



```

-----
      name: <unnamed>
      log:  E:\nhats\nhats_code\NHATS data setup\logs\1a-help_hours_imputation
> _17_Apr_2019.smcl
      log type:  text
      opened on:  17 Apr 2019, 15:31:22

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

```

```

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

      matched                                49,065    (_merge==3)
      -----

```

```

(189 observations deleted)
file R7_OPSPlinked.dta saved

```

```

18.
19.
20. //now create limited datasets for each wave with only needed variables
21. forvalues w=1/$w{
22.     use R`w'_OPSPlinked.dta
23.     if inlist(`w',1,2,3,4){
24.         keep spid opid op`w'* wave w`w'anfinwgt0 w`w'varstr
25.         > at w`w'varunit r`w'dresid ///
26.         > mo`w'douthelp mo`w'dinsdhelp mo`w'dbedhelp sc`w'ddeathelp sc`w'
27.         > dbathhelp ///
28.         > sc`w'dtoilhelp sc`w'ddreshelp ha`w'dlaunreas ha`w'dshopreas ha
29.         > `w'dmealreas ///
30.         > ha`w'dbankreas mc`w'dmedsreas
31.         }
32.         //add new wave to list below
33.     if inrange(`w',5,$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 SP	Survey wave 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 SP	Survey wave 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 SP	Survey wave 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 SP	Survey wave 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 SP	Survey wave 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 _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 ishelfer==-1 & wave==`w', missing
    4.         replace `v'=-1 if ishelfer==-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 & 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
	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
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	-13:Decea	Zero days	op_ind_hrsnth -11:hours	-10:days	-9:days+h	Total
0	16,231	9,398	1,682	103	4,198	287,083
1	0	1	204	0	1	10,243
Total	16,231	9,399	1,886	103	4,199	297,326

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

```

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

```

R1 MO6A HELPS	SP GO OUTSIDE	Freq.	Percent	Cum.
-1 Inapplicable		36,363	95.45	95.45
1 Yes		1,734	4.55	100.00
Total		38,097	100.00	

(36,363 real changes made)

R1 MO19A HELPS	SP INSIDE HOUSE	Freq.	Percent	Cum.
-1 Inapplicable		36,951	96.99	96.99
1 Yes		1,146	3.01	100.00
Total		38,097	100.00	

(36,951 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.

-1 Inapplicable		37,372	98.10	98.10
1 Yes		725	1.90	100.00

Total		38,097	100.00	

(37,372 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.

-1 Inapplicable		34,277	89.97	89.97
1 Yes		3,820	10.03	100.00

Total		38,097	100.00	

(34,277 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.

-1 Inapplicable		36,423	95.61	95.61
1 Yes		1,674	4.39	100.00

Total		38,097	100.00	

(36,423 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.

-1 Inapplicable		34,248	89.90	89.90
1 Yes		3,849	10.10	100.00

Total		38,097	100.00	

(34,248 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.

-1 Inapplicable		32,691	85.81	85.81
1 Yes		5,406	14.19	100.00

Total		38,097	100.00	

(32,691 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.

-1 Inapplicable		33,240	87.25	87.25
1 Yes		4,857	12.75	100.00

Total		38,097	100.00	

(33,240 real changes made)

R1 HA42A HELPS				
SP WITH BANKING		Freq.	Percent	Cum.

-1 Inapplicable		34,595	90.81	90.81
1 Yes		3,502	9.19	100.00

Total		38,097	100.00	

(34,595 real changes made)

R1 SC3A HELPS				
SP WITH EATING		Freq.	Percent	Cum.
-1 Inapplicable		37,466	98.34	98.34
1 Yes		631	1.66	100.00
Total		38,097	100.00	

(37,466 real changes made)

R1 SC11A HELPS				
SP WITH BATHING		Freq.	Percent	Cum.
-1 Inapplicable		37,131	97.46	97.46
1 Yes		966	2.54	100.00
Total		38,097	100.00	

(37,131 real changes made)

R1 SC17A HELPS				
SP WITH TOILETING		Freq.	Percent	Cum.
-1 Inapplicable		37,601	98.70	98.70
1 Yes		496	1.30	100.00
Total		38,097	100.00	

(37,601 real changes made)

R1 SC23A HELPS				
SP WITH DRESSING		Freq.	Percent	Cum.
-1 Inapplicable		36,877	96.80	96.80
1 Yes		1,220	3.20	100.00
Total		38,097	100.00	

(36,877 real changes made)

R1 MC5A HELPS				
SP WITH MEDICINES		Freq.	Percent	Cum.
-1 Inapplicable		36,515	95.85	95.85
1 Yes		1,582	4.15	100.00
Total		38,097	100.00	

(36,515 real changes made)

R1 HA52A HELPS				
SP WITH MONEY		Freq.	Percent	Cum.
-1 Inapplicable		36,906	96.87	96.87
1 Yes		1,191	3.13	100.00
Total		38,097	100.00	

(36,906 real changes made)

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.
-1 Inapplicable		34,631	90.90	90.90
1 Yes		3,466	9.10	100.00
Total		38,097	100.00	

(34,631 real changes made)

R1 MC22A HELPS				
WITH INSUR				
DECIS		Freq.	Percent	Cum.
-1 Inapplicable		37,690	98.93	98.93
1 Yes		407	1.07	100.00

Total		38,097	100.00	
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(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	
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(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	
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(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	
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(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	
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(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	
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(34,791 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING				
		Freq.	Percent	Cum.
-1 Inapplicable		33,637	88.65	88.65
1 Yes		4,307	11.35	100.00
Total		37,944	100.00	

(33,637 real changes made)

R1 HA32A HELPS				
SP WITH MEALS				
		Freq.	Percent	Cum.
-1 Inapplicable		33,840	89.18	89.18
1 Yes		4,104	10.82	100.00
Total		37,944	100.00	

(33,840 real changes made)

R1 HA42A HELPS				
SP WITH BANKING				
		Freq.	Percent	Cum.
-1 Inapplicable		35,151	92.64	92.64
1 Yes		2,793	7.36	100.00
Total		37,944	100.00	

(35,151 real changes made)

R1 SC3A HELPS				
SP WITH EATING				
		Freq.	Percent	Cum.
-1 Inapplicable		36,948	97.38	97.38
1 Yes		996	2.62	100.00
Total		37,944	100.00	

(36,948 real changes made)

R1 SC11A HELPS				
SP WITH BATHING				
		Freq.	Percent	Cum.
-1 Inapplicable		36,479	96.14	96.14
1 Yes		1,465	3.86	100.00
Total		37,944	100.00	

(36,479 real changes made)

R1 SC17A HELPS				
SP WITH TOILETING				
		Freq.	Percent	Cum.
-1 Inapplicable		37,086	97.74	97.74
1 Yes		858	2.26	100.00
Total		37,944	100.00	

(37,086 real changes made)

R1 SC23A HELPS				
SP WITH DRESSING				
		Freq.	Percent	Cum.
-1 Inapplicable		36,411	95.96	95.96
1 Yes		1,533	4.04	100.00
Total		37,944	100.00	

(36,411 real changes made)

R1 MC5A HELPS				
SP WITH				
MEDICINES		Freq.	Percent	Cum.
-1 Inapplicable		36,629	96.53	96.53
1 Yes		1,315	3.47	100.00
Total		37,944	100.00	

(36,629 real changes made)

R1 HA52A HELPS				
SP WITH MONEY		Freq.	Percent	Cum.
-1 Inapplicable		37,034	97.60	97.60
1 Yes		910	2.40	100.00
Total		37,944	100.00	

(37,034 real changes made)

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.
-1 Inapplicable		35,204	92.78	92.78
1 Yes		2,740	7.22	100.00
Total		37,944	100.00	

(35,204 real changes made)

R1 MC22A HELPS				
WITH INSUR				
DECIS		Freq.	Percent	Cum.
-1 Inapplicable		37,670	99.28	99.28
1 Yes		274	0.72	100.00
Total		37,944	100.00	

(37,670 real changes made)

R1 MO6A HELPS				
SP GO OUTSIDE		Freq.	Percent	Cum.
-1 Inapplicable		34,099	95.40	95.40
1 Yes		1,646	4.60	100.00
Total		35,745	100.00	

(34,099 real changes made)

R1 MO19A HELPS				
SP INSIDE HOUSE		Freq.	Percent	Cum.
-1 Inapplicable		34,468	96.43	96.43
1 Yes		1,277	3.57	100.00
Total		35,745	100.00	

(34,468 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.
-1 Inapplicable		34,758	97.24	97.24
1 Yes		987	2.76	100.00
Total		35,745	100.00	

(34,758 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.

-1 Inapplicable		33,064	92.50	92.50
1 Yes		2,681	7.50	100.00

Total		35,745	100.00	

(33,064 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.

-1 Inapplicable		34,376	96.17	96.17
1 Yes		1,369	3.83	100.00

Total		35,745	100.00	

(34,376 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.

-1 Inapplicable		33,148	92.73	92.73
1 Yes		2,597	7.27	100.00

Total		35,745	100.00	

(33,148 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.

-1 Inapplicable		32,111	89.83	89.83
1 Yes		3,634	10.17	100.00

Total		35,745	100.00	

(32,111 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.

-1 Inapplicable		32,304	90.37	90.37
1 Yes		3,441	9.63	100.00

Total		35,745	100.00	

(32,304 real changes made)

R1 HA42A HELPS				
SP WITH BANKING		Freq.	Percent	Cum.

-1 Inapplicable		33,433	93.53	93.53
1 Yes		2,312	6.47	100.00

Total		35,745	100.00	

(33,433 real changes made)

R1 SC3A HELPS				
SP WITH EATING		Freq.	Percent	Cum.

-1 Inapplicable		34,725	97.15	97.15
1 Yes		1,020	2.85	100.00

Total		35,745	100.00	

(34,725 real changes made)

R1 SC11A HELPS				
SP WITH BATHING		Freq.	Percent	Cum.

-1 Inapplicable		34,399	96.23	96.23
1 Yes		1,346	3.77	100.00

Total		35,745	100.00	

(34,399 real changes made)

R1 SC17A HELPS				
SP WITH TOILETING		Freq.	Percent	Cum.

-1 Inapplicable		34,880	97.58	97.58
1 Yes		865	2.42	100.00

Total		35,745	100.00	

(34,880 real changes made)

R1 SC23A HELPS				
SP WITH DRESSING		Freq.	Percent	Cum.

-1 Inapplicable		34,251	95.82	95.82
1 Yes		1,494	4.18	100.00

Total		35,745	100.00	

(34,251 real changes made)

R1 MC5A HELPS				
SP WITH MEDICINES		Freq.	Percent	Cum.

-1 Inapplicable		34,644	96.92	96.92
1 Yes		1,101	3.08	100.00

Total		35,745	100.00	

(34,644 real changes made)

R1 HA52A HELPS				
SP WITH MONEY		Freq.	Percent	Cum.

-1 Inapplicable		34,973	97.84	97.84
1 Yes		772	2.16	100.00

Total		35,745	100.00	

(34,973 real changes made)

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.

-1 Inapplicable		33,422	93.50	93.50
1 Yes		2,323	6.50	100.00

Total		35,745	100.00	

(33,422 real changes made)

R1 MC22A HELPS				
WITH INSUR DECIS		Freq.	Percent	Cum.

-1 Inapplicable		35,516	99.36	99.36
1 Yes		229	0.64	100.00

Total		35,745	100.00	

(35,516 real changes made)

R1 MO6A HELPS				
SP GO OUTSIDE		Freq.	Percent	Cum.
-1 Inapplicable		31,583	95.66	95.66
1 Yes		1,433	4.34	100.00
Total		33,016	100.00	

(31,583 real changes made)

R1 MO19A HELPS				
SP INSIDE HOUSE		Freq.	Percent	Cum.
-1 Inapplicable		31,894	96.60	96.60
1 Yes		1,122	3.40	100.00
Total		33,016	100.00	

(31,894 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.
-1 Inapplicable		32,139	97.34	97.34
1 Yes		877	2.66	100.00
Total		33,016	100.00	

(32,139 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.
-1 Inapplicable		30,769	93.19	93.19
1 Yes		2,247	6.81	100.00
Total		33,016	100.00	

(30,769 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.
-1 Inapplicable		31,867	96.52	96.52
1 Yes		1,149	3.48	100.00
Total		33,016	100.00	

(31,867 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.
-1 Inapplicable		30,847	93.43	93.43
1 Yes		2,169	6.57	100.00
Total		33,016	100.00	

(30,847 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.
-1 Inapplicable		30,036	90.97	90.97
1 Yes		2,980	9.03	100.00
Total		33,016	100.00	

(30,036 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.
-1 Inapplicable		30,131	91.26	91.26
1 Yes		2,885	8.74	100.00
Total		33,016	100.00	

(30,131 real changes made)

R1 HA42A HELPS				
SP WITH BANKING		Freq.	Percent	Cum.
-1 Inapplicable		31,080	94.14	94.14
1 Yes		1,936	5.86	100.00
Total		33,016	100.00	

(31,080 real changes made)

R1 SC3A HELPS				
SP WITH EATING		Freq.	Percent	Cum.
-1 Inapplicable		32,104	97.24	97.24
1 Yes		912	2.76	100.00
Total		33,016	100.00	

(32,104 real changes made)

R1 SC11A HELPS				
SP WITH BATHING		Freq.	Percent	Cum.
-1 Inapplicable		31,910	96.65	96.65
1 Yes		1,106	3.35	100.00
Total		33,016	100.00	

(31,910 real changes made)

R1 SC17A HELPS				
SP WITH TOILETING		Freq.	Percent	Cum.
-1 Inapplicable		32,329	97.92	97.92
1 Yes		687	2.08	100.00
Total		33,016	100.00	

(32,329 real changes made)

R1 SC23A HELPS				
SP WITH DRESSING		Freq.	Percent	Cum.
-1 Inapplicable		31,704	96.03	96.03
1 Yes		1,312	3.97	100.00
Total		33,016	100.00	

(31,704 real changes made)

R1 MC5A HELPS				
SP WITH MEDICINES		Freq.	Percent	Cum.
-1 Inapplicable		32,033	97.02	97.02
1 Yes		983	2.98	100.00
Total		33,016	100.00	

(32,033 real changes made)

R1 HA52A HELPS				
SP WITH MONEY		Freq.	Percent	Cum.

-1 Inapplicable		32,285	97.79	97.79
1 Yes		731	2.21	100.00

Total		33,016	100.00	

(32,285 real changes made)

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.

-1 Inapplicable		31,006	93.91	93.91
1 Yes		2,010	6.09	100.00

Total		33,016	100.00	

(31,006 real changes made)

R1 MC22A HELPS				
WITH INSUR				
DECIS		Freq.	Percent	Cum.

-1 Inapplicable		32,766	99.24	99.24
1 Yes		250	0.76	100.00

Total		33,016	100.00	

(32,766 real changes made)

R1 MO6A HELPS				
SP GO OUTSIDE		Freq.	Percent	Cum.

-1 Inapplicable		50,225	96.06	96.06
1 Yes		2,060	3.94	100.00

Total		52,285	100.00	

(50,225 real changes made)

R1 MO19A HELPS				
SP INSIDE HOUSE		Freq.	Percent	Cum.

-1 Inapplicable		50,773	97.11	97.11
1 Yes		1,512	2.89	100.00

Total		52,285	100.00	

(50,773 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.

-1 Inapplicable		51,201	97.93	97.93
1 Yes		1,084	2.07	100.00

Total		52,285	100.00	

(51,201 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.

-1 Inapplicable		48,505	92.77	92.77
1 Yes		3,780	7.23	100.00

Total		52,285	100.00	

(48,505 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.
-1 Inapplicable		50,442	96.48	96.48
1 Yes		1,843	3.52	100.00
Total		52,285	100.00	

(50,442 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.
-1 Inapplicable		48,357	92.49	92.49
1 Yes		3,928	7.51	100.00
Total		52,285	100.00	

(48,357 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.
-1 Inapplicable		46,731	89.38	89.38
1 Yes		5,554	10.62	100.00
Total		52,285	100.00	

(46,731 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.
-1 Inapplicable		47,057	90.00	90.00
1 Yes		5,228	10.00	100.00
Total		52,285	100.00	

(47,057 real changes made)

R1 HA42A HELPS				
SP WITH BANKING		Freq.	Percent	Cum.
-1 Inapplicable		48,892	93.51	93.51
1 Yes		3,393	6.49	100.00
Total		52,285	100.00	

(48,892 real changes made)

R1 SC3A HELPS				
SP WITH EATING		Freq.	Percent	Cum.
-1 Inapplicable		51,286	98.09	98.09
1 Yes		999	1.91	100.00
Total		52,285	100.00	

(51,286 real changes made)

R1 SC11A HELPS				
SP WITH BATHING		Freq.	Percent	Cum.
-1 Inapplicable		50,903	97.36	97.36
1 Yes		1,382	2.64	100.00
Total		52,285	100.00	

(50,903 real changes made)

R1 SC17A HELPS				
SP WITH				
TOILETING		Freq.	Percent	Cum.
-1 Inapplicable		51,502	98.50	98.50
1 Yes		783	1.50	100.00
Total		52,285	100.00	

(51,502 real changes made)

R1 SC23A HELPS				
SP WITH				
DRESSING		Freq.	Percent	Cum.
-1 Inapplicable		50,533	96.65	96.65
1 Yes		1,752	3.35	100.00
Total		52,285	100.00	

(50,533 real changes made)

R1 MC5A HELPS				
SP WITH				
MEDICINES		Freq.	Percent	Cum.
-1 Inapplicable		50,666	96.90	96.90
1 Yes		1,619	3.10	100.00
Total		52,285	100.00	

(50,666 real changes made)

R1 HA52A HELPS				
SP WITH MONEY		Freq.	Percent	Cum.
-1 Inapplicable		51,075	97.69	97.69
1 Yes		1,210	2.31	100.00
Total		52,285	100.00	

(51,075 real changes made)

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.
-1 Inapplicable		48,781	93.30	93.30
1 Yes		3,504	6.70	100.00
Total		52,285	100.00	

(48,781 real changes made)

R1 MC22A HELPS				
WITH INSUR				
DECIS		Freq.	Percent	Cum.
-1 Inapplicable		51,894	99.25	99.25
1 Yes		391	0.75	100.00
Total		52,285	100.00	

(51,894 real changes made)

R1 MO6A HELPS				
SP GO OUTSIDE		Freq.	Percent	Cum.
-1 Inapplicable		49,066	95.88	95.88
1 Yes		2,108	4.12	100.00
Total		51,174	100.00	

(49,066 real changes made)

R1 MO19A HELPS				
SP INSIDE HOUSE		Freq.	Percent	Cum.

-1 Inapplicable		49,578	96.88	96.88
1 Yes		1,596	3.12	100.00

Total		51,174	100.00	

(49,578 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.

-1 Inapplicable		49,915	97.54	97.54
1 Yes		1,259	2.46	100.00

Total		51,174	100.00	

(49,915 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.

-1 Inapplicable		47,690	93.19	93.19
1 Yes		3,484	6.81	100.00

Total		51,174	100.00	

(47,690 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.

-1 Inapplicable		49,390	96.51	96.51
1 Yes		1,784	3.49	100.00

Total		51,174	100.00	

(49,390 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.

-1 Inapplicable		47,738	93.29	93.29
1 Yes		3,436	6.71	100.00

Total		51,174	100.00	

(47,738 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.

-1 Inapplicable		46,370	90.61	90.61
1 Yes		4,804	9.39	100.00

Total		51,174	100.00	

(46,370 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.

-1 Inapplicable		46,584	91.03	91.03
1 Yes		4,590	8.97	100.00

Total		51,174	100.00	

(46,584 real changes made)

R1 HA42A HELPS			
SP WITH BANKING	Freq.	Percent	Cum.

-1 Inapplicable	48,291	94.37	94.37
1 Yes	2,883	5.63	100.00

Total	51,174	100.00	
(48,291 real changes made)			

R1 SC3A HELPS			
SP WITH EATING	Freq.	Percent	Cum.

-1 Inapplicable	50,058	97.82	97.82
1 Yes	1,116	2.18	100.00

Total	51,174	100.00	
(50,058 real changes made)			

R1 SC11A HELPS			
SP WITH BATHING	Freq.	Percent	Cum.

-1 Inapplicable	49,655	97.03	97.03
1 Yes	1,519	2.97	100.00

Total	51,174	100.00	
(49,655 real changes made)			

R1 SC17A HELPS			
SP WITH TOILETING	Freq.	Percent	Cum.

-1 Inapplicable	50,203	98.10	98.10
1 Yes	971	1.90	100.00

Total	51,174	100.00	
(50,203 real changes made)			

R1 SC23A HELPS			
SP WITH DRESSING	Freq.	Percent	Cum.

-1 Inapplicable	49,318	96.37	96.37
1 Yes	1,856	3.63	100.00

Total	51,174	100.00	
(49,318 real changes made)			

R1 MC5A HELPS			
SP WITH MEDICINES	Freq.	Percent	Cum.

-1 Inapplicable	49,779	97.27	97.27
1 Yes	1,395	2.73	100.00

Total	51,174	100.00	
(49,779 real changes made)			

R1 HA52A HELPS			
SP WITH MONEY	Freq.	Percent	Cum.

-1 Inapplicable	50,138	97.98	97.98
1 Yes	1,036	2.02	100.00

Total	51,174	100.00	
(50,138 real changes made)			

R1 MC17A SITS				
IN W SP AT DRS		Freq.	Percent	Cum.
-1 Inapplicable		48,004	93.81	93.81
1 Yes		3,170	6.19	100.00
Total		51,174	100.00	

(48,004 real changes made)

R1 MC22A HELPS				
WITH INSUR				
DECIS		Freq.	Percent	Cum.
-1 Inapplicable		50,822	99.31	99.31
1 Yes		352	0.69	100.00
Total		51,174	100.00	

(50,822 real changes made)

R1 MO6A HELPS				
SP GO OUTSIDE		Freq.	Percent	Cum.
-1 Inapplicable		47,332	96.47	96.47
1 Yes		1,733	3.53	100.00
Total		49,065	100.00	

(47,332 real changes made)

R1 MO19A HELPS				
SP INSIDE HOUSE		Freq.	Percent	Cum.
-1 Inapplicable		47,702	97.22	97.22
1 Yes		1,363	2.78	100.00
Total		49,065	100.00	

(47,702 real changes made)

R1 MO25A HELPS				
SP OUT OF BED		Freq.	Percent	Cum.
-1 Inapplicable		47,998	97.83	97.83
1 Yes		1,067	2.17	100.00
Total		49,065	100.00	

(47,998 real changes made)

R1 DT5A TAKES				
SP PLACES MOST		Freq.	Percent	Cum.
-1 Inapplicable		46,068	93.89	93.89
1 Yes		2,997	6.11	100.00
Total		49,065	100.00	

(46,068 real changes made)

R1 DT7A TAKES				
SP PLACES OTH		Freq.	Percent	Cum.
-1 Inapplicable		47,543	96.90	96.90
1 Yes		1,522	3.10	100.00
Total		49,065	100.00	

(47,543 real changes made)

R1 HA3A HELPS				
SP WITH LAUNDRY		Freq.	Percent	Cum.
-1 Inapplicable		46,118	93.99	93.99
1 Yes		2,947	6.01	100.00
Total		49,065	100.00	

(46,118 real changes made)

R1 HA25A HELPS				
SP WITH SHOPPING		Freq.	Percent	Cum.
-1 Inapplicable		44,920	91.55	91.55
1 Yes		4,145	8.45	100.00
Total		49,065	100.00	

(44,920 real changes made)

R1 HA32A HELPS				
SP WITH MEALS		Freq.	Percent	Cum.
-1 Inapplicable		45,082	91.88	91.88
1 Yes		3,983	8.12	100.00
Total		49,065	100.00	

(45,082 real changes made)

R1 HA42A HELPS				
SP WITH BANKING		Freq.	Percent	Cum.
-1 Inapplicable		46,577	94.93	94.93
1 Yes		2,488	5.07	100.00
Total		49,065	100.00	

(46,577 real changes made)

R1 SC3A HELPS				
SP WITH EATING		Freq.	Percent	Cum.
-1 Inapplicable		48,024	97.88	97.88
1 Yes		1,041	2.12	100.00
Total		49,065	100.00	

(48,024 real changes made)

R1 SC11A HELPS				
SP WITH BATHING		Freq.	Percent	Cum.
-1 Inapplicable		47,720	97.26	97.26
1 Yes		1,345	2.74	100.00
Total		49,065	100.00	

(47,720 real changes made)

R1 SC17A HELPS				
SP WITH TOILETING		Freq.	Percent	Cum.
-1 Inapplicable		48,318	98.48	98.48
1 Yes		747	1.52	100.00
Total		49,065	100.00	

(48,318 real changes made)

R1 SC23A HELPS			
SP WITH			
DRESSING	Freq.	Percent	Cum.
-1 Inapplicable	47,470	96.75	96.75
1 Yes	1,595	3.25	100.00
Total	49,065	100.00	

(47,470 real changes made)

R1 MC5A HELPS			
SP WITH			
MEDICINES	Freq.	Percent	Cum.
-1 Inapplicable	47,841	97.51	97.51
1 Yes	1,224	2.49	100.00
Total	49,065	100.00	

(47,841 real changes made)

R1 HA52A HELPS			
SP WITH MONEY	Freq.	Percent	Cum.
-1 Inapplicable	48,157	98.15	98.15
1 Yes	908	1.85	100.00
Total	49,065	100.00	

(48,157 real changes made)

R1 MC17A SITS			
IN W SP AT DRS	Freq.	Percent	Cum.
-1 Inapplicable	46,353	94.47	94.47
1 Yes	2,712	5.53	100.00
Total	49,065	100.00	

(46,353 real changes made)

R1 MC22A HELPS			
WITH INSUR			
DECIS	Freq.	Percent	Cum.
-1 Inapplicable	48,784	99.43	99.43
1 Yes	281	0.57	100.00
Total	49,065	100.00	

(48,784 real changes made)

95.

96. //generate variable indicating help with only one activity

97. gen numact=.

(297,326 missing values generated)

98. forvalues w=1/\$w{

2. replace numact=outhlp + insdhlp + bedhlp + tkplhlpl + tkplhlpl2 + 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 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 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 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
<hr/>			
Total	19,590	56,451	76,041

R1 OTHR PRSN RELATIONSHIP TO SP	Non-relative		Total
	0	1	
<hr/>			
-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 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 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 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 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 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 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 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 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 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 relative	Survey wave					Total
	1	2	3	4	5	
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 relative	Survey wave		Total
	6	7	
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 ve	Survey wave					Total
	1	2	3	4	5	
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 ve	Survey wave		Total
	6	7	
0	37,590	34,760	227,695
1	13,584	14,305	69,631
Total	51,174	49,065	297,326

124

125 *****

126 //generate variables indicating help w/ adls & iadls

127 local adl insd bed eat bath toil dres

128 local iadl laun shop meal bank meds

129 local nonadl out money tkpl

130

131 gen tkplhlp=.

(297,326 missing values generated)

132 forvalues w=1/\$w{

2. replace tkplhlp=tkplhlp1==1 | tkplhlp2==1 if wave=='w'

3. }

(38,097 real changes made)

(37,944 real changes made)

(35,745 real changes made)

(33,016 real changes made)

(52,285 real changes made)

(51,174 real changes made)

(49,065 real changes made)

```

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

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

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

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

```

```

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

```

```
139
```

```
140 *****
```

```
141 //generate variables indicating help on a regular schedule
```

```
142 gen regular=.
```

```
(297,326 missing values generated)
```

```
143 forvalues w=1/$w{
```

```
    2. replace regular=0 if wave==`w'
```

```
    3. replace regular=1 if helpsched==1 & wave==`w'
```

```
    4. }
```

```
(38,097 real changes made)
```

```
(3,198 real changes made)
```

```
(37,944 real changes made)
```

```
(2,832 real changes made)
```

```
(35,745 real changes made)
```

```
(2,077 real changes made)
```

```
(33,016 real changes made)
```

```
(1,713 real changes made)
```

```
(52,285 real changes made)
```

```
(2,800 real changes made)
```

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

144 tab regular wave, missing

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 & 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 & 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 yeartotmonth 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_hrs_mth_i=0
    5. replace op_hrs_mth_i=dhrs_mth if impute_cat==4 //use actual value
    6. replace op_hrs_mth_i=0 if impute_cat==2 //set to zero
    7. replace op_hrs_mth_i=(.5*numdayswk*4.3) if impute_cat==3 & helpsched==1 //as
    > sign small hours
    8. replace op_hrs_mth_i=(.5*numdaysmn) if impute_cat==3 & inlist(helpsched,2,-7
    > ,-8) //assign small hours
    9.
206 //impute where op_ind_hrs_mth=-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_hrs_mth==-10
    16. gen op_numdays_i2=exp(ln_opnumdays_i2) if impute_cat==1 & op_ind_hrs_mth==-1
    > 0
    17. replace op_hrs_mth_i= op_numdays_i2*numhrsday if impute_cat==1 & ///
    > op_ind_hrs_mth==-10 & numhrsday>=1
    18. replace op_hrs_mth_i= op_numdays_i2*.5 if impute_cat==1 & ///
    > op_ind_hrs_mth==-10 & numhrsday==0
    19.
211 //impute where op_ind_hrs_mth=-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_hrs_mth==-11
    25. gen op_numhrsday_i2=exp(ln_opnumhrsday_i2) if impute_cat==1 & op_ind_hrs_mth
    > ==-11
    26. replace op_hrs_mth_i=numdayswk*4.3*op_numhrsday_i2 if impute_cat==1 & ///
    > op_ind_hrs_mth==-11 & helpsched==1
    27. replace op_hrs_mth_i=numdaysmn*op_numhrsday_i2 if impute_cat==1 & ///
    > op_ind_hrs_mth==-11 & inlist(helpsched,2,-7,-8) & numdaysmn>=1
    28. replace op_hrs_mth_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 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 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   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 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 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

mealhlp		.0836207	.0212575	3.93	0.000	.0410369	.1262045
bankhlp		.0376569	.0317728	1.19	0.241	-.0259917	.1013054
eatshlp		.0455212	.0600505	0.76	0.452	-.0747744	.1658167
bathhlp		-.0131934	.0594477	-0.22	0.825	-.1322815	.1058947
toilhlp		.4056612	.0899065	4.51	0.000	.2255569	.5857656
dreshlp		.1041839	.0643222	1.62	0.111	-.0246669	.2330367
medshlp		.1877458	.0442265	4.25	0.000	.0991495	.2763421
moneyhlp		-.0967339	.0355409	-2.72	0.009	-.1679308	-.0255369
dochlp		.1360582	.0272687	4.99	0.000	.0814325	.1906839
insurhlp		-.0653032	.0677158	-0.96	0.339	-.2009542	.0703479
cons		.3997065	.0472892	8.45	0.000	.3049748	.4944383

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

Survey: Linear regression

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

ln_opdhrsm~i	Coef.	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
spouse	.5911696	.0755809	7.82	0.000	.4397629	.7425764
otherrel	.1652982	.041619	3.97	0.000	.0819253	.2486712
regular	.9730144	.0447618	21.74	0.000	.8833458	1.062683
yearnotmonth	-.3642374	.0818792	-4.45	0.000	-.5282611	-.2002136
oneact	-.3623332	.0593025	-6.11	0.000	-.4811303	-.243536
disab	.2385008	.0527728	4.52	0.000	.1327841	.3442174
outhlp	.140161	.051351	2.73	0.008	.0372926	.2430295
insdhlp	.2534953	.0660306	3.84	0.000	.1212201	.3857706
bedhlp	.2923894	.0947284	3.09	0.003	.1026257	.4821531
tkplhlpl1	-.0014302	.0525153	-0.03	0.978	-.106631	.1037707
tkplhlpl2	-.1604523	.0475711	-3.37	0.001	-.2557487	-.065156
launhlp	.5482365	.0459304	11.94	0.000	.4562268	.6402462
shophlp	.2814609	.0499342	5.64	0.000	.1814307	.3814911
mealhlp	.3982719	.0492188	8.09	0.000	.2996748	.496869
bankhlp	.1234857	.0466837	2.65	0.011	.0299671	.2170043
eathlp	.1429649	.0767003	1.86	0.068	-.0106843	.2966142
bathhlp	.0256077	.0799294	0.32	0.750	-.1345101	.1857255
toilhlp	.311989	.1246332	2.50	0.015	.0623188	.5616592
dresslp	.1574869	.0843045	1.87	0.067	-.0113954	.3263692
medshlp	.3424555	.0622914	5.50	0.000	.2176709	.4672402
moneyhlp	-.1531767	.0598071	-2.56	0.013	-.2729847	-.0333686
dochlp	.1875215	.0399896	4.69	0.000	.1074126	.2676304
insurhlp	-.0834532	.1090395	-0.77	0.447	-.3018856	.1349791
cons	1.683443	.0679383	24.78	0.000	1.547346	1.81954

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

Mean estimation Number of obs = 965

```

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

```

where op_ind_hrs_mth==11

Mean estimation Number of obs = 324

```

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

```

where op_ind_hrs_mth==10

no observations

where op_ind_hrs_mth==9

Mean estimation Number of obs = 558

```

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

```

where op_ind_hrs_mth==9999

no observations

impute_cat==2

Mean estimation Number of obs = 310

```

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

```

impute_cat==3

Mean estimation Number of obs = 391

```

-----+-----
|          Mean   Std. Err.   [95% Conf. Interval]
-----+-----
op_hrs_mth_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_hrs_mth_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 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 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 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 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 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 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	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	

spouse	.4536604	.073592	6.16	0.000	.306238	.6010829
otherrel	.2065249	.0521263	3.96	0.000	.1021034	.3109464
regular	.790101	.0390671	20.22	0.000	.7118402	.8683617
yearnotmonth	-.3670133	.0976008	-3.76	0.000	-.5625312	-.1714954
oneact	-.2768939	.045739	-6.05	0.000	-.3685201	-.1852677
disab	.1605451	.0484559	3.31	0.002	.0634761	.257614
outhlp	.2920174	.0586137	4.98	0.000	.1746001	.4094347
insdhlp	.0397509	.0879909	0.45	0.653	-.136516	.2160179
bedhlp	.1619602	.1083996	1.49	0.141	-.0551904	.3791108
tkplhlp1	-.0330361	.0360162	-0.92	0.363	-.1051852	.039113
tkplhlp2	-.0478953	.0601322	-0.80	0.429	-.1683546	.0725641
launhlp	.6358293	.0475979	13.36	0.000	.5404793	.7311793
shophlp	.2820104	.0514042	5.49	0.000	.1790355	.3849853
mealhlp	.4432068	.0406994	10.89	0.000	.3616762	.5247375
bankhlp	.1534428	.05023	3.05	0.003	.05282	.2540656
eathlp	.2308379	.1271797	1.82	0.075	-.0239336	.4856094
bathhlp	.3680337	.0732102	5.03	0.000	.2213761	.5146913
toilhlp	.4149913	.1158009	3.58	0.001	.1830141	.6469684
dreshlp	-.0109794	.0757266	-0.14	0.885	-.1626781	.1407193
medshlp	.3694551	.0514916	7.18	0.000	.2663051	.4726052
moneyhlp	-.1946445	.0650765	-2.99	0.004	-.3250084	-.0642806
dochlp	.2316588	.0406575	5.70	0.000	.1502121	.3131055
insurhlp	-.2065758	.1260639	-1.64	0.107	-.4591122	.0459606
_cons	1.65155	.0867992	19.03	0.000	1.47767	1.82543

(option xb assumed; fitted values)
(49,310 missing values generated)
(49,310 missing values generated)
(1,864 real changes made)
(40,006 real changes made)
where op_ind_hrsmtth==12

Mean estimation Number of obs = 1,321

```

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

```

where op_ind_hrs_mth==11

Mean estimation Number of obs = 292

```

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

```

where op_ind_hrs_mth==10

no observations

where op_ind_hrs_mth==9

Mean estimation Number of obs = 543

```

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

```

where op_ind_hrs_mth==9999

no observations

impute_cat==2

Mean estimation Number of obs = 557

```

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

```

impute_cat==3

Mean estimation Number of obs = 654

```

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

```

where op_ind_hrsnth==11

Mean estimation Number of obs = 227

```

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

```

where op_ind_hrsnth==10

no observations

where op_ind_hrsnth==9

Mean estimation Number of obs = 443

```

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

```

where op_ind_hrsnth==9999

no observations

impute_cat==2

Mean estimation Number of obs = 451

```

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

```

impute_cat==3

Mean estimation Number of obs = 585

```

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

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