



```

-----
      name: <unnamed>
      log:  E:\nhats\nhats_code\NHATS data setup\logs\1a-help_hours_imputation
> _4_Apr_2019.smcl
      log type:  text
      opened on:   4 Apr 2019, 13:13:06

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
> tassets
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 | ( <u>_merge</u> ==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         | ( <u>_merge</u> ==1) |
| from using  | 189       | ( <u>_merge</u> ==2) |
| matched     | 49,065    | ( <u>_merge</u> ==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/$w{
22.     use R`w'_OPSPlinked.dta
23.     if inlist(`w',1,2,3,4){
24.         keep spid opid op`w'* wave w`w'anfinwgt0 w`w'varstr
25.         > at w`w'varunit r`w'dresid ///
26.         > mo`w'douthelp mo`w'dinsdhelp mo`w'dbedhelp sc`w'ddeathelp sc`w'
27.         > dbathhelp ///
28.         > sc`w'dtoilhelp sc`w'ddreshelp ha`w'dlaunreas ha`w'dshopreas ha
29.         > `w'dmealreas ///
30.         > ha`w'dbankreas mc`w'dmedsreas
31.         }
32.         //add new wave to list below
33.     if inrange(`w',5,$w){
34.         keep spid opid op`w'* wave w`w'anfinwgt0 w`w'varstr
35.         > at w`w'varunit r`w'dresid ///
36.         > mo`w'douthelp mo`w'dinsdhelp mo`w'dbedhelp sc`w'ddeathelp sc`w'
37.         > dbathhelp ///
38.         > sc`w'dtoilhelp sc`w'ddreshelp ha`w'dlaunreas ha`w'dshopreas ha
39.         > `w'dmealreas ///
40.         > ha`w'dbankreas mc`w'dmedsreas w`w'an2011wgt0
41.         }
42.     }
43.     rename (op`w'* w`w'* r`w'* mo`w'* sc`w'* ha`w'* mc`w'*) (*)
44.     save R`w'_OPSPltd.dta, replace
45. }
46. file R1_OPSPltd.dta saved
47. file R2_OPSPltd.dta saved
48. file R3_OPSPltd.dta saved
49. file R4_OPSPltd.dta saved
50. file R5_OPSPltd.dta saved
51. file R6_OPSPltd.dta saved
52. file R7_OPSPltd.dta saved

```

```

26.
27.
28.
29. *****
30. //merge into single file for initial setup
31. use R1_OPSP1td.dta, clear

32. forvalues w=2/$w{
    2. append using R`w'_OPSP1td.dta
    3. }

33.
34. save R1234_OPSP1td_n.dta, replace
    file R1234_OPSP1td_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. }

```

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

(38,097 real changes made)

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

(37,944 real changes made)

| R1 BXHL1 HELPS  | Survey 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)

| R1 BXHL1 HELPS  | Survey 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)

| R1 BXHL1 HELPS  | Survey 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)

| R1 BXHL1 HELPS  | Survey 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)

| R1 BXHL1 HELPS  | Survey 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  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| HELP PER DAY    |  |        |         |        |
| -1 Inapplicable |  | 40,006 | 100.00  | 100.00 |
| Total           |  | 40,006 | 100.00  |        |

(0 real changes made)

| R1 HL1 HELP IS  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| REG SCHEDULED   |  |        |         |        |
| -1 INAPPLICABLE |  | 39,533 | 100.00  | 100.00 |
| Total           |  | 39,533 | 100.00  |        |

(0 real changes made)

| R1 HL2 NUM DAYS |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| HELP PER WK     |  |        |         |        |
| -1 Inapplicable |  | 39,533 | 100.00  | 100.00 |
| Total           |  | 39,533 | 100.00  |        |

(0 real changes made)

| R1 HL3 NUM DAYS |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| HELP PER MON    |  |        |         |        |
| -1 Inapplicable |  | 39,533 | 100.00  | 100.00 |
| Total           |  | 39,533 | 100.00  |        |

(0 real changes made)

| R1 HL4 NUM HRS  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| HELP PER DAY    |  |        |         |        |
| -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

| month | Survey wave |        |        |        |        | Total   |
|-------|-------------|--------|--------|--------|--------|---------|
|       | 1           | 2      | 3      | 4      | 5      |         |
| 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 |

| month | Survey wave |        | Total   |
|-------|-------------|--------|---------|
|       | 6           | 7      |         |
| 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)

| year  | month  |        | Total  |
|-------|--------|--------|--------|
|       | 0      | 1      |        |
| 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)

| year  | month  |        | Total  |
|-------|--------|--------|--------|
|       | 0      | 1      |        |
| 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)

| year  | month  |       | Total  |
|-------|--------|-------|--------|
|       | 0      | 1     |        |
| 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)

| year  | month  |       | Total  |
|-------|--------|-------|--------|
|       | 0      | 1     |        |
| 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)

| year  | month  |        | Total  |
|-------|--------|--------|--------|
|       | 0      | 1      |        |
| 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)

| year  | month  |        | Total  |
|-------|--------|--------|--------|
|       | 0      | 1      |        |
| 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)

| year  | month  |        | Total  |
|-------|--------|--------|--------|
|       | 0      | 1      |        |
| 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 &amp; month==0

(5,795 real changes made)

61. tab yearnotmonth wave, missing

| yearnotmon | Survey wave |        |        |        |        | Total   |
|------------|-------------|--------|--------|--------|--------|---------|
| th         | 1           | 2      | 3      | 4      | 5      |         |
| 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 |        | Total   |
|------------|-------------|--------|---------|
| th         | 6           | 7      |         |
| 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

| disab | Survey wave |        |        |        |        | Total   |
|-------|-------------|--------|--------|--------|--------|---------|
|       | 1           | 2      | 3      | 4      | 5      |         |
| 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 |

| disab | Survey wave |        | Total   |
|-------|-------------|--------|---------|
|       | 6           | 7      |         |
| 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 dhrrsmth wave, missing //derived hours/month from HL section

| R1 D HL2 HL3 HL4 HRS | Survey wave |        |        |        | Total   |
|----------------------|-------------|--------|--------|--------|---------|
| HELP MONTH           | 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+hrrs 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 |        |        | Total   |
|----------------------|-------------|--------|--------|---------|
| HELP MONTH           | 5           | 6      | 7      |         |
| -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   |
| <hr/>                 |        |        |        |         |
| Total                 | 52,285 | 51,174 | 49,065 | 297,326 |

```

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

81. forvalues w=1/$w{
    2. replace op_ind_hrsmt=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_hrsmt (1/750=1)
    (op_ind_hrsmt: 47183 changes made)

83.
84. la def hrsmt -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_hrsmt hrsmt

86. tab op_ind_hrsmt wave, missing

```

| op_ind_hrsmt         | Survey wave |        |        |        | Total   |
|----------------------|-------------|--------|--------|--------|---------|
|                      | 1           | 2      | 3      | 4      |         |
| -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 |

| op_ind_hrsmt         | Survey wave |        |        | Total   |
|----------------------|-------------|--------|--------|---------|
|                      | 5           | 6      | 7      |         |
| -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_hrsnth, missing

```

| justone | op_ind_hrsnth |           |           |          |           | Total   |
|---------|---------------|-----------|-----------|----------|-----------|---------|
|         | -13:Decea     | Zero days | -11:hours | -10:days | -9:days+h |         |
| 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 |

| justone | op_ind_hrsnth |         |           | Total   |
|---------|---------------|---------|-----------|---------|
|         | -1:NA         | 1:Valid | 9999:<1hr |         |
| 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   |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| IN W SP AT DRS  |  |        |         |        |
| -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  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| WITH INSUR      |  |        |         |        |
| DECIS           |  |        |         |        |
| -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   |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| SP GO OUTSIDE   |  |        |         |        |
| -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  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| SP INSIDE HOUSE |  |        |         |        |
| -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  |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| SP OUT OF BED   |  |        |         |        |
| -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   |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| SP PLACES MOST  |  |        |         |        |
| -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   |  | Freq.  | Percent | Cum.   |
|-----------------|--|--------|---------|--------|
| SP PLACES OTH   |  |        |         |        |
| -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 + tkplhlpl + 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

| numact | Survey wave |        |        |        |        | Total   |
|--------|-------------|--------|--------|--------|--------|---------|
|        | 1           | 2      | 3      | 4      | 5      |         |
| 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 |

| numact | Survey wave |        | Total   |
|--------|-------------|--------|---------|
|        | 6           | 7      |         |
| 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

| oneact | opishelper_allw |        | Total   |
|--------|-----------------|--------|---------|
|        | -1              | 1      |         |
| 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
   > 1
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  <br>RELATIONSHIP TO SP | spouse |       | Total  |
|--------------------------------------|--------|-------|--------|
|                                      | 0      | 1     |        |
| 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<br>RELATIONSHIP TO SP | spouse |       | Total  |
|------------------------------------|--------|-------|--------|
|                                    | 0      | 1     |        |
| -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<br>RELATIONSHIP TO SP | Non-spouse relative |        | Total  |
|------------------------------------|---------------------|--------|--------|
|                                    | 0                   | 1      |        |
| -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<br>RELATIONSHIP TO SP | Non-relative |       | Total  |
|------------------------------------|--------------|-------|--------|
|                                    | 0            | 1     |        |
| -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<br>RELATIONSHIP TO SP | spouse  |       | Total   |
|------------------------------------|---------|-------|---------|
|                                    | 0       | 1     |         |
| -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<br>RELATIONSHIP TO SP | Non-spouse relative |        | Total   |
|------------------------------------|---------------------|--------|---------|
|                                    | 0                   | 1      |         |
| -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<br>RELATIONSHIP TO SP | Non-relative |   | Total  |
|------------------------------------|--------------|---|--------|
|                                    | 0            | 1 |        |
| -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   |
| <hr/>                 |         |        |         |
| Total                 | 133,526 | 11,276 | 144,802 |

| R1 OTHR PRSN          | Non-spouse relative |         |         |
|-----------------------|---------------------|---------|---------|
| RELATIONSHIP TO SP    | 0                   | 1       | Total   |
| <hr/>                 |                     |         |         |
| -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   |
| <hr/>                 |                     |         |         |
| Total                 | 42,298              | 102,504 | 144,802 |

| R1 OTHR PRSN<br>RELATIONSHIP TO SP | Non-relative |        | Total   |
|------------------------------------|--------------|--------|---------|
|                                    | 0            | 1      |         |
| -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<br>RELATIONSHIP TO SP | spouse |        | Total  |
|------------------------------------|--------|--------|--------|
|                                    | 0      | 1      |        |
| -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          | Non-spouse 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            | 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   |
| <hr/>                 |        |         |         |
| Total                 | 59,247 | 137,840 | 197,087 |

| R1 OTHR PRSN<br>RELATIONSHIP TO SP | Non-relative |        | Total   |
|------------------------------------|--------------|--------|---------|
|                                    | 0            | 1      |         |
| <hr/>                              |              |        |         |
| -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   |
| <hr/>                              |              |        |         |
| 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<br>RELATIONSHIP TO SP | Non-spouse relative |         | Total   |
|------------------------------------|---------------------|---------|---------|
|                                    | 0                   | 1       |         |
| -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<br>RELATIONSHIP TO SP | Non-relative |   | Total  |
|------------------------------------|--------------|---|--------|
|                                    | 0            | 1 |        |
| -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  |
| <hr/>                 |         |        |         |
| Total                 | 276,394 | 20,932 | 297,326 |

| R1 OTHR PRSN          | Non-spouse relative |         |         |
|-----------------------|---------------------|---------|---------|
| RELATIONSHIP TO SP    | 0                   | 1       | Total   |
| <hr/>                 |                     |         |         |
| -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  |
| <hr/>                 |                     |         |         |
| Total                 | 95,801              | 201,525 | 297,326 |

| R1 OTHR PRSN<br>RELATIONSHIP TO SP | Non-relative |        | Total   |
|------------------------------------|--------------|--------|---------|
|                                    | 0            | 1      |         |
| -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

| spouse | Survey wave |        |        |        |        | Total   |
|--------|-------------|--------|--------|--------|--------|---------|
|        | 1           | 2      | 3      | 4      | 5      |         |
| 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 |

  

| spouse | Survey wave |        | Total   |
|--------|-------------|--------|---------|
|        | 6           | 7      |         |
| 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<br>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<br>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<br>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<br>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 &amp; 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

| regular | Survey wave |        |        |        |        | Total   |
|---------|-------------|--------|--------|--------|--------|---------|
|         | 1           | 2      | 3      | 4      | 5      |         |
| 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 |

| regular | Survey wave |        | Total   |
|---------|-------------|--------|---------|
|         | 6           | 7      |         |
| 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\_hrsamth hrsamth

148

149 tab op\_ind\_hrsamth wave

| op_ind_hrsamth       | Survey wave |        |        |        | Total   |
|----------------------|-------------|--------|--------|--------|---------|
|                      | 1           | 2      | 3      | 4      |         |
| -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 |

| op_ind_hrsamth       | Survey wave |        |        | Total   |
|----------------------|-------------|--------|--------|---------|
|                      | 5           | 6      | 7      |         |
| -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\_hrsnth yearnotmonth if wave==1 &amp; opishelper\_allw==1

| op_ind_hrsnth        | yearnotmonth |     | Total  |
|----------------------|--------------|-----|--------|
|                      | 0            | 1   |        |
| -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\_hrsnth yearnotmonth if wave==2 &amp; opishelper\_allw==1

| op_ind_hrsnth        | yearnotmonth |     | Total |
|----------------------|--------------|-----|-------|
|                      | 0            | 1   |       |
| -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\_hrsnth,-11,-10) | ///  
> (op\_ind\_hrsnth==9 & yearnotmonth==0) & ishhelper==1 & wave==1  
(2,627 real changes made)163 replace impute\_cat=1 if op\_ind\_hrsnth==9999 & (numdayswk==1 | numdaysm  
> n==1) ///  
> & yearnotmonth==0 & ishhelper==1 & wave==1  
(676 real changes made)

164 //2=recode to zero

165 replace impute\_cat=2 if op\_ind\_hrsnth==9 & yearnotmonth==1 & ishhelper  
> ==1 & wave==1  
(91 real changes made)

```

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

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

169      //4=imputation not necessary, complete info
170      replace impute_cat=4 if op_ind_hrsnth==1 & ishelfer==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_hrsnth,-11,-9) & opishelper_allw
> ==1 & inrange(wave,2,$w)
(3,470 real changes made)

175      replace impute_cat=1 if op_ind_hrsnth==-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_hrsnth==-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_hrsnth==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_hrsnth==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

```

| impute_cat            | Survey wave |        |        |        | Total   |
|-----------------------|-------------|--------|--------|--------|---------|
|                       | 1           | 2      | 3      | 4      |         |
| 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 |

| impute_cat            | Survey wave |        |        | Total   |
|-----------------------|-------------|--------|--------|---------|
|                       | 5           | 6      | 7      |         |
| 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\_hrsmt h if wave==1, missing

| impute_cat            | op_ind_hrsmt h |          |           |        | Total  |
|-----------------------|----------------|----------|-----------|--------|--------|
|                       | -11:hours      | -10:days | -9:days+h | -1:NA  |        |
| 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 |

| impute_cat            | op_ind_hrsmt h |           | Total  |
|-----------------------|----------------|-----------|--------|
|                       | 1:Valid        | 9999:<1hr |        |
| 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\_hrsmt h if wave==2, missing

| impute_cat            | op_ind_hrsmt h |          |           |           | Total  |
|-----------------------|----------------|----------|-----------|-----------|--------|
|                       | -13:Decea      | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt h |         |           | Total  |
|-----------------------|----------------|---------|-----------|--------|
|                       | -1:NA          | 1:Valid | 9999:<1hr |        |
| 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\_hrsmt h if wave==3, missing

| impute_cat            | op_ind_hrsmt h |          |           |           | Total  |
|-----------------------|----------------|----------|-----------|-----------|--------|
|                       | -13:Decea      | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt |         |           | Total  |
|-----------------------|--------------|---------|-----------|--------|
|                       | -1:NA        | 1:Valid | 9999:<1hr |        |
| 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\_hrsmt if wave==4, missing

| impute_cat            | op_ind_hrsmt |          |           |           | Total  |
|-----------------------|--------------|----------|-----------|-----------|--------|
|                       | -13:Decea    | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt |         |           | Total  |
|-----------------------|--------------|---------|-----------|--------|
|                       | -1:NA        | 1:Valid | 9999:<1hr |        |
| 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\_hrsmt if wave==5, missing

| impute_cat            | op_ind_hrsmt |          |           |           | Total  |
|-----------------------|--------------|----------|-----------|-----------|--------|
|                       | -13:Decea    | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt |         |           | Total  |
|-----------------------|--------------|---------|-----------|--------|
|                       | -1:NA        | 1:Valid | 9999:<1hr |        |
| 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\_hrsmt h if wave==6, missing

| impute_cat            | op_ind_hrsmt h |          |           |           | Total  |
|-----------------------|----------------|----------|-----------|-----------|--------|
|                       | -13:Decea      | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt h |         |           | Total  |
|-----------------------|----------------|---------|-----------|--------|
|                       | -1:NA          | 1:Valid | 9999:<1hr |        |
| 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\_hrsmt h if wave==7, missing

| impute_cat            | op_ind_hrsmt h |          |           |           | Total  |
|-----------------------|----------------|----------|-----------|-----------|--------|
|                       | -13:Decea      | -12:Zero | -11:hours | -9:days+h |        |
| 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 |

| impute_cat            | op_ind_hrsmt h |         |           | Total  |
|-----------------------|----------------|---------|-----------|--------|
|                       | -1:NA          | 1:Valid | 9999:<1hr |        |
| 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_hrsmt_h_i=0
    5. replace op_hrsmt_h_i=dhrsmth if impute_cat==4 //use actual value
    6. replace op_hrsmt_h_i=0 if impute_cat==2 //set to zero
    7. replace op_hrsmt_h_i=(.5*numdayswk*4.3) if impute_cat==3 & helpsched==1 //as
    > sign small hours
    8. replace op_hrsmt_h_i=(.5*numdaysmn) if impute_cat==3 & inlist(helpsched,2,-7
    > ,-8) //assign small hours
    9.
206 //impute where op_ind_hrsmt_h=-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 yeartotmonth oneact disab ///
    > outhlp insdhlpl bedhlp tkplhlpl tkplhlpl2 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_hrsmt_h==-10
    16. gen op_numdays_i2=exp(ln_opnumdays_i2) if impute_cat==1 & op_ind_hrsmt_h==-1
    > 0
    17. replace op_hrsmt_h_i= op_numdays_i2*numhrsday if impute_cat==1 & ///
    > op_ind_hrsmt_h==-10 & numhrsday>=1
    18. replace op_hrsmt_h_i= op_numdays_i2*.5 if impute_cat==1 & ///
    > op_ind_hrsmt_h==-10 & numhrsday==0
    19.
211 //impute where op_ind_hrsmt_h=-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_hrsmt_h==-11
    25. gen op_numhrsday_i2=exp(ln_opnumhrsday_i2) if impute_cat==1 & op_ind_hrsmt_h
    > ==-11
    26. replace op_hrsmt_h_i=numdayswk*4.3*op_numhrsday_i2 if impute_cat==1 & ///
    > op_ind_hrsmt_h==-11 & helpsched==1
    27. replace op_hrsmt_h_i=numdaysmn*op_numhrsday_i2 if impute_cat==1 & ///
    > op_ind_hrsmt_h==-11 & inlist(helpsched,2,-7,-8) & numdaysmn>=1
    28. replace op_hrsmt_h_i=numdayswk*4.3*op_numhrsday_i2 if impute_cat==1 & ///

```

```

> op_ind_hrsnth==11 & inlist(helpsched,2,-7,-8) & ///
> numdaysmn<1 & numdayswk>=1
29.
213 //impute where op_ind_hrsnth=-9, -12 or 9999, missing hours and days or <1hr/d
> ay
214 gen ln_opdhrsmth_i=ln(op_hrsnth_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_hrsnth,-9,-12,9999
> )
32. gen op_hrsnth_i2=exp(ln_opdhrsmth_i2) if impute_cat==1 & inlist(op_ind_hrsnth
> th,-9,-12,9999)
33. replace op_hrsnth_i=op_hrsnth_i2 if impute_cat==1 & inlist(op_ind_hrsnth,-9
> ,-12,9999)
34. replace op_hrsnth_i=-1 if ishelper~=1
35.
215 //look at imputed hours per month by imputation category
216 di "where op_ind_hrsnth==12"
36. capture noisily: mean op_hrsnth_i if impute_cat==1 & op_ind_hrsnth==12 [pw
> eight=anfinwgt0]
37. di "where op_ind_hrsnth==11"
38. mean op_hrsnth_i if impute_cat==1 & op_ind_hrsnth==11 [pweight=anfinwgt0]
39. di "where op_ind_hrsnth==10"
40. capture noisily: mean op_hrsnth_i if impute_cat==1 & op_ind_hrsnth==10 [pw
> eight=anfinwgt0]
41. di "where op_ind_hrsnth==9"
42. mean op_hrsnth_i if impute_cat==1 & op_ind_hrsnth==9 [pweight=anfinwgt0]
43. di "where op_ind_hrsnth==9999"
44. capture noisily: mean op_hrsnth_i if impute_cat==1 & op_ind_hrsnth==9999 [p
> weight=anfinwgt0]
45.
217 di "impute_cat==2"
46. mean op_hrsnth_i if op_hrsnth_i~-1 & impute_cat==2 [pweight=anfinwgt0]
47. di "impute_cat==3"
48. mean op_hrsnth_i if op_hrsnth_i~-1 & impute_cat==3 [pweight=anfinwgt0]
49. di "impute_cat==4"
50. mean op_hrsnth_i if op_hrsnth_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     |

| ln_opnumda~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .0962042  | .0550149                | 1.75  | 0.086 | -.0140039            | .2064122  |
| bedhlp       | -.0000975 | .0536042                | -0.00 | 0.999 | -.1074795            | .1072846  |
| tkplhlpl1    | .0670854  | .0278496                | 2.41  | 0.019 | .0112959             | .122875   |
| tkplhlpl2    | -.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     |

| ln_opnumhr~i | Coef.     | Linearized<br>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 |
| insdhlpl     | .1500529  | .049026                 | 3.06  | 0.003 | .051842              | .2482639 |
| bedhlp       | .2441647  | .0611057                | 4.00  | 0.000 | .1217552             | .3665741 |
| tkplhlpl1    | .0420772  | .0230763                | 1.82  | 0.074 | -.0041503            | .0883046 |
| tkplhlpl2    | .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 |

```
Mean estimation      Number of obs      =      103
```

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |    8.574615   .9208114    6.74819    10.40104
-----+-----

```

where op\_ind\_hrs\_mth==9

Mean estimation                      Number of obs    =        638

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   15.02608   .8305304   13.39517   16.65699
-----+-----

```

where op\_ind\_hrs\_mth==9999

Mean estimation                      Number of obs    =        676

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   13.75598   .830141    12.12601   15.38595
-----+-----

```

impute\_cat==2

Mean estimation                      Number of obs    =        303

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |           0  (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs    =        418

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_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_hrs_mth_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     |

| ln_opnumda~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .1523745  | .0481907                | 3.16  | 0.003 | .0558369             | .2489121  |
| bedhlp       | -.0086655 | .0582687                | -0.15 | 0.882 | -.1253918            | .1080607  |
| tkplhlpl1    | -.0699267 | .0312954                | -2.23 | 0.029 | -.1326188            | -.0072345 |
| tkplhlpl2    | -.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     |

| ln_opnumhr~i | Coef.     | Linearized<br>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 |
| insdhlpl     | .098705   | .0469085                | 2.10  | 0.040 | .004736              | .1926739 |
| bedhlp       | .2974317  | .0750291                | 3.96  | 0.000 | .1471303             | .4477332 |
| tkplhlpl1    | .0690091  | .0352526                | 1.96  | 0.055 | -.0016104            | .1396286 |
| tkplhlpl2    | .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 |

Mean estimation                      Number of obs       =                965

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   15.70768   .7069004    14.32043    17.09492
-----+-----

```

where op\_ind\_hrs\_mth==11

Mean estimation                      Number of obs    =        220

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   50.0305   3.211043    43.702    56.359
-----+-----

```

where op\_ind\_hrs\_mth==10

no observations

where op\_ind\_hrs\_mth==9

Mean estimation                      Number of obs    =        372

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   17.59416   1.127487    15.3771    19.81123
-----+-----

```

where op\_ind\_hrs\_mth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs    =        299

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |           0 (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs    =        466

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_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_hrs_mth_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<br>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      | .611118   | .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   |
| insdhlpl     | .1594248  | .0706018                | 2.26  | 0.028 | .0179925             | .3008572  |
| bedhlpl      | .0923095  | .0757025                | 1.22  | 0.228 | -.0593407            | .2439598  |
| tkplhlpl1    | -.0281565 | .0305808                | -0.92 | 0.361 | -.0894172            | .0331041  |
| tkplhlpl2    | -.2677557 | .0414643                | -6.46 | 0.000 | -.3508186            | -.1846928 |
| launhlpl     | .2809537  | .0363668                | 7.73  | 0.000 | .2081023             | .3538052  |
| shophlpl     | .2382679  | .0368349                | 6.47  | 0.000 | .1644787             | .312057   |
| mealhlpl     | .3632821  | .0370363                | 9.81  | 0.000 | .2890894             | .4374747  |
| bankhlpl     | .0836157  | .0319022                | 2.62  | 0.011 | .019708              | .1475234  |
| eathlpl      | .1202538  | .0505282                | 2.38  | 0.021 | .0190336             | .221474   |
| bathhlpl     | .0327459  | .0552101                | 0.59  | 0.555 | -.0778532            | .143345   |
| toilhlpl     | .0115329  | .0717873                | 0.16  | 0.873 | -.1322742            | .1553401  |
| dreshlpl     | .0394282  | .0554606                | 0.71  | 0.480 | -.0716727            | .1505292  |
| medshlpl     | .1825903  | .0411739                | 4.43  | 0.000 | .1001091             | .2650716  |
| moneyhlpl    | -.0477062 | .0420952                | -1.13 | 0.262 | -.1320329            | .0366205  |
| dochlpl      | -.0017881 | .0311737                | -0.06 | 0.954 | -.0642365            | .0606603  |
| insurhlpl    | .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<br>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 |
| insdhlpl     | .0945743  | .0764963                | 1.24  | 0.221 | -.0586662            | .2478148 |
| bedhlpl      | .1516865  | .0901682                | 1.68  | 0.098 | -.0289421            | .3323151 |
| tkplhlpl1    | .0449282  | .0303858                | 1.48  | 0.145 | -.0159418            | .1057982 |
| tkplhlpl2    | .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     |

| ln_opdhrsm~i | Coef.     | Linearized 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\_hrsnth==12

Mean estimation                      Number of obs    =        714

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   14.64018   .7360239    13.19514    16.08521
-----+-----

```

where op\_ind\_hrsnth==11

Mean estimation                      Number of obs   =        324

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   55.27517   3.055636    49.26371    61.28663
-----+-----

```

where op\_ind\_hrsnth==10

no observations

where op\_ind\_hrsnth==9

Mean estimation                      Number of obs   =        558

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   18.73445   1.264598    16.25049    21.21841
-----+-----

```

where op\_ind\_hrsnth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs   =        310

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |           0 (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs   =        391

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_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_hrsnth_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     |

| ln_opnumda~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .1198898  | .0662082                | 1.81  | 0.076 | -.0127412            | .2525209  |
| bedhlpl      | .0289062  | .0808411                | 0.36  | 0.722 | -.1330379            | .1908503  |
| tkplhlpl1    | .0042865  | .031816                 | 0.13  | 0.893 | -.0594486            | .0680216  |
| tkplhlpl2    | -.2276146 | .0409083                | -5.56 | 0.000 | -.3095637            | -.1456655 |
| launhlpl     | .3163341  | .0408879                | 7.74  | 0.000 | .2344257             | .3982425  |
| shophlpl     | .1972409  | .0429879                | 4.59  | 0.000 | .1111259             | .283356   |
| mealhlpl     | .4014343  | .0369929                | 10.85 | 0.000 | .3273286             | .47554    |
| bankhlpl     | .1075383  | .0410596                | 2.62  | 0.011 | .025286              | .1897906  |
| eathlpl      | -.0028902 | .0836913                | -0.03 | 0.973 | -.1705441            | .1647636  |
| bathhlpl     | .057077   | .0657812                | 0.87  | 0.389 | -.0746985            | .1888525  |
| toilhlpl     | .1309503  | .0844888                | 1.55  | 0.127 | -.0383011            | .3002016  |
| dreshlpl     | .1287687  | .0580887                | 2.22  | 0.031 | .0124031             | .2451342  |
| medshlpl     | .1026022  | .0405006                | 2.53  | 0.014 | .0214697             | .1837346  |
| moneyhlpl    | .0180766  | .0442788                | 0.41  | 0.685 | -.0706245            | .1067777  |
| dochlpl      | .1073062  | .0337808                | 3.18  | 0.002 | .0396351             | .1749773  |
| insurhlpl    | -.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     |

| ln_opnumhr~i | Coef.     | Linearized<br>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  |
| insdhlpl     | -.0307943 | .0646201                | -0.48 | 0.636 | -.1602438            | .0986553  |
| bedhlpl      | .2828585  | .1059707                | 2.67  | 0.010 | .0705737             | .4951432  |
| tkplhlpl1    | .0483347  | .026793                 | 1.80  | 0.077 | -.0053381            | .1020076  |
| tkplhlpl2    | .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     |

| ln_opdhrsm~i | Coef.     | Linearized 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\_hrsmtth==12

Mean estimation                      Number of obs    =        667



```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   13.75362   .7897666   12.20289   15.30435
-----+-----

```

where op\_ind\_hrsnth==11

Mean estimation                      Number of obs    =        237

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   45.3443   2.922556   39.58667   51.10193
-----+-----

```

where op\_ind\_hrsnth==10

no observations

where op\_ind\_hrsnth==9

Mean estimation                      Number of obs    =        547

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   19.83486   1.407003   17.07106   22.59866
-----+-----

```

where op\_ind\_hrsnth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs    =        331

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |           0   (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs    =        382

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_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_hrsnth_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<br>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    |
| insdhlpl     | .171046   | .0500358                | 3.42  | 0.001 | .0708122             | .2712798  |
| bedhlpl      | -.0309755 | .0601449                | -0.52 | 0.609 | -.1514602            | .0895093  |
| tkplhlpl1    | -.0348915 | .0309127                | -1.13 | 0.264 | -.096817             | .0270339  |
| tkplhlpl2    | -.2182365 | .0324091                | -6.73 | 0.000 | -.2831598            | -.1533133 |
| launhlpl     | .2212987  | .0289501                | 7.64  | 0.000 | .1633048             | .2792927  |
| shophlpl     | .1886661  | .0386028                | 4.89  | 0.000 | .1113353             | .2659969  |
| mealhlpl     | .3633231  | .0386587                | 9.40  | 0.000 | .2858804             | .4407657  |
| bankhlpl     | .0741053  | .0331238                | 2.24  | 0.029 | .0077503             | .1404603  |
| eathlpl      | -.0494396 | .0531744                | -0.93 | 0.356 | -.1559608            | .0570816  |
| bathhlpl     | .1375993  | .0511825                | 2.69  | 0.009 | .0350684             | .2401303  |
| toilhlpl     | .1010186  | .0616165                | 1.64  | 0.107 | -.0224142            | .2244513  |
| dreshlpl     | -.0043073 | .0541041                | -0.08 | 0.937 | -.1126908            | .1040762  |
| medshlpl     | .2167914  | .0387892                | 5.59  | 0.000 | .1390872             | .2944956  |
| moneyhlpl    | -.0612134 | .0492585                | -1.24 | 0.219 | -.1598901            | .0374632  |
| dochlpl      | .0747689  | .0290065                | 2.58  | 0.013 | .016662              | .1328759  |
| insurhlpl    | .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<br>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  |
| insdhlpl     | .1180209  | .0754303                | 1.56  | 0.123 | -.0330843            | .269126   |
| bedhlpl      | .1163501  | .0701736                | 1.66  | 0.103 | -.0242244            | .2569246  |
| tkplhlpl1    | .0610301  | .029125                 | 2.10  | 0.041 | .0026857             | .1193744  |
| tkplhlpl2    | .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     |

| 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\_hrsmtth==12

Mean estimation                      Number of obs    =    1,800

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   16.39445    .550631    15.31451    17.47439
-----+-----

```

where op\_ind\_hrs\_mth==11

Mean estimation                      Number of obs    =        333

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   47.38086    2.702981    42.06373    52.69799
-----+-----

```

where op\_ind\_hrs\_mth==10

no observations

where op\_ind\_hrs\_mth==9

Mean estimation                      Number of obs    =       1,007

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |   20.63111    1.104936    18.46287    22.79936
-----+-----

```

where op\_ind\_hrs\_mth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs    =        574

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |           0 (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs    =        735

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_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_hrs_mth_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     |

| ln_opnumda~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .0510626  | .0536515                | 0.95  | 0.345 | -.0564143            | .1585394  |
| bedhlpl      | .0631319  | .0665301                | 0.95  | 0.347 | -.0701439            | .1964078  |
| tkplhlpl1    | -.0497547 | .0276406                | -1.80 | 0.077 | -.1051255            | .0056161  |
| tkplhlpl2    | -.1681828 | .0395341                | -4.25 | 0.000 | -.2473792            | -.0889864 |
| launhlpl     | .3270084  | .0332194                | 9.84  | 0.000 | .260462              | .3935549  |
| shophlpl     | .1905923  | .0345738                | 5.51  | 0.000 | .1213327             | .2598519  |
| mealhlpl     | .3534543  | .0273488                | 12.92 | 0.000 | .298668              | .4082406  |
| bankhlpl     | .0993146  | .035277                 | 2.82  | 0.007 | .0286463             | .169983   |
| eathlpl      | -.0359025 | .0776719                | -0.46 | 0.646 | -.1914981            | .119693   |
| bathhlpl     | .1949194  | .0482308                | 4.04  | 0.000 | .0983016             | .2915372  |
| toilhlpl     | .0027473  | .0697207                | 0.04  | 0.969 | -.1369201            | .1424147  |
| dreshlpl     | -.0097648 | .0460138                | -0.21 | 0.833 | -.1019417            | .082412   |
| medshlpl     | .1743252  | .0378033                | 4.61  | 0.000 | .0985962             | .2500542  |
| moneyhlpl    | -.0836059 | .0462812                | -1.81 | 0.076 | -.1763183            | .0091064  |
| dochlpl      | .0796669  | .0305901                | 2.60  | 0.012 | .0183876             | .1409463  |
| insurhlpl    | -.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     |

| ln_opnumhr~i | Coef.     | Linearized<br>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  |
| insdhlpl     | -.011275  | .0704221                | -0.16 | 0.873 | -.1523475            | .1297974  |
| bedhlpl      | .098848   | .0816599                | 1.21  | 0.231 | -.0647364            | .2624324  |
| tkplhlpl1    | .0166771  | .0258651                | 0.64  | 0.522 | -.0351369            | .0684911  |
| tkplhlpl2    | .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     |

| ln_opdhrsm~i | Linearized |           |       |       |                      |           |
|--------------|------------|-----------|-------|-------|----------------------|-----------|
|              | Coef.      | Std. Err. | t     | P> t  | [95% Conf. Interval] |           |
| <hr/>        |            |           |       |       |                      |           |
| 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\_hrsmtth==12

Mean estimation                      Number of obs      =      1,321

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   14.60043   .5986056    13.42611    15.77475
-----+-----

```

where op\_ind\_hrsnth==11

Mean estimation                      Number of obs   =        292

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   51.84578   2.788372    46.35785    57.33371
-----+-----

```

where op\_ind\_hrsnth==10

no observations

where op\_ind\_hrsnth==9

Mean estimation                      Number of obs   =        543

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |   17.20306   1.063947    15.11309    19.29302
-----+-----

```

where op\_ind\_hrsnth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs   =        557

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_i |           0 (omitted)
-----+-----

```

impute\_cat==3

Mean estimation                      Number of obs   =        654

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrsnth_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_hrsnth_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     |

| ln_opnumda~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .07873    | .0588365                | 1.34  | 0.186 | -.0391337            | .1965938  |
| bedhlpl      | .1407346  | .0772239                | 1.82  | 0.074 | -.0139634            | .2954327  |
| tkplhlpl1    | -.0408184 | .0352763                | -1.16 | 0.252 | -.1114853            | .0298485  |
| tkplhlpl2    | -.1926734 | .0444185                | -4.34 | 0.000 | -.2816543            | -.1036925 |
| launhlpl     | .3361018  | .0436721                | 7.70  | 0.000 | .248616              | .4235875  |
| shophlpl     | .1795895  | .0403436                | 4.45  | 0.000 | .0987715             | .2604075  |
| mealhlpl     | .3269943  | .0485472                | 6.74  | 0.000 | .2297425             | .424246   |
| bankhlpl     | .0927658  | .0340907                | 2.72  | 0.009 | .0244738             | .1610578  |
| eathlpl      | .0586936  | .0728618                | 0.81  | 0.424 | -.0872661            | .2046533  |
| bathhlpl     | .0551923  | .0562128                | 0.98  | 0.330 | -.0574155            | .1678001  |
| toilhlpl     | -.0489541 | .0759147                | -0.64 | 0.522 | -.2010295            | .1031212  |
| dreshlpl     | .0159871  | .0691059                | 0.23  | 0.818 | -.1224487            | .1544229  |
| medshlpl     | .16885    | .0478504                | 3.53  | 0.001 | .072994              | .2647059  |
| moneyhlpl    | -.0710931 | .0587285                | -1.21 | 0.231 | -.1887404            | .0465542  |
| dochlpl      | .1277126  | .0327268                | 3.90  | 0.000 | .062153              | .1932722  |
| insurhlpl    | .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     |

| ln_opnumhr~i | Coef.     | Linearized<br>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  |
| insdhlpl     | .079577   | .0674427                | 1.18  | 0.243 | -.055527             | .214681   |
| bedhlpl      | .3196724  | .082246                 | 3.89  | 0.000 | .1549139             | .4844309  |
| tkplhlpl1    | .0303859  | .0267467                | 1.14  | 0.261 | -.0231941            | .0839659  |
| tkplhlpl2    | .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     |

| 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\_hrsmtth==12

Mean estimation                      Number of obs    =    1,410

```

-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |    15.1476    .5411432    14.08607    16.20914
-----

```

where op\_ind\_hrs\_mth==11

Mean estimation                      Number of obs    =        227

```

-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |    42.59677    3.262759    36.16745    49.02609
-----

```

where op\_ind\_hrs\_mth==10

no observations

where op\_ind\_hrs\_mth==9

Mean estimation                      Number of obs    =        443

```

-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |    17.85096    1.813534    14.28673    21.41518
-----

```

where op\_ind\_hrs\_mth==9999

no observations

impute\_cat==2

Mean estimation                      Number of obs    =        451

```

-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_i |           0  (omitted)
-----

```

impute\_cat==3

Mean estimation                      Number of obs    =        585

```

-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_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_hrs_mth_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

> \_4\_Apr\_2019.smcl

log type: text

closed on: 4 Apr 2019, 13:15:03

-----