doing household chores
    DB017          difficulty with preparing hot meals
    DB018          difficulty with shopping for groceries
    DB019          difficulty with managing your money
    DB020          difficulty with taking medications
    DB035          difficulties with making phone calls?
```

Other Functional Limitations: Some difficulty

Wave	Variable	Label	Type
1	R1JOGA	r1joga:w1 r diff-running or jogging 1 km	Categ
2	R2JOGA	r2joga:w2 r diff-running or jogging 1 km	Categ
1	S1JOGA	s1joga:w1 s diff-running or jogging 1 km	Categ
2	S2JOGA	s2joga:w2 s diff-running or jogging 1 km	Categ
1	R1WALK1KMA	r1walk1kma:w1 r diff-walking 1km	Categ
2	R2WALK1KMA	r2walk1kma:w2 r diff-walking 1km	Categ
1	S1WALK1KMA	s1walk1kma:w1 s diff-walking 1km	Categ
2	S2WALK1KMA	s2walk1kma:w2 s diff-walking 1km	Categ
1	R1WALK100A	r1walk100a:w1 r diff-walking 100 m	Categ
2	R2WALK100A	r2walk100m:w2 r diff-walking 100 m	Categ
1	S1WALK100A	s1walk100a:w1 s diff-walking 100 m	Categ
2	S2WALK100A	s2walk100a:w2 s diff-walking 100 m	Categ
1	R1CHAIRA	r1chaira:w1 r diff-getting up after sitting for a long perio	Categ
2	R2CHAIRA	r2chaira:w2 r diff-getting up after sitting for a long perio	Categ
1	S1CHAIRA	s1chaira:w1 s diff-getting up after sitting for a long perio	Categ
2	S2CHAIRA	s2chaira:w2 s diff-getting up after sitting for a long perio	Categ
1	R1CLIMSA	r1climsa:w1 r diff-climbing sev flt stair	Categ
2	R2CLIMSA	r2climsa:w2 r diff-climbing sev flt stair	Categ
1	S1CLIMSA	s1climsa:w1 s diff-climbing sev flt stair	Categ
2	S2CLIMSA	s2climsa:w2 s diff-climbing sev flt stair	Categ
1	R1STOOPA	r1stoopa:w1 r diff-stoop/kneel/crouch	Categ
2	R2STOOPA	r2stoopa:w2 r diff-stoop/kneel/crouch	Categ
1	S1STOOPA	s1stoopa:w1 s diff-stoop/kneel/crouch	Categ
2	S2STOOPA	s2stoopa:w2 s diff-stoop/kneel/crouch	Categ
1	R1LIFTA	r1lifta:w1 r diff-lift/carry 10 jin	Categ
2	R2LIFTA	r2lifta:w2 r diff-lift/carry 10 jin	Categ
1	S1LIFTA	s1lifta:w1 s diff-lift/carry 10 jin	Cont
2	S2LIFTA	s2lifta:w2 s diff-lift/carry 10 jin	Cont
1	R1DIMEA	r1dimea:w1 r diff-pick up a coin	Categ
2	R2DIMEA	r2dimea:w2 r diff-pick up a coin	Categ
1	S1DIMEA	s1dimea:w1 s diff-pick up a coin	Categ
2	S2DIMEA	s2dimea:w2 s diff-pick up a coin	Categ
1	R1ARMSA	r1armsa:w1 r diff-reach/extnd arms up	Categ
2	R2ARMSA	r2armsa:w2 r diff-reach/extnd arms up	Categ
1	S1ARMSA	s1armsa:w1 s diff-reach/extnd arms up	Categ
2	S2ARMSA	s2armsa:w2 s diff-reach/extnd arms up	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum

```
R1JOGA        17239    0.52    0.50    0.00    1.00
R2JOGA        17632    0.53    0.50    0.00    1.00

S1JOGA        14561    0.49    0.50    0.00    1.00
S2JOGA        14115    0.51    0.50    0.00    1.00

R1WALK1KMA    17534    0.16    0.36    0.00    1.00
R2WALK1KMA    18187    0.17    0.37    0.00    1.00

S1WALK1KMA    14815    0.14    0.35    0.00    1.00
S2WALK1KMA    14558    0.15    0.36    0.00    1.00

R1WALK100A    16284    0.02    0.13    0.00    1.00
R2WALK100A    18213    0.07    0.25    0.00    1.00

S1WALK100A    13921    0.01    0.12    0.00    1.00
S2WALK100A    14580    0.06    0.23    0.00    1.00

R1CHAIRA      17531    0.27    0.44    0.00    1.00
R2CHAIRA      18213    0.29    0.45    0.00    1.00

S1CHAIRA      14811    0.26    0.44    0.00    1.00
S2CHAIRA      14581    0.27    0.44    0.00    1.00

R1CLIMSA      17414    0.40    0.49    0.00    1.00
R2CLIMSA      17867    0.42    0.49    0.00    1.00

S1CLIMSA      14722    0.38    0.49    0.00    1.00
S2CLIMSA      14323    0.40    0.49    0.00    1.00

R1STOOPA      17527    0.29    0.46    0.00    1.00
R2STOOPA      18190    0.33    0.47    0.00    1.00

S1STOOPA      14809    0.28    0.45    0.00    1.00
S2STOOPA      14562    0.31    0.46    0.00    1.00

R1LIFTA       17534    0.12    0.32    0.00    1.00
R2LIFTA       18184    0.14    0.35    0.00    1.00

S1LIFTA       14820    0.10    0.30    0.00    1.00
S2LIFTA       14559    0.12    0.32    0.00    1.00

R1DIMEA       17531    0.04    0.20    0.00    1.00
R2DIMEA       18190    0.04    0.20    0.00    1.00

S1DIMEA       14813    0.03    0.18    0.00    1.00
S2DIMEA       14558    0.04    0.19    0.00    1.00

R1ARMSA       17536    0.10    0.31    0.00    1.00
R2ARMSA       18186    0.11    0.31    0.00    1.00

S1ARMSA       14817    0.09    0.29    0.00    1.00
S2ARMSA       14565    0.10    0.30    0.00    1.00
```

Categorical Variable Codes

```
Value--------------------------------|    R1JOGA      R2JOGA
.a:age less 50                       |      14          76
.d:dk                                |     315
.m:missing                           |     134         902
.r:refuse                            |       3
```

```
0.no                                     |          8281         8281
1.yes                                    |          8958         9351

Value-----------------------------------|        S1JOGA       S2JOGA
.a:age less 50                           |             4           65
.d:dk                                    |           271
.m:missing                               |            50          639
.r:refuse                                |             3
.u:unmar                                 |          2278         2426
.v:sp nr                                 |           538         1360
0.no                                     |          7360         6934
1.yes                                    |          7201         7181

Value-----------------------------------|     R1WALK1KMA   R2WALK1KMA
.a:age less 50                           |            14           68
.d:dk                                    |            21
.m:missing                               |           134          355
.r:refuse                                |             2
0.no                                     |         14788        15111
1.yes                                    |          2746         3076

Value-----------------------------------|     S1WALK1KMA   S2WALK1KMA
.a:age less 50                           |             4           60
.d:dk                                    |            18
.m:missing                               |            50          201
.r:refuse                                |             2
.u:unmar                                 |          2278         2426
.v:sp nr                                 |           538         1360
0.no                                     |         12767        12364
1.yes                                    |          2048         2194

Value-----------------------------------|     R1WALK100A   R2WALK100A
.a:age less 50                           |           442           68
.d:dk                                    |             7
.m:missing                               |           970          329
.r:refuse                                |             2
0.no                                     |         16016        16994
1.yes                                    |           268         1219

Value-----------------------------------|     S1WALK100A   S2WALK100A
.a:age less 50                           |           316           60
.d:dk                                    |             5
.m:missing                               |           645          179
.r:refuse                                |             2
.u:unmar                                 |          2278         2426
.v:sp nr                                 |           538         1360
0.no                                     |         13721        13755
1.yes                                    |           200          825

Value-----------------------------------|       R1CHAIRA     R2CHAIRA
.a:age less 50                           |            14           68
.d:dk                                    |            25
.m:missing                               |           134          329
.r:refuse                                |             1
0.no                                     |         12779        13011
1.yes                                    |          4752         5202

Value-----------------------------------|       S1CHAIRA     S2CHAIRA
.a:age less 50                           |             4           60
.d:dk                                    |            23
.m:missing                               |            50          178
.r:refuse                                |             1
.u:unmar                                 |          2278         2426
```

```
.v:sp nr                           |          538          1360
0.no                               |        11004         10635
1.yes                              |         3807          3946

Value------------------------------|     R1CLIMSA      R2CLIMSA
.a:age less 50                     |           14            69
.d:dk                              |          140
.m:missing                         |          134           673
.r:refuse                          |            3
0.no                               |        10456         10388
1.yes                              |         6958          7479

Value------------------------------|     S1CLIMSA      S2CLIMSA
.a:age less 50                     |            4            60
.d:dk                              |          110
.m:missing                         |           50           436
.r:refuse                          |            3
.u:unmar                           |         2278          2426
.v:sp nr                           |          538          1360
0.no                               |         9151          8563
1.yes                              |         5571          5760

Value------------------------------|     R1STOOPA      R2STOOPA
.a:age less 50                     |           14            68
.d:dk                              |           29
.m:missing                         |          134           352
.r:refuse                          |            1
0.no                               |        12386         12213
1.yes                              |         5141          5977

Value------------------------------|     S1STOOPA      S2STOOPA
.a:age less 50                     |            4            60
.d:dk                              |           25
.m:missing                         |           50           197
.r:refuse                          |            1
.u:unmar                           |         2278          2426
.v:sp nr                           |          538          1360
0.no                               |        10692         10014
1.yes                              |         4117          4548

Value------------------------------|      R1LIFTA       R2LIFTA
.a:age less 50                     |           14            68
.d:dk                              |           20
.m:missing                         |          136           358
.r:refuse                          |            1
0.no                               |        15436         15638
1.yes                              |         2098          2546

Value------------------------------|      R1DIMEA       R2DIMEA
.a:age less 50                     |           14            68
.d:dk                              |           23
.m:missing                         |          136           352
.r:refuse                          |            1
0.no                               |        16810         17424
1.yes                              |          721           766

Value------------------------------|      S1DIMEA       S2DIMEA
.a:age less 50                     |            4            60
.d:dk                              |           20
.m:missing                         |           51           201
.r:refuse                          |            1
.u:unmar                           |         2278          2426
.v:sp nr                           |          538          1360
```

| 0.no | | 14296 | 14019 |
| 1.yes | | 517 | 539 |

Value----------------------------------		R1ARMSA	R2ARMSA
.a:age less 50		14	68
.d:dk		19	
.m:missing		134	356
.r:refuse		2	
0.no		15715	16174
1.yes		1821	2012

Value----------------------------------		S1ARMSA	S2ARMSA
.a:age less 50		4	60
.d:dk		16	
.m:missing		50	194
.r:refuse		2	
.u:unmar		2278	2426
.v:sp nr		538	1360
0.no		13412	13092
1.yes		1405	1473

How Constructed:

These variables indicate respondent has difficulty in functional limitations other
than ADLs and IADLs. These questions are not asked to respondents who are younger than
50 and report good health as jointly defined by self-report of health, pains in the
chest, disabilities, and chronic conditions. The other functional limitations include
running or jogging 1KM (RwJOGA), walking 1KM (RwWALK1KMA), walking 100 (RwWALK100A),
getting up from a chair after sitting for long periods (RwCHAIRA), climbing several
flights of stairs without resting (RwCLIMSA), stooping kneeling, or crouching
(RwSTOOPA), lifting or carrying weights over 10 jins (RwLIFTA), picking up a coin from
the table (RwDIMEA), and reaching arms above shoulder level (RwARMSA).

A code of 0 indicates that the respondent did not report any problems with the
activity. A code of 1 indicates that the respondent reported some difficulty with the
activity or could not do the activity. Don't know, refused, or other missing responses
to RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and
RwARMSA are assigned special missing values .d, .r, .m respectively. RwJOGA,
RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA
are set to special missing (.a) if the functional limitations questions were skipped
because a respondent is less than 50 years old and healthy.

Questions about activities are skipped based on the answer of difficulty in jogging a
kilometer. If a respondent reports no difficulty in jogging a kilometer, then the
questions about walking 1KM and walking 100 M are skipped and RwWALK1KMA and
RwWALK100A are set to 0 for no difficulty.

SwJOGA, SwWALK1KMA, SwWALK100A, SwCHAIRA, SwCLIMSA, SwSTOOPA, SwLIFTA, SwDIMEA, and
SwARMSA indicate whether the respondent's spouse reported any difficulty and are taken
directly from the spouse's responses to RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA,
RwCLIMSA, RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA, respectively. In addition to the
special missing codes used in RwJOGA, RwWALK1KMA, RwWALK100A, RwCHAIRA, RwCLIMSA,
RwSTOOPA, RwLIFTA, RwDIMEA, and RwARMSA, SwJOGA, SwWALK1KMA, SwWALK100A, SwCHAIRA,
SwCLIMSA, SwSTOOPA, SwLIFTA, SwDIMEA, and SwARMSA employ two other missing codes, .u
and .v. Special missing value .u is used when the respondent does not report being
coupled in the current wave. Special missing value .v is used when the respondent
reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the RAND HRS the binary indicators of some difficulty with ADL's are recoded from "no", "yes" or "can't do". If respondent answers "yes" or "can't do" to the any difficulty question, these variable are set to 1 for some difficulty. If respondent answers "no", these variables are set to 0 for no difficulty.

In the CHARLS, these variables are recoded from "1.No, I don't have any difficulty", "2.I have difficulty but can still do it", "3.Yes, I have difficulty and need help" and "4.I can not do it". If respondent answers "2", "3" or "4" to any difficult question, these variables are set to 1 for some difficulty. If respondent answers "1", these variables are set to 0 for no difficulty.

The unit in CHARLS for lifting or carrying weights is in jin, which is a traditional Chinese unit of mass that used across East and Southeast Asia. The conversion between jin to pounds is 1 to 1.1 and the conversion between jin to gram is 1 to 500.

Unlike the HRS, CHARLS asked respondent to exclude any difficulty that will last less than 3 months.

CHARLS Variables Used:

```
Wave 1:
    DA001           Self Comment of Your Health
    DA002           Self Comment of Your Health
    DA005_1_        Physical Disabilities
    DA005_2_        Brain Damage/Mental Retardation
    DA005_3_        Vision Problem
    DA005_4_        Hearing Problem
    DA005_5_        Speech Impediment
    DA007_10_       Stomach or Other Digestive Disease
    DA007_11_       Emotional,Nervous,or Psychiatric Problems
    DA007_12_       Memory-Related Disease
    DA007_13_       Arthritis or Rheumatism
    DA007_14_       Asthma
    DA007_1_        Hypertension
    DA007_2_        Dyslipidemia
    DA007_3_        Disabetes or High Blood Sugar
    DA007_4_        Cancer or Malignant Tumor
    DA007_5_        Chronic Lung Diseases
    DA007_6_        Liver Disease
    DA007_7_        Heart Problems
    DA007_8_        Stroke
    DA007_9_        Kidney Diease
    DA008_11_       Do You Konw If You Have Emotional,Nervous,or Psychiatric
    DA008_1_        Do You Konw If You Have Hypertension
    DA008_5_        Do You Konw If You Have Chronic Lung Diseases
    DB001           Have Difficulty Running or Jogging About 1 Km
    DB002           Have Difficulty Walking 1 KM
    DB003           Have Difficulty Walking 100 Metres
    DB004           Have Difficulty Getting Up From A Chair After Sitting fo
    DB005           Have Difficulty Climbing Several Flights of Stairs Witho
    DB006           Have Difficulty Stooping,Kneeling,or Crouching
    DB007           Have Difficulty Reaching or Extending Your Arms Above Sh
    DB008           Have Difficulty Lifting or Carrying Weights Over 10 Jin
    DB009           Have Difficulty Picking Up A Small Coin From A Table
Wave 2:
    DA001           self assessed health status (excellent)
    DA002           self assessed health status (very good)
    DA003           any pain on the left side of chest
    DA004           any pains when climbing stairs or
    DA005_1_        physical disabilities
```

```
DA005_2_      brain damage/mental retardation
DA005_3_      vision problem
DA005_4_      hearing problem
DA005_5_      speech impediment
DA007_10_     have been diagnosed of disease
DA007_11_     have been diagnosed of disease
DA007_12_     have been diagnosed of disease
DA007_13_     have been diagnosed of disease
DA007_14_     have been diagnosed of disease
DA007_1_      have been diagnosed of disease
DA007_2_      have been diagnosed of disease
DA007_3_      have been diagnosed of disease
DA007_4_      have been diagnosed of disease
DA007_5_      have been diagnosed of disease
DA007_6_      have been diagnosed of disease
DA007_7_      have been diagnosed of disease
DA007_8_      have been diagnosed of disease
DA007_9_      have been diagnosed of disease
DB001         running or jogging about 1 km
DB002         walkinf 1 km
DB003         walking 100 metres
DB004         difficulty with sitting
DB005         difficulty with climbing
DB006         difficulty with stooping, kneeling, crouching
DB007         difficulty with reaching or extending
DB008         difficulty with lifting
DB009         difficulty with picking up
XRTYPE        r interview type
```

ADL Summary: sum ADLs where respondent reports any difficulty

Wave	Variable	Label	Type
1	R1ADLA_C	r1adla_c:w1 r some diff-adls / 0-4	Cont
2	R2ADLA_C	r2adla_c:w2 r some diff-adls / 0-4	Cont
1	S1ADLA_C	s1adla_c:w1 s some diff-adls / 0-4	Cont
2	S2ADLA_C	s2adla_c:w2 s some diff-adls / 0-4	Cont
1	R1ADLAM_C	r1adlam_c:w1 r missings in adl summary	Cont
2	R2ADLAM_C	r2adlam_c:w2 r missings in adl summary	Cont
1	S1ADLAM_C	s1adlam_c:w1 s missings in adl summary	Cont
2	S2ADLAM_C	s2adlam_c:w2 s missings in adl summary	Cont
1	R1ADLWA	r1adlwa :w1 r some diff-adls: wallace / 0-3	Cont
2	R2ADLWA	r2adlwa :w2 r some diff-adls: wallace / 0-3	Cont
1	S1ADLWA	s1adlwa :w1 s some diff-adls: wallace / 0-3	Cont
2	S2ADLWA	s2adlwa :w2 s some diff-adls: wallace / 0-3	Cont
1	R1ADLWAM	r1adlwam:w1 r missings in adl wallace score	Cont
2	R2ADLWAM	r2adlwam:w2 r missings in adl wallace score	Cont
1	S1ADLWAM	s1adlwam:w1 s missings in adl wallace score	Cont
2	S2ADLWAM	s2adlwam:w2 s missings in adl wallace score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ADLA_C	17360	0.21	0.70	0.00	4.00
R2ADLA_C	18237	0.20	0.67	0.00	4.00
S1ADLA_C	14664	0.18	0.64	0.00	4.00
S2ADLA_C	14598	0.18	0.63	0.00	4.00
R1ADLAM_C	17705	0.08	0.55	0.00	4.00
R2ADLAM_C	18605	0.08	0.56	0.00	4.00
S1ADLAM_C	14889	0.06	0.49	0.00	4.00
S2ADLAM_C	14819	0.06	0.49	0.00	4.00
R1ADLWA	17360	0.15	0.55	0.00	3.00
R2ADLWA	18237	0.14	0.51	0.00	3.00
S1ADLWA	14664	0.13	0.50	0.00	3.00
S2ADLWA	14598	0.13	0.48	0.00	3.00
R1ADLWAM	17705	0.06	0.42	0.00	3.00
R2ADLWAM	18605	0.06	0.42	0.00	3.00
S1ADLWAM	14889	0.05	0.37	0.00	3.00
S2ADLWAM	14819	0.05	0.37	0.00	3.00

How Constructed:

Two Activities of Daily Living (ADL) summaries are derived. One uses the ADLs proposed
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 (RwADLA_C). In all waves the "some difficulty" versions of the individual measures are used to construct these measures, i.e., RwBATHA, RwDRESSA, RwEATA and RwBEDA. Each limitation adds one to the summary measure, that is:

RwADLA_C = sum (RwBATHA, RwDRESSA, RwEATA, RwBEDA). RwADLAM_C is the number of ADL questions with missing values. RwADLA_C is calculated for all respondents who answered at least one of the ADL component questions.

RwADLWA = sum (RwBATHA, RwDRESSA, RwEATA). RwADLWAM is the number of ADL questions with missing values. RwADLWA is calculated for all respondents who answered at least one of the ADL component questions.

RwADLA_C, RwADLWA, RwADLAM_C and RwADLWAM are set to plain missing (.) for respondents who did not respond to this wave.

SwADLA_C and SwALDWA are the respondent's spouse's summaries and are taken directly from the spouse's responses to RwADLA_C and RwADLWA, respectively. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

SwADLAM_C and SwADLWAM are taken directly from the spouse's values of RwADLAM_C and RwADLWAM, respectively. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Activities of Daily Living (ADLs): Some difficulty" for a description of how the individual dummy variables (RwBATHA, RwDRESSA, RwEATA and RwBEDA) are constructed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Unlike the HRS, CHARLS does not include walk across the room in their ADL questions. RwADLA_C is range 0-4 that does not include RwWALKA.

IADL Summary: sum IADLs where respondent reports any difficulty

Wave	Variable	Label	Type
2	R2IADLA	r2iadla:w2 r summary diff-iadls: / 0-3	Cont
2	S2IADLA	s2iadla:w2 s summary diff-iadls: / 0-3	Cont
2	R2IADLAM	r2iadlam:w2 r some difficulty-missings in iadls score	Cont
2	S2IADLAM	s2iadlam:w2 s some difficulty-missings in iadls score	Cont
2	R2IADLZA	r2iadlza:w2 r summary diff-iadls: 0-5	Cont
2	S2IADLZA	s2iadlza:w2 s summary diff-iadls: 0-5	Cont
2	R2IADLZAM	r2iadlzam:w2 r some difficulty-missings in iadls score	Cont
2	S2IADLZAM	s2iadlzam:w2 s some difficulty-missings in iadls score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2IADLA	18375	0.28	0.64	0.00	3.00
S2IADLA	14722	0.25	0.60	0.00	3.00
R2IADLAM	18605	0.10	0.41	0.00	3.00
S2IADLAM	14819	0.07	0.33	0.00	3.00
R2IADLZA	18381	0.46	1.01	0.00	5.00
S2IADLZA	14726	0.40	0.94	0.00	5.00
R2IADLZAM	18605	0.13	0.61	0.00	5.00
S2IADLZAM	14819	0.09	0.47	0.00	5.00

How Constructed:

Two Instrumental Activities of Daily Living (IADL) summaries are derived. One (RwIADLA) summarizes the commonly used IADLs, using the phone, managing money, and taking medications. The second (RwIADLZA) summarizes these tasks and adds these other commonly used IADLs: 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 = sum (RwPHONEA, RwMONEYA, RwMEDSA). RwIADLAM is the number of IADL questions with missing values, ranging from 0 to 3. RwIADLA is calculated for all respondents who answered at least one of the IADL component questions.

RwIADLZA = sum (RwPHONEA, RwMONEYA, RwMEDSA, RwSHOPA, RwMEALA). RwIADLZAM is the number of IADL questions with missing values, ranging from 0 to 5. RwIADLZA is calculated for all respondents who answered at least one of the IADL component questions.

SwIADLA and SwIADLZA are taken directly from the spouse's values of RwIADLA and RwIADLZA, respectively. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when

the respondent reports being coupled in the current wave but their spouse is not interviewed.

SwIADLAM and SwIADLZAM are taken directly from the spouse's values of RwIADLAM and RwIADLZAM, respectively. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Please see "Instrumental Activities of Daily Living (IADLs): Some difficulty" for a description of how the individual dummy variables (RwPHONEA, RwMONEYA, RwMEDSA, RwSHOPA, and RwMEALA) are constructed.

Cross Wave Differences in CHARLS

These two Instrumental Activities of Daily Living (IADL): RwIADLA and RWIADLZA are only available in wave 2. In wave 1, there is no question regarding using the phone.

Differences with the RAND HRS

Unlike the HRS, CHARLS does not include the instrumental activities of daily living (IADLs) regarding using phone in wave 1.

Mental health (CESD score)

Wave	Variable	Label	Type
1	R1DEPRESL	r1depresl:w1 cesd: felt depressed	Categ
2	R2DEPRESL	r2depresl:w2 cesd: felt depressed	Categ
1	S1DEPRESL	s1depresl:w1 cesd: felt depressed	Categ
2	S2DEPRESL	s2depresl:w2 cesd: felt depressed	Categ
1	R1EFFORTL	r1effortl:w1 cesd: everything an effort	Categ
2	R2EFFORTL	r2effortl:w2 cesd: everything an effort	Categ
1	S1EFFORTL	s1effortl:w1 cesd: everything an effort	Categ
2	S2EFFORTL	s2effortl:w2 cesd: everything an effort	Categ
1	R1SLEEPRL	r1sleeprl:w1 cesd: sleep was restless	Categ
2	R2SLEEPRL	r2sleeprl:w2 cesd: sleep was restless	Categ
1	S1SLEEPRL	s1sleeprl:w1 cesd: sleep was restless	Categ
2	S2SLEEPRL	s2sleeprl:w2 cesd: sleep was restless	Categ
1	R1WHAPPYL	r1whappyl:w1 cesd: was happy	Categ
2	R2WHAPPYL	r2whappyl:w2 cesd: was happy	Categ
1	S1WHAPPYL	r1whappyl:w1 cesd: was happy	Categ
2	S2WHAPPYL	r2whappyl:w2 cesd: was happy	Categ
1	R1FLONEL	r1flonel:w1 cesd: felt lonely	Categ
2	R2FLONEL	r2flonel:w2 cesd: felt lonely	Categ
1	S1FLONEL	s1flonel:w1 cesd: felt lonely	Categ
2	S2FLONEL	s2flonel:w2 cesd: felt lonely	Categ
1	R1BOTHERL	r1botherl:w1 cesd: bothered by little things	Categ
2	R2BOTHERL	r2botherl:w2 cesd: bothered by little things	Categ
1	S1BOTHERL	s1botherl:w1 cesd: bothered by little things	Categ
2	S2BOTHERL	s2botherl:w2 cesd: bothered by little things	Categ
1	R1GOINGL	r1goingl:w1 cesd: could not get going	Categ
2	R2GOINGL	r2goingl:w2 cesd: could not get going	Categ
1	S1GOINGL	s1goingl:w1 cesd: could not get going	Categ
2	S2GOINGL	s2goingl:w2 cesd: could not get going	Categ
1	R1MINDTSL	r1mindtsl:w1 cesd: had trouble keeping mind on what is doing	Categ
2	R2MINDTSL	r2mindtsl:w2 cesd: had trouble keeping mind on what is doing	Categ
1	S1MINDTSL	s1mindtsl:w1 cesd: had trouble keeping mind on what is doing	Categ
2	S2MINDTSL	s2mindtsl:w2 cesd: had trouble keeping mind on what is doing	Categ
1	R1FHOPEL	r1fhopel:w1 cesd: feel hopeful about the future	Categ
2	R2FHOPEL	r2fhopel:w2 cesd: feel hopeful about the future	Categ
1	S1FHOPEL	s1fhopel:w1 cesd: feel hopeful about the future	Categ
2	S2FHOPEL	s2fhopel:w2 cesd: feel hopeful about the future	Categ
1	R1FEARLL	r1fearll:w1 cesd: feel fearful	Categ
2	R2FEARLL	r2fearll:w2 cesd: feel fearful	Categ

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    1   S1FEARLL      s1fearll:w1 cesd: feel fearful                        Categ
    2   S2FEARLL      s2fearll:w2 cesd: feel fearful                        Categ

    1   R1CESD10      r1cesd10:w1 cesd score                                Cont
    2   R2CESD10      r2cesd10:w2 cesd score                                Cont

    1   S1CESD10      s1cesd10:w1 cesd score                                Cont
    2   S2CESD10      s2cesd10:w2 cesd score                                Cont

    1   R1CESD10M     r1cesd10m:w1 missing in cesd score                    Cont
    2   R2CESD10M     r2cesd10m:w2 missing in cesd score                    Cont

    1   S1CESD10M     s1cesd10m:w1 missing in cesd score                    Cont
    2   S2CESD10M     s2cesd10m:w2 missing in cesd score                    Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DEPRESL	15858	1.98	1.07	1.00	4.00
R2DEPRESL	16332	1.75	1.01	1.00	4.00
S1DEPRESL	13399	1.96	1.06	1.00	4.00
S2DEPRESL	13245	1.73	1.00	1.00	4.00
R1EFFORTL	15888	2.01	1.14	1.00	4.00
R2EFFORTL	16363	1.79	1.09	1.00	4.00
S1EFFORTL	13425	1.99	1.14	1.00	4.00
S2EFFORTL	13273	1.78	1.08	1.00	4.00
R1SLEEPRL	15989	2.05	1.19	1.00	4.00
R2SLEEPRL	16498	2.02	1.19	1.00	4.00
S1SLEEPRL	13503	2.02	1.18	1.00	4.00
S2SLEEPRL	13353	1.99	1.18	1.00	4.00
R1WHAPPYL	15946	2.94	1.11	1.00	4.00
R2WHAPPYL	16438	2.61	1.23	1.00	4.00
S1WHAPPYL	13469	2.96	1.11	1.00	4.00
S2WHAPPYL	13315	2.62	1.23	1.00	4.00
R1FLONEL	15922	1.54	0.95	1.00	4.00
R2FLONEL	16421	1.42	0.87	1.00	4.00
S1FLONEL	13448	1.45	0.87	1.00	4.00
S2FLONEL	13301	1.35	0.79	1.00	4.00
R1BOTHERL	15919	2.03	1.11	1.00	4.00
R2BOTHERL	16332	1.75	1.03	1.00	4.00
S1BOTHERL	13441	2.03	1.11	1.00	4.00
S2BOTHERL	13245	1.75	1.02	1.00	4.00
R1GOINGL	15884	1.37	0.79	1.00	4.00
R2GOINGL	16386	1.27	0.72	1.00	4.00
S1GOINGL	13428	1.34	0.77	1.00	4.00
S2GOINGL	13277	1.25	0.69	1.00	4.00
R1MINDTSL	15823	1.92	1.08	1.00	4.00
R2MINDTSL	16197	1.73	1.03	1.00	4.00

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S1MINDTSL       13387         1.90        1.08        1.00        4.00
S2MINDTSL       13146         1.72        1.02        1.00        4.00

R1FHOPEL        15629         2.83        1.20        1.00        4.00
R2FHOPEL        16052         2.45        1.29        1.00        4.00

S1FHOPEL        13213         2.86        1.19        1.00        4.00
S2FHOPEL        13040         2.48        1.29        1.00        4.00

R1FEARLL        15970         1.36        0.78        1.00        4.00
R2FEARLL        16478         1.27        0.72        1.00        4.00

S1FEARLL        13484         1.35        0.77        1.00        4.00
S2FEARLL        13337         1.26        0.70        1.00        4.00

R1CESD10        16035         8.40        6.33        0.00       30.00
R2CESD10        16561         7.83        5.77        0.00       30.00

S1CESD10        13533         8.14        6.23        0.00       30.00
S2CESD10        13400         7.63        5.68        0.00       30.00

R1CESD10M       17705         1.03        2.94        0.00       10.00
R2CESD10M       18605         1.22        3.15        0.00       10.00

S1CESD10M       14889         0.99        2.90        0.00       10.00
S2CESD10M       14819         1.06        2.96        0.00       10.00
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Categorical Variable Codes

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Value-----------------------------------|  R1DEPRESL    R2DEPRESL
.d:dk                                    |      192
.m:missing                               |     1293         1802
.p:proxy                                 |      354          477
.r:refuse                                |        8
1.rarely or none of the time < 1 day     |     7238         9395
2.some or a little of the time 1-2 days  |     3673         3166
3.occasionally or a moderate amount of 3 |     2988         2267
4.most or all of the time 5-7 days       |     1959         1504

Value-----------------------------------|  S1DEPRESL    S2DEPRESL
.d:dk                                    |      144
.m:missing                               |     1032         1224
.p:proxy                                 |      309          350
.r:refuse                                |        5
.u:unmar                                 |     2278         2426
.v:sp nr                                 |      538         1360
1.rarely or none of the time < 1 day     |     6225         7740
2.some or a little of the time 1-2 days  |     3080         2564
3.occasionally or a moderate amount of 3 |     2510         1781
4.most or all of the time 5-7 days       |     1584         1160

Value-----------------------------------|  R1EFFORTL    R2EFFORTL
.d:dk                                    |      161
.m:missing                               |     1293         1771
.p:proxy                                 |      354          477
.r:refuse                                |        9
1.rarely or none of the time < 1 day     |     7708         9694
2.some or a little of the time 1-2 days  |     2951         2499
3.occasionally or a moderate amount of 3 |     2624         2022
4.most or all of the time 5-7 days       |     2605         2148
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Value-------------------------------|    S1EFFORTL      S2EFFORTL
.d:dk                              |       116
.m:missing                         |      1032           1196
.p:proxy                           |       309            350
.r:refuse                          |         7
.u:unmar                           |      2278           2426
.v:sp nr                           |       538           1360
1.rarely or none of the time < 1 day  |   6630           7910
2.some or a little of the time 1-2 days|   2467           2047
3.occasionally or a moderate amount of 3|  2204           1643
4.most or all of the time 5-7 days   |     2124           1673

Value-------------------------------|    R1SLEEPRL      R2SLEEPRL
.d:dk                              |        60
.m:missing                         |      1294           1636
.p:proxy                           |       354            477
.r:refuse                          |         8
1.rarely or none of the time < 1 day  |   7790           8323
2.some or a little of the time 1-2 days|   2681           2652
3.occasionally or a moderate amount of 3|  2379           2312
4.most or all of the time 5-7 days   |     3139           3211

Value-------------------------------|    S1SLEEPRL      S2SLEEPRL
.d:dk                              |        40
.m:missing                         |      1032           1116
.p:proxy                           |       309            350
.r:refuse                          |         5
.u:unmar                           |      2278           2426
.v:sp nr                           |       538           1360
1.rarely or none of the time < 1 day  |   6755           6912
2.some or a little of the time 1-2 days|   2234           2140
3.occasionally or a moderate amount of 3|  1961           1814
4.most or all of the time 5-7 days   |     2553           2487

Value-------------------------------|    R1WHAPPYL      R2WHAPPYL
.d:dk                              |        99
.m:missing                         |      1294           1696
.p:proxy                           |       354            477
.r:refuse                          |        12
1.rarely or none of the time < 1 day  |   2637           4759
2.some or a little of the time 1-2 days|   2449           2506
3.occasionally or a moderate amount of 3|  4065           3505
4.most or all of the time 5-7 days   |     6795           5668

Value-------------------------------|    S1WHAPPYL      S2WHAPPYL
.d:dk                              |        71
.m:missing                         |      1032           1154
.p:proxy                           |       309            350
.r:refuse                          |         8
.u:unmar                           |      2278           2426
.v:sp nr                           |       538           1360
1.rarely or none of the time < 1 day  |   2150           3820
2.some or a little of the time 1-2 days|   2026           2028
3.occasionally or a moderate amount of 3|  3454           2817
4.most or all of the time 5-7 days   |     5839           4650

Value-------------------------------|    R1FLONEL       R2FLONEL
.d:dk                              |       124
.m:missing                         |      1294           1713
.p:proxy                           |       354            477
.r:refuse                          |        11
1.rarely or none of the time < 1 day  |  11209          12651
2.some or a little of the time 1-2 days|   2020           1601
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3.occasionally or a moderate amount of 3|         1444          1145
4.most or all of the time 5-7 days      |         1249          1024

Value-----------------------------------|     S1FLONEL     S2FLONEL
.d:dk                                    |           95
.m:missing                               |         1032          1168
.p:proxy                                 |          309           350
.r:refuse                                |            5
.u:unmar                                 |         2278          2426
.v:sp nr                                 |          538          1360
1.rarely or none of the time < 1 day     |         9967         10678
2.some or a little of the time 1-2 days  |         1646          1224
3.occasionally or a moderate amount of 3|         1061           800
4.most or all of the time 5-7 days       |          774           599

Value-----------------------------------|     R1BOTHERL     R2BOTHERL
.d:dk                                    |          137
.m:missing                               |         1290          1802
.p:proxy                                 |          353           477
.r:refuse                                |            6
1.rarely or none of the time < 1 day     |         7178          9445
2.some or a little of the time 1-2 days  |         3481          3119
3.occasionally or a moderate amount of 3|         2860          2102
4.most or all of the time 5-7 days       |         2400          1666

Value-----------------------------------|     S1BOTHERL     S2BOTHERL
.d:dk                                    |          107
.m:missing                               |         1030          1224
.p:proxy                                 |          308           350
.r:refuse                                |            3
.u:unmar                                 |         2278          2426
.v:sp nr                                 |          538          1360
1.rarely or none of the time < 1 day     |         6060          7674
2.some or a little of the time 1-2 days  |         2973          2529
3.occasionally or a moderate amount of 3|         2412          1713
4.most or all of the time 5-7 days       |         1996          1329

Value-----------------------------------|     R1GOINGL      R2GOINGL
.d:dk                                    |          162
.m:missing                               |         1294          1748
.p:proxy                                 |          354           477
.r:refuse                                |           11
1.rarely or none of the time < 1 day     |        12452         13953
2.some or a little of the time 1-2 days  |         1722          1059
3.occasionally or a moderate amount of 3|          996           742
4.most or all of the time 5-7 days       |          714           632

Value-----------------------------------|     S1GOINGL      S2GOINGL
.d:dk                                    |          115
.m:missing                               |         1032          1192
.p:proxy                                 |          309           350
.r:refuse                                |            5
.u:unmar                                 |         2278          2426
.v:sp nr                                 |          538          1360
1.rarely or none of the time < 1 day     |        10709         11445
2.some or a little of the time 1-2 days  |         1358           814
3.occasionally or a moderate amount of 3|          815           555
4.most or all of the time 5-7 days       |          546           463

Value-----------------------------------|     R1MINDTSL     R2MINDTSL
.d:dk                                    |          223
.m:missing                               |         1290          1937
.p:proxy                                 |          354           477
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.r:refuse                             |           15
1.rarely or none of the time < 1 day  |         7976           9708
2.some or a little of the time 1-2 days |       3200           2786
3.occasionally or a moderate amount of 3|       2626           2083
4.most or all of the time 5-7 days    |         2021           1620

Value---------------------------------|    S1MINDTSL      S2MINDTSL
.d:dk                                 |          153
.m:missing                            |         1030           1323
.p:proxy                              |          309            350
.r:refuse                             |           10
.u:unmar                              |         2278           2426
.v:sp nr                              |          538           1360
1.rarely or none of the time < 1 day  |         6840           7914
2.some or a little of the time 1-2 days |       2671           2274
3.occasionally or a moderate amount of 3|       2199           1662
4.most or all of the time 5-7 days    |         1677           1296

Value---------------------------------|    R1FHOPEL       R2FHOPEL
.d:dk                                 |          414
.m:missing                            |         1293           2082
.p:proxy                              |          354            477
.r:refuse                             |           15
1.rarely or none of the time < 1 day  |         3490           5959
2.some or a little of the time 1-2 days |       2365           2207
3.occasionally or a moderate amount of 3|       3115           2576
4.most or all of the time 5-7 days    |         6659           5310

Value---------------------------------|    S1FHOPEL       S2FHOPEL
.d:dk                                 |          327
.m:missing                            |         1032           1429
.p:proxy                              |          309            350
.r:refuse                             |            8
.u:unmar                              |         2278           2426
.v:sp nr                              |          538           1360
1.rarely or none of the time < 1 day  |         2829           4732
2.some or a little of the time 1-2 days |       1945           1783
3.occasionally or a moderate amount of 3|       2661           2099
4.most or all of the time 5-7 days    |         5778           4426

Value---------------------------------|    R1FEARLL       R2FEARLL
.d:dk                                 |           80
.m:missing                            |         1293           1656
.p:proxy                              |          354            477
.r:refuse                             |            8
1.rarely or none of the time < 1 day  |        12604          13996
2.some or a little of the time 1-2 days |       1673           1088
3.occasionally or a moderate amount of 3|       1013            785
4.most or all of the time 5-7 days    |          680            609

Value---------------------------------|    S1FEARLL       S2FEARLL
.d:dk                                 |           59
.m:missing                            |         1032           1132
.p:proxy                              |          309            350
.r:refuse                             |            5
.u:unmar                              |         2278           2426
.v:sp nr                              |          538           1360
1.rarely or none of the time < 1 day  |        10735          11415
2.some or a little of the time 1-2 days |       1358            862
3.occasionally or a moderate amount of 3|        830            607
4.most or all of the time 5-7 days    |          561            453
```

How Constructed:

RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL record the frequency of the respondent's feeling over the week prior to the interview. RwDEPRESL indicates whether the respondent was feeling depressed. RwEFFORTL indicates whether the respondent was feeling that everything was an effort. RwSLEEPRL indicates whether the respondent's sleep was restless. RwWHAPPYL indicates whether the respondent felt happy. RwFLONEL indicates whether the respondent felt lonely. RwBOTHERL indicates whether the respondent bothered by thing that don't usually bother me. RwGOINGL indicates whether the respondent felt he/she could not get going. RwMINDTSL indicates whether the respondent has trouble keeping my mind on what I was doing. RwFHOPEL indicates whether the respondent felt hopeful about the future. RwFEARLL indicates whether the respondent felt fearful.

A code of 1 indicates that the respondent experienced the particular feeling rarely or none (less than once a day). A code of 2 indicates the respondent experienced the particular feeling some or a little of the time (1-2 days). A code of 3 indicates the respondent experienced the particular feeling occasionally or moderate amount of time (3-4 days). A code of 4 indicates the respondent experienced the particular feeling most or all of the time (5-7 days). Don't know, refused, or other missings values or RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are assigned special missing codes .d, .r, .m, respectively. RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are set to special missing (.p) if the mental health questions were skipped because the interview was by proxy. RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL are set to plain missing (.) for respondents who did not respond to this wave.

SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPEL and SwFEARLL indicate whether the respondent's spouse reported any feelings and are taken directly from the spouse's responses to RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL, respectively. In addition to the special missing codes used in RwDEPRESL, RwEFFORTL, RwSLEEPRL, RwWHAPPYL, RwFLONEL, RwBOTHERL, RwGOINGL, RwMINDTSL, RwFHOPEL and RwFEARLL, SwDEPRESL, SwEFFORTL, SwSLEEPRL, SwWHAPPYL, SwFLONEL, SwBOTHERL, SwGOINGL, SwMINDTSL, SwFHOPEL and SwFEARLL employ two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCESD10 is the sum of the ten questions, after reverse coding RwFHOPEL and RwWHAPPYL. Additionally, the scales for each of the ten questions were adjusted so that the anchors were 0 to 3, rather than 1 to 4. RwCESD10 ranges from 0 to 30 with higher scores indicating that the respondent felt more negative feelings during the past week.

SwCESD10 gives this information for the respondent's spouse or partner. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwCESD10M indicates how many individual measures used to derive RwCESD10 are missing.

SwCESD10M indicates how many individual measures used to derive SwCESD10 are missing. SwCESD10M is taken directly from the spouse's values of RwCESD10M. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the CHARLS, CESD questions are asked using a 4 point scale which correspond to the frequency of respondent's feeling in the past week. All but the first wave of the HRS respondents were asked CESD questions as yes and no.

Unlike the HRS, the CHARLS does not include a question asking respondents whether they felt sad or enjoyed life. Four additional variables which are not included in the HRS are included in the CHARLS that asked about bothered by little thing, had trouble keeping mind on what is doing, feel hopeful about the future and feel fearful.

While the RAND HRS uses an 8-item version of the CESD scale, the CHARLS version of the CESD scale was validated with 10-items. RwCESD10 is based on the 10 CHARLS CESD questions which, unlike the RAND HRS measure RwCESD doesn't include a question about everything was feeling like an effort and does include three additional questions: RwFEARL, RwKEMINDL, RwBOTHERL. Because of the difference in the number of questions used for the summary measure and the use of a 4-point scale for each question, RwCESD10 ranges from 0-30 unlike the RAND HRS RwCESD which ranges from 0-8.

CHARLS Variables Used:

```
Wave 1:
    DB032       How Often Did the Respondent Receive Assistance
    DC009       Bothered by Things
    DC010       Had Trouble Keeping Mind
    DC011       Felt Depressed
    DC012       Felt Everything I Did Was An Effort
    DC013       Felt Hopeful About the Future
    DC014       Felt fearful
    DC015       Sleep Was Restless
    DC016       Happy
    DC017       Felt Lonely
    DC018       Could Not Get Going
Wave 2:
    DB032       receive assistance
    DC009       bothered by things
    DC010       had trouble keeping mind
    DC011       felt depressed
    DC012       i felt everything i did was an effort.
    DC013       i felt hopeful about the future.
    DC014       i felt fearful.
    DC015       my sleep was restless.
    DC016       i was happy.
    DC017       i felt lonely.
    DC018       i could not get
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Doctor diagnosed health problems: Ever Had 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
1	S1HIBPE	s1hibpe:w1 s ever had high blood pressure	Categ
2	S2HIBPE	s2hibpe:w2 s ever had high blood pressure	Categ
1	R1DIABE	r1diabe:w1 r ever had diabetes	Categ
2	R2DIABE	r2diabe:w2 r ever had diabetes	Categ
1	S1DIABE	s1diabe:w1 s ever had diabetes	Categ
2	S2DIABE	s2diabe:w2 s ever had diabetes	Categ
1	R1CANCRE	r1cancre:w1 r ever had cancer	Categ
2	R2CANCRE	r2cancre:w2 r ever had cancer	Categ
1	S1CANCRE	s1cancre:w1 s ever had cancer	Categ
2	S2CANCRE	s2cancre:w2 s ever had cancer	Categ
1	R1LUNGE	r1lunge:w1 r ever had lung disease	Categ
2	R2LUNGE	r2lunge:w2 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
1	R1HEARTE	r1hearte:w1 r ever had heart problem	Categ
2	R2HEARTE	r2hearte:w2 r ever had heart problem	Categ
1	S1HEARTE	s1hearte:w1 s ever had heart problem	Categ
2	S2HEARTE	s2hearte:w2 s ever had heart problem	Categ
1	R1STROKE	r1stroke:w1 r ever had stroke	Categ
2	R2STROKE	r2stroke:w2 r ever had stroke	Categ
1	S1STROKE	s1stroke:w1 s ever had stroke	Categ
2	S2STROKE	s2stroke:w2 s ever had stroke	Categ
1	R1PSYCHE	r1psyche:w1 r ever had psych problem	Categ
2	R2PSYCHE	r2psyche:w2 r ever had psych problem	Categ
1	S1PSYCHE	s1psyche:w1 s ever had psych problem	Categ
2	S2PSYCHE	s2psyche:w2 s ever had psych problem	Categ
1	R1ARTHRE	r1arthre:w1 r ever had arthritis	Categ
2	R2ARTHRE	r2arthre:w2 r ever had arthritis	Categ
1	S1ARTHRE	s1arthre:w1 s ever had arthritis	Categ
2	S2ARTHRE	s2arthre:w2 s ever had arthritis	Categ
1	R1DYSLIPE	r1dyslipe:w1 r ever had dyslipidemia	Categ
2	R2DYSLIPE	r2dyslipe:w2 r ever had dyslipidemia	Categ
1	S1DYSLIPE	s1dyslipe:w1 s ever had dyslipidemia	Categ
2	S2DYSLIPE	s2dyslipe:w2 s ever had dyslipidemia	Categ
1	R1LIVERE	r1livere:w1 r ever had liver disease	Categ
2	R2LIVERE	r2livere:w2 r ever had liver disease	Categ

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 1   S1LIVERE      s1livere:w1 s ever had liver disease                            Categ
 2   S2LIVERE      s2livere:w2 s ever had liver disease                            Categ

 1   R1KIDNEYE     r1kidneye:w1 r ever had kidney disease                          Categ
 2   R2KIDNEYE     r2kidneye:w2 r ever had kidney disease                          Categ

 1   S1KIDNEYE     s1kidneye:w1 s ever had kidney disease                          Categ
 2   S2KIDNEYE     s2kidneye:w2 s ever had kidney disease                          Categ

 1   R1DIGESTE     r1digeste:w1 r ever had stomach or other digestive disease      Categ
 2   R2DIGESTE     r2digeste:w2 r ever had stomach or other digestive disease      Categ

 1   S1DIGESTE     s1digeste:w1 s ever had stomach or other digestive disease      Categ
 2   S2DIGESTE     s2digeste:w2 s ever had stomach or other digestive disease      Categ

 1   R1ASTHMAE     r1asthmae:w1 r ever had asthma                                  Categ
 2   R2ASTHMAE     r2asthmae:w2 r ever had asthma                                  Categ

 1   S1ASTHMAE     s1asthmae:w1 s ever had asthma                                  Categ
 2   S2ASTHMAE     s2asthmae:w2 s ever had asthma                                  Categ
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIBPE	17468	0.25	0.43	0.00	1.00
R2HIBPE	17843	0.26	0.44	0.00	1.00
S1HIBPE	14754	0.24	0.42	0.00	1.00
S2HIBPE	14327	0.26	0.44	0.00	1.00
R1DIABE	17406	0.06	0.23	0.00	1.00
R2DIABE	18099	0.07	0.25	0.00	1.00
S1DIABE	14706	0.06	0.23	0.00	1.00
S2DIABE	14498	0.07	0.25	0.00	1.00
R1CANCRE	17484	0.01	0.10	0.00	1.00
R2CANCRE	18318	0.01	0.10	0.00	1.00
S1CANCRE	14771	0.01	0.10	0.00	1.00
S2CANCRE	14667	0.01	0.10	0.00	1.00
R1LUNGE	17494	0.10	0.30	0.00	1.00
R2LUNGE	17981	0.09	0.29	0.00	1.00
S1LUNGE	14781	0.10	0.30	0.00	1.00
S2LUNGE	14410	0.09	0.29	0.00	1.00
R1HEARTE	17465	0.12	0.32	0.00	1.00
R2HEARTE	18006	0.12	0.33	0.00	1.00
S1HEARTE	14755	0.11	0.32	0.00	1.00
S2HEARTE	14449	0.12	0.32	0.00	1.00
R1STROKE	17524	0.02	0.15	0.00	1.00
R2STROKE	18283	0.02	0.15	0.00	1.00
S1STROKE	14800	0.02	0.15	0.00	1.00
S2STROKE	14642	0.02	0.14	0.00	1.00
R1PSYCHE	17488	0.01	0.12	0.00	1.00
R2PSYCHE	18328	0.01	0.10	0.00	1.00

S1PSYCHE	14771	0.01	0.12	0.00	1.00
S2PSYCHE	14674	0.01	0.10	0.00	1.00
R1ARTHRE	17522	0.33	0.47	0.00	1.00
R2ARTHRE	17201	0.31	0.46	0.00	1.00
S1ARTHRE	14797	0.33	0.47	0.00	1.00
S2ARTHRE	13822	0.31	0.46	0.00	1.00
R1DYSLIPE	17211	0.09	0.29	0.00	1.00
R2DYSLIPE	17696	0.11	0.31	0.00	1.00
S1DYSLIPE	14550	0.09	0.29	0.00	1.00
S2DYSLIPE	14194	0.11	0.31	0.00	1.00
R1LIVERE	17436	0.04	0.19	0.00	1.00
R2LIVERE	18183	0.03	0.18	0.00	1.00
S1LIVERE	14731	0.04	0.19	0.00	1.00
S2LIVERE	14558	0.04	0.19	0.00	1.00
R1KIDNEYE	17450	0.06	0.24	0.00	1.00
R2KIDNEYE	18133	0.06	0.23	0.00	1.00
S1KIDNEYE	14749	0.06	0.25	0.00	1.00
S2KIDNEYE	14529	0.06	0.23	0.00	1.00
R1DIGESTE	17515	0.22	0.42	0.00	1.00
R2DIGESTE	17609	0.22	0.41	0.00	1.00
S1DIGESTE	14793	0.23	0.42	0.00	1.00
S2DIGESTE	14108	0.22	0.42	0.00	1.00
R1ASTHMAE	17495	0.04	0.19	0.00	1.00
R2ASTHMAE	18192	0.03	0.17	0.00	1.00
S1ASTHMAE	14777	0.03	0.18	0.00	1.00
S2ASTHMAE	14575	0.03	0.16	0.00	1.00

Categorical Variable Codes

```
Value---------------------------------|      R1HIBPE       R2HIBPE
.d:dk                                 |         109
.m:missing                            |         125           767
.r:refuse                             |           3
0.no                                  |       13184         13116
1.yes                                 |        4284          4727

Value---------------------------------|      S1HIBPE       S2HIBPE
.d:dk                                 |          87
.m:missing                            |          46           492
.r:refuse                             |           2
.u:unmar                              |        2278          2426
.v:sp nr                              |         538          1360
0.no                                  |       11267         10635
1.yes                                 |        3487          3692

Value---------------------------------|      R1DIABE       R2DIABE
.d:dk                                 |         148
.m:missing                            |         149           511
.r:refuse                             |           2
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0.no                                    |     16413       16882
1.yes                                   |       993        1217

Value-----------------------------------|   S1DIABE     S2DIABE
.d:dk                                   |       116
.m:missing                              |        65         321
.r:refuse                               |         2
.u:unmar                                |      2278        2426
.v:sp nr                                |       538        1360
0.no                                    |     13862       13519
1.yes                                   |       844         979

Value-----------------------------------|   R1CANCRE    R2CANCRE
.d:dk                                   |        72
.m:missing                              |       146         292
.r:refuse                               |         3
0.no                                    |     17304       18142
1.yes                                   |       180         176

Value-----------------------------------|   S1CANCRE    S2CANCRE
.d:dk                                   |        55
.m:missing                              |        61         152
.r:refuse                               |         2
.u:unmar                                |      2278        2426
.v:sp nr                                |       538        1360
0.no                                    |     14612       14524
1.yes                                   |       159         143

Value-----------------------------------|   R1LUNGE     R2LUNGE
.d:dk                                   |        66
.m:missing                              |       141         629
.r:refuse                               |         4
0.no                                    |     15713       16316
1.yes                                   |      1781        1665

Value-----------------------------------|   S1LUNGE     S2LUNGE
.d:dk                                   |        47
.m:missing                              |        59         409
.r:refuse                               |         2
.u:unmar                                |      2278        2426
.v:sp nr                                |       538        1360
0.no                                    |     13330       13114
1.yes                                   |      1451        1296

Value-----------------------------------|   R1HEARTE    R2HEARTE
.d:dk                                   |        92
.m:missing                              |       144         604
.r:refuse                               |         4
0.no                                    |     15372       15840
1.yes                                   |      2093        2166

Value-----------------------------------|   S1HEARTE    S2HEARTE
.d:dk                                   |        68
.m:missing                              |        63         370
.r:refuse                               |         3
.u:unmar                                |      2278        2426
.v:sp nr                                |       538        1360
0.no                                    |     13061       12769
1.yes                                   |      1694        1680

Value-----------------------------------|   R1STROKE    R2STROKE
.d:dk                                   |        37
.m:missing                              |       141         327
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.r:refuse                                   |              3
0.no                                        |          17111          17865
1.yes                                       |            413            418

Value---------------------------------|      S1STROKE       S2STROKE
.d:dk                                       |             25
.m:missing                                  |             62            177
.r:refuse                                   |              2
.u:unmar                                    |           2278           2426
.v:sp nr                                    |            538           1360
0.no                                        |          14479          14329
1.yes                                       |            321            313

Value---------------------------------|      R1PSYCHE       R2PSYCHE
.d:dk                                       |             45
.m:missing                                  |            168            282
.r:refuse                                   |              4
0.no                                        |          17237          18130
1.yes                                       |            251            198

Value---------------------------------|      S1PSYCHE       S2PSYCHE
.d:dk                                       |             32
.m:missing                                  |             83            145
.r:refuse                                   |              3
.u:unmar                                    |           2278           2426
.v:sp nr                                    |            538           1360
0.no                                        |          14573          14531
1.yes                                       |            198            143

Value---------------------------------|      R1ARTHRE       R2ARTHRE
.d:dk                                       |             43
.m:missing                                  |            137           1408
.r:refuse                                   |              3
0.no                                        |          11749          11874
1.yes                                       |           5773           5327

Value---------------------------------|      S1ARTHRE       S2ARTHRE
.d:dk                                       |             34
.m:missing                                  |             56            997
.r:refuse                                   |              2
.u:unmar                                    |           2278           2426
.v:sp nr                                    |            538           1360
0.no                                        |           9983           9581
1.yes                                       |           4814           4241

Value---------------------------------|     R1DYSLIPE      R2DYSLIPE
.d:dk                                       |            338
.m:missing                                  |            151            914
.r:refuse                                   |              5
0.no                                        |          15616          15805
1.yes                                       |           1595           1891

Value---------------------------------|     S1DYSLIPE      S2DYSLIPE
.d:dk                                       |            265
.m:missing                                  |             70            625
.r:refuse                                   |              4
.u:unmar                                    |           2278           2426
.v:sp nr                                    |            538           1360
0.no                                        |          13203          12661
1.yes                                       |           1347           1533

Value---------------------------------|      R1LIVERE       R2LIVERE
.d:dk                                       |            123
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.m:missing                             |        143         427
.r:refuse                              |          3
0.no                                   |      16760       17555
1.yes                                  |        676         628
```

Value	S1LIVERE	S2LIVERE
.d:dk	97	
.m:missing	59	261
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	14151	14040
1.yes	580	518

Value	R1KIDNEYE	R2KIDNEYE
.d:dk	103	
.m:missing	149	476
.r:refuse	3	
0.no	16344	17119
1.yes	1106	1014

Value	S1KIDNEYE	S2KIDNEYE
.d:dk	73	
.m:missing	65	290
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	13796	13709
1.yes	953	820

Value	R1DIGESTE	R2DIGESTE
.d:dk	48	
.m:missing	139	1001
.r:refuse	3	
0.no	13613	13755
1.yes	3902	3854

Value	S1DIGESTE	S2DIGESTE
.d:dk	35	
.m:missing	59	711
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	11442	10952
1.yes	3351	3156

Value	R1ASTHMAE	R2ASTHMAE
.d:dk	28	
.m:missing	179	417
.r:refuse	3	
0.no	16858	17668
1.yes	637	524

Value	S1ASTHMAE	S2ASTHMAE
.d:dk	18	
.m:missing	92	244
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	14287	14185
1.yes	490	390

How Constructed:

RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE indicate the respondent's answer to the question regarding whether or not a doctor has told the respondent he/she had a specific condition.

A code of 0 indicates that the respondent does not report having been told by a doctor he/she has the condition. A code of 1 indicates that the respondent reports having been told by a doctor he/she has the condition. This positive report can either be based on a report in the current wave or based on a respondent's previous report of the condition which they confirm in the current wave. Don't know, missing, or refused values of RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE are assigned special missing codes .d, .m, .r, respectively. RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE are set to plain missing (.) for respondents who did not respond to this wave.

RwHIBPE indicates whether the respondent reported having hypertension.

RwDIABE indicates whether the respondent reported having diabetes or high blood sugar.

RwCANCRE indicates whether the respondent reported having cancer or a malignant tumor (excluding minor skin cancers).

RwLUNGE indicates whether the respondent reported having chronic lung disease such as chronic bronchitis or emphysema.

RwHEARTE indicates whether the respondent reported having heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems. RwHEARTE indicates whether the respondent reported any of these conditions.

RwSTROKE indicates whether the respondent reported having a stroke.

RwPSYCHE indicates whether the respondent reported having any emotional, nervous, or psychiatric problems.

RwARTHRE indicates whether the respondent reported having arthritis.

RwDYSLIPE indicates whether the respondent reported ever having dyslipidemia (elevation of low density lipoprotein, triglycerides (TGs), and total cholesterol, or a low high density lipoprotein level).

RwLIVERE indicates whether the respondent reported having any liver disease (except fatty liver, tumors, and cancer).

RwKIDNEYE indicates whether the respondent reported having any kidney disease (except for tumor or cancer).

RwDIGESTE indicates whether the respondent reported having any stomach or other digestive disease (except for tumor or cancer).

RwASTHMAE indicates whether the respondent reported having asthma.

SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwDYSLIPE, SwLIVERE, SwKIDNEYE, SwDIGESTE, and SwASTHMAE indicate whether the respondent's spouse reported ever being told by a doctor he/she has any of these conditions and are taken directly from the spouse's RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE, respectively. In addition to the special missing codes used in RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, and RwARTHRE, SwHIBPE, SwDIABE, SwCANCRE, SwLUNGE, SwHEARTE, SwSTROKE, SwPSYCHE, SwARTHRE, SwDYSLIPE, SwLIVERE, SwKIDNEYE, SwDIGESTE, and SwASTHMAE employ two other missing

codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Starting in Wave 2, re-interview respondents were asked to confirm whether have had or had not had each condition based on their previous report. If the respondent disputes the previous report, re-interview respondent are then asked whether they have been diagnosed with the condition since the last interview. Currently disputes of previous reports are not incorporated into RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE but previous reports of a condition are not carried forward to a wave in which the previous report is disputed.

Differences with the RAND HRS

Unlike the HRS, the CHARLS includes 5 more chronic disease questions for the respondent to answer: dyslipidemia, liver disease, kidney disease, stomach or other digestive disease, and asthma.

Unlike the RAND HRS, disputes of previously reported conditions are not currently incorporated into RwHIBPE, RwDIABE, RwCANCRE, RwLUNGE, RwHEARTE, RwSTROKE, RwPSYCHE, RwARTHRE, RwDYSLIPE, RwLIVERE, RwKIDNEYE, RwDIGESTE and RwASTHMAE in the Harmonized CHARLS.

CHARLS Variables Used:

```
Wave 1:
    DA007_10_       Stomach or Other Digestive Disease
    DA007_11_       Emotional,Nervous,or Psychiatric Problems
    DA007_12_       Memory-Related Disease
    DA007_13_       Arthritis or Rheumatism
    DA007_14_       Asthma
    DA007_1_        Hypertension
    DA007_2_        Dyslipidemia
    DA007_3_        Disabetes or High Blood Sugar
    DA007_4_        Cancer or Malignant Tumor
    DA007_5_        Chronic Lung Diseases
    DA007_6_        Liver Disease
    DA007_7_        Heart Problems
    DA007_8_        Stroke
    DA007_9_        Kidney Diease
Wave 2:
    DA007_10_       have been diagnosed of disease
    DA007_11_       have been diagnosed of disease
    DA007_13_       have been diagnosed of disease
    DA007_14_       have been diagnosed of disease
    DA007_1_        have been diagnosed of disease
    DA007_2_        have been diagnosed of disease
    DA007_3_        have been diagnosed of disease
    DA007_4_        have been diagnosed of disease
    DA007_5_        have been diagnosed of disease
    DA007_6_        have been diagnosed of disease
    DA007_7_        have been diagnosed of disease
    DA007_8_        have been diagnosed of disease
    DA007_9_        have been diagnosed of disease
    DA007_W2_1_10_ verify disease record
    DA007_W2_1_11_ verify disease record
    DA007_W2_1_13_ verify disease record
    DA007_W2_1_14_ verify disease record
```

```
DA007_W2_1_1_    verify disease record
DA007_W2_1_2_    verify disease record
DA007_W2_1_3_    verify disease record
DA007_W2_1_4_    verify disease record
DA007_W2_1_5_    verify disease record
DA007_W2_1_6_    verify disease record
DA007_W2_1_7_    verify disease record
DA007_W2_1_8_    verify disease record
DA007_W2_1_9_    verify disease record
DA007_W2_2_10_   doctor told disease
DA007_W2_2_11_   doctor told disease
DA007_W2_2_13_   doctor told disease
DA007_W2_2_14_   doctor told disease
DA007_W2_2_1_    doctor told disease
DA007_W2_2_2_    doctor told disease
DA007_W2_2_3_    doctor told disease
DA007_W2_2_4_    doctor told disease
DA007_W2_2_5_    doctor told disease
DA007_W2_2_6_    doctor told disease
DA007_W2_2_7_    doctor told disease
DA007_W2_2_8_    doctor told disease
DA007_W2_2_9_    doctor told disease
XRTYPE           r interview type
ZDA007_10_       chronic disease
ZDA007_11_       chronic disease
ZDA007_13_       chronic disease
ZDA007_14_       chronic disease
ZDA007_1_        chronic disease
ZDA007_2_        chronic disease
ZDA007_3_        chronic disease
ZDA007_4_        chronic disease
ZDA007_5_        chronic disease
ZDA007_6_        chronic disease
ZDA007_7_        chronic disease
ZDA007_8_        chronic disease
ZDA007_9_        chronic disease
```

Doctor diagnosed health problems: Memory-related disease

Wave	Variable	Label	Type
1	R1MEMRYE	r1memrye:w1 r ever had memory problem	Categ
2	R2MEMRYE	r2memrye:w2 r ever had memory problem	Categ
1	S1MEMRYE	s1memrye:w1 s ever had memory problem	Categ
2	S2MEMRYE	s2memrye:w2 s ever had memory problem	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MEMRYE	17505	0.02	0.12	0.00	1.00
R2MEMRYE	18254	0.02	0.13	0.00	1.00
S1MEMRYE	14787	0.01	0.12	0.00	1.00
S2MEMRYE	14629	0.01	0.12	0.00	1.00

Categorical Variable Codes

Value	R1MEMRYE	R2MEMRYE
.d:dk	46	
.m:missing	151	356
.r:refuse	3	
0.no	17228	17957
1.yes	277	297

Value	S1MEMRYE	S2MEMRYE
.d:dk	32	
.m:missing	68	190
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	14582	14416
1.yes	205	213

How Constructed:

RwMEMRYE indicates the respondent's response to the question regarding whether or not
a doctor has told the respondent he/she has a memory related condition. A code of 0
indicates that the respondent does not report having been told by a doctor. A code of
1 indicates that the respondent reports having been told by a doctor they have the
condition. This positive report can either be based on a report in the current wave or
based on a respondent's previous report of a memory related disease which they confirm
in the current wave. Don't know, missing, or refused values of RwMEMRYE are assigned
special missing codes .d, .m, .r, respectively. RwMEMRYE is set to plain missing (.)
for respondents who did not respond to this wave.

SwMEMRYE indicates whether the respondent's spouse reported ever being told by a
doctor he/she has either of these conditions and is taken directly from the spouse's
values to RwMEMRYE. In addition to the special missing codes used in RwMEMRYE,
SwMEMRYE employs two other missing codes, .u and .v. Special missing value .u is used
when the respondent does not report being coupled in the current wave. Special missing
value .v is used when the respondent reports being coupled in the current wave but
their spouse is not interviewed.

Cross Wave Differences in CHARLS

Starting in Wave 2, re-interview respondents were asked to confirm whether have had or had not had a memory related condition based on their previous report. If the respondent disputes the previous report, re-interview respondent are then asked whether they have been diagnosed with a memory related condition since the last interview. Currently disputes of previous reports are not incorporated into RwMEMRYE but previous reports of a memory related condition are not carried forward to a wave in which the previous report is disputed.

Differences with the RAND HRS

Unlike the RAND HRS, disputes of previously reported memory related conditions are not currently incorporated into RwMEMRYE in the Harmonized CHARLS.

CHARLS Variables Used:

```
Wave 1:
    DA007_12_       Memory-Related Disease
Wave 2:
    DA007_12_       have been diagnosed of disease
    DA007_W2_1_12_  verify disease record
    DA007_W2_2_12_  doctor told disease
    XRTYPE          r interview type
    ZDA007_12_      chronic disease
```

BMI

Wave	Variable	Label	Type
1	R1BMI	r1bmi:w1 body mass index=kg/m2	Cont
1	S1BMI	s1bmi:w1 body mass index=kg/m2	Cont
1	R1HEIGHT	r1height:w1 height in meters	Cont
1	S1HEIGHT	s1height:w1 height in meters	Cont
1	R1WEIGHT	r1weight:w1 weight in kilograms	Cont
1	S1WEIGHT	s1weight:w1 weight in kilograms	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1BMI	13617	23.47	3.94	9.52	63.05
S1BMI	11593	23.60	3.90	9.52	63.05
R1HEIGHT	13684	1.58	0.09	1.08	1.87
S1HEIGHT	11638	1.59	0.08	1.08	1.87
R1WEIGHT	13725	58.80	11.83	21.10	162.00
S1WEIGHT	11677	59.50	11.69	21.10	162.00

How Constructed:

RwHEIGHT, RwWEIGHT, and RwBMI are the respondent's measured height, measured weight, and calculated body mass index, respectively.

Height is given in meters, weight in kilograms, and bmi is weight divided by the square of height. If the height value is between 1 and 2, height is assumed to be given in meters. If the height value is between 100 and 200, height is assumed to be given in centimeters. RwHEIGHT is set to special missing value .i if the height value is greater than 2 but less than 100 as it is considered an invalid measurement. RwWEIGHT is set to special missing value .i if the weight value is 20 or less as it is considered an invalid measurement. Don't know, missing, or refused values of RwHEIGHT, RwWEIGHT, and RwBMI are assigned special missing codes .d, .m, .r, respectively. RwHEIGHT, RwWEIGHT, and RwBMI are set to plain missing (.) for respondents who did not respond to this wave.

SwHEIGHT, SwWEIGHT, and SwBMI are taken directly from the spouse's measures in RwHEIGHT, RwWEIGHT, and RwBMI. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Wave 2 biomarker file has not yet been released.

Differences with the RAND HRS

Unlike the CHARLS, the HRS respondents are asked to self-report their height and weight. In the CHARLS height and weight are measured by the interviewer.

CHARLS Variables Used:

```
Wave 1:
    QI002           height
    QL002           Weight  Measuremen
```

Health behaviors: Physical Activity or Exercise

Wave	Variable	Label	Type
1	R1VGACT_C	r1vgact_c:w1 r any vigorous physical activity or exercise at	Categ
2	R2VGACT_C	r2vgact_c:w2 r any vigorous physical activity or exercise at	Categ
1	S1VGACT_C	s1vgact_c:w1 s any vigorous physical activity or exercise at	Categ
2	S2VGACT_C	s2vgact_c:w2 s any vigorous physical activity or exercise at	Categ
1	R1VGACTX_C	r1vgactx_c:w1 r # days/wk vigorous physical activity or exer	Cont
2	R2VGACTX_C	r2vgactx_c:w2 r # days/wk vigorous physical activity or exer	Cont
1	S1VGACTX_C	s1vgactx_c:w1 s # days/wk vigorous physical activity or exer	Cont
2	S2VGACTX_C	s2vgactx_c:w2 s # days/wk vigorous physical activity or exer	Cont
1	R1MDACT_C	r1mdact_c:w1 r any moderate physical activity or exercise at	Categ
2	R2MDACT_C	r2mdact_c:w2 r any moderate physical activity or exercise at	Categ
1	S1MDACT_C	s1mdact_c:w1 s any moderate physical activity or exercise at	Categ
2	S2MDACT_C	s2mdact_c:w2 s any moderate physical activity or exercise at	Categ
1	R1MDACTX_C	r1mdactx_c:w1 r # days/wk moderate physical activity or exer	Cont
2	R2MDACTX_C	r2mdactx_c:w2 r # days/wk moderate physical activity or exer	Cont
1	S1MDACTX_C	s1mdactx_c:w1 s # days/wk moderate physical activity or exer	Cont
2	S2MDACTX_C	s2mdactx_c:w2 s # days/wk moderate physical activity or exer	Cont
1	R1LTACT_C	r1ltact_c:w1 r any light physical activity or exercise at le	Categ
2	R2LTACT_C	r2ltact_c:w2 r any light physical activity or exercise at le	Categ
1	S1LTACT_C	s1ltact_c:w1 s any light physical activity or exercise at le	Categ
2	S2LTACT_C	s2ltact_c:w2 s any light physical activity or exercise at le	Categ
1	R1LTACTX_C	r1ltactx_c:w1 r # days/wk light physical activity or exercis	Cont
2	R2LTACTX_C	r2ltactx_c:w2 r # days/wk light physical activity or exercis	Cont
1	S1LTACTX_C	s1ltactx_c:w1 s # days/wk light physical activity or exercis	Cont
2	S2LTACTX_C	s2ltactx_c:w2 s # days/wk light physical activity or exercis	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1VGACT_C	6918	0.34	0.47	0.00	1.00
R2VGACT_C	6088	0.35	0.48	0.00	1.00
S1VGACT_C	5862	0.36	0.48	0.00	1.00
S2VGACT_C	4974	0.36	0.48	0.00	1.00
R1VGACTX_C	6892	1.96	2.94	0.00	7.00
R2VGACTX_C	6052	1.92	2.90	0.00	7.00
S1VGACTX_C	5842	2.10	3.00	0.00	7.00
S2VGACTX_C	4945	2.01	2.94	0.00	7.00
R1MDACT_C	6914	0.56	0.50	0.00	1.00
R2MDACT_C	6079	0.55	0.50	0.00	1.00
S1MDACT_C	5859	0.59	0.49	0.00	1.00
S2MDACT_C	4965	0.56	0.50	0.00	1.00

```
R1MDACTX_C        6886            3.48            3.30            0.00            7.00
R2MDACTX_C        6048            3.22            3.25            0.00            7.00

S1MDACTX_C        5836            3.64            3.29            0.00            7.00
S2MDACTX_C        4941            3.31            3.25            0.00            7.00

R1LTACT_C         6899            0.80            0.40            0.00            1.00
R2LTACT_C         6075            0.80            0.40            0.00            1.00

S1LTACT_C         5847            0.80            0.40            0.00            1.00
S2LTACT_C         4966            0.80            0.40            0.00            1.00

R1LTACTX_C        6863            5.25            2.87            0.00            7.00
R2LTACTX_C        6025            5.13            2.88            0.00            7.00

S1LTACTX_C        5820            5.28            2.86            0.00            7.00
S2LTACTX_C        4924            5.15            2.87            0.00            7.00
```

Categorical Variable Codes

```
Value-------------------------------|   R1VGACT_C      R2VGACT_C
.d:dk                               |        1
.m:missing                          |    10785          12519
.r:refuse                           |        1
0.no                                |     4557           3966
1.yes                               |     2361           2122

Value-------------------------------|   S1VGACT_C      S2VGACT_C
.m:missing                          |     9026           9845
.r:refuse                           |        1
.u:unmar                            |     2278           2426
.v:sp nr                            |      538           1360
0.no                                |     3736           3164
1.yes                               |     2126           1810

Value-------------------------------|   R1MDACT_C      R2MDACT_C
.d:dk                               |        2
.m:missing                          |    10788          12528
.r:refuse                           |        1
0.no                                |     3030           2752
1.yes                               |     3884           3327

Value-------------------------------|   S1MDACT_C      S2MDACT_C
.m:missing                          |     9029           9854
.r:refuse                           |        1
.u:unmar                            |     2278           2426
.v:sp nr                            |      538           1360
0.no                                |     2429           2179
1.yes                               |     3430           2786

Value-------------------------------|   R1LTACT_C      R2LTACT_C
.d:dk                               |        9
.m:missing                          |    10796          12532
.r:refuse                           |        1
0.no                                |     1404           1233
1.yes                               |     5495           4842

Value-------------------------------|   S1LTACT_C      S2LTACT_C
.d:dk                               |        8
.m:missing                          |     9033           9853
.r:refuse                           |        1
```

.u:unmar		2278	2426
.v:sp nr		538	1360
0.no		1182	1000
1.yes		4665	3966

How Constructed:

RwVGACT_C, RwMDACT_C, and RwLTACT_C indicate whether respondent has any vigorous, moderately energetic, or mildly energetic physical activity at least 10 minutes every week, respectively. A code of 1 indicates the respondent reported taking part in the given level of physical activity more than 10 minutes a week. A code of 0 indicates the respondent reported could not take part in the given level of physical activity more than 10 minutes a week. These questions were only asked to a random subsample of half the sample. Don't know, missing, or refused values of RwVGACT_C, RwMDACT_C, and RwLTACT_C are assigned special missing codes .d, .m, .r, respectively. RwVGACT_C, RwMDACT_C, and RwLTACT_C are set to plain missing (.) for respondents who did not respond to this wave.

RwVGACTX_C, RwMDACTX_C, and RwLTACTX_C indicate number of days of vigorous, moderately energetic, or mildly energetic physical activity at least 10 minutes every week, respectively. If the respondent reported doing less than 10 minutes of the specific level of physical activity per week, RwVGACTX_C, RwMDACTX_C, and RwLTACTX_C are set to 0, for 0 days a week. These questions were only asked to a random subsample of half the sample. Don't know, or refused values of these variables are assigned special missing codes .d, .r, respectively. RwVGACTX_C, RwMDACTX_C, and RwLTACTX_C are set to plain missing (.) for respondents who did not respond to this wave.

SwVGACT_C, SwMDACT_C, SwLTACT_C, SwVGACTX_C, SwMDACTX_C, and SwLTACTX_C indicate the respondent's spouse's frequency of the given levels of physical activity and are taken directly from spouse's responses. In addition to the special missing codes .d and .r, these variables employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

The HRS asks the frequency and time of physical or exercise in last 12 months. Unlike the HRS, the CHARLS only asks whether the respondent take vigorous, moderate or light physical activity or exercise at least 10 minutes every week and number of days he/she exercises if any. CHARLS also only asks these questions to a random subsample of half the sample.

CHARLS Variables Used:

```
    DA051_1_        Y/N Do Vigorous Activities At Least 10 Minutes Continuou
    DA051_2_        Y/N Do Moderate Physical Effort At Least 10 Minutes Cont
    DA051_3_        Y/N Walking At Least 10 Minutes Continuously
    DA052_1_        Days Do Vigorous Activities At Least 10 Minutes Continuo
    DA052_2_        Days Do Moderate Physical Effort At Least 10 Minutes Con
    DA052_3_        Days Walking At Least 10 Minutes Continuously
Wave 2:
    DA051_1_        do at least 10 minutes continuously
    DA051_2_        do at least 10 minutes continuously
    DA051_3_        do at least 10 minutes continuously
    DA052_1_        days
    DA052_2_        days
    DA052_3_        days
```

Health behaviors: Drinking

Wave	Variable	Label	Type
1	R1DRINK	r1drink:w1 r ever drinks any alcohol before	Categ
2	R2DRINK	r2drink:w2 r ever drinks any alcohol before	Categ
1	S1DRINK	s1drink:w1 s ever drinks any alcohol before	Categ
2	S2DRINK	s2drink:w2 s ever drinks any alcohol before	Categ
1	R1DRINKL	r1drinkl:w1 r ever drinks any alcohol last year	Categ
2	R2DRINKL	r2drinkl:w2 r ever drinks any alcohol last year	Categ
1	S1DRINKL	s1drinkl:w1 s ever drinks any alcohol last year	Categ
2	S2DRINKL	s2drinkl:w2 s ever drinks any alcohol last year	Categ
1	R1DRINKX	r1drinkx:w1 r frequency of drinking last year	Categ
2	R2DRINKX	r2drinkx:w2 r frequency of drinking last year	Categ
1	S1DRINKX	s1drinkx:w1 s frequency of drinking last year	Categ
2	S2DRINKX	s2drinkx:w2 s frequency of drinking last year	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRINK	17539	0.39	0.49	0.00	1.00
R2DRINK	18361	0.45	0.50	0.00	1.00
S1DRINK	14819	0.40	0.49	0.00	1.00
S2DRINK	14707	0.46	0.50	0.00	1.00
R1DRINKL	17550	0.33	0.47	0.00	1.00
R2DRINKL	18371	0.34	0.48	0.00	1.00
S1DRINKL	14827	0.34	0.47	0.00	1.00
S2DRINKL	14713	0.36	0.48	0.00	1.00
R1DRINKX	16333	0.57	1.29	0.00	4.00
R2DRINKX	18327	0.78	1.45	0.00	4.00
S1DRINKX	13748	0.60	1.31	0.00	4.00
S2DRINKX	14676	0.82	1.47	0.00	4.00

Categorical Variable Codes

Value	R1DRINK	R2DRINK
.d:dk	12	
.m:missing	154	249
0.none	10716	10106
1.yes	6823	8255

Value	S1DRINK	S2DRINK
.d:dk	9	
.m:missing	61	112
.u:unmar	2278	2426
.v:sp nr	538	1360
0.none	8866	7934
1.yes	5953	6773

```
Value---------------------------------|   R1DRINKL     R2DRINKL
.d:dk                                 |        10
.m:missing                            |       144          239
.r:refuse                             |         1
0.none                                |     11783        12050
1.yes                                 |      5767         6321

Value---------------------------------|   S1DRINKL     S2DRINKL
.d:dk                                 |         8
.m:missing                            |        53          106
.r:refuse                             |         1
.u:unmar                              |      2278         2426
.v:sp nr                              |       538         1360
0.none                                |      9755         9474
1.yes                                 |      5072         5239

Value---------------------------------|   R1DRINKX     R2DRINKX
.d:dk                                 |        29
.m:missing                            |      1341          283
.r:refuse                             |         2
0.none or less than once a month      |     13157        13501
1.one to several times a month        |       606          963
2.one to several times a week         |       675          956
3.most days of the week               |       158          222
4.every day of the week               |      1737         2685

Value---------------------------------|   S1DRINKX     S2DRINKX
.d:dk                                 |        26
.m:missing                            |      1113          143
.r:refuse                             |         2
.u:unmar                              |      2278         2426
.v:sp nr                              |       538         1360
0.none or less than once a month      |     10952        10626
1.one to several times a month        |       529          812
2.one to several times a week         |       602          806
3.most days of the week               |       138          187
4.every day of the week               |      1527         2245
```

How Constructed:

RwDRINK indicates whether respondent has drank alcoholic beverages in the past. A code
of 0 indicates that the respondent reports never had an alcoholic drink in the past. A
code of 1 indicates that the respondent reports having had an alcoholic drink during
the past.

RwDRINKL indicates whether the respondent has had an alcoholic drink during the last
12 months. A code of 0 indicates that the respondent reports not having any alcoholic
drink during the last 12 months. A code of 1 indicates that the respondent reports
having had an alcoholic drink during the last 12 months.

Don't know, or refused values of RwDRINK and RwDRINKL are assigned special missing
values .d, .r, respectively. RwDRINK and RwDRINKL are set to plain missing (.) for
respondents who did not respond to this wave.

The frequency of drinking questions in the CHARLS are surveyed by asking the
respondent about their use of three different types of alcohol separately. Those three
types of alcohol are liquor, beer, wine or rice wine. For each type of alcohol the
respondent is asked how often they drank the particular alcohol during the past year.
Drinking frequency is surveyed by the categories: "once a month", "2-3 times a month",
"once a week", "2-3 times a week", "4-6 times a week", "once a day", "twice a day",
and "more than twice a day."

RwDRINKX is the highest frequency of drinking behavior during the last year that the respondent reports for any one of the three types of alcohol. RwDRINKX is defined as "0.none or less than once a month", "1.one to several times a month" as from "once a month" or "2-3 times a month", "2.one to several times a week" as from "once a week" or "1-2 times a week", "3.Most days of the week" as from "4-6 times a week", and "4.Every day of the week" as from "once a day" or "twice a day", or "more than twice a day". Don't know, or refused values of RwDRINKX is assigned special missing values .d, .r, respectively. RwDRINKX is set to plain missing (.) for respondents who did not respond to this wave.

SwDRINK, SwDRINKL and SwDRINKX indicates whether the respondent's spouse has drank alcoholic beverages in the past and are taken directly from the spouse's values to RwDRINK, RwDRINKL and RwDRINKX. In addition to the special missing codes used in RwDRINK, RwDRINKL and RwDRINKX, SwDRINK, SwDRINKL and SwDRINKX employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Unlike the HRS, the CHARLS asks the respondent's drinking behavior in longer time period (1 year).

Unlike the HRS, the CHARLS asks about the frequency of drinks consumed, not the number of days of drinking. The frequency of drinks consumed questions were asked about three different types of alcohol separately.

Also the CHARLS has different list of alcoholic drink for respondent to select due to the fact that some types of alcoholic drinks are common in China but not in the other country. For example, white liquor and liang of liquor.

CHARLS Variables Used:

```
Wave 1:
    DA067         Did You Drink Any Alcoholic Beverages Last Year
    DA068S1       Did You Drink Liqor
    DA068S2       Did You Drink Beer
    DA068S3       Did You Drink Wine
    DA069         Did You Drink Alcoholic Beverages Ever
    DA072         The Frequency for Drink Liquor
    DA074         How Many Times Per Month Did You Drink Beer LY
    DA076         How Often Did You Drink Wine Per Month LY
Wave 2:
    DA067         drink
    DA068S1       drink
    DA068S2       drink
    DA068S3       drink
    DA069         ever drink alcoholic beverages
    DA072         drink liquor frequency
    DA074         beer
    DA076         wine or rice wine
```

Health behaviors: Smoking (cigarettes)

Wave	Variable	Label	Type
1	R1SMOKEV	r1smokev:w1 r smoke ever	Categ
2	R2SMOKEV	r2smokev:w2 r smoke ever	Categ
1	S1SMOKEV	s1smokev:w1 s smoke ever	Categ
2	S2SMOKEV	s2smokev:w2 s smoke ever	Categ
1	R1SMOKEN	r1smoken:w1 r smoke now	Categ
2	R2SMOKEN	r2smoken:w2 r smoke now	Categ
1	S1SMOKEN	s1smoken:w1 s smoke now	Categ
2	S2SMOKEN	s2smoken:w2 s smoke now	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SMOKEV	17557	0.39	0.49	0.00	1.00
R2SMOKEV	18407	0.42	0.49	0.00	1.00
S1SMOKEV	14832	0.41	0.49	0.00	1.00
S2SMOKEV	14736	0.44	0.50	0.00	1.00
R1SMOKEN	16905	0.29	0.45	0.00	1.00
R2SMOKEN	14937	0.20	0.40	0.00	1.00
S1SMOKEN	14248	0.30	0.46	0.00	1.00
S2SMOKEN	11787	0.20	0.40	0.00	1.00

Categorical Variable Codes

Value	R1SMOKEV	R2SMOKEV
.d:dk	4	
.m:missing	143	203
.r:refuse	1	
0.no	10626	10610
1.yes	6931	7797

Value	S1SMOKEV	S2SMOKEV
.d:dk	3	
.m:missing	53	83
.r:refuse	1	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	8825	8314
1.yes	6007	6422

Value	R1SMOKEN	R2SMOKEN
.m:missing	800	3672
0.no	12034	11943
1.yes	4871	2994

Value	S1SMOKEN	S2SMOKEN
.m:missing	641	3032
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	10030	9376

1.yes | 4218   2411

How Constructed:

RwSMOKEV indicates whether the respondent reports ever smoked. Smoking including
chewed tobacco, smoked a pipe, self-rolled cigarettes, cigarettes and cigars. A code
of 0 indicates that the respondent reports never having smoked. A code of 1 indicates
that the respondent reports ever smoked.

RwSMOKEN indicates the respondent's current smoking habit. This question is only asked
if the respondent reports ever smoked. If the respondent reported never smoking
RwSMOKEN is assigned a value of 0. A code of 0 indicates that the respondent reports
quit smoking. A code of 1 indicates that the respondent reports still smoking
nowadays.

Don't know, missing, or refused values of RwSMOKEV and RwSMOKEN are assigned special
missing codes .d, .m, .r, respectively. RwSMOKEV and RwSMOKEN are set to plain missing
(.) for respondents who did not respond to this wave.

SwSMOKEV and SwSMOKEN indicate whether the respondent's spouse reports their ever or
current smoking habit and is taken directly from the spouse's responses to RwSMOKEV
and RwSMOKEN. In addition to the special missing codes used in RwSMOKEV and RwSMKOEN,
SwSMOKEV and SwSMOKEN employ two other missing codes, .u and .v. Special missing value
.u is used when the respondent does not report being coupled in the current wave.
Special missing value .v is used when the respondent reports being coupled in the
current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Starting in Wave 2, re-interview respondents who previously reported never smoking
were re-asked whether they have ever smoked and if they answered yes, they are asked
if they still have the habit. Re-interview respondents who previously reported having
had smoked were asked only if they still have the habit.

In Wave 2 there are a large number of respondents who previously reported they smoked
who were not then asked if they still have the habit. As if it not possible to
determine whether the respondent is currently smoking, these cases are coded as .m
missing.

CHARLS Variables Used:

```
Wave 1:
    DA059          Smoke or Not
    DA061          Still Smoking or Not
Wave 2:
    DA059          smoke
    DA061          still smoke or quit
    XRTYPE         r interview type
    ZDA059         smoke
```

Section C: Health Care Utilization and Insurance

Medical Care Utilization: Inpatient/Hospital Stay

Wave	Variable	Label	Type
1	R1HOSP1Y	r1hosp1y:w1 r hospital stay last year	Categ
2	R2HOSP1Y	r2hosp1y:w2 r hospital stay last year	Categ
1	S1HOSP1Y	s1hosp1y:w1 s hospital stay last year	Categ
2	S2HOSP1Y	s2hosp1y:w2 s hospital stay last year	Categ
1	R1HSPTIM1Y	r1hsptim1y:w1 r # hosp stays last year	Cont
2	R2HSPTIM1Y	r2hsptim1y:w2 r # hosp stays last year	Cont
1	S1HSPTIM1Y	s1hsptim1y:w1 s # hosp stays last year	Cont
2	S2HSPTIM1Y	s2hsptim1y:w2 s # hosp stays last year	Cont
1	R1HSPNITE	r1hspnite:w1 r # hosp nights last episode	Cont
2	R2HSPNITE	r2hspnite:w2 r # hosp nights last episode	Cont
1	S1HSPNITE	s1hspnite:w1 s # hosp nights last episode	Cont
2	S2HSPNITE	s2hspnite:w2 s # hosp nights last episode	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HOSP1Y	17510	0.09	0.29	0.00	1.00
R2HOSP1Y	18385	0.14	0.34	0.00	1.00
S1HOSP1Y	14808	0.09	0.29	0.00	1.00
S2HOSP1Y	14736	0.13	0.34	0.00	1.00
R1HSPTIM1Y	17506	0.13	0.57	0.00	20.00
R2HSPTIM1Y	18368	0.21	0.70	0.00	18.00
S1HSPTIM1Y	14806	0.13	0.53	0.00	16.00
S2HSPTIM1Y	14724	0.20	0.70	0.00	18.00
R1HSPNITE	17464	1.10	4.68	0.00	120.00
R2HSPNITE	18279	1.67	7.15	0.00	365.00
S1HSPNITE	14774	1.08	4.58	0.00	120.00
S2HSPNITE	14657	1.62	6.96	0.00	365.00

Categorical Variable Codes

Value	R1HOSP1Y	R2HOSP1Y
.d:dk	19	
.m:missing	175	216
.p:proxy		6
.r:refuse	2	
0.no	15856	15869
1.yes	1654	2516

Value	S1HOSP1Y	S2HOSP1Y
.d:dk	18	
.m:missing	63	81
.p:proxy		2
.u:unmar	2278	2426
.v:sp nr	538	1360

```
0.no                                    |        13422       12790
1.yes                                   |         1386        1946
```

How Constructed:

RwHOSP1Y indicates whether the respondent reports any overnight hospital stay and
received inpatient care in the past year. Respondents who report not receiving any
inpatient care are coded as 0. Respondents who have received inpatient care in the
past year are coded as 1. RwHSPTIM1Y indicates the number of times that the respondent
has received inpatient care in the past year. Don't know, refused, or other missing
responses of RwHOSP1Y and RwHSPTIM1Y are assigned to special missing codes .d, .r, .m
respectively. RwHOSP1Y and RwHSPTIM1Y are set to special missing (.p) for respondents
who did not respond to the question due to proxy interview. RwHOSP1Y and RwHSPTIM1Y
are set to plain missing (.) for respondents who did not respond to the current wave.

RwHSPNITE indicates the number of nights that the respondent was hospitalized during
the most recent hospital stay (last episode) in the past year. Don't know, refused,
or other missing responses of RwHSPNITE are assigned to special missing codes .d, .r,
.m respectively. RwHSPNITE is set to special missing (.p) for respondents who did not
respond to the question due to proxy interview. RwHSPNITE is set to plain missing (.)
for respondents who did not respond to the current wave.

SwHOSP1Y, SwHSPTIM1Y, and SwHSPNITE are the current wave respondent's spouse's
information related to the hospital stay in the past year. SwHOSP1Y, SwHSPTIM1Y, and
SwHSPNITE employ two other missing codes, .u and .v. Special missing value .u is used
when the respondent does not report being coupled in the current wave. Special missing
value .v is used when the respondent reports being coupled in the current wave but
their spouse is not interviewed.

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their hospital utilization in the
previous two year, the CHARLS asks the respondents about their last year hospital
utilization.

The CHARLS only asks the numbers of nights stay for the most recent hospitalization
(last episode) in the last year; not the total numbers of nights stay in the last
year.

CHARLS Variables Used:

```
Wave 1:
    EE003       Have You Received Inpatient Care LY
    EE004       How Many Times Have You Received Inpatient Care LY
    EE016       Nights of Hospitalized There
    EF006       Respondent Receive Assistance In Answering Section D
Wave 2:
    EE003       whether received inpatient care
    EE004       times of inpatient care
    EE016       time of hospitalized there
    EF006       how often did the respondent receive assistance
```

Medical Care Utilization: Outpatient/ doctor visit

Wave	Variable	Label	Type
1	R1DOCTOR1M	r1doctor1m:w1 r doctor visit/outpatient last month	Categ
2	R2DOCTOR1M	r2doctor1m:w2 r doctor visit/outpatient last month	Categ
1	S1DOCTOR1M	s1doctor1m:w1 s doctor visit/outpatient last month	Categ
2	S2DOCTOR1M	s2doctor1m:w2 s doctor visit/outpatient last month	Categ
1	R1DOCTIM1M	r1doctim1m:w1 r # doctor visit/outpatient last month	Cont
2	R2DOCTIM1M	r2doctim1m:w2 r # doctor visit/outpatient last month	Cont
1	S1DOCTIM1M	s1doctim1m:w1 s # doctor visit/outpatient last month	Cont
2	S2DOCTIM1M	s2doctim1m:w2 s # doctor visit/outpatient last month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DOCTOR1M	17422	0.19	0.39	0.00	1.00
R2DOCTOR1M	18330	0.22	0.41	0.00	1.00
S1DOCTOR1M	14729	0.19	0.39	0.00	1.00
S2DOCTOR1M	14690	0.21	0.41	0.00	1.00
R1DOCTIM1M	17328	0.42	1.39	0.00	30.00
R2DOCTIM1M	18220	0.52	1.62	0.00	30.00
S1DOCTIM1M	14656	0.42	1.38	0.00	30.00
S2DOCTIM1M	14613	0.50	1.60	0.00	30.00

Categorical Variable Codes

Value	R1DOCTOR1M	R2DOCTOR1M
.d:dk	83	
.m:missing	197	262
.p:proxy		15
.r:refuse	4	
0.no	14055	14343
1.yes	3367	3987

Value	S1DOCTOR1M	S2DOCTOR1M
.d:dk	75	
.m:missing	83	118
.p:proxy		11
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	11911	11579
1.yes	2818	3111

How Constructed:

RwDOCTOR1M indicates whether the respondent reports any doctor visit at a facilities
or visits by a health worker or a doctor at home in the last month. A code 0 indicates
the respondent did not have a doctor visit at a facilities nor was visited by a health
worker or a doctor at home in the last month. A code 1 indicates the respondent had a

doctor visit at a facilities or was visited by a health worker or a doctor at home in the last month.

RwDOCTIM1M indicates the number of visits to any of the above facility that the respondents had during last month.

These are the list of the facilities that were asked to the respondents:

      1. General hospital

      2. Specialized hospital

      3. Chinese medicine hospital

      4. Community healthcare center

      5. Township Hospital

      6. Health care post

      7. Village clinic/private clinic

      8. Other

Don't know, refused, or other missing responses of RwDOCTOR1M and RwDOCTIM1M are assigned to special missing codes .d, .r, .m respectively. RwDOCTOR1M and RwDOCTIM1M are set to special missing (.p) for respondents who did not respond to the question due to proxy interview. RwDOCTOR1M and RwDOCTIM1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwDOCTOR1M and SwDOCTIM1M are the current wave respondent's spouse's information about the doctor visit in the last month. SwDOCTOR1M and SwDOCTIM1M employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their detail of doctor visit in previous two year, the CHARLS only asks the respondents about their last month doctor visit.

CHARLS Variables Used:

```
Wave 1:
    ED001          Visited Hospital Last Month
    ED004S1        Have Visited General Hospital
    ED005_1_       How Many Times did You Visit the Medical Facility
    ED005_2_       How Many Times did You Visit the Medical Facility
    ED005_3_       How Many Times did You Visit the Medical Facility
    ED005_4_       How Many Times did You Visit the Medical Facility
    ED005_5_       How Many Times did You Visit the Medical Facility
    ED005_6_       How Many Times did You Visit the Medical Facility
    ED005_7_       How Many Times did You Visit the Medical Facility
    EF006          Respondent Receive Assistance In Answering Section D
Wave 2:
    ED001          visited hospital last month
    ED005_1_       times visit / been visited by hospital corresponding to
```

```
ED005_2_        times visit / been visited by hospital corresponding to
ED005_3_        times visit / been visited by hospital corresponding to
ED005_4_        times visit / been visited by hospital corresponding to
ED005_5_        times visit / been visited by hospital corresponding to
ED005_6_        times visit / been visited by hospital corresponding to
ED005_7_        times visit / been visited by hospital corresponding to
EF006           how often did the respondent receive assistance
```

Medical Care Utilization: Dental visit

Wave	Variable	Label	Type
2	R2DENTST1Y	r2dentst1y:w2 r dental care last year	Categ
2	S2DENTST1Y	s2dentst1y:w2 s dental care last year	Categ
2	R2DENTIM1Y	r2dentim1y:w2 r # dental visit last year	Cont
2	S2DENTIM1Y	s2dentim1y:w2 s # dental visit last year	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2DENTST1Y	18358	0.17	0.38	0.00	1.00
S2DENTST1Y	14718	0.17	0.38	0.00	1.00
R2DENTIM1Y	18279	0.44	1.74	0.00	100.00
S2DENTIM1Y	14665	0.43	1.73	0.00	100.00

Categorical Variable Codes

```
Value--------------------------------|            R2DENTST1Y
.m:missing                           |                   249
0.no                                 |                 15231
1.yes                                |                  3127

Value--------------------------------|            S2DENTST1Y
.m:missing                           |                   101
.u:unmar                             |                  2426
.v:sp nr                             |                  1360
0.no                                 |                 12212
1.yes                                |                  2506
```

How Constructed:

RwDENTST1Y indicates whether the respondent has seen a dentist for dental care
including dentures in the past year. A code 0 indicates the respondent did not receive
dental care in the past year. A code 1 indicates the respondent had seen a dentist for
dental care, including dentures. RwDENTIM1Y indicates the number of dental visits in
the past year. Don't know, refused, or other missing responses of RwDENTST1Y and
RwDENTIM1Y are assigned to special missing codes .d, .r, .m respectively. RwDENTST1Y
and RwDENTIM1Y are set to special missing (.p) for respondents who did not respond to
the question due to proxy interview. RwDENTST1Y and RwDENTIM1Y are set to plain
missing (.) for respondents who did not respond to the current wave.

SwDENTST1Y and SwDENTIM1Y provide the information for the respondent's spouse or
partner. SwDENTST1Y and SwDENTIM1Y employ two other missing codes, .u and .v. Special
missing value .u is used when the respondent does not report being coupled in the
current wave. Special missing value .v is used when the respondent reports being
coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Questions related to dental care and a dentist visit only are asked starting in wave 2 questionnaire.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their detail of dental visit in previous two year, the CHARLS only asks the respondents about their last year dental visit.

CHARLS Variables Used:

```
EF006        how often did the respondent receive assistance
EH001        have dentist for dental care
EH002        times of  dental care
```

Medical Expenditure: hospitalization in the past year

Wave	Variable	Label	Type
1	R1OOPHOS1Y	r1oophos1y:w1 r hospitalization out-of-pocket expenditure la	Cont
2	R2OOPHOS1Y	r2oophos1y:w2 r hospitalization out-of-pocket expenditure la	Cont
1	S1OOPHOS1Y	s1oophos1y:w1 s hospitalization out-of-pocket expenditure la	Cont
2	S2OOPHOS1Y	s2oophos1y:w2 s hospitalization out-of-pocket expenditure la	Cont
1	R1TOTHOS1Y	r1tothos1y:w1 r hospitalization total expenditure last year	Cont
2	R2TOTHOS1Y	r2tothos1y:w2 r hospitalization total expenditure last year	Cont
1	S1TOTHOS1Y	s1tothos1y:w1 s hospitalization total expenditure last year	Cont
2	S2TOTHOS1Y	s2tothos1y:w2 s hospitalization total expenditure last year	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1OOPHOS1Y	16195	157.90	2279.64	0.00	140000.00
R2OOPHOS1Y	16571	335.20	3320.40	0.00	150000.00
S1OOPHOS1Y	13705	168.57	2441.81	0.00	140000.00
S2OOPHOS1Y	13341	356.08	3557.49	0.00	150000.00
R1TOTHOS1Y	17375	768.78	5011.52	0.00	160000.00
R2TOTHOS1Y	18085	1464.98	8965.43	0.00	500000.00
S1TOTHOS1Y	14703	775.43	5037.64	0.00	160000.00
S2TOTHOS1Y	14518	1508.74	9556.65	0.00	500000.00

How Constructed:

RwOOPHOS1Y is the value of out-of-pocket hospitalization expenditure for the respondent in the past year. RwOOPHOS1Y includes the fees paid to the hospital but excludes the wages paid to a hired nurses, transportation costs, and accommodation costs for respondent and family members. RwTOTHOS1Y is the value of total hospitalization expenditure for the respondent in the past year, including the amount that insurance company paid. This variable has the same component as RwOOPHOS1Y that is including the fees paid to the hospital but excludes the wages paid to a hired nurses, transportation costs, and accommodation costs for respondent and family members.

Don't know, refused, or other missing responses of RwOOPHOS1Y and RwTOTHOS1Y are assigned to special missing codes .d, .r, .m respectively. RwOOPHOS1Y and RwTOTHOS1Y are set to special missing (.p) for respondents who did not respond to the question due to proxy interview. RwTOTHOS1Y is set to plain missing (.) for respondents who did not respond to the current wave.

SwOOPHOS1Y and SwTOTHOS1Y is the current wave respondent's spouse's information about the hospital expenditure in the past year. SwOOPHOS1Y and SwTOTHOS1Y employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their hospitalization expenditure in
last two year, the CHARLS only asks the respondents about their last year
hospitalization expenditure. Moreover, the RAND HRS only provides a summary of out-of-
pocket expenditure and a summary total medical expenditures, component values for
hospitalization and doctor visits are not included.

CHARLS Variables Used:

```
Wave 1:
    EE003        Have You Received Inpatient Care LY
    EE004        How Many Times Have You Received Inpatient Care LY
    EE005        Cost/No Cost of the Hospitalizations
    EE005_1      The Amount of Total Cost of the Hospitalizations
    EE006        Y/N Have Self Payment of Cost of the Hospitalizations
    EE006_1      The Amount of Self Payment of Total Cost of the Hospital
    EE016        Nights of Hospitalized There
    EE027        Total Pay Out of Pocket for Cost of Hospitalization/No C
    EE027_1      The Amount of Total Pay Out of Pocket for Cost of Hospit
    EF006        Respondent Receive Assistance In Answering Section D
Wave 2:
    EE003        whether received inpatient care
    EE004        times of inpatient care
    EE005        total cost
    EE005_1      total cost
    EE006        total cost
    EE006_1      self-paid part
    EE016        time of hospitalized there
    EE024_1      the amount of total medical cost for hospitalization
    EE027        total pay out of pocket for cost of hospitalization/no c
    EE027_1      the amount of total pay out of pocket for cost of hospit
    EF006        how often did the respondent receive assistance
```

Medical Expenditure: doctor visit in the last month

```
Wave Variable      Label                                                    Type

  1  R1OOPDOC1M    r1oopdoc1m:w1 r doctor visit out-of-pocket expenditure last   Cont
  2  R2OOPDOC1M    r2oopdoc1m:w2 r doctor visit out-of-pocket expenditure last   Cont

  1  S1OOPDOC1M    s1oopdoc1m:w1 s doctor visit out-of-pocket expenditure last   Cont
  2  S2OOPDOC1M    s2oopdoc1m:w2 s doctor visit out-of-pocket expenditure last   Cont

  1  R1TOTDOC1M    r1totdoc1m:w1 r doctor visit total expenditure last month     Cont
  2  R2TOTDOC1M    r2totdoc1m:w2 r doctor visit total expenditure last month     Cont

  1  S1TOTDOC1M    s1totdoc1m:w1 s doctor visit total expenditure last month     Cont
  2  S2TOTDOC1M    s2totdoc1m:w2 s doctor visit total expenditure last month     Cont
```

Descriptive Statistics

```
Variable        N        Mean       Std Dev    Minimum      Maximum

R1OOPDOC1M    16988     113.14      1564.88       0.00    170000.00
R2OOPDOC1M    17784     171.19      1998.62       0.00    160000.00

S1OOPDOC1M    14389     117.21      1675.37       0.00    170000.00
S2OOPDOC1M    14306     172.89      2076.61       0.00    160000.00

R1TOTDOC1M    17084     161.25      1990.86       0.00    200000.00
R2TOTDOC1M    17874     287.05      6437.69       0.00    800000.00

S1TOTDOC1M    14466     166.75      2118.54       0.00    200000.00
S2TOTDOC1M    14369     294.12      7046.52       0.00    800000.00
```

How Constructed:

RwOOPDOC1M is the value of out-of-pocket doctor visit expenditures for the respondent in the last month. RwOOPDOC1M includes the fees paid for treatment, medication costs and prescription drugs. RwTOTDOC1M is the value of total expenditures of the doctor visit for the respondent in the past year, including the amount that insurance company paid. This variable has the same component as RwOOPDOC1M that is including the fees paid for treatment, medication costs and prescription drugs.

Don't know, refused, or other missing responses of RwOOPDOC1M and RwTOTDOC1M are assigned to special missing codes .d, .r, .m respectively. RwOOPDOC1M and RwTOTDOC1M are set to special missing (.p) for respondents who did not respond to the question due to proxy interview. RwOOPDOC1M and RwTOTDOC1M are set to plain missing (.) for respondents who did not respond to the current wave.

SwOOPDOC1M and SwTOTDOC1M is the current wave respondent's spouse's information about the doctor visit expenditure in the last month. SwOOPDOC1M and SwTOTDOC1M employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their doctor visit expenditure in last two year, the CHARLS only asks the respondents about their last month doctor visit expenditure. Moreover, the RAND HRS only provides a summary of out-of-pocket expenditure and a summary total medical expenditures, component values for hospitalization and doctor visits are not included.

CHARLS Variables Used:

```
Wave 1:
    ED001          Visited Hospital Last Month
    ED004S1        Have Visited General Hospital
    ED005_1_       How Many Times did You Visit the Medical Facility
    ED005_2_       How Many Times did You Visit the Medical Facility
    ED005_3_       How Many Times did You Visit the Medical Facility
    ED005_4_       How Many Times did You Visit the Medical Facility
    ED005_5_       How Many Times did You Visit the Medical Facility
    ED005_6_       How Many Times did You Visit the Medical Facility
    ED005_7_       How Many Times did You Visit the Medical Facility
    ED006_1_1_     TOTAL COST
    ED006_1_2_     TOTAL COST
    ED006_1_3_     TOTAL COST
    ED006_1_4_     TOTAL COST
    ED006_1_5_     TOTAL COST
    ED006_1_6_     TOTAL COST
    ED006_1_7_     TOTAL COST
    ED006_1_8_     TOTAL COST
    ED006_1_9_     TOTAL COST
    ED007_1_1_     The Amount of Self Paid Part
    ED007_1_2_     The Amount of Self Paid Part
    ED007_1_3_     The Amount of Self Paid Part
    ED007_1_4_     The Amount of Self Paid Part
    ED007_1_5_     The Amount of Self Paid Part
    ED007_1_6_     The Amount of Self Paid Part
    ED007_1_7_     The Amount of Self Paid Part
    ED007_1_8_     The Amount of Self Paid Part
    ED007_1_9_     The Amount of Self Paid Part
    ED023_1        The Amount of Total Cost of the Hospital Visit
    ED024_1        Self Paid Amount
    EF006          Respondent Receive Assistance In Answering Section D
Wave 2:
    ED001          visited hospital last month
    ED005_1_       times visit / been visited by hospital corresponding to
    ED005_2_       times visit / been visited by hospital corresponding to
    ED005_3_       times visit / been visited by hospital corresponding to
    ED005_4_       times visit / been visited by hospital corresponding to
    ED005_5_       times visit / been visited by hospital corresponding to
    ED005_6_       times visit / been visited by hospital corresponding to
    ED005_7_       times visit / been visited by hospital corresponding to
    ED006_1        total cost
    ED007_1        self-paid part
    ED023_1        money
    ED024_1        money
    EF006          how often did the respondent receive assistance
```

Medical Expenditure: dental visit in the last year

```
Wave Variable        Label                                                    Type

  2  R2OOPDEN1Y      r2oopden1y:w2 r dental care out-of-pocket expenditure last y  Cont

  2  S2OOPDEN1Y      s2oopden1y:w2 s dental care out-of-pocket expenditure last y  Cont

  2  R2TOTDEN1Y      r2totden1y:w2 r dental care total expenditure last year       Cont

  2  S2TOTDEN1Y      s2totden1y:w2 s dental care total expenditure last year       Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R2OOPDEN1Y	18054	87.76	442.02	0.00	15000.00
S2OOPDEN1Y	14491	86.48	432.75	0.00	15000.00
R2TOTDEN1Y	18180	91.81	485.34	0.00	25000.00
S2TOTDEN1Y	14587	90.92	486.82	0.00	25000.00

How Constructed:

RwOOPDEN1Y is the value of out-of-pocket dental care expenditures for the respondent in the last year. The expenditure of the dental care also includes dentures. RwTOTDEN1Y is the value of total expenditure of dental care for the respondent in the past year, including dentures.

Don't know, refused, or other missing responses of RwOOPDEN1Y and RwTOTDEN1Y are assigned to special missing codes .d, .r, .m respectively. RwOOPDEN1Y and RwTOTDEN1Y are set to special missing (.p) for respondents who did not respond to the question due to proxy interview. RwOOPDEN1Y and RwTOTDEN1Y are set to plain missing (.) for respondents who did not respond to the current wave.

SwOOPDEN1Y and SwTOTDEN1Y provide the information for the respondent's spouse or partner. SwOOPDEN1Y and SwTOTDEN1Y employ two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Questions related to dental care and a dentist visit were only asked in wave 2 questionnaire.

Differences with the RAND HRS

Unlike the HRS that ask the respondents about their dental visit expenditure in previous two year, the CHARLS only asks the respondents about their last year dental visit expenditure.

CHARLS Variables Used:

```
    EF006          how often did the respondent receive assistance
    EH003           cost for all the dental care
    EH003_1        cost
    EH004          self-paid part
```

```
EH004_1        cost
```

```
┌─────────────────────────────────────────────────────────────────────────┐
│              Covered by Public Health Insurance Program                    │
└─────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                              Type

  1  R1HIGOV       r1higov:w1 r cover by public health insurance      Categ
  2  R2HIGOV       r2higov:w2 r cover by public health insurance      Categ

  1  S1HIGOV       s1higov:w1 s cover by public health insurance      Categ
  2  S2HIGOV       s2higov:w2 s cover by public health insurance      Categ
```

Descriptive Statistics

```
Variable        N        Mean     Std Dev    Minimum     Maximum

R1HIGOV       17467      0.92      0.27       0.00        1.00
R2HIGOV       18275      0.95      0.21       0.00        1.00

S1HIGOV       14782      0.93      0.26       0.00        1.00
S2HIGOV       14672      0.96      0.20       0.00        1.00
```

Categorical Variable Codes

```
Value-------------------------------|      R1HIGOV      R2HIGOV
.d:dk                               |         63
.m:missing                          |        171         2857
.r:refuse                           |          5
0.no                                |       1385          861
1.public insurance plan             |      16082        17414

Value-------------------------------|      S1HIGOV      S2HIGOV
.d:dk                               |         44
.m:missing                          |         61          147
.r:refuse                           |          2
.u:unmar                            |       2278         2426
.v:sp nr                            |        538         1360
0.no                                |       1057          616
1.public insurance plan             |      13725        14056
```

How Constructed:

RwHIGOV indicates whether the respondent is covered by any public health insurance
program. Here is the list of the health insurance plan:

        1. Urban employee medical insurance(yi-bao)

        2. Urban resident medical insurance

        3. New cooperative medical insurance(he-zuo-yi-liao)

        4. Urban and rural resident medical insurance

        5. Government medical insurance(gong-fei)

        6. Medical aid

        7. Urban non-employed persons's health insurance (Asked only starting in Wave
2)

A code of 0 indicates that the respondent does not covered by any public health insurance plan. A code of 1 indicates that the respondent is covered by at least one type of public health insurance plan. Don't know, refused, or other missing responses of RwHIGOV are assigned special missing codes .d, .r, .m respectively. RwHIGOV is set to plain missing (.) for respondents who did not respond to the current wave.

SwHIGOV indicates whether the respondent's current wave's spouse's s is covered by any public health insurance program. In addition to the special missing codes used in RwHIGOV, SwHIGOV employs two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

In Wave 1 CHARLS used the following list to survey insurance types:

1)   urban employee medical insurance(yi-bao)

2)   urban resident medical insurance

3)   new cooperative medical insurance(he-zuo-yi-liao)

4)   urban and rural resident medical insurance

5)   government medical insurance(gong-fei)

6)   medical aid

7)   private medical insurance: purchased by respondent's union

8)   private medical insurance: purchased by individual

9)   other medical insurance

10)   no insurance

Starting in Wave 2 CHARLS used the following list to survey insurance types:

1)   urban employee medical insurance(yi-bao)

2)   urban resident medical insurance

3)   new cooperative medical insurance(he-zuo-yi-liao)

4)   urban and rural resident medical insurance

5)   government medical insurance(gong-fei)

6)   medical aid

7)   private medical insurance: purchased by respondent's union

8)   private medical insurance: purchased by individual

9)   urban non-employed persons's health insurance

10)   other medical insurance

11)   no insurance

Differences with the RAND HRS

The types of insurance programs which are used to determine RwHIGOV in the CHARLS are different from the insurance programs used to determine RwHIGOV in the RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    EA001S1         Y/N Urban Employee Medical Insurance
    EA001S10        Y/N No Insurance
    EA001S2         Y/N Urban Resident Medical Insurance
    EA001S3         Y/N New Cooperative Medical Insurance
    EA001S4         Y/N Urban and Rural Resident Medical Insurance
    EA001S5         Y/N Government Medical Insurance
    EA001S6         Y/N Medical Aid
    EA001S7         Y/N Private Medical Insurance:Purchased By R's Union
    EA001S8         Y/N Private Medical Insurance:Purchased By Individual
    EA001S9         Y/N Other Medical Insurance
Wave 2:
    EA001S1         are you have any types of health insurance? 1 urban empl
    EA001S10        are you have any types of health insurance? 10 other med
    EA001S11        are you have any types of health insurance? 11 no insura
    EA001S2         are you have any types of health insurance? 2 urban resi
    EA001S3         are you have any types of health insurance? 3 new cooper
    EA001S4         are you have any types of health insurance? 4 urban and
    EA001S5         are you have any types of health insurance? 5 government
    EA001S6         are you have any types of health insurance? 6 medical ai
    EA001S7         are you have any types of health insurance? 7 private me
    EA001S8         are you have any types of health insurance? 8 private me
    EA001S9         are you have any types of health insurance? 9 urban non-
```

Covered by Private Health Insurance Program

Wave	Variable	Label	Type
1	R1HIPRIV	r1hipriv:w1 r cover by private health ins	Categ
2	R2HIPRIV	r2hipriv:w2 r cover by private health ins	Categ
1	S1HIPRIV	s1hipriv:w1 s cover by private health ins	Categ
2	S2HIPRIV	s2hipriv:w2 s cover by private health ins	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIPRIV	17412	0.03	0.16	0.00	1.00
R2HIPRIV	18275	0.02	0.15	0.00	1.00
S1HIPRIV	14738	0.03	0.16	0.00	1.00
S2HIPRIV	14672	0.02	0.15	0.00	1.00

Categorical Variable Codes

Value	R1HIPRIV	R2HIPRIV
.d:dk	63	
.m:missing	226	2857
.r:refuse	5	
0.no	16974	17854
1.private insurance plan	438	421

Value	S1HIPRIV	S2HIPRIV
.d:dk	44	
.m:missing	105	147
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	14361	14329
1.private insurance plan	377	343

How Constructed:

RwHIPRIV indicates whether the respondent is covered by any private health insurance program. Here is the list of the health insurance plan:

    1. Private medical insurance: purchased by respondent's union

    2. Private medical insurance: purchased by individual

A code of 0 indicates that the respondent is not covered by any private health insurance plan. A code of 1 indicates that the respondent is covered by at least one type of private health insurance plan. Don't know, refused, or other missing responses of RwHIPRIV are assigned special missing codes .d, .r, .m respectively. RwHIPRIV is set to plain missing (.) for respondents who did not respond to the current wave.

SwHIPRIV indicates whether the respondent's current wave's spouse's s is covered by any private health insurance program. In addition to the special missing codes used in RwHIPRIV, SwHIPRIV employs two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

```
In Wave 1 CHARLS used the following list to survey insurance types:

11)    urban employee medical insurance(yi-bao)

12)    urban resident medical insurance

13)    new cooperative medical insurance(he-zuo-yi-liao)

14)    urban and rural resident medical insurance

15)    government medical insurance(gong-fei)

16)    medical aid

17)    private medical insurance: purchased by respondent's union

18)    private medical insurance: purchased by individual

19)    other medical insurance

20)    no insurance

Starting in Wave 2 CHARLS used the following list to survey insurance types:

12)    urban employee medical insurance(yi-bao)

13)    urban resident medical insurance

14)    new cooperative medical insurance(he-zuo-yi-liao)

15)    urban and rural resident medical insurance

16)    government medical insurance(gong-fei)

17)    medical aid

18)    private medical insurance: purchased by respondent's union

19)    private medical insurance: purchased by individual

20)    urban non-employed persons's health insurance

21)    other medical insurance

22)    no insurance
```

Differences with the RAND HRS

```
This variable is not available in the RAND HRS.
```

CHARLS Variables Used:

```
Wave 1:
    EA001S1         Y/N Urban Employee Medical Insurance
    EA001S10        Y/N No Insurance
    EA001S2         Y/N Urban Resident Medical Insurance
    EA001S3         Y/N New Cooperative Medical Insurance
    EA001S4         Y/N Urban and Rural Resident Medical Insurance
    EA001S5         Y/N Government Medical Insurance
```

```
    EA001S6          Y/N Medical Aid
    EA001S7          Y/N Private Medical Insurance:Purchased By R's Union
    EA001S8          Y/N Private Medical Insurance:Purchased By Individual
    EA001S9          Y/N Other Medical Insurance
Wave 2:
    EA001S1          are you have any types of health insurance? 1 urban empl
    EA001S10         are you have any types of health insurance? 10 other med
    EA001S11         are you have any types of health insurance? 11 no insura
    EA001S2          are you have any types of health insurance? 2 urban resi
    EA001S3          are you have any types of health insurance? 3 new cooper
    EA001S4          are you have any types of health insurance? 4 urban and
    EA001S5          are you have any types of health insurance? 5 government
    EA001S6          are you have any types of health insurance? 6 medical ai
    EA001S7          are you have any types of health insurance? 7 private me
    EA001S8          are you have any types of health insurance? 8 private me
    EA001S9          are you have any types of health insurance? 9 urban non-
```

Covered by Other Health Insurance Program

Wave	Variable	Label	Type
1	R1HIOTHP	r1hiothp:w1 r cover by other health ins	Categ
2	R2HIOTHP	r2hiothp:w2 r cover by other health ins	Categ
1	S1HIOTHP	s1hiothp:w1 s cover by other health ins	Categ
2	S2HIOTHP	s2hiothp:w2 s cover by other health ins	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1HIOTHP	17467	0.01	0.09	0.00	1.00
R2HIOTHP	18275	0.01	0.09	0.00	1.00
S1HIOTHP	14782	0.01	0.09	0.00	1.00
S2HIOTHP	14672	0.01	0.09	0.00	1.00

Categorical Variable Codes

Value	R1HIOTHP	R2HIOTHP
.d:dk	63	
.m:missing	171	2857
.r:refuse	5	
0.no	17337	18112
1.other insurance plan	130	163

Value	S1HIOTHP	S2HIOTHP
.d:dk	44	
.m:missing	61	147
.r:refuse	2	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	14667	14545
1.other insurance plan	115	127

How Constructed:

RwHIOTHP indicates whether the respondent is covered by any other health insurance
program. A code of 0 indicates that the respondent is not covered by any other health
insurance plan. A code of 1 indicates that the respondent is covered by other health
insurance plan. Don't know, refused, or other missing responses of RwHIOTHP are
assigned special missing codes .d, .r, .m respectively. RwHIOTHP is set to plain
missing (.) for respondents who did not respond to the current wave.

SwHIOTHP indicates whether the respondent's current wave's spouse's s is covered by
any other health insurance program. In addition to the special missing codes used in
RwHIOTHP, SwHIOTHP employs two other missing codes, .u and .v. A special missing value
.u is used when the respondent does not report being coupled in the current wave. A
special missing value .v is used when the respondent reports being coupled in the
current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

In Wave 1 CHARLS used the following list to survey insurance types:

21)   urban employee medical insurance(yi-bao)

22)   urban resident medical insurance

23)   new cooperative medical insurance(he-zuo-yi-liao)

24)   urban and rural resident medical insurance

25)   government medical insurance(gong-fei)

26)   medical aid

27)   private medical insurance: purchased by respondent's union

28)   private medical insurance: purchased by individual

29)   other medical insurance

30)   no insurance

Starting in Wave 2 CHARLS used the following list to survey insurance types:

23)   urban employee medical insurance(yi-bao)

24)   urban resident medical insurance

25)   new cooperative medical insurance(he-zuo-yi-liao)

26)   urban and rural resident medical insurance

27)   government medical insurance(gong-fei)

28)   medical aid

29)   private medical insurance: purchased by respondent's union

30)   private medical insurance: purchased by individual

31)   urban non-employed persons's health insurance

32)   other medical insurance

33)   no insurance

Differences with the RAND HRS

This variable contains different component than RAND HRS. In the RAND HRS, RwHIOTHP indicates whether the respondent is covered by any health insurance other than government, employer-provided, or long-term care insurance. RwHIOTHP in CHARLS indicates the insurance that is not in the option list; that is, the insurance plan other than urban employee medical insurance(yi-bao), urban resident medical insurance, new cooperative medical insurance(he-zuo-yi-liao), urban and rural resident medical insurance, government medical insurance(gong-fei), medical aid, private medical insurance: purchased by respondent's union and private medical insurance: purchased by individual.

CHARLS Variables Used:

```
Wave 1:
    EA001S1        Y/N Urban Employee Medical Insurance
    EA001S10       Y/N No Insurance
    EA001S2        Y/N Urban Resident Medical Insurance
    EA001S3        Y/N New Cooperative Medical Insurance
```

```
    EA001S4          Y/N Urban and Rural Resident Medical Insurance
    EA001S5          Y/N Government Medical Insurance
    EA001S6          Y/N Medical Aid
    EA001S7          Y/N Private Medical Insurance:Purchased By R's Union
    EA001S8          Y/N Private Medical Insurance:Purchased By Individual
    EA001S9          Y/N Other Medical Insurance
Wave 2:
    EA001S1          are you have any types of health insurance? 1 urban empl
    EA001S10         are you have any types of health insurance? 10 other med
    EA001S11         are you have any types of health insurance? 11 no insura
    EA001S2          are you have any types of health insurance? 2 urban resi
    EA001S3          are you have any types of health insurance? 3 new cooper
    EA001S4          are you have any types of health insurance? 4 urban and
    EA001S5          are you have any types of health insurance? 5 government
    EA001S6          are you have any types of health insurance? 6 medical ai
    EA001S7          are you have any types of health insurance? 7 private me
    EA001S8          are you have any types of health insurance? 8 private me
    EA001S9          are you have any types of health insurance? 9 urban non-
```

Section D: Cognition

Self-reported Memory

Wave	Variable	Label	Type
1	R1SLFMEM	r1slfmem:w1 r self-reported memory	Categ
2	R2SLFMEM	r2slfmem:w2 r self-reported memory	Categ
1	S1SLFMEM	s1slfmem:w1 s self-reported memory	Categ
2	S2SLFMEM	s2slfmem:w2 s self-reported memory	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SLFMEM	16041	4.09	0.86	1.00	5.00
R2SLFMEM	16583	4.08	0.86	1.00	5.00
S1SLFMEM	13536	4.09	0.85	1.00	5.00
S2SLFMEM	13408	4.08	0.85	1.00	5.00

Categorical Variable Codes

Value	R1SLFMEM	R2SLFMEM
.d:dk	18	
.m:missing	4714	1551
.p:proxy	353	476
.r:refuse	6	
1.excellent	78	146
2.very good	871	980
3.good	2244	1688
4.fair	7200	8389
5.poor	5648	5380

Value	S1SLFMEM	S2SLFMEM
.d:dk	12	
.m:missing	1029	1062
.p:proxy	308	349
.r:refuse	4	
.u:unmar	2278	2426
.v:sp nr	538	1360
1.excellent	61	116
2.very good	710	757
3.good	1887	1362
4.fair	6174	6877
5.poor	4704	4296

How Constructed:

RwSLFMEM provides the respondent's self-report of memory using a scale ranging from 1 for excellent to 5 for poor. Don't know, refused, or other missing responses of RwSLFMEM are assigned special missing codes .d, .r, .m respectively. RwSLFMEM is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. RwSLFMEM is set to plain missing (.) for respondents who did not respond to this wave.

SwSLFMEM is the current wave's spouse's self-reported memory score and it taken directly from the spouse's value to RwSLFMEM. In addition to the special missing codes used in RwSLFMEM, SwSLFMEM employs two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the

current wave. A special missing value .v is used when the respondent reports being
coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    DB032          How Often Did the Respondent Receive Assistance
    DC004          Self Comment of Memory
Wave 2:
    DB032          receive assistance
    DC004          self rated memory
```

Immediate Word Recall

Wave	Variable	Label	Type
1	R1IMRC	r1imrc:w1 r immediate word recall	Cont
2	R2IMRC	r2imrc:w2 r immediate word recall	Cont
1	S1IMRC	s1imrc:w1 s immediate word recall	Cont
2	S2IMRC	s2imrc:w2 s immediate word recall	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IMRC	14202	4.08	1.70	0.00	10.00
R2IMRC	16052	4.09	1.74	0.00	10.00
S1IMRC	12120	4.13	1.68	0.00	10.00
S2IMRC	13059	4.16	1.72	0.00	10.00

How Constructed:

The CHARLS included a recall list of 10 different words which were read to a
respondent and then the respondent was asked to recall them immediately and later in
the survey. Respondents were assigned to one of four non-overlapping lists based on
random selection.

RwIMRC counts the amount of words the respondent can immediately recall correctly from
a 10 word list. Respondents were given up to 2 minutes to recall words. Don't know,
refused, or other missing responses of RwIMRC are assigned special missing codes .d,
.r, .m respectively. RwIMRC is set to special missing (.p) if the cognition question
was skipped because the interview was by proxy. RwIMRC is set to plain missing (.) for
respondents who did not respond to this wave.

SwIMRC is the current wave's spouse's immediate word recall score and is taken
directly from the spouse's value to RwIMRC. In addition to the special missing codes
used in RwIMRC, SwIMRC employs two other missing codes, .u and .v. A special missing
value .u is used when the respondent does not report being coupled in the current
wave. A special missing value .v is used when the respondent reports being coupled in
the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the HRS, starting in Wave 3, the word list was randomly assigned which is similar
to the CHARLS.

The word lists in the CHARLS are different from the HRS.

CHARLS Variables Used:

Wave 1:
    DB032   How Often Did the Respondent Receive Assistance
    DC006S1   DISPLAY VIDEO
    DC006S10   DISPLAY VIDEO
    DC006S11   DISPLAY VIDEO
    DC006S2   DISPLAY VIDEO

```
    DC006S3         DISPLAY VIDEO
    DC006S4         DISPLAY VIDEO
    DC006S5         DISPLAY VIDEO
    DC006S6         DISPLAY VIDEO
    DC006S7         DISPLAY VIDEO
    DC006S8         DISPLAY VIDEO
    DC006S9         DISPLAY VIDEO
Wave 2:
    DB032           receive assistance
    DC006_1_S1      recalled words
    DC006_1_S10     recalled words
    DC006_1_S11     recalled words
    DC006_1_S2      recalled words
    DC006_1_S3      recalled words
    DC006_1_S4      recalled words
    DC006_1_S5      recalled words
    DC006_1_S6      recalled words
    DC006_1_S7      recalled words
    DC006_1_S8      recalled words
    DC006_1_S9      recalled words
    DC006_2_S1      recalled words
    DC006_2_S10     recalled words
    DC006_2_S11     recalled words
    DC006_2_S2      recalled words
    DC006_2_S3      recalled words
    DC006_2_S4      recalled words
    DC006_2_S5      recalled words
    DC006_2_S6      recalled words
    DC006_2_S7      recalled words
    DC006_2_S8      recalled words
    DC006_2_S9      recalled words
    DC006_3_S1      recalled words
    DC006_3_S10     recalled words
    DC006_3_S11     recalled words
    DC006_3_S2      recalled words
    DC006_3_S3      recalled words
    DC006_3_S4      recalled words
    DC006_3_S5      recalled words
    DC006_3_S6      recalled words
    DC006_3_S7      recalled words
    DC006_3_S8      recalled words
    DC006_3_S9      recalled words
```

```
                              Delayed Word Recall
```

```
Wave  Variable        Label                                                      Type

   1  R1DLRC          r1dlrc:w1 r delayed word recall                            Cont
   2  R2DLRC          r2dlrc:w2 r delayed word recall                            Cont

   1  S1DLRC          s1dlrc:w1 s delayed word recall                            Cont
   2  S2DLRC          s2dlrc:w2 s delayed word recall                            Cont
```

Descriptive Statistics

```
Variable          N          Mean        Std Dev       Minimum       Maximum

R1DLRC          14081        3.14         1.97          0.00          10.00
R2DLRC          15785        3.19         2.03          0.00          10.00

S1DLRC          12026        3.20         1.96          0.00          10.00
S2DLRC          12861        3.27         2.01          0.00          10.00
```

How Constructed:

```
RwDLRC counts the amount of words the respondent can recall correctly from a 10 word
list after a delay spent answering other survey questions.  Respondents were assigned
to one of four non-overlapping lists based on random selection. Don't know, refused,
or other missing responses of RwDLRC are assigned special missing codes .d, .r, .m
respectively. RwDLRC is set to special missing (.p) if the cognition question was
skipped because the interview was by proxy. RwDLRC is set to plain missing (.) for
respondents who did not respond to this wave.

SwDLRC is the current wave's spouse's delayed word recall score and it taken directly
from the spouse's value to RwDLRC. In addition to the special missing codes used in
RwDLRC, SwDLRC employs two other missing codes, .u and .v. A special missing value .u
is used when the respondent does not report being coupled in the current wave. A
special missing value .v is used when the respondent reports being coupled in the
current wave but their spouse is not interviewed.
```

Cross Wave Differences in CHARLS

```
No differences known.
```

Differences with the RAND HRS

```
In the HRS, starting in Wave 3, the word list was randomly assigned which is similar
to the CHARLS.

The word lists in the CHARLS are different from the HRS.
```

CHARLS Variables Used:

```
Wave 1:
    DB032         How Often Did the Respondent Receive Assistance
    DC027S1       Recall Words
    DC027S10      Recall Words
    DC027S11      Recall Words
    DC027S2       Recall Words
    DC027S3       Recall Words
    DC027S4       Recall Words
    DC027S5       Recall Words
    DC027S6       Recall Words
```

```
    DC027S7        Recall Words
    DC027S8        Recall Words
    DC027S9        Recall Words
Wave 2:
    DB032          receive assistance
    DC027S1        recall words
    DC027S10       recall words
    DC027S11       recall words
    DC027S2        recall words
    DC027S3        recall words
    DC027S4        recall words
    DC027S5        recall words
    DC027S6        recall words
    DC027S7        recall words
    DC027S8        recall words
    DC027S9        recall words
```

Serial 7's

Wave	Variable	Label	Type
1	R1SER7	r1ser7:w1 r serial 7s	Cont
2	R2SER7	r2ser7:w2 r serial 7s	Cont
1	S1SER7	s1ser7:w1 s serial 7s	Cont
2	S2SER7	s2ser7:w2 s serial 7s	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1SER7	14276	3.10	1.88	0.00	5.00
R2SER7	14771	3.15	1.82	0.00	5.00
S1SER7	12211	3.16	1.86	0.00	5.00
S2SER7	12099	3.21	1.81	0.00	5.00

How Constructed:

RwSER7 provides the numbers of correct subtractions in the serial 7's 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. Don't know, refused, or other missings values for RwSER7 is assigned special missing codes .d, .r, .m, respectively. RwSER7 is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. RwSER7 is set to plain missing (.) for respondents who did not respond to this wave.

SwSER7 provides the current wave's spouse numbers of correct subtractions in the serial 7's test and is taken directly from the spouse's value to RwSER7. In addition to the special missing codes used in RwSER7, SwSER7 employs two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
Wave 1:
    DB032          How Often Did the Respondent Receive Assistance
    DC019          100 Minus 7
    DC020          Minus 7
    DC021          Minus 7
    DC022          Minus 7
    DC023          Minus 7
Wave 2:
    DB032          receive assistance
    DC019          100 minus 7
    DC020          minus 7
```

```
DC021          minus 7
DC022          minus 7
DC023          minus 7
```

Date Naming

Wave	Variable	Label	Type
1	R1MO	r1mo:w1 r cognition date naming-month	Categ
2	R2MO	r2mo:w2 r cognition date naming-month	Categ
1	S1MO	s1mo:w1 s cognition date naming-month	Categ
2	S2MO	s2mo:w2 s cognition date naming-month	Categ
1	R1DY	r1dy:w1 r cognition date naming-day of month	Categ
2	R2DY	r2dy:w2 r cognition date naming-day of month	Categ
1	S1DY	s1dy:w1 s cognition date naming-day of month	Categ
2	S2DY	s2dy:w2 s cognition date naming-day of month	Categ
1	R1YR	r1yr:w1 r cognition date naming-year	Categ
2	R2YR	r2yr:w2 r cognition date naming-year	Categ
1	S1YR	s1yr:w1 s cognition date naming-year	Categ
2	S2YR	s2yr:w2 s cognition date naming-year	Categ
1	R1DW	r1dw:w1 r cognition date naming-day of week	Categ
2	R2DW	r2dw:w2 r cognition date naming-day of week	Categ
1	S1DW	s1dw:w1 s cognition date naming-day of week	Categ
2	S2DW	s2dw:w2 s cognition date naming-day of week	Categ
1	R1ORIENT	r1orient:w1 r cognition orient (summary date naming)	Cont
2	R2ORIENT	r2orient:w2 r cognition orient (summary date naming)	Cont
1	S1ORIENT	s1orient:w1 s cognition orient (summary date naming)	Cont
2	S2ORIENT	s2orient:w2 s cognition orient (summary date naming)	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MO	14399	0.94	0.24	0.00	1.00
R2MO	13932	0.95	0.21	0.00	1.00
S1MO	12258	0.94	0.23	0.00	1.00
S2MO	11410	0.95	0.21	0.00	1.00
R1DY	14399	0.81	0.39	0.00	1.00
R2DY	13931	0.80	0.40	0.00	1.00
S1DY	12258	0.81	0.39	0.00	1.00
S2DY	11410	0.80	0.40	0.00	1.00
R1YR	14399	0.80	0.40	0.00	1.00
R2YR	13932	0.88	0.33	0.00	1.00
S1YR	12258	0.81	0.39	0.00	1.00
S2YR	11410	0.89	0.31	0.00	1.00
R1DW	13535	0.69	0.46	0.00	1.00
R2DW	13033	0.79	0.41	0.00	1.00
S1DW	11501	0.69	0.46	0.00	1.00
S2DW	10637	0.79	0.41	0.00	1.00

```
R1ORIENT        15135          3.04           1.09           0.00           4.00
R2ORIENT        15089          3.10           1.11           0.00           4.00

S1ORIENT        12842          3.08           1.07           0.00           4.00
S2ORIENT        12311          3.13           1.10           0.00           4.00
```

Categorical Variable Codes

```
Value-----------------------------------|        R1MO           R2MO
.d:dk                                    |        1655
.m:missing                               |        1286           4201
.p:proxy                                 |         353            475
.r:refuse                                |          12
0.no                                     |         875            671
1.yes                                    |       13524          13261

Value-----------------------------------|        S1MO           S2MO
.d:dk                                    |        1287
.m:missing                               |        1029           3061
.p:proxy                                 |         308            348
.r:refuse                                |           7
.u:unmar                                 |        2278           2426
.v:sp nr                                 |         538           1360
0.no                                     |         713            551
1.yes                                    |       11545          10859

Value-----------------------------------|        R1DY           R2DY
.d:dk                                    |        1655
.m:missing                               |        1286           4201
.p:proxy                                 |         353            475
.r:refuse                                |          12
0.no                                     |        2721           2814
1.yes                                    |       11678          11117

Value-----------------------------------|        S1DY           S2DY
.d:dk                                    |        1287
.m:missing                               |        1029           3061
.p:proxy                                 |         308            348
.r:refuse                                |           7
.u:unmar                                 |        2278           2426
.v:sp nr                                 |         538           1360
0.no                                     |        2272           2283
1.yes                                    |        9986           9127

Value-----------------------------------|        R1YR           R2YR
.d:dk                                    |        1655
.m:missing                               |        1286           4201
.p:proxy                                 |         353            475
.r:refuse                                |          12
0.no                                     |        2832           1733
1.yes                                    |       11567          12199

Value-----------------------------------|        S1YR           S2YR
.d:dk                                    |        1287
.m:missing                               |        1029           3061
.p:proxy                                 |         308            348
.r:refuse                                |           7
.u:unmar                                 |        2278           2426
.v:sp nr                                 |         538           1360
0.no                                     |        2269           1274
1.yes                                    |        9989          10136
```

```
Value-----------------------------------|          R1DW        R2DW
.d:dk                                    |          2521
.m:missing                               |          1286        5101
.p:proxy                                 |           353         475
.r:refuse                                |            10
0.no                                     |          4254        2762
1.yes                                    |          9281       10271

Value-----------------------------------|          S1DW        S2DW
.d:dk                                    |          2045
.m:missing                               |          1029        3834
.p:proxy                                 |           308         348
.r:refuse                                |             6
.u:unmar                                 |          2278        2426
.v:sp nr                                 |           538        1360
0.no                                     |          3522        2227
1.yes                                    |          7979        8410
```

How Constructed:

RwDY, RwMO, RwYR, and RwDW indicate whether 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. Don't know, refused, or other missing responses of RwDY, RwMO, RwYR, and RwDW are assigned special missing codes .d, .r, .m respectively. RwDY, RwMO, RwYR, and RwDW are set to special missing (.p) if the cognition question was skipped because the interview was by proxy. RwDY, RwMO, RwYR, and RwDW are set to plain missing (.) for respondents who did not respond to this wave.

SwDY, SwMO, SwYR and SwDW indicate whether the current wave's spouse was able to correctly report the day of month, month, year, and day of week, respectively. They are taken directly from the spouse's values to RwDY, RwMO, RwYR, and RwDW. In addition to the special missing codes used in RwDY, RwMO, RwYR, and RwDW, SwDY, SwMO, SwYR and SwDW employ two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

RwORIENT indicates the orientation to date, month, year and day of week. It is the summary measure for these 4 variables, ranging from 0 to 4, the higher the better oriented. RwORIENT is set to plain missing (.) for respondents who did not respond to this wave.

SwORIENT is the current wave's spouse's orientation score and is taken directly from the spouse's value to RwORIENT. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

Please note that CHARLS wave 2 data only indicates when the respondent answers the question correctly but does not indicate when the respondent answers incorrectly thus it is impossible to distinguish between respondents who did not answer the questions and respondents who answered incorrectly. Cases such as these are coded as .m missing.

Differences with the RAND HRS

A cognition orient (summary date naming) variable is not included in the HRS.

CHARLS Variables Used:

```
Wave 1:
    DB032           How Often Did the Respondent Receive Assistance
    DC001S1         Year Is Correct
    DC001S2         Month Is Correct
    DC001S3         Day Is Correct
    DC002           Checking Day of Week
Wave 2:
    DB032           receive assistance
    DC001S1         checking date
    DC001S2         checking date
    DC001S3         checking date
    DC002           checking day of week
```

Drawing Picture

Wave	Variable	Label	Type
1	R1DRAW	r1draw:w1 r cognition able to draw assign picture	Categ
2	R2DRAW	r2draw:w2 r cognition able to draw assign picture	Categ
1	S1DRAW	s1draw:w1 s cognition able to draw assign picture	Categ
2	S2DRAW	s2draw:w2 s cognition able to draw assign picture	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DRAW	15826	0.63	0.48	0.00	1.00
R2DRAW	16366	0.65	0.48	0.00	1.00
S1DRAW	13379	0.65	0.48	0.00	1.00
S2DRAW	13264	0.68	0.47	0.00	1.00

Categorical Variable Codes

Value	R1DRAW	R2DRAW
.d:dk	92	
.m:missing	1296	1768
.p:proxy	354	477
.r:refuse	137	
0.no	5823	5696
1.yes	10003	10670

Value	S1DRAW	S2DRAW
.d:dk	67	
.m:missing	1032	1205
.p:proxy	309	350
.r:refuse	102	
.u:unmar	2278	2426
.v:sp nr	538	1360
0.no	4637	4308
1.yes	8742	8956

How Constructed:

RwDRAW is the cognition measure indicating whether the respondent is able to draw an assigned picture (picture of two pentagons overlapped). Don't know, refused, or other missing responses of RwDRAW are assigned special missing codes .d, .r, .m respectively. RwDRAW is set to special missing (.p) if the cognition question was skipped because the interview was by proxy. RwDRAW is set to plain missing (.) for respondents who did not respond to this wave.

SwDRAW is whether the current wave's spouse is able to draw an assigned picture correctly and is taken directly from the spouse's value to RwDRAW. In addition to the special missing codes used in RwDRAW, SwDRAW employs two other missing codes, .u and .v. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

This question is not asked in the HRS.

CHARLS Variables Used:

```
Wave 1:
    DB032          How Often Did the Respondent Receive Assistance
    DC025          Drew the Picture or Failed
Wave 2:
    DB032          receive assistance
    DC025          draw picture
```

Total Recall Summary Score

Wave	Variable	Label	Type
1	R1TR20	r1tr20:w1 r recall summary score	Cont
2	R2TR20	r2tr20:w2 r recall summary score	Cont
1	S1TR20	s1tr20:w1 s recall summary score	Cont
2	S2TR20	s2tr20:w2 s recall summary score	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1TR20	14009	7.25	3.38	0.00	20.00
R2TR20	15699	7.34	3.48	0.00	20.00
S1TR20	11972	7.36	3.35	0.00	20.00
S2TR20	12800	7.48	3.44	0.00	20.00

How Constructed:

RwTR20 is the summary score for total word recall. RwTR20 sums the immediate and delayed word recall scores. It is calculated as RwIMRC (range 0-10) + RwDLRC (range 0-10). RwTR20 is only calculated when the respondent has non-missing values for RwIMRC and RwDLRC.

SwTR20 is the current wave's spouse's total word recall score and is taken directly from the spouse's value to RwTR20. A special missing value .u is used when the respondent does not report being coupled in the current wave. A special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No differences known.

Section E: Financial and Housing Wealth

Inflation Multiplier

Wave	Variable	Label	Type
1	C2009CPINDEX	2009 consumer price index, 2010=100	Cont
1	C2010CPINDEX	2010 consumer price index, 2010=100	Cont
1	C2011CPINDEX	2011 consumer price index, 2010=100	Cont
1	C2012CPINDEX	2012 consumer price index, 2010=100	Cont
1	C2013CPINDEX	2013 consumer price index, 2010=100	Cont
1	C2014CPINDEX	2014 consumer price index, 2010=100	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
C2009CPINDEX	21132	96.80	0.00	96.80	96.80
C2010CPINDEX	21132	100.00	0.00	100.00	100.00
C2011CPINDEX	21132	105.50	0.00	105.50	105.50
C2012CPINDEX	21132	108.20	0.00	108.20	108.20
C2013CPINDEX	21132	114.70	0.00	114.70	114.70
C2014CPINDEX	21132	117.60	0.00	117.60	117.60

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

CyyyyCPINDEX is the annual consumer price index for the year yyyy as indicated in the
variable name. CyyyyCPINDEX uses 2010 as its base year so the consumer price index for
2010 is 100. This consumer price index can be used as an inflation multiplier when
comparing financial values between different survey years.

CyyyyCPINDEX values were provided by the OECD as part of the Consumer Price (MEI)
dataset. The index measures monthly changes in the general level of prices of goods
and services that households acquire for consumption. For more information on the
calculation of the consumer price index see http://stats.oecd.org

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Consumer price index values are not included in the RAND HRS.

Individual value of cash and savings accounts

Wave	Variable	Label	Type
1	R1ACHCK	r1achck:w1 asset: r cash, checking and saving acct	Cont
2	R2ACHCK	r2achck:w2 asset: r cash, checking and saving acct	Cont
1	S1ACHCK	s1achck:w1 asset: s cash, checking and saving acct	Cont
2	S2ACHCK	s2achck:w2 asset: s cash, checking and saving acct	Cont
1	H1ACHCK	h1achck:w1 asset: r+s cash, checking and saving acct	Cont
2	H2ACHCK	h2achck:w2 asset: r+s cash, checking and saving acct	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ACHCK	16423	5603.73	41272.21	0.00	3005000.00
R2ACHCK	14595	10635.84	52812.96	0.00	3035000.00
S1ACHCK	13974	5778.62	43408.68	0.00	3005000.00
S2ACHCK	11882	11067.14	55823.71	0.00	3035000.00
H1ACHCK	15583	10277.38	70392.02	0.00	4100000.00
H2ACHCK	12012	18174.48	82383.37	0.00	4030000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of cash and savings are asked in the individual asset section.

RwACHCK is a total value of cash and savings deposits of the respondent; that is, sum of cash and saving deposits. Respondents are asked to report how much cash is held by you and your spouse at home. If the respondent is married, they are then asked to identify how much of that value they own either as a real value or as a percentage. If the cash is jointly owned the respondent is suggested to report they own 50% of the cash. Respondents are also asked if they currently hold any deposits in financial institutions in their name. If the respondent reports ownership, they are then asked to report the current total amount of those deposits.

RwACHCK is derived by adding the value of cash and the value of savings deposits together. If the respondent reported an exact value for cash and an exact value for saving deposits, RwACHCK is based on the sum of these two reported value. If the respondent is married then the value of cash owned by respondent or the value owned by the respondent and spouse of cash times the percentage held by the respondent is used. In the case that the respondent is married and reports a value owned by the respondent and spouse but does not specify the value owned just by the respondent or the percentage owned by the respondent then 50% of the value owned by the respondent and spouse is used. If the respondent reported that they did not have any savings accounts at financial institutions, RwACHCK is based only on the value of cash. Don't know, refused, or other missing responses of RwACHCK are assigned special missing codes .d, .r, .m respectively. RwACHCK is set to plain missing (.) for respondents who did not respond to this wave.

SwACHCK is a total value of cash and savings deposit of the respondent's spouse and is taken directly from the spouse's values to RwACHCK. SwACHCK employs two special missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwACHCK is a total value of cash, checking and savings at the couple level; that is, sum of RwACHCK and SwACHCK. In addition to the special missing values of RwACHCK and SwACHCK, special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

In Wave 1 respondents are asked whether they are holding any deposits in financial institutions and if the respondent answers yes, they are then are then asked to total amount. Starting in Wave 2, Whether the respondent is holds any deposit accounts is not asked starting in wave 2, instead all respondents are asked the total amount of deposits they are holding in financial institutions.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwACHCK.

Differences with the RAND HRS

Value of cash and saving in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the RAND HRS, RwACHCK, SwACHCK and HwACHCK include the values of checking, savings and money market accounts. In CHARLS, RwACHCK, SwACHCK and HwACHCK include value of cash in hand and deposits in the financial institutions. There is no mention of money market accounts in CHARLS.

CHARLS Variables Used:

```
Wave 1:
    BE001        marital status
    HC001        HOW MUCH CASH ARE YOU HOLDING
    HC003_1      AMOUNT
    HC003_2      PERCENT
    HC004        ARE YOU CURRENTLY HOLDING ANY DEPOSIT
    HC005        WHAT IS THE TOTAL AMOUNT OF DEPOSITS
    PROXY        interview done by proxy
Wave 2:
    BE001        martial status
    HC001        amount of cash
    HC003_1      ownership of cash: yuan
```

```
HC003_2        ownership of cash: percent
HC005          amount of deposit
HD012          receive assistance in answering
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                  Individual value of stocks and mutual funds                  │
└─────────────────────────────────────────────────────────────────────────────┘
```

Wave	Variable	Label	Type
1	R1ASTCK	r1astck:w1 asset: r stocks and mutual funds	Cont
2	R2ASTCK	r2astck:w2 asset: r stocks and mutual funds	Cont
1	S1ASTCK	s1astck:w1 asset: s stocks and mutual funds	Cont
2	S2ASTCK	s2astck:w2 asset: s stocks and mutual funds	Cont
1	H1ASTCK	h1astck:w1 asset: r+s stocks and mutual funds	Cont
2	H2ASTCK	h2astck:w2 asset: r+s stocks and mutual funds	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ASTCK	17339	687.13	31859.66	0.00	4000000.00
R2ASTCK	16654	778.34	13376.71	0.00	1100000.00
S1ASTCK	14703	711.57	34476.87	0.00	4000000.00
S2ASTCK	13491	816.96	14345.56	0.00	1100000.00
H1ASTCK	16794	1242.97	45657.44	0.00	4000000.00
H2ASTCK	14429	1313.01	19877.72	0.00	1100000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of stocks and mutual funds are asked in individual assets section.

RwASTCK is the total value of stocks and mutual funds of the respondent; that is, sum of stocks and mutual funds that the respondent holds. Respondents are asked whether they have held any stocks in the past year under his/her name excluding the equity or stocks from the respondent's work unit. If the respondent has held any stocks, they are then asked to report the present market value of all the stocks the respondent currently holds. Respondents are also asked whether they hold any funds under their name in the past year. If the respondent has held funds, they are then asked to report the present market value of all the funds the respondent currently holds.

RwASTCK is derived by adding the value of stocks and the value of funds together. If the respondent reported an exact value for stocks and mutual funds, then RwASTCK is based on the sum of these two reported value. If the respondent reported that he/she does not have any mutual funds then RwASTCK is based only on the value of stocks, and vice versa. Don't know, refused, or other missing responses of RwASTCK are assigned special missing codes .d, .r, .m respectively. RwASTCK is set to plain missing (.) for respondents who did not respond to this wave.

SwASTCK is the total value of stocks and mutual funds of the respondent's spouse reported and is taken directly from the spouse's values to RwASTCK. In addition to the special missing codes used in RwASTCK, SwASTCK employs two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwASTCK is the total value of stocks and mutual funds at the couple level; that is, sum of RwASTCK and SwASTCK. In addition to the special missing values of RwASTCK and SwASTCK, special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwASTCK.

Differences with the RAND HRS

Total value of stocks and mutual funds in the CHARLS are measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The wording is somewhat different between the HRS and the CHARLS. The HRS asks respondents the value of stocks, mutual funds if sold off and paid off anything owed on it while the CHARLS asks respondents the present market value of all stocks and mutual funds that they are currently holding.

CHARLS Variables Used:

```
Wave 1:
    HC010        HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
    HC013        WHAT IS THE PRESENT MARKET VALUE OF YOUR STOCKS
    HC018        WHAT IS THE PRESENT MARKET VALUE OF YOUR FUNDS
    PROXY        interview done by proxy
Wave 2:
    HC010        stocks
    HC013        market value of stocks
    HC015        funds
    HC018        market value of funds
    HD012        receive assistance in answering
```

Individual value of government bonds

Wave	Variable	Label	Type
1	R1ABOND	r1abond:w1 asset: r government bonds	Cont
2	R2ABOND	r2abond:w2 asset: r government bonds	Cont
1	S1ABOND	s1abond:w1 asset: s government bonds	Cont
2	S2ABOND	s2abond:w2 asset: s government bonds	Cont
1	H1ABOND	h1abond:w1 asset: r+s government bonds	Cont
2	H2ABOND	h2abond:w2 asset: r+s government bonds	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ABOND	17338	69.61	2231.87	0.00	150000.00
R2ABOND	16663	87.22	2627.25	0.00	200000.00
S1ABOND	14703	59.29	1931.83	0.00	110000.00
S2ABOND	13493	96.86	2844.58	0.00	200000.00
H1ABOND	16791	114.26	2905.54	0.00	150000.00
H2ABOND	14436	136.60	3449.04	0.00	200000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of government bonds is asked in the individual asset section.

RwABOND is the value of government bonds of the respondent. Respondents are asked whether they have any government bond (e.g. Treasury bills) in their name. If the respondent indicates that not holding any government bonds, RwABOND is assigned a value of zero. If a respondent indicates having a government bonds; the reported amount of total face value is assigned to RwABOND. Don't know, refused, or other missing responses of RwABOND are assigned special missing codes .d, .r, .m respectively. RwABOND is set to plain missing (.) for respondents who did not respond to this wave.

SwABOND is the value of government bonds of the respondent's spouse reported and is taken directly from the spouse's values to RwABOND. SwABOND employs two special missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwABOND is the value of government bonds at couple level; that is, sum of RwABOND and SwABOND. In addition to the special missing values of RwABOND and SwABOND, special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwABOND.

Differences with the RAND HRS

Value of government bonds in the CHARLS is measured in China's currency Yuan whereas the equivalent measure in the RAND HRS in current dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Unlike the HRS, the CHARLS only asks the amount of government bond while the HRS asks respondents about money in corporate, municipal, government, or foreign bonds, or any bond funds.

CHARLS Variables Used:

```
Wave 1:
    HC007          DO YOU HAVE ANY GOVERNMENT BONDS
    HC008          WHAT IS THE TOTAL FACE VALUE OF GOVERNMENT BONDS
    PROXY          interview done by proxy
Wave 2:
    HC007          goverment bonds
    HC008          face value of goverment bonds
    HD012          receive assistance in answering
```

Individual value of all other savings

```
Wave  Variable      Label                                                Type

  1   R1AOTHR       r1aothr:w1 asset: r all other savings                Cont
  2   R2AOTHR       r2aothr:w2 asset: r all other savings                Cont

  1   S1AOTHR       s1aothr:w1 asset: s all other savings                Cont
  2   S2AOTHR       s2aothr:w2 asset: s all other savings                Cont

  1   H1AOTHR       h1aothr:w1 asset: r+s all other savings              Cont
  2   H2AOTHR       h2aothr:w2 asset: r+s all other savings              Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1AOTHR	17171	870.09	8757.29	0.00	700000.00
R2AOTHR	16423	1589.95	26326.61	0.00	3000000.00
S1AOTHR	14550	955.67	9289.44	0.00	700000.00
S2AOTHR	13296	1510.47	12591.88	0.00	500000.00
H1AOTHR	16503	1638.49	12575.40	0.00	700000.00
H2AOTHR	14119	2476.19	17301.45	0.00	500000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of all other saving are asked in the individual asset section.

RwAOTHR is a total value of all other saving of the respondent; that is, sum of public housing fund, Jizikuan, unpaid salary and other deposits, bonds, stocks or fund that belongs to the respondent but are held in a person's name other than respondent and spouse. Respondents are asked to report the amount of each item are held.

RwAOTHR is derived by adding the value of following items:

    1. Value of public housing fund

        2. Value of Jizikuan

        3. Value of unpaid salary

        4. Value of other deposits, bonds, stocks or funds that belong to you but which
are held in a person's name other than you or your spouse deposits together.

If a respondent indicates not holding any other saving RwAOTHR is assigned a value of
zero. For respondents who report not holding deposits, bonds, stocks, nor funds, the
question about value of other deposits, bonds, stock, or funds that belong to you but
are held in another person's name is not asked. For respondents who indicate having
public housing fund, Jizikuan, unpaid salary or other deposits, bonds, stocks or funds
that belong to you but which are held in a person's name other than you or your spouse
deposits together; the reported amount of total value of other saving is assigned to
RwAOTHR. Don't know, refused, or other missing responses of RwAOTHR are assigned
special missing codes .d, .r, .m respectively. RwAOTHR is set to plain missing (.) for
respondents who did not respond to this wave.

SwAOTHR is the value of all other saving of the respondent's spouse reported and is
taken directly from the spouse's values to RwAOTHR. In addition to the special missing
codes used in RwAOTHR, SwAOTHR employs two other missing codes, .u and .v. Special
missing value .u is used when the respondent does not report being coupled in the
current wave. Special missing value .v is used when the respondent reports being
coupled in the current wave but their spouse is not interviewed.

HwAOTHR is the value of all other saving at the couple level; that is, sum of RwAOTHR
and SwAOTHR. In addition to the special missing values of RwAOTHR and SwAOTHR, special
missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with
completely missing information in the Wave 2 Individual Income file. These missings
affect RwAOTHR.

Differences with the RAND HRS

Value of all other savings in the CHARLS are measured in China's currency Yuan whereas
the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion
into a common currency is necessary before comparison of these data.

In the HRS, respondents report all other savings or assets, such as jewelry, money
owned to you by others, a collection for investment purposes, and rights in a trust or
estate where you are the beneficiary, or an annuity as one value. HRS respondents are
also told to report the net amount which is the value if sold and then paid off any
debts on it.

In the CHARLS, RwAOTHR includes the value of public housing fund and Jizikuan which
are unique in China. Jizikuan is fund individuals provided to the work unit for the
purpose of investment, building apartment and etc.

CHARLS Variables Used:

```
Wave 1:
    HC021        other deposits
    HC022        What is the value of such assets? (yuan)
    HC027        DO YOU HAVE PUBLIC HOUSING FUND
    HC028        WHAT IS THE TOTAL AMOUNT OF MONEY IN PUBLIC HOUSING FUND
    HC030        DO YOU HAVE JIZIKUAN ARE STILL HOLDING
    HC031        WHAT IS THE AMOUNT OF YOUR JIZIKUAN
    HC033        DO YOU HAVE ANY UNPAID SALARY
    HC034        WHAT IS THE AMOUNT OF YOUR UNPAID SALARY
```

```
    PROXY           interview done by proxy
Wave 2:
    HC021           other assets not under name
    HC022           value of other assets
    HC027           public housing fund
    HC028           amount of public housing fund
    HC030           jizikuan
    HC031           amount of jizikuan
    HC033           unpaid salary
    HC034           amount of unpaid salary
    HD012           receive assistance in answering
```

		Individual value of other debt		

Wave	Variable	Label		Type
1	R1ADEBT	r1adebt:w1 asset: r debt		Cont
2	R2ADEBT	r2adebt:w2 asset: r debt		Cont
1	S1ADEBT	s1adebt:w1 asset: s debt		Cont
2	S2ADEBT	s2adebt:w2 asset: s debt		Cont
1	H1ADEBT	h1adebt:w1 asset: r+s debt		Cont
2	H2ADEBT	h2adebt:w2 asset: r+s debt		Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ADEBT	17332	3432.39	26142.13	0.00	1000000.00
R2ADEBT	16641	4699.60	39361.30	0.00	2000000.00
S1ADEBT	14694	3631.69	26384.58	0.00	1000000.00
S2ADEBT	13480	4809.35	40153.44	0.00	2000000.00
H1ADEBT	16777	6361.02	39182.76	0.00	1000000.00
H2ADEBT	14427	8051.81	60144.71	0.00	2000000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

RwADEBT is a total value of other debt of the respondent; that is, sum of loan and
credit card debt. Respondents are asked the amount of loan that haven't repaid (not
including loan of house) and the amount of credit card balance. If the respondent
indicates not having any loan or credit card debt, RwADEBT is assigned a value of
zero. If a respondent indicates having loan or credit card debit; the reported amount
of total of debit is assigned to RwADEBT.

RwADEBT is derived by adding the value of following items:

    1. Value of other loan (not including loans for house)

2. Value of credit card debt

Don't know, refused, or other missing responses of RwADEBT are assigned special missing codes .d, .r, .m respectively. RwADEBT is set to plain missing (.) for respondents who did not respond to this wave.

SwADEBT is the value of other debts of the respondent's spouse reported and is taken directly from the spouse's values to RwADEBT. In addition to the special missing codes used in RwADEBT, SwADEBT employs two other missing codes, .u and .v. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwADEBT is the value of other debts at the couple level; that is, sum of RwADEBT and SwADEBT. In addition to the special missing values of RwADEBT and SwADEBT, special missing value .b is assigned if the respondent's spouse is absent.

Cross Wave Differences in CHARLS

CHARLS asks the respondent an additional question in wave 2 questionnaire "What is the total amount of personal loan that you haven't repaid yet?"

In the HRS, respondents report any debt from credit card balances, medical debts, life insurance policy loans, loans from relatives, and so forth. In the CHARLS, RwADEBT only includes credit card balances and other loans (not including loan for house) without further specification.

Differences with the RAND HRS

Value of other debt in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the HRS, respondents report any debt from credit card balances, medical debts, life insurance policy loans, loans from relatives, and so forth. In the CHARLS, RwADEBT only includes credit card balances and other loans (not including loan for house) without further specification.

CHARLS Variables Used:

```
Wave 1:
    HD001          total of loans not repaid yet
    HD003          CREDIT CARD BALANCE
    PROXY          interview done by proxy
Wave 2:
    HD001          amount of unpaid loan
    HD002_W2_1     amount of personal borrowing
    HD003          credit card balance
    HD012          receive assistance in answering
```

Individual total non-housing financial wealth

Wave	Variable	Label	Type
1	H1ATOTF	h1atotf:w1 asset:r+s total individual financial assets	Cont
2	H2ATOTF	h2atotf:w2 asset:r+s total individual financial assets	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1ATOTF	15270	6407.38	92506.90	-1000000.00	4130000.00
H2ATOTF	11701	13115.43	95092.61	-2000000.00	2661500.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Total value of non-housing financial wealth are asked in the individual asset section.

HwATOTF is a total value of non-housing financial wealth of the respondent and spouse; that is, sum of cash and saving deposit, stocks and mutual funds, government bonds and all other saving minus the value of debt. Respondent and spouse are asked to report the amount of each item is held.

HwATOTF is derived by adding the value of following items:

1. Individual value of cash and saving accounts

2. Individual value of stocks and mutual funds

3. Individual value of government bonds

4. Individual value of all other savings

And minus:

1. Individual value of other debt

HwATOTF= (HwACHCK+ HwASTCK+ HwABOND+ HwAOTHR) – HwADEBT

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

Differences with the RAND HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

Household net value of other house (not primary residence)

```
Wave Variable      Label                                                     Type

  1  HH1ARLES      hh1arles:w1 asset: hh net value of other real estate (not pr  Cont
  2  HH2ARLES      hh2arles:w2 asset: hh net value of other real estate (not pr  Cont

  2  HH2ARLFG      hh2arlfg:w2 asset: hh other real estate flag                  Categ
```

Descriptive Statistics

```
Variable         N         Mean      Std Dev      Minimum       Maximum

HH1ARLES       17398     27112.24   1546548.78   -10000.00  144000000.00
HH2ARLES       16063     17461.92    118493.07   -40000.00    4448000.00

HH2ARLFG       16063         1.21         0.53       1.00          3.00
```

Categorical Variable Codes

```
Value-------------------------------|              HH2ARLFG
1.from wave 1                        |               13572
2.from wave 2                        |                1603
3.mixed from wave 1 and 2            |                 888
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Net value of other real estate (not primary residence) is asked in the household asset
section.

HHwARLES is the net value of other real estate at the household level; that is, the
present market value of other real estate minus the mortgage of other real estate.
Financial respondents are asked to report the value of other residential properties
and the mortgage of the other residential properties. In the case that the other
residential property is not owned in part by the respondent and spouse, but instead
only by other household members, the value of the other residential property is not
asked.

The financial respondent reports the present market value of other residential property that is owned by the respondent or spouse; furthermore, there are two ways for the respondent to report the value of other residential property:

1. Total price

2. Price per square meter

We first take the reported total price. If the value is missing, we then take the reported price per square meter times the size of the property to fill in the missing value. If the respondent indicates not having other residential property then it is assigned a value of zero. If a respondent indicates having other residential property; the reported amount of total value is assigned. Don't know, refused, or other missing responses of HHwARLES are assigned special missing codes .d, .r, .m respectively. HHwARLES is set to plain missing (.) for respondents who did not respond to this wave.

If the financial respondent indicates that the household has taken out a bank loan to finance the purchase, construct or decorate the house then the amount of mortgage is reported. For other houses where a loan has been taken out, HHwARLES is derived by taking the difference of the value of other real estate minus the mortgage of the other real estate.

Please note, starting in wave 2, re-interview respondents are not asked how many other residences they own. Instead, they are asked how many new residences they obtained since the last wave. If the respondent reports the household did not obtain any new house in the past 2 years, CHARLS did not ask the respondent about the current value of other residence or the current value of other house mortgage. In this case, HHwARLES is assigned the value from previous wave. If the respondent reported that they obtained new residences the value of the newly obtained residences are added to the value reported from the previous wave.

HHwARLFG indicates whether the value of HHwARLES is taken from wave 1 solely, wave 2 solely, or is based on values reported in both wave 1 and wave 2.

Cross Wave Differences in CHARLS

Starting in the wave 2 questionnaire, if the re-interviewed respondent indicates that the household did not obtain any new house in the past 2 years, then the value of other residences and the value of mortgage of other residences are not asked. Starting in the wave 2 questionnaire, if the re-interviewed respondent indicates that the household did not obtain any new house since the last interview, then the value of other residences and the value of mortgage of other residences are not asked. If the respondent indicates that the household did obtain new houses since the last interview, only the values of those newly obtained other residences are asked.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwARLES.

Differences with the RAND HRS

Net value of other residential property in the CHARLS is measured in China's currency Yuan whereas the RAND HRS uses US dollar. Therefore, conversion into a common currency is necessary before comparison of these data.

In the HRS, respondents report the value of main home, second home, and other real estate. However, CHARLS does not distinguish the difference between the value of a second home and other real estate.

In the HRS, the respondent reports the other real estate including rental real estate, land, a partnership, or money owned to you on a land contract or mortgage. However, in the CHARLS, HHwARLES only includes other residential housing units.

CHARLS Variables Used:

```
Wave 1:
    HA027           OTHER RESIDENCES
    HA031_1_S1      percent owned by non household members
    HA031_1_S10     percent owned by non household members
    HA031_1_S11     percent owned by non household members
    HA031_1_S2      percent owned by non household members
    HA031_1_S3      percent owned by non household members
    HA031_1_S4      percent owned by non household members
    HA031_1_S5      percent owned by non household members
    HA031_1_S6      percent owned by non household members
    HA031_1_S7      percent owned by non household members
    HA031_1_S8      percent owned by non household members
    HA031_1_S9      percent owned by non household members
    HA034_1_1_      TOTAL PRICE
    HA034_1_2_      TOTAL PRICE
    HA034_1_3_      TOTAL PRICE
    HA034_2_1_      UNIT PRICE
    HA034_2_2_      UNIT PRICE
    HA034_2_3_      UNIT PRICE
    HA036_1_        TAKE OUT A BANK LOAN TO FINANCE
    HA036_2_        TAKE OUT A BANK LOAN TO FINANCE
    HA036_3_        TAKE OUT A BANK LOAN TO FINANCE
    HA037_1_        THE OUTSTANDING AMOUNT OF THE LOANS
    HA037_2_        THE OUTSTANDING AMOUNT OF THE LOANS
    HA038_1_        THE MONTHLY MORTGAGE PAYMENT
    HA038_2_        THE MONTHLY MORTGAGE PAYMENT
    HA051_1_         THE CONSTRUCTION AREA
    HA051_2_         THE CONSTRUCTION AREA
    HA051_3_         THE CONSTRUCTION AREA
    PROXY           interview done by proxy
Wave 2:
    HA027           other residential properties
    HA028           the number of other properties
    HA029_W2        obtained new house
    HA029_W2_1      the number of new houses
    HA031_1_S1      household member [1] owns the house
    HA031_1_S10     household member [10] owns the house
    HA031_1_S11     household member [11] owns the house
    HA031_1_S2      household member [2] owns the house
    HA031_1_S3      household member [3] owns the house
    HA031_1_S4      household member [4] owns the house
    HA031_1_S5      household member [5] owns the house
    HA031_1_S6      household member [6] owns the house
    HA031_1_S7      household member [7] owns the house
    HA031_1_S8      household member [8] owns the house
    HA031_1_S9      household member [9] owns the house
    HA034_1_1_       the present market value of house: total price
    HA034_1_2_       the present market value of house: total price
    HA034_1_3_       the present market value of house: total price
    HA034_1_4_       the present market value of house: total price
    HA034_2_1_       the present market value of house: unit price
    HA034_2_2_       the present market value of house: unit price
    HA034_2_3_       the present market value of house: unit price
    HA034_2_4_       the present market value of house: unit price
    HA036_1_        take out a bank loan for house
    HA036_2_        take out a bank loan for house
    HA036_3_        take out a bank loan for house
    HA036_4_        take out a bank loan for house
    HA037_1_        the outstanding amount of the loans for house
    HA037_2_        the outstanding amount of the loans for house
```

```
HA038_1_        the monthly mortgage payment for house
HA038_2_        the monthly mortgage payment for house
HA051_1_        construction area (m2)
HA051_2_        construction area (m2)
HA051_3_        construction area (m2)
HA051_4_        construction area (m2)
XRTYPE          r interview type
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                    Household value of primary residence                        │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                    Type

  1  HH1AHOUSA     hh1ahousa:w1 asset: hh primary residence regardless of owner  Cont
  2  HH2AHOUSA     hh2ahousa:w2 asset: hh primary residence regardless of owner  Cont

  1  HH1AHRTO      hh1ahrto:w1 asset: hh percent of ownership for primary resid   Cont
  2  HH2AHRTO      hh2ahrto:w2 asset: hh percent of ownership for primary resid   Cont

  1  HH1AHOUS      hh1ahous:w1 asset: hh primary residence with % of ownership    Cont
  2  HH2AHOUS      hh2ahous:w2 asset: hh primary residence with % of ownership    Cont

  1  HH1AFHOUSAR   hh1afhousar:w1 asset: hh imput flag for housing area           Categ
  2  HH2AFHOUSAR   hh2afhousar:w2 asset: hh imput flag for housing area           Categ
```

Descriptive Statistics

```
Variable           N         Mean       Std Dev      Minimum      Maximum

HH1AHOUSA        15669    191038.73    1591326.00        0.00  120000000.00
HH2AHOUSA        13623    334608.46    3328194.83        0.00  192000000.00

HH1AHRTO         17226         0.88          0.31        0.00          1.00
HH2AHRTO         16876         0.87          0.32        0.00          1.00

HH1AHOUS         15654    166114.73    1410265.18        0.00  120000000.00
HH2AHOUS         13592    300465.89    3268773.52        0.00  192000000.00

HH1AFHOUSAR      15669         0.00          0.09        0.00          2.00
HH2AFHOUSAR      13623         0.02          0.17        0.00          2.00
```

Categorical Variable Codes

```
Value--------------------------------| HH1AFHOUSAR   HH2AFHOUSAR
0.not imputed                        |    15634         13487
1.imputed using total land area      |        7            48
2.imputed using community average    |       28            88
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of primary residence are asked in the household asset section.

HHwAHOUSA is the value of primary residence without the percentage of the ownership at the household level. Financial respondents are asked to report the amount of the primary residence, regardless if the current residence is owned by any of the household members. Financial respondents report the present market value of the current residence or the value of a similar house within the same neighborhood; furthermore, there are two ways for respondent to report the value of primary residence:

    1. Total price

    2. Price per square meter

We first take the reported total value. If the total value is not reported, we then take the price per square meter value times the size of the residence. There are some cases where both total and per square meter values are reported. In this instance, we take the larger value if the house is in urban area. If the house is in the rural area, we take the larger value if value is less than 1000 yuan and smaller value if value is greater than 10,000 yuan. If the respondent indicates the current residence does not belong to any household members then HHwAHOUSA is assigned a value of zero. There are also a number of cases were only the price per square meter is reported but the size of the residence is not reported. For these cases the residence size is imputed. If the respondent reports the size of the property but not the size of the residence then the size of the residence is imputed by multiplying the size of the property by the mean ratio of residence size to property size for all CHARLS respondents who reported both residence and property size. If the respondent does not report either the size of the property or the size of residence, the size of the residence is imputed using the mean residence size for the community as identified by communityID. Don't know, refused, or other missing responses of HHwAHOUSA are assigned special missing codes .d, .r, .m respectively. HHwAHOUSA is set to plain missing (.) for respondents who did not respond to this wave.

HHwAFHOUSAR is a flag variable which indicates whether HHwAHOUSA is derived using an imputed residence size. A value of 0 indicates that HHwAHOUSA is either not derived using price per square meter or is derived using price per square meter and the reported size of the residence. A value of 1 indicates HHwAHOUSA is derived using the price per square meter and an imputed value for residence size based on the reported size of the property. A value of 2 indicates HHwAHOUSA is derived using the price per square meter and an imputed value for residence size based on the mean residence size for the community as identified by communityID.

HHwAHRTO is the total percent of ownership for primary residence for all household members. The primary residence might be owned by more than one person or by other households; in this case, reporting the percentage of the ownership for the primary residence is informative and necessary. If the respondent indicates the current residence does not belong to any household members then HHwAHRTO is assigned a value of zero. Don't know, refused, or other missing responses of HHwAHRTO are assigned special missing codes .d, .r, .m respectively. HHwAHRTO is set to plain missing (.) for respondents who did not respond to this wave.

HHwAHOUS is the value of primary residence with the percentage of the ownership at the household level. It is the value of HHwAHOUSA multiple HHwAHRTO. If the respondent indicates the current residence does not belong to any household members then HHwAHOUS is assigned a value of zero. Don't know, refused, or other missing responses of HHwAHOUS are assigned special missing codes .d, .r, .m respectively. HHwAHOUS is set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwAHOUSA, HHwAHRTO, and HHwAHOUS.

Differences with the RAND HRS

Value of primary residence in the CHARLS are measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The HRS asks respondents about the value of home or farm and the value of mobile home and site separately. These two measures are combined in the HRS as a value of primary residence. Unlike the RAND HRS, the CHARLS doesn't survey the value of mobile home and site.

CHARLS Variables Used:

```
Wave 1:
    HA007          OWNSHIP OF CURRENT RESIDENCE
    HA009_10_      PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_11_      PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_12_      PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_13_      PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_14_      PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_1_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_2_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_3_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_4_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_5_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_6_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_7_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_8_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA009_9_       PERCENT OWNED BY HOUSEHOLD MEMBER
    HA011_1        TOTAL PRICE
    HA011_2        UNIT PRICE
    I001           THE TYPE OF AREA OF THE BUILDING
    I002           What is the total housing land area
    PROXY          interview done by proxy
    URBAN_NBS      Urban or Rural according to NBS
Wave 2:
    HA007          ownship of current residence
    HA009_10_      percent owned by household member [10]
    HA009_11_      percent owned by household member [11]
    HA009_12_      percent owned by household member [12]
    HA009_13_      percent owned by household member [13]
    HA009_14_      percent owned by household member [14]
    HA009_1_       percent owned by household member [1]
    HA009_2_       percent owned by household member [2]
    HA009_3_       percent owned by household member [3]
    HA009_4_       percent owned by household member [4]
    HA009_5_       percent owned by household member [5]
    HA009_6_       percent owned by household member [6]
    HA009_7_       percent owned by household member [7]
    HA009_8_       percent owned by household member [8]
    HA009_9_       percent owned by household member [9]
    HA011_1        the present market value of house: total price
    HA011_2        the present market value of house: unit price
    HA027          other residential properties
    HA028          the number of other properties
    I001           what is the construction area of your residence?
```

```
I002              what is the total housing land area?
URBAN_NBS         urban or rural according to nbs
```

Household value of all mortgages for primary residence

```
Wave Variable      Label                                                    Type

  1  HH1AMORT      hh1amort:w1 asset: hh total mortgage for primary residence   Cont
  2  HH2AMORT      hh2amort:w2 asset: hh total mortgage for primary residence   Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev      Minimum       Maximum

HH1AMORT       17387      1326.62     14780.35         0.00      600000.00
HH2AMORT       17518      1759.26     23939.37         0.00     1060000.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of all mortgages for primary residence are asked in the household asset section.

HHwAMORT is the value of mortgage (primary residence) at the household level; that is,
the financial respondent reports the amount of bank loan that the household took out
for financing the purchase, construct or decorate on the house that the household
owns.

Value of mortgage is only asked if the financial respondent indicates that the current
residence is fully owned by household members. If the respondent indicates that does
not have any mortgage, HHwAMORT is assigned a value of zero. If a respondent indicates
having mortgage; the reported amount of total value is assigned. If the respondent
indicates the current residence does not belong to any household members then HHwAMORT
is assigned a value of zero. Don't know, refused, or other missing responses of
HHwAMORT are assigned special missing codes .d, .r, .m respectively. HHwAMORT is set
to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with
completely missing information for the Household Assets section in the Wave 2
Household Income file. These missings affect HHwAMORT.

Differences with the RAND HRS

Value of all mortgages (primary residence) in the CHARLS are measured in China's currency Yuan whereas the equivalent measure in the RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The HRS respondents are asked how much they still owe on a mortgage, land contract, second mortgage or any other loan that uses property as collateral. HRS respondents are also asked to not include the value of any home equity lines of credit. Unlike the HRS, CHARLS only asks respondents the outstanding amount of the loan.

CHARLS Variables Used:

```
Wave 1:
    HA007        OWNSHIP OF CURRENT RESIDENCE
    HA013        TAKE OUT A BANK LOAN TO FINANCE
    HA014        WHAT IS THE OUTSTANDING AMOUNT OF THE LOANS
    PROXY        interview done by proxy
Wave 2:
    HA007        ownship of current residence
    HA013        take out a bank loan
    HA014        the outstanding amount of the loans
    HD012        receive assistance in answering
```

Household net value of primary residence

Wave	Variable	Label	Type
1	HH1ATOTH	hh1atoth:w1 asset: hh net value of primary residence	Cont
2	HH2ATOTH	hh2atoth:w2 asset: hh net value of primary residence	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTH	15636	164677.84	1410882.05	-345000.00	120000000.00
HH2ATOTH	13538	296962.76	3274383.42	-320000.00	192000000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Net value of primary residence are asked in the household asset section.

HHwATOTH is the net value of primary residence is calculated as the value of primary residence minus the value of all mortgage for primary residence:

HHwATOTH = HHwAHOUS - HHwAMORT

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

Differences with the RAND HRS

Net value of primary residence in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

Household value of vehicles

Wave	Variable	Label	Type
1	HH1ATRAN	hh1atran:w1 asset: hh value of transportation	Cont
2	HH2ATRAN	hh2atran:w2 asset: hh value of transportation	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATRAN	17385	5367.12	34323.16	0.00	2001000.00
HH2ATRAN	17713	9105.57	40003.66	0.00	1003000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of vehicles are asked in household assets section.

HHwATRAN is the value of vehicles at the household level; that is, sum of the value of automobile, electric bicycle and motorcycle that the household owned. Financial respondents reported the value of each of the following vehicle has retained.

HHwATRAN is derived by adding the value of following items:

1. Automobile

2. Electric bicycle

3. Motorcycle

If the respondent indicates that not having any vehicles, HHwATRAN is assigned a value of zero. If a respondent indicates having a vehicle; the reported amount of retained value is assigned to HHwATRAN. Don't know, refused, or other missing responses of HHwATRAN are assigned special missing codes .d, .r, .m respectively. HHwATRAN is set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwATRAN.

Differences with the RAND HRS

Value of vehicle in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

In the CHARLS, this measure not only includes the value of automobile and it also includes value of electric bicycle and motorcycle.

CHARLS Variables Used:

```
Wave 1:
    HA065S1         HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S2         HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S3         HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065_1_1_      THE ASSET?
    HA065_1_2_      THE ASSET?
    HA065_1_3_      THE ASSET?
Wave 2:
    HA065S1         own assets: automobile
    HA065S2         own assets: electric bicycle
    HA065S3         own assets: motorcycle
    HA065_1_1_      current value of asset: automobile
    HA065_1_2_      current value of asset: electric bicycle
    HA065_1_3_      current value of asset: motorcycle
```

Household value of non-financial asset (consumer durable asset)

```
Wave Variable     Label                                              Type

  1  HH1ADURBL    hh1adurbl:w1 assets: hh consumer durable assets    Cont
  2  HH2ADURBL    hh2adurbl:w2 assets: hh consumer durable assets    Cont
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev      Minimum      Maximum

HH1ADURBL      17385     3302.07      7708.61         0.00    418000.00
HH2ADURBL      17713     4629.37     11611.78         0.00    583600.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of non-financial assets (consumer durable assets) are asked in the household asset section.

HHwADURBL is the value of non-financial asset at the household level; that is, total value of refrigerator, washing machine, TV, computer, stereo system, camera, air conditioner, mobile phone, furniture, music instrument, valuable decorations, ornaments and vases treasures and precious metal and antique, value painting and calligraphic work and other artistic work. Financial respondents are asked to report the value of following list item has retained.

HHwADURBL is derived by adding the value of following items:

   1. Refrigerator

   2. Washing machine

   3. TV

   4. Computer

   5. Stereo system

   6. Camera

    7. Air conditioner

    8. Mobile phone

    9. Furniture

    10. Music instrument

    11. Valuable decorations, ornaments, and vases

    12. Treasures and precious metal

    13. Antiques, valuable paintings and calligraphic work and other artistic work

If the respondent indicates that the household does not own these non-financial
assets, HHwADURBL is assigned a value of zero. If a financial respondent indicates
that the household owns these non-financial assets, the reported total retained value
of these assets is assigned to HHwADURBL. Don't know, refused, or other missing
responses of HHwADURBL are assigned special missing codes .d, .r, .m respectively.
HHwADURBL is set to plain missing (.) for respondents who did not respond to this
wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with
completely missing information for the Household Assets section in the Wave 2
Household Income file. These missings affect HHwADURBL.

Differences with the RAND HRS

This variable not available in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    HA065S10      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S11      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S12      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S13      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S14      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S15      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S16      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S17      HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S4       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S5       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S6       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S7       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S8       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065S9       HOUSEHOLD EQUIPMENT, CONSUMPTION DURABLES, AND VALUABLES
    HA065_1_10_   THE ASSET?
    HA065_1_11_   THE ASSET?
    HA065_1_12_   THE ASSET?
    HA065_1_13_   THE ASSET?
    HA065_1_14_   THE ASSET?
    HA065_1_15_   THE ASSET?
    HA065_1_16_   THE ASSET?
    HA065_1_17_   THE ASSET?
    HA065_1_4_    THE ASSET?
    HA065_1_5_    THE ASSET?
    HA065_1_6_    THE ASSET?
    HA065_1_7_    THE ASSET?
```

```
    HA065_1_8_      THE ASSET?
    HA065_1_9_      THE ASSET?
Wave 2:
    HA065S10        own assets: camera
    HA065S11        own assets: air conditioner
    HA065S12        own assets: mobile phone
    HA065S13        own assets: furniture
    HA065S14        own assets: music instrument
    HA065S15        own assets: valuable decorations, ornaments
    HA065S16        own assets: treasure and precious metal
    HA065S17        own assets: antique, paintings and artistic work
    HA065S4         own assets: refrigerator
    HA065S5         own assets: washing machine
    HA065S6         own assets: tv
    HA065S7         own assets: computer
    HA065S8         own assets: stereo system
    HA065S9         own assets: video camera
    HA065_1_10_     current value of asset: camera
    HA065_1_11_     current value of asset: air conditioner
    HA065_1_12_     current value of asset: mobile phone
    HA065_1_13_     current value of asset: furniture
    HA065_1_14_     current value of asset: music instrument
    HA065_1_15_     current value of asset: valuable decorations, ornaments
    HA065_1_16_     current value of asset: treasure and precious metal
    HA065_1_17_     current value of asset: antique, paintings and artistic
    HA065_1_4_      current value of asset: refrigerator
    HA065_1_5_      current value of asset: washing machine
    HA065_1_6_      current value of asset: tv
    HA065_1_7_      current value of asset: computer
    HA065_1_8_      current value of asset: stereo system
    HA065_1_9_      current value of asset: video camera
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                   Household value of fixed capital assets                     │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                               Type

  1  HH1AFIXC      hh1afixc:w1 asset: hh fixed capital assets          Cont
  2  HH2AFIXC      hh2afixc:w2 asset: hh fixed capital assets          Cont
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev     Minimum      Maximum

HH1AFIXC        17221      5213.12    63754.20        0.00   4000000.00
HH2AFIXC        17439      7141.09    85334.13        0.00   5000000.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of fixed capital assets are asked in the household asset section.

HHwAFIXC is the value of fixed capital assets at the household level; that is, total
value of tractor, thresher, tractor tools, water pump, processing equipment, fixed
capital used in household production or self-employment activities, and other durable
or fixed assets worth 500 yuan and more. Financial respondents are asked to report the
value of each of the following item has retained.

HHwAFIXC is derived by adding the value of following assets:

      1. Value of tractor

      2. Value of thresher

      3. Value of tractor tools

      4. Value of water pump

      5. Value of processing equipment

      6. Current value of fixed capital used in household production or self-
employment activities

       7. Value of other durable or fixed assets worth 500 yuan and more

If the respondent indicates that not having any fixed capital assets, HHwAFIXC is assigned a value of zero. If a financial respondent indicates that the household owns these fixed capital assets, the reported total value of these assets is assigned to HHwAFIXC. Don't know, refused, or other missing responses of HHwAFIXC are assigned special missing codes .d, .r, .m respectively. HHwAFIXC is set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwAFIXC.

Differences with the RAND HRS

This variable is not available in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    HA066_1_1_      THE ASSET'S CURRENT VALUE
    HA066_1_2_      THE ASSET'S CURRENT VALUE
    HA066_1_3_      THE ASSET'S CURRENT VALUE
    HA066_1_4_      THE ASSET'S CURRENT VALUE
    HA066_1_5_      THE ASSET'S CURRENT VALUE
    HA067           THE CURRENT VALUE OF OTHER FIXED CAPITAL ASSETS
    HA068_1         WORTH
Wave 2:
    HA066S1         own fixed assets: tractor
    HA066S2         own fixed assets: thresher
    HA066S3         own fixed assets: tractor tools
    HA066S4         own fixed assets: water pump
    HA066S5         own fixed assets: processing equipment
    HA066S6         own fixed assets: none
    HA066_1_1_      current value of fixed asset: tractor
    HA066_1_2_      current value of fixed asset: thresher
    HA066_1_3_      current value of fixed asset: tractor tools
    HA066_1_4_      current value of fixed asset: water pump
    HA066_1_5_      current value of fixed asset: processing equipment
    HA067           current value of other fixed assets
    HA068           other durable or fixed assets
```

Household value of irrigable land

```
Wave Variable     Label                                                 Type

  1  HH1ALAND     hh1aland:w1 asset: hh value of irrigable land          Cont
  2  HH2ALAND     hh2aland:w2 asset: hh value of irrigable land          Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev     Minimum      Maximum

HH1ALAND        17423      1626.13     24326.84        0.00    3000050.00
HH2ALAND        17697      3013.80     76321.60        0.00    6400000.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of irrigable land are asked in the household asset section.

HHwALAND is the value of the irrigable land at the household level; that is, the rent
of cultivated land, forest land, pasture and pond if the land is rent out. Financial
respondents are asked to report the value of the annual rent per mu per year would get
if rent out. The respondents also reported the amount of mu that the household have.
In this case, the value of the irrigable land is the reported possible rent per mu per
year times the area of land.

HHwALAND is derived by adding the value of the following items:

    1. Rent for cultivated land

    2. Rent for forest land

    3. Rent for pasture

    4. Rent for pond

If the respondent indicates that not having any irrigable land, HHwALAND is assigned a
value of zero. Don't know, refused, or other missing responses of HHwALAND are
assigned special missing codes .d, .r, .m respectively. HHwALAND is set to .i for

responses which are considered invalid. HHwALAND is set to plain missing (.) for
respondents who did not respond to this wave.

In China, government has the ownership of land and people only has the rights to use
the land. As a result, we calculate the rent from the land, if land is rented out, not
the actual value of the land.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with
completely missing information for the Household Assets section in the Wave 2
Household Income file. These missings affect HHwALAND.

Differences with the RAND HRS

The HRS does not differentiate irrigable land. All land is included as a part of real
estate and asked about its value.

Mu is a Chinese unit of area. The conversion between mu to square feet is 1 to
7175.94.

CHARLS Variables Used:

```
Wave 1:
    HA054S1         CULTIVATED LAND
    HA054S2         CULTIVATED LAND
    HA054S3         CULTIVATED LAND
    HA054S4         CULTIVATED LAND
    HA054S5         CULTIVATED LAND
    HA055_1_        THE NUMBER OF CULTIVATED LAND
    HA055_2_        THE NUMBER OF CULTIVATED LAND
    HA055_3_        THE NUMBER OF CULTIVATED LAND
    HA055_4_        THE NUMBER OF CULTIVATED LAND
    HA057_1_        RENT
    HA057_2_        RENT
    HA057_3_        RENT
    HA057_4_        RENT
Wave 2:
    HA054S1         categories of land
    HA054S2         categories of land
    HA054S3         categories of land
    HA054S4         categories of land
    HA054S5         categories of land
    HA055_1_        area (mu)
    HA055_2_        area (mu)
    HA055_3_        area (mu)
    HA055_4_        area (mu)
    HA057_1_        rent per mu per year
    HA057_2_        rent per mu per year
    HA057_3_        rent per mu per year
    HA057_4_        rent per mu per year
```

Household value of livestock & fisheries

```
Wave Variable      Label                                               Type

  1  HH1AAGRI      hh1aagri:w1 asset: agricultural asset: hh livestock & fisher  Cont
  2  HH2AAGRI      hh2aagri:w2 asset: agricultural asset: hh livestock & fisher  Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev     Minimum       Maximum

HH1AAGRI        17358      2367.61     19756.15       0.00      700000.00
HH2AAGRI        17566      1668.89     21164.14       0.00     1000000.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of livestock and fisheries are asked in the household asset section.

HHwAAGRI is the current value of all livestock (including chicken, duck, cattle, pig,
sheep, etc) and aquatic life at the household level.

If a financial respondent indicates that the household grew livestock or aquatic life
in the past year; the value of the livestock or aquatic life is reported and assigned
to HHwAAGRI. If the respondent indicates that not having any livestock or fisheries,
HHwAAGRI is assigned a value of zero. Don't know, refused, or other missing responses
of HHwAAGRI are assigned special missing codes .d, .r, .m respectively. HHwAAGRI is
set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with
completely missing information for the Household Agricultural Income and Expenditure
section in the Wave 2 Household Income file. These missings affect HHwAAGRI.

Differences with the RAND HRS

This variable is not available in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    GB001           Did Your Household Engage in Agricultural Work
    GB007           Did Your Household Grow Any Livestock or Fish Last Year
    GB008           Value of All Livestock
Wave 2:
    GB001           other household members engage in agricultural work
    GB007           grow livestock or aquatic life
    GB008           current value of livestock and aquatic life
```

Household value of personal loans

Wave	Variable	Label	Type
1	HH1ALEND	hh1alend:w1 asset: hh total amount of personal loans that ha	Cont
2	HH2ALEND	hh2alend:w2 asset: hh total amount of personal loans that ha	Cont
1	HH1ABORR	hh1aborr:w1 asset: hh total amount of money owing to others	Cont
2	HH2ABORR	hh2aborr:w2 asset: hh total amount of money owing to others	Cont
1	HH1APLOAN	hh1aploan:w1 asset: hh net value of personal loan	Cont
2	HH2APLOAN	hh2aploan:w2 asset: hh net value of personal loan	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ALEND	17335	1748.87	11745.57	0.00	400000.00
HH2ALEND	17531	3204.30	20032.01	0.00	500000.00
HH1ABORR	17324	8050.55	27298.49	0.00	500000.00
HH2ABORR	17568	8567.50	29337.97	0.00	500000.00
HH1APLOAN	17253	-6242.51	27156.05	-500000.00	210000.00
HH2APLOAN	17414	-5388.60	33908.28	-500000.00	500000.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections: individual asset section, household asset section, and other household members' asset section.

In the individual assets section, all respondents answer the question for their own financial situation. In particular, the individual asset section asks about: value of cash, saving account, stocks, mutual funds, government bond, debt, and all other savings.

In the household asset section, only financial respondents answer the question on behalf of the full household. In particular, the household asset section asks about: value of primary housing, mortgage for primary house, other real estate, vehicle, non-financial household asset, fixed capital asset, irrigable land, and value of livestock.

In the other household members' asset section the financial respondents reports other household members' financial situations. Financial assets and debt are asked in this section.

How Constructed:

Value of monetary are asked in the household asset section.

HHwALEND is the amount of money that the household lent to other families or individual and had not been paid in the past year. If the respondent indicates not lending out money to other families or individual, HHwALEND is assigned a value of zero.

HHwABORR is the amount of loan that the household still owing to other families, individual or your work unit.

Don't know, refused, or other missing responses of HHwALEND or HHwABORR are assigned special missing codes .d, .r, .m respectively. HHwALEND or HHwABORR are set to .i for responses which are considered invalid. HHwALEND or HHwABORR are set to plain missing (.) for respondents who did not respond to this wave.

HHwAPLOAN is the net value of monetary asset. HHwAPLOAN = HHwALEND - HHwABORR.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwALEND and HHwABORR.

Differences with the RAND HRS

This variable is not included in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    HA069           HAVE YOU LENT TO ANYONE AND NOT BEEN REPAID
    HA070           WHAT IS THE TOTAL AMOUNT OF THE LOANS
    HA072           amount of loans still owed to family or work
Wave 2:
    HA069           lent out unpaid
    HA070           amount of the loans
    HA072           amount of debt
```

```
┌─────────────────────────────────────────────────────────────────────────────────┐
│                    Other HH members' financial asset and debts                    │
└─────────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                       Type

  1   HH1AFSST      hh1afsst:w1 asset: value of other hh members financial asset  Cont
  2   HH2AFSST      hh2afsst:w2 asset: value of other hh members financial asset  Cont

  1   HH1AFLOA      hh1afloa:w1 asset: value of other hh members financial debt   Cont
  2   HH2AFLOA      hh2afloa:w2 asset: value of other hh members financial debt   Cont

  1   HH1AFHHM      hh1afhhm:w1 asset: net value of other hh members financial a  Cont
  2   HH2AFHHM      hh2afhhm:w2 asset: net value of other hh members financial a  Cont
```

Descriptive Statistics

```
Variable          N         Mean       Std Dev       Minimum       Maximum

HH1AFSST        15720      3079.79     18974.85     -10000.00     1000000.00
HH2AFSST        17195      4048.41     27765.06          0.00     1000000.00

HH1AFLOA        17188      1915.06     17237.17          0.00      500000.00
HH2AFLOA        17944      2818.37     32928.86          0.00     2000000.00

HH1AFHHM        15640      1311.18     23693.61    -500000.00      850000.00
HH2AFHHM        17175      1296.00     42766.25   -2000000.00     1000000.00
```

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

Value of financial asset and debts that other household members have are asked in the
household asset section.

CHARLS not only asks respondents and spouses about their financial situation, but also
asks each of other household members about his/her financial situation.

HHwAFSST is the value of financial asset that other household members currently hold.
The financial respondent reports the value of all financial assets (including cash,
saving, stocks and funds) of each household member is holding. For households without
any other household members beside the respondent and spouse, HHwAFSST is assigned a
value of zero.

HHwAFLOA is the amount of debt that other household members have. The financial
respondent reports the value of all outstanding (unpaid) loans from banks or financial
institutions (not including mortgage) of each household member is owing. For
households without any other household members beside the respondent and spouse,
HHwAFLOA is assigned a value of zero.

Don't know, refused, or other missing responses of HHwAFSST or HHwAFLOA are assigned
special missing codes .d, .r, .m respectively. HHwAFSST or HHwAFLOA are set to plain
missing (.) for respondents who did not respond to this wave.

HHwAFHHM is the net value of financial asset that other household members have. That
is:

HHwAFHHM = HHwAFSST - HHwAFLOA.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with
completely missing information for the Household Assets section in the Wave 2
Household Income file. These missings affect HHwAFSST and HHwAFLOA.

Differences with the RAND HRS

This variable is not available in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    HA074_10_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_11_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_12_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_13_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_14_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_15_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_16_       THE VALUE OF ALL FINANCIAL ASSETS
    HA074_1_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_2_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_3_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_4_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_5_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_6_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_7_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_8_        THE VALUE OF ALL FINANCIAL ASSETS
    HA074_9_        THE VALUE OF ALL FINANCIAL ASSETS
    HA075_10_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_11_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_12_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_13_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_14_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_15_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_16_       THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_1_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_2_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_3_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_4_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_5_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_6_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_7_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_8_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
    HA075_9_        THE VALUE OF ALL OUTSTANDING (UNPAID) LOANS
Wave 2:
```

```
HA074_10_      value of financial assets of household member [10]
HA074_11_      value of financial assets of household member [11]
HA074_12_      value of financial assets of household member [12]
HA074_13_      value of financial assets of household member [13]
HA074_14_      value of financial assets of household member [14]
HA074_15_      value of financial assets of household member [15]
HA074_16_      value of financial assets of household member [16]
HA074_1_       value of financial assets of household member [1]
HA074_2_       value of financial assets of household member [2]
HA074_3_       value of financial assets of household member [3]
HA074_4_       value of financial assets of household member [4]
HA074_5_       value of financial assets of household member [5]
HA074_6_       value of financial assets of household member [6]
HA074_7_       value of financial assets of household member [7]
HA074_8_       value of financial assets of household member [8]
HA074_9_       value of financial assets of household member [9]
HA075_10_      value of unpaid loans of household member [10]
HA075_11_      value of unpaid loans of household member [11]
HA075_12_      value of unpaid loans of household member [12]
HA075_13_      value of unpaid loans of household member [13]
HA075_14_      value of unpaid loans of household member [14]
HA075_15_      value of unpaid loans of household member [15]
HA075_16_      value of unpaid loans of household member [16]
HA075_1_       value of unpaid loans of household member [1]
HA075_2_       value of unpaid loans of household member [2]
HA075_3_       value of unpaid loans of household member [3]
HA075_4_       value of unpaid loans of household member [4]
HA075_5_       value of unpaid loans of household member [5]
HA075_6_       value of unpaid loans of household member [6]
HA075_7_       value of unpaid loans of household member [7]
HA075_8_       value of unpaid loans of household member [8]
HA075_9_       value of unpaid loans of household member [9]
```

Net value of non-housing financial wealth

Wave	Variable	Label	Type
1	HH1ATOTF	hh1atotf:w1 asset: hh net value of non-housing financial wea	Cont
2	HH2ATOTF	hh2atotf:w2 asset: hh net value of non-housing financial wea	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTF	13676	731.71	94422.38	-1129500.00	4088000.00
HH2ATOTF	10823	10166.44	112936.31	-1948450.00	2781500.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

HHwATOTF is the net value of non-housing financial wealth at household level.

HHwATOTF is derived by adding the following item:

1. HwATOTF is the total individual financial assets at the couple level.

2. HHwAFHHM is the net value of financial asset that other household members have.

3. HHwAPLOAN is the net value of monetary asset.

HHwATOTF = HwATOTF + HHwAFHHM + HHwAPLOAN

Note: This total does not include the value of any real estate or vehicles.

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify
cross wave differences.

Differences with the RAND HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent

measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                              Total Wealth                                     │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable        Label                                                    Type

   1  HH1ATOTB        hh1atotb:w1 asset: hh total wealth                       Cont
   2  HH2ATOTB        hh2atotb:w2 asset: hh total wealth                       Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1ATOTB	12558	171681.55	1440949.29	-1072080.00	120039520.00
HH2ATOTB	8075	346551.77	4014758.99	-2171500.00	192050592.00

General Comments:

In CHARLS survey, the assets questions are asked in three separate sections:
individual asset section, household asset section, and other household members' asset
section.

In the individual assets section, all respondents answer the question for their own
financial situation. In particular, the individual asset section asks about: value of
cash, saving account, stocks, mutual funds, government bond, debt, and all other
savings.

In the household asset section, only financial respondents answer the question on
behalf of the full household. In particular, the household asset section asks about:
value of primary housing, mortgage for primary house, other real estate, vehicle, non-
financial household asset, fixed capital asset, irrigable land, and value of
livestock.

In the other household members' asset section the financial respondents reports other
household members' financial situations. Financial assets and debt are asked in this
section.

How Constructed:

HwATOTB is the sum of all financial assets at the household level.

HwATOTB is derived by adding the following items:

    1. Individual value of cash and saving accounts

    2. Individual value of stocks and mutual funds

    3. Individual value of government bonds

    4. Individual value of all other savings

    5. Household net value of other house

    6. Household value of primary residence

    7. Household value of vehicles

    8. Household value of non-financial asset

    9. Household value of fixed capital asset

    10. Household value of irrigable land

```
    11. Household value of agricultural asset (livestock and fisheries)

    12. Other household members' financial asset and debts
```

And minus the following items:

```
    1.Individual value of other debt

    2.Household value of mortgage of primary residence
```

```
HHwATOTB = HwACHCK + HwASTCK + HwABOND + HwAOTHR + HHwARLES + HHwAHOUS + HHwATRAN +
HHwADURBL + HHwAFIXC + HHwALAND + HHwAAGRI + HHwAFHHM – HwADEBT – HHwAMORT
```

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

Differences with the RAND HRS

These values in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

Section F: Income and Consumption

Earning Income

Wave	Variable	Label	Type
1	R1IWAGEI	r1iwagei:w1 income: r wage and bonus from income module	Cont
2	R2IWAGEI	r2iwagei:w2 income: r wage and bonus from income module	Cont
1	S1IWAGEI	s1iwagei:w1 income: s wage and bonus from income module	Cont
2	S2IWAGEI	s2iwagei:w2 income: s wage and bonus from income module	Cont
1	R1IWAGEW	r1iwagew:w1 income: r earning from work module	Cont
2	R2IWAGEW	r2iwagew:w2 income: r earning from work module	Cont
1	S1IWAGEW	s1iwagew:w1 income: s earning from work module	Cont
2	S2IWAGEW	s2iwagew:w2 income: s earning from work module	Cont
1	R1IEARN	r1iearn:w1 income: r earning from income or work module	Cont
2	R2IEARN	r2iearn:w2 income: r earning from income or work module	Cont
1	S1IEARN	s1iearn:w1 income: s earning from income or work module	Cont
2	S2IEARN	s2iearn:w2 income: s earning from income or work module	Cont
1	H1IEARN	h1iearn:w1 income: r+s earning from income or work module(co	Cont
2	H2IEARN	h2iearn:w2 income: r+s earning from income or work module(co	Cont
1	R1IFRING	r1ifring:w1 income: r fringe benefits	Cont
2	R2IFRING	r2ifring:w2 income: r fringe benefits	Cont
1	S1IFRING	s1ifring:w1 income: s fringe benefits	Cont
2	S2IFRING	s2ifring:w2 income: s fringe benefits	Cont
1	R1ISEMP	r1isemp:w1 income: r self-employment w/o other hh members	Cont
2	R2ISEMP	r2isemp:w2 income: r self-employment w/o other hh members	Cont
1	S1ISEMP	s1isemp:w1 income: s self-employment w/o other hh members	Cont
2	S2ISEMP	s2isemp:w2 income: s self-employment w/o other hh members	Cont
1	H1IFRING	h1ifring:w1 income: r+s fringe benefits(couple level)	Cont
2	H2IFRING	h2ifring:w2 income: r+s fringe benefits(couple level)	Cont
1	H1ISEMP	h1isemp:w1 income: r+s self-employment w/o other hh members	Cont
2	H2ISEMP	h2isemp:w2 income: r+s self-employment w/o other hh members	Cont
1	HH1IWAGEO	hh1iwageo:w1 income: other household member wage income	Cont
2	HH2IWAGEO	hh2iwageo:w2 income: other household member wage income	Cont
1	HH1IAGRI	hh1iagri:w1 income: hhold net agricultural income	Cont
2	HH2IAGRI	hh2iagri:w2 income: hhold net agricultural income	Cont
1	HH1ISEMP	hh1isemp:w1 income: hhold self-employed activities	Cont
2	HH2ISEMP	hh2isemp:w2 income: hhold self-employed activities	Cont
1	HH1IEARN	hh1iearn:w1 income: hhold total earnings	Cont
2	HH2IEARN	hh2iearn:w2 income: hhold total earnings	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IWAGEI	17349	3283.18	10604.52	0.00	360000.00
R2IWAGEI	16654	4068.12	11757.35	0.00	300000.00

S1IWAGEI	14708	3570.00	11122.59	0.00	360000.00
S2IWAGEI	14092	4377.58	12256.96	0.00	300000.00
R1IWAGEW	17112	3282.28	19871.53	0.00	2160000.00
R2IWAGEW	17984	3767.05	14527.73	0.00	720000.00
S1IWAGEW	14461	3579.57	21258.13	0.00	2160000.00
S2IWAGEW	15111	4087.99	15271.49	0.00	720000.00
R1IEARN	17491	4416.13	20998.46	0.00	2160000.00
R2IEARN	18250	5171.89	15931.40	0.00	720000.00
S1IEARN	14796	4807.36	22427.84	0.00	2160000.00
S2IEARN	15341	5611.06	16719.51	0.00	720000.00
H1IEARN	16963	8489.69	31217.83	0.00	2179200.00
H2IEARN	17552	9910.73	24372.82	0.00	738000.00
R1IFRING	17357	261.61	18241.27	0.00	2400000.00
R2IFRING	18259	473.98	29442.67	0.00	3613056.00
S1IFRING	14670	297.52	19839.31	0.00	2400000.00
S2IFRING	15366	545.93	32092.82	0.00	3613056.00
R1ISEMP	17432	805.28	10968.80	0.00	1000000.00
R2ISEMP	18226	922.65	11289.28	0.00	1000000.00
S1ISEMP	14739	827.05	11357.98	0.00	1000000.00
S2ISEMP	15346	1026.57	11825.93	0.00	1000000.00
H1IFRING	16717	526.07	26285.36	0.00	2400000.00
H2IFRING	17590	957.51	42533.61	0.00	3623712.00
H1ISEMP	16853	1471.58	15449.96	0.00	1013000.00
H2ISEMP	17539	1806.30	15881.53	0.00	1000000.00
HH1IWAGEO	16796	9326.19	20082.04	0.00	420000.00
HH2IWAGEO	18062	8687.65	21913.06	0.00	576000.00
HH1IAGRI	16848	2228.20	11645.99	-540000.00	385300.00
HH2IAGRI	17004	1125.04	22583.59	-790700.00	1340000.00
HH1ISEMP	17323	1907.76	13321.60	-30000.00	600000.00
HH2ISEMP	17474	2281.37	37401.07	-3000000.00	500000.00
HH1IEARN	15305	24329.70	57028.30	-537000.00	2558400.00
HH2IEARN	15518	25999.62	69504.63	-790700.00	3883612.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r)
special missing responses are only provided for Wave 1. These special missing codes
are not available starting in Wave 2. As a result, all missing values are coded to
"other missing" (.m) starting in Wave 2.

How Constructed:

Respondents are asked to report their past year wages and bonus income in both the
income module and the work module. These questions are asked to all respondents.

RwIWAGEI is the respondent's total income from the income module. The variable includes respondent's wages and bonus income in past year. Respondents who indicate that they do not receive any wages or bonus income in the past year are not asked the value of income question and are assigned a value of 0 for RwIWAGEI. Respondents can report wage and bonus income in two ways: annually or monthly. RwIWAGEI is derived first using the reported annual amount. If the annual amount is missing, RwIWAGEI is based on use the monthly amount times 12.

RwIWAGEW is the respondent's total income from the work module. RwIWAGEW includes respondents' wages from agricultural work, non-agricultural job, side job, and all other bonuses. Earnings from side jobs is asked as the average monthly income but CHARLS does not include a question asking how many months the respondent worked in the past year at side jobs. Yearly earnings from side jobs for RwIWAGEW is calculated using the number of months the respondent reported working at their main job in the last year. There are three conditions for the respondent to be assigned a value of zero:

    1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

    2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

    3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family business and not expecting to go back to the job in the future or within 6 months.

Don't know, refused, or other missing responses of RwIWAGEI or RwIWAGEW are assigned special missing codes .d, .r, .m respectively. RwIWAGEI or RwIWAGEW are set to plain missing (.) for respondents who did not respond to this wave.

RwIEARN is the maximum value of respondent's earnings from either RwIWAGEI or RwIWAGEW.

SwIWAGEI, SwIWAGEW and SwIEARN are taken directly from the spouse's value to RwIWAGEI, RwIWAGEW and RwIEARN. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwIEARN is the household earning income in the past year at the couple level; that is, the sum of RwIEARN and SwIEARN. In addition to the special missing values of RwIEARN and SwIEARN, special missing value .b is assigned if the respondent's spouse is absent.

RwIFRING is the respondent's total amount of fringe benefits that are provided by respondent's company. CHARLS includes the following list of possible fringe benefits which might provide by a respondent's work place:

    1. Free lunch

    2. Free breakfast

    3. Free dinner

4. Meal cash subsidy

5. Transportation cash subsidization

6. Free housing

7. Subsidization of housing

8. Company car

9. Company bus

10. Other subsidies

If a respondent indicates that he/she received any of the fringe benefits in the past year, then the amounts were reported. Respondents who indicated that they have not received any fringe benefit are not asked the value and are assigned a value of zero for RwIFRING. There are three conditions for the respondent to be assigned a value of zero:

  1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

  2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

  3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family business and not expecting to go back to the job in the future or within 6 months.

RwISEMP is the respondent's net income earned from self-employed activity in the last year. It is the earned income minus the cost of: energy, housing or equipment rental, raw materials, transportation, marketing, wages, taxes, and other fees. If the respondent is a single operator and self-employed, then the amount is reported. Respondents who indicate that they do not engage in self-employment are assigned a value of zero. Respondents who report that they do engage in self-employment but that other household members are engaged in the same self-employed activity are not asked self-employed earnings here but instead report these earnings in the household income module. For these cases, RwISEMP is assigned a value of zero and household self-employed income is captured in HHwISEMP. There are four conditions for the respondent to be considered not engaged in self-employment:

  1. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months.

  2. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not receiving salary from the job, not expecting to go back to the job in the future or within 6 months but have worked for at least three months during lifetime.

3. A respondent who indicates not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, having a job but being temporarily laid-off or on sick leave or other leave or in-job training, not working for at least one hour last week in wage or self-employed work or unpaid family.

4. A respondent who indicates not working for at least three months during lifetime (work includes agricultural work, earning wage work, self-employed activities and unpaid family business), not engaging in any agricultural work for more than 10 days in the past year, not working at least one hour last week, not receiving salary from the job and not expecting to go back to the job in the future or within 6 months but having a non-agricultural job that is not self-employed or unpaid family business.

Don't know, refused, or other missing responses of RwIFRING and RwISEMP are assigned special missing codes .d, .r, .m respectively. RwIFRING and RwISEMP are set to plain missing (.) for respondents who did not respond to this wave.

SwIFRING and SwISEMP are taken directly from the spouse's measures in RwIFRING and RwISEMP. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwIFRING is the total amount of fringe benefits that are provided by the company at the couple level; that is, the sum of RwIFRING and SwIFRING. In addition to the special missing values of RwIFRING and SwIFRING, special missing value .b is assigned if the respondent's spouse is absent.

HwISEMP is the net income earned from the self-employed activity in the last year at the couple level; that is, the sum of RwISEMP and SwISEMP. In addition to the special missing values of RwISEMP and SwISEMP, special missing value .b is assigned if the respondent's spouse is absent.

HHwIWAGEO is the value of other household member's wage and bonus income in the past year. This variable is based on questions asked to the household financial respondent about the amounts of wages and bonus income that each of the household member received in the past year. The financial respondent can report wages and bonus income in two ways: annually or monthly. HHwIWAGEO is derived first using the reported annual amount. If the annual amount is missing, HHwIWAGEO is based on the monthly amount times 12. Don't know, refused, or other missing responses of HHwIWAGEO are assigned special missing codes .d, .r, .m respectively. HHwIWAGEO is set to plain missing (.) for respondents who did not respond to this wave.

HHwIAGRI is the net income from agricultural activities at the household level. Respondents who indicate not engaging in agricultural work in the last year are assigned a value of zero. HHwIAGRI is a summary variable which consists of 7 different components:

1. Value of all crop and forestry product produced last year

2. Value of livestock and aquatic life that were sold and consumed in the last year

3. Value of all livestock products produced (including the self-consumption value) in the past year, including milk, wool (including cashmere sheep or goat skin) and eggs

4. Cost of producing crop and forestry products including Seeds (including home-used seeds), fertilizer, organic fertilizer, pesticide, plastic sheets, hiring labor (including with machine or animals), land rents, rents (excluding land rents), irrigation, fuel, transportation, processing, marketing (including packaging, management fee))

5. Cost of purchasing the livestock and aquatic life

6. Cost of producing livestock and aquatic life in the past year (including feed, medicine, pasture fees, animal pens, wages, etc.)

7. The difference of current value of all livestock and last year value of all livestock. Livestock here includes chickens, ducks, cattle, pigs, sheep, etc.

Don't know, refused, or other missing responses of HHwIAGRI are assigned special missing codes .d, .r, .m respectively. HHwIAGRI is set to plain missing (.) for respondents who did not respond to this wave.

HHwISEMP is the value of household income from self-employed activities. Respondents who indicate that the household does not engage in self-employment are assigned a value of zero. The financial respondent reports whether any household members (including respondent and spouse) engaged in the following self-employed activities:

1.   Service, such as cooking, sewing, private clinic etc.

2.   Transportation

3.   Construction

4.   Mining

5.   Processing production

6.   Business and others

7.   Others

If the household members conduct any of these activities, the financial respondent reports the net income earned by the household members excluding the fixed capital costs. Don't know, refused, or other missing responses of HHwISEMP are assigned special missing codes .d, .r, .m respectively. HHwISEMP is set to plain missing (.) for respondents who did not respond to this wave.

HHwIEARN is the summary of the total household earnings that includes individual earning income at the couple level, fringe benefits that are provided by the company at the couple level, net income earned from the self-employed activity in the last year at the couple level, other household members' earning income, household level agricultural income, and household level self-employed activities income.

HHwIEARN = HwIEARN + HwIFRING + HwISEMP + HHwIWAGEO + HHwIAGRI + HHISEMP

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect R2IWAGEI.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Agriculture Income and Expenditure Module in the Wave 2 Household Income file. These missings affect HHwIAGRI and HHISEMP.

Differences with the RAND HRS

Earnings income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Unlike the RAND HRS, RwIEARN in CHARLS only includes wages and bonus income and taking the maximum value of the wage income from either income module or work module. In RAND HRS, RwIEARN also includes 2nd job, overtime pay/commissions/tips, and professional practice or trade income.

Unlike the RAND HRS, total earnings in the Harmonized CHARLS includes the estimation of fringe benefits which are not asked in the HRS.

RwIFRING, SwIFRING, RwISEMP, SwISEMP, HwIFRING, HwISEMP, HHwIWAGEO, HHwIAGRI and HHwISEMP are not included in RAND HRS.

CHARLS Variables Used:

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Wave 1:
    FC001        Did you work for other famers in wage for at least ten d
    FC004        How many months did you work on [¡] in wage for other f
    FC007        What is the average monthly wage did you get in the last
    FC019        DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FE001        HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FE002        HOW MANY DAYS A WEEK DO YOU USUALLY WORK
    FE003        HOW MANY HOURS DO YOU USUALLY WORK PER DAY
    FF001        HOW IS YOUR WAGE PAID MAINLY
    FF002        THE AFTER TAX ANNUAL SALARY
    FF004        THE AFTER TAX AVERAGE MONTHLY SALARY
    FF006         THE USUAL WEEKLY WAGE
    FF008        THE USUAL DAILY WAGE
    FF010        YOUR HOURLY WAGE
    FF012        HOW MUCH IN AVERAGE DO YOU RECEIVE PER MONTH AFTER TAX
    FF014        the value of all other bonuses
    FG002_10_    THE VALUE OF THE SUBSIDY
    FG002_1_     THE VALUE OF THE SUBSIDY
    FG002_2_     THE VALUE OF THE SUBSIDY
    FG002_3_     THE VALUE OF THE SUBSIDY
    FG002_4_     THE VALUE OF THE SUBSIDY
    FG002_5_     THE VALUE OF THE SUBSIDY
    FG002_6_     THE VALUE OF THE SUBSIDY
    FG002_7_     THE VALUE OF THE SUBSIDY
    FG002_8_     THE VALUE OF THE SUBSIDY
    FG002_9_     THE VALUE OF THE SUBSIDY
    FH010        ESTIMATE OF NET INCOME EARNED FROM THIS ACTIVITY IN THE
    FJ003        THE AVERAGE MONTHLY INCOME
    GA001        Did you receive any wage and bonus income in the past ye
    GA002        How much did you receive last year?(yuan/year)
    GA002_1      or yuan/month
    GA006_1_10_  Salary Per Year
    GA006_1_11_  Salary Per Year
    GA006_1_12_  Salary Per Year
    GA006_1_13_  Salary Per Year
    GA006_1_14_  Salary Per Year
    GA006_1_15_  Salary Per Year
    GA006_1_1_   Salary Per Year
    GA006_1_2_   Salary Per Year
    GA006_1_3_   Salary Per Year
    GA006_1_4_   Salary Per Year
    GA006_1_5_   Salary Per Year
    GA006_1_6_   Salary Per Year
    GA006_1_7_   Salary Per Year
    GA006_1_8_   Salary Per Year
    GA006_1_9_   Salary Per Year
    GA006_2_10_  Salary Per Month
    GA006_2_11_  Salary Per Month
    GA006_2_12_  Salary Per Month
    GA006_2_13_  Salary Per Month
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        GA006_2_14_     Salary Per Month
        GA006_2_15_     Salary Per Month
        GA006_2_1_      Salary Per Month
        GA006_2_2_      Salary Per Month
        GA006_2_3_      Salary Per Month
        GA006_2_4_      Salary Per Month
        GA006_2_5_      Salary Per Month
        GA006_2_6_      Salary Per Month
        GA006_2_7_      Salary Per Month
        GA006_2_8_      Salary Per Month
        GA006_2_9_      Salary Per Month
        GB001           Did Your Household Engage in Agricultural Work
        GB002_10_       Did This Household Member Engage in Agricultural Work
        GB002_11_       Did This Household Member Engage in Agricultural Work
        GB002_12_       Did This Household Member Engage in Agricultural Work
        GB002_13_       Did This Household Member Engage in Agricultural Work
        GB002_14_       Did This Household Member Engage in Agricultural Work
        GB002_15_       Did This Household Member Engage in Agricultural Work
        GB002_16_       Did This Household Member Engage in Agricultural Work
        GB002_1_        Did This Household Member Engage in Agricultural Work
        GB002_2_        Did This Household Member Engage in Agricultural Work
        GB002_3_        Did This Household Member Engage in Agricultural Work
        GB002_4_        Did This Household Member Engage in Agricultural Work
        GB002_5_        Did This Household Member Engage in Agricultural Work
        GB002_6_        Did This Household Member Engage in Agricultural Work
        GB002_7_        Did This Household Member Engage in Agricultural Work
        GB002_8_        Did This Household Member Engage in Agricultural Work
        GB002_9_        Did This Household Member Engage in Agricultural Work
        GB003           Did Your Household Engage in Cropping or Forestry Last Y
        GB005           Value of All Crops and Forestry Products
        GB006           Total Cost of Producing Crops
        GB007           Did Your Household Grow Any Livestock or Fish Last Year
        GB008           Value of All Livestock
        GB009           Value of All Livestock and Aquatic Life at the Same Time
        GB010           HOW MUCH DID YOU SPEND PURCHASING NEW LIVESTOCK AND AQUA
        GB011           THE VALUE OF ALL LIVESTOCK AND AQUATIC LIFE THAT WERE SO
        GB012           THE VALUE OF ALL LIVESTOCK PRODUCTS PRODUCED
        GB013           THE COST OF PRODUCING LIVESTOCK AND AQUATIC LIFE LAST YE
        GC001           ENGAGE IN SELF-EMPLOYED ACTIVITIES
        GC005_1_        NET INCOME FROM THE ACTIVITY
        GC005_2_        NET INCOME FROM THE ACTIVITY
        GC005_3_        NET INCOME FROM THE ACTIVITY
Wave 2:
        A002_10_        gender of household member
        A002_11_        gender of household member
        A002_12_        gender of household member
        A002_1_         gender of household member
        A002_2_         gender of household member
        A002_3_         gender of household member
        A002_4_         gender of household member
        A002_5_         gender of household member
        A002_6_         gender of household member
        A002_7_         gender of household member
        A002_8_         gender of household member
        A002_9_         gender of household member
        A006_10_        relationship to you
        A006_11_        relationship to you
        A006_1_         relationship to you
        A006_2_         relationship to you
        A006_3_         relationship to you
        A006_4_         relationship to you
        A006_5_         relationship to you
        A006_6_         relationship to you
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A006_7_        relationship to you
A006_8_        relationship to you
A006_9_        relationship to you
FA006_W2_5     how many other jobs have you been doing from last iwr?
FA007          ever work 3 months
FA008          sure never work 3 months
FB011          completed retirement procedures or internal retirement
FB012          completed receding position procedures
FC001          any work for other farmers in wage
FC004          how many months did you work for other farmers
FC007          average monthly income
FC019          more than one non-agricultural job
FC020          main job
FC021          type of non-agricultural job
FE001          how many months did you work in the past year
FE002          how many days did you work per week
FE003          how many hours did you work per day
FF001          pattern of wage payment
FF002_1        after-tax salary of last year(yuan)
FF004_1        after-tax salary of last month(yuan)
FF006          after-tax salary of last week
FF008          daily wage
FF010          hourly wage
FF012_1        how much do you receive last month(yuan)
FF014          all other bonus in the past year
FG001S1        free lunch
FG001S10       other subsidies
FG001S11       none
FG001S2        free breakfast
FG001S3        free dinner
FG001S4        meal cash subsidy
FG001S5        transportation subsidizations
FG001S6        free housing
FG001S7        subsidization of housing
FG001S8        company car
FG001S9        company bus
FG002_10_      value of the subsidy per month corresponding to fg001
FG002_1_       value of the subsidy per month corresponding to fg001
FG002_2_       value of the subsidy per month corresponding to fg001
FG002_3_       value of the subsidy per month corresponding to fg001
FG002_4_       value of the subsidy per month corresponding to fg001
FG002_5_       value of the subsidy per month corresponding to fg001
FG002_6_       value of the subsidy per month corresponding to fg001
FG002_7_       value of the subsidy per month corresponding to fg001
FG002_8_       value of the subsidy per month corresponding to fg001
FG002_9_       value of the subsidy per month corresponding to fg001
FH009          do any other household member work in this activity
FH010          net income from this activity
FJ003          monthly income of side jobs
GA001          received wage last year
GA002          received amount of income
GA002_1        received amount of income: by year
GA002_2        received amount of income: by month
GA005_10_      household member [10] receives wage or bonus income
GA005_11_      household member [11] receives wage or bonus income
GA005_12_      household member [12] receives wage or bonus income
GA005_1_       household member [1] receives wage or bonus income
GA005_2_       household member [2] receives wage or bonus income
GA005_3_       household member [3] receives wage or bonus income
GA005_4_       household member [4] receives wage or bonus income
GA005_5_       household member [5] receives wage or bonus income
GA005_6_       household member [6] receives wage or bonus income
GA005_7_       household member [7] receives wage or bonus income
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GA005_8_        household member [8] receives wage or bonus income
GA005_9_        household member [9] receives wage or bonus income
GA006_1_10_     income of household member [10]: amount by year
GA006_1_11_     income of household member [11]: amount by year
GA006_1_12_     income of household member [12]: amount by year
GA006_1_1_      income of household member [1]: amount by year
GA006_1_2_      income of household member [2]: amount by year
GA006_1_3_      income of household member [3]: amount by year
GA006_1_4_      income of household member [4]: amount by year
GA006_1_5_      income of household member [5]: amount by year
GA006_1_6_      income of household member [6]: amount by year
GA006_1_7_      income of household member [7]: amount by year
GA006_1_8_      income of household member [8]: amount by year
GA006_1_9_      income of household member [9]: amount by year
GA006_2_10_     income of household member [10]: amount by month
GA006_2_11_     income of household member [11]: amount by month
GA006_2_12_     income of household member [12]: amount by month
GA006_2_1_      income of household member [1]: amount by month
GA006_2_2_      income of household member [2]: amount by month
GA006_2_3_      income of household member [3]: amount by month
GA006_2_4_      income of household member [4]: amount by month
GA006_2_5_      income of household member [5]: amount by month
GA006_2_6_      income of household member [6]: amount by month
GA006_2_7_      income of household member [7]: amount by month
GA006_2_8_      income of household member [8]: amount by month
GA006_2_9_      income of household member [9]: amount by month
GB001           other household members engage in agricultural work
GB002S1         household member [1] engaged in agricultural
GB002S10        household member [10] engaged in agricultural
GB002S11        household member [11] engaged in agricultural
GB002S12        household member [12] engaged in agricultural
GB002S13        household member [13] engaged in agricultural
GB002S14        household member [14] engaged in agricultural
GB002S2         household member [2] engaged in agricultural
GB002S3         household member [3] engaged in agricultural
GB002S4         household member [4] engaged in agricultural
GB002S5         household member [5] engaged in agricultural
GB002S6         household member [6] engaged in agricultural
GB002S7         household member [7] engaged in agricultural
GB002S8         household member [8] engaged in agricultural
GB002S9         household member [9] engaged in agricultural
GB003           engage in cropping or forestry
GB005_1         total value of crops and forestry
GB006           cost of crops and forestry
GB007           grow livestock or aquatic life
GB008           current value of livestock and aquatic life
GB009           value of livestock and aquatic life of last year
GB010           cost of purchasing new livestock and aquatic life
GB011_1         value of livestock and aquatic life, sold or consumed
GB012_1         value of livestock products produced, sold or consumed
GB013           cost of producing livestock and aquatic life
GC001           household members engage in self-employed businesse
GC002           number of participated small bussinesses
GC005_1_        income of the 1st self-employed business
GC005_2_        income of the 2nd self-employed business
GC005_3_        income of the 3rd self-employed business
GC005_4_        income of the 4th self-employed business
HD012           receive assistance in answering
XF1             preload work variable
XRTYPE          r interview type
ZA002_10_       gender of household member
ZA002_11_       gender of household member
ZA002_1_        gender of household member
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ZA002_2_        gender of household member
ZA002_3_        gender of household member
ZA002_4_        gender of household member
ZA002_5_        gender of household member
ZA002_6_        gender of household member
ZA002_7_        gender of household member
ZA002_8_        gender of household member
ZA002_9_        gender of household member
ZA006_10_       relationship to you
ZA006_11_       relationship to you
ZA006_1_        relationship to you
ZA006_2_        relationship to you
ZA006_3_        relationship to you
ZA006_4_        relationship to you
ZA006_5_        relationship to you
ZA006_6_        relationship to you
ZA006_7_        relationship to you
ZA006_8_        relationship to you
ZA006_9_        relationship to you
ZF13            preload variable
ZF14            preload variable
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┌─────────────────────────────────────────────────────────────────────────────┐
│                          Pension Income                                       │
└─────────────────────────────────────────────────────────────────────────────┘
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Wave Variable      Label                                                   Type

  1  R1IPENI       r1ipeni:w1 income: r pension income from income module   Cont
  2  R2IPENI       r2ipeni:w2 income: r pension income from income module   Cont

  1  S1IPENI       s1ipeni:w1 income: s pension income from income module   Cont
  2  S2IPENI       s2ipeni:w2 income: s pension income from income module   Cont

  1  R1IPENW       r1ipenw:w1 income: r pension income from work module     Cont
  2  R2IPENW       r2ipenw:w2 income: r pension income from work module     Cont

  1  S1IPENW       s1ipenw:w1 income: s pension income from work module     Cont
  2  S2IPENW       s2ipenw:w2 income: s pension income from work module     Cont

  1  R1IPEN        r1ipen:w1 income: r pension income from income or work modul  Cont
  2  R2IPEN        r2ipen:w2 income: r pension income from income or work modul  Cont

  1  S1IPEN        s1ipen:w1 income: s pension income from income or work modul  Cont
  2  S2IPEN        s2ipen:w2 income: s pension income from income or work modul  Cont

  1  H1IPEN        h1ipen:w1 income: r+s pension income from work module (coupl  Cont
  2  H2IPEN        h2ipen:w2 income: r+s pension income from work module (coupl  Cont

  1  HH1IPENO      hh1ipeno:w1 income: other hhold member pension income     Cont
  2  HH2IPENO      hh2ipeno:w2 income: other hhold member pension income     Cont

  1  HH1IPEN       hh1ipen:w1 income: hhold total pension income             Cont
  2  HH2IPEN       hh2ipen:w2 income: hhold total pension income             Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IPENI	17367	2256.07	7229.54	0.00	172800.00
R2IPENI	16646	3356.96	9123.52	0.00	276000.00
S1IPENI	14727	2169.42	7108.08	0.00	172800.00
S2IPENI	14092	3320.86	9184.30	0.00	276000.00
R1IPENW	16693	2887.23	8869.43	0.00	112800.00
R2IPENW	17593	3324.13	9113.30	0.00	108660.00
S1IPENW	14180	2760.08	8663.94	0.00	112800.00
S2IPENW	14940	3289.64	9125.52	0.00	108660.00
R1IPEN	17486	2957.07	9001.64	0.00	172800.00
R2IPEN	18200	3664.88	9669.90	0.00	276000.00
S1IPEN	14803	2836.73	8831.92	0.00	172800.00
S2IPEN	15352	3632.94	9746.77	0.00	276000.00
H1IPEN	16971	5288.83	14484.28	0.00	191760.00
H2IPEN	17519	6795.81	16079.93	0.00	296400.00
HH1IPENO	17339	167.36	2206.89	0.00	108000.00
HH2IPENO	18253	240.91	2512.71	0.00	86400.00
HH1IPEN	16755	5432.81	14646.82	0.00	166800.00
HH2IPEN	17226	7055.89	16477.16	0.00	296400.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

Respondents are asked to report their past year pension income in both income module and work module. These questions are asked to all respondents.

RwIPENI is the respondent's total pension income from income module. A respondent reports whether receiving any pension incomes from the following:

    1.Wages from government institutions and firms

    2.Supplemental pension of the firms and income from such programs as rural pension insurance

    3.Urban residents' pension and commercial pension insurance

    4.Pension subsidy for the old People

Respondents who indicate not receiving any pension income in the past year are assigned a value of 0 for RwIPENI. Respondents can report pension income in two ways: annually or monthly. We first take the reported annual amount. RwIPENI is derived first using the reported annual amount. If the annual amount is missing, RwIPENI is based on the monthly amount times 12.

RwIPENW is the respondent's total pension income from work module. In Wave 1, respondents are asked about pensions in two different sections of the Work, Retirement and Pension module. In the retirement section respondents who reported they are retired are asked whether their retirement was 1) normal retirement 2) early retirement 3) internal retirement first but then regular retirement 4) internal retirement, but not yet regular retirement. If the respondent reported their retirement was one type 1, 2, they are then asked the month and year they started to receive their pension benefits. If the respondent reported their retirement was one type 3, they are then asked the month and year they processed formal retirement. Respondents of retirement types 1, 2, and 3 are then asked whether they receive pension incomes from the following sources:

    1.Government

    2.Work Unit

    3.Social insurance agency

    4.Commercial insurance company

    5.Other

The respondents is then asked the monthly pension amount, without specificity to which pensions the respondents selected from the 5 pension sources.

In the pension insurance section respondents who reported they are receiving at least one kind of pension are asked what type of pension they are receiving from the following sources:

    1.Supplemental pension insurance of the firm

    2.Commercial pension

    3.Rural pension

    4.Resident's pension

    5.Urban resident's pension

    6.Pension subsidy to the oldest old

    7.Other

The respondent is then asked the month and year they started to receive each pension they reported receiving and the monthly benefit amount.

Starting in Wave 2 questions about pension income are only asked in the pension section of the Work, Retirement, and Pension module. Respondents are asked to report whether they receive pension incomes from the following sources:

    1.Government

    2.Institution

    3.Firm

    4.Supplemental pension insurance of the firm

    5.Commercial pension insurance

    6.Rural pension

    7.Residents' pension

    8.Urban residents' pension

    9.New rural social pension insurance

    10.Land expropriation pension insurance

    11.Old age pension allowance

    12.Other

The respondent is then asked the month and year they started to receive each pension they reported receiving and the monthly benefit amount.

In Wave 1, RwIPENW is derived by summing the annual pension amounts both from the retirement section and from the pension section. The annual pension amounts are derived by multiplying the monthly amount by the number of months the respondent received the pension in the last year as reported either from the question about when started to receive the pension or when processed formal retirement. Respondents who indicate not being retired or not receiving any pensions in the last year are assigned a value of 0.

Starting in Wave 2, RwIPENW is derived by summing the annual pension amounts from all 12 pension sources. The annual pension amounts are derived by multiplying the monthly amount by the number of months the respondent received the pension in the last year as reported from the question about when started to receive the pension. There are number of Wave 2 respondents with missing information for the month and year started to receive rural social pension insurance, for these respondents they are assumed to have received the reported monthly pension benefit amount for 12 months in the last year. The current Wave 2 CHARLS release does not include the month and year started to receive an other pension so 12 months in the last year is assumed for respondent who

reported an average monthly pension benefit amount for an other pension. Respondents
who indicate not receiving any of the pension types in the last year are assigned a
value of 0.

Don't know, refused, or other missing responses of RwIPENI or RwIPENW are assigned
special missing codes .d, .r, .m respectively. RwIPENI or RwIPENW are set to plain
missing (.) for respondents who did not respond to this wave.

RwIPEN is the maximum value of respondent's earnings from either RwIPENI or RwIPENW.

SwIPENI, SwIPENW and SwIPEN are taken directly from the spouse's value to RwIPENI,
RwIPENW and RwIPEN. Special missing value .u is used when the respondent does not
report being coupled in the current wave. Special missing value .v is used when the
respondent reports being coupled in the current wave but their spouse is not
interviewed.

HwIPEN is the household pension income in the past year at the couple level; that is,
the sum of RwIPEN and SwIPEN. In addition to the special missing values of RwIPEN and
SwIPEN, special missing value .b is assigned if the respondent's spouse is absent.

HHwIPENO is the total value of other household member's pension income from income
module. The financial respondent reports whether each of the household member received
any pension incomes from the following:

    1.Wages from government institutions and firms

    2.Supplemental pension of the firms and income from such programs as rural
pension insurance

    3.Urban residents' pension and commercial pension insurance

    4.Pension subsidy for the old people

If the financial respondent indicates that the household member received pension
income in the past year, then the amount was reported. If the financial respondent
indicated that the household member did not receive any pension income in the past
year the value of pension is not asked and HHwIPENO is assigned a value of 0.
Financial respondents can report the amount of pension income in two ways: annually or
monthly. HHwIPENO is derived first using the reported annual amount. If the annual
amount is missing, HHwIPENO is based on the monthly amount times 12. Don't know,
refused, or other missing responses of HHwIPENO are assigned special missing codes .d,
.r, .m respectively. HHwIPENO is set to plain missing (.) for respondents who did not
respond to this wave.

HHwIPEN is the summary of total household pension income. This variable includes
individual pension income and other household members' pension income.

HHwIPEN = HwIPEN + HHwIPENO

Cross Wave Differences in CHARLS

In Wave 1, RwIPENW is derived by summing the annual pension amounts both from the
retirement section and from the pension section. The annual pension amounts are
derived by multiplying the monthly amount by the number of months the respondent
received the pension in the last year as reported either from the question about when
started to receive the pension or when processed formal retirement.

Starting in Wave 2, RwIPENW is derived by summing the annual pension amounts from all
12 pension sources. The annual pension amounts are derived by multiplying the monthly
amount by the number of months the respondent received the pension in the last year as
reported from the question about when started to receive the pension. There are number
of Wave 2 respondents with missing information for the month and year started to
receive rural social pension insurance, for these respondents they are assumed to have

received the reported monthly pension benefit amount for 12 months in the last year.
The current Wave 2 CHARLS release does not include the month and year started to
receive another pension so 12 months in the last year is assumed for respondent who
reported an average monthly pension benefit amount for another pension.

In the current release of the CHARLS data there is a high number of individuals with
completely missing information in the Wave 2 Individual Income file. These missings
affect RwIPENI.

Differences with the RAND HRS

Pension income in CHARLS are measured in China's currency Yuan whereas the equivalent
measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common
currency is necessary before comparison of these data.

CHARLS Variables Used:

```
Wave 1:
    FB011          PROCESSED RETIREMENT
    FM018_1        year
    FM018_2        month
    FM022          WHAT IS YOUR MONTHLY PENSION
    FM030_1        year
    FM030_2        month
    FM034          What is your monthly pension?
    FN003_1        year
    FN003_2        month
    FN004          WHAT IS YOUR MONTHLY BENEFITS
    FN006_1        year
    FN006_2        month
    FN007          WHAT IS YOUR MONTHLY BENEFITS
    FN012_1        year
    FN012_2        month
    FN017_1        year
    FN017_2        month
    FN018          How much do you receive now?(per month)
    FN021_1        yaer
    FN021_2        month
    FN022          How much do you receive now?
    FN078_1        Year
    FN078_2        Month
    FN079          How much do you receive every month?  $Answer$ Yuan/ mon
    GA003S1        Show Card31  Did you receive any of the following types
    GA004_1_1_     Yuan/Year
    GA004_2_1_     Yuan/Month
    GA008_1_A_1_   Yuan/Year of Pension
    GA008_1_A_26_  Yuan/Year of Pension
    GA008_1_A_2_   Yuan/Year of Pension
    GA008_1_A_3_   Yuan/Year of Pension
    GA008_1_A_4_   Yuan/Year of Pension
    GA008_1_A_5_   Yuan/Year of Pension
    GA008_1_A_6_   Yuan/Year of Pension
    GA008_1_A_7_   Yuan/Year of Pension
    GA008_1_A_8_   Yuan/Year of Pension
    GA008_1_A_9_   Yuan/Year of Pension
    GA008_1_B_1_   Yuan/Month of Pension
    GA008_1_B_26_  Yuan/Month of Pension
    GA008_1_B_2_   Yuan/Month of Pension
    GA008_1_B_3_   Yuan/Month of Pension
    GA008_1_B_4_   Yuan/Month of Pension
    GA008_1_B_5_   Yuan/Month of Pension
    GA008_1_B_6_   Yuan/Month of Pension
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    GA008_1_B_7_    Yuan/Month of Pension
    GA008_1_B_8_    Yuan/Month of Pension
    GA008_1_B_9_    Yuan/Month of Pension
Wave 2:
    A002_10_        gender of household member
    A002_11_        gender of household member
    A002_12_        gender of household member
    A002_1_         gender of household member
    A002_2_         gender of household member
    A002_3_         gender of household member
    A002_4_         gender of household member
    A002_5_         gender of household member
    A002_6_         gender of household member
    A002_7_         gender of household member
    A002_8_         gender of household member
    A002_9_         gender of household member
    A006_10_        relationship to you
    A006_11_        relationship to you
    A006_1_         relationship to you
    A006_2_         relationship to you
    A006_3_         relationship to you
    A006_4_         relationship to you
    A006_5_         relationship to you
    A006_6_         relationship to you
    A006_7_         relationship to you
    A006_8_         relationship to you
    A006_9_         relationship to you
    FB011           completed retirement procedures or internal retirement
    FB012           completed receding position procedures
    FN002_W2S1      are you currently receiving pension program of the gover
    FN002_W2S2      are you currently receiving pension program of staffing
    FN002_W2S3      are you currently receiving pension insurance of the fir
    FN002_W2S4      are you currently receiving following pension?
    FN003_W2_1_1_   when did you start receiving pension benefits(year) corr
    FN003_W2_1_2_   when did you start receiving pension benefits(year) corr
    FN003_W2_1_3_   when did you start receiving pension benefits(year) corr
    FN003_W2_2_1_   when did you start receiving pension benefits(month) cor
    FN003_W2_2_2_   when did you start receiving pension benefits(month) cor
    FN003_W2_2_3_   when did you start receiving pension benefits(month) cor
    GA003S1         receives pension
    GA003S10        none of the above
    GA003S2         receives unemployment compensation
    GA003S3         receives pension subsidy
    GA003S4         receives workers¡¯compensation
    GA003S5         receives elderly family planning subsidies
    GA003S6         receives medical aid
    GA003S7         receives other government subsidies
    GA003S8         receives social assistance
    GA003S9         receives other income sources
    GA004_1_1_      amount by year: pension
    GA004_2_1_      amount by month: pension
    GA007_1
    GA007_10_S1     household member [10] receives pensions
    GA007_10_S2     household member [10] receives unemployment compensation
    GA007_10_S3     household member [10] receives pension subsidy
    GA007_10_S4     household member [10] receives worker's compensation
    GA007_10_S5     household member [10] receives elderly family planning s
    GA007_10_S6     household member [10] receives medical aid
    GA007_10_S7     household member [10] receives other government subsidie
    GA007_10_S8     household member [10] receives social assistance
    GA007_10_S9     household member [10] receives other income sources
    GA007_11_S1     household member [11] receives pensions
    GA007_11_S2     household member [11] receives unemployment compensation
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GA007_11_S3    household member [11] receives pension subsidy
GA007_11_S4    household member [11] receives worker's compensation
GA007_11_S5    household member [11] receives elderly family planning s
GA007_11_S6    household member [11] receives medical aid
GA007_11_S7    household member [11] receives other government subsidie
GA007_11_S8    household member [11] receives social assistance
GA007_11_S9    household member [11] receives other income sources
GA007_12_S1    household member [12] receives pensions
GA007_12_S2    household member [12] receives unemployment compensation
GA007_12_S3    household member [12] receives pension subsidy
GA007_12_S4    household member [12] receives worker's compensation
GA007_12_S5    household member [12] receives elderly family planning s
GA007_12_S6    household member [12] receives medical aid
GA007_12_S7    household member [12] receives other government subsidie
GA007_12_S8    household member [12] receives social assistance
GA007_12_S9    household member [12] receives other income sources
GA007_1_S1     household member [1] receives pensions
GA007_1_S10    household member [1] receives none of the above
GA007_1_S2     household member [1] receives unemployment compensation
GA007_1_S3     household member [1] receives pension subsidy
GA007_1_S4     household member [1] receives worker's compensation
GA007_1_S5     household member [1] receives elderly family planning su
GA007_1_S6     household member [1] receives medical aid
GA007_1_S7     household member [1] receives other government subsidies
GA007_1_S8     household member [1] receives social assistance
GA007_1_S9     household member [1] receives other income sources
GA007_2_S1     household member [2] receives pensions
GA007_2_S10    household member [2] receives none of the above
GA007_2_S2     household member [2] receives unemployment compensation
GA007_2_S3     household member [2] receives pension subsidy
GA007_2_S4     household member [2] receives worker's compensation
GA007_2_S5     household member [2] receives elderly family planning su
GA007_2_S6     household member [2] receives medical aid
GA007_2_S7     household member [2] receives other government subsidies
GA007_2_S8     household member [2] receives social assistance
GA007_2_S9     household member [2] receives other income sources
GA007_3_S1     household member [3] receives pensions
GA007_3_S10    household member [3] receives none of the above
GA007_3_S2     household member [3] receives unemployment compensation
GA007_3_S3     household member [3] receives pension subsidy
GA007_3_S4     household member [3] receives worker's compensation
GA007_3_S5     household member [3] receives elderly family planning su
GA007_3_S6     household member [3] receives medical aid
GA007_3_S7     household member [3] receives other government subsidies
GA007_3_S8     household member [3] receives social assistance
GA007_3_S9     household member [3] receives other income sources
GA007_4_S1     household member [4] receives pensions
GA007_4_S10    household member [4] receives none of the above
GA007_4_S2     household member [4] receives unemployment compensation
GA007_4_S3     household member [4] receives pension subsidy
GA007_4_S4     household member [4] receives worker's compensation
GA007_4_S5     household member [4] receives elderly family planning su
GA007_4_S6     household member [4] receives medical aid
GA007_4_S7     household member [4] receives other government subsidies
GA007_4_S8     household member [4] receives social assistance
GA007_4_S9     household member [4] receives other income sources
GA007_5_S1     household member [5] receives pensions
GA007_5_S10    household member [5] receives none of the above
GA007_5_S2     household member [5] receives unemployment compensation
GA007_5_S3     household member [5] receives pension subsidy
GA007_5_S4     household member [5] receives worker's compensation
GA007_5_S5     household member [5] receives elderly family planning su
GA007_5_S6     household member [5] receives medical aid
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GA007_5_S7       household member [5] receives other government subsidies
GA007_5_S8       household member [5] receives social assistance
GA007_5_S9       household member [5] receives other income sources
GA007_6_S1       household member [6] receives pensions
GA007_6_S10      household member [6] receives none of the above
GA007_6_S2       household member [6] receives unemployment compensation
GA007_6_S3       household member [6] receives pension subsidy
GA007_6_S4       household member [6] receives worker's compensation
GA007_6_S5       household member [6] receives elderly family planning su
GA007_6_S6       household member [6] receives medical aid
GA007_6_S7       household member [6] receives other government subsidies
GA007_6_S8       household member [6] receives social assistance
GA007_6_S9       household member [6] receives other income sources
GA007_7_S1       household member [7] receives pensions
GA007_7_S10      household member [7] receives none of the above
GA007_7_S2       household member [7] receives unemployment compensation
GA007_7_S3       household member [7] receives pension subsidy
GA007_7_S4       household member [7] receives worker's compensation
GA007_7_S5       household member [7] receives elderly family planning su
GA007_7_S6       household member [7] receives medical aid
GA007_7_S7       household member [7] receives other government subsidies
GA007_7_S8       household member [7] receives social assistance
GA007_7_S9       household member [7] receives other income sources
GA007_8_S1       household member [8] receives pensions
GA007_8_S10      household member [8] receives none of the above
GA007_8_S2       household member [8] receives unemployment compensation
GA007_8_S3       household member [8] receives pension subsidy
GA007_8_S4       household member [8] receives worker's compensation
GA007_8_S5       household member [8] receives elderly family planning su
GA007_8_S6       household member [8] receives medical aid
GA007_8_S7       household member [8] receives other government subsidies
GA007_8_S8       household member [8] receives social assistance
GA007_8_S9       household member [8] receives other income sources
GA007_9_S1       household member [9] receives pensions
GA007_9_S10      household member [9] receives none of the above
GA007_9_S2       household member [9] receives unemployment compensation
GA007_9_S3       household member [9] receives pension subsidy
GA007_9_S4       household member [9] receives worker's compensation
GA007_9_S5       household member [9] receives elderly family planning su
GA007_9_S6       household member [9] receives medical aid
GA007_9_S7       household member [9] receives other government subsidies
GA007_9_S8       household member [9] receives social assistance
GA007_9_S9       household member [9] receives other income sources
HD012            receive assistance in answering
ZA002_10_        gender of household member
ZA002_11_        gender of household member
ZA002_1_         gender of household member
ZA002_2_         gender of household member
ZA002_3_         gender of household member
ZA002_4_         gender of household member
ZA002_5_         gender of household member
ZA002_6_         gender of household member
ZA002_7_         gender of household member
ZA002_8_         gender of household member
ZA002_9_         gender of household member
ZA006_10_        relationship to you
ZA006_11_        relationship to you
ZA006_1_         relationship to you
ZA006_2_         relationship to you
ZA006_3_         relationship to you
ZA006_4_         relationship to you
ZA006_5_         relationship to you
ZA006_6_         relationship to you
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ZA006_7_        relationship to you
ZA006_8_        relationship to you
ZA006_9_        relationship to you
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Government Transfers Income

Wave	Variable	Label	Type
1	R1IGXFR	r1igxfr:w1 income: r government transfer	Cont
2	R2IGXFR	r2igxfr:w2 income: r government transfer	Cont
1	S1IGXFR	s1igxfr:w1 income: s government transfer	Cont
2	S2IGXFR	s2igxfr:w2 income: s government transfer	Cont
1	H1IGXFR	h1igxfr:w1 income: r+s government transfer (couple level)	Cont
2	H2IGXFR	h2igxfr:w2 income: r+s government transfer (couple level)	Cont
1	HH1IGXFRO	hh1igxfro:w1 income: other hhold member government transfer	Cont
2	HH2IGXFRO	hh2igxfro:w2 income: other hhold member government transfer	Cont
1	HH1IGXFRH	hh1igxfrh:w1 income: hhold other government transfer income	Cont
2	HH2IGXFRH	hh2igxfrh:w2 income: hhold other government transfer income	Cont
1	HH1IGXFRT	hh1igxfrt:w1 income: hhold other public transfer income	Cont
2	HH2IGXFRT	hh2igxfrt:w2 income: hhold other public transfer income	Cont
1	HH1IGXFR	hh1igxfr:w1 income: hhold total government transfers	Cont
2	HH2IGXFR	hh2igxfr:w2 income: hhold total government transfers	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IGXFR	17370	71.72	771.17	0.00	70000.00
R2IGXFR	16671	90.35	761.19	0.00	40000.00
S1IGXFR	14730	58.82	752.17	0.00	70000.00
S2IGXFR	14104	80.47	766.07	0.00	40000.00
H1IGXFR	16832	122.69	1064.82	0.00	70000.00
H2IGXFR	14944	164.10	1130.64	0.00	40920.00
HH1IGXFRO	17324	42.23	409.76	0.00	22800.00
HH2IGXFRO	18238	65.50	737.96	0.00	24435.00
HH1IGXFRH	17139	473.03	1025.17	0.00	20000.00
HH2IGXFRH	17135	566.71	1330.01	0.00	32000.00
HH1IGXFRT	17393	401.31	5911.00	0.00	330000.00
HH2IGXFRT	17657	868.92	19524.90	0.00	1600000.00
HH1IGXFR	16298	1031.28	6162.88	0.00	330000.00
HH2IGXFR	14313	1804.79	21670.18	0.00	1600000.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

RwIGXFR is the respondent's total government transfer income.

Respondents report whether they receive any government transfer income from the following subsides:

     1.Unemployment compensation

     2.Pension subsidy

     3.Worker's compensation from industrial accident compensation insurance includes wage-replacement benefits, disability benefit and survivor benefit

     4.Elderly family planning subsides

     5.Medical aid

     6.Other government subsidies

     7.Social assistance

Respondents who indicate that they do not receive any government transfer income in the past year are not asked the value of government transfer and are assigned a value of 0 for RwIGXFR. Respondents can report government transfer income in two ways: annually or monthly. RwIGXFR is derived first using the reported annual amount. If the annual amount is missing, RwIGXFR is based on the monthly amount times 12. Don't know, refused, or other missing responses of RwIGXFR are assigned special missing codes .d, .r, .m respectively. RwIGXFR is set to plain missing (.) for respondents who did not respond to this wave.

SwIGXFR is taken directly from the spouse's values to RwIGXFR. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwIGXFR is the total household government transfer income at the couple level; that is, the sum of RwIGXFR and SwIGXFR. In addition to the special missing values of RwIGXFR and SwIGXFR, special missing value .b is assigned if the respondent's spouse is absent.

HHwIGXFRO is the total value of the other household members' government transfer income. The government transfer income questions are asked in the household income section.

The financial respondent reports whether each of the household members received any government transfer incomes from the following subsides:

     1.Unemployment compensation

     2.Pension subsidy

     3.Worker's compensation from industrial accident compensation insurance includes wage-replacement benefits, disability benefit and survivor benefit

     4.Elderly family planning subsides

     5.Medical aid

     6.Other government subsidies

     7.Social assistance

If the financial respondent indicates that the household member has not received any government transfer income in the past year, the value of government transfer is not asked and HHwIGXFRO is assigned a value of 0. Respondents can report other household

member's government transfer income in two ways: annually or monthly. HHwIGXFRO is derived first using the reported annual amount. If the annual amount is missing, HHwIGXFRO is based on the monthly amount times 12. Don't know, refused, or other missing responses of HHwIGXFRO are assigned special missing codes .d, .r, .m respectively. HHwIGXFRO is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFRH is the total other government transfer income paid to the whole household in the past year. This variable includes not only the respondent and/or spouse's government transfer incomes, but also includes other household members' government transfer income. The household government transfer income and other household members' government transfer income questions are reported by financial respondent in the household income section.

A financial respondent reports total household government transfer income from the following subsidies:

    1.Dibao

    2.Subsidy from reforestation

    3.bgricultural subsides

    4.Wubaohu

    5.Tekunhu

    6.Work injury subsidies to the immediate family members

    7.Emergency or disaster relief (jiujikuan, jiuzaikuan)

    8.Other subsides

If the financial respondent indicates that the household has not received any household government transfer income in the past year, the household value of government transfer is not asked and HHwIGXFRH is assigned a value of 0. Respondents can report household government transfer income in two ways: annually or monthly. HHwIGXFRH is derived first using the reported annual amount. If the annual amount is missing, HHwIGXFRH is based on the monthly amount times 12. Don't know, refused, or other missing responses of HHwIGXFRH are assigned special missing codes .d, .r, .m respectively. HHwIGXFRH is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFRT is the total value of other public transfer income at the household level in the past year. This variable includes not only the respondent and/or spouse's other public transfer incomes, but also includes other household members' other public transfer income. The value of household other public transfer income questions are reported by a financial respondent in the household income section.

The financial respondent reports total household other public transfer income from the following sources:

    1.   Donation from the society, including cash, and items like food, clothing, etc.

    2.   Compensation for land seizure

    3.   Compensation to pulling down the house or apartment

If the financial respondent indicates that the household has not receive any other public transfer income in the past year, the value of other public transfer is not asked and HHwIGXFRT is assigned a value of 0. Respondents can report other public transfer income in two ways: annually or monthly. HHwIGXFRT is derived first using the

reported annual amount. If the annual amount is missing, HHwIGXFRT is based on the monthly amount times 12. Don't know, refused, or other missing responses of HHwIGXFRT are assigned special missing codes .d, .r, .m respectively. HHwIGXFRT is set to plain missing (.) for respondents who did not respond to this wave.

HHwIGXFR is the summary of the total household public transfer that includes individual government transfer income, other household members' government transfer income, household level public transfer and other public transfer at the household level.

HHwIGXFR = HwIGXFR + HHwIGXFRO + HHwIGXFRH + HHwIGXFRT.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwIGXFR.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Public Transfer Income section in the Wave 2 Household Income file. These missings affect HHwIGXFRH and HHwIGXFRT.

Differences with the RAND HRS

Government transfer income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The information contained in this variable corresponds to the aggregate of the information contained in the RAND-HRS variables related to income from Social Security DI or SSI, income from unemployment or workers compensation and individual income from other government transfers. However, components included in Harmonized CHARLS and RAND HRS are different for this variable, representing different institutional arrangements in each country.

CHARLS Variables Used:

```
Wave 1:
    GA003S2        Show Card31  Did you receive any of the following types
    GA003S2        Show Card31  Did you receive any of the following types
    GA003S3        Show Card31  Did you receive any of the following types
    GA003S3        Show Card31  Did you receive any of the following types
    GA003S4        Show Card31  Did you receive any of the following types
    GA003S4        Show Card31  Did you receive any of the following types
    GA003S5        Show Card31  Did you receive any of the following types
    GA003S5        Show Card31  Did you receive any of the following types
    GA003S6        Show Card31  Did you receive any of the following types
    GA003S6        Show Card31  Did you receive any of the following types
    GA003S7        Show Card31  Did you receive any of the following types
    GA003S7        Show Card31  Did you receive any of the following types
    GA003S8        Show Card31  Did you receive any of the following types
    GA003S8        Show Card31  Did you receive any of the following types
    GA004_1_2_     Yuan/Year
    GA004_1_2_     Yuan/Year
    GA004_1_3_     Yuan/Year
    GA004_1_3_     Yuan/Year
    GA004_1_4_     Yuan/Year
    GA004_1_4_     Yuan/Year
    GA004_1_5_     Yuan/Year
    GA004_1_5_     Yuan/Year
    GA004_1_6_     Yuan/Year
    GA004_1_6_     Yuan/Year
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GA004_1_7_      Yuan/Year
GA004_1_7_      Yuan/Year
GA004_1_8_      Yuan/Year
GA004_1_8_      Yuan/Year
GA004_2_2_      Yuan/Month
GA004_2_2_      Yuan/Month
GA004_2_3_      Yuan/Month
GA004_2_3_      Yuan/Month
GA004_2_4_      Yuan/Month
GA004_2_4_      Yuan/Month
GA004_2_5_      Yuan/Month
GA004_2_5_      Yuan/Month
GA004_2_6_      Yuan/Month
GA004_2_6_      Yuan/Month
GA004_2_7_      Yuan/Month
GA004_2_7_      Yuan/Month
GA004_2_8_      Yuan/Month
GA004_2_8_      Yuan/Month
GA008_2_A_3_    Yuan/Year of Unemployment Compensation
GA008_2_A_4_    Yuan/Year of Unemployment Compensation
GA008_2_B_3_    Yuan/Month of Unemployment Compensation
GA008_2_B_4_    Yuan/Month of Unemployment Compensation
GA008_3_A_11_   Yuan/Year of Pension Subsidy
GA008_3_A_1_    Yuan/Year of Pension Subsidy
GA008_3_A_2_    Yuan/Year of Pension Subsidy
GA008_3_A_3_    Yuan/Year of Pension Subsidy
GA008_3_A_4_    Yuan/Year of Pension Subsidy
GA008_3_A_6_    Yuan/Year of Pension Subsidy
GA008_3_A_7_    Yuan/Year of Pension Subsidy
GA008_3_A_9_    Yuan/Year of Pension Subsidy
GA008_3_B_11_   Yuan/Month of Pension Subsidy
GA008_3_B_1_    Yuan/Month of Pension Subsidy
GA008_3_B_2_    Yuan/Month of Pension Subsidy
GA008_3_B_3_    Yuan/Month of Pension Subsidy
GA008_3_B_4_    Yuan/Month of Pension Subsidy
GA008_3_B_6_    Yuan/Month of Pension Subsidy
GA008_3_B_7_    Yuan/Month of Pension Subsidy
GA008_3_B_9_    Yuan/Month of Pension Subsidy
GA008_4_A_1_    Yuan/Year of Worker's Compensation
GA008_4_A_2_    Yuan/Year of Worker's Compensation
GA008_4_A_3_    Yuan/Year of Worker's Compensation
GA008_4_A_4_    Yuan/Year of Worker's Compensation
GA008_4_A_6_    Yuan/Year of Worker's Compensation
GA008_4_B_1_    Yuan/Month of Worker's Compensation
GA008_4_B_2_    Yuan/Month of Worker's Compensation
GA008_4_B_3_    Yuan/Month of Worker's Compensation
GA008_4_B_4_    Yuan/Month of Worker's Compensation
GA008_4_B_6_    Yuan/Month of Worker's Compensation
GA008_5_A_1_    Yuan/Year of Family Planning Subsidy
GA008_5_A_2_    Yuan/Year of Family Planning Subsidy
GA008_5_A_3_    Yuan/Year of Family Planning Subsidy
GA008_5_A_4_    Yuan/Year of Family Planning Subsidy
GA008_5_A_5_    Yuan/Year of Family Planning Subsidy
GA008_5_A_6_    Yuan/Year of Family Planning Subsidy
GA008_5_A_7_    Yuan/Year of Family Planning Subsidy
GA008_5_B_1_    Yuan/Month of Family Planning Subsidy
GA008_5_B_2_    Yuan/Month of Family Planning Subsidy
GA008_5_B_3_    Yuan/Month of Family Planning Subsidy
GA008_5_B_4_    Yuan/Month of Family Planning Subsidy
GA008_5_B_5_    Yuan/Month of Family Planning Subsidy
GA008_5_B_6_    Yuan/Month of Family Planning Subsidy
GA008_5_B_7_    Yuan/Month of Family Planning Subsidy
GA008_6_A_1_    Yuan/Year of Medical Aid
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GA008_6_A_26_   Yuan/Year of Medical Aid
GA008_6_A_2_    Yuan/Year of Medical Aid
GA008_6_A_3_    Yuan/Year of Medical Aid
GA008_6_A_4_    Yuan/Year of Medical Aid
GA008_6_A_5_    Yuan/Year of Medical Aid
GA008_6_A_6_    Yuan/Year of Medical Aid
GA008_6_A_7_    Yuan/Year of Medical Aid
GA008_6_B_1_    Yuan/Month of Medical Aid
GA008_6_B_26_   Yuan/Month of Medical Aid
GA008_6_B_2_    Yuan/Month of Medical Aid
GA008_6_B_3_    Yuan/Month of Medical Aid
GA008_6_B_4_    Yuan/Month of Medical Aid
GA008_6_B_5_    Yuan/Month of Medical Aid
GA008_6_B_6_    Yuan/Month of Medical Aid
GA008_6_B_7_    Yuan/Month of Medical Aid
GA008_7_A_1_    Yuan/Year of Other Government Subsidy
GA008_7_A_2_    Yuan/Year of Other Government Subsidy
GA008_7_A_3_    Yuan/Year of Other Government Subsidy
GA008_7_A_4_    Yuan/Year of Other Government Subsidy
GA008_7_A_5_    Yuan/Year of Other Government Subsidy
GA008_7_A_6_    Yuan/Year of Other Government Subsidy
GA008_7_A_7_    Yuan/Year of Other Government Subsidy
GA008_7_B_1_    Yuan/Month of Other Government Subsidy
GA008_7_B_2_    Yuan/Month of Other Government Subsidy
GA008_7_B_3_    Yuan/Month of Other Government Subsidy
GA008_7_B_4_    Yuan/Month of Other Government Subsidy
GA008_7_B_5_    Yuan/Month of Other Government Subsidy
GA008_7_B_6_    Yuan/Month of Other Government Subsidy
GA008_7_B_7_    Yuan/Month of Other Government Subsidy
GA008_8_A_1_    Yuan/Year of Social Assistance
GA008_8_A_2_    Yuan/Year of Social Assistance
GA008_8_A_3_    Yuan/Year of Social Assistance
GA008_8_A_4_    Yuan/Year of Social Assistance
GA008_8_A_5_    Yuan/Year of Social Assistance
GA008_8_A_6_    Yuan/Year of Social Assistance
GA008_8_A_8_    Yuan/Year of Social Assistance
GA008_8_B_1_    Yuan/Month of Social Assistance
GA008_8_B_2_    Yuan/Month of Social Assistance
GA008_8_B_3_    Yuan/Month of Social Assistance
GA008_8_B_4_    Yuan/Month of Social Assistance
GA008_8_B_5_    Yuan/Month of Social Assistance
GA008_8_B_6_    Yuan/Month of Social Assistance
GA008_8_B_8_    Yuan/Month of Social Assistance
GD001           Did your household receive Dibao assistance last year?
GD001_C         Value of Dibao (Yuan)
GD002S1         Whether Receive This Subsidy
GD002S2         Whether Receive This Subsidy
GD002S3         Whether Receive This Subsidy
GD002S4         Whether Receive This Subsidy
GD002S5         Whether Receive This Subsidy
GD002S6         Whether Receive This Subsidy
GD002S7         Whether Receive This Subsidy
GD002_1         TUIGENGHUANLIN
GD002_2         AGRICULTURAL SUBSIDIES
GD002_3         WUBAOHU
GD002_4         TEKUNHU
GD002_5         Work injury subsidies to the immediate family members
GD002_6         EMERGENCY OR DISASTER RELIEF
GD002_7         THE MONEY FOR OTHER
GD003S1         INCOME FROM THE FOLLOWING SOURCES
GD003S2         INCOME FROM THE FOLLOWING SOURCES
GD003S3         INCOME FROM THE FOLLOWING SOURCES
GD003_1         DONATIONS FROM THE SOCIETY
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      GD003_2          COMPENSATION FOR LAND SEIZURE
      GD003_3          COMPENSATION TO PULLING DOWN YOUR HOUSE OR APARTMENT
Wave 2:
      A002_10_         gender of household member
      A002_11_         gender of household member
      A002_12_         gender of household member
      A002_1_          gender of household member
      A002_2_          gender of household member
      A002_3_          gender of household member
      A002_4_          gender of household member
      A002_5_          gender of household member
      A002_6_          gender of household member
      A002_7_          gender of household member
      A002_8_          gender of household member
      A002_9_          gender of household member
      A006_10_         relationship to you
      A006_11_         relationship to you
      A006_1_          relationship to you
      A006_2_          relationship to you
      A006_3_          relationship to you
      A006_4_          relationship to you
      A006_5_          relationship to you
      A006_6_          relationship to you
      A006_7_          relationship to you
      A006_8_          relationship to you
      A006_9_          relationship to you
      GA003S1          receives pension
      GA003S10         none of the above
      GA003S2          receives unemployment compensation
      GA003S3          receives pension subsidy
      GA003S4          receives workers¡¯compensation
      GA003S5          receives elderly family planning subsidies
      GA003S6          receives medical aid
      GA003S7          receives other government subsidies
      GA003S8          receives social assistance
      GA003S9          receives other income sources
      GA004_1_2_       amount by year: unemployment compensation
      GA004_1_3_       amount by year: pension subsidy
      GA004_1_4_       amount by year: workers¡¯compensation
      GA004_1_5_       amount by year: elderly family planning subsidies
      GA004_1_6_       amount by year: medical aid
      GA004_1_7_       amount by year: other government subsidies
      GA004_1_8_       amount by year: social assistance
      GA004_2_1_       amount by month: pension
      GA004_2_2_       amount by month: unemployment compensation
      GA004_2_3_       amount by month: pension subsidy
      GA004_2_4_       amount by month: workers¡¯compensation
      GA004_2_6_       amount by month: medical aid
      GA004_2_7_       amount by month: other government subsidies
      GA004_2_8_       amount by month: social assistance
      GA007_10_
      GA007_10_S1      household member [10] receives pensions
      GA007_10_S2      household member [10] receives unemployment compensation
      GA007_10_S3      household member [10] receives pension subsidy
      GA007_10_S4      household member [10] receives worker's compensation
      GA007_10_S5      household member [10] receives elderly family planning s
      GA007_10_S6      household member [10] receives medical aid
      GA007_10_S7      household member [10] receives other government subsidie
      GA007_10_S8      household member [10] receives social assistance
      GA007_10_S9      household member [10] receives other income sources
      GA007_11_S1      household member [11] receives pensions
      GA007_11_S2      household member [11] receives unemployment compensation
      GA007_11_S3      household member [11] receives pension subsidy
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GA007_11_S4    household member [11] receives worker's compensation
GA007_11_S5    household member [11] receives elderly family planning s
GA007_11_S6    household member [11] receives medical aid
GA007_11_S7    household member [11] receives other government subsidie
GA007_11_S8    household member [11] receives social assistance
GA007_11_S9    household member [11] receives other income sources
GA007_12_S1    household member [12] receives pensions
GA007_12_S2    household member [12] receives unemployment compensation
GA007_12_S3    household member [12] receives pension subsidy
GA007_12_S4    household member [12] receives worker's compensation
GA007_12_S5    household member [12] receives elderly family planning s
GA007_12_S6    household member [12] receives medical aid
GA007_12_S7    household member [12] receives other government subsidie
GA007_12_S8    household member [12] receives social assistance
GA007_12_S9    household member [12] receives other income sources
GA007_1_S1     household member [1] receives pensions
GA007_1_S10    household member [1] receives none of the above
GA007_1_S2     household member [1] receives unemployment compensation
GA007_1_S3     household member [1] receives pension subsidy
GA007_1_S4     household member [1] receives worker's compensation
GA007_1_S5     household member [1] receives elderly family planning su
GA007_1_S6     household member [1] receives medical aid
GA007_1_S7     household member [1] receives other government subsidies
GA007_1_S8     household member [1] receives social assistance
GA007_1_S9     household member [1] receives other income sources
GA007_2_S1     household member [2] receives pensions
GA007_2_S10    household member [2] receives none of the above
GA007_2_S2     household member [2] receives unemployment compensation
GA007_2_S3     household member [2] receives pension subsidy
GA007_2_S4     household member [2] receives worker's compensation
GA007_2_S5     household member [2] receives elderly family planning su
GA007_2_S6     household member [2] receives medical aid
GA007_2_S7     household member [2] receives other government subsidies
GA007_2_S8     household member [2] receives social assistance
GA007_2_S9     household member [2] receives other income sources
GA007_3_S1     household member [3] receives pensions
GA007_3_S10    household member [3] receives none of the above
GA007_3_S2     household member [3] receives unemployment compensation
GA007_3_S3     household member [3] receives pension subsidy
GA007_3_S4     household member [3] receives worker's compensation
GA007_3_S5     household member [3] receives elderly family planning su
GA007_3_S6     household member [3] receives medical aid
GA007_3_S7     household member [3] receives other government subsidies
GA007_3_S8     household member [3] receives social assistance
GA007_3_S9     household member [3] receives other income sources
GA007_4_S1     household member [4] receives pensions
GA007_4_S10    household member [4] receives none of the above
GA007_4_S2     household member [4] receives unemployment compensation
GA007_4_S3     household member [4] receives pension subsidy
GA007_4_S4     household member [4] receives worker's compensation
GA007_4_S5     household member [4] receives elderly family planning su
GA007_4_S6     household member [4] receives medical aid
GA007_4_S7     household member [4] receives other government subsidies
GA007_4_S8     household member [4] receives social assistance
GA007_4_S9     household member [4] receives other income sources
GA007_5_S1     household member [5] receives pensions
GA007_5_S10    household member [5] receives none of the above
GA007_5_S2     household member [5] receives unemployment compensation
GA007_5_S3     household member [5] receives pension subsidy
GA007_5_S4     household member [5] receives worker's compensation
GA007_5_S5     household member [5] receives elderly family planning su
GA007_5_S6     household member [5] receives medical aid
GA007_5_S7     household member [5] receives other government subsidies
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GA007_5_S8     household member [5] receives social assistance
GA007_5_S9     household member [5] receives other income sources
GA007_6_S1     household member [6] receives pensions
GA007_6_S10    household member [6] receives none of the above
GA007_6_S2     household member [6] receives unemployment compensation
GA007_6_S3     household member [6] receives pension subsidy
GA007_6_S4     household member [6] receives worker's compensation
GA007_6_S5     household member [6] receives elderly family planning su
GA007_6_S6     household member [6] receives medical aid
GA007_6_S7     household member [6] receives other government subsidies
GA007_6_S8     household member [6] receives social assistance
GA007_6_S9     household member [6] receives other income sources
GA007_7_S1     household member [7] receives pensions
GA007_7_S10    household member [7] receives none of the above
GA007_7_S2     household member [7] receives unemployment compensation
GA007_7_S3     household member [7] receives pension subsidy
GA007_7_S4     household member [7] receives worker's compensation
GA007_7_S5     household member [7] receives elderly family planning su
GA007_7_S6     household member [7] receives medical aid
GA007_7_S7     household member [7] receives other government subsidies
GA007_7_S8     household member [7] receives social assistance
GA007_7_S9     household member [7] receives other income sources
GA007_8_S1     household member [8] receives pensions
GA007_8_S10    household member [8] receives none of the above
GA007_8_S2     household member [8] receives unemployment compensation
GA007_8_S3     household member [8] receives pension subsidy
GA007_8_S4     household member [8] receives worker's compensation
GA007_8_S5     household member [8] receives elderly family planning su
GA007_8_S6     household member [8] receives medical aid
GA007_8_S7     household member [8] receives other government subsidies
GA007_8_S8     household member [8] receives social assistance
GA007_8_S9     household member [8] receives other income sources
GA007_9_S1     household member [9] receives pensions
GA007_9_S10    household member [9] receives none of the above
GA007_9_S2     household member [9] receives unemployment compensation
GA007_9_S3     household member [9] receives pension subsidy
GA007_9_S4     household member [9] receives worker's compensation
GA007_9_S5     household member [9] receives elderly family planning su
GA007_9_S6     household member [9] receives medical aid
GA007_9_S7     household member [9] receives other government subsidies
GA007_9_S8     household member [9] receives social assistance
GA007_9_S9     household member [9] receives other income sources
ZA002_10_      gender of household member
ZA002_11_      gender of household member
ZA002_1_       gender of household member
ZA002_2_       gender of household member
ZA002_3_       gender of household member
ZA002_4_       gender of household member
ZA002_5_       gender of household member
ZA002_6_       gender of household member
ZA002_7_       gender of household member
ZA002_8_       gender of household member
ZA002_9_       gender of household member
ZA006_10_      relationship to you
ZA006_11_      relationship to you
ZA006_12_      relationship to you
ZA006_1_       relationship to you
ZA006_2_       relationship to you
ZA006_3_       relationship to you
ZA006_4_       relationship to you
ZA006_5_       relationship to you
ZA006_6_       relationship to you
ZA006_7_       relationship to you
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ZA006_8_        relationship to you
ZA006_9_        relationship to you
```

Other Income (child support or alimony)

Wave	Variable	Label	Type
1	R1IOTHR	r1iothr:w1 income: r other income (alimony or child support)	Cont
2	R2IOTHR	r2iothr:w2 income: r other income (alimony or child support)	Cont
1	S1IOTHR	s1iothr:w1 income: s other income (alimony or child support)	Cont
2	S2IOTHR	s2iothr:w2 income: s other income (alimony or child support)	Cont
1	H1IOTHR	h1iothr:w1 income: r+s other income(alimony or child support	Cont
2	H2IOTHR	h2iothr:w2 income: r+s other income(alimony or child support	Cont
1	HH1IOTHRO	hh1iothro:w1 income: other hhold member other income (alimon	Cont
2	HH2IOTHRO	hh2iothro:w2 income: other hhold member other income (alimon	Cont
1	HH1IOTHR	hh1iothrr:w1 income: hhold other household income	Cont
2	HH2IOTHR	hh2iothrr:w2 income: hhold other household income	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1IOTHR	17383	23.70	576.15	0.00	48000.00
R2IOTHR	16692	147.81	3024.51	0.00	200000.00
S1IOTHR	14739	20.37	563.38	0.00	48000.00
S2IOTHR	14117	155.40	3224.15	0.00	200000.00
H1IOTHR	16852	40.76	867.59	0.00	48000.00
H2IOTHR	14970	250.80	3823.80	0.00	200000.00
HH1IOTHRO	17355	13.29	367.94	0.00	24000.00
HH2IOTHRO	18234	226.15	3720.39	0.00	234000.00
HH1IOTHR	16664	53.91	967.16	0.00	48000.00
HH2IOTHR	14846	491.23	5548.49	0.00	234000.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r)
special missing responses are only provided for Wave 1. These special missing codes
are not available starting in Wave 2. As a result, all missing values are coded to
"other missing" (.m) starting in Wave 2.

How Constructed:

RwIOTHR is the respondent's other income. Other income questions are asked in the
individual income section specifically about the amount of alimony or child support.

Respondents who indicate that they have not received any other income in the past year
are not asked the value of other income question and are assigned a value of 0 for
RwIOTHR. Respondents can report other income in two ways: annually or monthly. RwIOTHR
is derived first using the reported annual amount. If the annual amount is missing,
RwIOTHR is based on the monthly amount times 12. Don't know, refused, or other missing
responses of RwIOTHR are assigned special missing codes .d, .r, .m respectively.
RwIOTHR is set to plain missing (.) for respondents who did not respond to this wave.

SwIOTHR is taken directly from the spouse's value to RwIOTHR. Special missing value .u
is used when the respondent does not report being coupled in the current wave. Special

missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwIOTHR is the total of other income at the couple level; that is, the sum of RwIOTHR and SwIOTHR. In addition to the special missing values of RwIOTHR and SwIOTHR, special missing value .b is assigned if the respondent's spouse is absent.

HHwIOTHRO is the total value of other household member's other income. This question is asked in household income module. The financial respondent reports whether each of the household member received alimony or child support.

If the financial respondent indicates that the household member has not received any other income in the past year will the value of other income is not asked and HHwIOTHRO is assigned a value of 0. Respondents can report other income in two ways: annually or monthly. We first take the reported annual amount. If the annual amount is missing, we use the monthly amount times 12 to fill the missing. Don't know, refused, or other missing responses of HHwIOTHRO are assigned special missing codes .d, .r, .m respectively. HHwIOTHRO is set to plain missing (.) for respondents who did not respond to this wave.

HHwIOTHR is the summary of the total household other income that includes individual other income and other household members' other income.

HHwIOTHR = HwIOTHR + HHwIOTHRO

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwIOTHR.

Differences with the RAND HRS

Individual other income (child support or alimony) in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The components in this measure are different from the components for other income in the RAND HRS. In RAND HRS, this measure contains alimony, other income, and lump sums from insurance. There are no questions asking lump sum payments from insurance in CHARLS.

CHARLS Variables Used:

```
Wave 1:
    GA003S9        Show Card31  Did you receive any of the following types
    GA004_1_9_     Yuan/Year
    GA004_1_9_     Yuan/Year
    GA004_2_9_     Yuan/Month
    GA008_9_A_1_   Yuan/Year of Other Income Source
    GA008_9_A_2_   Yuan/Year of Other Income Source
    GA008_9_A_3_   Yuan/Year of Other Income Source
    GA008_9_A_4_   Yuan/Year of Other Income Source
    GA008_9_B_1_   Yuan/Month of Other Income Source
    GA008_9_B_2_   Yuan/Month of Other Income Source
    GA008_9_B_3_   Yuan/Month of Other Income Source
Wave 2:
    A002_10_       gender of household member
    A002_11_       gender of household member
    A002_12_       gender of household member
    A002_1_        gender of household member
```

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A002_2_        gender of household member
A002_3_        gender of household member
A002_4_        gender of household member
A002_5_        gender of household member
A002_6_        gender of household member
A002_7_        gender of household member
A002_8_        gender of household member
A002_9_        gender of household member
A006_10_       relationship to you
A006_11_       relationship to you
A006_1_        relationship to you
A006_2_        relationship to you
A006_3_        relationship to you
A006_4_        relationship to you
A006_5_        relationship to you
A006_6_        relationship to you
A006_7_        relationship to you
A006_8_        relationship to you
A006_9_        relationship to you
GA003S1        receives pension
GA003S10       none of the above
GA003S2        receives unemployment compensation
GA003S3        receives pension subsidy
GA003S4        receives workers¡¯compensation
GA003S5        receives elderly family planning subsidies
GA003S6        receives medical aid
GA003S7        receives other government subsidies
GA003S8        receives social assistance
GA003S9        receives other income sources
GA004_1_9_     amount by year: other income sources
GA004_2_9_     amount by month: other income sources
GA007_10_S1    household member [10] receives pensions
GA007_10_S10   household member [10] receives none of the above
GA007_10_S2    household member [10] receives unemployment compensation
GA007_10_S3    household member [10] receives pension subsidy
GA007_10_S4    household member [10] receives worker's compensation
GA007_10_S5    household member [10] receives elderly family planning s
GA007_10_S6    household member [10] receives medical aid
GA007_10_S7    household member [10] receives other government subsidie
GA007_10_S8    household member [10] receives social assistance
GA007_10_S9    household member [10] receives other income sources
GA007_11_S1    household member [11] receives pensions
GA007_11_S10   household member [11] receives none of the above
GA007_11_S2    household member [11] receives unemployment compensation
GA007_11_S3    household member [11] receives pension subsidy
GA007_11_S4    household member [11] receives worker's compensation
GA007_11_S5    household member [11] receives elderly family planning s
GA007_11_S6    household member [11] receives medical aid
GA007_11_S7    household member [11] receives other government subsidie
GA007_11_S8    household member [11] receives social assistance
GA007_11_S9    household member [11] receives other income sources
GA007_12_S1    household member [12] receives pensions
GA007_12_S10   household member [12] receives none of the above
GA007_12_S2    household member [12] receives unemployment compensation
GA007_12_S3    household member [12] receives pension subsidy
GA007_12_S4    household member [12] receives worker's compensation
GA007_12_S5    household member [12] receives elderly family planning s
GA007_12_S6    household member [12] receives medical aid
GA007_12_S7    household member [12] receives other government subsidie
GA007_12_S8    household member [12] receives social assistance
GA007_12_S9    household member [12] receives other income sources
GA007_1_S1     household member [1] receives pensions
GA007_1_S10    household member [1] receives none of the above
```

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GA007_1_S2      household member [1] receives unemployment compensation
GA007_1_S3      household member [1] receives pension subsidy
GA007_1_S4      household member [1] receives worker's compensation
GA007_1_S5      household member [1] receives elderly family planning su
GA007_1_S6      household member [1] receives medical aid
GA007_1_S7      household member [1] receives other government subsidies
GA007_1_S8      household member [1] receives social assistance
GA007_1_S9      household member [1] receives other income sources
GA007_2_S1      household member [2] receives pensions
GA007_2_S10     household member [2] receives none of the above
GA007_2_S2      household member [2] receives unemployment compensation
GA007_2_S3      household member [2] receives pension subsidy
GA007_2_S4      household member [2] receives worker's compensation
GA007_2_S5      household member [2] receives elderly family planning su
GA007_2_S6      household member [2] receives medical aid
GA007_2_S7      household member [2] receives other government subsidies
GA007_2_S8      household member [2] receives social assistance
GA007_2_S9      household member [2] receives other income sources
GA007_3_S1      household member [3] receives pensions
GA007_3_S10     household member [3] receives none of the above
GA007_3_S2      household member [3] receives unemployment compensation
GA007_3_S3      household member [3] receives pension subsidy
GA007_3_S4      household member [3] receives worker's compensation
GA007_3_S5      household member [3] receives elderly family planning su
GA007_3_S6      household member [3] receives medical aid
GA007_3_S7      household member [3] receives other government subsidies
GA007_3_S8      household member [3] receives social assistance
GA007_3_S9      household member [3] receives other income sources
GA007_4_S1      household member [4] receives pensions
GA007_4_S10     household member [4] receives none of the above
GA007_4_S2      household member [4] receives unemployment compensation
GA007_4_S3      household member [4] receives pension subsidy
GA007_4_S4      household member [4] receives worker's compensation
GA007_4_S5      household member [4] receives elderly family planning su
GA007_4_S6      household member [4] receives medical aid
GA007_4_S7      household member [4] receives other government subsidies
GA007_4_S8      household member [4] receives social assistance
GA007_4_S9      household member [4] receives other income sources
GA007_5_S1      household member [5] receives pensions
GA007_5_S10     household member [5] receives none of the above
GA007_5_S2      household member [5] receives unemployment compensation
GA007_5_S3      household member [5] receives pension subsidy
GA007_5_S4      household member [5] receives worker's compensation
GA007_5_S5      household member [5] receives elderly family planning su
GA007_5_S6      household member [5] receives medical aid
GA007_5_S7      household member [5] receives other government subsidies
GA007_5_S8      household member [5] receives social assistance
GA007_5_S9      household member [5] receives other income sources
GA007_6_S1      household member [6] receives pensions
GA007_6_S10     household member [6] receives none of the above
GA007_6_S2      household member [6] receives unemployment compensation
GA007_6_S3      household member [6] receives pension subsidy
GA007_6_S4      household member [6] receives worker's compensation
GA007_6_S5      household member [6] receives elderly family planning su
GA007_6_S6      household member [6] receives medical aid
GA007_6_S7      household member [6] receives other government subsidies
GA007_6_S8      household member [6] receives social assistance
GA007_6_S9      household member [6] receives other income sources
GA007_7_S1      household member [7] receives pensions
GA007_7_S10     household member [7] receives none of the above
GA007_7_S2      household member [7] receives unemployment compensation
GA007_7_S3      household member [7] receives pension subsidy
GA007_7_S4      household member [7] receives worker's compensation
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GA007_7_S5      household member [7] receives elderly family planning su
GA007_7_S6      household member [7] receives medical aid
GA007_7_S7      household member [7] receives other government subsidies
GA007_7_S8      household member [7] receives social assistance
GA007_7_S9      household member [7] receives other income sources
GA007_8_S1      household member [8] receives pensions
GA007_8_S10     household member [8] receives none of the above
GA007_8_S2      household member [8] receives unemployment compensation
GA007_8_S3      household member [8] receives pension subsidy
GA007_8_S4      household member [8] receives worker's compensation
GA007_8_S5      household member [8] receives elderly family planning su
GA007_8_S6      household member [8] receives medical aid
GA007_8_S7      household member [8] receives other government subsidies
GA007_8_S8      household member [8] receives social assistance
GA007_8_S9      household member [8] receives other income sources
GA007_9_S1      household member [9] receives pensions
GA007_9_S10     household member [9] receives none of the above
GA007_9_S2      household member [9] receives unemployment compensation
GA007_9_S3      household member [9] receives pension subsidy
GA007_9_S4      household member [9] receives worker's compensation
GA007_9_S5      household member [9] receives elderly family planning su
GA007_9_S6      household member [9] receives medical aid
GA007_9_S7      household member [9] receives other government subsidies
GA007_9_S8      household member [9] receives social assistance
GA007_9_S9      household member [9] receives other income sources
GA008_9B
GA008_9B_1_     other income sources of household member [1]: amount by
GA008_9B_2_     other income sources of household member [2]: amount by
GA008_9B_3_     other income sources of household member [3]: amount by
GA008_9B_4_     other income sources of household member [4]: amount by
GA008_9B_5_     other income sources of household member [5]: amount by
GA008_9B_6_     other income sources of household member [6]: amount by
GA008_9B_7_     other income sources of household member [7]: amount by
GA008_9B_8_     other income sources of household member [8]: amount by
ZA002_10_       gender of household member
ZA002_11_       gender of household member
ZA002_1_        gender of household member
ZA002_2_        gender of household member
ZA002_3_        gender of household member
ZA002_4_        gender of household member
ZA002_5_        gender of household member
ZA002_6_        gender of household member
ZA002_7_        gender of household member
ZA002_8_        gender of household member
ZA002_9_        gender of household member
ZA006_10_       relationship to you
ZA006_11_       relationship to you
ZA006_12_       relationship to you
ZA006_1_        relationship to you
ZA006_2_        relationship to you
ZA006_3_        relationship to you
ZA006_4_        relationship to you
ZA006_5_        relationship to you
ZA006_6_        relationship to you
ZA006_7_        relationship to you
ZA006_8_        relationship to you
ZA006_9_        relationship to you
```

Individual Capital Income

Wave	Variable	Label	Type
1	R1ICAP	r1icap:w1 income: r capital income	Cont
2	R2ICAP	r2icap:w2 income: r capital income	Cont
1	S1ICAP	s1icap:w1 income: s capital income	Cont
2	S2ICAP	s2icap:w2 income: s capital income	Cont
1	H1ICAP	h1icap:w1 income: r+s capital income (couple level)	Cont
2	H2ICAP	h2icap:w2 income: r+s capital income (couple level)	Cont
1	HH1ICAPH	hh1icaph:w1 income: hhold other capital income	Cont
2	HH2ICAPH	hh2icaph:w2 income: hhold other capital income	Cont
1	HH1ICAP	hh1icap:w1 income: hhold total capital income	Cont
2	HH2ICAP	hh2icap:w2 income: hhold total capital income	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1ICAP	17335	-222.94	16914.64	-2000000.00	450000.00
R2ICAP	16687	167.97	4639.08	0.00	450000.00
S1ICAP	14698	-228.36	18167.49	-2000000.00	450000.00
S2ICAP	14120	184.75	4950.79	0.00	450000.00
H1ICAP	16780	-401.89	24220.96	-2000000.00	450000.00
H2ICAP	14973	329.51	6911.57	0.00	450000.00
HH1ICAPH	17330	321.93	3468.66	0.00	300000.00
HH2ICAPH	17528	789.36	6818.67	0.00	372000.00
HH1ICAP	16679	-118.13	24463.29	-2000000.00	450000.00
HH2ICAP	14800	1053.54	9390.11	0.00	450000.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

RwICAP is the respondent's capital income. These capital income questions are asked in the individual income section.

In Wave 1, respondents can report capital income in any of the following ways:

1.Income earned from stock. Respondents who own any stocks are asked about how much they have earned or lost in the past year. The net value of stock income is derived by taking the amount earned minus the amount lost.

2.Income earned from mutual funds. Respondents who own any mutual funds are asked about how much they have earned or lost in the past year. Net value of mutual funds income is derived by taking the amount earned minus the amount lost.

      3.Income from other investments. Respondents who own other investments are asked about how much they received income from   other investments.

Starting in Wave 2, respondents are only asked to report capital income in the individual income section once with the following question:

      1.How much did you receive altogether from other investments in the past year?

Respondents who indicate that they have not received any capital income in the past year are not asked the value of capital income question and are assigned a value of 0 for RwICAP. Don't know, refused, or other missing responses of RwICAP are assigned special missing codes .d, .r, .m respectively. RwICAP is set to plain missing (.) for respondents who did not respond to this wave.

SwICAP is taken directly from the spouse's value to RwICAP. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

HwICAP is the total capital income at the couple level; that is the sum of RwICAP and SwICAP. In addition to the special missing values of RwICAP and SwICAP, special missing value .b is assigned if the respondent's spouse is absent.

HHwICAPH is the total household capital income at the household level. This variable is reported by a financial respondents at the household income section.

The financial respondent reports total household income in the following ways:

      1.Annual rental income for all rooms or houses that are currently leased. The rental income is reported monthly. Annual rental income is calculated by taking the monthly amount times 12.

      2.Annual rental income for all leased rooms or houses that are received by the other household members

      3.Rental income from cultivated land, forest land, pasture and pond

      4.Rental income from other household assets other than housing or land, such as fixed capital, durables or livestock

      5.Interest that are received from the money that was lent to others

If the financial respondent indicates that the household has not received any capital income in the past year, the value of capital income is not asked and HHwICAPH is assigned a value of 0. Don't know, refused, or other missing responses of HHwICAPH are assigned special missing codes .d, .r, .m respectively. HHwICAPH is set to plain missing (.) for respondents who did not respond to this wave.

HHwICAP is the summary of the total household capital income that includes individual capital income and household capital income

HHwICAP = HwICAP + HHwICAPH

Cross Wave Differences in CHARLS

Income earned from stock and mutual fund are not asked separately after Wave 1 in the CHARLS questionnaire. Instead CHARLS asks how much did the respondent receive altogether.

In the current release of the CHARLS data there is a high number of individuals with completely missing information in the Wave 2 Individual Income file. These missings affect RwICAP.

In the current release of the CHARLS data there is a high number of households with completely missing information for the Household Assets section in the Wave 2 Household Income file. These missings affect HHwICAPH.

Differences with the RAND HRS

Individual capital income in CHARLS are measured in China's currency Yuan whereas the equivalent measure in RAND HRS is current U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

The components in this measure are different from the corollary measure in the RAND HRS. In the RAND HRS, capital income contains income from business, rental, stock and mutual funds, bonds, CDs and treasury bills, checking and saving accounts, dividend and interest, and trust fund or royalties. There are no questions asking about trust fund or royalties in CHARLS.

CHARLS Variables Used:

```
Wave 1:
    HA052            THE MONTHLY RENTAL INCOME FOR ALL ROOM OR HOUSES OWNED
    HA052_1      rent
    HA053        rent
    HA053_1      rent
    HA054S1      CULTIVATED LAND
    HA054S2      CULTIVATED LAND
    HA054S3      CULTIVATED LAND
    HA054S4      CULTIVATED LAND
    HA060_1_     RENTAL INCOME
    HA060_2_     RENTAL INCOME
    HA060_3_     RENTAL INCOME
    HA060_4_     RENTAL INCOME
    HA064        RENT
    HA064_1      RENT
    HA071        HOW MUCH INTEREST INCOME IN PAST YEAR
    HC010        HAVE YOU HELD ANY STOCKS IN THE PAST YEAR
    HC011        DID YOU EARN MONEY OR LOSE MONEY FROM STOCK
    HC012        HOW MUCH DID YOU EARN OR LOSE
    HC012_2      HOW MUCH DID YOU EARN OR LOSE
    HC015        HAVE YOU HELD ANY FUNDS IN THE PAST YEAR
    HC016        DID YOU EARN MONEY OR LOSE MONEY FROM HOLDING FUNDS
    HC017        HOW MUCH DID YOU EARN OR LOSE
    HC023        DID YOU RECEIVE ANY OTHER INCOME IN PAST YEAR
    HC024        HOW MUCH DID YOU RECEIVE ALTOGETHER
Wave 2:
    HA027        other residential properties
    HA052        rental income (respondent or spouse)
    HA052_1      rent (yuan/month)
    HA053        rental income (other household member)
    HA053_1      rent (yuan/month)
    HA054S1      categories of land
    HA054S2      categories of land
    HA054S3      categories of land
    HA054S4      categories of land
    HA058_1_     rent out land
    HA060_1_     income on renting out
    HA060_2_     income on renting out
    HA060_3_     income on renting out
    HA060_4_     income on renting out
    HA064        income for renting out other assets
    HA064_1      income for renting out other assets
    HA069        lent out unpaid
    HA071        interest income
```

```
HC023          other investments income
HC024          amount of investment income
```

<div style="border:1px solid black;">

Total Household Income

</div>

```
Wave Variable     Label                                                 Type

  1  HH1ITOT      hh1itot:w1 income: hhold total household income       Cont
  2  HH2ITOT      hh2itot:w2 income: hhold total household income       Cont
```

Descriptive Statistics

```
Variable        N        Mean       Std Dev     Minimum      Maximum

HH1ITOT       14701     30555.64    64063.38   -1748000.00   2620400.00
HH2ITOT       12985     35586.33    76570.12    -682400.00   3896812.00
```

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

HHwITOT is the sum of all income at the household level including income from earning income, pension income, income from government transfer, other income, and capital income.

HHwITOT = HHwIEARN + HHwIPEN + HHwIGXFR + HHwIOTHR + HHwICAP

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify cross wave differences.

Differences with the RAND HRS

These values in CHARLS is measured in China's currency Yuan whereas the equivalent measure in RAND HRS in current dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                        Household food consumption                             │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                    Type

  1  HH1CFOOD       hh1cfood:w1 hhold food consumption, past 7 days          Cont
  2  HH2CFOOD       hh2cfood:w2 hhold food consumption, past 7 days          Cont
```

Descriptive Statistics

```
Variable          N        Mean        Std Dev     Minimum      Maximum

HH1CFOOD        16478      233.00       1612.04        0.00     144000.00
HH2CFOOD        14314      347.44        600.66        0.00      21000.00
```

General Comments:

```
Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r)
special missing responses are only provided for Wave 1. These special missing codes
are not available starting in Wave 2. As a result, all missing values are coded to
"other missing" (.m) starting in Wave 2.
```

How Constructed:

```
HHwCFOOD is the total household food expenditures in last week.

This measure is comprised of three types of food expenditures:

        1.Purchased food and food eaten from own production

        2.Meals eaten out

        3.Alcohol and cigarettes/tobacco

Financial respondent reports all household living expenditure, including the
expenditure from all other household members. If someone attends school or work
outside and comes home almost every week, their expenditures are included. However, if
someone attends school or work outside but not come home every week, their
expenditures are excluded.

Don't know, refused, or other missing responses of HHwCFOOD are assigned special
missing codes .d, .r, .m respectively. HHwCFOOD is set to plain missing (.) for
respondents who did not respond to this wave.
```

Cross Wave Differences in CHARLS

```
In Wave 1 CHARLS asked the total amount of purchased food and food eaten from own
production in the same question. Starting in Wave 2 CHARLS asks the amount of
purchased food and food eaten from own production in two separate questions.

In the current release of the CHARLS data there is a high number of households with
incomplete information for the Household Living Expenditure section in the Wave 2
Household Income file. These missings affect HHwCFOOD.
```

Differences with the RAND HRS

```
This measure is not available in RAND HRS.
```

CHARLS Variables Used:

```
Wave 1:
    GE006          EXPENDITURE ON FOOD
    GE007          EXPENDITURE ON FOOD
    GE008          EXPENDITURE ON FOOD
Wave 2:
    GE006          expenditure on food
    GE006_W2       produce agricultural products by yourself
    GE006_W2_1     value of self-consumed products
    GE007          expenditure on eating out
    GE008          expenditure on alcohol, tobacco
```

Household non-food consumption in last month

Wave	Variable	Label	Type
1	HH1CNF1M	hh1cnf1m:w1 hhold non-food consumption, last month	Cont
2	HH2CNF1M	hh2cnf1m:w2 hhold non-food consumption, last month	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CNF1M	16193	294.44	374.06	0.00	7350.00
HH2CNF1M	15142	417.48	788.99	0.00	43300.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

HHwCNF1M is the total household non-food expenditures in last month.

This measure is comprised of seven types of expenditures:

1.   Communication fee including post, Internet usage, telephone and cell phone usage

2.   Utilities including water and electricity

3.   Fuels including gas, coal

4.   Fee for housekeeper, matron and servants

5.   Local transportation

6.   Household items and personal daily toiletries plus beauty treatments

7.   Entertainment including fee to buy books, newspaper, etc.

Don't know, refused, or other missing responses of HHwCNF1M are assigned special missing codes .d, .r, .m respectively. HHwCNF1M is set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

In the current release of the CHARLS data there is a high number of households with incomplete information for the Household Living Expenditure section in the Wave 2 Household Income file. These missings affect HHwCNF1M.

Differences with the RAND HRS

This measure is not available in RAND HRS.

CHARLS Variables Used:

Wave 1:

```
    GE009_1          COMMUNICATION FEES
    GE009_2          UTILITIES
    GE009_3          FUELS
    GE009_4          FEES FOR MATRON
    GE009_5          LOCAL TRANSPORTATION
    GE009_6          HOUSEHOLD ITEMS AND PERSONAL TOILETRIES
    GE009_7          ENTERTAINMENT
Wave 2:
    GE009_1          expenditure on communication
    GE009_2          expenditure on utilities
    GE009_3          expenditure on fuels
    GE009_4          expenditure on servants
    GE009_5          expenditure on transportation
    GE009_6          expendtiure on daily items
    GE009_7          expenditure on entertainment
```

Household non-food consumption in last year

Wave	Variable	Label	Type
1	HH1CNF1Y	hh1cnf1y:w1 hhold other non-food consumption, past year	Cont
2	HH2CNF1Y	hh2cnf1y:w2 hhold other non-food consumption, past year	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CNF1Y	15700	9435.89	26352.69	0.00	1165000.00
HH2CNF1Y	14964	12330.89	27329.40	0.00	517000.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r) special missing responses are only provided for Wave 1. These special missing codes are not available starting in Wave 2. As a result, all missing values are coded to "other missing" (.m) starting in Wave 2.

How Constructed:

HHwCNF1Y is the total household non-food expenditures in last year.

In Wave 1 respondents are asked about fourteen types of expenditures:

1. Clothing and bedding

2. Long distance traveling expenses

3. Heating (centrally heated)

4. Furniture and consumption of durable goods

5. Education and training

6. Medical expenditure

7. Fitness expenditures

8. Beauty expenditure including make-up, facial and massages

9. Purchase, maintenance and repair of transportation vehicle and communication products, etc.

10. Taxes and fee turned over to the government

11. Automobiles

12. Electronics (laptops, computers, etc.)

13. Property management fees

14. Donations to the society including cash, and items like food, clothing, etc.

Starting in Wave 2, respondents are asked about thirteen types of expenditures:

1. Clothing and bedding

2.Long distance traveling expenses

3.Heating (centrally heated)

4.Furniture, consumption of durable goods and electronics

5.Education and training

6.Medical expenditure

7.Fitness expenditures

8.Beauty expenditure including make-up, facial and massages

9.Automobiles

10.Purchase, maintenance and repair of transportation vehicle and communication products, etc.

11.Property management fees

12.Taxes and fee turned over to the government

13.   Donations to the society including cash, and items like food, clothing, etc.

Don't know, refused, or other missing responses of HHwCNF1Y are assigned special missing codes .d, .r, .m respectively. HHwCNF1Y is set to plain missing (.) for respondents who did not respond to this wave.

Cross Wave Differences in CHARLS

Wave 1 includes a separate question about electronics but starting in Wave 2, electronics are included with furniture and consumption of durable goods.

In the current release of the CHARLS data there is a high number of households with incomplete information for the Household Living Expenditure section in the Wave 2 Household Income file. These missings affect HHwCNF1Y.

Differences with the RAND HRS

This measure is not available in RAND HRS.

CHARLS Variables Used:

```
Wave 1:
    GE010_1        CLOTHING AND BEDDING
    GE010_10       Medical expenditure
    GE010_11       Automobiles
    GE010_12
    GE010_13       Property management fees (including parking fee)
    GE010_14       Property management fees (including parking fee)
    GE010_2        LONG DISTANCE TRAVELING EXPENSES
    GE010_3        HEATING
    GE010_4        Furniture
    GE010_5        FITNESS EXPENDITURES
    GE010_6        Beauty (including make-ups, facials, massages, etc.)
    GE010_7        MAINTENANCE AND REPAIR
    GE010_8        TAXES AND FEES TURNED OVER TO THE GOVERNMENT
    GE010_9        Education and training(including tuition, training fees,
Wave 2:
    GE010_1        expenditure on clothing and bedding
```

```
GE010_10        expenditure on purchase, maintenance and repair
GE010_11        property management fees
GE010_12        taxes and fees
GE010_13        donations to the society
GE010_2         expenditure on travel
GE010_3         expenditure on centeral heating
GE010_4         expenditure on durable goods
GE010_5         expenditure on education and training
GE010_6         medical expenditure
GE010_7         expenditure on fitness
GE010_8         expenditure on beauty
GE010_9         expenditure on automobiles
```

Total household consumption

Wave	Variable	Label	Type
1	HH1CTOT	hh1ctot:w1 total household consumption	Cont
2	HH2CTOT	hh2ctot:w2 total household consumption	Cont
1	HH1CPERC	hh1cperc:w1 total household per capita consumption	Cont
2	HH2CPERC	hh2cperc:w2 total household per capita consumption	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
HH1CTOT	14731	25067.43	93810.87	0.00	7499988.00
HH2CTOT	12116	35813.08	49010.09	0.00	1097540.00
HH1CPERC	14731	13869.54	47621.48	0.00	3749994.00
HH2CPERC	12116	19672.27	27199.75	0.00	556900.00

General Comments:

Based on the current release of CHARLS data, "don't know" (.d) and "refused" (.r)
special missing responses are only provided for Wave 1. These special missing codes
are not available starting in Wave 2. As a result, all missing values are coded to
"other missing" (.m) starting in Wave 2.

How Constructed:

HHwCTOT is the amount of total household consumption as aggregated from all
consumption activities: food consumption in last week, non-food in the past 30 days,
and other non-food consumption in the past year. This variable is calculated as annual
expenditures.

The total household consumption HHwCTOT = sum of (HHwCFOOD *52, HHwCNF30 *12,
HHwCNF12)

HHwCPERC is the per capita household consumption. This variable is calculated by
taking total household consumption divided by the number of people in the household;
that is,

HHwCPERC = HHwCTOT / HwHHRES.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

These measures are not available in RAND HRS.

Section G: Family Structure

Number of People Living in Household

```
Wave Variable      Label                                                    Type

  1  H1HHRES        h1hhres:w1 number of people living in this household     Cont
  2  H2HHRES        h2hhres:w2 number of people living in this household     Cont
```

Descriptive Statistics

```
Variable          N        Mean      Std Dev     Minimum     Maximum

H1HHRES         17705      3.59       1.80        1.00        16.00
H2HHRES         18605      2.89       1.54        1.00        14.00
```

How Constructed:

```
HwHHRES counts the number of people living in a household, including the respondents.

Number of residents living in a household is obtained by using the household roster
file which includes all members reported to live in the household, as identified by
the household respondent.
```

Cross Wave Differences in CHARLS

```
No difference known.
```

Differences with the RAND HRS

```
No difference known.
```

CHARLS Variables Used:

```
Wave 1:
    A002_10_      Gender of This Household Member
    A002_11_      Gender of This Household Member
    A002_12_      Gender of This Household Member
    A002_13_      Gender of This Household Member
    A002_14_      Gender of This Household Member
    A002_15_      Gender of This Household Member
    A002_16_      Gender of This Household Member
    A002_1_       Gender of This Household Member
    A002_2_       Gender of This Household Member
    A002_3_       Gender of This Household Member
    A002_4_       Gender of This Household Member
    A002_4_       Gender of This Household Member
    A002_5_       Gender of This Household Member
    A002_6_       Gender of This Household Member
    A002_7_       Gender of This Household Member
    A002_8_       Gender of This Household Member
    A002_9_       Gender of This Household Member
    A006_10_      Relationship to FamilyR
    A006_11_      Relationship to FamilyR
    A006_12_      Relationship to FamilyR
    A006_13_      Relationship to FamilyR
    A006_14_      Relationship to FamilyR
    A006_15_      Relationship to FamilyR
    A006_16_      Relationship to FamilyR
    A006_1_       Relationship to FamilyR
    A006_2_       Relationship to FamilyR
    A006_3_       Relationship to FamilyR
```

```
A006_4_        Relationship to FamilyR
A006_5_        Relationship to FamilyR
A006_6_        Relationship to FamilyR
A006_7_        Relationship to FamilyR
A006_8_        Relationship to FamilyR
A006_9_        Relationship to FamilyR
A016_10_       Whether One or More Months Away
A016_11_       Whether One or More Months Away
A016_12_       Whether One or More Months Away
A016_13_       Whether One or More Months Away
A016_14_       Whether One or More Months Away
A016_15_       Whether One or More Months Away
A016_16_       Whether One or More Months Away
A016_1_        Whether One or More Months Away
A016_2_        Whether One or More Months Away
A016_3_        Whether One or More Months Away
A016_5_        Whether One or More Months Away
A016_6_        Whether One or More Months Away
A016_7_        Whether One or More Months Away
A016_8_        Whether One or More Months Away
A016_9_        Whether One or More Months Away
A017_10_       How Many Months
A017_11_       How Many Months
A017_12_       How Many Months
A017_13_       How Many Months
A017_14_       How Many Months
A017_15_       How Many Months
A017_1_        How Many Months
A017_2_        How Many Months
A017_3_        How Many Months
A017_4_        How Many Months
A017_5_        How Many Months
A017_6_        How Many Months
A017_7_        How Many Months
A017_8_        How Many Months
A017_9_        How Many Months
```

Number of Living Children

Wave	Variable	Label	Type
1	H1SON	h1son:w1 number of living sons	Cont
2	H2SON	h2son:w2 number of living sons	Cont
1	H1DAU	h1dau:w1 number of living daughters	Cont
2	H2DAU	h2dau:w2 number of living daughters	Cont
1	H1CHILD	h1child:w1 number of living children	Cont
2	H2CHILD	h2child:w2 number of living children	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1SON	17705	1.40	1.02	0.00	8.00
H2SON	18605	1.44	1.05	0.00	8.00
H1DAU	17705	1.23	1.11	0.00	8.00
H2DAU	18605	1.29	1.12	0.00	9.00
H1CHILD	17705	2.64	1.44	0.00	10.00
H2CHILD	18605	2.73	1.47	0.00	10.00

How Constructed:

HwSON is the number of living sons of the respondent and/or spouse at the household level, including co-resident or non-coresident sons.

HwDAU is the number of living daughters of the respondent and/or spouse at the household level, including co-resident or non-coresident daughters.

HwCHILD is the sum of HwSON and HwDAU that indicates the number of living children of the respondent and/or spouse, including co-resident or non-coresident daughters.

HwSON, HwDAU and HwCHILD are set to plain missing (.) for respondents who did not respond to this wave.

In wave 1, the number of co-resident children is obtained by counting anyone in the Household Roster file who is a child, using the relationship and gender variable. Starting wave 2, the number of co-resident children is obtained from family information file.

A child can be biological children, adopted children, foster children, and step-children.

Cross Wave Differences in CHARLS

In wave 1, the number of co-resident children is obtained by counting the household member children from household roster file. Starting wave 2, CHARLS does not provide the household roster data file, instead the number of co-resident children is obtained from the family information file.

Differences with the RAND HRS

The RAND HRS does not include the number of living sons and the number of living daughters.

CHARLS Variables Used:

```
A002_10_      Gender of This Household Member
A002_11_      Gender of This Household Member
A002_12_      Gender of This Household Member
A002_13_      Gender of This Household Member
A002_14_      Gender of This Household Member
A002_15_      Gender of This Household Member
A002_16_      Gender of This Household Member
A002_1_       Gender of This Household Member
A002_2_       Gender of This Household Member
A002_3_       Gender of This Household Member
A002_4_       Gender of This Household Member
A002_5_       Gender of This Household Member
A002_6_       Gender of This Household Member
A002_7_       Gender of This Household Member
A002_8_       Gender of This Household Member
A002_9_       Gender of This Household Member
A006_10_      Relationship to FamilyR
A006_11_      Relationship to FamilyR
A006_12_      Relationship to FamilyR
A006_13_      Relationship to FamilyR
A006_14_      Relationship to FamilyR
A006_15_      Relationship to FamilyR
A006_16_      Relationship to FamilyR
A006_1_       Relationship to FamilyR
A006_2_       Relationship to FamilyR
A006_3_       Relationship to FamilyR
A006_4_       Relationship to FamilyR
A006_5_       Relationship to FamilyR
A006_6_       Relationship to FamilyR
A006_7_       Relationship to FamilyR
A006_8_       Relationship to FamilyR
A006_9_       Relationship to FamilyR
CB049_10_     GENDER
CB049_11_     GENDER
CB049_1_      GENDER
CB049_2_      GENDER
CB049_3_      GENDER
CB049_4_      GENDER
CB049_5_      GENDER
CB049_6_      GENDER
CB049_7_      GENDER
CB049_8_      GENDER
CB049_9_      GENDER
```

Number of Deceased Children

Wave	Variable	Label	Type
1	H1DSON	h1dson:w1 number of deceased sons	Cont
2	H2DSON	h2dson:w2 number of deceased sons	Cont
1	H1DDAU	h1ddau:w1 number of deceased daughters	Cont
2	H2DDAU	h2ddau:w2 number of deceased daughters	Cont
1	H1DCHILD	h1dchild:w1 total number of deceased children	Cont
2	H2DCHILD	h2dchild:w2 total number of deceased children	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1DSON	17705	0.07	0.31	0.00	5.00
H2DSON	18605	0.06	0.27	0.00	5.00
H1DDAU	17705	0.05	0.25	0.00	4.00
H2DDAU	18605	0.04	0.22	0.00	3.00
H1DCHILD	17705	0.12	0.43	0.00	6.00
H2DCHILD	18605	0.10	0.37	0.00	6.00

How Constructed:

HwDSON is the number of deceased sons of the respondent and/or spouse at the household level.

HwDDAU is the number of deceased daughters of the respondent and/or spouse at the household level.

HwDCHILD is the sum of HwDSON and HwDDAU which indicates the number of deceased children.

HwDSON, HwDDAU and HwDCHILD are set to plain missing (.) for respondents who did not respond to this wave.

These variables are obtained by counting all the deceased children that respondent reports in the Family information file. The gender variable is used for counting the sons and daughters. A child can be biological children, adopted children, foster children, and step-children.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

These variables are not included in RAND HRS.

CHARLS Variables Used:

```
CB006_1_      gender of this child
CB006_2_      gender of this child
CB006_3_      gender of this child
CB006_4_      gender of this child
CB006_5_      gender of this child
```

```
CB006_6_        gender of this child
CB014_1_        gender of this child
CB014_2_        gender of this child
CB022_1_        gender of this child
CB022_2_        gender of this child
CB022_3_        gender of this child
CB022_4_        gender of this child
CB022_5_        gender of this child
CB030_1_        gender of this child
CB030_2_        gender of this child
CB030_3_        gender of this child
CB038_1_        gender of this child
CB038_2_        gender of this child
CB038_3_        gender of this child
CB038_4_        gender of this child
CB038_5_        gender of this child
CB046_1_        gender of this child
CB046_2_        gender of this child
```

Number of Living Sibling

Wave	Variable	Label	Type
1	R1LIVBRO	r1livbro:w1 r number of living brothers	Cont
2	R2LIVBRO	r2livbro:w2 r number of living brothers	Cont
1	S1LIVBRO	s1livbro:w1 s number of living brothers	Cont
2	S2LIVBRO	s2livbro:w2 s number of living brothers	Cont
1	R1LIVSIS	r1livsis:w1 r number of living sisters	Cont
2	R2LIVSIS	r2livsis:w2 r number of living sisters	Cont
1	S1LIVSIS	s1livsis:w1 s number of living sisters	Cont
2	S2LIVSIS	s2livsis:w2 s number of living sisters	Cont
1	R1LIVSIB	r1livsib:w1 r number of living siblings	Cont
2	R2LIVSIB	r2livsib:w2 r number of living siblings	Cont
1	S1LIVSIB	s1livsib:w1 s number of living siblings	Cont
2	S2LIVSIB	s2livsib:w2 s number of living siblings	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LIVBRO	17501	1.59	1.29	0.00	8.00
R2LIVBRO	18362	1.60	1.29	0.00	9.00
S1LIVBRO	17001	1.61	1.30	0.00	7.00
S2LIVBRO	15888	1.67	1.28	0.00	9.00
R1LIVSIS	17501	1.55	1.33	0.00	8.00
R2LIVSIS	18357	1.57	1.32	0.00	9.00
S1LIVSIS	17001	1.52	1.32	0.00	9.00
S2LIVSIS	15883	1.63	1.33	0.00	8.00
R1LIVSIB	17501	3.14	1.92	0.00	11.00
R2LIVSIB	18328	3.16	1.88	0.00	9.00
S1LIVSIB	17001	3.13	1.93	0.00	11.00
S2LIVSIB	15855	3.29	1.85	0.00	9.00

How Constructed:

RwLIVBRO is the number of the respondent's living brothers. CHARLS asks respondent separately about their older and younger brothers. RwLIVBRO is the sum of living older or younger brothers that respondent reports. RwLIVSIS is the number of the respondent's living sisters. CHARLS asks respondent separately about their older and younger sisters. RwLIVSIS is the sum of living older or younger sisters that respondent reports.

RwLIVSIB is the number of respondent's living siblings that is the sum of RwLIVBRO and RwLIVSIS.

When respondent don't know, refused, or their answer is missing for other reason, RwLIVBRO, RwLIVSIS or RwLIVSIB are assigned special missing codes .d, .r, .m, respectively. If the family information questions were skipped because the interview was done by proxy, RwLIVBRO, RwLIVSIS or RwLIVSIB are set to special missing (.p).

RwLIVBRO, RwLIVSIS and RwLIVSIB are set to plain missing (.) for respondents who did
not respond to this wave.

SwLIVBRO, SwLIVSIS and SwLIVSIB are spouse's sibling that respondent reported. Special
missing value .u is used when the respondent does not report being coupled in the
current wave. Special missing value .v is used when the respondent reports being
coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No difference known.

Differences with the RAND HRS

Unlike HRS, the number of spouse's siblings are reported by respondents in CHARLS.

CHARLS Variables Used:

```
    CC001           HOW MANY OF YOUR SIBLINGS ARE STILL ALIVE
    CC002_1         OLDER BROTHERS:
    CC002_2         YOUNGER BROTHERS
    CC002_3         OLDER SISTERS:
    CC002_4         YOUNGER SISTERS
    CC006           THE NUMBER OF SIBLINGS OF YOUR SPOUSE WHO IS ALIVE
    CC007_1         OLDER BROTHERS:
    CC007_2         YOUNGER BROTHERS
    CC007_3         OLDER SISTERS:
    CC007_4         YOUNGER SISTERS
    PROXY           interview done by proxy
```

Number of Deceased Sibling

Wave	Variable	Label	Type
1	R1DECBRO	r1decbro:w1 r number of deceased brothers	Cont
2	R2DECBRO	r2decbro:w2 r number of deceased brothers	Cont
1	S1DECBRO	s1decbro:w1 s number of deceased brothers	Cont
2	S2DECBRO	s2decbro:w2 s number of deceased brothers	Cont
1	R1DECSIS	r1decsis:w1 r number of deceased sisters	Cont
2	R2DECSIS	r2decsis:w2 r number of deceased sisters	Cont
1	S1DECSIS	s1decsis:w1 s number of deceased sisters	Cont
2	S2DECSIS	s2decsis:w2 s number of deceased sisters	Cont
1	R1DECSIB	r1decsib:w1 r number of deceased siblings	Cont
2	R2DECSIB	r2decsib:w2 r number of deceased siblings	Cont
1	S1DECSIB	s1decsib:w1 s number of deceased siblings	Cont
2	S2DECSIB	s2decsib:w2 s number of deceased siblings	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1DECBRO	17420	0.39	0.77	0.00	12.00
R2DECBRO	18212	0.43	0.81	0.00	12.00
S1DECBRO	16899	0.36	0.73	0.00	14.00
S2DECBRO	15715	0.38	0.72	0.00	8.00
R1DECSIS	17420	0.29	0.66	0.00	8.00
R2DECSIS	18212	0.32	0.69	0.00	8.00
S1DECSIS	16897	0.26	0.63	0.00	12.00
S2DECSIS	15714	0.25	0.59	0.00	9.00
R1DECSIB	17420	0.68	1.14	0.00	14.00
R2DECSIB	18212	0.75	1.20	0.00	14.00
S1DECSIB	16897	0.62	1.06	0.00	14.00
S2DECSIB	15714	0.64	1.02	0.00	12.00

How Constructed:

RwDECBRO is the number of the respondent's deceased brothers that is the sum of deceased older or younger brothers that respondent reports. RwDECSIS is the number of the respondent's deceased sisters that is the sum of deceased older or younger sisters that respondent reports.

RwDECSIB is the number of respondent's living siblings that is the sum of RwDECBRO and RwDECSIS.

When respondent don't know, refused, or their answer is missing for other reason, RwDECBRO, RwDECSIS or RwDECSIB are assigned special missing codes .d, .r, .m, respectively. If the family information questions were skipped because the interview was done by proxy, RwDECBRO, RwDECSIS or RwDECSIB are set to special missing (.p).

RwDECBRO, RwDECSIS and RwDECSIB are set to plain missing (.) for respondents who did not respond to this wave.

SwDECBRO, SwDECSIS and SwDECSIB are spouse's sibling that respondent reported. Special missing value .u is used when the respondent does not report being coupled in the current wave. Special missing value .v is used when the respondent reports being coupled in the current wave but their spouse is not interviewed.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

Unlike HRS, the number of spouse's siblings are reported by respondents in CHARLS.

CHARLS Variables Used:

```
CC003        THE NUMBER OF SIBLINGS DIED
CC004_1      OLDER BROTHERS:
CC004_2      YOUNGER BROTHERS
CC004_3      OLDER SISTERS:
CC004_4      YOUNGER SISTERS
CC008        THE NUMBER OF SIBLINGS OF YOUR SPOUSE DIED
CC009_1      OLDER BROTHERS:
CC009_2      YOUNGER BROTHERS
CC009_3      OLDER SISTERS:
CC009_4      YOUNGER SISTERS
PROXY        interview done by proxy
```

Parental Mortality

Wave	Variable	Label	Type
1	R1MOMLIV	r1momliv:w1 r mother alive	Categ
2	R2MOMLIV	r2momliv:w2 r mother alive	Categ
1	S1MOMLIV	s1momliv:w1 s mother alive	Categ
2	S2MOMLIV	s2momliv:w2 s mother alive	Categ
1	R1DADLIV	r1dadliv:w1 r father alive	Categ
2	R2DADLIV	r2dadliv:w2 r father alive	Categ
1	S1DADLIV	s1dadliv:w1 s father alive	Categ
2	S2DADLIV	s2dadliv:w2 s father alive	Categ
1	R1LIVPAR	r1livpar:w1 r number of living parents	Cont
2	R2LIVPAR	r2livpar:w2 r number of living parents	Cont
1	S1LIVPAR	s1livpar:w1 r number of living parents	Cont
2	S2LIVPAR	s2livpar:w2 s number of living parents	Cont
1	R1MOMAGE	r1momage:w1 r mother's age current/at death	Cont
2	R2MOMAGE	r2momage:w2 r mother's age current/at death	Cont
1	S1MOMAGE	s1momage:w1 s mother's age current/at death	Cont
2	S2MOMAGE	s2momage:w2 s mother's age current/at death	Cont
1	R1DADAGE	r1dadage:w1 r mother's age current/at death	Cont
2	R2DADAGE	r2dadage:w2 r father's age current/at death	Cont
1	S1DADAGE	s1dadage:w1 s mother's age current/at death	Cont
2	S2DADAGE	s2dadage:w2 s father's age current/at death	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1MOMLIV	17551	0.27	0.45	0.00	1.00
R2MOMLIV	18538	0.27	0.44	0.00	1.00
S1MOMLIV	15437	0.30	0.46	0.00	1.00
S2MOMLIV	16515	0.29	0.45	0.00	1.00
R1DADLIV	17514	0.15	0.36	0.00	1.00
R2DADLIV	18553	0.15	0.35	0.00	1.00
S1DADLIV	15442	0.17	0.38	0.00	1.00
S2DADLIV	16556	0.16	0.37	0.00	1.00
R1LIVPAR	17462	0.43	0.66	0.00	2.00
R2LIVPAR	18535	0.41	0.66	0.00	2.00
S1LIVPAR	15401	0.47	0.68	0.00	2.00
S2LIVPAR	16512	0.45	0.68	0.00	2.00
R1MOMAGE	15460	72.04	14.90	1.00	116.00
R2MOMAGE	15146	72.81	14.84	1.00	117.00
S1MOMAGE	12759	73.14	14.27	1.00	111.00
S2MOMAGE	12438	73.79	14.04	-1.00	113.00

R1DADAGE	15300	69.46	14.96	3.00	111.00
R2DADAGE	14944	70.02	15.02	1.00	116.00
S1DADAGE	12428	70.83	14.84	1.00	111.00
S2DADAGE	12076	71.25	14.67	1.00	113.00

Categorical Variable Codes

Value----------------------------------		R1MOMLIV	R2MOMLIV
.m:missing		154	2594
0.no		12735	13624
1.yes		4816	4914

Value----------------------------------		S1MOMLIV	S2MOMLIV
.m:missing		2268	4617
0.no		10812	11732
1.yes		4625	4783

Value----------------------------------		R1DADLIV	R2DADLIV
.m:missing		191	2579
0.no		14813	15814
1.yes		2701	2739

Value----------------------------------		S1DADLIV	S2DADLIV
.m:missing		2263	4576
0.no		12820	13859
1.yes		2622	2697

How Constructed:

RwMOMLIV and RwDADLIV are whether a respondent's mother and father, respectively, are still alive. SwMOMLIV and SwDADLIV are 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. RwMOMLIV, RwDADLIV and RwLIVPAR are set to plain missing (.) for respondents who did not respond to this wave.

RwMOMAGE and RwDADAGE are assigned respectively to R's mother's and R's father's current age if living or age at death if deceased. Don't know, refused, or other missings values RwMOMAGE and RwDADAGE is assigned special missing codes .d, .r, .m, respectively. Special missing code(.i) is assigned to RwMOMAGE and RwDADAGE if the year of the parent born is earlier than 1850 or later than 1950 or dead earlier than 1900 or later than interview year. RwMOMAGE and RwDADAGE are set to plain missing (.) for respondents who did not respond to this wave.

SwMOMAGE and SwDADAGE are assigned respectively to R's mother-in-law's and R's father-in-law's current age or age at death. Don't know, refused, or other missings values SwMOMAGE and SwDADAGE is assigned special missing codes .d, .r, .m, respectively. Special missing code(.i) is assigned to SwMOMAGE and SwDADAGE if the year of the parent born is earlier than 1850 or later than 1950 or dead earlier than 1900 or later than interview year.

Cross Wave Differences in CHARLS

Starting wave 2, respondent was asked to verify whether the the parental mortality they reported in previous wave is correct or not. If the information is incorrect, the

respondent disputes and reports the correct information. Currently in the Harmonized
CHARLS previous reports of parental mortality which were later disputed are not
adjusted.

Differences with the RAND HRS

No differences known.

CHARLS Variables Used:

```
CA001_1_        STILL LIVING
CA001_2_        STILL LIVING
CA001_3_        STILL LIVING
CA001_4_        STILL LIVING
CA007_1_        THE BIRTH YEAR OF YOUR FATHER
CA007_2_        THE BIRTH YEAR OF YOUR FATHER
CA007_3_        THE BIRTH YEAR OF YOUR FATHER
CA007_4_        THE BIRTH YEAR OF YOUR FATHER
CA008_1_1_      which year pass away
CA008_1_2_      which year pass away
CA008_1_3_      which year pass away
CA008_1_4_      which year pass away
CA008_2_1_      age pass away
CA008_2_2_      age pass away
CA008_2_3_      age pass away
CA008_2_4_      age pass away
```

```
┌─────────────────────────────────────────────────────────────────────────────────┐
│                  Transfers from Children or Grandchildren                         │
└─────────────────────────────────────────────────────────────────────────────────┘
```

```
Wave Variable      Label                                                    Type

  1  H1FCANY       h1fcany:w1 any transfer from children/grandchildren       Categ
  2  H2FCANY       h2fcany:w2 any transfer from children/grandchildren       Categ

  1  H1FCAMT       h1fcamt:w1 amount of transfers from children/grandchildren Cont
  2  H2FCAMT       h2fcamt:w2 amount of transfers from children/grandchildren Cont
```

Descriptive Statistics

```
Variable          N          Mean       Std Dev      Minimum       Maximum

H1FCANY         17628        0.34         0.47         0.00          1.00
H2FCANY         18498        0.53         0.50         0.00          1.00

H1FCAMT         16890      1573.06     13564.96        0.00     1428000.00
H2FCAMT         18498      3173.61     14788.20        0.00     1050000.00
```

Categorical Variable Codes

```
Value--------------------------------|     H1FCANY        H2FCANY
.d:dk                                |        3
.m:missing                           |       74
.p:proxy                             |                       107
0.no                                 |     11607          8774
1.yes                                |      6021          9724
```

How Constructed:

HwFCANY indicates whether the respondent and spouse received any financial (monetary or in-kind support) help from their children or grandchildren in the past year. A code of 0 indicates that the respondent and spouse did not receive any financial support from children or grandchildren. A code of 1 indicates that the respondent and spouse receive some economic support from children or grandchildren.

HwFCAMT is the amount of financial transfers that the respondent and spouse received from their children or grandchildren in the past year. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwFCNAY and HwFCAMT are assigned special missing codes .d, .r, .m, respectively. If the questions were skipped because the respondent doesn't have any children or there is no non-coresiding children or grandchildren, HwFCNAY and HwFCAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask an entry question, i.e., whether respondent receives or gives the transfer or not. Only the amount questions are asked.

Differences with the RAND HRS

The amount of financial transfers that the respondent and spouse received from their children and grandchildren in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from children and grandchildren.

CHARLS Variables Used:

CE009_10_1	regular monetary support
CE009_10_2	regular in-kind support
CE009_10_3	non-regular monetary support
CE009_10_4	non-regular in-kind support
CE009_1_1	regular monetary support
CE009_1_2	regular in-kind support
CE009_1_3	non-regular monetary support
CE009_1_4	non-regular in-kind support
CE009_2_1	regular monetary support
CE009_2_2	regular in-kind support
CE009_2_3	non-regular monetary support
CE009_2_4	non-regular in-kind support
CE009_3_1	regular monetary support
CE009_3_2	regular in-kind support
CE009_3_3	non-regular monetary support
CE009_3_4	non-regular in-kind support
CE009_4_1	regular monetary support
CE009_4_2	regular in-kind support
CE009_4_3	non-regular monetary support
CE009_4_4	non-regular in-kind support
CE009_5_1	regular monetary support
CE009_5_2	regular in-kind support
CE009_5_3	non-regular monetary support
CE009_5_4	non-regular in-kind support
CE009_6_1	regular monetary support
CE009_6_2	regular in-kind support
CE009_6_3	non-regular monetary support
CE009_6_4	non-regular in-kind support
CE009_7_1	regular monetary support
CE009_7_2	regular in-kind support
CE009_7_3	non-regular monetary support
CE009_7_4	non-regular in-kind support
CE009_8_1	regular monetary support
CE009_8_2	regular in-kind support
CE009_8_3	non-regular monetary support
CE009_8_4	non-regular in-kind support
CE009_9_1	regular monetary support
CE009_9_2	regular in-kind support
CE009_9_3	non-regular monetary support
CE009_9_4	non-regular in-kind support
CE013_10_1	regular monetary support
CE013_10_2	regular in-kind support
CE013_10_3	non-regular monetary support

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CE013_10_4      non-regular in-kind support
CE013_1_1       regular monetary support
CE013_1_2       regular in-kind support
CE013_1_3       non-regular monetary support
CE013_1_4       non-regular in-kind support
CE013_2_1       regular monetary support
CE013_2_2       regular in-kind support
CE013_2_3       non-regular monetary support
CE013_2_4       non-regular in-kind support
CE013_3_1       regular monetary support
CE013_3_2       regular in-kind support
CE013_3_3       non-regular monetary support
CE013_3_4       non-regular in-kind support
CE013_4_1       regular monetary support
CE013_4_2       regular in-kind support
CE013_4_3       non-regular monetary support
CE013_4_4       non-regular in-kind support
CE013_5_1       regular monetary support
CE013_5_2       regular in-kind support
CE013_5_3       non-regular monetary support
CE013_5_4       non-regular in-kind support
CE013_6_1       regular monetary support
CE013_6_2       regular in-kind support
CE013_6_3       non-regular monetary support
CE013_6_4       non-regular in-kind support
CE013_7_1       regular monetary support
CE013_7_2       regular in-kind support
CE013_7_3       non-regular monetary support
CE013_7_4       non-regular in-kind support
CE013_8_1       regular monetary support
CE013_8_2       regular in-kind support
CE013_8_3       non-regular monetary support
CE013_8_4       non-regular in-kind support
CE013_9_1       regular monetary support
CE013_9_2       regular in-kind support
CE013_9_3       non-regular monetary support
CE013_9_4       non-regular in-kind support
```

Transfers to Children or Grandchildren

Wave	Variable	Label	Type
1	H1TCANY	h1tcany:w1 any transfer to children/grandchildren	Categ
2	H2TCANY	h2tcany:w2 any transfer to children/grandchildren	Categ
1	H1TCAMT	h1tcamt:w1 amount of transfers to children/grandchildren	Cont
2	H2TCAMT	h2tcamt:w2 amount of transfers to children/grandchildren	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TCANY	17620	0.17	0.38	0.00	1.00
H2TCANY	18498	0.29	0.46	0.00	1.00
H1TCAMT	17202	783.48	7800.44	0.00	350000.00
H2TCAMT	18498	3007.81	85908.65	0.00	8103000.00

Categorical Variable Codes

Value	H1TCANY	H2TCANY
.d:dk	6	
.m:missing	78	
.p:proxy		107
.r:refuse	1	
0.no	14616	13070
1.yes	3004	5428

How Constructed:

HwTCANY indicates whether the respondent and spouse gave any financial help to their children and/or grandchildren in the past year. A code of 0 indicates that the respondent and spouse did not give any financial support from children and/or grandchildren. A code of 1 indicates that the respondent and spouse give some financial support from children and/or grandchildren.

HwTCAMT is the amount of financial transfers that the respondent and spouse made to their children or grandchildren in the past year. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwTCNAY and HwTCAMT are assigned special missing codes .d, .r, .m, respectively. If the questions were skipped because the respondent doesn't have any children or there is no non-coresiding children or grandchildren, HwTCNAY and HwTCAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask an entry question, i.e., whether respondent receives or gives the transfer or not. Only the amount questions are asked.

Differences with the RAND HRS

The amount of financial transfers that the respondent and spouse gave to their children and grandchildren in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from children and grandchildren.

CHARLS Variables Used:

CE029_10_1	regular monetary support
CE029_10_2	regular in-kind support
CE029_10_3	non-regular monetary support
CE029_10_4	non-regular in-kind support
CE029_1_1	regular monetary support
CE029_1_2	regular in-kind support
CE029_1_3	non-regular monetary support
CE029_1_4	non-regular in-kind support
CE029_2_1	regular monetary support
CE029_2_2	regular in-kind support
CE029_2_3	non-regular monetary support
CE029_2_4	non-regular in-kind support
CE029_3_1	regular monetary support
CE029_3_2	regular in-kind support
CE029_3_3	non-regular monetary support
CE029_3_4	non-regular in-kind support
CE029_4_1	regular monetary support
CE029_4_2	regular in-kind support
CE029_4_3	non-regular monetary support
CE029_4_4	non-regular in-kind support
CE029_5_1	regular monetary support
CE029_5_2	regular in-kind support
CE029_5_3	non-regular monetary support
CE029_5_4	non-regular in-kind support
CE029_6_1	regular monetary support
CE029_6_2	regular in-kind support
CE029_6_3	non-regular monetary support
CE029_6_4	non-regular in-kind support
CE029_7_1	regular monetary support
CE029_7_2	regular in-kind support
CE029_7_3	non-regular monetary support
CE029_7_4	non-regular in-kind support
CE029_8_1	regular monetary support
CE029_8_2	regular in-kind support
CE029_8_3	non-regular monetary support
CE029_8_4	non-regular in-kind support
CE029_9_1	regular monetary support
CE029_9_2	regular in-kind support
CE029_9_3	non-regular monetary support
CE029_9_4	non-regular in-kind support

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Transfers from Parents or Parents-in-law

</div>

Wave	Variable	Label	Type
1	H1FPANY	h1fpany:w1 any transfer from parents/parents-in-law	Categ
2	H2FPANY	h2fpany:w2 any transfer from parents/parents-in-law	Categ
1	H1FPAMT	h1fpamt:w1 amount of transfers from parents/parents-in-law	Cont
2	H2FPAMT	h2fpamt:w2 amount of transfers from parents/parents-in-law	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FPANY	17691	0.02	0.13	0.00	1.00
H2FPANY	16351	0.03	0.18	0.00	1.00
H1FPAMT	17676	62.19	1118.40	0.00	60000.00
H2FPAMT	16351	91.77	1408.84	0.00	100000.00

Categorical Variable Codes

Value	H1FPANY	H2FPANY
.m:missing	13	2228
.p:proxy		26
.r:refuse	1	
0.no	17381	15818
1.yes	310	533

How Constructed:

HwFPANY indicates whether the respondent and spouse received any financial (monetary or in-kind support) help from their parents or parents-in-law in the past year. A code of 0 indicates that the respondent and spouse did not receive any financial support from parents or parents-in-law. A code of 1 indicates that the respondent and spouse receive some financial support from parents or parents-in-law.

HwFPAMT is the amount of financial transfers that the respondent and spouse received from their parents or parents-in-law in the past year. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwFPNAY and HwFPAMT are assigned special missing codes .d, .r, .m, respectively. If the questions were skipped because respondent's both parents/parents-in-law or one of the parents/parents-in-law are household members or died before 2010, HwFPNAY and HwFPAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask an entry question, i.e., whether respondent receives or gives the transfer or not. Only the amount questions are asked.

Differences with the RAND HRS

The amount of financial transfers that the respondent and spouse received from their parents or parents-in-law in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from parents and/or parents' in-law.

CHARLS Variables Used:

CE002_1	regular monetary support
CE002_2	regular in-kind support
CE002_3	non-regular monetary support
CE002_4	non-regular in-kind support
CE005_1	regular monetary support
CE005_2	regular in-kind support
CE005_3	non-regular monetary support
CE005_4	non-regular in-kind support

Transfers to Parents or Parents-in-law

Wave	Variable	Label	Type
1	H1TPANY	h1tpany:w1 any transfer to parents/parents-in-law	Categ
2	H2TPANY	h2tpany:w2 any transfer to parents/parents-in-law	Categ
1	H1TPAMT	h1tpamt:w1 amount of transfers to parents/parents-in-law	Cont
2	H2TPAMT	h2tpamt:w2 amount of transfers to parents/parents-in-law	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TPANY	17688	0.24	0.43	0.00	1.00
H2TPANY	16136	0.34	0.47	0.00	1.00
H1TPAMT	17583	403.75	2392.03	0.00	98000.00
H2TPAMT	16136	819.11	2881.51	0.00	69100.00

Categorical Variable Codes

Value	H1TPANY	H2TPANY
.d:dk	3	
.m:missing	13	2436
.p:proxy		33
.r:refuse	1	
0.no	13418	10670
1.yes	4270	5466

How Constructed:

HwTPANY indicates whether the respondent and spouse gave any financial help to their parents or parents-in-law in the past year. A code of 0 indicates that the respondent and spouse did not give any financial support from parents or parents-in-law. A code of 1 indicates that the respondent and spouse give some financial support from parents or parents-in-law.

HwTPAMT is the amount of financial transfers that the respondent and spouse made to their parents or parents-in-law in the past year. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwTPNAY and HwTPAMT are assigned special missing codes .d, .r, .m, respectively. If the questions were skipped because respondent's both parents/parents-in-law or one of the parents/parents-in-law are household members or died before 2010, HwTPNAY and HwTPAMT are assigned a value of zero.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask an entry question, i.e., whether respondent receives or gives the transfer or not. Only the amount questions are asked.

Differences with the RAND HRS

The amount of economic transfers that the respondent and spouse gave to parents and or parents-in-law in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

These variable are not available in RAND HRS but are available in RAND Family data. HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from parents and parents' in-law.

CHARLS Variables Used:

CE022_1	regular monetary support
CE022_2	regular in-kind support
CE022_3	non-regular monetary support
CE022_4	non-regular in-kind support
CE025_1	regular monetary support
CE025_2	regular in-kind support
CE025_3	non-regular monetary support
CE025_4	non-regular in-kind support

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┌─────────────────────────────────────────────────────────────────────────────┐
│                      Transfers from Relative or Others                        │
└─────────────────────────────────────────────────────────────────────────────┘
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Wave Variable      Label                                                    Type

  1  H1FOANY       h1foany:w1 any transfer from others                      Categ
  2  H2FOANY       h2foany:w2 any transfer from others                      Categ

  1  H1FOAMT       h1fotmt:w1 amount of transfers from others               Cont
  2  H2FOAMT       h2foamt:w2 amount of transfers from others               Cont
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev      Minimum      Maximum

H1FOANY         17522       0.06        0.24         0.00         1.00
H2FOANY         18120       0.24        0.42         0.00         1.00

H1FOAMT         17490      410.62    10045.97         0.00    842000.00
H2FOAMT         18120     1260.27     7510.89         0.00    250000.00
```

Categorical Variable Codes

```
Value--------------------------------|      H1FOANY       H2FOANY
.d:dk                                |        15
.m:missing                           |       162           477
.p:proxy                             |                       8
.r:refuse                            |         6
0.no                                 |     16419         13858
1.yes                                |      1103          4262
```

How Constructed:

HwFOANY indicates whether the respondent and spouse received any financial (monetary or in-kind support) help from non-coresdiding relatives or others in the past year. A code of 0 indicates that the respondent and spouse did not receive any financial support from relatives or others. A code of 1 indicates that the respondent and spouse receive some financial support from relatives or others.

HwFOAMT is the amount of financial transfers that the respondent and spouse received from non-coresdiding relatives or others. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwFOANY and HwFOAMT are assigned special missing codes .d, .r, .m, respectively.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask the leading question, i.e., whether respondent receives or gives the transfer or not. Only the amount questions are asked.

Starting wave 2, CHARLS does not ask the financial transfer question to or from others. CHARLS adds a new question asking the financial transfer question to or from respondent's or spouse's siblings.

Differences with the RAND HRS

The amount of economic transfer that the respondent and spouse received from relatives or others in the past year in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

These variables are not available in RAND HRS but are available in RAND Family data. HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked regular transfer and non-regular transfer from others.

CHARLS Variables Used:

CE016_1	regular monetary support
CE016_2	regular in-kind support
CE016_3	non-regular monetary support
CE016_4	non-regular in-kind support
CE019_1	regular monetary support
CE019_2	regular in-kind support
CE019_3	non-regular monetary support
CE019_4	non-regular in-kind support

```
┌─────────────────────────────────────────────────────────────────────────┐
│                    Transfers to Relatives or Others                       │
└─────────────────────────────────────────────────────────────────────────┘
```

Wave Variable   Label   Type

  1 H1TOANY   h1toany:w1 any transfer to others   Categ
  2 H2TOANY   h2toany:w2 any transfer to others   Categ

  1 H1TOAMT   h1toamt:w1 amount of transfers to others   Cont
  2 H2TOAMT   h2toamt:w2 amount of transfers to others   Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1TOANY	17525	0.04	0.20	0.00	1.00
H2TOANY	18088	0.40	0.49	0.00	1.00
H1TOAMT	17506	171.87	2892.56	0.00	180000.00
H2TOAMT	18088	1290.29	4262.21	0.00	150000.00

Categorical Variable Codes

Value	H1TOANY	H2TOANY
.d:dk	12	
.m:missing	163	504
.p:proxy		13
.r:refuse	5	
0.no	16805	10848
1.yes	720	7240

How Constructed:

HwTOANY indicates whether the respondent and spouse gave any financial help to non-coresdiding relatives or others in the past year. A code of 0 indicates that the respondent and spouse did not give any financial support from relatives or others. A code of 1 indicates that the respondent and spouse give some financial support from relatives or others.

HwTOAMT is the amount of financial transfers that the respondent and spouse gave to non-coresdiding relatives or others in the past year. It is a summary variable that includes both regular and non-regular, monetary or in-kind transfers.

The monetary regular transfers include living expenses, water, electricity, telephone expenses, loans or rents. The non-regular transfers include the amount for main festivals, birthdays, weddings, and funerals. The in-kind transfers include supporting food, clothes and others.

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount. For non-regular transfers, the respondent reports total amount.

When respondent don't know, refused, or their answer is missing for other reason, HwTOANY and HwTOAMT are assigned special missing codes .d, .r, .m, respectively.

Cross Wave Differences in CHARLS

In wave 1, the respondent reports monthly, quarterly, half-yearly, or yearly regular transfers. Starting wave 2, the respondent reports total regular transfer amount.

Starting wave 2, CHARLS does not ask an entry question, i.e., whether respondent
receives or gives the transfer or not. Only the amount questions are asked.

Starting wave 2, CHARLS does not ask the financial transfer question to or from
others. CHARLS adds a new question asking the financial transfer question to or from
respondent's or spouse's siblings.

Differences with the RAND HRS

The amount of financial transfer that the respondent and spouse gave to relatives or
others in the past year in CHARLS is measured in Yuan whereas the equivalent measure
in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency
is necessary before comparison of these data.

These variables are not available in RAND HRS but are available in RAND Family data.
HRS only asked one total amount of financial transfer. Unlike HRS, CHARLS asked
regular transfer and non-regular transfer from others.

CHARLS Variables Used:

```
CE036_1        regular monetary support
CE036_2        regular in-kind support
CE036_3        non-regular monetary support
CE036_4        non-regular in-kind support
CE039_1        regular monetary support
CE039_2        regular in-kind support
CE039_3        non-regular monetary support
CE039_4        non-regular in-kind support
```

Total Family Financial Transfers

Wave	Variable	Label	Type
1	H1FREC	h1frec:w1 total amount of transfers received	Cont
2	H2FREC	h2frec:w2 total amount of transfers received	Cont
1	H1TGIV	h1tgiv:w1 total amount of transfers given	Cont
2	H2TGIV	h2tgiv:w2 total amount of transfers given	Cont
1	H1FTOT	h1ftot:w1 net value of financial transfers	Cont
2	H2FTOT	h2ftot:w2 net value of financial transfers	Cont

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
H1FREC	15431	2199.82	17774.64	0.00	1428000.00
H2FREC	10805	5829.68	20444.22	0.00	1050000.00
H1TGIV	15431	1395.06	8922.61	0.00	350000.00
H2TGIV	10750	6187.00	112640.67	0.00	8104000.00
H1FTOT	15294	809.73	19870.41	-350000.00	1428000.00
H2FTOT	10581	-368.69	110743.57	-7877800.00	369000.00

How Constructed:

HwFREC indicates the total amount of financial transfers that the respondent and spouse received in the past year. It is a summary variable which includes the following components:

1. amount of transfers from children or grandchildren (HwFCAMT)

2. amount of transfers from parents or parents-in-law (HwFPAMT)

3. amount of transfers from other (HwFOTMT)

HwFREC = HwFCAMT +HwFPAMT +HwFOTMT

HwTGIV indicates the total amount of financial transfers that the respondent and spouse gave in the past year. It is a summary variable which includes the following components:

1. amount of transfers to children or grandchildren (HwTCAMT)

2. amount of transfers to parents or parents-in-law (HwTPAMT)

3. amount of transfers to other (HwTOTMT)

HwTGIV = HwTCAMT +HwTAMT +HwTOTMT

HwFTOT indicate the net value of financial transfers in the past year.

HwFTOT = HwFREC- HwTGIV

Cross Wave Differences in CHARLS

Refer to "Cross Wave Differences in CHARLS" section of each component to identify differences between waves.

Differences with the RAND HRS

These values in CHARLS is measured in Yuan whereas the equivalent measure in RAND HRS is measured in U.S. dollars. Therefore, conversion into a common currency is necessary before comparison of these data.

Refer to "Differences with RAND HRS" section of each component to identify differences with the RAND HRS variable of the same name.

Section H: Employment History

```
+--------------------------------------------------------------------------------+
|                              Currently Working                                 |
+--------------------------------------------------------------------------------+
```

```
Wave Variable      Label                                                    Type

  1  R1WORK        r1work:w1 r currently working                            Categ
  2  R2WORK        r2work:w2 r currently working                            Categ

  1  S1WORK        s1work:w1 s currently working                            Categ
  2  S2WORK        s2work:w2 s currently working                            Categ

  1  R1WORK2       r1work2:w1 r works more than one job                     Categ
  2  R2WORK2       r2work2:w2 r works more than one job                     Categ

  1  S1WORK2       s1work2:w1 s works more than one job                     Categ
  2  S2WORK2       s2work2:w2 s works more than one job                     Categ
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1WORK	17464	0.68	0.47	0.00	1.00
R2WORK	18351	0.67	0.47	0.00	1.00
S1WORK	14768	0.72	0.45	0.00	1.00
S2WORK	15448	0.71	0.45	0.00	1.00
R1WORK2	11702	0.01	0.11	0.00	1.00
R2WORK2	12324	0.02	0.13	0.00	1.00
S1WORK2	10503	0.01	0.10	0.00	1.00
S2WORK2	10933	0.02	0.13	0.00	1.00

Categorical Variable Codes

Value	R1WORK	R2WORK
.d:dk	16	
.m:missing	225	
.r:refuse	1	
0.no	5659	6029
1.yes	11805	12322

Value	S1WORK	S2WORK
.d:dk	14	
.m:missing	107	
.u:unmar	2278	2418
.v:sp nr	538	638
0.no	4182	4517
1.yes	10586	10931

Value	R1WORK2	R2WORK2
.d:dk	70	
.m:missing	279	270
.r:refuse	4	
.w:not working	5651	6015
0.no	11570	12124
1.yes	132	200

Value	S1WORK2	S2WORK2
.d:dk	62	
.m:missing	146	111

.r:refuse		1	
.u:unmar		2278	2418
.v:sp nr		538	638
.w:not working		4177	4505
0.no		10390	10749
1.yes		113	184

How Constructed:

RwWORK indicates whether a respondent did any work in the past year. A value of 1 indicated that the respondent is either doing an employed paid job, is self-employed, is working unpaid for a family business, or working in the agricultural field. A value of 0 indicates that the respondent is not currently doing any work.

RwWORK2 indicates whether a respondent is working more than one job. RwWORK2 is set a value of zero (respondent is not working more than one job) if RwWORK is zero. Special missing code(.w) is assigned to the respondent who does not work for any job

Don't know, refused, or other missing responses of RwWORK and RwWORK2 are assigned special missing codes .d, .r, .m respectively. RwWORK and RwWORK2 are set to plain missing (.) for respondents who did not respond to this wave.

SwWORK is whether the respondent's spouse in the current wave is currently working. It is taken from the spouse's RwWORK. SwWORK2 is whether the respondent's spouse in the current wave is working more than one job. It is taken from the spouse's RwWORK2. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

The HRS asks the respondents "are you doing any work for pay at the present time". As a result in the RAND HRS, the definition of code 1 for RwWORK indicates currently working for pay and code 0 for RwWORK indicates currently not working for pay. Differently, the CHARLS asks respondents if they engage in agricultural or non-agricultural work.

Also different from the RwWORK in the RAND HRS, RwWORK in the Harmonized CHARLS indicates not only the paid work, and it also includes the unpaid family business.

The time span of the CHARLS is specific to the last year whereas the HRS refers to the present time.

CHARLS Variables Used:

```
Wave 1:
    FA001       ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FB011       PROCESSED RETIREMENT
    FB012       Have you completed receding position procedures ?
    FC001       Did you work for other famers in wage for at least ten d
    FC008       Did you work for your own household for at least ten day
    FC014       WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015       HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    FC019       DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FC020       DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
    FC021       How do you describe your non-agricultural job? Do you ea
    FD001       THE TYPE OF RECEIVING YOUR WAGE
```

```
Wave 2:
    FA001          engage in agricultural work for more than 10 days
    FA002          work for at least one hour last month
    FA003          have a job but are temporarily laid-off, on sick or othe
    FA005          do you expect to go back to this job
    FA006          do you receive any salary from this job
    FA006_W2_5     how many other jobs have you been doing from last iwr?
    FA007          ever work 3 months
    FA008          sure never work 3 months
    FB011          completed retirement procedures or internal retirement
    FB012          completed receding position procedures
    FC001          any work for other farmers in wage
    FC008          any work for own household
    FC014          last week any non-agricultural work
    FC014          last week any non-agricultural work
    FC015          currently laid-off
    FC017          expect to go back within 6 months
    FC019          more than one non-agricultural job
    FC020          main job
    FC021          type of non-agricultural job
    FD001          receive wage from wprkplace or dispatch company
    FJ001          how many side jobs
    XF1            preload work variable
    ZF13           preload variable
    ZF14           preload variable
```

Whether Self-Employed

```
Wave Variable      Label                                                        Type

  1  R1SLFEMP       r1slfemp:w1 r whether self-employed                         Categ
  2  R2SLFEMP       r2slfemp:w2 r whether self-employed                         Categ

  1  S1SLFEMP       s1slfemp:w1 s whether self-employed                         Categ
  2  S2SLFEMP       s2slfemp:w2 s whether self-employed                         Categ
```

Descriptive Statistics

```
Variable          N         Mean      Std Dev      Minimum      Maximum

R1SLFEMP        17464       0.07       0.25         0.00         1.00
R2SLFEMP        18351       0.07       0.26         0.00         1.00

S1SLFEMP        14768       0.07       0.25         0.00         1.00
S2SLFEMP        15448       0.08       0.27         0.00         1.00
```

Categorical Variable Codes

```
Value-------------------------------|     R1SLFEMP     R2SLFEMP
.m:missing                          |          242          258
0.not self-employed                 |        16319        17023
1.self-employed                     |         1145         1328

Value-------------------------------|     S1SLFEMP     S2SLFEMP
.m:missing                          |          121          101
.u:unmar                            |         2278         2418
.v:sp nr                            |          538          638
0.no                                |        13737        14251
1.yes                               |         1031         1197
```

How Constructed:

RwSLFEMP indicates whether the respondent is self-employed or not. It is a derived variable that is based on two questions:

First question:

"Among all your jobs, which one is your main job? [Main job is defined as the job at which you work the longest hours] Do you earn a wage, run your own business, or work for unpaid family business?"

Second question:

"How do you describe your non-agricultural job? Do you earn a wage, run your own business, or work for unpaid family business?"

RwSLFEMP is assigned a value of 1 if the respondent answers "run your own business" in either of the two questions. RwSLEMP has a value of 0 if not self-employed. If respondents don't know, missing, or refuse to answer, RwSLFEMP is assigned special missing values .d, .m, or .r, respectively. RwSLFEMP is set to plain missing (.) for respondents who did not respond to this wave.

SwSLFEMP is whether the respondent's spouse in the current wave is self-employed or not. It is taken from the spouse's values RwSLFEMP. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing

value of .u is used. If the respondent is not designated as coupled in the current
wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the HRS, there is a direct question asking about self-employment: "do you work for
someone else, are you self-employed, or what?" In the CHARLS, there are two questions:
one for main job if more than one job and with only one job.

CHARLS Variables Used:

Wave 1:
```
    FA001       ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FB011       PROCESSED RETIREMENT
    FB012       Have you completed receding position procedures ?
    FC001       Did you work for other famers in wage for at least ten d
    FC008       Did you work for your own household for at least ten day
    FC014       WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015       HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    FC019       DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FC020       DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
    FC021       How do you describe your non-agricultural job? Do you ea
    FD001       THE TYPE OF RECEIVING YOUR WAGE
Wave 2:
    FA001       engage in agricultural work for more than 10 days
    FA006_W2_5  how many other jobs have you been doing from last iwr?
    FA007       ever work 3 months
    FA008       sure never work 3 months
    FB011       completed retirement procedures or internal retirement
    FB012       completed receding position procedures
    FC001       any work for other farmers in wage
    FC008       any work for own household
    FC014       last week any non-agricultural work
    FC015       currently laid-off
    FC019       more than one non-agricultural job
    FC020       main job
    FC021       type of non-agricultural job
    FD001       receive wage from wprkplace or dispatch company
    FK002       did you search for a job last month
    XF1         preload work variable
    ZF13        preload variable
    ZF14        preload variable
```

Work Status

Wave	Variable	Label	Type
1	R1LBRF_C	r1lbrf_c:w1 r labor force status	Categ
2	R2LBRF_C	r2lbrf_c:w2 r labor force status	Categ
1	S1LBRF_C	s1lbrf_c:w1 s labor force status	Categ
2	S2LBRF_C	s2lbrf_c:w2 s labor force status	Categ

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1LBRF_C	17464	3.20	2.51	1.00	7.00
R2LBRF_C	18351	3.25	2.51	1.00	7.00
S1LBRF_C	14768	2.98	2.42	1.00	7.00
S2LBRF_C	15448	3.06	2.42	1.00	7.00

Categorical Variable Codes

Value	R1LBRF_C	R2LBRF_C
.d:dk	16	
.m:missing	225	258
.r:refuse	1	
1.farming	7311	7445
2.employed	3064	3151
3.self-employed	1145	1328
4.unpaid family business	285	398
5.unemployed	44	47
6.retired	1638	1846
7.not in labor force	3977	4136

Value	S1LBRF_C	S2LBRF_C
.d:dk	14	
.m:missing	107	101
.u:unmar	2278	2418
.v:sp nr	538	638
1.farming	6514	6547
2.employed	2796	2843
3.self-employed	1031	1197
4.unpaid family business	245	344
5.unemployed	40	39
6.retired	1293	1501
7.not in labor force	2849	2977

How Constructed:

RwLBRF_C summarizes the labor force status for the respondent as agricultural work, employed, self-employed, unpaid family business, unemployed, retired, and not in the labor force.

RwLBRF_C is derived based on the following questions:

1. If the respondent has only one job:

"How do you describe your non-agricultural job? Do you earn a wage, run your own business, or work for unpaid family business?"

       a. Employed

       b. Self-employed

       c. Unpaid family business

2. If the respondent has more than one job:

"Among all your jobs, which one is your main job? [Main job is defined as the job at which you work the longest hours] Do you earn a wage, run your own business, or work for unpaid family business?"

       a. Employed

       b. Self-employed

       c. Unpaid family business

3. If the respondent is unemployed, retired or not in the labor force:

"Have you completed retirement procedures (including early retirement) or internal retirement(Note: Retirement from government departments, enterprises and institutions, not including retirement in the sense of getting agricultural insurance)?

"Did you search for a new job during the last month?"

4. If the respondent does agricultural work:

"Did you engage in agricultural work (including farming, forestry, fishing, and husbandry for your own family or others) for more than 10 days in the past year?"

RwLBRF_C is derived using the order of above listed questions, i.e. RwLBRF_C first takes the value from (1) for only one job, then (2) for more than one job, then (3) for unemployed, retired and not in labor force, then (4) agricultural work. As a result RwLBRF_C gives precedence to working statuses associated with employment and retirement.

If a respondent is currently not working and is searching for a new job, they are assigned a code of "unemployed". If a respondent is currently not working and mentions having completed retirement procedures, they are assigned a code of "retired". If a respondent is currently not working and does not mention searching for a new job or having completed retirement procedures, they are assigned a code of "not in labor force". RwLBRF_C is set to plain missing (.) for respondents who did not respond to this wave.

SwLBRF_C summarizes the labor force status for the respondent's spouse. It is taken directly from the respondent's spouse's values to RwLBRF_C. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

Starting in Wave 2, if a respondent previously reported having completed retirement procedures, they are not asked again in the following waves if they have completed retirement procedures. In these cases assuming the respondent is still not working RwLBRF_C is based on the previous report of retirement.

Differences with the RAND HRS

Unlike the HRS, the CHARLS use different categories to classify the labor force such as agricultural work and unpaid family business.

Because of differences in surveys and variables' derivation, RwLBRF_C in the Harmonized CHARLS uses a different categorization than RwLBRF in the RAND HRS. For example, RwLBRF_C does not separate out full-time and part-time work, which are treated as distinct categories in RwLBRF. Also, unlike RwLBRF in the RAND HRS, RwLBRF_C does not feature the status of "partly retired".

CHARLS Variables Used:

```
Wave 1:
    FA001       ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FA007       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FA008       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB011       PROCESSED RETIREMENT
    FB012       Have you completed receding position procedures ?
    FC004       How many months did you work on [¡] in wage for other f
    FC005       How many months did you work on [¡] in wage for other f
    FC006       How many months did you work on [¡] in wage for other f
    FC009       THE NUMBER OF MONTHS WORKING ON AGRICULTURE PER YEAR
    FC010       THE NUMBER OF DAYS WORKING ON AGRICULTURE PER WEEK
    FC020       DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
    FC021       How do you describe your non-agricultural job? Do you ea
    FK002       search for a new job
Wave 2:
    FA001       engage in agricultural work for more than 10 days
    FA006_W2_5  how many other jobs have you been doing from last iwr?
    FA007       ever work 3 months
    FA008       sure never work 3 months
    FB011       completed retirement procedures or internal retirement
    FB012       completed receding position procedures
    FC001       any work for other farmers in wage
    FC008       any work for own household
    FC014       last week any non-agricultural work
    FC015       currently laid-off
    FC019       more than one non-agricultural job
    FC020       main job
    FC021       type of non-agricultural job
    FD001       receive wage from wprkplace or dispatch company
    FK002       did you search for a job last month
    XF1         preload work variable
    ZF13        preload variable
    ZF14        preload variable
```

Wave Variable   Label   Type

  1 R1RETEMP   r1retemp:w1 r whether retired   Categ
  2 R2RETEMP   r2retemp:w2 r whether retired   Categ

  1 S1RETEMP   s1retemp:w1 s whether retired   Categ
  2 S2RETEMP   s2retemp:w2 s whether retired   Categ

Descriptive Statistics

Variable   N   Mean   Std Dev   Minimum   Maximum

R1RETEMP   17464   0.09   0.29   0.00   1.00
R2RETEMP   18351   0.10   0.30   0.00   1.00

S1RETEMP   14768   0.09   0.28   0.00   1.00
S2RETEMP   15448   0.10   0.30   0.00   1.00

Categorical Variable Codes

Value	R1RETEMP	R2RETEMP
.m:missing	242	258
0.no	15826	16505
1.yes	1638	1846

Value	S1RETEMP	S2RETEMP
.m:missing	121	101
.u:unmar	2278	2418
.v:sp nr	538	638
0.no	13475	13947
1.yes	1293	1501

How Constructed:

RwRETEMP indicates whether the respondent is retired or not. It is derived based on
RwLBRF_C. A value of 1 indicated that the respondent is retired. A value of 0
indicates that the respondent is not retired. Please see RwLBRF_C for more detail.
RwLBRF_C is set to plain missing (.) for respondents who did not respond to this wave.

SwRETEMP indicates whether the respondent's spouse's is retired. SwRETEMP is taken
from the spouse's values RwRETEMP. If the respondent is not designated as coupled in
the current wave and assumed to be single a special missing value of .u is used. If
the respondent is not designated as coupled in the current wave but reports being
married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

No difference known.

CHARLS Variables Used:

Wave 1:

```
    FA001          ENGAGE IN AGRICULTURAL WORK FOR MORE THAN 10 DAYS
    FA008          HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB011          PROCESSED RETIREMENT
    FB011          PROCESSED RETIREMENT
    FB012          Have you completed receding position procedures ?
    FC001          Did you work for other famers in wage for at least ten d
    FC008          Did you work for your own household for at least ten day
    FC014          WORK FOR AT LEAST ONE HOUR LAST MONTH IN NON-AGRICULTURA
    FC015          HAVE NON-AGRICULTURAL WAGE OR SELF-EMPLOYED WORK BUT ARE
    FC019          DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FC020          DO YOU EARN A WAGE, RUN YOUR OWN BUSINESS
    FC021          How do you describe your non-agricultural job? Do you ea
    FD001          THE TYPE OF RECEIVING YOUR WAGE
    FK002          search for a new job
Wave 2:
    FA001          engage in agricultural work for more than 10 days
    FA006_W2_5     how many other jobs have you been doing from last iwr?
    FA007          ever work 3 months
    FA008          sure never work 3 months
    FB011          completed retirement procedures or internal retirement
    FB012          completed receding position procedures
    FC001          any work for other farmers in wage
    FC008          any work for own household
    FC014          last week any non-agricultural work
    FC015          currently laid-off
    FC019          more than one non-agricultural job
    FC020          main job
    FC021          type of non-agricultural job
    FD001          receive wage from wprkplace or dispatch company
    FK002          did you search for a job last month
    XF1            preload work variable
    ZF13           preload variable
    ZF14           preload variable
```

Hours of work per week at current job

```
Wave Variable      Label                                                      Type

  1  R1JHOURS_C    r1jhours_c:w1 r total hours worked per week on main job    Cont
  2  R2JHOURS_C    r2jhours_c:w2 r total hours worked per week on main job    Cont

  1  S1JHOURS_C    s1jhours_c:w1 s total hours worked per week on main job    Cont
  2  S2JHOURS_C    s2jhours_c:w2 s total hours worked per week on main job    Cont

  1  R1JHOUR2      r1jhour2:w1 r hours worked/week on other jobs              Cont
  2  R2JHOUR2      r2jhour2:w2 r hours worked/week on other jobs              Cont

  1  S1JHOUR2      s1jhour2:w1 s hours worked/week on other jobs              Cont
  2  S2JHOUR2      s2jhour2:w2 s hours worked/week on other jobs              Cont
```

Descriptive Statistics

Variable	N	Mean	Std Dev	Minimum	Maximum
R1JHOURS_C	11152	42.64	25.51	0.00	168.00
R2JHOURS_C	11636	42.32	26.04	0.00	168.00
S1JHOURS_C	10008	43.33	25.30	0.00	168.00
S2JHOURS_C	10328	43.11	25.92	0.00	168.00
R1JHOUR2	144	11.91	18.68	0.00	105.00
R2JHOUR2	188	8.96	16.68	0.00	105.00
S1JHOUR2	124	11.56	17.90	0.00	105.00
S2JHOUR2	173	9.15	16.57	0.00	105.00

How Constructed:

RwJHOURS_C is the number of hours that the respondents works per week for their main job in the past year. RwJHOURS_C includes the hours from working as an employee, working as self-employed, working without pay for a family business, working at another person's farm, and working at one's own farm.

The variable is derived from two components:

1. number of work hour on each day

2. number of days work in each week

In order to calculate the number of hours per week in the past year we use the following formula:

RwJHOURS_C = number of work hours on each day * number of days work in each week

In the case the respondent reports working more than 7 days a week RwJHOURS_C is calculated as number of works hour * 7 days a week.

CHARLS allows respondents to report the hours of work for multiple jobs. If a respondent works as an employee then RwJHOURS_C is based on hours per week from working as an employee. If a respondent is self-employed then RwJHOURS_C is based on hours working as self-employed. If a respondent works as a farmer then RwJHOURS_C is based on the number of hours working at another person's farm or the number of hours working at one's own farm, whichever is greater. If a respondent works without pay for a family business they are not asked the number of hours are assigned a special missing value .f. Special missing .m is assigned for missing response. Special missing

.w is assigned if the respondent is not rocking. RwJHOURS_C is set to plain missing (.) for respondents who did not respond to this wave.

RwJHOUR2 is the number of hours per week the respondent works for other jobs (side jobs). In the case that a respondent reports working more than 168 hours a week, RwJHOUR2 is top-coded at 168 hours. If the respondent does not report working more than one job, special missing .w is assigned. Don't know, refused, or other missing responses of RwJHOUR2 are assigned special missing codes .d, .r, .m respectively. RwJHOUR2 is set to plain missing (.) for respondents who did not respond to this wave.

SwJHOURS_C is the number of hours the respondent's spouse in the current wave spends on their main job. It is taken from the spouse's values RwJHOURS_C. SwJHOUR2 is the number of hours the respondent's spouse in the current wave spends on their other job. It is taken from the spouse's values RwJHOUR2. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the HRS, a respondent reports the average number of working hours a week at his/her main job.

Unlike the HRS, the CHARLS asks the number of hours separately for working as an employee, working as self-employed, working for other farmers, and working at one's own farm. RwJHOURS_C is the number of hours worked per week at the main job as identified in RwLBRF_C. Also different from the RwJHOURS in the RAND HRS, RwJHOURS_C is calculated by using the number of hours a day and the number of days a week.

CHARLS Variables Used:

```
Wave 1:
    FA007         HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FA008         HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB011         PROCESSED RETIREMENT
    FB012         Have you completed receding position procedures ?
    FC004         How many months did you work on [¡] in wage for other f
    FC005         How many months did you work on [¡] in wage for other f
    FC006         How many months did you work on [¡] in wage for other f
    FC009         THE NUMBER OF MONTHS WORKING ON AGRICULTURE PER YEAR
    FC010         THE NUMBER OF DAYS WORKING ON AGRICULTURE PER WEEK
    FC011         THE NUMBER OF HOURS WORKING PER DAY
    FC019         DO YOU CURRENTLY HAVE MORE THAN ONE JOB
    FE001         HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FE002         HOW MANY DAYS A WEEK DO YOU USUALLY WORK
    FE003         HOW MANY HOURS DO YOU USUALLY WORK PER DAY
    FH001         HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
    FH002         HOW MANY DAYS DO YOU USUALLY WORK PER month
    FH003         HOW MANY HOURS DO YOU USUALLY WORK PER day
Wave 2:
    FA001         engage in agricultural work for more than 10 days
    FA002         work for at least one hour last month
    FA005         do you expect to go back to this job
    FA006         do you receive any salary from this job
    FA007         ever work 3 months
    FA008         sure never work 3 months
    FB011         completed retirement procedures or internal retirement
    FB012         completed receding position procedures
```

```
FC004          how many months did you work for other farmers
FC005          how many days did you work for other farmers per week
FC006          how many hours did you work for other farmers per day
FC009          how many months did you work for own household
FC010          how many days did you work for own household per week
FC011          how many hours did you work for own household per day
FC019          more than one non-agricultural job
FC020          main job
FC021          type of non-agricultural job
FD001          receive wage from wprkplace or dispatch company
FE001          how many months did you work in the past year
FE002          how many days did you work per week
FE003          how many hours did you work per day
FH001          how many months did you work in the past year
FH002          how many days did you work per week
FH003          how many hours did you work per day
```

<div style="border:1px solid">

Weeks worked per year at main job

</div>

```
Wave Variable      Label                                                Type

  1  R1JWEEKS_C    r1jweeks_c:w1 r weeks worked per year on main job    Cont
  2  R2JWEEKS_C    r2jweeks_c:w2 r weeks worked per year on main job    Cont

  1  S1JWEEKS_C    s1jweeks_c:w1 s weeks worked per year on main job    Cont
  2  S2JWEEKS_C    s2jweeks_c:w2 s weeks worked per year on main job    Cont
```

Descriptive Statistics

```
Variable          N          Mean       Std Dev     Minimum     Maximum

R1JWEEKS_C      11323        31.55        19.15        0.00        51.96
R2JWEEKS_C      11779        33.26        18.89        0.00        51.96

S1JWEEKS_C      10168        31.82        19.04        0.00        51.96
S2JWEEKS_C      10458        33.38        18.79        0.00        51.96
```

How Constructed:

RwJWEEK_C is the number of weeks a respondent works per year at his/her main job. RwJWEEK_C includes the worked weeks from working as an employee, working as self-employed, working without pay for a family business, working at another person's farm, and working at one's own farm.

Respondents are asked about the number of months worked per year. Respondents can report the months of working for multiple jobs. For example, a respondent can report months of working for both working as an employee and working at another person's farm. RwJWEEKS_C recodes the number of weeks from the main job identified in RwLBRF_C. RwJWEEKS_C is derived by multiplying the number of months by 4.33 so that RwJWEEKS_C is expressed in number of weeks.

If a respondent works as an employee then RwJWEEKS_C is based on weeks from working as an employee. If a respondent is self-employed then RwJWEEKS_C is based on weeks working as self-employed. If a respondent works as a farmer then RwJWEEKS_C is based on weeks working at another person's farm or weeks working at one's own farm, whichever is greater. If a respondent works without pay for a family business they are not asked the number of hours are assigned a special missing value .f. If the respondent does not report working, special missing .w is assigned. RwJWEEK_C is set to plain missing (.) for respondents who did not respond to this wave.

SwJWEEKS_C is the number of hours the respondent's spouse in the current wave spends on their job. It is taken from the spouse's values RwJWEEKS_C. If the respondent is not designated as coupled in the current wave and assumed to be single a special missing value of .u is used. If the respondent is not designated as coupled in the current wave but reports being married a special missing value of .v is used.

Cross Wave Differences in CHARLS

No differences known.

Differences with the RAND HRS

In the HRS, a respondent reports the average number of working weeks per year at his/her main job.

Unlike the HRS, the CHARLS asks the number of hours separately for working as an employee, working as self-employed, working for other farmers, and working at one's

own farm. RwJWEEKS_C is the number of weeks worked per year at the main job as
identified in RwLBRF_C. Also different from RwJWEEKS in the RAND HRS, RwJWEEKS_C is
calculated using the number of months times 4.33 so that RwJWEEKS_C is expressed in
number of weeks.

CHARLS Variables Used:

```
Wave 1:
    FA007       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FA008       HAVE YOU EVER WORKED FOR AT LEAST A FEW MONTHS
    FB011       PROCESSED RETIREMENT
    FB012       Have you completed receding position procedures ?
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    FE001       HOW MANY MONTHS DO YOU USUALLY WORK PER YEAR
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    FA005       do you expect to go back to this job
    FA006       do you receive any salary from this job
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    FA008       sure never work 3 months
    FB011       completed retirement procedures or internal retirement
    FB012       completed receding position procedures
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    FC005       how many days did you work for other farmers per week
    FC006       how many hours did you work for other farmers per day
    FC009       how many months did you work for own household
    FC010       how many days did you work for own household per week
    FC011       how many hours did you work for own household per day
    FC019       more than one non-agricultural job
    FC020       main job
    FC021       type of non-agricultural job
    FD001       receive wage from wprkplace or dispatch company
    FE001       how many months did you work in the past year
    FE002       how many days did you work per week
    FE003       how many hours did you work per day
    FH001       how many months did you work in the past year
    FH002       how many days did you work per week
    FH003       how many hours did you work per day
```