STATA

Statistics/Data Analysis

```
      -------------------------------------------------------------------------------
           name:  <unnamed>
            log:  E:\nhats\nhats_code\NHATS data setup\logs\/1a-help_hours_imputation
    > _19_Apr_2019.smcl
       log type:  text
     opened on:  19 Apr 2019, 16:24:29

 1 .
 2 .
 3 .
 4 .
 5 . *********************************************
 6 .
 7 . cd "${work}"
   E:\nhats\data\NHATS working data

 8 .
 9 . **User note: This section can be commented out after run one time to set up da
   > tasets
10. *********************************************************************
11. //combine op and sp data files
12.
13. forvalues w=1/2{
    2.   use "${r`w'raw}NHATS_Round_`w'_OP_File_v2.dta", clear
    3.   sort spid opid
    4.
14.   merge m:1 spid using round_`w'_1.dta //bring in sorted sp ivw dataset
    5.   keep if _merge==3 //drop obs with no OP entries
    6.   save R`w'_OPSPlinked.dta, replace
    7. }

      Result                           # of obs.
      -----------------------------------------
      not matched                            667
          from master                          0  (_merge==1)
          from using                         667  (_merge==2)

      matched                             38,097  (_merge==3)
      -----------------------------------------
   (667 observations deleted)
   file R1_OPSPlinked.dta saved
   (label r1dresid already defined)
   (label r2dresid already defined)

      Result                           # of obs.
      -----------------------------------------
      not matched                            465
          from master                          0  (_merge==1)
          from using                         465  (_merge==2)

      matched                             37,944  (_merge==3)
      -----------------------------------------
   (465 observations deleted)
   file R2_OPSPlinked.dta saved

15.
16. forvalues w=3/$w{
    2.   use "${r`w'raw}NHATS_Round_`w'_OP_File.dta", clear
    3.   sort spid opid
    4.
```

```
17. merge m:1 spid using round_`w'_1.dta //bring in sorted sp ivw dataset
    5. keep if _merge==3 //drop obs with no OP entries
    6. save R`w'_OPSPlinked.dta, replace
    7. }
  (label r1dresid already defined)
  (label r2dresid already defined)
  (label r3dresid already defined)
```

```
     Result                          # of obs.
     -----------------------------------------
     not matched                          317
         from master                        0  (_merge==1)
         from using                       317  (_merge==2)

     matched                           35,745  (_merge==3)
     -----------------------------------------
```

```
  (317 observations deleted)
  file R3_OPSPlinked.dta saved
  (label r1dresid already defined)
  (label r2dresid already defined)
  (label r3dresid already defined)
  (label r4dresid already defined)
```

```
     Result                          # of obs.
     -----------------------------------------
     not matched                          211
         from master                        0  (_merge==1)
         from using                       211  (_merge==2)

     matched                           33,016  (_merge==3)
     -----------------------------------------
```

```
  (211 observations deleted)
  file R4_OPSPlinked.dta saved
  (label r1dresid already defined)
  (label r2dresid already defined)
  (label r3dresid already defined)
  (label r4dresid already defined)
  (label r5dresid already defined)
  (label r5dcontnew already defined)
```

```
     Result                          # of obs.
     -----------------------------------------
     not matched                          394
         from master                        0  (_merge==1)
         from using                       394  (_merge==2)

     matched                           52,285  (_merge==3)
     -----------------------------------------
```

```
  (394 observations deleted)
  file R5_OPSPlinked.dta saved
  (label r1dresid already defined)
  (label r2dresid already defined)
  (label r3dresid already defined)
  (label r4dresid already defined)
  (label r5dresid already defined)
  (label r6dresid already defined)
```

```
     Result                          # of obs.
     -----------------------------------------
     not matched                          284
         from master                        0  (_merge==1)
         from using                       284  (_merge==2)
```

```
      matched                             51,174  (_merge==3)
      -----------------------------------------
  (284 observations deleted)
  file R6_OPSPlinked.dta saved
  (label r5dcontnew already defined)
  (label r1dresid already defined)
  (label r2dresid already defined)
  (label r3dresid already defined)
  (label r4dresid already defined)
  (label r5dresid already defined)
  (label r6dresid already defined)
  (label r7dresid already defined)

      Result                          # of obs.
      -----------------------------------------
      not matched                           189
          from master                         0  (_merge==1)
          from using                        189  (_merge==2)

      matched                             49,065  (_merge==3)
      -----------------------------------------
  (189 observations deleted)
  file R7_OPSPlinked.dta saved

18.
19.
20. //now create limited datasets for each wave with only needed variables
21. forvalues w=1/$w{
    2.        use R`w'_OPSPlinked.dta
    3.
22.                if inlist(`w',1,2,3,4){
    4.                        keep spid opid op`w'* wave w`w'anfinwgt0 w`w'varstr
  > at w`w'varunit r`w'dresid ///
  >                        mo`w'douthelp mo`w'dinsdhelp mo`w'dbedhelp sc`w'deathelp sc`w'
  > dbathhelp ///
  >                        sc`w'dtoilhelp sc`w'ddreshelp ha`w'dlaunreas ha`w'dshopreas ha
  > `w'dmealreas ///
  >                        ha`w'dbankreas mc`w'dmedsreas
    5.                }
    6.                //add new wave to list below
23.                if inrange(`w',5,$w){
    7.                        keep spid opid op`w'* wave w`w'anfinwgt0 w`w'varstr
  > at w`w'varunit r`w'dresid ///
  >                        mo`w'douthelp mo`w'dinsdhelp mo`w'dbedhelp sc`w'deathelp sc`w'
  > dbathhelp ///
  >                        sc`w'dtoilhelp sc`w'ddreshelp ha`w'dlaunreas ha`w'dshopreas ha
  > `w'dmealreas ///
  >                        ha`w'dbankreas mc`w'dmedsreas w`w'an2011wgt0
    8.                }
    9.
24.        rename (op`w'* w`w'* r`w'* mo`w'* sc`w'* ha`w'* mc`w'*) (*)
   10.
25.        save R`w'_OPSPltd.dta, replace
   11. }
  file R1_OPSPltd.dta saved
  file R2_OPSPltd.dta saved
  file R3_OPSPltd.dta saved
  file R4_OPSPltd.dta saved
  file R5_OPSPltd.dta saved
  file R6_OPSPltd.dta saved
  file R7_OPSPltd.dta saved
```

```
26.
27.
28.
29. ********************************************************************
30. //merge into single file for initial setup
31. use R1_OPSPltd.dta, clear

32. forvalues w=2/$w{
    2. append using R`w'_OPSPltd.dta
    3. }

33.
34. save R1234_OPSPltd_n.dta, replace
  file R1234_OPSPltd_n.dta saved

35. ********************************************************************
36.
37. tab wave, missing

  Survey wave |      Freq.      Percent        Cum.
------------+-----------------------------------
          1 |     38,097        12.81       12.81
          2 |     37,944        12.76       25.57
          3 |     35,745        12.02       37.60
          4 |     33,016        11.10       48.70
          5 |     52,285        17.59       66.29
          6 |     51,174        17.21       83.50
          7 |     49,065        16.50      100.00
------------+-----------------------------------
      Total |    297,326       100.00

38.
39. ********************************************************************
40. //recode helper time variables to -1 (na) if not helper per flag variable
41. **Note, these OP variables are backfilled from wave to wave
42. gen opishelper_allw=.
  (297,326 missing values generated)

43. forvalues w=1/$w{
    2. tab ishelper wave if wave==`w', missing //helper flag variable
    3. replace opishelper_allw=ishelper if wave==`w'
    4. }

                  |  Survey
  R1 BXHL1 HELPS  |   wave
             SP   |        1 |     Total
---------------+----------+----------
-1 Inapplicable |   26,500 |    26,500
         1 Yes  |   11,597 |    11,597
---------------+----------+----------
         Total  |   38,097 |    38,097

  (38,097 real changes made)

                  |  Survey
  R1 BXHL1 HELPS  |   wave
             SP   |        2 |     Total
---------------+----------+----------
-1 Inapplicable |   28,120 |    28,120
         1 Yes  |    9,824 |     9,824
---------------+----------+----------
         Total  |   37,944 |    37,944

  (37,944 real changes made)
```

```
                    |   Survey
R1 BXHL1 HELPS |    wave
           SP |         3 |     Total
---------------+----------+----------
-1 Inapplicable |    27,332 |    27,332
         1 Yes |     8,413 |     8,413
---------------+----------+----------
         Total |    35,745 |    35,745
```

(35,745 real changes made)

```
                    |   Survey
R1 BXHL1 HELPS |    wave
           SP |         4 |     Total
---------------+----------+----------
-1 Inapplicable |    25,931 |    25,931
         1 Yes |     7,085 |     7,085
---------------+----------+----------
         Total |    33,016 |    33,016
```

(33,016 real changes made)

```
                    |   Survey
R1 BXHL1 HELPS |    wave
           SP |         5 |     Total
---------------+----------+----------
-1 Inapplicable |    39,861 |    39,861
         1 Yes |    12,424 |    12,424
---------------+----------+----------
         Total |    52,285 |    52,285
```

(52,285 real changes made)

```
                    |   Survey
R1 BXHL1 HELPS |    wave
           SP |         6 |     Total
---------------+----------+----------
-1 Inapplicable |    40,006 |    40,006
         1 Yes |    11,168 |    11,168
---------------+----------+----------
         Total |    51,174 |    51,174
```

(51,174 real changes made)

```
                    |   Survey
R1 BXHL1 HELPS |    wave
           SP |         7 |     Total
---------------+----------+----------
-1 Inapplicable |    39,533 |    39,533
         1 Yes |     9,532 |     9,532
---------------+----------+----------
         Total |    49,065 |    49,065
```

(49,065 real changes made)

44. tab opishelper_allw wave, missing

```
opishelper |                      Survey wave
     _allw |       1           2           3           4           5 |      Total
-----------+-------------------------------------------------------+----------
        -1 |    26,500      28,120      27,332      25,931      39,861 |    227,283
         1 |    11,597       9,824       8,413       7,085      12,424 |     70,043
-----------+-------------------------------------------------------+----------
     Total |    38,097      37,944      35,745      33,016      52,285 |    297,326
```

```
  opishelper |       Survey wave
      _allw |        6           7 |     Total
-----------+----------------------+----------
        -1 |   40,006      39,533 |   227,283
         1 |   11,168       9,532 |    70,043
-----------+----------------------+----------
     Total |   51,174      49,065 |   297,326
```

```
45.
46. forvalues w=1/$w{
  2.          foreach v in helpsched numdayswk numdaysmn numhrsday {
  3.                  tab `v' if ishelper==-1 & wave==`w', missing
  4.                  replace `v'=-1 if ishelper==-1 & wave==`w'
  5.          }
  6. }
```

```
  R1 HL1 HELP IS |
   REG SCHEDULED |      Freq.      Percent        Cum.
----------------+-----------------------------------
          -8 DK |         12         0.05        0.05
          -7 RF |          3         0.01        0.06
-1 INAPPLICABLE |     26,481        99.93       99.98
       2 VARIED |          4         0.02      100.00
----------------+-----------------------------------
          Total |     26,500       100.00
(19 real changes made)
```

```
  R1 HL2 NUM DAYS |
     HELP PER WK |      Freq.      Percent        Cum.
----------------+-----------------------------------
-1 Inapplicable |     26,500       100.00      100.00
----------------+-----------------------------------
          Total |     26,500       100.00
(0 real changes made)
```

```
  R1 HL3 NUM DAYS |
    HELP PER MON |      Freq.      Percent        Cum.
----------------+-----------------------------------
          -8 DK |         14         0.05        0.05
          -7 RF |          3         0.01        0.06
-1 Inapplicable |     26,483        99.94      100.00
----------------+-----------------------------------
          Total |     26,500       100.00
(17 real changes made)
```

```
  R1 HL4 NUM HRS |
    HELP PER DAY |      Freq.      Percent        Cum.
----------------+-----------------------------------
          -8 DK |         14         0.05        0.05
          -7 RF |          3         0.01        0.06
-1 Inapplicable |     26,483        99.94      100.00
----------------+-----------------------------------
          Total |     26,500       100.00
(17 real changes made)
```

```
  R1 HL1 HELP IS |
   REG SCHEDULED |      Freq.      Percent        Cum.
----------------+-----------------------------------
-1 INAPPLICABLE |     28,120       100.00      100.00
----------------+-----------------------------------
          Total |     28,120       100.00
(0 real changes made)
```

```
  R1 HL2 NUM DAYS |
     HELP PER WK |      Freq.      Percent        Cum.
----------------+-----------------------------------
-1 Inapplicable |     28,120       100.00      100.00
----------------+-----------------------------------
          Total |     28,120       100.00
(0 real changes made)
```

```
R1 HL3 NUM DAYS |
    HELP PER MON |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     28,120       100.00       100.00
---------------+----------------------------------
         Total |     28,120       100.00
(0 real changes made)

 R1 HL4 NUM HRS |
    HELP PER DAY |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     28,120       100.00       100.00
---------------+----------------------------------
         Total |     28,120       100.00
(0 real changes made)

 R1 HL1 HELP IS |
   REG SCHEDULED |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 INAPPLICABLE |     27,329        99.99        99.99
       2 VARIED |          3         0.01       100.00
---------------+----------------------------------
         Total |     27,332       100.00
(3 real changes made)

R1 HL2 NUM DAYS |
    HELP PER WK |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     27,332       100.00       100.00
---------------+----------------------------------
         Total |     27,332       100.00
(0 real changes made)

R1 HL3 NUM DAYS |
   HELP PER MON |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     27,332       100.00       100.00
---------------+----------------------------------
         Total |     27,332       100.00
(0 real changes made)

 R1 HL4 NUM HRS |
   HELP PER DAY |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     27,332       100.00       100.00
---------------+----------------------------------
         Total |     27,332       100.00
(0 real changes made)

 R1 HL1 HELP IS |
  REG SCHEDULED |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 INAPPLICABLE |     25,931       100.00       100.00
---------------+----------------------------------
         Total |     25,931       100.00
(0 real changes made)

R1 HL2 NUM DAYS |
   HELP PER WK |      Freq.      Percent        Cum.
---------------+----------------------------------
-1 Inapplicable |     25,931       100.00       100.00
---------------+----------------------------------
         Total |     25,931       100.00
(0 real changes made)
```

```
R1 HL3 NUM DAYS |
    HELP PER MON |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     25,931        100.00      100.00
----------------+---------------------------------
          Total |     25,931        100.00
(0 real changes made)

 R1 HL4 NUM HRS |
    HELP PER DAY |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     25,931        100.00      100.00
----------------+---------------------------------
          Total |     25,931        100.00
(0 real changes made)

 R1 HL1 HELP IS |
   REG SCHEDULED |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 INAPPLICABLE |     39,861        100.00      100.00
----------------+---------------------------------
          Total |     39,861        100.00
(0 real changes made)

R1 HL2 NUM DAYS |
    HELP PER WK  |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     39,861        100.00      100.00
----------------+---------------------------------
          Total |     39,861        100.00
(0 real changes made)

R1 HL3 NUM DAYS |
    HELP PER MON |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     39,861        100.00      100.00
----------------+---------------------------------
          Total |     39,861        100.00
(0 real changes made)

 R1 HL4 NUM HRS |
    HELP PER DAY |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     39,861        100.00      100.00
----------------+---------------------------------
          Total |     39,861        100.00
(0 real changes made)

 R1 HL1 HELP IS |
   REG SCHEDULED |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 INAPPLICABLE |     40,006        100.00      100.00
----------------+---------------------------------
          Total |     40,006        100.00
(0 real changes made)

R1 HL2 NUM DAYS |
    HELP PER WK  |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     40,006        100.00      100.00
----------------+---------------------------------
          Total |     40,006        100.00
(0 real changes made)

R1 HL3 NUM DAYS |
    HELP PER MON |      Freq.       Percent        Cum.
----------------+---------------------------------
-1 Inapplicable |     40,006        100.00      100.00
----------------+---------------------------------
          Total |     40,006        100.00
(0 real changes made)
```

```
  R1 HL4 NUM HRS |
    HELP PER DAY |        Freq.       Percent        Cum.
---------------+-----------------------------------
-1 Inapplicable |       40,006       100.00       100.00
---------------+-----------------------------------
          Total |       40,006       100.00
 (0 real changes made)

  R1 HL1 HELP IS |
   REG SCHEDULED |        Freq.       Percent        Cum.
---------------+-----------------------------------
-1 INAPPLICABLE |       39,533       100.00       100.00
---------------+-----------------------------------
          Total |       39,533       100.00
 (0 real changes made)

 R1 HL2 NUM DAYS |
     HELP PER WK |        Freq.       Percent        Cum.
---------------+-----------------------------------
-1 Inapplicable |       39,533       100.00       100.00
---------------+-----------------------------------
          Total |       39,533       100.00
 (0 real changes made)

 R1 HL3 NUM DAYS |
    HELP PER MON |        Freq.       Percent        Cum.
---------------+-----------------------------------
-1 Inapplicable |       39,533       100.00       100.00
---------------+-----------------------------------
          Total |       39,533       100.00
 (0 real changes made)

  R1 HL4 NUM HRS |
    HELP PER DAY |        Freq.       Percent        Cum.
---------------+-----------------------------------
-1 Inapplicable |       39,533       100.00       100.00
---------------+-----------------------------------
          Total |       39,533       100.00
 (0 real changes made)

47.
48. //generate indicator of help with any task that has monthly reference period
49. gen month=.
  (297,326 missing values generated)

50. forvalues w=1/$w{
    2. replace month=0 if wave==`w'
    3. replace month=1 if (outhlp==1 | insdhlp==1 | bedhlp==1 | tkplhlp1==1 | ///
 >  tkplhlp2==1 | launhlp==1 | shophlp==1 | mealhlp==1 | bankhlp==1 | ///
 >  eathlp==1 | bathhlp==1 | toilhlp==1 | dreshlp==1 | medshlp==1) & wave==`w'
    4. }
  (38,097 real changes made)
  (11,077 real changes made)
  (37,944 real changes made)
  (10,419 real changes made)
  (35,745 real changes made)
  (9,099 real changes made)
  (33,016 real changes made)
  (7,623 real changes made)
  (52,285 real changes made)
  (12,432 real changes made)
  (51,174 real changes made)
  (11,682 real changes made)
  (49,065 real changes made)
  (10,060 real changes made)
```

51. tab month wave, missing

```
           |                      Survey wave
     month |         1          2          3          4          5 |     Total
-----------+-------------------------------------------------------+----------
         0 |    27,020     27,525     26,646     25,393     39,853 |   224,934
         1 |    11,077     10,419      9,099      7,623     12,432 |    72,392
-----------+-------------------------------------------------------+----------
     Total |    38,097     37,944     35,745     33,016     52,285 |   297,326


           |     Survey wave
     month |         6          7 |     Total
-----------+----------------------+----------
         0 |    39,492     39,005 |   224,934
         1 |    11,682     10,060 |    72,392
-----------+----------------------+----------
     Total |    51,174     49,065 |   297,326
```

52.
53.   //generate indicator of help with any task that has yearly reference period
54. gen year=.
   (297,326 missing values generated)

55. forvalues w=1/$w{
   2. replace year=0 if wave==`w'
   3. replace year=1 if (moneyhlp==1 | dochlp==1 | insurhlp==1) & wave==`w'
   4. tab year month if wave==`w', missing
   5. }
   (38,097 real changes made)
   (4,425 real changes made)

```
           |           month
      year |         0          1 |     Total
-----------+----------------------+----------
         0 |    26,152      7,520 |    33,672
         1 |       868      3,557 |     4,425
-----------+----------------------+----------
     Total |    27,020     11,077 |    38,097
```

   (37,944 real changes made)
   (3,489 real changes made)

```
           |           month
      year |         0          1 |     Total
-----------+----------------------+----------
         0 |    26,835      7,620 |    34,455
         1 |       690      2,799 |     3,489
-----------+----------------------+----------
     Total |    27,525     10,419 |    37,944
```

   (35,745 real changes made)
   (2,978 real changes made)

```
           |           month
      year |         0          1 |     Total
-----------+----------------------+----------
         0 |    25,983      6,784 |    32,767
         1 |       663      2,315 |     2,978
-----------+----------------------+----------
     Total |    26,646      9,099 |    35,745
```

   (33,016 real changes made)
   (2,689 real changes made)

```
          |        month
     year |        0          1 |    Total
----------+----------------------+----------
        0 |   24,744      5,583 |   30,327
        1 |      649      2,040 |    2,689
----------+----------------------+----------
    Total |   25,393      7,623 |   33,016

(52,285 real changes made)
(4,599 real changes made)

          |        month
     year |        0          1 |    Total
----------+----------------------+----------
        0 |   38,773      8,913 |   47,686
        1 |    1,080      3,519 |    4,599
----------+----------------------+----------
    Total |   39,853     12,432 |   52,285

(51,174 real changes made)
(4,127 real changes made)

          |        month
     year |        0          1 |    Total
----------+----------------------+----------
        0 |   38,483      8,564 |   47,047
        1 |    1,009      3,118 |    4,127
----------+----------------------+----------
    Total |   39,492     11,682 |   51,174

(49,065 real changes made)
(3,538 real changes made)

          |        month
     year |        0          1 |    Total
----------+----------------------+----------
        0 |   38,169      7,358 |   45,527
        1 |      836      2,702 |    3,538
----------+----------------------+----------
    Total |   39,005     10,060 |   49,065
```

56.
57.
58. //generate indicator of help in last year but not last month
59. gen yearnotmonth=0

60. replace yearnotmonth=1 if year==1 & month==0
    (5,795 real changes made)

61. tab yearnotmonth wave, missing

```
yearnotmon |                         Survey wave
       th |        1          2          3          4          5 |    Total
----------+-----------------------------------------------------------+----------
        0 |   37,229     37,254     35,082     32,367     51,205 |  291,531
        1 |      868        690        663        649      1,080 |    5,795
----------+-----------------------------------------------------------+----------
    Total |   38,097     37,944     35,745     33,016     52,285 |  297,326


yearnotmon |    Survey wave
       th |        6          7 |    Total
----------+----------------------+----------
        0 |   50,165     48,229 |  291,531
        1 |    1,009        836 |    5,795
----------+----------------------+----------
    Total |   51,174     49,065 |  297,326
```

```
62.  *********************************************************************
63.  //pull variable for sits in with doctor
64.  gen op_doc_help=.
     (297,326 missing values generated)

65.  forvalues w=1/$w {
       2.          replace op_doc_help=dochlp if wave==`w'
       3.  }
     (38,097 real changes made)
     (37,944 real changes made)
     (35,745 real changes made)
     (33,016 real changes made)
     (52,285 real changes made)
     (51,174 real changes made)
     (49,065 real changes made)

66.  *********************************************************************
67.  //generate SP received help with self care or mobility activity or
68.  //household activity for health and functioning reasons
69.  gen disab=.
     (297,326 missing values generated)

70.  forvalues w=1/$w{
       2.  replace disab=0 if wave==`w'
       3.  //self care or mobility, assumed to be for health reasons
71.  replace disab=1 if (douthelp==2 | dinsdhelp==2 | dbedhelp==2 | ///
   > deathelp==2 | dbathhelp==2 | dtoilhelp==2 | ddreshelp==2) & wave==`w'
       4.  //household activity for health or functioning reasons or in residential ca
   > re
72.  **note this is different from tech paper #7 because codes disab=1 if 1,3 or 4
73.  **not just if 3 or 4
74.  foreach v in dlaunreas dshopreas dmealreas dbankreas dmedsreas{
       5.  replace disab=1 if inlist(`v',1,3,4) & wave==`w'
       6.  }
       7.  }
     (38,097 real changes made)
     (9,055 real changes made)
     (1,494 real changes made)
     (1,737 real changes made)
     (376 real changes made)
     (335 real changes made)
     (211 real changes made)
     (37,944 real changes made)
     (10,999 real changes made)
     (1,524 real changes made)
     (1,870 real changes made)
     (347 real changes made)
     (388 real changes made)
     (280 real changes made)
     (35,745 real changes made)
     (11,252 real changes made)
     (1,182 real changes made)
     (1,866 real changes made)
     (392 real changes made)
     (370 real changes made)
     (205 real changes made)
     (33,016 real changes made)
     (10,392 real changes made)
     (1,215 real changes made)
     (1,557 real changes made)
     (423 real changes made)
     (383 real changes made)
     (266 real changes made)
     (52,285 real changes made)
     (14,693 real changes made)
     (1,735 real changes made)
     (2,443 real changes made)
     (716 real changes made)
     (497 real changes made)
     (337 real changes made)
     (51,174 real changes made)
     (15,688 real changes made)
```

```
  (1,912 real changes made)
  (2,230 real changes made)
  (751 real changes made)
  (537 real changes made)
  (272 real changes made)
  (49,065 real changes made)
  (15,536 real changes made)
  (1,761 real changes made)
  (2,301 real changes made)
  (556 real changes made)
  (455 real changes made)
  (248 real changes made)
```

75. tab disab wave, missing

			Survey wave			
disab	1	2	3	4	5	Total
0	24,889	22,536	20,478	18,780	31,864	176,539
1	13,208	15,408	15,267	14,236	20,421	120,787
Total	38,097	37,944	35,745	33,016	52,285	297,326

	Survey wave		
disab	6	7	Total
0	29,784	28,208	176,539
1	21,390	20,857	120,787
Total	51,174	49,065	297,326

76.
77. **
78. //flag variable for hours/month reported, valid
79. tab dhrsmth wave, missing //derived hours/month from HL section

R1 D HL2 HL3 HL4 HRS HELP MONTH	Survey wave				Total
	1	2	3	4	
-13	0	2,287	2,790	2,516	16,231
-12:valid skip/staff	0	1,264	1,024	998	9,399
-11:hours missing	253	220	324	237	1,886
-10:days missing	103	0	0	0	103
-9:days+hrs missing	729	372	558	547	4,199
-1:Inapp.	26,500	25,833	24,542	23,415	211,052
1	1,093	412	246	186	2,754
2	554	391	364	249	2,885
3	219	200	173	147	1,400
4	834	433	403	330	3,422
4.33	0	161	100	73	627
5	134	79	94	79	678
6	291	261	248	184	1,952
7	68	54	30	26	321
8	285	298	222	216	1,950
8.66	0	182	127	106	864
9	291	71	71	62	780
10	191	179	170	103	1,216
11	2	1	2	1	11
12	197	206	212	137	1,450
12.99	0	96	88	64	519
13	118	0	0	0	122
14	72	60	44	39	351
15	118	113	107	86	774
16	129	135	114	82	878
17	126	0	0	0	129
17.32	0	172	115	105	823
18	36	28	29	44	261
20	139	138	137	115	1,081
21	33	38	24	17	180
21.65	0	36	25	22	213

22	66	1	1	2	77
23	2	1	2	0	7
24	92	94	76	74	640
25	34	35	27	14	198
25.98	0	122	100	94	666
26	134	1	2	2	142
27	2	3	3	3	16
28	31	33	30	18	211
29	0	0	1	0	1
30	531	308	265	222	2,357
30.31	0	124	99	50	529
31	41	21	26	35	234
32	41	38	25	27	257
33	1	1	0	1	7
34	0	1	2	0	5
34.64	0	89	65	38	427
35	116	14	13	5	190
36	24	32	25	23	202
38.97	0	49	34	28	217
39	47	2	0	3	52
40	62	68	60	59	518
42	23	18	8	10	102
43	60	0	0	0	60
43.3	0	41	34	24	232
44	4	0	1	0	14
45	23	29	19	19	182
46	2	0	2	0	6
47.63	0	1	0	2	4
48	24	34	26	20	203
49	7	5	4	1	24
50	28	20	22	20	177
51	0	0	0	0	1
51.96	0	94	43	53	418
52	76	1	0	0	81
54	1	2	3	1	13
55	0	0	3	0	4
56	27	14	18	9	124
57	0	1	0	0	2
58	0	0	2	4	8
60	304	313	266	238	2,182
60.62	0	189	135	122	845
61	219	0	0	0	219
62	34	33	29	28	260
63	3	0	3	1	12
64	9	7	6	5	58
64.95	0	41	25	28	223
65	54	1	0	1	57
66	0	0	1	0	3
68	0	0	0	0	1
69	40	0	1	1	44
69.28	0	29	24	16	165
70	8	5	5	5	36
72	11	18	8	12	87
75	15	11	9	19	112
76	0	0	1	0	1
77	0	0	0	0	3
77.94	0	26	21	14	121
78	18	1	0	1	24
80	23	21	15	22	152
81	0	0	0	1	3
84	8	5	6	4	59
85	0	0	0	0	1
86.6	0	42	20	25	209
87	38	0	0	1	40
88	0	1	0	2	3
90	146	161	158	103	1,053
90.93	0	100	80	72	487
91	122	0	1	0	123
92	0	0	0	0	2
93	13	29	20	9	153
95	1	0	0	0	1
95.26	0	1	0	1	2

96	16	15	10	3	73
98	2	3	0	0	7
99.59	0	0	0	1	1
100	23	9	11	11	117
102	0	0	0	0	1
103.92	0	42	26	22	189
104	45	0	1	0	47
105	3	0	0	0	8
108	23	2	1	1	28
108.25	0	22	14	12	107
110	0	0	0	0	1
112	4	8	8	3	46
112.58	0	1	0	0	2
115	0	0	0	0	3
116	0	0	1	0	3
116.91	0	4	4	2	12
120	139	136	97	84	867
121	108	0	0	0	109
121.24	0	92	51	59	405
124	20	20	23	15	145
125	6	1	1	2	23
126	1	0	0	4	8
128	2	1	0	0	4
129.9	0	17	24	10	113
130	10	0	0	0	10
132	0	0	0	1	1
135	1	1	0	0	3
138	0	1	0	0	2
138.56	0	6	7	8	57
139	2	0	0	0	2
140	6	1	4	3	27
142.89	0	1	2	0	3
144	0	3	4	2	21
145	0	0	0	1	1
147.22	0	0	1	0	1
150	81	58	49	36	408
151.55	0	67	54	40	321
152	81	0	1	0	82
154	1	0	0	0	2
155	17	9	8	12	88
155.88	0	16	10	14	87
156	11	1	0	1	14
160	9	5	7	2	41
161	1	1	0	0	2
162	0	0	0	0	1
165	0	0	0	0	1
168	28	28	17	6	128
168.87	0	0	0	0	2
173	20	0	0	0	20
173.2	0	14	23	12	120
174	0	1	0	0	2
175	0	0	1	1	4
176	1	0	0	0	3
180	43	34	44	29	307
181.86	0	43	41	27	216
182	56	0	0	0	57
184	1	0	1	0	4
186	12	7	10	5	60
189	0	1	0	0	1
190.52	0	1	0	0	3
191	1	0	0	0	1
192	0	2	4	1	22
194.85	0	3	2	4	19
195	5	0	0	0	5
196	0	0	0	0	1
198	0	0	0	0	1
200	9	2	3	1	21
207.84	0	21	12	15	93
208	16	0	0	0	16
210	8	8	8	4	55
212	27	0	0	0	27
212.17	0	17	5	15	70

216	1	1	0	0	7
216.5	0	5	4	4	28
217	4	3	1	1	17
220	1	1	0	0	2
220.83	0	0	0	0	1
224	2	0	1	0	6
225	1	1	0	0	5
231	0	0	0	0	1
233.82	0	1	2	0	3
234	2	0	0	0	2
238.15	0	0	0	0	2
240	73	62	56	51	457
242	101	0	0	0	101
242.48	0	88	48	44	351
248	18	13	9	8	74
250	1	1	0	1	4
252	3	0	0	0	3
253	0	0	0	0	1
256	0	0	0	0	1
259.8	0	3	5	6	41
260	7	0	0	0	8
264	0	1	1	0	2
270	2	6	2	2	27
272.79	0	6	3	4	29
273	7	1	0	0	8
276	0	0	0	0	1
277.12	0	0	1	1	2
279	1	0	0	0	3
280	0	0	1	1	2
281.45	0	0	0	0	2
286	1	0	0	0	1
288	1	2	3	1	13
299	1	0	0	0	1
300	23	16	9	8	130
303	23	0	0	0	23
303.1	0	28	16	6	119
310	5	2	4	1	24
311.76	0	30	28	17	113
312	18	0	0	0	18
324	0	0	1	0	3
324.75	0	0	0	0	1
330	1	0	1	2	10
333	2	0	0	0	2
333.41	0	0	2	0	3
336	1	1	3	4	15
337.74	0	0	0	0	2
338	1	0	0	0	1
341	0	0	1	0	1
346.4	0	2	0	0	4
348	0	0	1	0	2
360	33	30	22	18	201
363.72	0	36	31	15	179
364	49	0	0	0	49
372	4	4	4	7	44
375	3	0	0	0	3
381.04	0	1	0	0	2
384	0	2	0	0	4
389.7	0	1	0	0	2
390	1	1	0	0	3
394	1	0	0	0	1
394.03	0	1	0	1	4
398.36	0	0	0	0	1
400	0	0	0	2	3
403	0	1	0	1	4
415.68	0	8	4	1	25
416	3	0	0	0	3
420	1	0	1	0	9
424	7	0	0	0	7
424.34	0	0	5	3	24
425	1	0	0	0	1
432	1	0	0	0	1
433	3	0	0	0	4

```
               434 |          1           1           0           0 |          3
               450 |          4           3           0           3 |         23
            454.65 |          0           3           1           0 |         15
               455 |          2           0           0           0 |          2
               456 |          0           0           0           0 |          2
               465 |          1           0           1           0 |          6
            467.64 |          0           0           0           0 |          2
             476.3 |          0           0           0           0 |          1
               480 |          8           3          10           7 |         59
               484 |          0           0           0           0 |          1
            484.96 |          0           7          12           5 |         51
               485 |         22           0           0           0 |         22
               496 |          2           1           2           0 |         10
               504 |          1           0           1           1 |          4
               510 |          0           0           0           0 |          1
               515 |          1           0           0           0 |          1
            515.27 |          0           0           2           0 |          5
             519.6 |          0           3           6           7 |         33
               520 |          6           0           0           0 |          6
               527 |          2           0           0           0 |          3
               540 |          3           1           1           1 |         13
            545.58 |          0           5           3           5 |         19
               546 |          4           0           0           0 |          4
               552 |          0           0           2           0 |          2
               558 |          2           3           1           0 |         13
               570 |          0           0           0           0 |          1
            575.89 |          0           0           1           0 |          2
               576 |          2           0           0           0 |          2
               600 |          3           2           2           4 |         21
             606.2 |          0           8           1           0 |         20
               620 |          0           0           1           1 |          5
            623.52 |          0           3           0           3 |          9
               624 |          2           0           0           1 |          3
               630 |          0           2           1           1 |          4
            636.51 |          0           2           1           0 |          4
               648 |          0           0           0           0 |          1
               651 |          0           0           0           0 |          1
               660 |          1           0           2           0 |          3
            666.82 |          0           0           2           0 |          8
               667 |          1           0           0           0 |          1
               672 |          0           0           1           0 |          3
               690 |          1           0           1           0 |          5
               697 |          1           0           0           0 |          1
            697.13 |          0           4           0           0 |          5
               713 |          1           0           0           0 |          1
               720 |         62          83          73          61 |        447
               727 |        301           0           0           0 |        301
            727.44 |          0         200          98          76 |        726
               744 |         30           9          10           1 |         69
Not codeable, <1 hour |      1,306         466         391         382 |      4,519
----------------------+--------------------------------------------------+----------
             Total |     38,097      37,944      35,745      33,016 |    297,326


R1 D HL2 HL3 HL4 HRS |              Survey wave
         HELP MONTH |          5           6           7 |      Total
---------------------+------------------------------------+----------
               -13 |      2,118       3,143       3,377 |     16,231
 -12:valid skip/staff |      2,374       1,878       1,861 |      9,399
   -11:hours missing |        333         292         227 |      1,886
    -10:days missing |          0           0           0 |        103
 -9:days+hrs missing |      1,007         543         443 |      4,199
         -1:Inapp. |     37,743      36,863      36,156 |    211,052
                 1 |        335         244         238 |      2,754
                 2 |        465         467         395 |      2,885
                 3 |        222         241         198 |      1,400
                 4 |        505         494         423 |      3,422
              4.33 |        102         106          85 |        627
                 5 |        105         103          84 |        678
                 6 |        343         322         303 |      1,952
                 7 |         63          44          36 |        321
                 8 |        336         313         280 |      1,950
```

8.66 |	151	180	118 |	864
9 |	90	94	101 |	780
10 |	196	224	153 |	1,216
11 |	3	1	1 |	11
12 |	236	254	208 |	1,450
12.99 |	79	107	85 |	519
13 |	2	2	0 |	122
14 |	57	42	37 |	351
15 |	136	143	71 |	774
16 |	134	153	131 |	878
17 |	3	0	0 |	129
17.32 |	158	150	123 |	823
18 |	38	48	38 |	261
20 |	194	194	164 |	1,081
21 |	28	25	15 |	180
21.65 |	51	47	32 |	213
22 |	2	3	2 |	77
23 |	0	1	1 |	7
24 |	103	125	76 |	640
25 |	34	31	23 |	198
25.98 |	125	128	97 |	666
26 |	1	2	0 |	142
27 |	0	5	0 |	16
28 |	41	33	25 |	211
29 |	0	0	0 |	1
30 |	338	396	297 |	2,357
30.31 |	94	98	64 |	529
31 |	42	29	40 |	234
32 |	43	49	34 |	257
33 |	0	2	2 |	7
34 |	0	0	2 |	5
34.64 |	76	90	69 |	427
35 |	19	13	10 |	190
36 |	36	29	33 |	202
38.97 |	35	39	32 |	217
39 |	0	0	0 |	52
40 |	97	103	69 |	518
42 |	15	19	9 |	102
43 |	0	0	0 |	60
43.3 |	56	44	33 |	232
44 |	2	6	1 |	14
45 |	32	24	36 |	182
46 |	0	0	2 |	6
47.63 |	0	1	0 |	4
48 |	29	34	36 |	203
49 |	3	2	2 |	24
50 |	32	29	26 |	177
51 |	0	0	1 |	1
51.96 |	76	87	65 |	418
52 |	3	0	1 |	81
54 |	2	3	1 |	13
55 |	1	0	0 |	4
56 |	21	21	14 |	124
57 |	0	1	0 |	2
58 |	1	0	1 |	8
60 |	364	375	322 |	2,182
60.62 |	150	143	106 |	845
61 |	0	0	0 |	219
62 |	48	43	45 |	260
63 |	0	3	2 |	12
64 |	13	7	11 |	58
64.95 |	58	42	29 |	223
65 |	0	0	1 |	57
66 |	1	0	1 |	3
68 |	1	0	0 |	1
69 |	1	1	0 |	44
69.28 |	31	37	28 |	165
70 |	7	3	3 |	36
72 |	11	11	16 |	87
75 |	22	25	11 |	112
76 |	0	0	0 |	1
77 |	1	2	0 |	3

```
 77.94 |        28        18        14 |         121
    78 |         1         2         1 |          24
    80 |        26        25        20 |         152
    81 |         1         1         0 |           3
    84 |        22        11         3 |          59
    85 |         1         0         0 |           1
  86.6 |        39        49        34 |         209
    87 |         0         0         1 |          40
    88 |         0         0         0 |           3
    90 |       171       183       131 |       1,053
 90.93 |        90        79        66 |         487
    91 |         0         0         0 |         123
    92 |         0         2         0 |           2
    93 |        32        24        26 |         153
    95 |         0         0         0 |           1
 95.26 |         0         0         0 |           2
    96 |         8        14         7 |          73
    98 |         0         1         1 |           7
 99.59 |         0         0         0 |           1
   100 |        19        24        20 |         117
   102 |         1         0         0 |           1
103.92 |        37        35        27 |         189
   104 |         0         0         1 |          47
   105 |         1         4         0 |           8
   108 |         0         0         1 |          28
108.25 |        26        21        12 |         107
   110 |         1         0         0 |           1
   112 |        13         6         4 |          46
112.58 |         0         1         0 |           2
   115 |         2         0         1 |           3
   116 |         0         2         0 |           3
116.91 |         1         1         0 |          12
   120 |       153       148       110 |         867
   121 |         0         1         0 |         109
121.24 |        81        72        50 |         405
   124 |        17        19        31 |         145
   125 |         4         4         5 |          23
   126 |         2         1         0 |           8
   128 |         0         1         0 |           4
 129.9 |        18        23        21 |         113
   130 |         0         0         0 |          10
   132 |         0         0         0 |           1
   135 |         1         0         0 |           3
   138 |         1         0         0 |           2
138.56 |        12        15         9 |          57
   139 |         0         0         0 |           2
   140 |         4         6         3 |          27
142.89 |         0         0         0 |           3
   144 |         5         4         3 |          21
   145 |         0         0         0 |           1
147.22 |         0         0         0 |           1
   150 |        80        53        51 |         408
151.55 |        55        63        42 |         321
   152 |         0         0         0 |          82
   154 |         0         0         1 |           2
   155 |        16        11        15 |          88
155.88 |        20        16        11 |          87
   156 |         1         0         0 |          14
   160 |         7         5         6 |          41
   161 |         0         0         0 |           2
   162 |         0         0         1 |           1
   165 |         0         0         1 |           1
   168 |        17        18        14 |         128
168.87 |         2         0         0 |           2
   173 |         0         0         0 |          20
 173.2 |        27        26        18 |         120
   174 |         0         1         0 |           2
   175 |         1         1         0 |           4
   176 |         1         1         0 |           3
   180 |        51        45        61 |         307
181.86 |        33        35        37 |         216
   182 |         0         1         0 |          57
```

```
  184 |            1            1            0 |            4
  186 |           17            3            6 |           60
  189 |            0            0            0 |            1
190.52 |            1            1            0 |            3
  191 |            0            0            0 |            1
  192 |            5            5            5 |           22
194.85 |            6            2            2 |           19
  195 |            0            0            0 |            5
  196 |            1            0            0 |            1
  198 |            0            0            1 |            1
  200 |            0            3            3 |           21
207.84 |           19           14           12 |           93
  208 |            0            0            0 |           16
  210 |           19            4            4 |           55
  212 |            0            0            0 |           27
212.17 |           11            7           15 |           70
  216 |            1            1            3 |            7
 216.5 |            3            2           10 |           28
  217 |            2            4            2 |           17
  220 |            0            0            0 |            2
220.83 |            0            0            1 |            1
  224 |            2            1            0 |            6
  225 |            1            1            1 |            5
  231 |            0            0            1 |            1
233.82 |            0            0            0 |            3
  234 |            0            0            0 |            2
238.15 |            1            1            0 |            2
  240 |           82           60           73 |          457
  242 |            0            0            0 |          101
242.48 |           63           58           50 |          351
  248 |            9            5           12 |           74
  250 |            0            0            1 |            4
  252 |            0            0            0 |            3
  253 |            1            0            0 |            1
  256 |            1            0            0 |            1
 259.8 |           14            7            6 |           41
  260 |            0            1            0 |            8
  264 |            0            0            0 |            2
  270 |            3            8            4 |           27
272.79 |            6            7            3 |           29
  273 |            0            0            0 |            8
  276 |            1            0            0 |            1
277.12 |            0            0            0 |            2
  279 |            1            0            1 |            3
  280 |            0            0            0 |            2
281.45 |            1            1            0 |            2
  286 |            0            0            0 |            1
  288 |            3            0            3 |           13
  299 |            0            0            0 |            1
  300 |           22           29           23 |          130
  303 |            0            0            0 |           23
 303.1 |           20           29           20 |          119
  310 |            4            5            3 |           24
311.76 |           17           11           10 |          113
  312 |            0            0            0 |           18
  324 |            0            0            2 |            3
324.75 |            0            1            0 |            1
  330 |            1            3            2 |           10
  333 |            0            0            0 |            2
333.41 |            0            1            0 |            3
  336 |            2            1            3 |           15
337.74 |            1            1            0 |            2
  338 |            0            0            0 |            1
  341 |            0            0            0 |            1
 346.4 |            0            1            1 |            4
  348 |            0            0            1 |            2
  360 |           37           33           28 |          201
363.72 |           43           24           30 |          179
  364 |            0            0            0 |           49
  372 |            7            6           12 |           44
  375 |            0            0            0 |            3
381.04 |            1            0            0 |            2
```

384 |	1	0	1 |	4
389.7 |	1	0	0 |	2
390 |	0	0	1 |	3
394 |	0	0	0 |	1
394.03 |	1	0	1 |	4
398.36 |	0	1	0 |	1
400 |	0	1	0 |	3
403 |	0	0	2 |	4
415.68 |	4	6	2 |	25
416 |	0	0	0 |	3
420 |	3	1	3 |	9
424 |	0	0	0 |	7
424.34 |	9	7	0 |	24
425 |	0	0	0 |	1
432 |	0	0	0 |	1
433 |	0	0	1 |	4
434 |	0	1	0 |	3
450 |	5	5	3 |	23
454.65 |	4	3	4 |	15
455 |	0	0	0 |	2
456 |	0	2	0 |	2
465 |	2	1	1 |	6
467.64 |	0	0	2 |	2
476.3 |	0	1	0 |	1
480 |	12	14	5 |	59
484 |	1	0	0 |	1
484.96 |	9	6	12 |	51
485 |	0	0	0 |	22
496 |	2	3	0 |	10
504 |	1	0	0 |	4
510 |	0	1	0 |	1
515 |	0	0	0 |	1
515.27 |	1	1	1 |	5
519.6 |	6	3	8 |	33
520 |	0	0	0 |	6
527 |	0	0	1 |	3
540 |	2	2	3 |	13
545.58 |	2	1	3 |	19
546 |	0	0	0 |	4
552 |	0	0	0 |	2
558 |	3	2	2 |	13
570 |	0	1	0 |	1
575.89 |	1	0	0 |	2
576 |	0	0	0 |	2
600 |	4	4	2 |	21
606.2 |	3	6	2 |	20
620 |	0	2	1 |	5
623.52 |	0	1	2 |	9
624 |	0	0	0 |	3
630 |	0	0	0 |	4
636.51 |	0	0	1 |	4
648 |	0	1	0 |	1
651 |	0	1	0 |	1
660 |	0	0	0 |	3
666.82 |	3	0	3 |	8
667 |	0	0	0 |	1
672 |	0	0	2 |	3
690 |	1	2	0 |	5
697 |	0	0	0 |	1
697.13 |	1	0	0 |	5
713 |	0	0	0 |	1
720 |	67	53	48 |	447
727 |	0	0	0 |	301
727.44 |	155	111	86 |	726
744 |	13	5	1 |	69
Not codeable, <1 hour |	735	654	585 |	4,519
Total |	52,285	51,174	49,065 |	297,326

```
80. gen op_ind_hrsmth=.
    (297,326 missing values generated)

81. forvalues w=1/$w{
      2. replace op_ind_hrsmth=dhrsmth if wave==`w'
      3. }
    (38,097 real changes made)
    (37,944 real changes made)
    (35,745 real changes made)
    (33,016 real changes made)
    (52,285 real changes made)
    (51,174 real changes made)
    (49,065 real changes made)

82. recode op_ind_hrsmth (1/750=1)
    (op_ind_hrsmth: 47183 changes made)

83.
84. la def hrsmth -13"-13:Deceased" -12"Zero days/wk" -11"-11:hours missing" ///
    >  -10"-10:days missing" -9 "-9:days+hours mssing" -1"-1:NA" 1"1:Valid" 9999"999
    > 9:<1hr/day",replace

85. la val op_ind_hrsmth hrsmth

86. tab op_ind_hrsmth wave, missing
```

		Survey wave			
op_ind_hrsmth	1	2	3	4	Total
-13:Deceased	0	2,287	2,790	2,516	16,231
Zero days/wk	0	1,264	1,024	998	9,399
-11:hours missing	253	220	324	237	1,886
-10:days missing	103	0	0	0	103
-9:days+hours mssing	729	372	558	547	4,199
-1:NA	26,500	25,833	24,542	23,415	211,052
1:Valid	9,206	7,502	6,116	4,921	49,937
9999:<1hr/day	1,306	466	391	382	4,519
Total	38,097	37,944	35,745	33,016	297,326

		Survey wave		
op_ind_hrsmth	5	6	7	Total
-13:Deceased	2,118	3,143	3,377	16,231
Zero days/wk	2,374	1,878	1,861	9,399
-11:hours missing	333	292	227	1,886
-10:days missing	0	0	0	103
-9:days+hours mssing	1,007	543	443	4,199
-1:NA	37,743	36,863	36,156	211,052
1:Valid	7,975	7,801	6,416	49,937
9999:<1hr/day	735	654	585	4,519
Total	52,285	51,174	49,065	297,326

```
87.
88. //generate variable indicating one day per month or one day per week
89. gen justone=.
    (297,326 missing values generated)
```

```
90. forvalues w=1/$w{
   2. replace justone=0 if wave==`w'
   3. replace justone=1 if (numdayswk==1 | numdaysmn==1) & wave==`w'
   4. }
 (38,097 real changes made)
 (3,160 real changes made)
 (37,944 real changes made)
 (1,386 real changes made)
 (35,745 real changes made)
 (1,062 real changes made)
 (33,016 real changes made)
 (847 real changes made)
 (52,285 real changes made)
 (1,387 real changes made)
 (51,174 real changes made)
 (1,305 real changes made)
 (49,065 real changes made)
 (1,096 real changes made)

91. tab justone op_ind_hrsmth, missing

           |                      op_ind_hrsmth
   justone | -13:Decea  Zero days  -11:hours  -10:days   -9:days+h |     Total
 ----------+-------------------------------------------------------+----------
         0 |    16,231      9,398      1,682        103      4,198 |   287,083
         1 |         0          1        204          0          1 |    10,243
 ----------+-------------------------------------------------------+----------
     Total |    16,231      9,399      1,886        103      4,199 |   297,326


           |        op_ind_hrsmth
   justone |     -1:NA    1:Valid  9999:<1hr |     Total
 ----------+---------------------------------+----------
         0 |    211,052     41,740      2,679 |   287,083
         1 |          0      8,197      1,840 |    10,243
 ----------+---------------------------------+----------
     Total |    211,052     49,937      4,519 |   297,326


92.
93. //recode help flags to 0=(no or inapplicable) or 1=yes
94. forvalues w=1/$w{
   2. foreach v in outhlp insdhlp bedhlp tkplhlp1 tkplhlp2 launhlp shophlp mealhl
 > p ///
 > bankhlp eathlp bathhlp toilhlp dreshlp medshlp moneyhlp dochlp insurhlp{
   3. tab `v' if wave==`w', missing
   4. replace `v'=0 if `v'==-1 & wave==`w'
   5. }
   6. }

  R1 MO6A HELPS |
  SP GO OUTSIDE |      Freq.     Percent        Cum.
 ---------------+---------------------------------
 -1 Inapplicable |     36,363       95.45       95.45
          1 Yes |      1,734        4.55      100.00
 ---------------+---------------------------------
          Total |     38,097      100.00
 (36,363 real changes made)

  R1 MO19A HELPS |
  SP INSIDE HOUSE |    Freq.     Percent        Cum.
 ---------------+---------------------------------
 -1 Inapplicable |     36,951       96.99       96.99
          1 Yes |      1,146        3.01      100.00
 ---------------+---------------------------------
          Total |     38,097      100.00
 (36,951 real changes made)
```

```
R1 MO25A HELPS |
  SP OUT OF BED |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     37,372        98.10        98.10
        1 Yes |        725         1.90       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(37,372 real changes made)
```

```
R1 DT5A TAKES |
 SP PLACES MOST |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     34,277        89.97        89.97
        1 Yes |      3,820        10.03       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(34,277 real changes made)
```

```
R1 DT7A TAKES |
 SP PLACES OTH |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     36,423        95.61        95.61
        1 Yes |      1,674         4.39       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(36,423 real changes made)
```

```
R1 HA3A HELPS |
SP WITH LAUNDRY |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     34,248        89.90        89.90
        1 Yes |      3,849        10.10       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(34,248 real changes made)
```

```
R1 HA25A HELPS |
      SP WITH |
     SHOPPING |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     32,691        85.81        85.81
        1 Yes |      5,406        14.19       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(32,691 real changes made)
```

```
R1 HA32A HELPS |
 SP WITH MEALS |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     33,240        87.25        87.25
        1 Yes |      4,857        12.75       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(33,240 real changes made)
```

```
R1 HA42A HELPS |
SP WITH BANKING |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     34,595        90.81        90.81
        1 Yes |      3,502         9.19       100.00
---------------+-----------------------------------------
        Total |     38,097       100.00
(34,595 real changes made)
```

```
  R1 SC3A HELPS |
SP WITH EATING |        Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       37,466         98.34         98.34
        1 Yes  |          631          1.66        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(37,466 real changes made)


  R1 SC11A HELPS |
SP WITH BATHING |       Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       37,131         97.46         97.46
        1 Yes  |          966          2.54        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(37,131 real changes made)


  R1 SC17A HELPS |
        SP WITH |
       TOILETING |      Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       37,601         98.70         98.70
        1 Yes  |          496          1.30        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(37,601 real changes made)


  R1 SC23A HELPS |
        SP WITH |
       DRESSING |       Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       36,877         96.80         96.80
        1 Yes  |        1,220          3.20        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(36,877 real changes made)


  R1 MC5A HELPS |
        SP WITH |
       MEDICINES |      Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       36,515         95.85         95.85
        1 Yes  |        1,582          4.15        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(36,515 real changes made)


  R1 HA52A HELPS |
 SP WITH MONEY |        Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       36,906         96.87         96.87
        1 Yes  |        1,191          3.13        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(36,906 real changes made)


  R1 MC17A SITS |
 IN W SP AT DRS |       Freq.        Percent         Cum.
---------------+---------------------------------------
-1 Inapplicable |       34,631         90.90         90.90
        1 Yes  |        3,466          9.10        100.00
---------------+---------------------------------------
         Total |       38,097        100.00
(34,631 real changes made)
```

```
    R1 MC22A HELPS |
      WITH INSUR |
           DECIS |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    37,690         98.93        98.93
          1 Yes |       407          1.07       100.00
---------------+---------------------------------------
          Total |    38,097        100.00
(37,690 real changes made)

    R1 MO6A HELPS |
    SP GO OUTSIDE |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    36,119         95.19        95.19
          1 Yes |     1,825          4.81       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(36,119 real changes made)

   R1 MO19A HELPS |
 SP INSIDE HOUSE |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    36,536         96.29        96.29
          1 Yes |     1,408          3.71       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(36,536 real changes made)

   R1 MO25A HELPS |
   SP OUT OF BED |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    36,942         97.36        97.36
          1 Yes |     1,002          2.64       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(36,942 real changes made)

    R1 DT5A TAKES |
 SP PLACES MOST |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    34,708         91.47        91.47
          1 Yes |     3,236          8.53       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(34,708 real changes made)

    R1 DT7A TAKES |
  SP PLACES OTH |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    36,459         96.09        96.09
          1 Yes |     1,485          3.91       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(36,459 real changes made)

    R1 HA3A HELPS |
 SP WITH LAUNDRY |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    34,791         91.69        91.69
          1 Yes |     3,153          8.31       100.00
---------------+---------------------------------------
          Total |    37,944        100.00
(34,791 real changes made)
```

```
R1 HA25A HELPS |
      SP WITH |
      SHOPPING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     33,637       88.65        88.65
         1 Yes |      4,307       11.35       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(33,637 real changes made)

R1 HA32A HELPS |
SP WITH MEALS  |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     33,840       89.18        89.18
         1 Yes |      4,104       10.82       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(33,840 real changes made)

R1 HA42A HELPS |
SP WITH BANKING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     35,151       92.64        92.64
         1 Yes |      2,793        7.36       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(35,151 real changes made)

 R1 SC3A HELPS |
SP WITH EATING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     36,948       97.38        97.38
         1 Yes |        996        2.62       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(36,948 real changes made)

R1 SC11A HELPS |
SP WITH BATHING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     36,479       96.14        96.14
         1 Yes |      1,465        3.86       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(36,479 real changes made)

R1 SC17A HELPS |
      SP WITH |
     TOILETING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     37,086       97.74        97.74
         1 Yes |        858        2.26       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(37,086 real changes made)

R1 SC23A HELPS |
      SP WITH |
      DRESSING |      Freq.      Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |     36,411       95.96        95.96
         1 Yes |      1,533        4.04       100.00
---------------+---------------------------------
         Total |     37,944      100.00
(36,411 real changes made)
```

```
   R1 MC5A HELPS |
       SP WITH   |
      MEDICINES  |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    36,629         96.53        96.53
         1 Yes |     1,315          3.47        100.00
---------------+---------------------------------------
         Total |    37,944        100.00
(36,629 real changes made)

   R1 HA52A HELPS |
   SP WITH MONEY |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    37,034         97.60        97.60
         1 Yes |       910          2.40        100.00
---------------+---------------------------------------
         Total |    37,944        100.00
(37,034 real changes made)

   R1 MC17A SITS |
   IN W SP AT DRS |    Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    35,204         92.78        92.78
         1 Yes |     2,740          7.22        100.00
---------------+---------------------------------------
         Total |    37,944        100.00
(35,204 real changes made)

   R1 MC22A HELPS |
      WITH INSUR  |
          DECIS  |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    37,670         99.28        99.28
         1 Yes |       274          0.72        100.00
---------------+---------------------------------------
         Total |    37,944        100.00
(37,670 real changes made)

   R1 MO6A HELPS |
  SP GO OUTSIDE  |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    34,099         95.40        95.40
         1 Yes |     1,646          4.60        100.00
---------------+---------------------------------------
         Total |    35,745        100.00
(34,099 real changes made)

   R1 MO19A HELPS |
SP INSIDE HOUSE |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    34,468         96.43        96.43
         1 Yes |     1,277          3.57        100.00
---------------+---------------------------------------
         Total |    35,745        100.00
(34,468 real changes made)

   R1 MO25A HELPS |
   SP OUT OF BED |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    34,758         97.24        97.24
         1 Yes |       987          2.76        100.00
---------------+---------------------------------------
         Total |    35,745        100.00
(34,758 real changes made)
```

```
  R1 DT5A TAKES |
SP PLACES MOST |       Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     33,064         92.50         92.50
          1 Yes |      2,681          7.50        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(33,064 real changes made)
```

```
  R1 DT7A TAKES |
 SP PLACES OTH |       Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     34,376         96.17         96.17
          1 Yes |      1,369          3.83        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(34,376 real changes made)
```

```
  R1 HA3A HELPS |
SP WITH LAUNDRY |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     33,148         92.73         92.73
          1 Yes |      2,597          7.27        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(33,148 real changes made)
```

```
  R1 HA25A HELPS |
        SP WITH |
       SHOPPING |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     32,111         89.83         89.83
          1 Yes |      3,634         10.17        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(32,111 real changes made)
```

```
  R1 HA32A HELPS |
 SP WITH MEALS |       Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     32,304         90.37         90.37
          1 Yes |      3,441          9.63        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(32,304 real changes made)
```

```
  R1 HA42A HELPS |
SP WITH BANKING |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     33,433         93.53         93.53
          1 Yes |      2,312          6.47        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(33,433 real changes made)
```

```
  R1 SC3A HELPS |
 SP WITH EATING |      Freq.       Percent        Cum.
---------------+-----------------------------------------
-1 Inapplicable |     34,725         97.15         97.15
          1 Yes |      1,020          2.85        100.00
---------------+-----------------------------------------
          Total |     35,745        100.00
(34,725 real changes made)
```

```
R1 SC11A HELPS |
SP WITH BATHING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      34,399         96.23       96.23
          1 Yes |       1,346          3.77      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(34,399 real changes made)


R1 SC17A HELPS |
       SP WITH |
      TOILETING |      Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      34,880         97.58       97.58
          1 Yes |         865          2.42      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(34,880 real changes made)


R1 SC23A HELPS |
       SP WITH |
      DRESSING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      34,251         95.82       95.82
          1 Yes |       1,494          4.18      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(34,251 real changes made)


 R1 MC5A HELPS |
       SP WITH |
      MEDICINES |      Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      34,644         96.92       96.92
          1 Yes |       1,101          3.08      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(34,644 real changes made)


R1 HA52A HELPS |
 SP WITH MONEY |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      34,973         97.84       97.84
          1 Yes |         772          2.16      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(34,973 real changes made)


  R1 MC17A SITS |
 IN W SP AT DRS |      Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      33,422         93.50       93.50
          1 Yes |       2,323          6.50      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(33,422 real changes made)


 R1 MC22A HELPS |
    WITH INSUR |
         DECIS |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      35,516         99.36       99.36
          1 Yes |         229          0.64      100.00
---------------+---------------------------------------
         Total |      35,745        100.00
(35,516 real changes made)
```

```
   R1 MO6A HELPS |
 SP GO OUTSIDE |        Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      31,583         95.66        95.66
         1 Yes |       1,433          4.34       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(31,583 real changes made)
```

```
  R1 MO19A HELPS |
 SP INSIDE HOUSE |      Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      31,894         96.60        96.60
         1 Yes |       1,122          3.40       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(31,894 real changes made)
```

```
  R1 MO25A HELPS |
  SP OUT OF BED |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      32,139         97.34        97.34
         1 Yes |         877          2.66       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(32,139 real changes made)
```

```
   R1 DT5A TAKES |
 SP PLACES MOST |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      30,769         93.19        93.19
         1 Yes |       2,247          6.81       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(30,769 real changes made)
```

```
   R1 DT7A TAKES |
  SP PLACES OTH |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      31,867         96.52        96.52
         1 Yes |       1,149          3.48       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(31,867 real changes made)
```

```
   R1 HA3A HELPS |
 SP WITH LAUNDRY |     Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      30,847         93.43        93.43
         1 Yes |       2,169          6.57       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(30,847 real changes made)
```

```
  R1 HA25A HELPS |
       SP WITH |
      SHOPPING |         Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      30,036         90.97        90.97
         1 Yes |       2,980          9.03       100.00
---------------+---------------------------------------
         Total |      33,016        100.00
(30,036 real changes made)
```

```
  R1 HA32A HELPS |
    SP WITH MEALS |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     30,131       91.26       91.26
          1 Yes |      2,885        8.74      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(30,131 real changes made)
```

```
  R1 HA42A HELPS |
SP WITH BANKING |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     31,080       94.14       94.14
          1 Yes |      1,936        5.86      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(31,080 real changes made)
```

```
   R1 SC3A HELPS |
  SP WITH EATING |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     32,104       97.24       97.24
          1 Yes |        912        2.76      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(32,104 real changes made)
```

```
  R1 SC11A HELPS |
SP WITH BATHING |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     31,910       96.65       96.65
          1 Yes |      1,106        3.35      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(31,910 real changes made)
```

```
  R1 SC17A HELPS |
         SP WITH |
       TOILETING |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     32,329       97.92       97.92
          1 Yes |        687        2.08      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(32,329 real changes made)
```

```
  R1 SC23A HELPS |
         SP WITH |
        DRESSING |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     31,704       96.03       96.03
          1 Yes |      1,312        3.97      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(31,704 real changes made)
```

```
   R1 MC5A HELPS |
         SP WITH |
       MEDICINES |      Freq.      Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |     32,033       97.02       97.02
          1 Yes |        983        2.98      100.00
---------------+---------------------------------
          Total |     33,016      100.00
(32,033 real changes made)
```

```
R1 HA52A HELPS |
  SP WITH MONEY |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    32,285        97.79       97.79
         1 Yes |       731         2.21      100.00
---------------+----------------------------------
         Total |    33,016       100.00
(32,285 real changes made)


  R1 MC17A SITS |
 IN W SP AT DRS |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    31,006        93.91       93.91
         1 Yes |     2,010         6.09      100.00
---------------+----------------------------------
         Total |    33,016       100.00
(31,006 real changes made)


 R1 MC22A HELPS |
    WITH INSUR  |
         DECIS  |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    32,766        99.24       99.24
         1 Yes |       250         0.76      100.00
---------------+----------------------------------
         Total |    33,016       100.00
(32,766 real changes made)


  R1 MO6A HELPS |
  SP GO OUTSIDE |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    50,225        96.06       96.06
         1 Yes |     2,060         3.94      100.00
---------------+----------------------------------
         Total |    52,285       100.00
(50,225 real changes made)


 R1 MO19A HELPS |
SP INSIDE HOUSE |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    50,773        97.11       97.11
         1 Yes |     1,512         2.89      100.00
---------------+----------------------------------
         Total |    52,285       100.00
(50,773 real changes made)


 R1 MO25A HELPS |
  SP OUT OF BED |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    51,201        97.93       97.93
         1 Yes |     1,084         2.07      100.00
---------------+----------------------------------
         Total |    52,285       100.00
(51,201 real changes made)


  R1 DT5A TAKES |
SP PLACES MOST |      Freq.      Percent      Cum.
---------------+----------------------------------
-1 Inapplicable |    48,505        92.77       92.77
         1 Yes |     3,780         7.23      100.00
---------------+----------------------------------
         Total |    52,285       100.00
(48,505 real changes made)
```

```
  R1 DT7A TAKES |
 SP PLACES OTH |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      50,442         96.48       96.48
         1 Yes |       1,843          3.52      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(50,442 real changes made)

  R1 HA3A HELPS |
SP WITH LAUNDRY |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      48,357         92.49       92.49
         1 Yes |       3,928          7.51      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(48,357 real changes made)

  R1 HA25A HELPS |
        SP WITH |
       SHOPPING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      46,731         89.38       89.38
         1 Yes |       5,554         10.62      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(46,731 real changes made)

  R1 HA32A HELPS |
  SP WITH MEALS |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      47,057         90.00       90.00
         1 Yes |       5,228         10.00      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(47,057 real changes made)

  R1 HA42A HELPS |
SP WITH BANKING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      48,892         93.51       93.51
         1 Yes |       3,393          6.49      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(48,892 real changes made)

  R1 SC3A HELPS |
 SP WITH EATING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      51,286         98.09       98.09
         1 Yes |         999          1.91      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(51,286 real changes made)

  R1 SC11A HELPS |
SP WITH BATHING |       Freq.       Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |      50,903         97.36       97.36
         1 Yes |       1,382          2.64      100.00
---------------+---------------------------------------
         Total |      52,285        100.00
(50,903 real changes made)
```

```
   R1 SC17A HELPS |
       SP WITH |
      TOILETING |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    51,502        98.50        98.50
          1 Yes |       783         1.50       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(51,502 real changes made)
```

```
   R1 SC23A HELPS |
       SP WITH |
      DRESSING |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    50,533        96.65        96.65
          1 Yes |     1,752         3.35       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(50,533 real changes made)
```

```
   R1 MC5A HELPS |
       SP WITH |
      MEDICINES |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    50,666        96.90        96.90
          1 Yes |     1,619         3.10       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(50,666 real changes made)
```

```
   R1 HA52A HELPS |
  SP WITH MONEY |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    51,075        97.69        97.69
          1 Yes |     1,210         2.31       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(51,075 real changes made)
```

```
   R1 MC17A SITS |
  IN W SP AT DRS |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    48,781        93.30        93.30
          1 Yes |     3,504         6.70       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(48,781 real changes made)
```

```
   R1 MC22A HELPS |
     WITH INSUR |
         DECIS |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    51,894        99.25        99.25
          1 Yes |       391         0.75       100.00
---------------+---------------------------------------
         Total |    52,285       100.00
(51,894 real changes made)
```

```
   R1 MO6A HELPS |
  SP GO OUTSIDE |     Freq.      Percent        Cum.
---------------+---------------------------------------
-1 Inapplicable |    49,066        95.88        95.88
          1 Yes |     2,108         4.12       100.00
---------------+---------------------------------------
         Total |    51,174       100.00
(49,066 real changes made)
```

```
 R1 MO19A HELPS |
SP INSIDE HOUSE |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     49,578         96.88        96.88
          1 Yes |      1,596          3.12       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(49,578 real changes made)
```

```
 R1 MO25A HELPS |
  SP OUT OF BED |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     49,915         97.54        97.54
          1 Yes |      1,259          2.46       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(49,915 real changes made)
```

```
  R1 DT5A TAKES |
SP PLACES MOST  |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     47,690         93.19        93.19
          1 Yes |      3,484          6.81       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(47,690 real changes made)
```

```
  R1 DT7A TAKES |
 SP PLACES OTH  |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     49,390         96.51        96.51
          1 Yes |      1,784          3.49       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(49,390 real changes made)
```

```
  R1 HA3A HELPS |
SP WITH LAUNDRY |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     47,738         93.29        93.29
          1 Yes |      3,436          6.71       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(47,738 real changes made)
```

```
 R1 HA25A HELPS |
        SP WITH |
       SHOPPING |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     46,370         90.61        90.61
          1 Yes |      4,804          9.39       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(46,370 real changes made)
```

```
 R1 HA32A HELPS |
  SP WITH MEALS |      Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |     46,584         91.03        91.03
          1 Yes |      4,590          8.97       100.00
----------------+---------------------------------------
          Total |     51,174        100.00
(46,584 real changes made)
```

```
  R1 HA42A HELPS |
SP WITH BANKING |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     48,291         94.37        94.37
          1 Yes |      2,883          5.63       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(48,291 real changes made)
```

```
   R1 SC3A HELPS |
 SP WITH EATING |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     50,058         97.82        97.82
          1 Yes |      1,116          2.18       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(50,058 real changes made)
```

```
  R1 SC11A HELPS |
SP WITH BATHING |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     49,655         97.03        97.03
          1 Yes |      1,519          2.97       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(49,655 real changes made)
```

```
  R1 SC17A HELPS |
        SP WITH |
      TOILETING |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     50,203         98.10        98.10
          1 Yes |        971          1.90       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(50,203 real changes made)
```

```
  R1 SC23A HELPS |
        SP WITH |
       DRESSING |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     49,318         96.37        96.37
          1 Yes |      1,856          3.63       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(49,318 real changes made)
```

```
   R1 MC5A HELPS |
        SP WITH |
      MEDICINES |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     49,779         97.27        97.27
          1 Yes |      1,395          2.73       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(49,779 real changes made)
```

```
  R1 HA52A HELPS |
 SP WITH MONEY |      Freq.       Percent        Cum.
----------------+-----------------------------------------
-1 Inapplicable |     50,138         97.98        97.98
          1 Yes |      1,036          2.02       100.00
----------------+-----------------------------------------
          Total |     51,174        100.00
(50,138 real changes made)
```

```
  R1 MC17A SITS |
 IN W SP AT DRS |      Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     48,004         93.81         93.81
          1 Yes |      3,170          6.19        100.00
----------------+------------------------------------
          Total |     51,174        100.00
(48,004 real changes made)

  R1 MC22A HELPS |
     WITH INSUR |
          DECIS |      Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     50,822         99.31         99.31
          1 Yes |        352          0.69        100.00
----------------+------------------------------------
          Total |     51,174        100.00
(50,822 real changes made)

  R1 MO6A HELPS |
  SP GO OUTSIDE |      Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     47,332         96.47         96.47
          1 Yes |      1,733          3.53        100.00
----------------+------------------------------------
          Total |     49,065        100.00
(47,332 real changes made)

  R1 MO19A HELPS |
 SP INSIDE HOUSE |     Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     47,702         97.22         97.22
          1 Yes |      1,363          2.78        100.00
----------------+------------------------------------
          Total |     49,065        100.00
(47,702 real changes made)

  R1 MO25A HELPS |
  SP OUT OF BED |      Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     47,998         97.83         97.83
          1 Yes |      1,067          2.17        100.00
----------------+------------------------------------
          Total |     49,065        100.00
(47,998 real changes made)

  R1 DT5A TAKES |
 SP PLACES MOST |      Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     46,068         93.89         93.89
          1 Yes |      2,997          6.11        100.00
----------------+------------------------------------
          Total |     49,065        100.00
(46,068 real changes made)

  R1 DT7A TAKES |
 SP PLACES OTH |       Freq.       Percent         Cum.
----------------+------------------------------------
-1 Inapplicable |     47,543         96.90         96.90
          1 Yes |      1,522          3.10        100.00
----------------+------------------------------------
          Total |     49,065        100.00
(47,543 real changes made)
```

```
  R1 HA3A HELPS |
SP WITH LAUNDRY |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       46,118         93.99       93.99
          1 Yes |        2,947          6.01      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(46,118 real changes made)


  R1 HA25A HELPS |
        SP WITH |
       SHOPPING |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       44,920         91.55       91.55
          1 Yes |        4,145          8.45      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(44,920 real changes made)


  R1 HA32A HELPS |
  SP WITH MEALS |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       45,082         91.88       91.88
          1 Yes |        3,983          8.12      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(45,082 real changes made)


  R1 HA42A HELPS |
SP WITH BANKING |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       46,577         94.93       94.93
          1 Yes |        2,488          5.07      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(46,577 real changes made)


  R1 SC3A HELPS |
 SP WITH EATING |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       48,024         97.88       97.88
          1 Yes |        1,041          2.12      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(48,024 real changes made)


  R1 SC11A HELPS |
SP WITH BATHING |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       47,720         97.26       97.26
          1 Yes |        1,345          2.74      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(47,720 real changes made)


  R1 SC17A HELPS |
        SP WITH |
      TOILETING |        Freq.       Percent        Cum.
----------------+---------------------------------------
-1 Inapplicable |       48,318         98.48       98.48
          1 Yes |          747          1.52      100.00
----------------+---------------------------------------
          Total |       49,065        100.00
(48,318 real changes made)
```

```
     R1 SC23A HELPS |
         SP WITH |
         DRESSING |     Freq.       Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |    47,470        96.75       96.75
          1 Yes |     1,595         3.25      100.00
---------------+---------------------------------
          Total |    49,065       100.00
(47,470 real changes made)

      R1 MC5A HELPS |
         SP WITH |
        MEDICINES |     Freq.       Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |    47,841        97.51       97.51
          1 Yes |     1,224         2.49      100.00
---------------+---------------------------------
          Total |    49,065       100.00
(47,841 real changes made)

     R1 HA52A HELPS |
    SP WITH MONEY |     Freq.       Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |    48,157        98.15       98.15
          1 Yes |       908         1.85      100.00
---------------+---------------------------------
          Total |    49,065       100.00
(48,157 real changes made)

     R1 MC17A SITS |
   IN W SP AT DRS |     Freq.       Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |    46,353        94.47       94.47
          1 Yes |     2,712         5.53      100.00
---------------+---------------------------------
          Total |    49,065       100.00
(46,353 real changes made)

     R1 MC22A HELPS |
       WITH INSUR |
           DECIS |     Freq.       Percent       Cum.
---------------+---------------------------------
-1 Inapplicable |    48,784        99.43       99.43
          1 Yes |       281         0.57      100.00
---------------+---------------------------------
          Total |    49,065       100.00
(48,784 real changes made)

95.
96. //generate variable indicating help with only one activity
97. gen numact=.
  (297,326 missing values generated)

98. forvalues w=1/$w{
  2. replace numact=outhlp + insdhlp + bedhlp + tkplhlp1 + tkplhlp2 + launhlp +
> ///
> shophlp + mealhlp + bankhlp + eathlp + bathhlp + toilhlp + dreshlp + medshlp /
> //
> + moneyhlp + dochlp + insurhlp if wave==`w'
  3. }
  (38,097 real changes made)
  (37,944 real changes made)
  (35,745 real changes made)
  (33,016 real changes made)
  (52,285 real changes made)
  (51,174 real changes made)
  (49,065 real changes made)
```

99.
100 tab numact wave, missing

```
            |                       Survey wave
     numact |         1          2          3          4          5 |      Total
------------+-------------------------------------------------------+----------
          0 |    26,152     26,835     25,983     24,744     38,773 |    219,139
          1 |     4,741      4,436      4,003      3,367      5,526 |     31,857
          2 |     1,875      1,747      1,566      1,359      2,220 |     12,465
          3 |     1,433      1,382      1,091        931      1,627 |      9,299
          4 |     1,242      1,122        974        755      1,291 |      7,632
          5 |       877        786        665        611        896 |      5,487
          6 |       570        580        520        448        679 |      3,945
          7 |       345        357        357        264        417 |      2,511
          8 |       246        203        157        173        235 |      1,443
          9 |       149        152        126        111        185 |      1,097
         10 |       134        109        105         75        139 |        769
         11 |       131         95         78         63        110 |        640
         12 |        92         57         51         55         90 |        470
         13 |        55         51         40         35         51 |        313
         14 |        41         23         20         17         40 |        201
         15 |        13          9          8          7          6 |         54
         16 |         1          0          1          1          0 |          4
------------+-------------------------------------------------------+----------
      Total |    38,097     37,944     35,745     33,016     52,285 |    297,326
```

```
            |     Survey wave
     numact |         6          7 |      Total
------------+----------------------+----------
          0 |    38,483     38,169 |    219,139
          1 |     5,262      4,522 |     31,857
          2 |     1,994      1,704 |     12,465
          3 |     1,525      1,310 |      9,299
          4 |     1,220      1,028 |      7,632
          5 |       874        778 |      5,487
          6 |       617        531 |      3,945
          7 |       426        345 |      2,511
          8 |       230        199 |      1,443
          9 |       197        177 |      1,097
         10 |       111         96 |        769
         11 |        84         79 |        640
         12 |        62         63 |        470
         13 |        48         33 |        313
         14 |        31         29 |        201
         15 |         9          2 |         54
         16 |         1          0 |          4
------------+----------------------+----------
      Total |    51,174     49,065 |    297,326
```

101 gen oneact=0 //note this =0 if help with no activities

102 replace oneact=1 if numact==1
   (31,857 real changes made)

103 tab oneact opishelper_allw, missing

```
            |    opishelper_allw
     oneact |        -1          1 |      Total
------------+----------------------+----------
          0 |   225,082     40,387 |    265,469
          1 |     2,201     29,656 |     31,857
------------+----------------------+----------
      Total |   227,283     70,043 |    297,326
```

```
104
105 ********************************************************************
106 //generate variables indicating relationship is spouse, other rel, other nonre
  > l
107 gen spouse=.
  (297,326 missing values generated)

108 gen otherrel=.
  (297,326 missing values generated)

109 gen nonrel=.
  (297,326 missing values generated)

110 gen daughter=0

111 gen son=0

112 gen oth_fam=0

113
114 label var otherrel "Non-spouse relative"

115 label var oth_fam "Family member of SP, not spouse, son, or daughter"

116 label var nonrel "Non-relative"

117
118 forvalues w=1/$w{
   2. replace spouse=0 if wave==`w'
   3. replace spouse=1 if relat==2 & wave==`w'
   4. replace otherrel=0 if wave==`w'
   5. replace otherrel=1 if ((relat>2 & relat<=29) | relat==91) & wave==`w'
   6. replace nonrel=0 if wave==`w'
   7. replace nonrel=1 if (relat>=30 & relat~=91) & wave==`w'
   8. replace daughter=1 if inlist(relat,3,5,7) & wave==`w'
   9. replace son=1 if inlist(relat,4,6,8) & wave==`w'
  10. replace oth_fam=1 if ((relat>8 & relat<=29) | relat==91) & wave==`w'
  11.
119 tab relat spouse
  12. tab relat otherrel
  13. tab relat nonrel
  14. }
  (38,097 real changes made)
  (3,804 real changes made)
  (38,097 real changes made)
  (29,181 real changes made)
  (38,097 real changes made)
  (5,112 real changes made)
  (11,763 real changes made)
  (11,544 real changes made)
  (5,874 real changes made)
```

| R1 OTHR PRSN | spouse | |
RELATIONSHIP TO SP	0	1	Total
2 SPOUSE/ PARTNER	0	3,804	3,804
3 DAUGHTER	10,386	0	10,386
4 SON	10,322	0	10,322
5 DAUGHTER-IN-LAW	403	0	403
6 SON-IN-LAW	331	0	331
7 STEPDAUGHTER	974	0	974
8 STEPSON	891	0	891
9 SISTER	1,360	0	1,360
10 BROTHER	571	0	571
11 SISTER-IN-LAW	205	0	205
12 BROTHER-IN-LAW	77	0	77
13 MOTHER	115	0	115
14 STEPMOTHER	5	0	5
15 MOTHER-IN-LAW	35	0	35
16 FATHER	14	0	14
17 STEPFATHER	3	0	3
18 FATHER-IN-LAW	7	0	7

```
       19 GRANDDAUGHTER |    1,169          0 |    1,169
           20 GRANDSON |      950          0 |      950
             21 NIECE |      347          0 |      347
            22 NEPHEW |      201          0 |      201
             23 AUNT |       45          0 |       45
            24 UNCLE |       14          0 |       14
           25 COUSIN |      182          0 |      182
 26 STEPDAUGHTER'S SON |       30          0 |       30
 27 STEPSON'S SON/ DAU |       12          0 |       12
  28 DAUGHTER-IN-LAW'S |       55          0 |       55
  29 SON-IN-LAW'S SON/ |       26          0 |       26
     30 BOARDER/RENTER |       10          0 |       10
 31 PAID AIDE/ HOUSEKE |      547          0 |      547
          32 ROOMMATE |       25          0 |       25
 33 EX-WIFE/ EX-HUSBAN |       54          0 |       54
 34 BOYFRIEND/ GIRLFRI |       51          0 |       51
          35 NEIGHBOR |      189          0 |      189
            36 FRIEND |    2,803          0 |    2,803
 37 STAFF PERSON AT TH |      367          0 |      367
        38 CO-WORKER |       18          0 |       18
 39 MINISTER, PRIEST, |      155          0 |      155
 40 PSYCHIATRIST, PSYC |       41          0 |       41
     91 OTHER RELATIVE |      451          0 |      451
  92 OTHER NONRELATIVE |      852          0 |      852
--------------------+--------------------+---------
              Total |   34,293      3,804 |   38,097


         R1 OTHR PRSN | Non-spouse relative
     RELATIONSHIP TO SP |       0          1 |    Total
--------------------+--------------------+---------
   2 SPOUSE/ PARTNER |    3,804          0 |    3,804
          3 DAUGHTER |        0     10,386 |   10,386
               4 SON |        0     10,322 |   10,322
    5 DAUGHTER-IN-LAW |        0        403 |      403
        6 SON-IN-LAW |        0        331 |      331
      7 STEPDAUGHTER |        0        974 |      974
          8 STEPSON |        0        891 |      891
            9 SISTER |        0      1,360 |    1,360
          10 BROTHER |        0        571 |      571
     11 SISTER-IN-LAW |        0        205 |      205
    12 BROTHER-IN-LAW |        0         77 |       77
          13 MOTHER |        0        115 |      115
       14 STEPMOTHER |        0          5 |        5
    15 MOTHER-IN-LAW |        0         35 |       35
           16 FATHER |        0         14 |       14
       17 STEPFATHER |        0          3 |        3
    18 FATHER-IN-LAW |        0          7 |        7
    19 GRANDDAUGHTER |        0      1,169 |    1,169
          20 GRANDSON |        0        950 |      950
             21 NIECE |        0        347 |      347
            22 NEPHEW |        0        201 |      201
             23 AUNT |        0         45 |       45
            24 UNCLE |        0         14 |       14
           25 COUSIN |        0        182 |      182
 26 STEPDAUGHTER'S SON |        0         30 |       30
 27 STEPSON'S SON/ DAU |        0         12 |       12
  28 DAUGHTER-IN-LAW'S |        0         55 |       55
  29 SON-IN-LAW'S SON/ |        0         26 |       26
     30 BOARDER/RENTER |       10          0 |       10
 31 PAID AIDE/ HOUSEKE |      547          0 |      547
          32 ROOMMATE |       25          0 |       25
 33 EX-WIFE/ EX-HUSBAN |       54          0 |       54
 34 BOYFRIEND/ GIRLFRI |       51          0 |       51
          35 NEIGHBOR |      189          0 |      189
            36 FRIEND |    2,803          0 |    2,803
 37 STAFF PERSON AT TH |      367          0 |      367
        38 CO-WORKER |       18          0 |       18
 39 MINISTER, PRIEST, |      155          0 |      155
 40 PSYCHIATRIST, PSYC |       41          0 |       41
     91 OTHER RELATIVE |        0        451 |      451
  92 OTHER NONRELATIVE |      852          0 |      852
```

```
--------------------+--------------------+----------
           Total |   8,916    29,181 |    38,097
```

```
      R1 OTHR PRSN |    Non-relative
   RELATIONSHIP TO SP |      0        1 |    Total
--------------------+--------------------+----------
  2 SPOUSE/ PARTNER |   3,804        0 |    3,804
         3 DAUGHTER |  10,386        0 |   10,386
             4 SON |  10,322        0 |   10,322
   5 DAUGHTER-IN-LAW |     403        0 |      403
        6 SON-IN-LAW |     331        0 |      331
      7 STEPDAUGHTER |     974        0 |      974
          8 STEPSON |     891        0 |      891
           9 SISTER |   1,360        0 |    1,360
          10 BROTHER |     571        0 |      571
     11 SISTER-IN-LAW |     205        0 |      205
     12 BROTHER-IN-LAW |      77        0 |       77
          13 MOTHER |     115        0 |      115
      14 STEPMOTHER |       5        0 |        5
     15 MOTHER-IN-LAW |      35        0 |       35
          16 FATHER |      14        0 |       14
      17 STEPFATHER |       3        0 |        3
     18 FATHER-IN-LAW |       7        0 |        7
    19 GRANDDAUGHTER |   1,169        0 |    1,169
         20 GRANDSON |     950        0 |      950
           21 NIECE |     347        0 |      347
          22 NEPHEW |     201        0 |      201
            23 AUNT |      45        0 |       45
           24 UNCLE |      14        0 |       14
          25 COUSIN |     182        0 |      182
 26 STEPDAUGHTER'S SON |      30        0 |       30
 27 STEPSON'S SON/ DAU |      12        0 |       12
 28 DAUGHTER-IN-LAW'S |      55        0 |       55
 29 SON-IN-LAW'S SON/ |      26        0 |       26
     30 BOARDER/RENTER |       0       10 |       10
 31 PAID AIDE/ HOUSEKE |       0      547 |      547
          32 ROOMMATE |       0       25 |       25
 33 EX-WIFE/ EX-HUSBAN |       0       54 |       54
 34 BOYFRIEND/ GIRLFRI |       0       51 |       51
         35 NEIGHBOR |       0      189 |      189
           36 FRIEND |       0    2,803 |    2,803
 37 STAFF PERSON AT TH |       0      367 |      367
        38 CO-WORKER |       0       18 |       18
 39 MINISTER, PRIEST, |       0      155 |      155
 40 PSYCHIATRIST, PSYC |       0       41 |       41
     91 OTHER RELATIVE |     451        0 |      451
 92 OTHER NONRELATIVE |       0      852 |      852
--------------------+--------------------+----------
           Total |  32,985     5,112 |    38,097
```

(37,944 real changes made)
(3,063 real changes made)
(37,944 real changes made)
(27,270 real changes made)
(37,944 real changes made)
(7,365 real changes made)
(10,211 real changes made)
(9,912 real changes made)
(7,147 real changes made)

```
      R1 OTHR PRSN |        spouse
RELATIONSHIP TO SP |        0          1 |     Total
-------------------+--------------------+----------
              -8 |        3          0 |         3
              -1 |      243          0 |       243
 2 SPOUSE/ PARTNER |        0      6,867 |     6,867
        3 DAUGHTER |   19,244          0 |    19,244
            4 SON |   19,064          0 |    19,064
  5 DAUGHTER-IN-LAW |      906          0 |       906
      6 SON-IN-LAW |      708          0 |       708
    7 STEPDAUGHTER |    1,824          0 |     1,824
        8 STEPSON |    1,684          0 |     1,684
         9 SISTER |    2,810          0 |     2,810
       10 BROTHER |    1,211          0 |     1,211
  11 SISTER-IN-LAW |      465          0 |       465
 12 BROTHER-IN-LAW |      171          0 |       171
       13 MOTHER |      233          0 |       233
    14 STEPMOTHER |       10          0 |        10
  15 MOTHER-IN-LAW |       78          0 |        78
       16 FATHER |       32          0 |        32
    17 STEPFATHER |        6          0 |         6
  18 FATHER-IN-LAW |       19          0 |        19
  19 GRANDDAUGHTER |    2,602          0 |     2,602
      20 GRANDSON |    2,159          0 |     2,159
         21 NIECE |      787          0 |       787
        22 NEPHEW |      431          0 |       431
          23 AUNT |       90          0 |        90
         24 UNCLE |       28          0 |        28
        25 COUSIN |      422          0 |       422
26 STEPDAUGHTER'S SON |     71          0 |        71
27 STEPSON'S SON/ DAU |     37          0 |        37
28 DAUGHTER-IN-LAW'S |     130          0 |       130
29 SON-IN-LAW'S SON/ |      61          0 |        61
  30 BOARDER/RENTER |       21          0 |        21
31 PAID AIDE/ HOUSEKE |  1,426          0 |     1,426
       32 ROOMMATE |       54          0 |        54
33 EX-WIFE/ EX-HUSBAN |     139          0 |       139
34 BOYFRIEND/ GIRLFRI |     116          0 |       116
       35 NEIGHBOR |      464          0 |       464
         36 FRIEND |    6,358          0 |     6,358
37 STAFF PERSON AT TH |  1,014          0 |     1,014
      38 CO-WORKER |       44          0 |        44
39 MINISTER, PRIEST, |      349          0 |       349
40 PSYCHIATRIST, PSYC |      88          0 |        88
              41 |      113          0 |       113
  91 OTHER RELATIVE |    1,168          0 |     1,168
92 OTHER NONRELATIVE |    2,291          0 |     2,291
-------------------+--------------------+----------
           Total |   69,174      6,867 |    76,041


      R1 OTHR PRSN | Non-spouse relative
RELATIONSHIP TO SP |        0          1 |     Total
-------------------+--------------------+----------
              -8 |        3          0 |         3
              -1 |      243          0 |       243
 2 SPOUSE/ PARTNER |    6,867          0 |     6,867
        3 DAUGHTER |        0     19,244 |    19,244
            4 SON |        0     19,064 |    19,064
  5 DAUGHTER-IN-LAW |        0        906 |       906
      6 SON-IN-LAW |        0        708 |       708
    7 STEPDAUGHTER |        0      1,824 |     1,824
        8 STEPSON |        0      1,684 |     1,684
         9 SISTER |        0      2,810 |     2,810
       10 BROTHER |        0      1,211 |     1,211
  11 SISTER-IN-LAW |        0        465 |       465
 12 BROTHER-IN-LAW |        0        171 |       171
       13 MOTHER |        0        233 |       233
    14 STEPMOTHER |        0         10 |        10
  15 MOTHER-IN-LAW |        0         78 |        78
       16 FATHER |        0         32 |        32
    17 STEPFATHER |        0          6 |         6
```

```
       18 FATHER-IN-LAW |          0        19 |        19
       19 GRANDDAUGHTER |          0     2,602 |     2,602
          20 GRANDSON |          0     2,159 |     2,159
             21 NIECE |          0       787 |       787
            22 NEPHEW |          0       431 |       431
             23 AUNT |          0        90 |        90
            24 UNCLE |          0        28 |        28
            25 COUSIN |          0       422 |       422
 26 STEPDAUGHTER'S SON |          0        71 |        71
 27 STEPSON'S SON/ DAU |          0        37 |        37
 28 DAUGHTER-IN-LAW'S  |          0       130 |       130
 29 SON-IN-LAW'S SON/  |          0        61 |        61
    30 BOARDER/RENTER |         21         0 |        21
 31 PAID AIDE/ HOUSEKE |      1,426         0 |     1,426
          32 ROOMMATE |         54         0 |        54
 33 EX-WIFE/ EX-HUSBAN |        139         0 |       139
 34 BOYFRIEND/ GIRLFRI |        116         0 |       116
          35 NEIGHBOR |        464         0 |       464
            36 FRIEND |      6,358         0 |     6,358
 37 STAFF PERSON AT TH |      1,014         0 |     1,014
         38 CO-WORKER |         44         0 |        44
 39 MINISTER, PRIEST,  |        349         0 |       349
 40 PSYCHIATRIST, PSYC |         88         0 |        88
                 41 |        113         0 |       113
       91 OTHER RELATIVE |          0     1,168 |     1,168
 92 OTHER NONRELATIVE |      2,291         0 |     2,291
--------------------+--------------------+----------
              Total |     19,590    56,451 |    76,041


       R1 OTHR PRSN |     Non-relative
  RELATIONSHIP TO SP |          0         1 |     Total
--------------------+--------------------+----------
                 -8 |          3         0 |         3
                 -1 |        243         0 |       243
   2 SPOUSE/ PARTNER |      6,867         0 |     6,867
         3 DAUGHTER |     19,244         0 |    19,244
              4 SON |     19,064         0 |    19,064
    5 DAUGHTER-IN-LAW |        906         0 |       906
        6 SON-IN-LAW |        708         0 |       708
      7 STEPDAUGHTER |      1,824         0 |     1,824
           8 STEPSON |      1,684         0 |     1,684
            9 SISTER |      2,810         0 |     2,810
          10 BROTHER |      1,211         0 |     1,211
     11 SISTER-IN-LAW |        465         0 |       465
    12 BROTHER-IN-LAW |        171         0 |       171
           13 MOTHER |        233         0 |       233
        14 STEPMOTHER |         10         0 |        10
     15 MOTHER-IN-LAW |         78         0 |        78
           16 FATHER |         32         0 |        32
        17 STEPFATHER |          6         0 |         6
       18 FATHER-IN-LAW |         19         0 |        19
       19 GRANDDAUGHTER |      2,602         0 |     2,602
          20 GRANDSON |      2,159         0 |     2,159
             21 NIECE |        787         0 |       787
            22 NEPHEW |        431         0 |       431
             23 AUNT |         90         0 |        90
            24 UNCLE |         28         0 |        28
            25 COUSIN |        422         0 |       422
 26 STEPDAUGHTER'S SON |         71         0 |        71
 27 STEPSON'S SON/ DAU |         37         0 |        37
 28 DAUGHTER-IN-LAW'S  |        130         0 |       130
 29 SON-IN-LAW'S SON/  |         61         0 |        61
    30 BOARDER/RENTER |          0        21 |        21
 31 PAID AIDE/ HOUSEKE |          0     1,426 |     1,426
          32 ROOMMATE |          0        54 |        54
 33 EX-WIFE/ EX-HUSBAN |          0       139 |       139
 34 BOYFRIEND/ GIRLFRI |          0       116 |       116
          35 NEIGHBOR |          0       464 |       464
            36 FRIEND |          0     6,358 |     6,358
 37 STAFF PERSON AT TH |          0     1,014 |     1,014
         38 CO-WORKER |          0        44 |        44
```

```
39 MINISTER, PRIEST,  |          0         349 |         349
40 PSYCHIATRIST, PSYC |          0          88 |          88
                  41 |          0         113 |         113
     91 OTHER RELATIVE |      1,168           0 |       1,168
  92 OTHER NONRELATIVE |          0       2,291 |       2,291
--------------------+--------------------+----------
               Total |     63,564      12,477 |      76,041

(35,745 real changes made)
(2,440 real changes made)
(35,745 real changes made)
(24,421 real changes made)
(35,745 real changes made)
(8,364 real changes made)
(8,546 real changes made)
(8,352 real changes made)
(7,523 real changes made)

         R1 OTHR PRSN |       spouse
      RELATIONSHIP TO SP |        0           1 |       Total
--------------------+--------------------+----------
                  -8 |          3           0 |           3
                  -1 |        763           0 |         763
     2 SPOUSE/ PARTNER |          0       9,307 |       9,307
          3 DAUGHTER |     26,553           0 |      26,553
               4 SON |     26,341           0 |      26,341
    5 DAUGHTER-IN-LAW |      1,415           0 |       1,415
         6 SON-IN-LAW |      1,094           0 |       1,094
      7 STEPDAUGHTER |      2,552           0 |       2,552
          8 STEPSON |      2,373           0 |       2,373
            9 SISTER |      4,208           0 |       4,208
         10 BROTHER |      1,888           0 |       1,888
    11 SISTER-IN-LAW |        746           0 |         746
    12 BROTHER-IN-LAW |        277           0 |         277
          13 MOTHER |        347           0 |         347
      14 STEPMOTHER |         15           0 |          15
    15 MOTHER-IN-LAW |        125           0 |         125
          16 FATHER |         48           0 |          48
      17 STEPFATHER |          9           0 |           9
    18 FATHER-IN-LAW |         35           0 |          35
    19 GRANDDAUGHTER |      4,121           0 |       4,121
         20 GRANDSON |      3,444           0 |       3,444
            21 NIECE |      1,254           0 |       1,254
           22 NEPHEW |        687           0 |         687
             23 AUNT |        140           0 |         140
             24 UNCLE |         38           0 |          38
           25 COUSIN |        670           0 |         670
26 STEPDAUGHTER'S SON |        115           0 |         115
27 STEPSON'S SON/ DAU |         70           0 |          70
28 DAUGHTER-IN-LAW'S  |        237           0 |         237
29 SON-IN-LAW'S SON/  |        105           0 |         105
    30 BOARDER/RENTER |         32           0 |          32
31 PAID AIDE/ HOUSEKE |      2,405           0 |       2,405
         32 ROOMMATE |         80           0 |          80
33 EX-WIFE/ EX-HUSBAN |        235           0 |         235
34 BOYFRIEND/ GIRLFRI |        175           0 |         175
         35 NEIGHBOR |        833           0 |         833
           36 FRIEND |     10,399           0 |      10,399
37 STAFF PERSON AT TH |      1,659           0 |       1,659
        38 CO-WORKER |         71           0 |          71
39 MINISTER, PRIEST,  |        556           0 |         556
40 PSYCHIATRIST, PSYC |        136           0 |         136
                  41 |        202           0 |         202
     91 OTHER RELATIVE |      1,965           0 |       1,965
  92 OTHER NONRELATIVE |      4,058           0 |       4,058
--------------------+--------------------+----------
               Total |    102,479       9,307 |     111,786
```

```
      R1 OTHR PRSN |  Non-spouse relative
 RELATIONSHIP TO SP |        0          1 |    Total
--------------------+---------------------+---------
                -8 |        3          0 |        3
                -1 |      763          0 |      763
  2 SPOUSE/ PARTNER |    9,307          0 |    9,307
         3 DAUGHTER |        0     26,553 |   26,553
              4 SON |        0     26,341 |   26,341
  5 DAUGHTER-IN-LAW |        0      1,415 |    1,415
       6 SON-IN-LAW |        0      1,094 |    1,094
     7 STEPDAUGHTER |        0      2,552 |    2,552
          8 STEPSON |        0      2,373 |    2,373
           9 SISTER |        0      4,208 |    4,208
         10 BROTHER |        0      1,888 |    1,888
    11 SISTER-IN-LAW |        0        746 |      746
   12 BROTHER-IN-LAW |        0        277 |      277
          13 MOTHER |        0        347 |      347
      14 STEPMOTHER |        0         15 |       15
    15 MOTHER-IN-LAW |        0        125 |      125
          16 FATHER |        0         48 |       48
      17 STEPFATHER |        0          9 |        9
    18 FATHER-IN-LAW |        0         35 |       35
    19 GRANDDAUGHTER |        0      4,121 |    4,121
         20 GRANDSON |        0      3,444 |    3,444
           21 NIECE |        0      1,254 |    1,254
          22 NEPHEW |        0        687 |      687
             23 AUNT |        0        140 |      140
            24 UNCLE |        0         38 |       38
           25 COUSIN |        0        670 |      670
26 STEPDAUGHTER'S SON |        0        115 |      115
27 STEPSON'S SON/ DAU |        0         70 |       70
28 DAUGHTER-IN-LAW'S |        0        237 |      237
29 SON-IN-LAW'S SON/ |        0        105 |      105
    30 BOARDER/RENTER |       32          0 |       32
31 PAID AIDE/ HOUSEKE |    2,405          0 |    2,405
         32 ROOMMATE |       80          0 |       80
33 EX-WIFE/ EX-HUSBAN |      235          0 |      235
34 BOYFRIEND/ GIRLFRI |      175          0 |      175
         35 NEIGHBOR |      833          0 |      833
           36 FRIEND |   10,399          0 |   10,399
37 STAFF PERSON AT TH |    1,659          0 |    1,659
       38 CO-WORKER |       71          0 |       71
39 MINISTER, PRIEST,  |      556          0 |      556
40 PSYCHIATRIST, PSYC |      136          0 |      136
                41 |      202          0 |      202
   91 OTHER RELATIVE |        0      1,965 |    1,965
92 OTHER NONRELATIVE |    4,058          0 |    4,058
--------------------+---------------------+---------
            Total |   30,914     80,872 |  111,786


      R1 OTHR PRSN |     Non-relative
 RELATIONSHIP TO SP |        0          1 |    Total
--------------------+---------------------+---------
                -8 |        3          0 |        3
                -1 |      763          0 |      763
  2 SPOUSE/ PARTNER |    9,307          0 |    9,307
         3 DAUGHTER |   26,553          0 |   26,553
              4 SON |   26,341          0 |   26,341
  5 DAUGHTER-IN-LAW |    1,415          0 |    1,415
       6 SON-IN-LAW |    1,094          0 |    1,094
     7 STEPDAUGHTER |    2,552          0 |    2,552
          8 STEPSON |    2,373          0 |    2,373
           9 SISTER |    4,208          0 |    4,208
         10 BROTHER |    1,888          0 |    1,888
    11 SISTER-IN-LAW |      746          0 |      746
   12 BROTHER-IN-LAW |      277          0 |      277
          13 MOTHER |      347          0 |      347
      14 STEPMOTHER |       15          0 |       15
    15 MOTHER-IN-LAW |      125          0 |      125
          16 FATHER |       48          0 |       48
      17 STEPFATHER |        9          0 |        9
```

```
 18 FATHER-IN-LAW |         35          0 |         35
 19 GRANDDAUGHTER |      4,121          0 |      4,121
    20 GRANDSON |        3,444          0 |      3,444
       21 NIECE |        1,254          0 |      1,254
      22 NEPHEW |          687          0 |        687
        23 AUNT |          140          0 |        140
      24 UNCLE |           38          0 |         38
     25 COUSIN |          670          0 |        670
 26 STEPDAUGHTER'S SON |   115          0 |        115
 27 STEPSON'S SON/ DAU |    70          0 |         70
 28 DAUGHTER-IN-LAW'S |     237          0 |        237
 29 SON-IN-LAW'S SON/ |     105          0 |        105
    30 BOARDER/RENTER |       0         32 |         32
 31 PAID AIDE/ HOUSEKE |      0      2,405 |      2,405
        32 ROOMMATE |         0         80 |         80
 33 EX-WIFE/ EX-HUSBAN |      0        235 |        235
 34 BOYFRIEND/ GIRLFRI |      0        175 |        175
       35 NEIGHBOR |          0        833 |        833
         36 FRIEND |          0     10,399 |     10,399
 37 STAFF PERSON AT TH |      0      1,659 |      1,659
      38 CO-WORKER |          0         71 |         71
 39 MINISTER, PRIEST, |       0        556 |        556
 40 PSYCHIATRIST, PSYC |      0        136 |        136
            41 |             0        202 |        202
   91 OTHER RELATIVE |      1,965          0 |      1,965
 92 OTHER NONRELATIVE |        0      4,058 |      4,058
--------------------+--------------------+----------
         Total |       90,945     20,841 |    111,786
```

(33,016 real changes made)
(1,969 real changes made)
(33,016 real changes made)
(21,632 real changes made)
(33,016 real changes made)
(8,600 real changes made)
(7,165 real changes made)
(6,991 real changes made)
(7,476 real changes made)

```
     R1 OTHR PRSN |       spouse
  RELATIONSHIP TO SP |      0          1 |      Total
--------------------+--------------------+----------
            -8 |             3          0 |          3
            -1 |         1,578          0 |      1,578
 2 SPOUSE/ PARTNER |         0     11,276 |     11,276
      3 DAUGHTER |       32,623          0 |     32,623
          4 SON |       32,381          0 |     32,381
 5 DAUGHTER-IN-LAW |      1,904          0 |      1,904
     6 SON-IN-LAW |       1,459          0 |      1,459
   7 STEPDAUGHTER |       3,158          0 |      3,158
      8 STEPSON |         2,959          0 |      2,959
       9 SISTER |         5,544          0 |      5,544
     10 BROTHER |         2,538          0 |      2,538
 11 SISTER-IN-LAW |      1,041          0 |      1,041
 12 BROTHER-IN-LAW |       390          0 |        390
     13 MOTHER |           449          0 |        449
  14 STEPMOTHER |           20          0 |         20
 15 MOTHER-IN-LAW |        168          0 |        168
     16 FATHER |            62          0 |         62
  17 STEPFATHER |           13          0 |         13
 18 FATHER-IN-LAW |         53          0 |         53
 19 GRANDDAUGHTER |      5,660          0 |      5,660
    20 GRANDSON |        4,762          0 |      4,762
       21 NIECE |        1,727          0 |      1,727
      22 NEPHEW |          936          0 |        936
        23 AUNT |          191          0 |        191
      24 UNCLE |           48          0 |         48
     25 COUSIN |          921          0 |        921
 26 STEPDAUGHTER'S SON |   155          0 |        155
 27 STEPSON'S SON/ DAU |   101          0 |        101
 28 DAUGHTER-IN-LAW'S |     344          0 |        344
 29 SON-IN-LAW'S SON/ |     143          0 |        143
```

```
    30 BOARDER/RENTER |          43          0 |         43
 31 PAID AIDE/ HOUSEKE |       3,297          0 |      3,297
           32 ROOMMATE |         110          0 |        110
 33 EX-WIFE/ EX-HUSBAN |         331          0 |        331
 34 BOYFRIEND/ GIRLFRI |         226          0 |        226
           35 NEIGHBOR |       1,234          0 |      1,234
             36 FRIEND |      14,633          0 |     14,633
 37 STAFF PERSON AT TH |       2,243          0 |      2,243
         38 CO-WORKER  |          99          0 |         99
 39 MINISTER, PRIEST,  |         762          0 |        762
 40 PSYCHIATRIST, PSYC |         185          0 |        185
                   41  |         286          0 |        286
     91 OTHER RELATIVE |       2,754          0 |      2,754
  92 OTHER NONRELATIVE |       5,992          0 |      5,992
---------------------+--------------------+----------
              Total | 133,526     11,276 |    144,802
```

```
        R1 OTHR PRSN |  Non-spouse relative
     RELATIONSHIP TO SP |        0          1 |      Total
---------------------+--------------------+----------
                   -8 |         3          0 |          3
                   -1 |     1,578          0 |      1,578
    2 SPOUSE/ PARTNER |    11,276          0 |     11,276
           3 DAUGHTER |         0     32,623 |     32,623
                4 SON |         0     32,381 |     32,381
    5 DAUGHTER-IN-LAW |         0      1,904 |      1,904
         6 SON-IN-LAW |         0      1,459 |      1,459
        7 STEPDAUGHTER |        0      3,158 |      3,158
            8 STEPSON |         0      2,959 |      2,959
             9 SISTER |         0      5,544 |      5,544
           10 BROTHER |         0      2,538 |      2,538
     11 SISTER-IN-LAW |         0      1,041 |      1,041
     12 BROTHER-IN-LAW |        0        390 |        390
            13 MOTHER |         0        449 |        449
        14 STEPMOTHER |         0         20 |         20
     15 MOTHER-IN-LAW |         0        168 |        168
            16 FATHER |         0         62 |         62
        17 STEPFATHER |         0         13 |         13
     18 FATHER-IN-LAW |         0         53 |         53
     19 GRANDDAUGHTER |         0      5,660 |      5,660
          20 GRANDSON |         0      4,762 |      4,762
             21 NIECE |         0      1,727 |      1,727
            22 NEPHEW |         0        936 |        936
              23 AUNT |         0        191 |        191
             24 UNCLE |         0         48 |         48
            25 COUSIN |         0        921 |        921
 26 STEPDAUGHTER'S SON |        0        155 |        155
 27 STEPSON'S SON/ DAU |        0        101 |        101
 28 DAUGHTER-IN-LAW'S  |        0        344 |        344
 29 SON-IN-LAW'S SON/  |        0        143 |        143
    30 BOARDER/RENTER |         43          0 |         43
 31 PAID AIDE/ HOUSEKE |      3,297          0 |      3,297
           32 ROOMMATE |        110          0 |        110
 33 EX-WIFE/ EX-HUSBAN |        331          0 |        331
 34 BOYFRIEND/ GIRLFRI |        226          0 |        226
           35 NEIGHBOR |      1,234          0 |      1,234
             36 FRIEND |     14,633          0 |     14,633
 37 STAFF PERSON AT TH |      2,243          0 |      2,243
         38 CO-WORKER  |         99          0 |         99
 39 MINISTER, PRIEST,  |        762          0 |        762
 40 PSYCHIATRIST, PSYC |        185          0 |        185
                   41  |        286          0 |        286
     91 OTHER RELATIVE |         0      2,754 |      2,754
  92 OTHER NONRELATIVE |      5,992          0 |      5,992
---------------------+--------------------+----------
              Total |     42,298    102,504 |    144,802
```

```
        R1 OTHR PRSN |     Non-relative
  RELATIONSHIP TO SP |      0           1 |     Total
---------------------+--------------------+---------
                 -8 |      3           0 |        3
                 -1 |  1,578           0 |    1,578
   2 SPOUSE/ PARTNER | 11,276           0 |   11,276
          3 DAUGHTER | 32,623           0 |   32,623
              4 SON | 32,381           0 |   32,381
   5 DAUGHTER-IN-LAW |  1,904           0 |    1,904
        6 SON-IN-LAW |  1,459           0 |    1,459
      7 STEPDAUGHTER |  3,158           0 |    3,158
          8 STEPSON |  2,959           0 |    2,959
           9 SISTER |  5,544           0 |    5,544
         10 BROTHER |  2,538           0 |    2,538
    11 SISTER-IN-LAW |  1,041           0 |    1,041
   12 BROTHER-IN-LAW |    390           0 |      390
          13 MOTHER |    449           0 |      449
       14 STEPMOTHER |     20           0 |       20
    15 MOTHER-IN-LAW |    168           0 |      168
          16 FATHER |     62           0 |       62
       17 STEPFATHER |     13           0 |       13
    18 FATHER-IN-LAW |     53           0 |       53
     19 GRANDDAUGHTER |  5,660           0 |    5,660
         20 GRANDSON |  4,762           0 |    4,762
           21 NIECE |  1,727           0 |    1,727
          22 NEPHEW |    936           0 |      936
             23 AUNT |    191           0 |      191
            24 UNCLE |     48           0 |       48
           25 COUSIN |    921           0 |      921
26 STEPDAUGHTER'S SON |    155           0 |      155
27 STEPSON'S SON/ DAU |    101           0 |      101
28 DAUGHTER-IN-LAW'S |    344           0 |      344
29 SON-IN-LAW'S SON/ |    143           0 |      143
    30 BOARDER/RENTER |      0          43 |       43
31 PAID AIDE/ HOUSEKE |      0       3,297 |    3,297
        32 ROOMMATE |      0         110 |      110
33 EX-WIFE/ EX-HUSBAN |      0         331 |      331
34 BOYFRIEND/ GIRLFRI |      0         226 |      226
         35 NEIGHBOR |      0       1,234 |    1,234
           36 FRIEND |      0      14,633 |   14,633
37 STAFF PERSON AT TH |      0       2,243 |    2,243
        38 CO-WORKER |      0          99 |       99
39 MINISTER, PRIEST, |      0         762 |      762
40 PSYCHIATRIST, PSYC |      0         185 |      185
               41 |      0         286 |      286
    91 OTHER RELATIVE |  2,754           0 |    2,754
 92 OTHER NONRELATIVE |      0       5,992 |    5,992
---------------------+--------------------+---------
            Total | 115,361      29,441 |  144,802
```

(52,285 real changes made)
(3,736 real changes made)
(52,285 real changes made)
(35,336 real changes made)
(52,285 real changes made)
(12,301 real changes made)
(12,241 real changes made)
(11,938 real changes made)
(11,157 real changes made)

```
        R1 OTHR PRSN |       spouse
  RELATIONSHIP TO SP |      0           1 |     Total
---------------------+--------------------+---------
                 -8 |      3           0 |        3
                 -1 |  2,490           0 |    2,490
   2 SPOUSE/ PARTNER |      0      15,012 |   15,012
          3 DAUGHTER | 43,043           0 |   43,043
              4 SON | 42,736           0 |   42,736
   5 DAUGHTER-IN-LAW |  2,602           0 |    2,602
        6 SON-IN-LAW |  1,998           0 |    1,998
      7 STEPDAUGHTER |  4,281           0 |    4,281
          8 STEPSON |  4,003           0 |    4,003
```

9 SISTER	7,788	0	7,788
10 BROTHER	3,595	0	3,595
11 SISTER-IN-LAW	1,500	0	1,500
12 BROTHER-IN-LAW	569	0	569
13 MOTHER	632	0	632
14 STEPMOTHER	26	0	26
15 MOTHER-IN-LAW	233	0	233
16 FATHER	95	0	95
17 STEPFATHER	17	0	17
18 FATHER-IN-LAW	80	0	80
19 GRANDDAUGHTER	7,813	0	7,813
20 GRANDSON	6,713	0	6,713
21 NIECE	2,377	0	2,377
22 NEPHEW	1,265	0	1,265
23 AUNT	266	0	266
24 UNCLE	62	0	62
25 COUSIN	1,299	0	1,299
26 STEPDAUGHTER'S SON	206	0	206
27 STEPSON'S SON/ DAU	151	0	151
28 DAUGHTER-IN-LAW'S	485	0	485
29 SON-IN-LAW'S SON/	198	0	198
30 BOARDER/RENTER	69	0	69
31 PAID AIDE/ HOUSEKE	4,498	0	4,498
32 ROOMMATE	146	0	146
33 EX-WIFE/ EX-HUSBAN	458	0	458
34 BOYFRIEND/ GIRLFRI	310	0	310
35 NEIGHBOR	1,786	0	1,786
36 FRIEND	21,035	0	21,035
37 STAFF PERSON AT TH	2,924	0	2,924
38 CO-WORKER	139	0	139
39 MINISTER, PRIEST,	1,086	0	1,086
40 PSYCHIATRIST, PSYC	270	0	270
41	418	0	418
91 OTHER RELATIVE	3,807	0	3,807
92 OTHER NONRELATIVE	8,603	0	8,603
Total	182,075	15,012	197,087

R1 OTHR PRSN RELATIONSHIP TO SP	Non-spouse relative 0	1	Total
-8	3	0	3
-1	2,490	0	2,490
2 SPOUSE/ PARTNER	15,012	0	15,012
3 DAUGHTER	0	43,043	43,043
4 SON	0	42,736	42,736
5 DAUGHTER-IN-LAW	0	2,602	2,602
6 SON-IN-LAW	0	1,998	1,998
7 STEPDAUGHTER	0	4,281	4,281
8 STEPSON	0	4,003	4,003
9 SISTER	0	7,788	7,788
10 BROTHER	0	3,595	3,595
11 SISTER-IN-LAW	0	1,500	1,500
12 BROTHER-IN-LAW	0	569	569
13 MOTHER	0	632	632
14 STEPMOTHER	0	26	26
15 MOTHER-IN-LAW	0	233	233
16 FATHER	0	95	95
17 STEPFATHER	0	17	17
18 FATHER-IN-LAW	0	80	80
19 GRANDDAUGHTER	0	7,813	7,813
20 GRANDSON	0	6,713	6,713
21 NIECE	0	2,377	2,377
22 NEPHEW	0	1,265	1,265
23 AUNT	0	266	266
24 UNCLE	0	62	62
25 COUSIN	0	1,299	1,299
26 STEPDAUGHTER'S SON	0	206	206
27 STEPSON'S SON/ DAU	0	151	151
28 DAUGHTER-IN-LAW'S	0	485	485
29 SON-IN-LAW'S SON/	0	198	198

```
       30 BOARDER/RENTER |         69          0 |         69
   31 PAID AIDE/ HOUSEKE |      4,498          0 |      4,498
              32 ROOMMATE |        146          0 |        146
   33 EX-WIFE/ EX-HUSBAN |        458          0 |        458
   34 BOYFRIEND/ GIRLFRI |        310          0 |        310
              35 NEIGHBOR |      1,786          0 |      1,786
                36 FRIEND |     21,035          0 |     21,035
   37 STAFF PERSON AT TH |      2,924          0 |      2,924
             38 CO-WORKER |        139          0 |        139
   39 MINISTER, PRIEST,  |      1,086          0 |      1,086
   40 PSYCHIATRIST, PSYC |        270          0 |        270
                     41  |        418          0 |        418
        91 OTHER RELATIVE |          0      3,807 |      3,807
     92 OTHER NONRELATIVE |      8,603          0 |      8,603
   --------------------+--------------------+----------
                 Total |     59,247    137,840 |    197,087


           R1 OTHR PRSN |     Non-relative
           RELATIONSHIP TO SP |        0          1 |      Total
   --------------------+--------------------+----------
                    -8 |          3          0 |          3
                    -1 |      2,490          0 |      2,490
       2 SPOUSE/ PARTNER |     15,012          0 |     15,012
             3 DAUGHTER |     43,043          0 |     43,043
                  4 SON |     42,736          0 |     42,736
       5 DAUGHTER-IN-LAW |      2,602          0 |      2,602
            6 SON-IN-LAW |      1,998          0 |      1,998
          7 STEPDAUGHTER |      4,281          0 |      4,281
              8 STEPSON |      4,003          0 |      4,003
               9 SISTER |      7,788          0 |      7,788
             10 BROTHER |      3,595          0 |      3,595
       11 SISTER-IN-LAW |      1,500          0 |      1,500
       12 BROTHER-IN-LAW |        569          0 |        569
             13 MOTHER |        632          0 |        632
          14 STEPMOTHER |         26          0 |         26
       15 MOTHER-IN-LAW |        233          0 |        233
             16 FATHER |         95          0 |         95
          17 STEPFATHER |         17          0 |         17
       18 FATHER-IN-LAW |         80          0 |         80
       19 GRANDDAUGHTER |      7,813          0 |      7,813
           20 GRANDSON |      6,713          0 |      6,713
               21 NIECE |      2,377          0 |      2,377
              22 NEPHEW |      1,265          0 |      1,265
                23 AUNT |        266          0 |        266
                24 UNCLE |         62          0 |         62
              25 COUSIN |      1,299          0 |      1,299
   26 STEPDAUGHTER'S SON |        206          0 |        206
   27 STEPSON'S SON/ DAU |        151          0 |        151
   28 DAUGHTER-IN-LAW'S  |        485          0 |        485
   29 SON-IN-LAW'S SON/  |        198          0 |        198
       30 BOARDER/RENTER |          0         69 |         69
   31 PAID AIDE/ HOUSEKE |          0      4,498 |      4,498
              32 ROOMMATE |          0        146 |        146
   33 EX-WIFE/ EX-HUSBAN |          0        458 |        458
   34 BOYFRIEND/ GIRLFRI |          0        310 |        310
              35 NEIGHBOR |          0      1,786 |      1,786
                36 FRIEND |          0     21,035 |     21,035
   37 STAFF PERSON AT TH |          0      2,924 |      2,924
             38 CO-WORKER |          0        139 |        139
   39 MINISTER, PRIEST,  |          0      1,086 |      1,086
   40 PSYCHIATRIST, PSYC |          0        270 |        270
                     41  |          0        418 |        418
        91 OTHER RELATIVE |      3,807          0 |      3,807
     92 OTHER NONRELATIVE |          0      8,603 |      8,603
   --------------------+--------------------+----------
                 Total |    155,345     41,742 |    197,087
```

```
(51,174 real changes made)
(3,191 real changes made)
(51,174 real changes made)
(33,049 real changes made)
(51,174 real changes made)
(13,584 real changes made)
(10,799 real changes made)
(10,530 real changes made)
(11,720 real changes made)
```

```
      R1 OTHR PRSN |       spouse
   RELATIONSHIP TO SP |       0          1 |     Total
---------------------+--------------------+----------
                  -8 |       3          0 |        3
                  -1 |   3,840          0 |    3,840
    2 SPOUSE/ PARTNER |       0     18,203 |   18,203
          3 DAUGHTER |   52,128          0 |   52,128
              4 SON |   51,775          0 |   51,775
    5 DAUGHTER-IN-LAW |   3,313          0 |    3,313
        6 SON-IN-LAW |   2,542          0 |    2,542
      7 STEPDAUGHTER |   5,284          0 |    5,284
            8 STEPSON |   4,950          0 |    4,950
            9 SISTER |  10,095          0 |   10,095
            10 BROTHER |   4,738          0 |    4,738
    11 SISTER-IN-LAW |   2,013          0 |    2,013
    12 BROTHER-IN-LAW |     769          0 |      769
            13 MOTHER |     799          0 |      799
        14 STEPMOTHER |      33          0 |       33
    15 MOTHER-IN-LAW |     299          0 |      299
            16 FATHER |     129          0 |      129
        17 STEPFATHER |      20          0 |       20
    18 FATHER-IN-LAW |     111          0 |      111
    19 GRANDDAUGHTER |  10,026          0 |   10,026
        20 GRANDSON |   8,730          0 |    8,730
            21 NIECE |   3,072          0 |    3,072
            22 NEPHEW |   1,606          0 |    1,606
              23 AUNT |     347          0 |      347
              24 UNCLE |      81          0 |       81
            25 COUSIN |   1,709          0 |    1,709
 26 STEPDAUGHTER'S SON |     268          0 |      268
 27 STEPSON'S SON/ DAU |     191          0 |      191
 28 DAUGHTER-IN-LAW'S  |     655          0 |      655
 29 SON-IN-LAW'S SON/  |     263          0 |      263
    30 BOARDER/RENTER |      91          0 |       91
 31 PAID AIDE/ HOUSEKE |   5,792          0 |    5,792
          32 ROOMMATE |     187          0 |      187
 33 EX-WIFE/ EX-HUSBAN |     578          0 |      578
 34 BOYFRIEND/ GIRLFRI |     400          0 |      400
          35 NEIGHBOR |   2,460          0 |    2,460
            36 FRIEND |  28,011          0 |   28,011
 37 STAFF PERSON AT TH |   3,661          0 |    3,661
        38 CO-WORKER |     193          0 |      193
 39 MINISTER, PRIEST,  |   1,430          0 |    1,430
 40 PSYCHIATRIST, PSYC |     369          0 |      369
                  41 |     517          0 |      517
    91 OTHER RELATIVE |   4,943          0 |    4,943
 92 OTHER NONRELATIVE |  11,637          0 |   11,637
---------------------+--------------------+----------
              Total |  230,058     18,203 |   248,261
```

```
        R1 OTHR PRSN | Non-spouse relative
    RELATIONSHIP TO SP |        0           1 |    Total
  --------------------+--------------------+---------
                  -8 |        3           0 |        3
                  -1 |    3,840           0 |    3,840
    2 SPOUSE/ PARTNER |   18,203           0 |   18,203
           3 DAUGHTER |        0      52,128 |   52,128
               4 SON |        0      51,775 |   51,775
     5 DAUGHTER-IN-LAW |        0       3,313 |    3,313
          6 SON-IN-LAW |        0       2,542 |    2,542
       7 STEPDAUGHTER |        0       5,284 |    5,284
            8 STEPSON |        0       4,950 |    4,950
             9 SISTER |        0      10,095 |   10,095
           10 BROTHER |        0       4,738 |    4,738
     11 SISTER-IN-LAW |        0       2,013 |    2,013
    12 BROTHER-IN-LAW |        0         769 |      769
            13 MOTHER |        0         799 |      799
        14 STEPMOTHER |        0          33 |       33
     15 MOTHER-IN-LAW |        0         299 |      299
            16 FATHER |        0         129 |      129
        17 STEPFATHER |        0          20 |       20
     18 FATHER-IN-LAW |        0         111 |      111
     19 GRANDDAUGHTER |        0      10,026 |   10,026
          20 GRANDSON |        0       8,730 |    8,730
            21 NIECE |        0       3,072 |    3,072
           22 NEPHEW |        0       1,606 |    1,606
              23 AUNT |        0         347 |      347
             24 UNCLE |        0          81 |       81
            25 COUSIN |        0       1,709 |    1,709
  26 STEPDAUGHTER'S SON |        0         268 |      268
  27 STEPSON'S SON/ DAU |        0         191 |      191
  28 DAUGHTER-IN-LAW'S |        0         655 |      655
  29 SON-IN-LAW'S SON/ |        0         263 |      263
    30 BOARDER/RENTER |       91           0 |       91
  31 PAID AIDE/ HOUSEKE |    5,792           0 |    5,792
           32 ROOMMATE |      187           0 |      187
  33 EX-WIFE/ EX-HUSBAN |      578           0 |      578
  34 BOYFRIEND/ GIRLFRI |      400           0 |      400
           35 NEIGHBOR |    2,460           0 |    2,460
            36 FRIEND |   28,011           0 |   28,011
  37 STAFF PERSON AT TH |    3,661           0 |    3,661
         38 CO-WORKER |      193           0 |      193
  39 MINISTER, PRIEST,  |    1,430           0 |    1,430
  40 PSYCHIATRIST, PSYC |      369           0 |      369
                  41 |      517           0 |      517
     91 OTHER RELATIVE |        0       4,943 |    4,943
  92 OTHER NONRELATIVE |   11,637           0 |   11,637
  --------------------+--------------------+---------
               Total |   77,372     170,889 |  248,261


        R1 OTHR PRSN |      Non-relative
    RELATIONSHIP TO SP |        0           1 |    Total
  --------------------+--------------------+---------
                  -8 |        3           0 |        3
                  -1 |    3,840           0 |    3,840
    2 SPOUSE/ PARTNER |   18,203           0 |   18,203
           3 DAUGHTER |   52,128           0 |   52,128
               4 SON |   51,775           0 |   51,775
     5 DAUGHTER-IN-LAW |    3,313           0 |    3,313
          6 SON-IN-LAW |    2,542           0 |    2,542
       7 STEPDAUGHTER |    5,284           0 |    5,284
            8 STEPSON |    4,950           0 |    4,950
             9 SISTER |   10,095           0 |   10,095
           10 BROTHER |    4,738           0 |    4,738
     11 SISTER-IN-LAW |    2,013           0 |    2,013
    12 BROTHER-IN-LAW |      769           0 |      769
            13 MOTHER |      799           0 |      799
        14 STEPMOTHER |       33           0 |       33
     15 MOTHER-IN-LAW |      299           0 |      299
            16 FATHER |      129           0 |      129
        17 STEPFATHER |       20           0 |       20
```

```
   18 FATHER-IN-LAW |       111          0 |       111
   19 GRANDDAUGHTER |    10,026          0 |    10,026
      20 GRANDSON |      8,730          0 |     8,730
         21 NIECE |      3,072          0 |     3,072
        22 NEPHEW |      1,606          0 |     1,606
          23 AUNT |        347          0 |       347
         24 UNCLE |         81          0 |        81
        25 COUSIN |      1,709          0 |     1,709
26 STEPDAUGHTER'S SON |    268          0 |       268
27 STEPSON'S SON/ DAU |    191          0 |       191
28 DAUGHTER-IN-LAW'S |      655          0 |       655
29 SON-IN-LAW'S SON/ |      263          0 |       263
   30 BOARDER/RENTER |        0         91 |        91
31 PAID AIDE/ HOUSEKE |       0      5,792 |     5,792
      32 ROOMMATE |          0        187 |       187
33 EX-WIFE/ EX-HUSBAN |       0        578 |       578
34 BOYFRIEND/ GIRLFRI |       0        400 |       400
      35 NEIGHBOR |          0      2,460 |     2,460
        36 FRIEND |          0     28,011 |    28,011
37 STAFF PERSON AT TH |       0      3,661 |     3,661
     38 CO-WORKER |          0        193 |       193
39 MINISTER, PRIEST,  |       0      1,430 |     1,430
40 PSYCHIATRIST, PSYC |       0        369 |       369
            41 |          0        517 |       517
  91 OTHER RELATIVE |     4,943          0 |     4,943
92 OTHER NONRELATIVE |        0     11,637 |    11,637
--------------------+--------------------+----------
          Total |    192,935     55,326 |   248,261
```

(49,065 real changes made)
(2,729 real changes made)
(49,065 real changes made)
(30,636 real changes made)
(49,065 real changes made)
(14,305 real changes made)
(9,504 real changes made)
(9,314 real changes made)
(11,818 real changes made)

```
        R1 OTHR PRSN |       spouse
     RELATIONSHIP TO SP |     0          1 |     Total
--------------------+--------------------+----------
            -8 |         3          0 |         3
            -1 |     5,235          0 |     5,235
  2 SPOUSE/ PARTNER |        0     20,932 |    20,932
      3 DAUGHTER |     60,069          0 |    60,069
          4 SON |     59,708          0 |    59,708
 5 DAUGHTER-IN-LAW |     3,999          0 |     3,999
     6 SON-IN-LAW |      3,071          0 |     3,071
   7 STEPDAUGHTER |      6,161          0 |     6,161
       8 STEPSON |      5,802          0 |     5,802
        9 SISTER |     12,368          0 |    12,368
      10 BROTHER |      5,888          0 |     5,888
  11 SISTER-IN-LAW |     2,543          0 |     2,543
  12 BROTHER-IN-LAW |      967          0 |       967
       13 MOTHER |        960          0 |       960
    14 STEPMOTHER |         39          0 |        39
  15 MOTHER-IN-LAW |       369          0 |       369
        16 FATHER |        162          0 |       162
     17 STEPFATHER |        25          0 |        25
  18 FATHER-IN-LAW |       141          0 |       141
   19 GRANDDAUGHTER |    12,255          0 |    12,255
      20 GRANDSON |     10,731          0 |    10,731
         21 NIECE |      3,788          0 |     3,788
        22 NEPHEW |      1,961          0 |     1,961
          23 AUNT |        433          0 |       433
         24 UNCLE |        103          0 |       103
        25 COUSIN |      2,163          0 |     2,163
26 STEPDAUGHTER'S SON |    336          0 |       336
27 STEPSON'S SON/ DAU |    226          0 |       226
28 DAUGHTER-IN-LAW'S  |      825          0 |       825
29 SON-IN-LAW'S SON/  |      329          0 |       329
```

```
         30 BOARDER/RENTER |         109          0 |        109
      31 PAID AIDE/ HOUSEKE |       7,114          0 |      7,114
                32 ROOMMATE |         240          0 |        240
      33 EX-WIFE/ EX-HUSBAN |         710          0 |        710
      34 BOYFRIEND/ GIRLFRI |         492          0 |        492
                35 NEIGHBOR |       3,220          0 |      3,220
                  36 FRIEND |      35,308          0 |     35,308
      37 STAFF PERSON AT TH |       4,391          0 |      4,391
               38 CO-WORKER |         263          0 |        263
       39 MINISTER, PRIEST, |       1,810          0 |      1,810
      40 PSYCHIATRIST, PSYC |         486          0 |        486
                       41 |          613          0 |        613
         91 OTHER RELATIVE |        6,103          0 |      6,103
      92 OTHER NONRELATIVE |       14,875          0 |     14,875
    --------------------+--------------------+----------
                   Total |     276,394     20,932 |    297,326


            R1 OTHR PRSN | Non-spouse relative
         RELATIONSHIP TO SP |         0          1 |      Total
    --------------------+--------------------+----------
                      -8 |           3          0 |          3
                      -1 |       5,235          0 |      5,235
        2 SPOUSE/ PARTNER |      20,932          0 |     20,932
              3 DAUGHTER |           0     60,069 |     60,069
                   4 SON |           0     59,708 |     59,708
       5 DAUGHTER-IN-LAW |           0      3,999 |      3,999
            6 SON-IN-LAW |           0      3,071 |      3,071
          7 STEPDAUGHTER |           0      6,161 |      6,161
               8 STEPSON |           0      5,802 |      5,802
                9 SISTER |           0     12,368 |     12,368
             10 BROTHER |           0      5,888 |      5,888
        11 SISTER-IN-LAW |           0      2,543 |      2,543
       12 BROTHER-IN-LAW |           0        967 |        967
              13 MOTHER |           0        960 |        960
          14 STEPMOTHER |           0         39 |         39
        15 MOTHER-IN-LAW |           0        369 |        369
               16 FATHER |           0        162 |        162
          17 STEPFATHER |           0         25 |         25
        18 FATHER-IN-LAW |           0        141 |        141
        19 GRANDDAUGHTER |           0     12,255 |     12,255
            20 GRANDSON |           0     10,731 |     10,731
                21 NIECE |           0      3,788 |      3,788
               22 NEPHEW |           0      1,961 |      1,961
                 23 AUNT |           0        433 |        433
                24 UNCLE |           0        103 |        103
               25 COUSIN |           0      2,163 |      2,163
    26 STEPDAUGHTER'S SON |           0        336 |        336
    27 STEPSON'S SON/ DAU |           0        226 |        226
       28 DAUGHTER-IN-LAW'S |           0        825 |        825
       29 SON-IN-LAW'S SON/ |           0        329 |        329
         30 BOARDER/RENTER |         109          0 |        109
      31 PAID AIDE/ HOUSEKE |       7,114          0 |      7,114
                32 ROOMMATE |         240          0 |        240
      33 EX-WIFE/ EX-HUSBAN |         710          0 |        710
      34 BOYFRIEND/ GIRLFRI |         492          0 |        492
                35 NEIGHBOR |       3,220          0 |      3,220
                  36 FRIEND |      35,308          0 |     35,308
      37 STAFF PERSON AT TH |       4,391          0 |      4,391
               38 CO-WORKER |         263          0 |        263
       39 MINISTER, PRIEST, |       1,810          0 |      1,810
      40 PSYCHIATRIST, PSYC |         486          0 |        486
                       41 |          613          0 |        613
         91 OTHER RELATIVE |           0      6,103 |      6,103
      92 OTHER NONRELATIVE |       14,875          0 |     14,875
    --------------------+--------------------+----------
                   Total |      95,801    201,525 |    297,326
```

```
        R1 OTHR PRSN |     Non-relative
     RELATIONSHIP TO SP |       0         1 |      Total
     --------------------+--------------------+---------
                     -8 |       3         0 |         3
                     -1 |   5,235         0 |     5,235
       2 SPOUSE/ PARTNER |  20,932         0 |    20,932
             3 DAUGHTER |  60,069         0 |    60,069
                  4 SON |  59,708         0 |    59,708
        5 DAUGHTER-IN-LAW |   3,999         0 |     3,999
           6 SON-IN-LAW |   3,071         0 |     3,071
         7 STEPDAUGHTER |   6,161         0 |     6,161
              8 STEPSON |   5,802         0 |     5,802
               9 SISTER |  12,368         0 |    12,368
             10 BROTHER |   5,888         0 |     5,888
        11 SISTER-IN-LAW |   2,543         0 |     2,543
        12 BROTHER-IN-LAW |     967         0 |       967
             13 MOTHER |     960         0 |       960
          14 STEPMOTHER |      39         0 |        39
        15 MOTHER-IN-LAW |     369         0 |       369
             16 FATHER |     162         0 |       162
          17 STEPFATHER |      25         0 |        25
        18 FATHER-IN-LAW |     141         0 |       141
        19 GRANDDAUGHTER |  12,255         0 |    12,255
           20 GRANDSON |  10,731         0 |    10,731
              21 NIECE |   3,788         0 |     3,788
             22 NEPHEW |   1,961         0 |     1,961
               23 AUNT |     433         0 |       433
              24 UNCLE |     103         0 |       103
             25 COUSIN |   2,163         0 |     2,163
    26 STEPDAUGHTER'S SON |     336         0 |       336
    27 STEPSON'S SON/ DAU |     226         0 |       226
    28 DAUGHTER-IN-LAW'S |     825         0 |       825
    29 SON-IN-LAW'S SON/ |     329         0 |       329
        30 BOARDER/RENTER |       0       109 |       109
    31 PAID AIDE/ HOUSEKE |       0     7,114 |     7,114
           32 ROOMMATE |       0       240 |       240
    33 EX-WIFE/ EX-HUSBAN |       0       710 |       710
    34 BOYFRIEND/ GIRLFRI |       0       492 |       492
            35 NEIGHBOR |       0     3,220 |     3,220
              36 FRIEND |       0    35,308 |    35,308
    37 STAFF PERSON AT TH |       0     4,391 |     4,391
          38 CO-WORKER |       0       263 |       263
    39 MINISTER, PRIEST,  |       0     1,810 |     1,810
    40 PSYCHIATRIST, PSYC |       0       486 |       486
                    41 |       0       613 |       613
        91 OTHER RELATIVE |   6,103         0 |     6,103
      92 OTHER NONRELATIVE |       0    14,875 |    14,875
     --------------------+--------------------+---------
                  Total | 227,695    69,631 |   297,326
```

120
121 tab spouse wave, missing

```
           |                      Survey wave
    spouse |      1         2         3         4         5 |     Total
    ----------+-------------------------------------------------+----------
         0 |  34,293    34,881    33,305    31,047    48,549 |   276,394
         1 |   3,804     3,063     2,440     1,969     3,736 |    20,932
    ----------+-------------------------------------------------+----------
     Total |  38,097    37,944    35,745    33,016    52,285 |   297,326


           |     Survey wave
    spouse |      6         7 |     Total
    ----------+--------------------+----------
         0 |  47,983    46,336 |   276,394
         1 |   3,191     2,729 |    20,932
    ----------+--------------------+----------
     Total |  51,174    49,065 |   297,326
```

122 tab otherrel wave, missing

```
  Non-spouse |                          Survey wave
    relative |         1          2          3          4          5 |     Total
-------------+-------------------------------------------------------+----------
           0 |     8,916     10,674     11,324     11,384     16,949 |    95,801
           1 |    29,181     27,270     24,421     21,632     35,336 |   201,525
-------------+-------------------------------------------------------+----------
       Total |    38,097     37,944     35,745     33,016     52,285 |   297,326


  Non-spouse |    Survey wave
    relative |         6          7 |     Total
-------------+----------------------+----------
           0 |    18,125     18,429 |    95,801
           1 |    33,049     30,636 |   201,525
-------------+----------------------+----------
       Total |    51,174     49,065 |   297,326
```

123 tab nonrel wave, missing

```
  Non-relati |                          Survey wave
          ve |         1          2          3          4          5 |     Total
-------------+-------------------------------------------------------+----------
           0 |    32,985     30,579     27,381     24,416     39,984 |   227,695
           1 |     5,112      7,365      8,364      8,600     12,301 |    69,631
-------------+-------------------------------------------------------+----------
       Total |    38,097     37,944     35,745     33,016     52,285 |   297,326


  Non-relati |    Survey wave
          ve |         6          7 |     Total
-------------+----------------------+----------
           0 |    37,590     34,760 |   227,695
           1 |    13,584     14,305 |    69,631
-------------+----------------------+----------
       Total |    51,174     49,065 |   297,326
```

124
125 ***
126 //generate variables indicating help w/ adls & iadls
127 local adl insd bed eat bath toil dres

128 local iadl laun shop meal bank meds

129 local nonadl out money tkpl

130
131 gen tkplhlp=.
  (297,326 missing values generated)

132 forvalues w=1/$w{
    2. replace tkplhlp=tkplhlp1==1 | tkplhlp2==1 if wave==`w'
    3. }
  (38,097 real changes made)
  (37,944 real changes made)
  (35,745 real changes made)
  (33,016 real changes made)
  (52,285 real changes made)
  (51,174 real changes made)
  (49,065 real changes made)

```
133
134 foreach x in `adl' {
    2.          gen op_adl_`x'=0
    3. }

135 foreach x in `iadl' {
    2.          gen op_iadl_`x'=0
    3. }

136 foreach x in `nonadl' {
    2.          gen op_nonadl_`x'=0
    3. }

137
138 forvalues w=1/$w {
    2. foreach x in `adl' {
    3.          replace op_adl_`x'=1 if `x'hlp==1 & wave==`w'
    4. }
    5. foreach x in `iadl' {
    6.          replace op_iadl_`x'=1 if `x'hlp==1 & wave==`w'
    7. }
    8. foreach x in `nonadl' {
    9.          replace op_nonadl_`x'=1 if `x'hlp==1 & wave==`w'
   10. }
   11. }
   (1,146 real changes made)
   (725 real changes made)
   (631 real changes made)
   (966 real changes made)
   (496 real changes made)
   (1,220 real changes made)
   (3,849 real changes made)
   (5,406 real changes made)
   (4,857 real changes made)
   (3,502 real changes made)
   (1,582 real changes made)
   (1,734 real changes made)
   (1,191 real changes made)
   (5,478 real changes made)
   (1,408 real changes made)
   (1,002 real changes made)
   (996 real changes made)
   (1,465 real changes made)
   (858 real changes made)
   (1,533 real changes made)
   (3,153 real changes made)
   (4,307 real changes made)
   (4,104 real changes made)
   (2,793 real changes made)
   (1,315 real changes made)
   (1,825 real changes made)
   (910 real changes made)
   (4,721 real changes made)
   (1,277 real changes made)
   (987 real changes made)
   (1,020 real changes made)
   (1,346 real changes made)
   (865 real changes made)
   (1,494 real changes made)
   (2,597 real changes made)
   (3,634 real changes made)
   (3,441 real changes made)
   (2,312 real changes made)
   (1,101 real changes made)
   (1,646 real changes made)
   (772 real changes made)
   (4,050 real changes made)
   (1,122 real changes made)
   (877 real changes made)
   (912 real changes made)
   (1,106 real changes made)
   (687 real changes made)
```

```
   (1,312 real changes made)
   (2,169 real changes made)
   (2,980 real changes made)
   (2,885 real changes made)
   (1,936 real changes made)
   (983 real changes made)
   (1,433 real changes made)
   (731 real changes made)
   (3,396 real changes made)
   (1,512 real changes made)
   (1,084 real changes made)
   (999 real changes made)
   (1,382 real changes made)
   (783 real changes made)
   (1,752 real changes made)
   (3,928 real changes made)
   (5,554 real changes made)
   (5,228 real changes made)
   (3,393 real changes made)
   (1,619 real changes made)
   (2,060 real changes made)
   (1,210 real changes made)
   (5,623 real changes made)
   (1,596 real changes made)
   (1,259 real changes made)
   (1,116 real changes made)
   (1,519 real changes made)
   (971 real changes made)
   (1,856 real changes made)
   (3,436 real changes made)
   (4,804 real changes made)
   (4,590 real changes made)
   (2,883 real changes made)
   (1,395 real changes made)
   (2,108 real changes made)
   (1,036 real changes made)
   (5,268 real changes made)
   (1,363 real changes made)
   (1,067 real changes made)
   (1,041 real changes made)
   (1,345 real changes made)
   (747 real changes made)
   (1,595 real changes made)
   (2,947 real changes made)
   (4,145 real changes made)
   (3,983 real changes made)
   (2,488 real changes made)
   (1,224 real changes made)
   (1,733 real changes made)
   (908 real changes made)
   (4,519 real changes made)

139
140 *******************************************************************
141 //generate variables indicating help on a regular schedule
142 gen regular=.
   (297,326 missing values generated)

143 forvalues w=1/$w{
    2. replace regular=0 if wave==`w'
    3. replace regular=1 if helpsched==1 & wave==`w'
    4. }
   (38,097 real changes made)
   (3,198 real changes made)
   (37,944 real changes made)
   (2,832 real changes made)
   (35,745 real changes made)
   (2,077 real changes made)
   (33,016 real changes made)
   (1,713 real changes made)
   (52,285 real changes made)
   (2,800 real changes made)
```

```
      (51,174 real changes made)
      (2,637 real changes made)
      (49,065 real changes made)
      (2,113 real changes made)

144 tab regular wave, missing

            |                       Survey wave
    regular |         1          2          3          4          5 |     Total
  ----------+-------------------------------------------------------+----------
          0 |    34,899     35,112     33,668     31,303     49,485 |   279,956
          1 |     3,198      2,832      2,077      1,713      2,800 |    17,370
  ----------+-------------------------------------------------------+----------
      Total |    38,097     37,944     35,745     33,016     52,285 |   297,326


            |       Survey wave
    regular |         6          7 |     Total
  ----------+----------------------+----------
          0 |    48,537     46,952 |   279,956
          1 |     2,637      2,113 |    17,370
  ----------+----------------------+----------
      Total |    51,174     49,065 |   297,326


145
146 la def hrsmth -13"-13:Deceased" -12"-12:Zero days/wk" -11"-11:hours missing" /
  > //
  >   -10"-10:days missing" -9 "-9:days+hours mssing" -1"-1:NA" 1"1:Valid" 9999"999
  > 9:<1hr/day",replace

147 la val op_ind_hrsmth hrsmth

148
149 tab op_ind_hrsmth wave

                    |                       Survey wave
       op_ind_hrsmth |         1          2          3          4 |     Total
  ------------------+-------------------------------------------+----------
       -13:Deceased |         0      2,287      2,790      2,516 |    16,231
      -12:Zero days/wk |       0      1,264      1,024        998 |     9,399
     -11:hours missing |     253        220        324        237 |     1,886
      -10:days missing |     103          0          0          0 |       103
    -9:days+hours mssing |   729        372        558        547 |     4,199
               -1:NA |    26,500     25,833     24,542     23,415 |   211,052
            1:Valid |     9,206      7,502      6,116      4,921 |    49,937
       9999:<1hr/day |    1,306        466        391        382 |     4,519
  ------------------+-------------------------------------------+----------
              Total |    38,097     37,944     35,745     33,016 |   297,326


                    |            Survey wave
       op_ind_hrsmth |         5          6          7 |     Total
  ------------------+----------------------------------+----------
       -13:Deceased |     2,118      3,143      3,377 |    16,231
      -12:Zero days/wk |   2,374      1,878      1,861 |     9,399
     -11:hours missing |     333        292        227 |     1,886
      -10:days missing |       0          0          0 |       103
    -9:days+hours mssing |  1,007        543        443 |     4,199
               -1:NA |    37,743     36,863     36,156 |   211,052
            1:Valid |     7,975      7,801      6,416 |    49,937
       9999:<1hr/day |     735        654        585 |     4,519
  ------------------+----------------------------------+----------
              Total |    52,285     51,174     49,065 |   297,326
```

```
150
151 tab op_ind_hrsmth yearnotmonth if wave==1 & opishelper_allw==1

                    |      yearnotmonth
     op_ind_hrsmth |         0          1 |     Total
--------------------+----------------------+----------
  -11:hours missing |       242         11 |       253
   -10:days missing |        91         12 |       103
 -9:days+hours mssing |       638         91 |       729
           1:Valid |     8,697        509 |     9,206
       9999:<1hr/day |     1,072        234 |     1,306
--------------------+----------------------+----------
             Total |    10,740        857 |    11,597


152 tab op_ind_hrsmth yearnotmonth if wave==2 & opishelper_allw==1

                    |      yearnotmonth
     op_ind_hrsmth |         0          1 |     Total
--------------------+----------------------+----------
   -12:Zero days/wk |       965        299 |     1,264
  -11:hours missing |       209         11 |       220
 -9:days+hours mssing |       334         38 |       372
           1:Valid |     7,204        298 |     7,502
       9999:<1hr/day |       428         38 |       466
--------------------+----------------------+----------
             Total |     9,140        684 |     9,824


153
154 tab opishelper_allw

  opishelper_ |
        allw |      Freq.     Percent        Cum.
------------+-----------------------------------
         -1 |    227,283       76.44       76.44
          1 |     70,043       23.56      100.00
------------+-----------------------------------
      Total |    297,326      100.00

155
156 //generate indicator of imputation category
157 //1=impute, 2=recode to zero, 3=recode to small number hrs/day, 4=no imputatio
  > n needed
158 gen impute_cat=-1

159
160 //wave=1
161         //1=impute
162         replace impute_cat=1 if inlist(op_ind_hrsmth,-11,-10) | ///
  >         (op_ind_hrsmth==-9 & yearnotmonth==0) & ishelper==1 & wave==1
  (2,627 real changes made)

163         replace impute_cat=1 if op_ind_hrsmth==9999 & (numdayswk==1 | numdaysm
  > n==1) ///
  >          & yearnotmonth==0 & ishelper==1 & wave==1
  (676 real changes made)

164         //2=recode to zero
165         replace impute_cat=2 if op_ind_hrsmth==-9 & yearnotmonth==1 & ishelper
  > ==1 & wave==1
  (91 real changes made)
```

```
166        replace impute_cat=2 if op_ind_hrsmth==9999 & (numdayswk==1 | numdaysm
  > n==1) ///
  >          & yearnotmonth==1 & ishelper==1 & wave==1
  (212 real changes made)

167        //3=set to small number
168        replace impute_cat=3 if op_ind_hrsmth==9999 & ///
  >          (numdayswk~=1 & numdaysmn~=1) & ishelper==1 & wave==1
  (418 real changes made)

169        //4=imputation not necessary, complete info
170        replace impute_cat=4 if op_ind_hrsmth==1 & ishelper==1 & wave==1
  (9,206 real changes made)

171
172 //if wave==2 | wave==3 | wave == 4
173        //1=impute, wave 2,3 criteria
174        replace impute_cat=1 if inlist(op_ind_hrsmth,-11,-9) & opishelper_allw
  > ==1 & inrange(wave,2,$w)
  (3,470 real changes made)

175        replace impute_cat=1 if op_ind_hrsmth==-12 & yearnotmonth==0 & opishel
  > per_allw==1 & inrange(wave,2,$w)
  (6,877 real changes made)

176        //2=recode to zero, wave 2, 3
177        replace impute_cat=2 if op_ind_hrsmth==-12 & yearnotmonth==1 & opishel
  > per_allw==1 & inrange(wave,2,$w)
  (2,522 real changes made)

178        //3=recode to small number
179        replace impute_cat=3 if op_ind_hrsmth==9999 & opishelper_allw==1 & inr
  > ange(wave,2,$w)
  (3,213 real changes made)

180        //4=imputation not necessary
181        replace impute_cat=4 if op_ind_hrsmth==1 & opishelper_allw==1 & inrang
  > e(wave,2,$w)
  (40,731 real changes made)

182
183 la def impute_cat -1"N/A, not helper" 1"Impute" 2"Recode to zero" ///
  > 3"Recode to small number" 4"No imputation needed"

184 la val impute_cat impute_cat

185 tab impute_cat wave, missing
```

| | | Survey wave | | | |
impute_cat	1	2	3	4	Total
N/A, not helper	26,500	28,120	27,332	25,931	227,283
Impute	1,670	1,557	1,596	1,451	13,650
Recode to zero	303	299	310	331	2,825
Recode to small numbe	418	466	391	382	3,631
No imputation needed	9,206	7,502	6,116	4,921	49,937
Total	38,097	37,944	35,745	33,016	297,326

| | | Survey wave | | |
impute_cat	5	6	7	Total
N/A, not helper	39,861	40,006	39,533	227,283
Impute	3,140	2,156	2,080	13,650
Recode to zero	574	557	451	2,825
Recode to small numbe	735	654	585	3,631
No imputation needed	7,975	7,801	6,416	49,937
Total	52,285	51,174	49,065	297,326

```
186
187 tab impute_cat op_ind_hrsmth if wave==1, missing
```

	op_ind_hrsmth				
impute_cat	-11:hours	-10:days	-9:days+h	-1:NA	Total
N/A, not helper	0	0	0	26,500	26,500
Impute	253	103	638	0	1,670
Recode to zero	0	0	91	0	303
Recode to small numbe	0	0	0	0	418
No imputation needed	0	0	0	0	9,206
Total	253	103	729	26,500	38,097

	op_ind_hrsmth		
impute_cat	1:Valid	9999:<1hr	Total
N/A, not helper	0	0	26,500
Impute	0	676	1,670
Recode to zero	0	212	303
Recode to small numbe	0	418	418
No imputation needed	9,206	0	9,206
Total	9,206	1,306	38,097

```
188 tab impute_cat op_ind_hrsmth if wave==2, missing
```

	op_ind_hrsmth				
impute_cat	-13:Decea	-12:Zero	-11:hours	-9:days+h	Total
N/A, not helper	2,287	0	0	0	28,120
Impute	0	965	220	372	1,557
Recode to zero	0	299	0	0	299
Recode to small numbe	0	0	0	0	466
No imputation needed	0	0	0	0	7,502
Total	2,287	1,264	220	372	37,944

	op_ind_hrsmth		
impute_cat	-1:NA	1:Valid	9999:<1hr	Total
N/A, not helper	25,833	0	0	28,120
Impute	0	0	0	1,557
Recode to zero	0	0	0	299
Recode to small numbe	0	0	466	466
No imputation needed	0	7,502	0	7,502
Total	25,833	7,502	466	37,944

```
189 tab impute_cat op_ind_hrsmth if wave==3, missing
```

	op_ind_hrsmth				
impute_cat	-13:Decea	-12:Zero	-11:hours	-9:days+h	Total
N/A, not helper	2,790	0	0	0	27,332
Impute	0	714	324	558	1,596
Recode to zero	0	310	0	0	310
Recode to small numbe	0	0	0	0	391
No imputation needed	0	0	0	0	6,116
Total	2,790	1,024	324	558	35,745

```
                        |            op_ind_hrsmth
          impute_cat |   -1:NA    1:Valid 9999:<1hr |     Total
    --------------------+-------------------------------+----------
      N/A, not helper |   24,542          0          0 |    27,332
               Impute |        0          0          0 |     1,596
        Recode to zero |       0          0          0 |       310
  Recode to small numbe |       0          0        391 |       391
    No imputation needed |      0      6,116          0 |     6,116
    --------------------+-------------------------------+----------
                Total |   24,542      6,116        391 |    35,745
```

190 tab impute_cat op_ind_hrsmth if wave==4, missing

```
                        |              op_ind_hrsmth
          impute_cat | -13:Decea  -12:Zero  -11:hours  -9:days+h |     Total
    --------------------+-------------------------------------------+----------
      N/A, not helper |    2,516          0          0          0 |    25,931
               Impute |        0        667        237        547 |     1,451
        Recode to zero |       0        331          0          0 |       331
  Recode to small numbe |       0          0          0          0 |       382
    No imputation needed |      0          0          0          0 |     4,921
    --------------------+-------------------------------------------+----------
                Total |    2,516        998        237        547 |    33,016
```

```
                        |            op_ind_hrsmth
          impute_cat |   -1:NA    1:Valid 9999:<1hr |     Total
    --------------------+-------------------------------+----------
      N/A, not helper |   23,415          0          0 |    25,931
               Impute |        0          0          0 |     1,451
        Recode to zero |       0          0          0 |       331
  Recode to small numbe |       0          0        382 |       382
    No imputation needed |      0      4,921          0 |     4,921
    --------------------+-------------------------------+----------
                Total |   23,415      4,921        382 |    33,016
```

191 tab impute_cat op_ind_hrsmth if wave==5, missing

```
                        |              op_ind_hrsmth
          impute_cat | -13:Decea  -12:Zero  -11:hours  -9:days+h |     Total
    --------------------+-------------------------------------------+----------
      N/A, not helper |    2,118          0          0          0 |    39,861
               Impute |        0      1,800        333      1,007 |     3,140
        Recode to zero |       0        574          0          0 |       574
  Recode to small numbe |       0          0          0          0 |       735
    No imputation needed |      0          0          0          0 |     7,975
    --------------------+-------------------------------------------+----------
                Total |    2,118      2,374        333      1,007 |    52,285
```

```
                        |            op_ind_hrsmth
          impute_cat |   -1:NA    1:Valid 9999:<1hr |     Total
    --------------------+-------------------------------+----------
      N/A, not helper |   37,743          0          0 |    39,861
               Impute |        0          0          0 |     3,140
        Recode to zero |       0          0          0 |       574
  Recode to small numbe |       0          0        735 |       735
    No imputation needed |      0      7,975          0 |     7,975
    --------------------+-------------------------------+----------
                Total |   37,743      7,975        735 |    52,285
```

192 tab impute_cat op_ind_hrsmth if wave==6, missing

```
                     |                  op_ind_hrsmth
         impute_cat |  -13:Decea  -12:Zero  -11:hours  -9:days+h |    Total
---------------------+---------------------------------------------+----------
   N/A, not helper |     3,143         0         0         0 |   40,006
             Impute |         0     1,321       292       543 |    2,156
     Recode to zero |         0       557         0         0 |      557
Recode to small numbe |         0         0         0         0 |      654
 No imputation needed |         0         0         0         0 |    7,801
---------------------+---------------------------------------------+----------
              Total |     3,143     1,878       292       543 |   51,174


                     |         op_ind_hrsmth
         impute_cat |    -1:NA    1:Valid  9999:<1hr |    Total
---------------------+---------------------------------+----------
   N/A, not helper |    36,863         0         0 |   40,006
             Impute |         0         0         0 |    2,156
     Recode to zero |         0         0         0 |      557
Recode to small numbe |         0         0       654 |      654
 No imputation needed |         0     7,801         0 |    7,801
---------------------+---------------------------------+----------
              Total |    36,863     7,801       654 |   51,174
```

193 tab impute_cat op_ind_hrsmth if wave==7, missing

```
                     |                  op_ind_hrsmth
         impute_cat |  -13:Decea  -12:Zero  -11:hours  -9:days+h |    Total
---------------------+---------------------------------------------+----------
   N/A, not helper |     3,377         0         0         0 |   39,533
             Impute |         0     1,410       227       443 |    2,080
     Recode to zero |         0       451         0         0 |      451
Recode to small numbe |         0         0         0         0 |      585
 No imputation needed |         0         0         0         0 |    6,416
---------------------+---------------------------------------------+----------
              Total |     3,377     1,861       227       443 |   49,065


                     |         op_ind_hrsmth
         impute_cat |    -1:NA    1:Valid  9999:<1hr |    Total
---------------------+---------------------------------+----------
   N/A, not helper |    36,156         0         0 |   39,533
             Impute |         0         0         0 |    2,080
     Recode to zero |         0         0         0 |      451
Recode to small numbe |         0         0       585 |      585
 No imputation needed |         0     6,416         0 |    6,416
---------------------+---------------------------------+----------
              Total |    36,156     6,416       585 |   49,065
```

194
195 **
196 //save separate datasets for each round so can run imputation with weighting
197 forvalues w=1/$w{
  2.   preserve
  3.   /*keep op* wave numact yearnotmonth disab anfinwgt0 varstrat varunit ///
  >   dresid spid justone spouse otherrel nonrel regular oneact impute_cat son ///
  >   daughter oth_fam */

```
198 keep if wave==`w'
    4. save R`w'_for_hrs_impute.dta,replace
    5. restore
    6. }
  (259,229 observations deleted)
  file R1_for_hrs_impute.dta saved
  (259,382 observations deleted)
  file R2_for_hrs_impute.dta saved
  (261,581 observations deleted)
  file R3_for_hrs_impute.dta saved
  (264,310 observations deleted)
  file R4_for_hrs_impute.dta saved
  (245,041 observations deleted)
  file R5_for_hrs_impute.dta saved
  (246,152 observations deleted)
  file R6_for_hrs_impute.dta saved
  (248,261 observations deleted)
  file R7_for_hrs_impute.dta saved

199 */
200 ***********************************************************************
201 //implement matching, do separately for each wave
202 forvalues w=1/$w{
    2. use R`w'_for_hrs_impute.dta, clear
    3.
203 svyset varunit [pweight=anfinwgt0], strata(varstrat)
    4.
204 //wave 1 imputation... need to check what is different if anything for wave 2
205 gen op_hrsmth_i=0
    5. replace op_hrsmth_i=dhrsmth if impute_cat==4  //use actual value
    6. replace op_hrsmth_i=0 if impute_cat==2 //set to zero
    7. replace op_hrsmth_i=(.5*numdayswk*4.3) if impute_cat==3 & helpsched==1 //as
  > sign small hours
    8. replace op_hrsmth_i=(.5*numdaysmn) if impute_cat==3 & inlist(helpsched,2,-7
  > ,-8)  //assign small hours
    9.
206 //impute where op_ind_hrsmth=-10, missing days per month
207 gen op_numdays_i=0
    10. replace op_numdays_i=numdayswk*4.3 if inlist(impute_cat,3,4) & helpsched==1
    11. replace op_numdays_i=numdaysmn if inlist(impute_cat,3,4) & inlist(helpsched
  > ,2,-7,-8)
    12.
208 gen ln_opnumdays_i=ln(op_numdays_i) if inlist(impute_cat,3,4)
    13.
209 local adjvars spouse otherrel regular yearnotmonth oneact disab ///
  >  outhlp insdhlp bedhlp tkplhlp1 tkplhlp2 launhlp ///
  >  shophlp mealhlp bankhlp eathlp bathhlp toilhlp ///
  >  dreshlp medshlp moneyhlp dochlp insurhlp
    14.
210 svy: reg ln_opnumdays_i `adjvars' if inlist(impute_cat,3,4)
    15. predict ln_opnumdays_i2 if impute_cat==1 & op_ind_hrsmth==-10
    16. gen op_numdays_i2=exp(ln_opnumdays_i2) if impute_cat==1 & op_ind_hrsmth==-1
  > 0
    17. replace op_hrsmth_i= op_numdays_i2*numhrsday if impute_cat==1 & ///
  >  op_ind_hrsmth==-10 & numhrsday>=1
    18. replace op_hrsmth_i= op_numdays_i2*.5 if impute_cat==1 & ///
  >  op_ind_hrsmth==-10 & numhrsday==0
    19.
211 //impute where op_ind_hrsmth=-11, missing hours per day
212 gen op_numhrsday_i=0
    20. replace op_numhrsday_i=.5 if impute_cat==3
    21. replace op_numhrsday_i=numhrsday if impute_cat==4
    22. gen ln_opnumhrsday_i=ln(op_numhrsday_i) if inlist(impute_cat,3,4)
    23. svy: reg ln_opnumhrsday_i `adjvars' if inlist(impute_cat,3,4)
    24. predict ln_opnumhrsday_i2 if impute_cat==1 & op_ind_hrsmth==-11
    25. gen op_numhrsday_i2=exp(ln_opnumhrsday_i2) if impute_cat==1 & op_ind_hrsmth
  > ==-11
    26. replace op_hrsmth_i=numdayswk*4.3*op_numhrsday_i2 if impute_cat==1 & ///
  >  op_ind_hrsmth==-11 & helpsched==1
    27. replace op_hrsmth_i=numdaysmn*op_numhrsday_i2 if impute_cat==1 & ///
  >  op_ind_hrsmth==-11 & inlist(helpsched,2,-7,-8) & numdaysmn>=1
    28. replace op_hrsmth_i=numdayswk*4.3*op_numhrsday_i2 if impute_cat==1 & ///
```

```
 >   op_ind_hrsmth==-11 & inlist(helpsched,2,-7,-8) & ///
 >   numdaysmn<1 & numdayswk>=1
   29.
213 //impute where op_ind_hrsmth=-9, -12 or 9999, missing hours and days or <1hr/d
 > ay
214 gen ln_opdhrsmth_i=ln(op_hrsmth_i) if inlist(impute_cat,3,4)
   30. svy: reg ln_opdhrsmth_i `adjvars' if inlist(impute_cat,3,4)
   31. predict ln_opdhrsmth_i2 if impute_cat==1 & inlist(op_ind_hrsmth,-9,-12,9999
 > )
   32. gen op_hrsmth_i2=exp(ln_opdhrsmth_i2) if impute_cat==1 & inlist(op_ind_hrsm
 > th,-9,-12,9999)
   33. replace op_hrsmth_i=op_hrsmth_i2 if impute_cat==1 & inlist(op_ind_hrsmth,-9
 > ,-12,9999)
   34. replace op_hrsmth_i=-1 if ishelper~=1
   35.
215 //look at imputed hours per month by imputation category
216 di "where op_ind_hrsmth==-12"
   36. capture noisily: mean op_hrsmth_i if impute_cat==1 & op_ind_hrsmth==-12 [pw
 > eight=anfinwgt0]
   37. di "where op_ind_hrsmth==-11"
   38. mean op_hrsmth_i if impute_cat==1 & op_ind_hrsmth==-11 [pweight=anfinwgt0]
   39. di "where op_ind_hrsmth==-10"
   40. capture noisily: mean op_hrsmth_i if impute_cat==1 & op_ind_hrsmth==-10 [pw
 > eight=anfinwgt0]
   41. di "where op_ind_hrsmth==-9"
   42. mean op_hrsmth_i if impute_cat==1 & op_ind_hrsmth==-9 [pweight=anfinwgt0]
   43. di "where op_ind_hrsmth==9999"
   44. capture noisily: mean op_hrsmth_i if impute_cat==1 & op_ind_hrsmth==9999 [p
 > weight=anfinwgt0]
   45.
217 di "impute_cat==2"
   46. mean op_hrsmth_i if op_hrsmth_i~=-1 & impute_cat==2 [pweight=anfinwgt0]
   47. di "impute_cat==3"
   48. mean op_hrsmth_i if op_hrsmth_i~=-1 & impute_cat==3 [pweight=anfinwgt0]
   49. di "impute_cat==4"
   50. mean op_hrsmth_i if op_hrsmth_i~=-1 & impute_cat==4 [pweight=anfinwgt0]
   51.
218 save R`w'_hrs_imputed_added.dta,replace
   52.
219 }


        pweight: anfinwgt0
            VCE: linearized
    Single unit: missing
       Strata 1: varstrat
           SU 1: varunit
          FPC 1: <zero>
  (9,206 real changes made)
  (0 real changes made)
  (78 real changes made)
  (340 real changes made)
  (2,921 real changes made)
  (6,703 real changes made)
  (28,473 missing values generated)
  (running regress on estimation sample)

  Survey: Linear regression

  Number of strata   =        56          Number of obs    =        9,624
  Number of PSUs     =       112          Population size  =   41,048,905
                                          Design df        =           56
                                          F(  23,     34)  =       312.37
                                          Prob > F         =       0.0000
                                          R-squared        =       0.4322
```

```
-------------------------------------------------------------------------
             |               Linearized
ln_opnumda~i |    Coef.    Std. Err.      t     P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------
      spouse |  .5381677    .046348    11.61   0.000     .4453214    .631014
    otherrel |   .149535   .0315967     4.73   0.000     .0862391   .2128309
     regular |   .831632   .0285802    29.10   0.000      .774379    .888885
 yearnotmonth| -.3761144   .0607903    -6.19   0.000    -.4978919  -.2543369
      oneact | -.299946   .0357061     -8.40   0.000    -.3714739  -.2284181
       disab |  .1440928   .0308035     4.68   0.000     .0823859   .2057996
      outhlp |  .0318444   .0472518     0.67   0.503    -.0628123   .1265012
      insdhlp |  .0962042   .0550149     1.75   0.086    -.0140039   .2064122
      bedhlp | -.0000975   .0536042    -0.00   0.999    -.1074795   .1072846
     tkplhlp1 |  .0670854   .0278496     2.41   0.019     .0112959    .122875
     tkplhlp2 | -.1540346    .033249    -4.63   0.000    -.2206404  -.0874288
      launhlp |  .3127542   .0325358     9.61   0.000     .2475773   .3779312
      shophlp |  .2160253   .0354635     6.09   0.000     .1449833   .2870673
      mealhlp |  .2672827    .033151     8.06   0.000     .2008732   .3336922
      bankhlp |  .0363355   .0297278     1.22   0.227    -.0232164   .0958874
       eathlp |  .0845216   .0557201     1.52   0.135    -.0270992   .1961423
      bathhlp |   .117602    .044507     2.64   0.011     .0284439   .2067602
      toilhlp | -.118526   .0724795     -1.64   0.108     -.26372    .026668
      dreshlp |  .1345435   .0455844     2.95   0.005      .043227   .2258601
      medshlp |  .1643136   .0409529     4.01   0.000     .0822751   .2463521
     moneyhlp |  .0345251   .0457505     0.75   0.454    -.0571241   .1261744
       dochlp |   .025386   .0271638     0.93   0.354    -.0290296   .0798016
      insurhlp |  .0194013   .0707617     0.27   0.785    -.1223515   .1611541
        _cons |  1.068917   .0475103    22.50   0.000     .9737425   1.164092
-------------------------------------------------------------------------
```

(option xb assumed; fitted values)
(37,994 missing values generated)
(37,994 missing values generated)
(63 real changes made)
(40 real changes made)
(418 real changes made)
(9,206 real changes made)
(28,473 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

```
Number of strata   =        56          Number of obs    =        9,624
Number of PSUs     =       112          Population size   =   41,048,905
                                        Design df         =           56
                                        F(  23,    34)    =       100.39
                                        Prob > F          =       0.0000
                                        R-squared         =       0.1837
```

```
-------------------------------------------------------------------------
             |               Linearized
ln_opnumhr~i |    Coef.    Std. Err.      t     P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------
      spouse |  .0564317   .0456012     1.24   0.221    -.0349184   .1477819
    otherrel |  .0624205   .0255773     2.44   0.018     .0111831    .113658
     regular |  .3052847   .0329666     9.26   0.000     .2392447   .3713246
 yearnotmonth|  .0200923   .0458621     0.44   0.663    -.0717805   .1119651
      oneact | -.0130288    .034018    -0.38   0.703     -.081175   .0551174
       disab |   .11202   .0278872     4.02   0.000     .0561553   .1678848
      outhlp |  .0449579   .0330294     1.36   0.179     -.021208   .1111238
      insdhlp |  .1500529    .049026     3.06   0.003      .051842   .2482639
      bedhlp |  .2441647   .0611057     4.00   0.000     .1217552   .3665741
     tkplhlp1 |  .0420772   .0230763     1.82   0.074    -.0041503   .0883046
     tkplhlp2 |  .1003105   .0297705     3.37   0.001      .040673    .159948
      launhlp |  .2755963   .0233343    11.81   0.000      .228852   .3223405
      shophlp |  .0844578   .0284647     2.97   0.004     .0274361   .1414794
      mealhlp |  .0811433   .0264363     3.07   0.003      .028185   .1341015
      bankhlp |   .031007   .0263091     1.18   0.244    -.0216965   .0837106
       eathlp |  .0705038   .0564336     1.25   0.217    -.0425462   .1835539
      bathhlp |   .162383   .0469407     3.46   0.001     .0683495   .2564164
      toilhlp |   .196473   .0776547     2.53   0.014     .0409119   .3520341
      dreshlp |  .0401705   .0448144     0.90   0.374    -.0496035   .1299445
      medshlp |  .2475913   .0339665     7.29   0.000     .1795482   .3156344
```

```
    moneyhlp |  -.0775432   .0336455    -2.30   0.025    -.1449433   -.0101431
      dochlp |   .104771    .0308297     3.40   0.001     .0430118    .1665303
     insurhlp |  -.157476    .0649034    -2.43   0.018    -.2874931   -.0274589
       _cons |   .309135    .0444415     6.96   0.000     .220108     .3981621
--------------------------------------------------------------------------------
(option xb assumed; fitted values)
(37,844 missing values generated)
(37,844 missing values generated)
(60 real changes made)
(184 real changes made)
(9 real changes made)
(28,473 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

Number of strata   =        56          Number of obs       =        9,624
Number of PSUs     =       112          Population size     =   41,048,905
                                        Design df           =           56
                                        F(  23,     34)     =       241.30
                                        Prob > F            =       0.0000
                                        R-squared           =       0.4215


--------------------------------------------------------------------------------
             |             Linearized
ln_opdhrsm~i |    Coef.    Std. Err.      t     P>|t|     [95% Conf. Interval]
-------------+------------------------------------------------------------------
      spouse |   .592771    .0662401     8.95   0.000     .460076     .7254659
     otherrel |   .2109474   .0403331     5.23   0.000     .1301506    .2917442
     regular |  1.136243    .0499583    22.74   0.000    1.036165    1.236322
 yearnotmonth |  -.3609958   .0824226    -4.38   0.000    -.5261081   -.1958835
      oneact |  -.3134943   .0538532    -5.82   0.000    -.4213753   -.2056133
       disab |   .257884    .0457061     5.64   0.000     .1663236    .3494444
      outhlp |   .0763884   .0587189     1.30   0.199    -.0412396    .1940165
      insdhlp |   .2464405   .0823616     2.99   0.004     .0814503    .4114306
      bedhlp |   .2449405   .0955761     2.56   0.013     .0534785    .4364024
     tkplhlp1 |   .1095892   .0395119     2.77   0.008     .0304374    .188741
     tkplhlp2 |  -.0534629   .0504937    -1.06   0.294    -.154614    .0476882
      launhlp |   .5889723   .0419012    14.06   0.000     .5050342    .6729104
      shophlp |   .3009816   .0476974     6.31   0.000     .2054323    .3965309
      mealhlp |   .3496706   .0464583     7.53   0.000     .2566034    .4427379
      bankhlp |   .0670473   .0457148     1.47   0.148    -.0245305    .1586251
       eathlp |   .1550192   .0795567     1.95   0.056    -.0043521    .3143905
      bathhlp |   .2811085   .0763989     3.68   0.001     .1280632    .4341538
      toilhlp |   .0776095   .1176533     0.66   0.512    -.1580784    .3132975
      dreshlp |   .1752176   .0612364     2.86   0.006     .0525463    .2978889
      medshlp |   .4126512   .0618707     6.67   0.000     .2887093    .536593
     moneyhlp |  -.0438965   .0609966    -0.72   0.475    -.1660875    .0782945
       dochlp |   .1310672   .0449517     2.92   0.005     .0410181    .2211163
     insurhlp |  -.1385553   .112874     -1.23   0.225    -.3646691    .0875584
       _cons |  1.377777    .0681964    20.20   0.000    1.241164    1.514391
--------------------------------------------------------------------------------
(option xb assumed; fitted values)
(36,783 missing values generated)
(36,783 missing values generated)
(1,314 real changes made)
(26,500 real changes made)
where op_ind_hrsmth==-12
no observations
where op_ind_hrsmth==-11

Mean estimation                      Number of obs    =         253


-----------------------------------------------------------------
            |       Mean   Std. Err.     [95% Conf. Interval]
------------+----------------------------------------------------
 op_hrsmth_i |   45.92267   3.138149     39.74233    52.10301
-----------------------------------------------------------------
where op_ind_hrsmth==-10

Mean estimation                      Number of obs    =         103
```

```
------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |   8.574615   .9208114      6.74819    10.40104
------------------------------------------------------------
where op_ind_hrsmth==-9

Mean estimation                     Number of obs   =        638


------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |   15.02608   .8305304     13.39517    16.65699
------------------------------------------------------------
where op_ind_hrsmth==9999

Mean estimation                     Number of obs   =        676


------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |   13.75598    .830141     12.12601    15.38595
------------------------------------------------------------
impute_cat==2

Mean estimation                     Number of obs   =        303


------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |         0   (omitted)
------------------------------------------------------------
impute_cat==3

Mean estimation                     Number of obs   =        418


------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |   6.650921   .3211424     6.019661    7.282181
------------------------------------------------------------
impute_cat==4

Mean estimation                     Number of obs   =      9,206


------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+----------------------------------------------
  op_hrsmth_i |   74.28973   1.837924     70.68699    77.89247
------------------------------------------------------------
file R1_hrs_imputed_added.dta saved

       pweight: anfinwgt0
           VCE: linearized
   Single unit: missing
      Strata 1: varstrat
         SU 1: varunit
        FPC 1: <zero>
(7,502 real changes made)
(0 real changes made)
(85 real changes made)
(381 real changes made)
(2,495 real changes made)
(5,473 real changes made)
(29,977 missing values generated)
(running regress on estimation sample)

Survey: Linear regression
```

```
Number of strata    =          56          Number of obs     =        7,967
Number of PSUs      =         112          Population size   =   40,549,774
                                           Design df         =           56
                                           F(  23,     34)   =       273.74
                                           Prob > F          =       0.0000
                                           R-squared         =       0.4854

-------------------------------------------------------------------------------
              |             Linearized
ln_opnumda~i |     Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------------
      spouse |  .6174003   .0449314    13.74   0.000     .5273919    .7074088
    otherrel |  .1256399   .0281721     4.46   0.000     .0692043    .1820754
     regular |  .7145516   .0301197    23.72   0.000     .6542145    .7748887
 yearnotmonth| -.2759256   .0552299    -5.00   0.000    -.3865644   -.1652868
      oneact | -.3394039   .0378572    -8.97   0.000    -.4152409   -.2635669
       disab |  .1298073    .028996     4.48   0.000     .0717214    .1878932
      outhlp |  .0566786   .0320764     1.77   0.083    -.0075781    .1209353
      insdhlp|  .1523745   .0481907     3.16   0.003     .0558369    .2489121
      bedhlp | -.0086655   .0582687    -0.15   0.882    -.1253918    .1080607
    tkplhlp1 | -.0699267   .0312954    -2.23   0.029    -.1326188   -.0072345
    tkplhlp2 | -.2135425   .0330085    -6.47   0.000    -.2796664   -.1474186
     launhlp |  .2615633   .0287219     9.11   0.000     .2040263    .3191002
     shophlp |  .2055468   .0308275     6.67   0.000     .1437919    .2673017
     mealhlp |  .3148386   .0384666     8.18   0.000     .2377807    .3918965
     bankhlp |  .0851522   .0300027     2.84   0.006     .0250496    .1452549
      eathlp |  .0944416   .0458509     2.06   0.044     .0025912    .1862921
     bathhlp |  .0401069   .0453527     0.88   0.380    -.0507455    .1309593
     toilhlp | -.0850442   .0587285    -1.45   0.153    -.2026915    .0326031
     dreshlp |  .0546973   .0418169     1.31   0.196    -.0290721    .1384667
     medshlp |  .1557835   .0377292     4.13   0.000     .0802028    .2313642
    moneyhlp | -.0564254   .0435809    -1.29   0.201    -.1437285    .0308777
      dochlp |  .0519026   .0246118     2.11   0.039     .0025992    .1012059
     insurhlp| -.0182814   .0799765    -0.23   0.820    -.1784935    .1419307
       _cons |  1.282439   .0424484    30.21   0.000     1.197405    1.367474
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(37,944 missing values generated)
(37,944 missing values generated)
(0 real changes made)
(0 real changes made)
(466 real changes made)
(7,502 real changes made)
(29,976 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

Number of strata    =          56          Number of obs     =        7,968
Number of PSUs      =         112          Population size   =   40,556,183
                                           Design df         =           56
                                           F(  23,     34)   =        51.13
                                           Prob > F          =       0.0000
                                           R-squared         =       0.1809

-------------------------------------------------------------------------------
              |             Linearized
ln_opnumhr~i |     Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------------
      spouse | -.0258383   .0490153    -0.53   0.600    -.1240277    .0723511
    otherrel |  .0403781   .0306838     1.32   0.194    -.021089     .1018452
     regular |  .2522105   .0316505     7.97   0.000     .1888069    .3156141
 yearnotmonth| -.0881463   .0522804    -1.69   0.097    -.1928764    .0165839
      oneact | -.0223245   .0364083    -0.61   0.542    -.095259     .0506101
       disab |  .1084354    .036439     2.98   0.004     .0354394    .1814314
      outhlp |  .0850452   .0402367     2.11   0.039     .0044414    .1656489
      insdhlp|  .098705    .0469085     2.10   0.040     .004736     .1926739
      bedhlp |  .2974317   .0750291     3.96   0.000     .1471303    .4477332
    tkplhlp1 |  .0690091   .0352526     1.96   0.055    -.0016104    .1396286
    tkplhlp2 |  .0532661   .0330387     1.61   0.113    -.0129185    .1194507
     launhlp |  .2870727   .0308763     9.30   0.000     .2252201    .3489254
     shophlp |  .0763197   .0324347     2.35   0.022     .0113452    .1412941
```

```
    mealhlp |   .0836207   .0212575     3.93   0.000     .0410369    .1262045
    bankhlp |   .0376569   .0317728     1.19   0.241    -.0259917    .1013054
     eathlp |   .0455212   .0600505     0.76   0.452    -.0747744    .1658167
    bathhlp |  -.0131934   .0594477    -0.22   0.825    -.1322815    .1058947
    toilhlp |   .4056612   .0899065     4.51   0.000     .2255569    .5857656
    dreshlp |   .1041839   .0643222     1.62   0.111    -.024669     .2330367
    medshlp |   .1877458   .0442265     4.25   0.000     .0991495    .2763421
    moneyhlp |  -.0967339   .0355409    -2.72   0.009    -.1679308   -.0255369
     dochlp |   .1360582   .0272687     4.99   0.000     .0814325    .1906839
    insurhlp |  -.0653032   .0677158    -0.96   0.339    -.2009542    .0703479
      _cons |   .3997065   .0472892     8.45   0.000     .3049748    .4944383
-------------------------------------------------------------------------------
```

(option xb assumed; fitted values)
(37,724 missing values generated)
(37,724 missing values generated)
(50 real changes made)
(170 real changes made)
(0 real changes made)
(29,976 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

```
Number of strata   =         56            Number of obs    =        7,968
Number of PSUs     =        112            Population size  =   40,556,183
                                           Design df        =           56
                                           F(  23,     34)  =       178.00
                                           Prob > F         =       0.0000
                                           R-squared        =       0.4504
```

```
-------------------------------------------------------------------------------
              |               Linearized
ln_opdhrsm~i  |     Coef.    Std. Err.       t    P>|t|    [95% Conf. Interval]
--------------+----------------------------------------------------------------
     spouse  |   .5911696   .0755809     7.82   0.000     .4397629    .7425764
    otherrel |   .1652982   .041619      3.97   0.000     .0819253    .2486712
     regular |   .9730144   .0447618    21.74   0.000     .8833458    1.062683
 yearnotmonth |  -.3642374   .0818792    -4.45   0.000    -.5282611   -.2002136
      oneact |  -.3623332   .0593025    -6.11   0.000    -.4811303   -.243536
       disab |   .2385008   .0527728     4.52   0.000     .1327841    .3442174
      outhlp |   .140161    .051351      2.73   0.008     .0372926    .2430295
     insdhlp |   .2534953   .0660306     3.84   0.000     .1212201    .3857706
      bedhlp |   .2923894   .0947284     3.09   0.003     .1026257    .4821531
     tkplhlp1 |  -.0014302   .0525153    -0.03   0.978    -.106631     .1037707
     tkplhlp2 |  -.1604523   .0475711    -3.37   0.001    -.2557487   -.065156
     launhlp |   .5482365   .0459304    11.94   0.000     .4562268    .6402462
     shophlp |   .2814609   .0499342     5.64   0.000     .1814307    .3814911
     mealhlp |   .3982719   .0492188     8.09   0.000     .2996748    .496869
     bankhlp |   .1234857   .0466837     2.65   0.011     .0299671    .2170043
      eathlp |   .1429649   .0767003     1.86   0.068    -.0106843    .2966142
     bathhlp |   .0256077   .0799294     0.32   0.750    -.1345101    .1857255
     toilhlp |   .311989    .1246332     2.50   0.015     .0623188    .5616592
     dreshlp |   .1574869   .0843045     1.87   0.067    -.0113954    .3263692
     medshlp |   .3424555   .0622914     5.50   0.000     .2176709    .4672402
    moneyhlp |  -.1531767   .0598071    -2.56   0.013    -.2729847   -.0333686
      dochlp |   .1875215   .0399896     4.69   0.000     .1074126    .2676304
    insurhlp |  -.0834532   .1090395    -0.77   0.447    -.3018856    .1349791
      _cons |   1.683443   .0679383    24.78   0.000     1.547346    1.81954
-------------------------------------------------------------------------------
```

(option xb assumed; fitted values)
(36,607 missing values generated)
(36,607 missing values generated)
(1,337 real changes made)
(28,120 real changes made)
where op_ind_hrsmth==-12

Mean estimation   Number of obs   =   965

```
------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |   15.70768   .7069004      14.32043    17.09492
------------------------------------------------------------
where op_ind_hrsmth==-11

Mean estimation                    Number of obs   =        220


------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |    50.0305   3.211043       43.702      56.359
------------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9

Mean estimation                    Number of obs   =        372


------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |   17.59416   1.127487      15.3771    19.81123
------------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2

Mean estimation                    Number of obs   =        299


------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |         0   (omitted)
------------------------------------------------------------
impute_cat==3

Mean estimation                    Number of obs   =        466


------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |   4.002155   .2542403      3.502553    4.501757
------------------------------------------------------------
impute_cat==4

Mean estimation                    Number of obs   =      7,502


------------------------------------------------------------
            |      Mean   Std. Err.    [95% Conf. Interval]
------------+-----------------------------------------------
 op_hrsmth_i |   73.71425   1.905108       69.9797    77.44879
------------------------------------------------------------
file R2_hrs_imputed_added.dta saved

     pweight: anfinwgt0
         VCE: linearized
  Single unit: missing
     Strata 1: varstrat
         SU 1: varunit
        FPC 1: <zero>
(6,116 real changes made)
(0 real changes made)
(91 real changes made)
(300 real changes made)
(1,782 real changes made)
(4,725 real changes made)
(29,238 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56           Number of obs     =       6,507
Number of PSUs     =       112           Population size   =  39,798,563
                                         Design df         =          56
                                         F(  23,     34)   =      256.91
                                         Prob > F          =      0.0000
                                         R-squared         =      0.5006
```

ln_opnumda~i	Coef.	Linearized Std. Err.	t	P>|t|	[95% Conf. Interval]	
spouse	.5474741	.0453293	12.08	0.000	.4566686	.6382796
otherrel	.0491816	.0337506	1.46	0.151	-.018429	.1167922
regular	.61118	.0314532	19.43	0.000	.5481717	.6741883
yearnotmonth	-.3755535	.0703048	-5.34	0.000	-.5163909	-.2347162
oneact	-.3260701	.0416855	-7.82	0.000	-.4095762	-.242564
disab	.0996972	.035542	2.81	0.007	.0284979	.1708965
outhlp	.0581599	.0388551	1.50	0.140	-.0196762	.135996
insdhlp	.1594248	.0706018	2.26	0.028	.0179925	.3008572
bedhlp	.0923095	.0757025	1.22	0.228	-.0593407	.2439598
tkplhlp1	-.0281565	.0305808	-0.92	0.361	-.0894172	.0331041
tkplhlp2	-.2677557	.0414643	-6.46	0.000	-.3508186	-.1846928
launhlp	.2809537	.0363668	7.73	0.000	.2081023	.3538052
shophlp	.2382679	.0368349	6.47	0.000	.1644787	.312057
mealhlp	.3632821	.0370363	9.81	0.000	.2890894	.4374747
bankhlp	.0836157	.0319022	2.62	0.011	.019708	.1475234
eathlp	.1202538	.0505282	2.38	0.021	.0190336	.221474
bathhlp	.0327459	.0552101	0.59	0.555	-.0778532	.143345
toilhlp	.0115329	.0717873	0.16	0.873	-.1322742	.1553401
dreshlp	.0394282	.0554606	0.71	0.480	-.0716727	.1505292
medshlp	.1825903	.0411739	4.43	0.000	.1001091	.2650716
moneyhlp	-.0477062	.0420952	-1.13	0.262	-.1320329	.0366205
dochlp	-.0017881	.0311737	-0.06	0.954	-.0642365	.0606603
insurhlp	.1988462	.0766268	2.59	0.012	.0453442	.3523482
_cons	1.387046	.0488214	28.41	0.000	1.289245	1.484847

```
(option xb assumed; fitted values)
(35,745 missing values generated)
(35,745 missing values generated)
(0 real changes made)
(0 real changes made)
(391 real changes made)
(6,116 real changes made)
(29,238 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56           Number of obs     =       6,507
Number of PSUs     =       112           Population size   =  39,798,563
                                         Design df         =          56
                                         F(  23,     34)   =       44.01
                                         Prob > F          =      0.0000
                                         R-squared         =      0.1698
```

ln_opnumhr~i	Coef.	Linearized Std. Err.	t	P>|t|	[95% Conf. Interval]	
spouse	-.0784601	.0560593	-1.40	0.167	-.1907603	.0338401
otherrel	.0587035	.0310527	1.89	0.064	-.0035027	.1209096
regular	.1339523	.0445764	3.01	0.004	.044655	.2232495
yearnotmonth	-.1146862	.0646154	-1.77	0.081	-.2441263	.0147539
oneact	-.0291444	.0346617	-0.84	0.404	-.0985801	.0402913
disab	.0980952	.0255104	3.85	0.000	.0469917	.1491987
outhlp	.0672603	.0430111	1.56	0.124	-.0189013	.1534219
insdhlp	.0945743	.0764963	1.24	0.221	-.0586662	.2478148
bedhlp	.1516865	.0901682	1.68	0.098	-.0289421	.3323151
tkplhlp1	.0449282	.0303858	1.48	0.145	-.0159418	.1057982
tkplhlp2	.1352021	.0373799	3.62	0.001	.0603212	.2100831

```
    launhlp |   .3123969    .0285702    10.93   0.000    .2551639    .3696298
    shophlp |   .0578082      .03317     1.74   0.087   -.0086394    .1242558
    mealhlp |   .1269939    .0286869     4.43   0.000    .0695271    .1844606
    bankhlp |    .015884    .0285125     0.56   0.580   -.0412335    .0730015
     eathlp |   .1799637    .0710467     2.53   0.014      .03764    .3222874
    bathhlp |   .1845982    .0650902     2.84   0.006    .0542068    .3149896
    toilhlp |   .3482768    .1180198     2.95   0.005    .1118548    .5846988
    dreshlp |  -.0373171    .0722364    -0.52   0.607    -.182024    .1073897
    medshlp |   .1849502    .0568245     3.25   0.002     .071117    .2987833
   moneyhlp |   .0162145    .0418607     0.39   0.700   -.0676425    .1000715
     dochlp |   .1541263     .031081     4.96   0.000    .0918635     .216389
    insurhlp |  -.0343378    .0799739    -0.43   0.669   -.1945448    .1258691
      _cons |   .4266783    .0464004     9.20   0.000    .3337271    .5196295
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(35,421 missing values generated)
(35,421 missing values generated)
(73 real changes made)
(250 real changes made)
(1 real change made)
(29,238 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56              Number of obs    =       6,507
Number of PSUs     =       112              Population size  =  39,798,563
                                            Design df        =          56
                                            F(  23,    34)   =      168.19
                                            Prob > F         =      0.0000
                                            R-squared        =      0.4667
```

		Linearized					
ln_opdhrsm~i	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
spouse	.4699376	.0753008	6.24	0.000	.319092	.6207832
otherrel	.1082735	.0500123	2.16	0.035	.0080869	.2084602
regular	.7525336	.0562962	13.37	0.000	.6397588	.8653084
yearnotmonth	-.4907115	.09781	-5.02	0.000	-.6866484	-.2947746
oneact	-.3552462	.0590125	-6.02	0.000	-.4734625	-.23703
disab	.1973663	.0420152	4.70	0.000	.1131998	.2815328
outhlp	.1254505	.0595258	2.11	0.040	.0062059	.2446951
insdhlp	.2539254	.1109227	2.29	0.026	.0317205	.4761302
bedhlp	.2440014	.1196328	2.04	0.046	.0043482	.4836546
tkplhlp1	.0164508	.045814	0.36	0.721	-.0753257	.1082274
tkplhlp2	-.1322632	.0576009	-2.30	0.025	-.2476517	-.0168747
launhlp	.5942119	.0523902	11.34	0.000	.4892617	.6991621
shophlp	.296414	.0518385	5.72	0.000	.192569	.4002589
mealhlp	.4906347	.0492335	9.97	0.000	.392008	.5892613
bankhlp	.0980474	.0458533	2.14	0.037	.0061922	.1899026
eathlp	.2999311	.0847334	3.54	0.001	.1301898	.4696725
bathhlp	.2172211	.083759	2.59	0.012	.0494318	.3850105
toilhlp	.3594674	.13085	2.75	0.008	.0973433	.6215915
dreshlp	.0019321	.1051864	0.02	0.985	-.2087817	.2126459
medshlp	.3653421	.0782816	4.67	0.000	.2085253	.5221589
moneyhlp	-.031489	.0563505	-0.56	0.579	-.1443727	.0813947
dochlp	.1542615	.0491478	3.14	0.003	.0558067	.2527164
insurhlp	.1643042	.1188624	1.38	0.172	-.0738058	.4024141
_cons	1.813121	.078581	23.07	0.000	1.655704	1.970538

```
(option xb assumed; fitted values)
(34,473 missing values generated)
(34,473 missing values generated)
(1,272 real changes made)
(27,332 real changes made)
where op_ind_hrsmth==-12
```

Mean estimation   Number of obs   =   714

```
---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |   14.64018    .7360239       13.19514    16.08521
---------------------------------------------------------------
where op_ind_hrsmth==-11

Mean estimation                    Number of obs    =        324


---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |   55.27517    3.055636       49.26371    61.28663
---------------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9

Mean estimation                    Number of obs    =        558


---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |   18.73445    1.264598       16.25049    21.21841
---------------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2

Mean estimation                    Number of obs    =        310


---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |        0   (omitted)
---------------------------------------------------------------
impute_cat==3

Mean estimation                    Number of obs    =        391


---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |   5.054444    .3159362       4.433293    5.675596
---------------------------------------------------------------
impute_cat==4

Mean estimation                    Number of obs    =      6,116


---------------------------------------------------------------
             |      Mean    Std. Err.      [95% Conf. Interval]
-------------+-------------------------------------------------
  op_hrsmth_i |   67.19971    1.88129        63.51172    70.8877
---------------------------------------------------------------
file R3_hrs_imputed_added.dta saved

     pweight: anfinwgt0
         VCE: linearized
  Single unit: missing
     Strata 1: varstrat
         SU 1: varunit
        FPC 1: <zero>
(4,921 real changes made)
(0 real changes made)
(75 real changes made)
(307 real changes made)
(1,451 real changes made)
(3,852 real changes made)
(27,713 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata    =        56          Number of obs    =       5,303
Number of PSUs      =       112          Population size  =  37,609,074
                                         Design df        =          56
                                         F(  23,      34) =      170.75
                                         Prob > F         =      0.0000
                                         R-squared        =      0.4720
```

```
-----------------------------------------------------------------------
                |             Linearized
ln_opnumda~i |    Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
-------------+---------------------------------------------------------
      spouse |   .5389448   .0489551    11.01   0.000     .440876    .6370135
    otherrel |    .096415   .0306095     3.15   0.003    .0350968    .1577331
     regular |   .5930351   .0343051    17.29   0.000    .5243137    .6617564
 yearnotmonth |  -.1442419   .0828231    -1.74   0.087   -.3101564    .0216727
      oneact |  -.2521449   .0432321    -5.83   0.000   -.3387492   -.1655407
       disab |   .1344615   .0363075     3.70   0.000    .0617289    .2071941
      outhlp |   .0362634   .0455839     0.80   0.430   -.0550521    .1275788
      insdhlp |   .1198898   .0662082     1.81   0.076   -.0127412    .2525209
      bedhlp |   .0289062   .0808411     0.36   0.722   -.1330379    .1908503
    tkplhlp1 |   .0042865    .031816     0.13   0.893   -.0594486    .0680216
    tkplhlp2 |  -.2276146   .0409083    -5.56   0.000   -.3095637   -.1456655
     launhlp |   .3163341   .0408879     7.74   0.000    .2344257    .3982425
     shophlp |   .1972409   .0429879     4.59   0.000    .1111259     .283356
     mealhlp |   .4014343   .0369929    10.85   0.000    .3273286      .47554
     bankhlp |   .1075383   .0410596     2.62   0.011     .025286    .1897906
      eathlp |  -.0028902   .0836913    -0.03   0.973   -.1705441    .1647636
     bathhlp |    .057077   .0657812     0.87   0.389   -.0746985    .1888525
     toilhlp |   .1309503   .0844888     1.55   0.127   -.0383011    .3002016
     dreshlp |   .1287687   .0580887     2.22   0.031    .0124031    .2451342
     medshlp |   .1026022   .0405006     2.53   0.014    .0214697    .1837346
     moneyhlp |   .0180766   .0442788     0.41   0.685   -.0706245    .1067777
      dochlp |   .1073062   .0337808     3.18   0.002    .0396351    .1749773
     insurhlp |  -.0738072   .0732966    -1.01   0.318    -.220638    .0730235
       _cons |   1.264653   .0553879    22.83   0.000    1.153697    1.375608
-----------------------------------------------------------------------
```
(option xb assumed; fitted values)
(33,016 missing values generated)
(33,016 missing values generated)
(0 real changes made)
(0 real changes made)
(382 real changes made)
(4,921 real changes made)
(27,713 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

```
Number of strata    =        56          Number of obs    =       5,303
Number of PSUs      =       112          Population size  =  37,609,074
                                         Design df        =          56
                                         F(  23,      34) =       30.96
                                         Prob > F         =      0.0000
                                         R-squared        =      0.2142
```

```
-----------------------------------------------------------------------
                |             Linearized
ln_opnumhr~i |    Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
-------------+---------------------------------------------------------
      spouse |  -.1101905   .0513319    -2.15   0.036   -.2130207   -.0073603
    otherrel |   .1213047   .0408604     2.97   0.004    .0394515     .203158
     regular |   .1838924   .0353226     5.21   0.000    .1131329     .254652
 yearnotmonth |   -.155088   .0745429    -2.08   0.042   -.3044153   -.0057607
      oneact |   .0035548   .0421986     0.08   0.933   -.0809791    .0880887
       disab |   .0621988   .0335155     1.86   0.069   -.0049407    .1293383
      outhlp |   .0564042     .03924     1.44   0.156    -.022203    .1350115
      insdhlp |  -.0307943   .0646201    -0.48   0.636   -.1602438    .0986553
      bedhlp |   .2828585   .1059707     2.67   0.010    .0705737    .4951432
    tkplhlp1 |   .0483347    .026793     1.80   0.077   -.0053381    .1020076
    tkplhlp2 |   .1109742   .0356256     3.12   0.003    .0396076    .1823407
```

```
    launhlp |   .245514    .0359457     6.83   0.000     .173506    .3175219
    shophlp |  .0617318    .0251383     2.46   0.017    .0113737    .1120899
    mealhlp |  .1495413    .0306292     4.88   0.000    .0881837    .2108989
    bankhlp |   .061585    .0291042     2.12   0.039    .0032823    .1198877
     eathlp |  .1811966    .0728149     2.49   0.016    .0353307    .3270624
    bathhlp |  .0864734    .0920411     0.94   0.352   -.0979072    .2708539
    toilhlp |  .3410338    .1026354     3.32   0.002    .1354304    .5466372
    dreshlp |  .2159683    .0722333     2.99   0.004    .0712676     .360669
    medshlp |  .3249501    .0538953     6.03   0.000    .2169848    .4329153
    moneyhlp |  -.091109    .0443013    -2.06   0.044   -.1798552   -.0023628
     dochlp |  .1375804    .0335154     4.10   0.000     .070441    .2047199
    insurhlp | -.0311579    .0778298    -0.40   0.690   -.1870697    .1247539
      _cons |  .3555255    .0637591     5.58   0.000    .2278006    .4832504
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(32,779 missing values generated)
(32,779 missing values generated)
(55 real changes made)
(182 real changes made)
(0 real changes made)
(27,713 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

Number of strata   =        56          Number of obs     =       5,303
Number of PSUs     =       112          Population size   =  37,609,074
                                        Design df         =          56
                                        F(  23,     34)   =      130.75
                                        Prob > F          =      0.0000
                                        R-squared         =      0.4605


-------------------------------------------------------------------------------
             |             Linearized
ln_opdhrsm~i |    Coef.    Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------------
     spouse |   .428818    .0785376     5.46   0.000    .2714883    .5861478
   otherrel |  .2178294    .0561204     3.88   0.000    .1054067    .3302521
    regular |   .783394    .0475008    16.49   0.000    .6882385    .8785495
yearnotmonth | -.2997251    .1275116    -2.35   0.022   -.5551615   -.0442888
     oneact | -.2486415    .0624875    -3.98   0.000    -.373819    -.123464
      disab |  .1966733    .0486886     4.04   0.000    .0991382    .2942083
     outhlp |  .0926853    .0634405     1.46   0.150   -.0344013    .2197719
     insdhlp |  .0891692    .0933495     0.96   0.344   -.0978322    .2761706
     bedhlp |  .3116923     .127804     2.44   0.018    .0556701    .5677145
   tkplhlp1 |  .0526695    .0443091     1.19   0.240   -.0360924    .1414314
   tkplhlp2 | -.1165579    .0555297    -2.10   0.040   -.2277972   -.0053186
    launhlp |   .561951    .0625532     8.98   0.000    .4366419    .6872601
    shophlp |   .259002    .0507931     5.10   0.000    .1572512    .3607527
    mealhlp |  .5510027    .0508254    10.84   0.000    .4491872    .6528183
    bankhlp |  .1690593    .0527261     3.21   0.002    .0634362    .2746824
     eathlp |  .1782567    .1231032     1.45   0.153   -.0683486     .424862
    bathhlp |  .1435325    .1318954     1.09   0.281   -.1206858    .4077508
    toilhlp |   .472151    .1410642     3.35   0.001    .1895654    .7547366
    dreshlp |  .3448332    .1050022     3.28   0.002    .1344884     .555178
    medshlp |  .4276202    .0720038     5.94   0.000    .2833792    .5718612
    moneyhlp | -.0731165    .0667011    -1.10   0.278   -.2067348    .0605018
     dochlp |  .2448772    .0488731     5.01   0.000    .1469726    .3427817
    insurhlp | -.1049379    .1200768    -0.87   0.386   -.3454807    .1356049
      _cons |  1.620066    .0872828    18.56   0.000    1.445217    1.794914
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(31,802 missing values generated)
(31,802 missing values generated)
(1,214 real changes made)
(25,931 real changes made)
where op_ind_hrsmth==-12

Mean estimation                         Number of obs     =         667
```

```
----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |   13.75362  .7897666      12.20289    15.30435
----------------------------------------------------------
where op_ind_hrsmth==-11

Mean estimation                    Number of obs   =        237


----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |    45.3443  2.922556      39.58667    51.10193
----------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9

Mean estimation                    Number of obs   =        547


----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |   19.83486  1.407003      17.07106    22.59866
----------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2

Mean estimation                    Number of obs   =        331


----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |         0  (omitted)
----------------------------------------------------------
impute_cat==3

Mean estimation                    Number of obs   =        382


----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |   4.280268  .2808654      3.728028    4.832509
----------------------------------------------------------
impute_cat==4

Mean estimation                    Number of obs   =      4,921


----------------------------------------------------------
           |      Mean   Std. Err.    [95% Conf. Interval]
-----------+----------------------------------------------
 op_hrsmth_i |   65.36183  2.050624       61.3417    69.38197
----------------------------------------------------------
file R4_hrs_imputed_added.dta saved

      pweight: anfinwgt0
          VCE: linearized
  Single unit: missing
     Strata 1: varstrat
         SU 1: varunit
        FPC 1: <zero>
(7,975 real changes made)
(0 real changes made)
(138 real changes made)
(597 real changes made)
(2,256 real changes made)
(6,454 real changes made)
(43,575 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56          Number of obs     =        8,710
Number of PSUs     =       112          Population size   =   41,615,766
                                        Design df         =           56
                                        F(  23,     34)   =       187.57
                                        Prob > F          =       0.0000
                                        R-squared         =       0.4558
```

ln_opnumda~i	Coef.	Linearized Std. Err.	t	P>|t|	[95% Conf. Interval]	
spouse	.5901718	.0470392	12.55	0.000	.4959409	.6844026
otherrel	.0918411	.0315069	2.91	0.005	.0287252	.1549569
regular	.6664401	.0354237	18.81	0.000	.5954779	.7374023
yearnotmonth	-.3519573	.0707579	-4.97	0.000	-.4937024	-.2102122
oneact	-.3246226	.0447085	-7.26	0.000	-.4141846	-.2350606
disab	.0858568	.0276459	3.11	0.003	.0304754	.1412382
outhlp	.1258303	.0365956	3.44	0.001	.0525205	.19914
insdhlp	.171046	.0500358	3.42	0.001	.0708122	.2712798
bedhlp	-.0309755	.0601449	-0.52	0.609	-.1514602	.0895093
tkplhlp1	-.0348915	.0309127	-1.13	0.264	-.096817	.0270339
tkplhlp2	-.2182365	.0324091	-6.73	0.000	-.2831598	-.1533133
launhlp	.2212987	.0289501	7.64	0.000	.1633048	.2792927
shophlp	.1886661	.0386028	4.89	0.000	.1113353	.2659969
mealhlp	.3633231	.0386587	9.40	0.000	.2858804	.4407657
bankhlp	.0741053	.0331238	2.24	0.029	.0077503	.1404603
eathlp	-.0494396	.0531744	-0.93	0.356	-.1559608	.0570816
bathhlp	.1375993	.0511825	2.69	0.009	.0350684	.2401303
toilhlp	.1010186	.0616165	1.64	0.107	-.0224142	.2244513
dreshlp	-.0043073	.0541041	-0.08	0.937	-.1126908	.1040762
medshlp	.2167914	.0387892	5.59	0.000	.1390872	.2944956
moneyhlp	-.0612134	.0492585	-1.24	0.219	-.1598901	.0374632
dochlp	.0747689	.0290065	2.58	0.013	.016662	.1328759
insurhlp	.0287134	.0779589	0.37	0.714	-.127457	.1848838
_cons	1.294865	.0541537	23.91	0.000	1.186382	1.403348

```
(option xb assumed; fitted values)
(52,285 missing values generated)
(52,285 missing values generated)
(0 real changes made)
(0 real changes made)
(735 real changes made)
(7,975 real changes made)
(43,575 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56          Number of obs     =        8,710
Number of PSUs     =       112          Population size   =   41,615,766
                                        Design df         =           56
                                        F(  23,     34)   =        55.46
                                        Prob > F          =       0.0000
                                        R-squared         =       0.1760
```

ln_opnumhr~i	Coef.	Linearized Std. Err.	t	P>|t|	[95% Conf. Interval]	
spouse	-.0735505	.0346331	-2.12	0.038	-.1429289	-.0041722
otherrel	.1056342	.0292972	3.61	0.001	.0469449	.1643234
regular	.1784674	.0342604	5.21	0.000	.1098356	.2470993
yearnotmonth	.0818495	.0551601	1.48	0.143	-.0286493	.1923484
oneact	-.0062206	.0309995	-0.20	0.842	-.0683201	.0558789
disab	.0916614	.0336252	2.73	0.009	.024302	.1590207
outhlp	.1589277	.0406539	3.91	0.000	.0774882	.2403673
insdhlp	.1180209	.0754303	1.56	0.123	-.0330843	.269126
bedhlp	.1163501	.0701736	1.66	0.103	-.0242244	.2569246
tkplhlp1	.0610301	.029125	2.10	0.041	.0026857	.1193744
tkplhlp2	.0921225	.0317066	2.91	0.005	.0286066	.1556383

```
    launhlp |   .3608729    .0320747    11.25    0.000     .2966196    .4251263
    shophlp |   .0894899    .0284236     3.15    0.003     .0325506    .1464291
    mealhlp |   .0941647    .0241793     3.89    0.000     .0457278    .1426016
    bankhlp |   .0576135    .0326715     1.76    0.083    -.0078353    .1230624
     eathlp |   .2546369    .0632041     4.03    0.000     .1280239    .3812499
    bathhlp |   .0965305    .0588548     1.64    0.107    -.0213698    .2144308
    toilhlp |   .2220798    .0779605     2.85    0.006     .0659062    .3782534
    dreshlp |  -.0185309    .0526004    -0.35    0.726    -.1239023    .0868404
    medshlp |   .2399484    .0429303     5.59    0.000     .1539487    .3259482
   moneyhlp |  -.1397465    .0390276    -3.58    0.001    -.2179282   -.0615647
     dochlp |   .0841851    .0281952     2.99    0.004     .0277033    .1406668
    insurhlp |   .0482054    .0735328     0.66    0.515    -.0990984    .1955093
       _cons |    .312669    .0405062     7.72    0.000     .2315253    .3938126
------------------------------------------------------------------------------
(option xb assumed; fitted values)
(51,952 missing values generated)
(51,952 missing values generated)
(74 real changes made)
(259 real changes made)
(0 real changes made)
(43,575 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

Number of strata    =         56          Number of obs    =       8,710
Number of PSUs      =        112          Population size  =  41,615,766
                                          Design df        =          56
                                          F(  23,    34)   =      154.06
                                          Prob > F         =      0.0000
                                          R-squared        =      0.4288

------------------------------------------------------------------------------
              |            Linearized
 ln_opdhrsm~i |    Coef.    Std. Err.      t     P>|t|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
       spouse |   .5165689     .066226     7.80    0.000     .3839022    .6492356
     otherrel |   .1975234    .0452049     4.37    0.000     .106967     .2880798
      regular |   .8513224    .0532887    15.98    0.000     .7445723    .9580725
 yearnotmonth |  -.2701199    .0979108    -2.76    0.008    -.4662588   -.073981
       oneact |   -.330873    .0554253    -5.97    0.000    -.4419033   -.2198428
        disab |   .1775713     .047168     3.76    0.000     .0830824    .2720602
       outhlp |   .2847804    .0601092     4.74    0.000     .1643673    .4051935
       insdhlp |   .2890824    .0984749     2.94    0.005     .0918134    .4863514
       bedhlp |   .0854399    .0911903     0.94    0.353    -.0972361     .268116
     tkplhlp1 |   .0261897    .0457795     0.57    0.570    -.0655176    .1178971
     tkplhlp2 |  -.1261048     .052533    -2.40    0.020    -.2313411   -.0208685
      launhlp |   .5822857    .0475575    12.24    0.000     .4870165    .6775549
      shophlp |   .2781804     .049924     5.57    0.000     .1781706    .3781903
      mealhlp |   .4575489     .048926     9.35    0.000     .3595384    .5555595
      bankhlp |   .1317121    .0441537     2.98    0.004     .0432617    .2201625
       eathlp |   .2052039    .0836094     2.45    0.017     .0377142    .3726936
      bathhlp |   .2341517    .0851049     2.75    0.008      .063666    .4046374
      toilhlp |   .3231762    .1074926     3.01    0.004     .1078428    .5385097
      dreshlp |  -.0228211    .0892808    -0.26    0.799    -.2016721    .1560298
      medshlp |   .4567322     .056811     8.04    0.000     .3429262    .5705382
     moneyhlp |   -.200997    .0727146    -2.76    0.008    -.3466619   -.0553322
       dochlp |   .1589161      .03945     4.03    0.000     .0798883    .2379439
      insurhlp |   .0770341      .10422     0.74    0.463    -.1317435    .2858118
        _cons |   1.607429    .0788843    20.38    0.000     1.449405    1.765453
------------------------------------------------------------------------------
(option xb assumed; fitted values)
(49,478 missing values generated)
(49,478 missing values generated)
(2,807 real changes made)
(39,861 real changes made)
where op_ind_hrsmth==-12

Mean estimation                     Number of obs    =       1,800
```

```
---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |   16.39445    .550631      15.31451    17.47439
---------------------------------------------------------------
where op_ind_hrsmth==-11
```

```
Mean estimation                  Number of obs    =          333


---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |   47.38086   2.702981      42.06373    52.69799
---------------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9
```

```
Mean estimation                  Number of obs    =        1,007


---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |   20.63111   1.104936      18.46287    22.79936
---------------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2
```

```
Mean estimation                  Number of obs    =          574


---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |         0   (omitted)
---------------------------------------------------------------
impute_cat==3
```

```
Mean estimation                  Number of obs    =          735


---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |   4.606265   .2427935      4.129613    5.082918
---------------------------------------------------------------
impute_cat==4
```

```
Mean estimation                  Number of obs    =        7,975


---------------------------------------------------------------
             |      Mean    Std. Err.    [95% Conf. Interval]
-------------+-------------------------------------------------
 op_hrsmth_i |   66.99769   1.720874      63.62433    70.37106
---------------------------------------------------------------
file R5_hrs_imputed_added.dta saved

      pweight: anfinwgt0
          VCE: linearized
  Single unit: missing
     Strata 1: varstrat
        SU 1: varunit
        FPC 1: <zero>
(7,801 real changes made)
(0 real changes made)
(120 real changes made)
(534 real changes made)
(2,188 real changes made)
(6,267 real changes made)
(42,719 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56          Number of obs    =       8,455
Number of PSUs     =       112          Population size  =  47,201,947
                                        Design df        =          56
                                        F( 23,    34)    =      277.20
                                        Prob > F         =      0.0000
                                        R-squared        =      0.4739
```

```
-----------------------------------------------------------------------------
               |             Linearized
ln_opnumda~i |    Coef.    Std. Err.      t    P>|t|    [95% Conf. Interval]
-------------+---------------------------------------------------------------
      spouse |  .5836988   .0489555    11.92   0.000    .4856292    .6817684
    otherrel |  .0912285   .0330304     2.76   0.008    .0250607    .1573963
     regular |  .6535479   .0265101    24.65   0.000    .6004417     .706654
 yearnotmonth| -.3439878   .0631898    -5.44   0.000   -.4705722   -.2174035
      oneact | -.2759188   .0351823    -7.84   0.000   -.3463975   -.2054401
       disab |  .0762751   .0361666     2.11   0.039    .0038247    .1487254
      outhlp |  .1324174   .0443849     2.98   0.004    .0435036    .2213311
      insdhlp|  .0510626   .0536515     0.95   0.345   -.0564143    .1585394
      bedhlp |  .0631319   .0665301     0.95   0.347   -.0701439    .1964078
    tkplhlp1 | -.0497547   .0276406    -1.80   0.077   -.1051255    .0056161
    tkplhlp2 | -.1681828   .0395341    -4.25   0.000   -.2473792   -.0889864
     launhlp |  .3270084   .0332194     9.84   0.000     .260462    .3935549
     shophlp |  .1905923   .0345738     5.51   0.000    .1213327    .2598519
     mealhlp |  .3534543   .0273488    12.92   0.000     .298668    .4082406
     bankhlp |  .0993146    .035277     2.82   0.007    .0286463     .169983
      eathlp | -.0359025   .0776719    -0.46   0.646   -.1914981     .119693
     bathhlp |  .1949194   .0482308     4.04   0.000    .0983016    .2915372
     toilhlp |  .0027473   .0697207     0.04   0.969   -.1369201    .1424147
     dreshlp | -.0097648   .0460138    -0.21   0.833   -.1019417     .082412
     medshlp |  .1743252   .0378033     4.61   0.000    .0985962    .2500542
     moneyhlp| -.0836059   .0462812    -1.81   0.076   -.1763183    .0091064
      dochlp |  .0796669   .0305901     2.60   0.012    .0183876    .1409463
     insurhlp| -.0144977   .0999017    -0.15   0.885   -.2146249    .1856295
        _cons|   1.30037   .0608231    21.38   0.000    1.178526    1.422213
-----------------------------------------------------------------------------
```

(option xb assumed; fitted values)
(51,174 missing values generated)
(51,174 missing values generated)
(0 real changes made)
(0 real changes made)
(654 real changes made)
(7,801 real changes made)
(42,719 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

```
Number of strata   =        56          Number of obs    =       8,455
Number of PSUs     =       112          Population size  =  47,201,947
                                        Design df        =          56
                                        F( 23,    34)    =       60.61
                                        Prob > F         =      0.0000
                                        R-squared        =      0.1761
```

```
-----------------------------------------------------------------------------
               |             Linearized
ln_opnumhr~i |    Coef.    Std. Err.      t    P>|t|    [95% Conf. Interval]
-------------+---------------------------------------------------------------
      spouse | -.1299766   .0410499    -3.17   0.002   -.2122095   -.0477437
    otherrel |  .1152326   .0311721     3.70   0.000    .0527874    .1776779
     regular |  .1300361    .029995     4.34   0.000     .069949    .1901233
 yearnotmonth| -.0229723   .0771563    -0.30   0.767    -.177535    .1315905
      oneact | -.0009082   .0315505    -0.03   0.977   -.0641115    .0622951
       disab |  .0843415   .0310525     2.72   0.009     .022136    .1465471
      outhlp |  .1594653   .0456161     3.50   0.001    .0680851    .2508454
      insdhlp| -.011275    .0704221    -0.16   0.873   -.1523475    .1297974
      bedhlp |  .098848    .0816599     1.21   0.231   -.0647364    .2624324
    tkplhlp1 |  .0166771   .0258651     0.64   0.522   -.0351369    .0684911
    tkplhlp2 |  .1202365     .03971     3.03   0.004    .0406878    .1997852
```

```
    launhlp |   .3086816    .0263869    11.70   0.000    .2558222    .3615409
    shophlp |   .0913675    .0290228     3.15   0.003     .033228    .1495071
    mealhlp |   .0897481    .0286585     3.13   0.003    .0323383    .1471578
    bankhlp |   .0541709    .0263996     2.05   0.045    .0012862    .1070555
     eathlp |   .2667489    .0761807     3.50   0.001    .1141406    .4193572
    bathhlp |   .1730348    .0612966     2.82   0.007     .050243    .2958266
    toilhlp |   .4120504    .0888434     4.64   0.000    .2340757    .5900251
    dreshlp |  -.0012076    .0503741    -0.02   0.981   -.1021192    .0997039
    medshlp |   .1952447    .0451671     4.32   0.000     .104764    .2857253
   moneyhlp |  -.1110495    .0399289    -2.78   0.007   -.1910368   -.0310623
     dochlp |   .1519556    .0307164     4.95   0.000    .0904233    .2134878
    insurhlp |  -.1920495   .0620735    -3.09   0.003   -.3163976   -.0677014
      _cons |   .3512299    .0475262     7.39   0.000    .2560236    .4464363
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(50,882 missing values generated)
(50,882 missing values generated)
(64 real changes made)
(228 real changes made)
(0 real changes made)
(42,719 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56              Number of obs     =       8,455
Number of PSUs     =       112              Population size   =  47,201,947
                                            Design df         =          56
                                            F(  23,     34)   =      333.81
                                            Prob > F          =      0.0000
                                            R-squared         =      0.4369
```

```
-------------------------------------------------------------------------------
             |             Linearized
ln_opdhrsm~i |    Coef.    Std. Err.     t    P>|t|    [95% Conf. Interval]
-------------+-----------------------------------------------------------------
      spouse |   .4536604    .073592      6.16   0.000     .306238    .6010829
    otherrel |   .2065249   .0521263      3.96   0.000    .1021034    .3109464
     regular |    .790101   .0390671     20.22   0.000    .7118402    .8683617
yearnotmonth |  -.3670133   .0976008     -3.76   0.000   -.5625312   -.1714954
      oneact |  -.2768939    .045739     -6.05   0.000   -.3685201   -.1852677
       disab |   .1605451   .0484559      3.31   0.002    .0634761     .257614
      outhlp |   .2920174   .0586137      4.98   0.000    .1746001    .4094347
     insdhlp |   .0397509   .0879909      0.45   0.653    -.136516    .2160179
      bedhlp |   .1619602   .1083996      1.49   0.141   -.0551904    .3791108
    tkplhlp1 |  -.0330361   .0360162     -0.92   0.363   -.1051852     .039113
    tkplhlp2 |  -.0478953   .0601322     -0.80   0.429   -.1683546    .0725641
     launhlp |   .6358293   .0475979     13.36   0.000    .5404793    .7311793
     shophlp |   .2820104   .0514042      5.49   0.000    .1790355    .3849853
     mealhlp |   .4432068   .0406994     10.89   0.000    .3616762    .5247375
     bankhlp |   .1534428     .05023      3.05   0.003      .05282    .2540656
      eathlp |   .2308379   .1271797      1.82   0.075   -.0239336    .4856094
     bathhlp |   .3680337   .0732102      5.03   0.000    .2213761    .5146913
     toilhlp |   .4149913   .1158009      3.58   0.001    .1830141    .6469684
     dreshlp |  -.0109794   .0757266     -0.14   0.885   -.1626781    .1407193
     medshlp |   .3694551   .0514916      7.18   0.000    .2663051    .4726052
    moneyhlp |  -.1946445   .0650765     -2.99   0.004   -.3250084   -.0642806
      dochlp |   .2316588   .0406575      5.70   0.000    .1502121    .3131055
    insurhlp |  -.2065758   .1260639     -1.64   0.107   -.4591122    .0459606
       _cons |    1.65155   .0867992     19.03   0.000     1.47767     1.82543
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(49,310 missing values generated)
(49,310 missing values generated)
(1,864 real changes made)
(40,006 real changes made)
where op_ind_hrsmth==-12
```

Mean estimation   Number of obs   =   1,321

```
----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |   14.60043   .5986056     13.42611    15.77475
----------------------------------------------------------
where op_ind_hrsmth==-11

Mean estimation                   Number of obs    =        292


----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |   51.84578   2.788372     46.35785    57.33371
----------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9

Mean estimation                   Number of obs    =        543


----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |   17.20306   1.063947     15.11309    19.29302
----------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2

Mean estimation                   Number of obs    =        557


----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |         0   (omitted)
----------------------------------------------------------
impute_cat==3

Mean estimation                   Number of obs    =        654


----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |   4.459655   .2562381     3.956505    4.962805
----------------------------------------------------------
impute_cat==4

Mean estimation                   Number of obs    =      7,801


----------------------------------------------------------
             |     Mean    Std. Err.    [95% Conf. Interval]
-------------+--------------------------------------------
  op_hrsmth_i |   58.85084   1.502888     55.90478    61.79691
----------------------------------------------------------
file R6_hrs_imputed_added.dta saved

      pweight: anfinwgt0
          VCE: linearized
  Single unit: missing
      Strata 1: varstrat
          SU 1: varunit
         FPC 1: <zero>
(6,416 real changes made)
(0 real changes made)
(96 real changes made)
(489 real changes made)
(1,691 real changes made)
(5,310 real changes made)
(42,064 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =        56            Number of obs     =       7,001
Number of PSUs     =       112            Population size   =  42,621,876
                                          Design df         =          56
                                          F(  23,     34)   =      203.57
                                          Prob > F          =      0.0000
                                          R-squared         =      0.4637
```

```
------------------------------------------------------------------------------
             |             Linearized
ln_opnumda~i |     Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      spouse |  .5635864        .0677     8.32   0.000     .4279671    .6992057
    otherrel |  .0944058    .0455103     2.07   0.043     .0032377    .1855738
     regular |  .6532603    .0338177    19.32   0.000     .5855153    .7210052
 yearnotmonth | -.2002975    .0883732    -2.27   0.027    -.3773303   -.0232647
      oneact | -.3374989    .0452631    -7.46   0.000    -.4281717   -.2468261
       disab |  .0606519    .0371672     1.63   0.108     -.013803    .1351067
      outhlp |  .0814182     .037698     2.16   0.035         .0059    .1569364
     insdhlp |    .07873    .0588365     1.34   0.186    -.0391337    .1965938
      bedhlp |  .1407346    .0772239     1.82   0.074    -.0139634    .2954327
     tkplhlp1 | -.0408184    .0352763    -1.16   0.252    -.1114853    .0298485
     tkplhlp2 | -.1926734    .0444185    -4.34   0.000    -.2816543   -.1036925
     launhlp |  .3361018    .0436721     7.70   0.000      .248616    .4235875
     shophlp |  .1795895    .0403436     4.45   0.000     .0987715    .2604075
     mealhlp |  .3269943    .0485472     6.74   0.000     .2297425     .424246
     bankhlp |  .0927658    .0340907     2.72   0.009     .0244738    .1610578
      eathlp |  .0586936    .0728618     0.81   0.424    -.0872661    .2046533
     bathhlp |  .0551923    .0562128     0.98   0.330    -.0574155    .1678001
     toilhlp | -.0489541    .0759147    -0.64   0.522    -.2010295    .1031212
     dreshlp |  .0159871    .0691059     0.23   0.818    -.1224487    .1544229
     medshlp |    .16885    .0478504     3.53   0.001      .072994    .2647059
    moneyhlp | -.0710931    .0587285    -1.21   0.231    -.1887404    .0465542
      dochlp |  .1277126    .0327268     3.90   0.000      .062153    .1932722
     insurhlp |  .0323581    .0762354     0.42   0.673    -.1203598    .1850759
       _cons |  1.316157    .0643241    20.46   0.000     1.187301    1.445014
------------------------------------------------------------------------------
```

(option xb assumed; fitted values)
(49,065 missing values generated)
(49,065 missing values generated)
(0 real changes made)
(0 real changes made)
(585 real changes made)
(6,416 real changes made)
(42,064 missing values generated)
(running regress on estimation sample)

Survey: Linear regression

```
Number of strata   =        56            Number of obs     =       7,001
Number of PSUs     =       112            Population size   =  42,621,876
                                          Design df         =          56
                                          F(  23,     34)   =       46.25
                                          Prob > F          =      0.0000
                                          R-squared         =      0.1811
```

```
------------------------------------------------------------------------------
             |             Linearized
ln_opnumhr~i |     Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      spouse | -.1412467    .0397417    -3.55   0.001     -.220859   -.0616345
    otherrel |  .1216883    .0363924     3.34   0.001     .0487856     .194591
     regular |  .1818337    .0307058     5.92   0.000     .1203225    .2433448
 yearnotmonth | -.1308424    .0829174    -1.58   0.120    -.2969459    .0352612
      oneact | -.0094406    .0348681    -0.27   0.788    -.0792898    .0604087
       disab |  .0605098    .0350284     1.73   0.090    -.0096606    .1306802
      outhlp |  .1178861    .0420143     2.81   0.007     .0337212    .2020509
     insdhlp |   .079577    .0674427     1.18   0.243     -.055527     .214681
      bedhlp |  .3196724     .082246     3.89   0.000     .1549139    .4844309
     tkplhlp1 |  .0303859    .0267467     1.14   0.261    -.0231941    .0839659
     tkplhlp2 |  .0814235    .0452582     1.80   0.077    -.0092395    .1720866
```

```
    launhlp |   .2534391    .0351311     7.21   0.000     .1830631    .3238151
    shophlp |   .0903269    .0309555     2.92   0.005     .0283156    .1523381
    mealhlp |   .0864359    .0257691     3.35   0.001     .0348142    .1380577
    bankhlp |   .0190517    .0230262     0.83   0.412    -.0270753    .0651786
     eathlp |   .2925939    .0790944     3.70   0.000     .1341487    .4510392
    bathhlp |   .0464614    .0688463     0.67   0.503    -.0914542    .1843771
    toilhlp |   .3518386    .0949174     3.71   0.000     .1616962     .541981
    dreshlp |   .0290224    .0647881     0.45   0.656    -.1007639    .1588086
    medshlp |   .2036576    .0408037     4.99   0.000      .121918    .2853972
   moneyhlp |  -.0860206    .0376445    -2.29   0.026    -.1614316   -.0106096
     dochlp |   .1452098    .0312997     4.64   0.000      .082509    .2079107
    insurhlp |  -.1063355    .1012683    -1.05   0.298    -.3092004    .0965294
      _cons |   .3715389    .0556928     6.67   0.000     .2599727    .4831051
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(48,838 missing values generated)
(48,838 missing values generated)
(53 real changes made)
(174 real changes made)
(0 real changes made)
(42,064 missing values generated)
(running regress on estimation sample)
```

Survey: Linear regression

```
Number of strata   =         56              Number of obs     =       7,001
Number of PSUs     =        112              Population size   =  42,621,876
                                             Design df         =          56
                                             F(  23,      34)  =      135.12
                                             Prob > F          =      0.0000
                                             R-squared         =      0.4244
```

```
             |               Linearized
ln_opdhrsm~i |     Coef.    Std. Err.      t     P>|t|     [95% Conf. Interval]
-------------+-----------------------------------------------------------------
      spouse |    .422301    .0798742     5.29   0.000     .2622937    .5823083
    otherrel |   .2161649    .0577889     3.74   0.000     .1003997      .33193
     regular |   .8416063    .0505575    16.65   0.000     .7403275     .942885
 yearnotmonth |  -.331217    .1512885    -2.19   0.033    -.6342843   -.0281496
      oneact |  -.3469612    .0610246    -5.69   0.000    -.4692081   -.2247142
       disab |   .1211631    .0563262     2.15   0.036     .0083282    .2339981
      outhlp |   .1992923    .0606639     3.29   0.002     .0777678    .3208167
      insdhlp |   .1583852    .0905469     1.75   0.086    -.023002    .3397723
      bedhlp |   .4604492    .0961189     4.79   0.000        .2679    .6529985
    tkplhlp1 |  -.0103986    .0520314    -0.20   0.842    -.1146299    .0938327
    tkplhlp2 |  -.1111845    .0703968    -1.58   0.120    -.2522062    .0298371
     launhlp |   .5896418    .0656108     8.99   0.000     .4582076    .7210759
     shophlp |   .2699544    .0542224     4.98   0.000     .1613339     .378575
     mealhlp |   .4134476    .0514765     8.03   0.000     .3103278    .5165674
     bankhlp |   .1117541    .0452708     2.47   0.017     .0210657    .2024425
      eathlp |   .3513473    .1136319     3.09   0.003     .1237152    .5789794
     bathhlp |    .101589    .0974473     1.04   0.302    -.0936214    .2967995
     toilhlp |   .3028474    .1325251     2.29   0.026     .0373677    .5683271
     dreshlp |   .0451254    .1120079     0.40   0.689    -.1792534    .2695043
     medshlp |   .3725014    .0651229     5.72   0.000     .2420445    .5029583
    moneyhlp |  -.1571025    .0788491    -1.99   0.051    -.3150561    .0008511
      dochlp |   .2729656    .0511643     5.34   0.000     .1704712     .37546
     insurhlp |  -.0742034    .1438664    -0.52   0.608    -.3624024    .2139956
       _cons |   1.687604    .0902892    18.69   0.000     1.506733    1.868475
-------------------------------------------------------------------------------
(option xb assumed; fitted values)
(47,212 missing values generated)
(47,212 missing values generated)
(1,853 real changes made)
(39,533 real changes made)
where op_ind_hrsmth==-12
```

```
Mean estimation                    Number of obs    =       1,410
```

```
            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |    15.1476    .5411432      14.08607    16.20914
            ----------------------------------------------------------------
where op_ind_hrsmth==-11

Mean estimation                         Number of obs    =         227


            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |   42.59677    3.262759      36.16745    49.02609
            ----------------------------------------------------------------
where op_ind_hrsmth==-10
no observations
where op_ind_hrsmth==-9

Mean estimation                         Number of obs    =         443


            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |   17.85096    1.813534      14.28673    21.41518
            ----------------------------------------------------------------
where op_ind_hrsmth==9999
no observations
impute_cat==2

Mean estimation                         Number of obs    =         451


            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |          0    (omitted)
            ----------------------------------------------------------------
impute_cat==3

Mean estimation                         Number of obs    =         585


            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |   4.450013    .2537683      3.951603    4.948423
            ----------------------------------------------------------------
impute_cat==4

Mean estimation                         Number of obs    =       6,416


            ----------------------------------------------------------------
                      |       Mean    Std. Err.     [95% Conf. Interval]
            -------------+--------------------------------------------------
            op_hrsmth_i |   60.22063    1.699959      56.88814    63.55312
            ----------------------------------------------------------------
    file R7_hrs_imputed_added.dta saved

220
221 ****************************************************************
222 log close
        name:  <unnamed>
         log:  E:\nhats\nhats_code\NHATS data setup\logs\/1a-help_hours_imputation
  > _19_Apr_2019.smcl
   log type:  text
  closed on:  19 Apr 2019, 16:26:04
      --------------------------------------------------------------------------------
```