HEALTH AND RETIREMENT STUDY
2012 Core
Final, Version 3.0
March 2020

Data Description and Usage
# TABLE OF CONTENTS

| TABLE OF CONTENTS ........................................................... | III |
| 1. OVERVIEW ................................................................... | 1 |
| 1A. THE SAMPLE INTERVIEWED IN 2012 ............................................... | 1 |
| 1B. 2012 QUESTIONNAIRE SECTIONS ................................................. | 2 |
| 1C. LEVELS OF FILES ................................................................... | 2 |
| 1C1. Household Level Files ................................................ | 3 |
| 1C2. Respondent Level Files ............................................... | 3 |
| 1C3. Sibling Level File ............................................................ | 3 |
| 1C4. Household Member and Child Level Files ............................... | 3 |
| 1C5. Helper Level File .................................................... | 3 |
| 1C6. Transfer-to-Child-Level File ......................................... | 3 |
| 1C7. Transfer-from-Child-Level-File ....................................... | 4 |
| 1C8. Pension Level Files .................................................. | 4 |
| 1C9. Jobs level files ..................................................... | 4 |
| 2. FILE NAMING CONVENTIONS .................................................... | 4 |
| 3. DATA FILES ................................................................ | 5 |
| 4. IDENTIFICATION VARIABLES ................................................... | 6 |
| 4A. PRIMARY IDENTIFICATION VARIABLES .............................................. | 6 |
| 4A1. HHID – Household Identification Number ........................................... | 6 |
| 4A2. NSUBHH – 2012 Sub-household Identifier ........................................... | 6 |
| 4A3. PN – Person Number ................................................... | 6 |
| 4A4. OPN – Other Person Number. ........................................... | 6 |
| 4B. PRIMARY IDENTIFICATION VARIABLES FOR DATASETS AT EACH OF THE NINE LEVELS | 7 |
| 4C. SECONDARY IDENTIFICATION VARIABLES ............................................ | 7 |
| 4D. DATASETS INCLUDING NSUBHH AND OPN AS PRIMARY IDENTIFIERS .................................................................................. | 8 |
| 5. DISTRIBUTION FILES AND DIRECTORY STRUCTURE ................................. | 8 |
| 5A. DISTRIBUTION FILES ......................................................... | 8 |
| 5B. DIRECTORY STRUCTURE ........................................................ | 9 |
| 6. PROGRAM STATEMENTS ......................................................... | 9 |
| 6A. USING THE FILES WITH SAS .................................................... | 9 |
| 6B. USING THE FILES WITH SPSS .................................................. | 10 |
| 6C. USING THE FILES WITH STATA ................................................. | 10 |
| 7. DOCUMENTATION ................................................................ | 10 |
| 7A. Codebook ................................................................ | 10 |
| 7A1. Variable Names ................................................................ | 10 |
| 7A2. Other Types of Documentation ........................................ | 12 |
| 7B. MASTER CODES ................................................................ | 12 |
| 8. ADDITIONAL NOTES ................................................................ | 12 |
| 8A. HOUSEHOLDS WITH NO FAMILY OR FINANCIAL RESPONDENTS .............. | 13 |
| 8B. UNFOLDING BRACKET VARIABLES AND IMPUTATIONS ...................... | 13 |
| 8C. MODULES FOR THE 2012 DATA COLLECTION ..................................... | 15 |
| 8D. EXPLANATION OF THE DIFFERENCE BETWEEN TRACKER AND CORE DATA RELEASES ......................................................... | 15 |
| 8E. ENHANCED FACE-TO-FACE SAMPLE DESIGN AND CONTENT ................ | 16 |
| 8F. CHANGES TO 2012 CORE, VERSION 3.0 .......................................... | 17 |
| 8G. ERRATA ................................................................ | 17 |
| 8H. SUMMARY OF DATA MODEL (DM) CHANGES DURING 2012 PRODUCTION ........ | 18 |
# Section 8

## Pension Section for 2012

19

## New Questions in HRS 2012

20

# Section 9

## Obtaining the Data

21

### 9a. Registration and Downloading the Data

21

### 9b. Conditions of Use

21

### 9c. Publications Based on Data

22

# Section 10

## If You Need to Know More

22

### 10a. HRS Internet Site

22

### 10b. Contact Information:

22

# Appendix

## Examples of Sub-Household and Respondent Person Number and Other Person Number Assignments

I

### A1. Married Couple Stays Married

I

### A2. Couple Divorces

II

### A3. One or Both Respondents Die

II

### A4. Single Respondent Marries

II

### A5. Couple Divorces, One Respondent Remarries and Divorces

III

### A6. Couple Divorces and Marries Again

IV

### A7. Married Couple with Children and Siblings

IV

### A8. Couple with Children and Siblings Divorces

V

### A9. Couple Divorces, One Respondent Remarries, Both Split-off Households Have New Members

VI

## Master Codes

VI

### B1. Health Conditions - Categorical

VI

### B2. Occupation Codes

X

### B3. Industry Codes

XXII

## State and Country Codes

XXVIII

### C1. States

XXVIII

### C2. Other U.S.

XXIX

### C3. Other Countries

XXIX
Data Description and Usage

1. Overview

The 2012 HRS Core (Final, Version 3.0) data release consists of data obtained as part of the Health and Retirement Study (HRS), a national longitudinal study of the economic, health, marital, and family status, as well as public and private support systems, of older Americans. The National Institute on Aging provided funding (NIH U01 AG09740), with supplemental support from the Social Security Administration. The Institute for Social Research (ISR) Survey Research Center (SRC) at the University of Michigan conducted the survey.

By receiving the data, which have been freely provided, you agree to use them for research and statistical purposes only and make no effort to identify the respondents. In addition, you agree to send us a copy of any publications you produce based on the data. See Obtaining the Data for additional details.

1A. The Sample Interviewed in 2012

The data collection period for the 2012 interview was April 2012 through April 2013. The HRS sample is comprised of six sub-samples (HRS, AHEAD, CODA, WAR BABY, EARLY BABY BOOMER and MIDDLE BABY BOOMER).

The first sub-sample, the HRS sub-sample, consists of people who were born 1931 through 1941 and were household residents of the conterminous U.S. in the spring 1992, and their spouses or partners at the time of the initial interview in 1992 or at the time of any subsequent interview. The HRS sub-sample was interviewed in 1992 and every two years thereafter.

The AHEAD sub-sample consists of people who were born in 1923 or earlier, were household residents of the conterminous U.S. in the spring 1992, and were still household residents at the time of their first interview in 1993 or 1994, and their spouses or partners at the time of the initial interview or at the time of any subsequent interview. The AHEAD sub-sample was interviewed in 1993-94, 1995-96, 1998 and every two years thereafter.

The War Baby (WB) sub-sample consists of people who were born in 1942 through 1947, were household residents of the conterminous U.S. in the spring 1992, who, at that time, did not have a spouse or partner born before 1924 or between 1931 and 1941, and were still household residents at the time of the first interview in 1998, and their spouses or partners at the time of the initial interview or at the time of any subsequent interview. The War Baby sub-sample was interviewed in 1998 and every two years thereafter.

The Children of the Depression (CODA) sub-sample consists of people who were born in 1924 through 1930, were household residents of the conterminous U.S. when first interviewed in 1998, and who, at that time, did not have a spouse or partner who was born before 1924 or between 1931 and 1947, and their spouses or partners at the time of the initial interview or at the time of any subsequent interview. The Children of the Depression sub-sample was interviewed in 1998 and every two years thereafter.

The Early Baby Boomer (EBB) sub-sample consists of people who were born in 1948 through 1953, were household residents of the U.S. when first interviewed in 2004, and who, at that time, did not have a spouse or partner who was born before 1948, and their spouses or partners at the time of the initial interview
or at the time of any subsequent interview. The Early Baby Boomer sub-sample was interviewed in 2004 and every two years thereafter.

The Mid Baby Boomer (MBB) sub-sample consists of people who were born between 1954 and 1959, were household residents of the U.S. when first interviewed in 2010/2011, and who, at that time, did not have a spouse or partner who was born before 1954, along with their spouses or partners at the time of the initial interview or at the time of any subsequent interview. The Middle Baby Boomer sub-sample was interviewed in 2010/2011 and every two years thereafter.

Both the EBB and MBB sub-samples were supplemented in the 2010 wave with a sample of individuals residing in areas with 10% or higher concentrations of Black and/or Hispanic populations in order to boost the size of the minority samples in those cohorts.

Original sample members are those selected as described above and their spouses or partners at the time of the initial interview in 1992 (HRS), 1993 (AHEAD), 1998 (CODA or WB), 2004 (EBB) or 2010/2011 (MBB). For more details about the sample, see our Web site.

1B. 2012 Questionnaire Sections

2012 Section       Content
PR                Preload
A                 Coverscreen
B                 Demographics
C                 Physical Health
D                 Cognition
E                 Family Structure
F                 Parents, Siblings and Transfers
G                 Functional Limitations and Helpers
H                 Housing
I                 Physical Measures
J                 Employment
K                 Last Job
L                 Job History
M                 Disability
N                 Health Services and Insurance
P                 Expectations
Q                 Assets and Income
R                 Asset Change
S                 Widowhood and Divorce
T                 Wills and Life Insurance
U                 Asset Reconciliation
V                 Modules
W                 Event History, Internet Use and Social Security
RC                Repeat Cognition
Y                 Time Calculations
IO                Interviewer Observations
LB                Leave-Behind Questionnaires
TN                Thumbnails

1C. Levels of Files

In the 2012 data collection instrument, most questions were asked of all respondents. Some questions were asked about the household. For two-respondent households, household level questions were asked of one respondent who was
designated as the financial respondent, family respondent, or coverscreen respondent (the first respondent interviewed) on behalf of the entire household.

In addition to the familiar household-level and respondent-level files, the 2012 HRS Core (Final, Version 3.0) contains files at seven other levels: household-member-and-child, sibling, helper, transfer-to-child, transfer-from-child, jobs (new for 2012), and pension (also new for 2012).

1C1. Household Level Files
Household-level files contain questions that were asked about the household of a designated coverscreen, financial, or family respondent. A coverscreen respondent answered family questions (section A) on behalf of the entire household; the coverscreen respondent may or may not be the family respondent. A family respondent answered family questions (section E) on behalf of the entire household, and a financial respondent answered household-level financial questions (sections H, Q, R and U) on behalf of the entire household. The household-level files contain one record for each household in which at least one interview was obtained in 2012.

1C2. Respondent Level Files
Respondent-level files contain questions that were asked of all respondents about themselves (or asked of a proxy about the respondent if the respondent was not able to give an interview). The files contain one record for each respondent or proxy who gave an interview in 2012.

1C3. Sibling Level File
The sibling file consists of characteristics of the respondent’s siblings. If a respondent had at least one living parent, he/she was asked a variety of questions about his/her siblings (Section F). The sibling file contains one record for each sibling of a respondent. Each respondent reports on his/her own parents and siblings. Sibling data are also stored in the preload section, H12PR_SB.

1C4. Household Member and Child Level Files
These files contain characteristics about household members and children. This information can come from Section A. (coverscreen) or the family respondent in Section E and also in the preload section.

1C5. Helper Level File
This file contains information provided by each respondent about helpers. A helper may be a person or organization that was reported by the respondent as providing help with ADLs or IADLs. The file contains one record for each helper. If a child helped both respondents in a two respondent household, the helper file will contain two records – one of mother’s report of the child’s helping her and one for father’s report of the child’s helping him.

1C6. Transfer-to-Child-Level File
This file contains information provided by the family respondent about transfers of money to a child or grandchild. The file contains one record for each transfer to a child or grandchild.
1C7. Transfer-from-Child-Level-File
This file contains information provided by the family respondent about transfers of money from children or grandchildren. The file contains one record for each transfer from a child or grandchild.

1C8. Pension Level Files
These files contain information about Pensions that the respondent has reported over the years during their involvement with the HRS. Each file contains one record for each Pension that has been reported, and followed up on in the current data collection.

1C9. Jobs level files
These files contain information on Jobs the respondent has reported over time. Current jobs are represented, as well as past employment that have unresolved pensions from past waves. The files have one record for each job represented.

2. File Naming Conventions
Files are named beginning with “H12” for HRS 2012, followed by a letter (or two) designating the questionnaire section. A separator, “_” and then one or two letters designating the level, follows the section letter designator.

H for household-level
R for respondent-level
MC for household-member-and-child-level
SB for sibling-level
HP for helper-level
TC for transfer-to-child-level
FC for transfer-from-child-level
JB for jobs-level
P for pension-level

For example, the file H12A_R includes variables from section A (coverscreen) at the respondent level, whereas, H12A_H contains variables from section A (coverscreen) at the household level.

The following extensions are used for the six different types of files that are distributed.

.DA for data files,
.SAS for SAS program statements,
.SPS for SPSS program statements,
.DO for STATA DO statements,
.DCT for STATA dictionary statements, and
.TXT for codebook files.

One of each of these file types is provided for each of the 42 data files for the 2012 HRS Core (Final, Version 3.0) data release. For example,

H12A_R.DA contains respondent data from section A,
H12A_R.SAS contains corresponding SAS program statements,
H12A_R.SPS contains corresponding SPSS program statements,
H12A_R.DO contains corresponding STATA DO statements,
H12A_R.DCT contains corresponding STATA dictionary statements, and
H12A_R.TXT contains the ASCII codebook.
3. Data Files

The 2012 HRS Core (Final, Version 3.0) data are distributed in 42 data files. The files are listed below along with the number of cases (N), number of variables (NV), and the primary identifiers (IDS). The records in the data files are sorted in order by these primary identifiers.

The 2012 HRS Core data are provided in ASCII format, with fixed-length records. Use associated SAS, SPSS or STATA program statements to read the data into the analysis package of your choice.

Household level files, IDS=HHID NSUBHH

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<tr>
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<th>NV</th>
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<td>41</td>
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<td>H12E_H</td>
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<tr>
<td>H12H_H</td>
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<td>H12IO_H</td>
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Respondent level files, IDS=HHID PN

<table>
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<tr>
<th>IDS</th>
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<td>H12A_R</td>
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Household member and child level files IDS=HHID NSUBHH OPN

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Sibling level files IDS=HHID PN OPN

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<tr>
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<td>H12F_SB</td>
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<td>28</td>
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</tbody>
</table>

Transfer-to-child-level-file IDS=HHID NSUBHH

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<th>NV</th>
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</thead>
<tbody>
<tr>
<td>H12E_TC</td>
<td>6565</td>
<td>23</td>
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</tbody>
</table>
At a later date, household and respondent level weight variables for the 2012 sample will be available in the HRS cross-wave Tracker file.

4. Identification Variables
Identification variables for HRS 2012 are stored in character format.

4A. Primary Identification Variables
Several variables, HHID, NSUBHH, PN, OPN, are used in various combinations to uniquely identify the seven different level datasets that comprise this data release.

4A1. HHID – Household Identification Number
In the initial wave of data collection (in 1992 for the HRS sub-sample, in 1993 for the AHEAD sub-sample, 1998 for the WB and CODA sub-samples, 2004 for the EBB sub-sample, and 2010/2011 for the MBB sub-sample), each sample household was assigned a Household Identifier. HHID is stable across waves of data collection and uniquely identifies the original household and any households derived from that household in subsequent waves of data collection. HHID has six-digits.

4A2. NSUBHH – 2012 Sub-household Identifier
In combination with HHID, NSUBHH uniquely identifies a household at the time of the 2012 data collection. Sub-household identifiers can be different at each wave. NSUBHH has one-digit. For more information, see Examples of Sub-Household and Respondent Person Number and Other Person Number Assignments.

4A3. PN – Person Number
In combination with HHID, PN uniquely identifies a respondent or respondent’s spouse or partner. PNs are unique within an original household (HHID). The PN assigned to a particular respondent does not change across waves. PN has three-digits.

4A4. OPN – Other Person Number.
In the 2012 data collection HHID, NSUBHH and OPN uniquely identify another person in the household member and child files; HHID, PN, and OPN uniquely identify another person in the helper or sibling files. OPN has three-digits.
4B. Primary Identification Variables for Datasets at Each of the Nine Levels

Two identifiers uniquely identify records in the respondent-level datasets:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) PN      RESPONDENT PERSON IDENTIFICATION NUMBER

Two identifiers uniquely identify records in the household-level datasets:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) NSUBHH  2012 SUB HOUSEHOLD IDENTIFICATION NUMBER

Three identifiers uniquely identify records in the helper-level datasets:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) PN      RESPONDENT PERSON IDENTIFICATION NUMBER
3) OPN     OTHER PERSON NUMBER

Three identifiers uniquely identify records in the household-member-and-child-level:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) NSUBHH  2012 SUB HOUSEHOLD IDENTIFICATION NUMBER
3) OPN     OTHER PERSON NUMBER

Three identifiers uniquely identify records in the sibling-level datasets:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) PN      RESPONDENT PERSON IDENTIFICATION NUMBER
3) OPN     OTHER PERSON NUMBER

Three identifiers uniquely identify records in the transfer-to-child-level, and transfer-from-child-level datasets:
1) HHID     HOUSEHOLD IDENTIFICATION NUMBER
2) NSUBHH  2012 SUB HOUSEHOLD IDENTIFICATION NUMBER
3) OPN     OTHER PERSON NUMBER

Three identifiers uniquely identify records in the Pension Level Data sets:
1) HHID HOUSEHOLD IDENTIFICATION NUMBER
2) PN RESPONDENT PERSON IDENTIFICATION NUMBER
3) Z505 PENSION TRACKING NUMBER

Three identifiers uniquely identify records in the Jobs level datasets:
1) HHID HOUSEHOLD IDENTIFICATION NUMBER
2) PN RESPONDENT PERSON IDENTIFICATION NUMBER
3) Z504 JOB TRACKING NUMBER

4C. Secondary Identification Variables

In addition to the primary identification variables that uniquely identify records in a dataset, secondary identification variables that allow links to other datasets are provided. Two sets of secondary identification variables are provided. They are listed below.
Secondary Identification Variables for
- respondent-level,
- sibling level and
- helper-level datasets:
- job-level datasets
- Pension-level datasets

- **NSUBHH** 2012 SUB HOUSEHOLD IDENTIFICATION NUMBER
- **MSUBHH** 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER
- **NPN SP** 2012 SPOUSE/PARTNER PERSON NUMBER
- **NCSR** 2012 WHETHER COVERSHEET RESPONDENT
- **NFAMR** 2012 WHETHER FAMILY RESPONDENT
- **NFINR** 2012 WHETHER FINANCIAL RESPONDENT

Secondary Identification Variables for
- household level,
- household member or child level,
- transfer-from-child-level and
- transfer-to-child-level:

- **NSUBHH** 2012 SUB HOUSEHOLD IDENTIFICATION NUMBER
- **MSUBHH** 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER
- **NPN_CS** PERSON NUMBER OF COVER SCREEN RESPONDENT
- **NPN_FAM** 2012 FAMILY RESP PERSON NUMBER
- **NPN_FIN** 2012 FINANCIAL RESP PERSON NUMBER
- **NPN_NCS** 2012 NON-COVERSCREEN RESP PERSON NUMBER
- **NPN_NFAM** 2012 NON-FAMILY RESP PERSON NUMBER
- **NPN_NFIN** 2012 NON-FINANCIAL RESP PERSON NUMBER

4D. Datasets Including NSUBHH and OPN as Primary Identifiers

When working with datasets including NSUBHH and OPN as primary identifiers -- household-member-and-child-level, it is essential to use NSUBHH to distinguish other persons.

Sometimes records with the same HHID and OPN will be separate reports about the same person. For example, *Couple with Children and Siblings Divorces*, the record where HHID is 890121, NSUBHH is 1, and OPN is 101 is the report about the child from the mother, and the record where HHID is 890121, NSUBHH is 2, and OPN is 101 is the report about the same child from the father.

At other times records with the same HHID and OPN will be reports about different persons. For example, a couple divorces, one respondent remarries, and both split-off households have new members. When a couple divorces and both split-off households have new members, the record where HHID is 901231, NSUBHH is 2, and OPN is 151 is for the ex-wife’s mother, while the record where HHID is 901231, NSUBHH is 1, and OPN is 151 is for the ex-husband’s new stepchild.

5. Distribution Files and Directory Structure

5A. Distribution Files

The files are packaged for download from our Web site in two different ways - as one large .zip file that contains six smaller .zip files, one .pdf file, and one .txt file, or the eight smaller files available individually for separate download. The combined file is H12core.zip.
The individual .zip files for separate download are:

Data file
   H12da.zip contains data files.

Program statement files
   H12sas.zip contains SAS data descriptors.
   H12sps.zip contains SPSS data descriptors.
   H12sta.zip contains STATA data descriptors.

Documentation files
   H12cb.zip contains the codebook.
   H12qn.zip contains the questionnaire.
   H12dd.pdf - this document.

5B. Directory Structure

While a particular setup is not required for using HRS files, we have traditionally suggested a directory structure. By using this directory structure, you will not have to change the path name in your data descriptor files. If you use a different structure, just change the directory references in the program statement files.

<table>
<thead>
<tr>
<th>Directory</th>
<th>Contents</th>
</tr>
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</tr>
<tr>
<td>c:\hrs2012\STATA</td>
<td>Unzipped files from H12sta.zip</td>
</tr>
</tbody>
</table>

Decompress the selected .zip files into the appropriate subdirectories. You will need about 450 MB of free space on your storage device to store the 42 .DA files.

6. Program Statements

Each data file comes with associated SPSS, SAS, or STATA program statements to read the data. Files containing SPSS statements are named with .SPS extension, those with SAS statements with a .SAS extension, and those with STATA statements with .DO and .DCT extensions.

The statement files are named beginning with the same prefix as the corresponding data file. For example, SAS statements in the file H12A_R.SAS go with the H12A_R.DA data file.

6A. Using the Files with SAS

To create a SAS system file for a particular dataset, two file types must be present for that dataset -- .SAS program statement files and .DA data files.

To create a SAS system file, load the *.SAS file into the SAS Program Editor.

If the *.SAS file is located in "c:\hrs2012\sas" and the data file is located in "c:\hrs2012\data", you can run the file as is. A SAS system file (*.SD2 or *.SAS7BDAT) will be saved to directory "c:\hrs2012\sas".
If the files are not located in the specified directories, you will need to edit the *.SAS file to reflect the proper path names prior to running the file.

6B. Using the Files with SPSS
To create an SPSS system file for a particular dataset, two file types must be present for that dataset -- .SPS program statement files and .DA data files.

To create an SPSS system file, open the *.SPS file in SPSS as an SPSS Syntax File.

If the *.SPS file is located in "c:\hrs2012\spss" and the data file is located in "c:\hrs2012\data", you can run the file as is. An SPSS system file (*.SAV) will be saved to directory "c:\hrs2012\spss".

If the files are not located in the specified directories, you will need to edit the *.SPS file to reflect the proper path names prior to running the file.

6C. Using the Files with STATA
To use STATA with a particular dataset, the following three file types must be present for that dataset -- .DCT files, .DO files, and .DA data files.

Files with the suffix .DA contain the raw data for STATA to read. Files with the suffix .DCT are STATA dictionaries used by STATA to describe the data. Files with the suffix .DO are short STATA programs ("do files") which you may use to read in the data. Load the .DO file into STATA and then submit it.

If the *.DO and *.DCT files are located in "c:\hrs2012\STATA" and the data file is located in "c:\hrs2012\data", you can run the .DO file as is.

If the files are not located in these directories, you must edit the *.DO and *.DCT files to reflect the proper path names before you run the files.

Note that the variable names provided in the .DCT files are uppercase. If you prefer lower case variable names, you may wish to convert the .DCT files to lower case prior to use. You may do this by reading the .DCT file into a text or word processing program and changing the case. For instance in Microsoft Word, Edit, Select All, Format, Change Case, lowercase.

7. Documentation
There are several types of documentation available for use with the 2012 HRS Core (Final, Version 3.0) data release. These include a codebook and the 2012 box-and-arrow questionnaire. In addition, 2012 variables have been added to the Online Concordance.

7A. Codebook
The HRS 2012 Codebook is provided as a series of 42 ASCII text files, as well as a file containing all sections. There is a codebook file corresponding to each data file. Each variable has its own codebook entry. The format of the codebook is, for the most part, consistent with all previous releases.

7A1. Variable Names
Variable names begin with a letter designating the wave of data collection (N for 2012), followed by the section letter, and numbers after the section letter.
For example, NC001 where N=2012, C=section C (physical health), and 001 is the variable number. Variables from the preload section of the instrument will have either MX or MZ as prefix letters. The X indicates a variable that is updated by data collected in later sections of the questionnaire, whereas the Z indicates preloaded data that were not changed by subsequent answers to questions. For example:

NX007_R    RESP FAM/FIN TYPE - UPDATED
N2077_R    PREV WAVE R FIN/FAM TYPE

NX007_R indicates that the preloaded Financial or Family respondent was changed, or updated, later in the instrument from what had been preloaded (or assigned) prior to the start of the 2012 interview.

7A1a. Multiple-response and Looped Variables

There are two types of variables with multiple mention indicators. First are simple multiple mentions and second are multiple mentions within loops.

Simple multiple mention variables take the form: (wave prefix) + (section letter) + (variable number) + (mention number). For example, NN219M1 through NN219M5 are 2012 variables from section N with one through 5 mentions.

Variable names for multiple mentions to questions within a loop take the form: (wave prefix) + (section letter) + (variable number) + (underscore) + (loop iteration) + (letter designating mention number). For example, NN049_1M1, is a 2012 variable from section N, variable number 049 in the first iteration of the loop, and the first mention.

Simple loop variables (not a multiple mention) have an underscore ( _ ) in their name and a suffix that designates the loop, e.g., NN025_1.

For variables that have a “W” right after the section designator, the variable names are slightly different. Variable names for multiple mentions to questions within a W-loop take the form: (wave prefix) + (section letter) + (“W”) + (variable number) + (letter designating loop iteration) + (mention number). For example, NKW097A1, is a 2012 variable from section K, variable number 097 in the first iteration of the loop, and the first mention. Other non-multiple mention variables within this type of loop are named with the letter designating the loop iteration. For example, NKW002A, is variable number 002 in the first iteration of the loop.

Null multiple mention variables and variables from null loops beyond the first mention or first loop are not included in the data. It is generally the case that one null multiple mention and one null loop was retained.

7A1b. Masked Variables

To protect the confidentiality of the information that respondents provide, a number of variables have been masked or are simply not included in the final release public dataset. Some of these variables may be made available to analysts as restricted data. See our Web site for details.

Names, addresses, days of birth, information on geographical relocation and similar variables are not included in publicly released files.

Geographical locations are recoded to a level no more detailed than U.S. Census Region and Division. Data on the highest educational degree earned have been
further grouped together to increase cell sizes. The 2010 U.S. Census codes have been used to code the occupation and industry data in 2012.

The names of variables that were masked for confidentiality end in the capital letter "M"; for example, variable NX026M (1ST ADDRESS STATE – MASKED) and variable NB024M (FATHER USUAL OCCUPATION – MASKED).

7A1c. Other Specify Questions, Comments, and Open Ends

“Other Specify” and “Open End”, or questions that are answered with text (e.g., vocabulary words, industry and occupation) are included in final data releases. Similarly, the Final release data also include comments made by respondents in the course of the interview. For the Final release, HRS staff reviewed these comments for selected questions, and the coded answer was changed if it was determined that the comment changed the substance of the recorded answer.

7A2. Other Types of Documentation

In addition to this document and the codebook, three additional types of documentation are available.

7A2a. Overview of HRS Public Data Files for Cross-sectional and Longitudinal Analysis

This is a thorough document that provides a description of structure and content for all HRS public data files and a detailed explanation for handling the longitudinal nature of the survey. It is located here: http://hrsonline.isr.umich.edu/sitedocs/dmgt/OverviewofHRSPublicData.pdf

7A2b. Box and Arrow Questionnaire

The research community has referred to the type of documentation that describes the questions asked in the interview as a “questionnaire”. Since the 2012 HRS data were collected using a CAI program, a traditional hard-copy questionnaire was not produced as part of the data collection phase. Therefore, in order to document question sequencing, we have provided a current-wave version of the traditional box and arrow questionnaire.

7A2c. Cross-Wave Tracker File

The cross-wave tracker file contains basic demographic information, interview status, and if, when and how an interview was conducted during a specific data collection period. The cross-wave tracker file also contains weight variables. The tracker file contains one record for every person who was ever eligible to be interviewed in any wave. Please see the cross-wave tracker data description for a more detailed description.

7B. Master Codes

A master code file contains detailed codeframes used in several sections of the codebook. The master codes include Health conditions, occupation codes, industry codes, and state and country codeframes. The master codes appear in Appendix B.

8. Additional Notes

The following are miscellaneous additional notes regarding the 2012 HRS Core (Final, Version 3.0). If we become aware of additional issues, they will be posted on our Web site in the Data Alerts section.
8A. Households with No Family or Financial Respondents

As noted earlier in this document, the data collection design was to have asked most questions of all respondents, some questions of just a designated coverscreen, or family, or financial respondent on behalf of the household. However, occasionally that is not what happened. For some households we did not obtain an interview from a family or financial respondent. There were 113 households that had no family respondent; 73 households had no financial respondent. There are no missing coverscreen respondents in this wave. The household records for these households contain null values for the missing information. Households missing a family or financial respondent can be identified, respectively, by values of “Blank. No family/financial respondent” (in the household record) in the following variables:

- NPN_FAM - 2012 FAMILY RESP PERSON NUMBER
- NPN_FIN - 2012 FINANCIAL RESP PERSON NUMBER

8B. Unfolding Bracket Variables and Imputations

Typically, a series of unfolding bracket questions followed a lead-in question asking for an amount. If an actual amount was not given, a series of “unfolding” questions were asked. The manner in which the unfolding questions were programmed (Blaise) is different for the 2002 through 2010 data compared to the CAI (SurveyCraft) software used for 1993 through 2000. This change was transparent to the respondents, since exactly the same questions were asked with the new software as would have been asked with the old software; but it did have an implication for the data that were actually stored and also for the data that are released.

Instead of storing the response to each unfolding question, three summary variables were generated: the minimum and maximum values for the amount, given the answers to the unfolding questions, and if the last answer a respondent gave in an unfolding sequence was either “Don’t Know” or “Refused,” what that answer was. In 2002, if the Respondent said “more than” to the unfolding question with the highest value, then the maximum value was stored as ten times that value. However, in 2004 and 2010, if the Respondent said “more than” to the unfolding question with the highest value, then the maximum value was stored as 99999996.

For most analysts, those three variables (and in particular, the minimum and maximum of the possible range) will be sufficient for analyses. For any analyst who needs the more detailed information, it should be noted that the three variables, combined with the information about the unfolding questions provided in the box-and-arrow and codebook, are sufficient to allow the analyst to reconstruct the sequence of questions asked of any respondent, and the answers to each of those questions in many of the unfolding sequences.

For other sequences -- those in which respondents were randomly assigned to one of three "entry" points for the first unfolding question -- the analyst will also need to take into account a fourth variable (located in the preload sections) that specifies the entry point for each respondent. The following example shows the preload variable (NZ041) and the unfolding sequence that uses the random entry point from NZ041.

Example Random Entry Assignment Variable from Preload:

- Preload Variable from the data file H12pr_h:
  
  NZ041 PREAMIGNED UNFOLD RANDOM VALUE - SELF EMPLOYMENT

March 2020, Version 3.0 13
UNFOLD ASSIGN - SELF EMPLOYMENT INCOME

User Note - A preload error caused New Cohort Households to miss an assignment for this variable

3649  1. RANDOM ASSIGNMENT1
3568  2. RANDOM ASSIGNMENT2
3537  3. RANDOM ASSIGNMENT3

Unfolding Series from section Q that uses NZ041 to assign respondents an entry point:

NQ016  R INCOME FROM SELF EMPLOYMENT - MIN

Unfolding Procedure: 3Up, 2Up1Down, 1Up2Down (Min)
Did it amount to ...
Breakpoints: 5000/10000/25000/100000
RANDOM ENTRY POINT ASSIGNMENT [1 ($5,000)] or [2 ($10,000)] or
[[NOT 1 and NOT 2] ($25,000)] AT NZ041

User Note: Due to a programming error, 58 new cohort HH's did not receive this unfolding sequence as expected.

112  0. Value of Breakpoint
9   5000. Value of Breakpoint
12  5001. Value of Breakpoint
7   10000. Value of Breakpoint
17  10001. Value of Breakpoint
5   25000. Value of Breakpoint
17  25001. Value of Breakpoint
2   100001. Value of Breakpoint
10573 Blank. INAP (Inapplicable); Partial Interview

NQ017  R INCOME FROM SELF EMPLOYMENT - MAX

41  4999. Value of Breakpoint
9   5000. Value of Breakpoint
9   9999. Value of Breakpoint
7   10000. Value of Breakpoint
16  24999. Value of Breakpoint
5   25000. Value of Breakpoint
16  99999. Value of Breakpoint
78  99999996. Greater than Maximum Breakpoint
10573 Blank. INAP (Inapplicable); Partial Interview

NQ018  R INCOME FROM SELF EMPLOYMENT - RESULT
8C. Modules for the 2012 Data Collection

There are 11 modules for 2012 HRS. The module data can be found in the file H12V_R. Topical areas of the modules include:

Module 1: Prospect Theory
Module 2: Utilization of Home- and Community-Based Services, and Life Space.
Module 3: Technology Use: Barriers and Benefits
Module 4: Nutrition Assessment
Module 5: Worksite Health Promotion
Module 6: AD Diagnosis and Financial Planning
Module 7: Long Term Care Insurance
Module 8: Stereotype Threat & Unfair Treatment
Module 9: Human-Animal Interaction
Module 10: Happiness
Module 11: Hedonic Wellbeing

8D. Explanation of the Difference between Tracker and Core Data Releases

There are some areas where the Tracker File and the core data are different. Below are some examples. The examples rely on data from the HRS 2008 Core.

LSUBHH - The tracker file assigns a '9' for all new spouses in 2008 for the previous wave’s SUBHH number. The 2008 Final Release data, however, lists the SUBHH number of the household that the new spouse married into, since the new spouse will 'inherit' many of the relationships from that household.

LPN_SP - Even if a spouse did not give an interview in 2008, a spouse PN (LPN_SP) will exist in the core data. Additionally, for a non-original R’s new spouse, we assign a spouse PN (LPN_SP) and track the spouse's influence on the household with that number, even though we will never interview that person. In contrast, the tracker file will not reference these spouses.

Family and Financial R Assignments - As we keep a record of a non-interviewed spouse in the core data, we also release their assigned role in the household (i.e. family or financial R) with a listing for LPN_FIN, and LPN_FAM in the household sections. The tracker file will simply list the assignments of the people interviewed. Therefore, for example, the 2008 Core Final data has a blank line in Section H for a household where '020' was the non-interviewed financial R. The tracker file would show the same household as not having a financial R.

Marital Status - It is important to note that marital status, as it was assigned in the 2008 data (LB063) may be different from the marital status variable (xMARST) in the Tracker file. See the Cross-wave Tracker File Data Description for a more complete explanation of how marital status was assigned and the criteria used to reclassify respondents. The marital status variable in the Tracker file was constructed by looking at several different sources of data,
whereas the marital status variable in the 2008 Core Final data was not changed using outside sources, in order to preserve the flow through the instrument for respondents.

8E. Enhanced Face-to-Face Sample Design and Content

In 2006, HRS initiated what is referred to as an Enhanced Face-to-Face Interview. In addition to the core interview, the Enhanced Face-to-Face Interview includes a set of physical performance measures, collection of biomarkers, and a Leave-Behind Questionnaire on psychosocial topics. A random one-half of households were pre-selected for the enhanced face-to-face interview in 2006, with the other half of the sample selected for 2008, and the design is repeated in each subsequent wave. In coupled households, both members of the couple are selected. Selected respondents who completed a self (as opposed to proxy) interview, in-person (at least through Section I - the physical measures and biomarkers section), and who were non-institutionalized at the time of the interview were eligible for the physical measures and biomarkers components. This same group of respondents, plus those for whom an in-person proxy interview was completed, were also eligible for the Leave-Behind Questionnaire.

Psychosocial Leave-Behind Questionnaire (Section LB_R)

In 2004, HRS added a new feature for data collection in the form of self-administered questionnaires that were left with respondents upon the completion of an in-person Core Interview, referred to as the Leave-Behind Questionnaire. The purpose of the Leave-Behind Questionnaire is to collect additional information from respondents without adding to the interview length. In 2012, as in previous data collections since 2006, the Leave-Behind Questionnaire was incorporated into the Enhanced Face-to-Face Interview. The Leave-Behind Questionnaire administered in 2010 is called the Participant Lifestyle Questionnaire, and it includes questions on participation in general activities, relationships with others, and views on their life in general as well as specific aspects of their life.

Physical Performance Measures and Biomarkers (Section I_R)

Blood pressure
Breathing test (peak flow)
Grip strength
Timed walk (8 ft.)
Balance tests (semi-tandem, side-by-side, full tandem)
Height
Weight
Waist circumference
Saliva (for which DNA was extracted and stored)
Dry blood spots (analyzed for Hemoglobin A1c, total cholesterol and HDL cholesterol)

With the exception of the timed walk, which was administered only to respondents 65 years of age or older, the physical measures and biomarkers were conducted on the full enhanced face-to-face sample.

Three separate consents were obtained to cover: 1) all of the physical measures, plus blood pressure; 2) saliva sample; and 3) dry blood spots. The physical measures booklet, which the interviewers used to administer the physical
measures and biomarkers, is available on the HRS website Physical Measures 2012. The booklet contains the consent forms, as well as instructions and protocols for all of the measurements.

8F. Changes to 2012 Core, Version 3.0

In the Section I file, a correction was made to the variable NPMELIG (eligibility for physical measures) for respondents with phone as their mode of interview.

The following are changes that were made in the 2012 Core, Version 2.0 release:

For HHID = “900001” the NSUBBH value was changed to 1 in all files.

For HHID = “906840” and PN = “010” the NPN_SP value was changed to “020” in the appropriate respondent-, sibling-, helper-, pension-, and job- level files.

Updated the code range of the "Miscellaneous" category for the following variables. The range is now 191-196.

- NB121M1M--NB121M3M
- NB125M1M--NB125M3M
- NC108M1M--NC108M2M
- NM003M1M--NM003M3M
- NM503M1M--NM503M2M
- NM508M1M--NM508M2M
- NM559M1M--NM559M2M
- NS054M1M--NS054M2M

The following variables have been added to the H12E_H files:
- NE169
- NE171M1-M9.

Minor adjustments were made to the following variables in H12H_H:
- NH020
- NN024M1
- NH056
- NH002
- NH004

Minor adjustments were made to the following variables in H12Q_H:
- NQ524_1
- NQ525_1
- NQ524_2
- NQ525_2

The records of seven respondents who listed themselves as helpers were removed from the H12G_HP file.

The NG069 variable was updated in the H12G_HP file for five records.

8G. Errata

For HHIDs 207899 and 521168 there is no coverscreen respondent data available. In both of those HH's, the coverscreen respondent suspended after completing
section A and never completed the interview. Neither met the threshold for a partial interview so were not included in the release.

In the process of cleaning the sample for the 2014 data collection, it was discovered that one new sample line did not meet the criteria for inclusion in the HRS. It has been dropped from 2012 final release. The HHID and PN are 907264 and 021 respectively.

**8H. Summary of Data Model (DM) Changes during 2012 Production**

**Data Model 2 changes:**

**Section D**

D124: Added instructions"[Iwer: allow R to start over if s/he wishes to do so]"

D127: Added "[Iwer: correct responses include counting down from 19 to 10 or from 20 to 11]" and "[Iwer: correct responses include counting down from 19 to 10 or from 20 to 11]"

D137: Added "[Iwer: correct responses include counting down from 85 to 76 or from 86 to 77]"

**Section J Pensions:**

W407: Added Instruction: If R reports an Individual Retirement Account or IRA, back up to W403 or W401 and change response to 5=No.

**Module 1**

Added V011_BP to skip V011 to end of V1 if any RF in V001 - V008

**Data Model 3 changes:**

**Section D**

D200 Intro and D240

1. Change the numbers in the example to: For example, if I said the numbers '1. . . 2. . . BLANK...4’ then what number would go in the blank?

2. Change the correct response to 3: CORRECT RESPONSE: 3

3. Change the IWER instruction that comes right after the correct response to: [IWER: IF R DOES NOT GIVE THE CORRECT RESPONSE (3) THEN SAY: THE CORRECT ANSWER IS 3 BECAUSE THE NUMBERS ARE INCREASING BY 1. (PROBE TO CHECK THAT THE RESPONDENT UNDERSTANDS TASK.)]

For D240 made the following change in the example

Change the numbers in the example to: 2. . . 4. . . 6. . .BLANK CORRECT RESPONSE: 8

D216: Changed the counter for number correct (D216) so that if R gets to the first test item (D201 or D221) and the IWER enters 7=unable to do on that item, the counter is set to missing, not 0.

D217: Changed counter for number of refusals (D217) so that if R gets to the first test item (D201 or D221) and the IWER enters 7=unable to do on that item, the counter is set missing, not 0.

**Section H**

H001: There is a problem with how Preload X100 was built. Instead of having values of 1 and 5, it has values of 1 and missing. As a result, any references
to $X100=5$ or $X100 <> 5$ will need to be changed. This occurs multiple times in Section H and possibly also in Section B. $X100=No$ should be changed to $X100 <> Yes$ and $X100 <> No$ should be changed to $X100=Yes$

The list of affected fields: H001_FarmRanch H006_OwnBldg H007_ H066_ H067_ H068_ H069_ H071_ H072_ H074_ H085_ H086_ H100_HousingAssoc H101_SeniorComplex H196SSeniorComplex_S H102_ through H111S H115 through H134 H135 through H138 H140 through H145S H146_ H147_

Section J (Pensions)

W401: Any Other Add new IWER instruction "Include only pension plans sponsored by Rs own employer, business or union. For example, do not include plans from a former or deceased spouse."

Module 11

V458: Corrected assignment problem with V458. The value 6 from preload Z267 is being coded as missing on V458. It should be assigned 6 on V458. Cases coded missing on V458 are getting skipped out of all scenarios in error.

Data Model 4 changes:

Section B

B045: 96 is now an accepted response for “lived there all life”. Further, entering numbers larger than R's age correctly brings up a check box, and entering R's age does not bring up the check box.

Data Model 5 changes:

SAQ eligibility

The SAQ eligibility indicator has been updated to reflect changes in SAQ eligibility rules across waves. There are now two indicators. The first indicator (NLBRTYPE) identifies aspects of the respondent and/or interview that affect eligibility (enhanced face-to-face status, mode of interview, proxy and nursing home status). This indicator can be used to identify a comparable SAQ sample across all waves. The second indicator (NLBELIG) is a simple binary variable that identifies whether or not the respondent was eligible for the SAQ in that wave, given the eligibility rules that were in operation at the time.

The SAQ completion indicator (NLBCOMP) is very similar to the previous version. An SAQ is considered to be complete if one or more substantive variable contains non-missing data. One change from the previous version is that respondents who were not eligible for the SAQ but who completed it anyway are now assigned a completion status on the LBCOMP variable. In the past they were assigned missing on this variable. The number of such cases is very small.

More information on the SAQ eligibility rules and methodology is provided in the SAQ documentation report at this link: [http://hrsonline.isr.umich.edu/sitedocs/userg/HRS2006-2010SAQdoc.pdf](http://hrsonline.isr.umich.edu/sitedocs/userg/HRS2006-2010SAQdoc.pdf)

8I. Pension Section for 2012

In 2012, the questions asked about current and former (past dormant) pensions were reworked. In the new format, all pensions are asked about as one section together at the end of section J. The interviewer is presented with list of all pensions that they have ever told us about that we do not believe have been resolved (collected, reinvested elsewhere, etc.). The respondent is then asked to verify both the pension and which former job the pension came from. Follow-
ups then determine if the pension is still dormant or has been collected in some way. The data are presented in a file with one line per pension being discussed (H12J_PE). Please see the box and arrow: Section J2 - PENSIONS for more detail on the new pension design.

8J. New Questions in HRS 2012
Table 1. New Questions in HRS 2012

<table>
<thead>
<tr>
<th>Section</th>
<th>Instrument</th>
<th>Question Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Coverscreen</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>B - Demographics</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>C - Health</td>
<td>Core</td>
<td>C278, C279, C280, C281 and C282</td>
</tr>
<tr>
<td>D - Cognition</td>
<td>Core</td>
<td>D217, D247, D249, D250, D251, D252, D265, D253, D254, D255, D256, D257, D258, D259, D260, D261, D262, D263, D264, D270, D271, D272, D273, D274, D275, D276, D277, D278, D279, D280, D281, D282, D283, and D284</td>
</tr>
<tr>
<td>RC - Repeat Cognition</td>
<td>Core</td>
<td>D217_NSTotalrft, D247, D249, D250, D251, D252, D253, D254, D255, D256, D257, D258, D259, D260, D261, D262, D263, D264, D270, D271, D272, D273, D274, D275, D276, D277, D278, D279, D280, D281, D282, D283, and D284</td>
</tr>
<tr>
<td>E - Children and Transfers</td>
<td>Core</td>
<td>E039, E180, E181, E182 and E183</td>
</tr>
<tr>
<td>F - Parents and Siblings</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>G - Functional limitations</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>and helpers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H - Housing</td>
<td>Core</td>
<td>H326, H327</td>
</tr>
<tr>
<td>I - Physical Measures and</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>Biomarkers</td>
<td></td>
<td></td>
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<tr>
<td>J - Employment</td>
<td>Core</td>
<td>See: 8H.</td>
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<tr>
<td>K - Last Job</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>L - Job History</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>M - Work Disability</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>N - Health Insurance and</td>
<td>Core</td>
<td>N274_1-3, N275_1-3, N276_1-3, N277_1-3, N278_1-3, N279, N280_1-3, N281_1-3, N282_1-3, N283, N284_1-3, N285, N286M1-M4, N287, N290, N291, N292, N293, N294 and N294</td>
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<td>Service Utilization</td>
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<tr>
<td>P - Expectations</td>
<td>Core</td>
<td>P041, P042, P043, P044, P107, P181, P182, P183, P185</td>
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<tr>
<td>Q - Income and Assets</td>
<td>Core</td>
<td>Q533, Q534, Q535, Q536, Q537_1-3 and Q538_1-3</td>
</tr>
<tr>
<td>R - Capital Gains</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>S - Widowhood</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>T - Wills and Life Insurance</td>
<td>Core</td>
<td>T245, T246, T247M1-M4, T248M1-M6, T250 and T251</td>
</tr>
<tr>
<td>U - Asset Reconciliation</td>
<td>Core</td>
<td>No added questions</td>
</tr>
<tr>
<td>V - Experimental Modules</td>
<td>Core</td>
<td>Content of Experimental Modules changes each wave of data</td>
</tr>
</tbody>
</table>
9. Obtaining the Data

9A. Registration and Downloading the Data
HRS data are available for free to researchers and analysts at the HRS Web site. In order to obtain public release data, you must first register at our Web site. Once you have completed the registration process, your username and password will be sent to you via e-mail. Your username and password are required to download any data files.

By registering all users, we are able to document for our sponsors the size and diversity of our user community allowing us to continue to collect these important data. Registered users receive user support, information related to errors in the data, future releases, workshops, and publication lists. The information you provide will not be used for any commercial use, and will not be redistributed to third parties.

9B. Conditions of Use
By registering, you agree to the Conditions of Use governing access to Health and Retirement public release data. You must agree to

- not attempt to identify respondents
- not transfer data to third parties except as specified
- not share your username and password
- include specified citations in work based on HRS data
- provide information to us about publications based on HRS data
- report apparent errors in the HRS data or documentation files
- notify us of changes in your contact information

For more information concerning privacy issues and conditions of use, please read “Conditions of Use for Public Data Files” and “Privacy and Security Notice” at the Public File Download Area of the HRS Web site.
9C. Publications Based on Data
As part of the data registration process, you agree to include specified citations and to inform HRS of any papers, publications, or presentations based on HRS data. Please send a copy of any publications you produce based on HRS data, with a bibliographical reference, if appropriate, to the address below.

Health and Retirement Study
Attn: Papers and Publications
The Institute for Social Research, Room 3410
P.O. Box 1248
Ann Arbor, MI (USA) 48106-1248

Alternately, you may contact us by e-mail at hrsquestions@umich.edu with “Attn: Papers and Publications” in the subject line.

10. If You Need to Know More
This document is intended to serve as a brief overview and to provide guidelines to using the 2012 HRS Core (Final, Version 3.0) data. If you have questions or concerns that are not adequately covered here or on our Web site, or if you have any comments, please contact us. We will do our best to provide answers.

10A. HRS Internet Site
Health and Retirement Study public release data and additional information about the study are available on the Internet. To access the data and other relevant information, point your Web browser to the HRS Web site.

10B. Contact Information:
If you need to contact us, you may do so by one of the methods listed below.

Internet: Help Desk at our Web site
E-mail: hrsquestions@umich.edu

Postal service:
Health and Retirement Study
The Institute for Social Research, Room 3410
The University of Michigan
P.O. Box 1248
426 Thompson St.
Ann Arbor, MI 48106-1248

FAX: (734) 647-1186
Appendix

A. Examples of Sub-Household and Respondent Person Number and Other Person Number Assignments

In the first year of data collection, all households, consisting of either a single respondent or of two married or partnered respondents, were assigned a SUBHH of 0.

In subsequent waves, a SUBHH of 0 indicates that the original household has not split due to divorce or separation of spouses or partners, although one member of a couple may have died or a single respondent may have become married or partnered.

A value of 1 or 2 indicates a household in which the original couple split, divorced or separated. One of the original couple is assigned a SUBHH of 1; the other is assigned a SUBHH of 2.

A value of 5 or 6 indicates a previously split household split a second time. One of the couple from a SUBHH 1 or 2 retains a SUBHH of 1 or 2; the other is assigned a SUBHH 5 or 6.

A value of 7 indicates respondents from split household reunited. It is important to understand these assignments when you merge records from different waves of the study.

A1. Married Couple Stays Married

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 012345 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

At the time of the second cross-section the two respondents are still married, and each retains their HHID of 012345 and their SUBHH of 0 and his and her PN of 010 and 020, respectively.

Time 1

<table>
<thead>
<tr>
<th>Household records</th>
<th>Respondent records</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHID=012345 ASUBHH=0</td>
<td>HHID=012345 PN=010 ASUBHH=0</td>
</tr>
<tr>
<td>Respondent records</td>
<td></td>
</tr>
<tr>
<td>HHID=012345 PN=020 ASUBHH=0</td>
<td></td>
</tr>
</tbody>
</table>

Time 2

<table>
<thead>
<tr>
<th>Household records</th>
<th>Respondent records</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHID=012345 CSUBHH=0</td>
<td>HHID=012345 PN=010 CSUBHH=0</td>
</tr>
<tr>
<td>Respondent records</td>
<td></td>
</tr>
<tr>
<td>HHID=012345 PN=020 CSUBHH=0</td>
<td></td>
</tr>
</tbody>
</table>

1In addition, a SUBHH of 3 or 4 indicates the “household” of a deceased respondent who is considered to be in a household of his or her own. These values do not occur in these files because all records in these files are from living respondents.
A2. Couple Divorces

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 023456 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

By the time of the second cross-section, the couple has divorced. Both respondents retain the HHID of 023456, but one is assigned a SUBHH of 1 and the other is assigned a SUBHH of 2. Each original respondent retains his and her PN of 010 and 020, respectively.

**Time 1**

Household records
- HHID=023456 ASUBHH=0

Respondent records
- HHID=023456 PN=010 ASUBHH=0
- HHID=023456 PN=020 ASUBHH=0

**Time 2**

Household records
- HHID=023456 CSUBHH=1
- HHID=023456 CSUBHH=2

Respondent records
- HHID=023456 PN=010 CSUBHH=1
- HHID=023456 PN=020 CSUBHH=2

A3. One or Both Respondents Die

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 034567 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

One respondent dies before the next wave. At the next wave, both respondents retain their HHID of 034567. The living respondent retains her SUBHH of 0; the deceased respondent is assigned a SUBHH of 3. (If both respondents die, one would be assigned a SUBHH of 3 and the other would be assigned a SUBHH of 4.) Each original respondent retains his and her PN of 010 and 020, respectively.

**Time 1**

Household records
- HHID=034567 ASUBHH=0

Respondent records
- HHID=034567 PN=010 ASUBHH=0
- HHID=034567 PN=020 ASUBHH=0

**Time 2**

Household records
- HHID=034567 CSUBHH=0
- HHID=034567 CSUBHH=3 (in exit interview)

Respondent records
- HHID=034567 PN=010 CSUBHH=3 (in exit interview)
- HHID=034567 PN=020 CSUBHH=0

A4. Single Respondent Marries

A respondent who has never been married is in the first cross-section. The respondent is assigned a HHID of 045678 and a SUBHH of 0 and a PN of 010.

At the time of the second cross-section, the respondent has married. Both the respondent and her new spouse are assigned a HHID of 045678 and a SUBHH of 0.
because the household was not divided. The original respondent retains her PN of 010. Her new spouse is assigned PN of 011.

**Time 1**
Household records
   HHID=045678 ASUBHH=0
Respondent records
   HHID=045678 PN=010 ASUBHH=0

**Time 2**
Household records
   HHID=045678 CSUBHH=0
Respondent records
   HHID=045678 PN=010 CSUBHH=0
   HHID=045678 PN=011 CSUBHH=0

**A5. Couple Divorces, One Respondent Remarries and Divorces**

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 056789 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

By the time of the second cross-section, the couple has divorced and he has remarried. Both original respondents retain the HHID of 056789, but she is assigned a SUBHH of 1 and he is assigned a SUBHH of 2. His new spouse is also assigned the HHID of 056789 and the SUBHH of 2. Each original respondent retains his and her PN of 010 and 020, respectively. His new spouse is assigned PN of 011.

By the time of the third cross-section, that new couple has gotten divorced. All respondents retain the HHID of 056789. The original sample member ex-wife has the SUBHH of 1. The original sample member ex-husband has a SUBHH of 2, and the non-original sample member, his second ex-wife, is assigned the SUBHH of 5. Each original respondent retains his and her PN of 010 and 020, respectively. His second ex-wife retains her PN of 011.

**Time 1**
Household records
   HHID=056789 ASUBHH=0
Respondent records
   HHID=056789 PN=010 ASUBHH=0
   HHID=056789 PN=020 ASUBHH=0

**Time 2**
Household records
   HHID=056789 CSUBHH=1
   HHID=056789 CSUBHH=2
Respondent records
   HHID=056789 PN=010 CSUBHH=2
   HHID=056789 PN=011 CSUBHH=2
   HHID=056789 PN=020 CSUBHH=1

**Time 3**
Household records
   HHID=056789 FSUBHH=1
   HHID=056789 FSUBHH=2
   HHID=056789 FSUBHH=5
Respondent records
A6. Couple Divorces and Marries Again

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 067890 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

By the time of the second cross-section, the couple has divorced. Both respondents retain the HHID of 067890, but one is assigned a SUBHH of 1 and the other a SUBHH of 2. Each original respondent retains his and her PN of 010 and 020, respectively.

By the time of the third cross-section, the respondents have remarried each other. Both are assigned the HHID of 067890 and the SUBHH of 7. Each original respondent retains his and her PN of 010 and 020, respectively.

Time 1
Household records
HHID=067890 ASUBHH=0
Respondent records
HHID=067890 PN=010 ASUBHH=0
HHID=067890 PN=020 ASUBHH=0

Time 2
Household records
HHID=067890 CSUBHH=1
HHID=067890 CSUBHH=2
Respondent records
HHID=067890 PN=010 CSUBHH=1
HHID=067890 PN=020 CSUBHH=2

Time 3
Household records
HHID=067890 FSUBHH=7
Respondent records
HHID=067890 PN=010 FSUBHH=7
HHID=067890 PN=020 FSUBHH=7

A7. Married Couple with Children and Siblings

At the time of the first cross-section, sample household with a HHID of 078901 contains two respondents assigned PNs of 010 and 020, respectively. Associated with the household are three children with OPNs of 101, 102, and 103, and two siblings with OPNs of 051 and 052. All seven persons will keep those same PNs and OPNs across time. A friend who lives with the respondents is assigned an OPN of 080. The friend will keep her OPN of 080 across time only if she is a household member at each wave.

Time 1
Household records
HHID=078901 ASUBHH=0
Respondent records
HHID=078901 PN=010 ASUBHH=0
HHID=078901 PN=020 ASUBHH=0
Household member/child records
  HHID=078901 ASUBHH=0 OPN=101 (child)
  HHID=078901 ASUBHH=0 OPN=102 (child)
  HHID=078901 ASUBHH=0 OPN=103 (child)
  HHID=078901 ASUBHH=0 OPN=051 (sibling)
  HHID=078901 ASUBHH=0 OPN=052 (sibling)
  HHID=078901 ASUBHH=0 OPN=080 (friend)

A8. Couple with Children and Siblings Divorces

At the time of the first cross-section, sample household with a HHID of 089012 contains two respondents assigned PNs of 010 and 020, respectively. Associated with the household are two children with OPNs of 101, and 102, and three siblings, her two brothers with OPNs of 051 and 052 and his sister with an OPN of 061. A friend who lives with the respondents is assigned an OPN of 080.

By the time of the second cross-section, the couple has divorced. Both respondents retain the HHID of 089012, but he is assigned a SUBHH of 2 and she is assigned a SUBHH of 1. Each original respondent retains his and her PN of 010 and 020, respectively.

The two children appear both in their father’s SUBHH 2 and also in their mother’s SUBHH 1 with their respective OPNs, 101, and 102. The three siblings appear in the SUBHH of their respective siblings and maintain their respective OPNs. The ex-wife’s brothers appear as part of her SUBHH 1 with their OPNs of 051 and 052, respectively. The ex-husband’s sister appears as part of his SUBHH 2 with her OPN of 061. The friend has moved out and does not appear in either household.

Time 1
Household records
  HHID=089012 ASUBHH=0
Respondent records
  HHID=089012 PN=010 ASUBHH=0
  HHID=089012 PN=020 ASUBHH=0
Household member/child records
  HHID=089012 ASUBHH=0 OPN=101 (child)
  HHID=089012 ASUBHH=0 OPN=102 (child)
  HHID=089012 ASUBHH=0 OPN=051 (her brother)
  HHID=089012 ASUBHH=0 OPN=052 (her brother)
  HHID=089012 ASUBHH=0 OPN=061 (his sister)
  HHID=089012 ASUBHH=0 OPN=080 (friend)

Time 2
Household records
  HHID=089012 CSUBHH=1
  HHID=089012 CSUBHH=2
Respondent records
  HHID=089012 PN=010 CSUBHH=2
  HHID=089012 PN=020 CSUBHH=1
Household member/child records
  HHID=089012 CSUBHH=1 OPN=101 (child)
  HHID=089012 CSUBHH=1 OPN=102 (child)
  HHID=089012 CSUBHH=1 OPN=051 (her brother)
  HHID=089012 CSUBHH=1 OPN=052 (her brother)
  HHID=089012 CSUBHH=2 OPN=101 (child)
  HHID=089012 CSUBHH=2 OPN=102 (child)
HHID=089012 CSUBHH=2 OPN=061 (his sister)

A9. Couple Divorces, One Respondent Remarries, Both Split-off Households Have New Members

Two respondents in a sample household are married at the time of the first cross-section. Each respondent is assigned a HHID of 090123 and a SUBHH of 0. One respondent has a PN of 010, the other a PN of 020.

By the time of the second cross-section, the couple has divorced. She has moved in with her mother. He has married a woman with two children. At the second cross-section, both original respondents retain the HHID of 090123, but he is assigned a SUBHH of 1 and she is assigned a SUBHH of 2. Each original respondent retains his and her PN of 010 and 020, respectively. His new spouse and new stepchildren are assigned the HHID of 090123 and the SUBHH of 1. His new spouse is assigned a PN of 011. His new stepchildren are assigned OPNs of 151 and 152. Her mother is assigned the HHID of 090123 and the SUBHH of 2 and an OPN of 151.

Time 1
Household records
   HHID=090123 ASUBHH=0
Respondent records
   HHID=090123 PN=010 ASUBHH=0
   HHID=090123 PN=020 ASUBHH=0

Time 2
Household records
   HHID=090123 CSUBHH=1
   HHID=090123 CSUBHH=2
Respondent records
   HHID=090123 PN=010 CSUBHH=1
   HHID=090123 PN=011 CSUBHH=1 (new wife)
   HHID=090123 PN=020 CSUBHH=2
Household member/child records
   HHID=090123 CSUBHH=1 OPN=151 (his stepchild)
   HHID=090123 CSUBHH=1 OPN=152 (his stepchild)
   HHID=090123 CSUBHH=2 OPN=151 (her mom)

B. Master Codes

Included in this file are the "Master Codes" for HRS. Other areas of the codebook often refer to these lists, as they are too long to replicate at each variable that uses the codes.

The Master Codes in order of appearance, are:

   B1. Health Conditions - Categorical
   B2. Occupation Codes
   B3. State and Country Codes

B1. Health Conditions - Categorical

NOTE: If necessary, use individual "Other" categories if system or type of condition is clear; otherwise, code 997.

Cancers and tumors; skin conditions
101. Cancer—any site or type; leukemia; Hodgkin's disease; melanomas; non-Hodgkin's lymphoma; tumors if specified as malignant; lymphoma; metastasis; angiosarcoma; carcinoma; myeloma/multiple myeloma; myelodysplastic syndrome

102. Tumors, cysts or growths (except 101); polyps; osteomyelitis; pre-cancer; neuroma; benign tumors; mole removal; warts; subdural hygroma

103. Skin conditions—any mention except cancer (101) or tumor (102); dermatitis; eczema; rashes; Paget's disease; skin ulcers; bedsores; bullous pemphigoid; hair loss; pemphigus; subreic karatosis; rosacea; alopecia; psoriasis; burns (also use code 194 if available)

Musculoskeletal system and connective tissue

111. Arthritis; rheumatism; bursitis; ankylosing spondylitis; Reiter’s syndrome; rheumatoid arthritis

112. Back/neck/spine problems: chronic stiffness, deformity or pain; disc problems; scoliosis; spina bifida; bad back; spinal stenosis; back/neck injuries (also use code 194 if available); back/neck sprain (also use code 194 if available)

113. Stiffness, deformity, numbness or chronic pain in foot, leg, arm or hand, shoulder or rotator cuff; bad knee/hip problems; hip/knee replacement; plantar fasciitis; drop foot; leg cramps; tennis elbow; Dupuytren’s contracture; sprain of limb (also use code 194 if available)

114. Missing legs, feet, arms, hands, or fingers (from amputation or congenital deformity)

115. Paralysis—any mention (including from polio)

116. Hernias; hiatal hernia; rectocele; cystocele

117. Muscular dystrophy; mitochondrial myopathy

118. Fibromyalgia; fibromyositis; fibrosis; myofascial pain syndrome

119. Other musculoskeletal or connective tissue problems; lupus; osteoporosis; pinched nerve (location not specified); sciatica/sciatic nerve problem; carpal tunnel syndrome; costochondritis; polymyositis; scleroderma; chromosome leak into the muscles; bone spurs (location not specified); cellulites; tendonitis (location not specified); temporomandibular joint syndrome (TMJ); trigeminal neuralgia; CREST syndrome/limited scleroderma; polimyalgia/polymyalgia rheumatica; avascular necrosis/osteonecrosis; neural muscular myositis, bone disease, myalgia, myositis, osteopenia; adhesions (location not specified); neuritis; skull bone injuries (also use code 194 if available); vascular necrosis; broken or damaged bones (location not specified) from injuries/accidents (also use code 194 if available); pulled muscle (location not specified — also use code 194 if available); strain (location not specified — also use code 194 if available); tendon damage (location not specified — also use code 194 if available); sprain (location not specified — also use code 194 if available); post-polio syndrome (without mention of paralysis); loss of calcium

Heart, circulatory and blood conditions

121. Heart problems: heart attack (coronary) or failure; arteriosclerosis; heart aneurysms; heart deformities/congenital heart deformities; angina; bad heart; congestive heart disease; cardiomyopathy; atrial fibrillation; myocardial infarction (MI); multiple infarction; myocardinitus, endocarditis; myocardial ischemia; heart murmurs; heart valve blockage; heart valve prolapse; heart valve replacement; arterial blockage; hardening of arteries; heart bypass surgery; mitral valve prolapse; myocardial ischemia; rheumatic heart disease

122. High blood pressure / hypertension (HTN); uncontrollable blood pressure; blood pressure problems, not specified high or low
123. Stroke; cerebral hemorrhage or accident; hemotoma (if related to brain); transient ischemic attack (TIA);
124. Blood disorders: blood disease, anemia; aplastic anemia; hypoplastic anemia; hemophilia; polycythemia vera; bad blood; toxemia; cold agglutinin disease; triglycerides or high triglycerides; toxoplasmosis; blood transfusion; sickle cell trait; bone marrow failure; factor VIII/factor VIII deficiency/elevated factor VIII; thrombocytopenia; hemochromatosis;
129. Other circulatory problems; phlebitis, clots/blood clots, embolisms; varicose veins; hemorrhoids; low blood pressure; giant cell arteritis; hemotoma (if not related to brain or location not specified); gangrene; vascular disease; pulmonary thrombosis; pulmonary embolism; Raynaud’s disease; APLS Hughes syndrome; aneurysm (when not in heart or location not specified); elasticity of arteries; calcification of limbs; lymphoedema; claudication, plumary hypertension; rheumatic fever; occult cerebral vascular malformation; bleeding (location not specified); blockage in lung; Rendu-Osler-Weber disease/syndrome

Respiratory system conditions
131. Allergies; hayfever; sinusitis; sinus problems; sinus headaches; tonsillitis; celiac disease/sprue (gluten intolerance); hives
132. Asthma
133. Bronchitis; pneumonia; acute upper respiratory problems; Legionnaire’s disease; fungus in chest; respiratory pulmonary disease
134. Emphysema; chronic obstructive pulmonary disease (COPD); smoking related lung problems
139. Other respiratory/breathing problems; tuberculosis; sarcoidosis; ventilatory insufficiency; pulmonary idiopathic fibrosis; respiratory failure, NFS; asbestos in lungs; black lung; pleurisy

Endocrine, metabolic and nutritional conditions
141. Diabetes; pre-diabetic; high blood sugar
142. Thyroid trouble; goiter; hyperthyroidism; graves disease; Hashimoto’s disease
143. Cystic fibrosis
144. Nutritional problems; weight problems; eating disorders; high cholesterol; hypercholesterolemia; obesity; iron deficiency; overweight; vitamin deficiency
145. Sugar problems, NFS; erratic blood sugar
149. Other endocrine/metabolic problems; pancreatitis; pituitary problems; gland problems; Addison’s disease; gout, nephritic syndrome; primary adrenal insufficient; parathyroid problems; endocrinology syndrome; amyloidosis; haemochromatosis; hypoglycaemia; low blood sugar; loss of calcium; alpha-1 antitrypsin deficiency; acromegaly; hormone problems; hyperpituitarism; hypoglycemia

Digestive system (stomach, liver, gallbladder, kidney, bladder)
151. Stomach and intestinal conditions: acid reflux, reflux disease, heartburn, stomach reflux, GERD, Barrett’s esophagus, ulcers (stomach, peptic, duodenal or not further specified); colitis; ulcerative colitis; gastritis; diverticulosis; diverticulitis; appendicitis; Crohn’s disease; intestinal adhesions; abdominal adhesions; colostomy; sillicates disease; stomach pains, ileostomy, dumping syndrome; gastroenteritis, Irritable Bowel Syndrome; diarrhea; bowel incontinence; appendectomy; enteritis; ileitis; peritonitis; stomach removal
152. Liver conditions: cirrhosis; hepatitis; benign hepatic hypertrophy; encephalopathy (caused by liver problems or cause not specified); jaundice
153. Kidney conditions: kidney stones; kidney failure (including dialysis); nephritis
154. Gallbladder conditions; blockage of bile ducts; gallstones; gallbladder removal
155. Bladder conditions (except 156); urinary infections; interstitial cystitis, urosepsis
156. Urinary incontinence; urinary loss/leakage; problems with bladder control
157. Spleen conditions; enlarged spleen
159. Other digestive system problems; internal bleeding; hemorrhage; esophagus torn, ruptured or bleeding; swallowing difficulty; feeding tube

Neurological and sensory conditions
161. Blindness or vision problems: glaucoma; cataracts; detached/torn retina; macular degeneration; uveitis; ocular myasthenia gravis; conjunctivitis; eye conditions, NFS
162. Deafness; hearing loss or other ear conditions; tinnitus; vestibular disorder; Meniere’s disease
163. Multiple sclerosis; cerebral palsy; epilepsy; Parkinson’s; amyotrophic lateral sclerosis (ALS) or Lou Gehrig’s disease); seizures; neuropathy; peripheral neuropathy
164. Speech conditions--any mention; congenital speech defects; stuttering; laryngectomy; speech impediment
165. Mental retardation; mental impairment; learning disabilities; down syndrome; dyslexia
169. Other neurological/sensory problems; headaches; migraines; dizziness; blackouts; brain damage, NFS (also use code 194 if available); meningitis; arachnoiditis; Bell’s palsy; Charcot-Marie-Tooth disease; Guillain-Barre syndrome; medial nerve palsy; myasthenia gravis/myasthenia (non-ocular); myokymia; reflex sympathetic dystrophy (RSD); restless legs syndrome (RLS); Sjogren’s syndrome; spasmodic torticollis; balance problems; closed head injury; coma; paralyzed diaphragm; facial neuralgia; hydrocephalus; inclusive body myositis; spinal carebella ataxia; benign/familiar tremors, vertigo; upper motor neuron/motoneuron problems; progressive supranuclear palsy (PSP); thoracic outlet syndrome; dysautonomia; shaky hands; spinal cord damage from injuries/accident (also use code 194 if available)

Reproductive system and prostate conditions
171. Pregnancy and childbirth problems; miscarriage; hemorrhaging or complications from birth of child; episiotomy; RH factor
172. Infertility; sterilization; vasectomy; tubal ligation
173. Prostate conditions; PSA/high PSA
179. Other problems of reproductive system; hysterectomy; ovarian problems; PMS; menopause; dysmenorrhea; endometriosis; painful menstrual periods; female problems; gynecological problems, NFS; removal of reproductive organs (excluding cancer and tumors)

Emotional and psychological conditions
181. Alcoholism
182. Drug abuse/addiction/dependence
183. Other severe psychological conditions: (chronic) depression; schizophrenia; mania; paranoia; autism; psychosis; agoraphobia; bipolar disorder (manic-depression); post-traumatic stress disorder (PTSD)
189. Other emotional and psychological problems; mental problems, NFS; nerves; nervous breakdown; stress; stress related problems; night wandering; panic attacks; anxiety; behavioral problems; insomnia; attention deficit disorder (ADD)
Miscellaneous
191. Alzheimer's disease; senility, dementia; multi-infarct dementia; memory loss; mixed cognitive disease
192. Dental and gum conditions--any mention
193. Acute infectious diseases; flu; colds; fever; mumps; Dengue fever; Lyme disease; infection, staph infection; methicillin-resistant staphylococcus aureus (MRSA); Epstein-Barr virus; mononucleosis; influenza; measles; rubella; strep throat; virus, NFS; septic shock; toxic shock; sepsis; shingles; polio (without mention of paralysis)
194. Injuries and traumas: broken bones; fractures; pulled muscles; strains; tendon damage; burns, lacerations; concussion; side effects/conditions due to surgery, side effects due to medication; graft-versus host disease LOW PRIORITY--code resulting chronic or ongoing conditions if possible
195. Sleep disorders; sleep apnea; narcolepsy; catpalzy
196. Immune system disorders; human immunodeficiency virus (HIV) positive; acquired immunodeficiency syndrome (AIDS); AIDS related complex (ARC)

Cause of death
601. Suicide
602. Murder
603. Killed in war/combat
604. Motor vehicle accident - incl. as pedestrian
605. Industrial/work related accident
606. Sporting accident
607. Other accidental death; accidental death - NA type of accident
608. Still born; died at birth or infancy - NFS

Why Admitted
701. No other care arrangements available
702. Deteriorating health; health condition not specified
703. To recover/rehab; for injury/surgery

Other symptoms
595. Old age; everything wore out; bedridden; infirmity; natural causes; failure to thrive in older adults
596. Lack of energy/strength; (chronic) fatigue, NFS; don't have get up and go
597. Edema; retaining water; retaining fluids; swelling (location not specified)
996. None, no health condition(s) mentioned
997. Other health condition
998. DK (Don't Know); NA (Not Ascertained)
999. RF (Refused)

B2. Occupation Codes
Equivalent numeric codes follow the alphabetic codes. Either code may be used, depending on the processing method. The abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

MGR Management Occupations
001. Chief Executives
002. General and Operations Managers
003. Legislators
004. Advertising and Promotions Managers
005. Marketing and Sales Managers
006. Public Relations Managers
010. Administrative Services Managers
011. Computer and Information Systems Managers
012. Financial Managers
013. Human Resources Managers
014. Industrial Production Managers
015. Purchasing Managers
016. Transportation, Storage, and Distribution Managers
020. Farm, Ranch, and Other Agricultural Managers
021. Farmers and Ranchers
022. Construction Managers
023. Education Administrators
030. Engineering Managers
031. Food Service Managers
032. Gaming Managers
034. Lodging Managers
035. Medical and Health Services Managers
036. Natural Science Managers
040. Postmasters and Mail Superintendents
041. Property, Real Estate, and Community Association Managers
042. Social and Community Service Managers
043. Managers, All Other

BUS Business Operations Specialists
050. Agents and Business Managers of Artists, Performers, and Athletes
051. Purchasing Agents and Buyers, Farm Products
052. Wholesale and Retail Buyers, Except Farm Products
053. Purchasing Agents, Except Wholesale, Retail, and Farm Products
054. Claims Adjusters, Appraisers, Examiners, and Investigators
056. Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
060. Cost Estimators
062. Human Resources, Training, and Labor Relations Specialists
070. Logisticians
071. Management Analysts
072. Meeting and Convention Planners
073. Other Business Operations Specialists

FIN Financial Specialists
080. Accountants and Auditors
081. Appraisers and Assessors of Real Estate
082. Budget Analysts
083. Credit Analysts
084. Financial Analysts
085. Personal Financial Advisors
086. Insurance Underwriters
090. Financial Examiners
091. Loan Counselors and Officers
093. Tax Examiners, Collectors, and Revenue Agents
094. Tax Preparers
095. Financial Specialists, All Other

CMM Computer and Mathematical Occupations
100. Computer Scientists and Systems Analysts
101. Computer Programmers
102. Computer Software Engineers
104. Computer Support Specialists
106. Database Administrators
110. Network and Computer Systems Administrators
111. Network Systems and Data Communications Analysts
120. Actuaries
121. Mathematicians
122. Operations Research Analysts
123. Statisticians
124. Miscellaneous Mathematical Scientists and Technicians

**ENG Architecture and Engineering Occupations**
130. Architects, Except Naval
131. Surveyors, Cartographers, and Photogrammetrists
132. Aerospace Engineers
133. Agricultural Engineers
134. Biomedical Engineers
135. Chemical Engineers
136. Civil Engineers
140. Computer Hardware Engineers
141. Electrical and Electronics Engineers
142. Environmental Engineers
143. Industrial Engineers, including Health and Safety
144. Marine Engineers and Naval Architects
145. Materials Engineers
146. Mechanical Engineers
150. Mining and Geological Engineers, Including Mining Safety Engineers
151. Nuclear Engineers
152. Petroleum Engineers
153. Engineers, All Other
154. Drafters
155. Engineering Technicians, Except Drafters
156. Surveying and Mapping Technicians

**SCI Life, Physical, and Social Science Occupations**
160. Agricultural and Food Scientists
161. Biological Scientists
164. Conservation Scientists and Foresters
165. Medical Scientists
170. Astronomers and Physicists
171. Atmospheric and Space Scientists
172. Chemists and Materials Scientists
174. Environmental Scientists and Geoscientists
176. Physical Scientists, All Other
180. Economists
181. Market and Survey Researchers
182. Psychologists
183. Sociologists
184. Urban and Regional Planners
186. Miscellaneous Social Scientists and Related Workers
190. Agricultural and Food Science Technicians
191. Biological Technicians
192. Chemical Technicians
193. Geological and Petroleum Technicians
194. Nuclear Technicians
196. Other Life, Physical, and Social Science Technicians

**CMS Community and Social Services Occupations**
200. Counselors
201. Social Workers
202. Miscellaneous Community and Social Service Specialists
204. Clergy
205. Directors, Religious Activities and Education
206. Religious Workers, All Other

**LGL Legal Occupations**
210. Lawyers
211. Judges, Magistrates, and Other Judicial Workers
214. Paralegals and Legal Assistants
215. Miscellaneous Legal Support Workers

**EDU Education, Training, and Library Occupations**
220. Postsecondary Teachers
230. Preschool and Kindergarten Teachers
231. Elementary and Middle School Teachers
232. Secondary School Teachers
233. Special Education Teachers
234. Other Teachers and Instructors
240. Archivists, Curators, and Museum Technicians
243. Librarians
244. Library Technicians
254. Teacher Assistants
255. Other Education, Training, and Library Workers

**ENT Arts, Design, Entertainment, Sports, and Media Occupations**
260. Artists and Related Workers
263. Designers
270. Actors
271. Producers and Directors
272. Athletes, Coaches, Umpires, and Related Workers
274. Dancers and Choreographers
275. Musicians, Singers, and Related Workers
276. Entertainers and Performers, Sports and Related Workers, All Other
280. Announcers
281. News Analysts, Reporters and Correspondents
282. Public Relations Specialists
283. Editors
284. Technical Writers
285. Writers and Authors
286. Miscellaneous Media and Communication Workers
290. Broadcast and Sound Engineering Technicians and Radio Operators
291. Photographers
292. Television, Video, and Motion Picture Camera Operators and Editors
296. Media and Communication Equipment Workers, All Other

**MED Healthcare Practitioners and Technical Occupations**
300. Chiropractors
301. Dentists
303. Dieticians and Nutritionists
304. Optometrists
305. Pharmacists
306. Physicians and Surgeons
311. Physician Assistants
312. Podiatrists
313. Registered Nurses
314. Audiologists
315. Occupational Therapists
316. Physical Therapists
320. Radiation Therapists
321. Recreational Therapists
322. Respiratory Therapists
323. Speech-Language Pathologists
324. Therapists, All Other
325. Veterinarians
326. Health Diagnosing and Treating Practitioners, All Other
330. Clinical Laboratory Technologists and Technicians
331. Dental Hygienists
332. Diagnostic Related Technologists and Technicians
340. Emergency Medical Technicians and Paramedics
341. Health Diagnosing and Treating Practitioner Support Technicians
350. Licensed Practical and Licensed Vocational Nurses
351. Medical Records and Health Information Technicians
352. Opticians, Dispensing
353. Miscellaneous Health Technologists and Technicians
354. Other Healthcare Practitioners and Technical Occupations

HLS Healthcare Support Occupations
360. Nursing, Psychiatric, and Home Health Aides
361. Occupational Therapist Assistants and Aides
362. Physical Therapist Assistants and Aides
363. Massage Therapists
364. Dental Assistants
365. Medical Assistants and Other Healthcare Support Occupations

PRT Protective Service Occupations
370. First-Line Supervisors/Managers of Correctional Officers
371. First-Line Supervisors/Managers of Police and Detectives
372. First-Line Supervisors/Managers of Fire Fighting and Prevention Workers
373. Supervisors, Protective Service Workers, All Other
374. Fire Fighters
375. Fire Inspectors
380. Bailiffs, Correctional Officers, and Jailers
382. Detectives and Criminal Investigators
383. Fish and Game Wardens
384. Parking Enforcement Workers
385. Police and Sheriff's Patrol Officers
386. Transit and Railroad Police
390. Animal Control Workers
391. Private Detectives and Investigators
392. Security Guards and Gaming Surveillance Officers
394. Crossing Guards
395. Lifeguards and Other Protective Service Workers

EAT Food Preparation and Serving Occupations
400. Chefs and Head Cooks
401. First-Line Supervisors/Managers of Food Preparation and Serving Workers
402. Cooks
403. Food Preparation Workers
404. Bartenders
405. Combined Food Preparation and Serving Workers, Including Fast Food
406. Counter Attendant, Cafeteria, Food Concession, and Coffee Shop
411. Waiters and Waitresses
412. Food Servers, Non-restaurant
413. Dining Room and Cafeteria Attendants and Bartender Helpers
414. Dishwashers
415. Host and Hostesses, Restaurant, Lounge, and Coffee Shop
416. Food Preparation and Serving Related Workers, All Other

**CLN Building and Grounds Cleaning and Maintenance Occupations**
420. First-Line Supervisors/Managers of Housekeeping and Janitorial Workers
421. First-Line Supervisors/Managers of Landscaping, Lawn Service, and Grounds Keeping Workers
422. Janitors and Building Cleaners
423. Maids and Housekeeping Cleaners
424. Pest Control Workers
425. Grounds Maintenance Workers

**PRS Personal Care and Service Occupations**
430. First-Line Supervisors/Managers of Gaming Workers
432. First-Line Supervisors/Managers of Personal Service Workers
434. Animal Trainers
435. Nonfarm Animal Caretakers
440. Gaming Services Workers
441. Motion Picture Projectionists
442. Ushers, Lobby Attendants, and Ticket Takers
443. Miscellaneous Entertainment Attendants and Related Workers
446. Funeral Service Workers
450. Barbers
451. Hairdressers, Hairstylists, and Cosmetologists
452. Miscellaneous Personal Appearance Workers
453. Baggage Porters, Bellhops, and Concierges
454. Tour and Travel Guides
455. Transportation Attendants
460. Child Care Workers
461. Personal and Home Care Aides
462. Recreation and Fitness Workers
464. Residential Advisors
465. Personal Care and Service Workers, All Other

**SAL Sales Occupations**
470. First-Line Supervisors/Managers of Retail Sales Workers
471. First-Line Supervisors/Managers of Non-Retail Sales
472. Cashiers
474. Counter and Rental Clerks
475. Parts Salespersons
476. Retail Salespersons
480. Advertising Sales Agents
481. Insurance Sales Agents
482. Securities, Commodities, and Financial Services Sales Agents
483. Travel Agents
484. Sales Representatives, Services, All Other
485. Sales Representatives, Wholesale and Manufacturing
490. Models, Demonstrators, and Product Promoters
492. Real Estate Brokers and Sales Agents
493. Sales Engineers
494. Telemarketers
495. Door-to-Door Sales Workers, News and Street Vendors, and Related Workers
496. Sales and Related Workers, All Other

OFF Office and Administrative Support Occupations

500. First-Line Supervisors/Managers of Office and Administrative Support Workers
501. Switchboard Operators, Including Answering Service
502. Telephone Operators
503. Communications Equipment Operators, All Other
510. Bill and Account Collectors
511. Billing and Posting Clerks and Machine Operators
512. Bookkeeping, Accounting, and Auditing Clerks
513. Gaming Cage Workers
514. Payroll and Timekeeping Clerks
515. Procurement Clerks
516. Tellers
520. Brokerage Clerks
521. Correspondence Clerks
522. Court, Municipal, and License Clerks
523. Credit Authorizers, Checkers, and Clerks
524. Customer Service Representatives
525. Eligibility Interviewers, Government Programs
526. File Clerks
530. Hotel, Motel, and Resort Desk Clerks
531. Interviewers, Except Eligibility and Loan
532. Library Assistants, Clerical
533. Loan Interviewers and Clerks
534. New Account Clerks
535. Order Clerks
536. Human Resources Assistants, Except Payroll and Timekeeping
540. Receptionists and Information Clerks
541. Reservation and Transportation Ticket Agents and Travel Clerks
542. Information and Record Clerks, All Other
550. Cargo and Freight Agents
551. Couriers and Messengers
552. Dispatchers
553. Meter Readers, Utilities
554. Postal Service Clerks
555. Postal Service Mail Carriers
556. Postal Service Mail Sorters, Processors, and Processing Machine Operators
560. Production, Planning, and Expediting Clerks
561. Shipping, Receiving, and Traffic Clerks
562. Stock Clerks and Order Fillers
563. Weighers, Measurers, Checkers, and Samplers, Recordkeeping
570. Secretaries and Administrative Assistants
580. Computer Operators
581. Data Entry Keyers
582. Word Processors and Typists
583. Desktop Publishers
584. Insurance Claims and Policy Processing Clerks
585. Mail Clerks and Mail Machine Operators, Except Postal Service
586. Office Clerks, General
590. Office Machine Operators, Except Computer
591. Proofreaders and Copy Markers
592. Statistical Assistants
593. Office and Administrative Support Workers, All Other

**FFF Farming, Fishing, and Forestry Occupations**
600. First-Line Supervisors/Managers/Contractors of Farming, Fishing, and Forestry Workers
601. Agricultural Inspectors
602. Animal Breeders
604. Graders and Sorters, Agricultural Products
605. Other Agricultural Workers
610. Fishers and Related Fishing Workers
611. Hunters and Trappers
612. Forest and Conservation Workers
613. Logging Worker

**CON Construction Trades**
620. First-Line Supervisors/Managers of Construction Trades and Extraction Workers
621. Boilermakers
622. Brickmasons, Blockmasons, and Stonemasons
623. Carpenters
624. Carpet, Floor, and Tile Installers and Finishers
625. Cement Masons, Concrete Finishers, and Terrazzo Workers
626. Construction Laborers
630. Paving, Surfacing, and Tamping Equipment Operators
631. Pile-Driver Operators
632. Operating Engineers and Other Construction Equipment Operators
633. Drywall Installers, Ceiling Tile Installers, and Tapers
635. Electricians
636. Glaziers
640. Insulation Workers
642. Painters, Construction and Maintenance
643. Paperhangers
644. Pipelayers, Plumbers, Pipefitters, and Steamfitters
646. Plasterers and Stucco Masons
650. Reinforcing Iron and Rebar Workers
651. Roofers
652. Sheet Metal Workers
653. Structural Iron and Steel Workers
660. Helpers, Construction Trades
666. Construction and Building Inspectors
670. Elevator Installers and Repairers
671. Fence Erectors
672. Hazardous Materials Removal Workers
673. Highway Maintenance Workers
675. Septic Tank Servicers and Sewer Pipe Cleaners
676. Miscellaneous Construction and Related Workers

**EXT Extraction Workers**
680. Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining
682. Earth Drillers, Except Oil and Gas
683. Explosives Workers, Ordnance Handling Experts, and Blasters
684. Mining Machine Operators
691. Roof Bolters, Mining
RPR Installation, Maintenance, and Repair Workers
700. First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
701. Computer, Automated Teller, and Office Machine Repairers
702. Radio and Telecommunications Equipment Installers and Repairers
703. Avionics Technicians
704. Electric Motor, Power Tool, and Related Repairers
705. Electrical and Electronics Installers and Repairers, Transportation Equipment
710. Electrical and Electronics Repairers, Industrial and Utility
711. Electronic Equipment Installers and Repairers, Motor Vehicles
712. Electronic Home Entertainment Equipment Installers and Repairers
713. Security and Fire Alarm Systems Installers
714. Aircraft Mechanics and Service Technicians
715. Automotive Body and Related Repairers
716. Automotive Glass Installers and Repairers
720. Automotive Service Technicians and Mechanics
721. Bus and Truck Mechanics and Diesel Engine Specialists
722. Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics
724. Small Engine Mechanics
726. Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
730. Control and Valve Installers and Repairers
731. Heating, Air Conditioning, and Refrigeration Mechanics and Installers
732. Home Appliance Repairers
733. Industrial and Refractory Machinery Mechanics
734. Maintenance and Repair Workers, General
735. Maintenance Workers, Machinery
741. Electrical Power-Line Installers and Repairers
742. Telecommunications Line Installers and Repairers
743. Precision Instrument and Equipment Repairers
751. Coin, Vending, and Amusement Machine Servicers and Repairers
752. Commercial Divers
754. Locksmiths and Safe Repairers
755. Manufactured Building and Mobile Home Installers
756. Riggers
760. Signal and Track Switch Repairers
761. Helpers--Installation, Maintenance, and Repair Workers
762. Other Installation, Maintenance, and Repair Workers

PRD Production Occupations
770. First-Line Supervisors/Managers of Production and Operating Workers
771. Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
772. Electrical, Electronics, and Electromechanical Assemblers
773. Engine and Other Machine Assemblers
774. Structural Metal Fabricators and Fitters
775. Miscellaneous Assemblers and Fabricators
780. Bakers
781. Butchers and Other Meat, Poultry, and Fish Processing Workers
783. Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
784. Food Batchmakers
785. Food Cooking Machine Operators and Tenders
790. Computer Control Programmers and Operators
792. Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
793. Forging Machine Setters, Operators, and Tenders, Metal and Plastic
796. Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
800. Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
801. Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
802. Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
803. Machinists
804. Metal Furnace and Kiln Operators and Tenders
806. Model Makers and Patternmakers, Metal and Plastic
810. Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic
812. Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
813. Tool and Die Makers
814. Welding, Soldering, and Brazing Workers
816. Lay-Out Workers, Metal and Plastic
820. Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
821. Tool Grinders, Filers, and Sharpeners
822. Metalworkers and Plastic Workers, All Other
823. Bookbinders and Bindery Workers
824. Job Printers
825. Prepress Technicians and Workers
826. Printing Machine Operators
830. Laundry and Dry-Cleaning Workers
831. Pressers, Textile, Garment, and Related Materials
832. Sewing Machine Operators
833. Shoe and Leather Workers and Repairers
834. Shoe Machine Operators and Tenders
835. Tailors, Dressmakers, and Sewers
836. Textile Bleaching and Dyeing Machine Operators and Tenders
840. Textile Cutting Machine Setters, Operators, and Tenders
841. Textile Knitting and Weaving Machine Setters, Operators, and Tenders
844. Fabric and Apparel Patternmakers
845. Upholsterers
846. Textile, Apparel, and Furnishings Workers, All Other
850. Cabinetmakers and Bench Carpenters
851. Furniture Finishers
852. Model Makers and Patternmakers, Wood
854. Woodworking Machine Setters, Operators, and Tenders, Except Sawing
855. Woodworkers, All Other
860. Power Plant Operators, Distributors, and Dispatchers
861. Stationary Engineers and Boiler Operators
862. Water and Liquid Waste Treatment Plant and System Operators
863. Miscellaneous Plant and System Operators
864. Chemical Processing Machine Setters, Operators, and Tenders
865. Crushing, Grinding, Polishing, Mixing, and Blending Workers
871. Cutting Workers
872. Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
873. Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
874. Inspectors, Testers, Sorters, Samplers, and Weighers
875. Jewelers and Precious Stone and Metal Workers
876. Medical, Dental, and Ophthalmic Laboratory Technicians
880. Packaging and Filling Machine Operators and Tenders
881. Painting Workers
883. Photographic Process Workers and Processing Machine Operators
884. Semiconductor Processors
885. Cementing and Gluing Machine Operators and Tenders
886. Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
890. Cooling and Freezing Equipment Operators and Tenders
891. Etchers and Engravers
892. Molders, Shapers, and Casters, Except Metal and Plastic
894. Tire Builders
895. Helpers--Production Workers
896. Production Workers, All Other

TRN Transportation and Material Moving Occupations
900. Supervisors, Transportation and Material Moving Workers
903. Aircraft Pilots and Flight Engineers
904. Air Traffic Controllers and Airfield Operations Specialists
911. Ambulance Drivers and Attendants, Except Emergency Medical Technicians
912. Bus Drivers
913. Driver/Sales Workers and Truck Drivers
914. Taxi Drivers and Chauffeurs
915. Motor Vehicle Operators, All Other
920. Locomotive Engineers and Operators
923. Railroad Brake, Signal, and Switch Operators
924. Railroad Conductors and Yardmasters
926. Subway, Streetcar, and Other Rail Transportation Workers
930. Sailors and Marine Oilers
931. Ship and Boat Captains and Operators
933. Ship Engineers
934. Bridge and Lock Tenders
935. Parking Lot Attendants
936. Service Station Attendants
941. Transportation Inspectors
942. Other Transportation Workers
950. Conveyor Operators and Tenders
951. Crane and Tower Operators
952. Dredge, Excavating, and Loading Machine Operators
956. Hoist and Winch Operators
960. Industrial Truck and Tractor Operators
961. Cleaners of Vehicles and Equipment
962. Laborers and Freight, Stock, and Material Movers, Hand
963. Machine Feeders and Off bearers
964. Packers and Packagers, Hand
965. Pumping Station Operators
972. Refuse and Recyclable Material Collectors
973. Shuttle Car Operators
974. Tank Car, Truck, and Ship Loaders
975. Material Moving Workers, All Other

MIL Military Specific Occupations
980. Military Officer Special and Tactical Operations Leaders/Managers
981. First-Line Enlisted Military Supervisors/Managers
982. Military Enlisted Tactical Ops and Air/Weapons Specialists and Crew members
983. Military, Rank Not Specified (Census only)
999. DK; NA; Don’t know; Not ascertained
### B3. Industry Codes

Equivalent numeric codes follow the alphabetic codes. Either code may be used, depending on the processing method. Abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

#### AGRICULTURE, FORESTRY, FISHING, AND HUNTING

- 017. Crop production
- 018. Animal production
- 019. Forestry except logging
- 027. Logging
- 028. Fishing, hunting, and trapping
- 029. Support activities for agriculture and forestry

#### MINING

- 037. Oil and gas extraction
- 038. Coal mining
- 039. Metal ore mining
- 047. Nonmetallic mineral mining and quarrying
- 049. Support activities for mining

#### UTILITIES

- 057. Electric power generation transmission and distribution
- 058. Natural gas distribution
- 059. Electric and gas and other combinations
- 067. Water, steam, air-conditioning, and irrigation systems
- 068. Sewage treatment facilities
- 069. Not specified utilities

#### CONSTRUCTION

- 077. Construction

#### MANUFACTURING

- 107. Animal food, grain, and oilseed milling
- 108. Sugar and confectionery products
- 109. Fruit and vegetable preserving and specialty food Manufacturing
- 117. Dairy product manufacturing
- 118. Animal slaughtering and processing
- 119. Retail bakeries
- 127. Bakeries except retail
- 128. Seafood and other miscellaneous foods n.e.c.
- 129. Not specified food industries
- 137. Beverage manufacturing
- 139. Tobacco manufacturing
- 147. Fiber, yarn, and thread mills
- 148. Fabric mills, except knitting
- 149. Textile and fabric finishing and coating mills
- 157. Carpets and rugs manufacturing
- 159. Textile product mills except carpets and rugs
- 167. Knitting mills
- 168. Cut and sew apparel manufacturing
- 169. Apparel accessories and other apparel manufacturing
- 177. Footwear manufacturing
- 179. Leather tanning and products, except footwear manufacturing
- 187. Pulp, paper, and paperboard mills
- 188. Paperboard containers and boxes
189. Miscellaneous paper and pulp products
199. Printing and related support activities
207. Petroleum refining
209. Miscellaneous petroleum and coal products
217. Resin, synthetic rubber and fibers, and filaments manufacturing
218. Agricultural chemical manufacturing
219. Pharmaceutical and medicine manufacturing
227. Paint, coating, and adhesives manufacturing
228. Soap, cleaning compound, and cosmetic manufacturing
229. Industrial and miscellaneous chemicals
237. Plastics product manufacturing
238. Tire manufacturing
239. Rubber products, except tires, manufacturing
247. Pottery, ceramics, and related products manufacturing
248. Structural clay product manufacturing
249. Glass and glass product manufacturing
257. Cement, concrete, lime, and gypsum product manufacturing
259. Miscellaneous nonmetallic mineral product manufacturing
267. Iron and steel mills and steel product manufacturing
268. Aluminum production and processing
269. Nonferrous metal, except aluminum, production and processing
277. Foundries
278. Metal forgings and stampings
279. Cutlery and hand tool manufacturing
287. Structural metals and tank and shipping container manufacturing
288. Machine shops; turned product; screw nut and bolt manufacturing
289. Coating, engraving, heat treating and allied activities
297. Ordnance
298. Miscellaneous fabricated metal products manufacturing
299. Not specified metal industries
307. Agricultural implement manufacturing
308. Construction mining and oil field machinery manufacturing
309. Commercial and service industry machinery manufacturing
317. Metalworking machinery manufacturing
318. Engines, turbines, and power transmission equipment manufacturing
319. Machinery manufacturing, n.e.c.
329. Not specified machinery manufacturing
336. Computer and peripheral equipment manufacturing
337. Communications, audio, and video equipment manufacturing
338. Navigation, measuring, electrometrical, and control instruments manufacturing
339. Electronic component and product manufacturing, n.e.c.
347. Household appliance manufacturing
349. Electrical machinery, equipment, and supplies manufacturing, n.e.c.
357. Motor vehicles and motor vehicle equipment manufacturing
358. Aircraft and parts manufacturing
359. Aerospace product and parts manufacturing
367. Railroad rolling stock manufacturing
368. Ship and boat building
369. Other transportation equipment manufacturing
377. Sawmills and wood preservation
378. Veneer, plywood, and engineered wood product manufacturing
379. Prefabricated wood buildings and mobile homes manufacturing
387. Miscellaneous wood product manufacturing
389. Furniture and fixtures
396. Medical equipment and supplies manufacturing
397. Toys, amusement, and sporting goods manufacturing
398. Miscellaneous manufacturing, n.e.c.
399. Not specified manufacturing industries

**WHOLESALE TRADE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>407</td>
<td>Motor vehicles, parts and supplies wholesalers</td>
</tr>
<tr>
<td>408</td>
<td>Furniture and home furnishing wholesalers</td>
</tr>
<tr>
<td>409</td>
<td>Lumber and other construction materials wholesalers</td>
</tr>
<tr>
<td>417</td>
<td>Professional and commercial equipment and supplies wholesalers</td>
</tr>
<tr>
<td>418</td>
<td>Metals and minerals, except petroleum, wholesalers</td>
</tr>
<tr>
<td>419</td>
<td>Electrical goods wholesalers</td>
</tr>
<tr>
<td>426</td>
<td>Hardware, plumbing and heating equipment, and supplies wholesalers</td>
</tr>
<tr>
<td>427</td>
<td>Machinery, equipment, and supplies wholesalers</td>
</tr>
<tr>
<td>428</td>
<td>Recyclable material wholesalers</td>
</tr>
<tr>
<td>429</td>
<td>Miscellaneous durable goods wholesalers</td>
</tr>
<tr>
<td>437</td>
<td>Paper and paper product wholesalers</td>
</tr>
<tr>
<td>438</td>
<td>Drugs, sundries, and chemical and allied product wholesalers</td>
</tr>
<tr>
<td>439</td>
<td>Apparel, fabrics, and notions wholesalers</td>
</tr>
<tr>
<td>447</td>
<td>Groceries and related product wholesalers</td>
</tr>
<tr>
<td>448</td>
<td>Farm product raw material wholesalers</td>
</tr>
<tr>
<td>449</td>
<td>Petroleum and petroleum product wholesalers</td>
</tr>
<tr>
<td>456</td>
<td>Alcoholic beverage wholesalers</td>
</tr>
<tr>
<td>457</td>
<td>Farm supplies wholesalers</td>
</tr>
<tr>
<td>458</td>
<td>Miscellaneous nondurable goods wholesalers</td>
</tr>
<tr>
<td>459</td>
<td>Not specified wholesale trade</td>
</tr>
</tbody>
</table>

**RETAIL TRADE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>467</td>
<td>Automobile dealers</td>
</tr>
<tr>
<td>468</td>
<td>Other motor vehicle dealers</td>
</tr>
<tr>
<td>469</td>
<td>Auto parts, accessories, and tire stores</td>
</tr>
<tr>
<td>477</td>
<td>Furniture and home furnishings stores</td>
</tr>
<tr>
<td>478</td>
<td>Household appliance stores</td>
</tr>
<tr>
<td>479</td>
<td>Radio, TV, and computer stores</td>
</tr>
<tr>
<td>487</td>
<td>Building material and supplies dealers</td>
</tr>
<tr>
<td>488</td>
<td>Hardware stores</td>
</tr>
<tr>
<td>489</td>
<td>Lawn and garden equipment and supplies stores</td>
</tr>
<tr>
<td>497</td>
<td>Grocery stores</td>
</tr>
<tr>
<td>498</td>
<td>Specialty food stores</td>
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<tr>
<td>499</td>
<td>Beer, wine, and liquor stores</td>
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<tr>
<td>507</td>
<td>Pharmacies and drug stores</td>
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<tr>
<td>508</td>
<td>Health and personal care, except drug, stores</td>
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<tr>
<td>509</td>
<td>Gasoline stations</td>
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<tr>
<td>517</td>
<td>Clothing and accessories, except shoe, stores</td>
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<tr>
<td>518</td>
<td>Shoe stores</td>
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<tr>
<td>519</td>
<td>Jewelry, luggage, and leather goods stores</td>
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<tr>
<td>527</td>
<td>Sporting goods, camera, and hobby and toy stores</td>
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<tr>
<td>528</td>
<td>Sewing, needlework and piece goods stores</td>
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<tr>
<td>529</td>
<td>Music stores</td>
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<tr>
<td>537</td>
<td>Book stores and news dealers</td>
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<tr>
<td>538</td>
<td>Department stores</td>
</tr>
<tr>
<td>539</td>
<td>Miscellaneous general merchandise stores</td>
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<tr>
<td>547</td>
<td>Retail florists</td>
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<tr>
<td>548</td>
<td>Office supplies and stationary stores</td>
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<td>549</td>
<td>Used merchandise stores</td>
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<tr>
<td>557</td>
<td>Gift, novelty, and souvenir shops</td>
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<tr>
<td>558</td>
<td>Miscellaneous retail stores</td>
</tr>
<tr>
<td>559</td>
<td>Electronic shopping and mail-order houses</td>
</tr>
<tr>
<td>567</td>
<td>Vending machine operators</td>
</tr>
</tbody>
</table>
568. Fuel dealers
569. Other direct selling establishments
579. Not specified retail trade

**TRANSPORTATION AND WAREHOUSING**

567. Air transportation
568. Rail transportation
569. Water transportation
5617. Truck transportation
5618. Bus service and urban transit
5619. Taxi and limousine service
5627. Pipeline transportation
5628. Scenic and sightseeing transportation
5629. Services incidental to transportation
5637. Postal Service
5638. Courier and messengers
5639. Warehousing and storage

**INFORMATION**

5647. Newspaper publishers
5648. Publishing except newspapers and software
5649. Software publishing
5657. Motion pictures and video industries
5659. Sound recording industries
5667. Radio and television broadcasting and cable
5668. Wired telecommunications carriers
5669. Other telecommunication services
5677. Libraries and archives
5678. Other information services
5679. Data processing services

**FINANCE AND INSURANCE**

5687. Banking and related activities
5688. Savings institutions, including credit unions
5689. Non-depository credit and related activities
5697. Securities, commodities, funds, trusts, and other financial investments
5698. Insurance carriers and related activities

**REAL ESTATE AND RENTAL AND LEASING**

567. Real estate
568. Automotive equipment rental and leasing
56718. Video tape and disk rental
56719. Other consumer goods rental
56719. Commercial, industrial, and other intangible assets rental and leasing

**PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES**

5672. Legal services
56728. Accounting, tax preparation, bookkeeping and payroll services
56729. Architectural, engineering, and related services
56737. Specialized design services
56738. Computer systems design and related services
56739. Management, scientific and technical consulting services
56746. Scientific research and development services
56747. Advertising and related services
56748. Veterinary services
56747. Other professional, scientific and technical services
MANAGEMENT, ADMINISTRATIVE AND SUPPORT, AND WASTE MANAGEMENT SERVICES
757. Management of companies and enterprises
758. Employment services
759. Business support services
767. Travel arrangement and reservation services
768. Investigation and security services
769. Services to buildings and dwellings
777. Landscaping services
778. Other administrative and other support services
779. Waste management and remediation services

EDUCATIONAL SERVICES
786. Elementary and secondary schools
787. Colleges and universities, including junior colleges
788. Business, technical, and trade schools and training
789. Other schools, instruction, and educational services

HEALTH CARE AND SOCIAL ASSISTANCE
797. Offices of physicians
798. Offices of dentists
799. Office of chiropractors
807. Offices of optometrists
808. Offices of other health practitioners
809. Outpatient care centers
817. Home health care services
818. Other health care services
819. Hospitals
827. Nursing care facilities
829. Residential care facilities, without nursing
837. Individual and family services
838. Community food and housing, and emergency services
839. Vocational rehabilitation services
847. Child day care services

ARTS, ENTERTAINMENT, AND RECREATION
856. Independent artists, performing arts, spectator sports, and related industries
857. Museums, art galleries, historical sites, and similar Institutions
858. Bowling centers
859. Other amusement, gambling, and recreation industries

ACCOMODATIONS AND FOOD SERVICES
866. Traveler accommodation
867. Recreational vehicle parks and camps, and rooming and boarding houses
868. Restaurants and other food services
869. Drinking places, alcoholic beverages

OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)
877. Automotive repair and maintenance
878. Car washes
879. Electronic and precision equipment repair and maintenance
887. Commercial and industrial machinery and equipment repair and maintenance
888. Personal and household goods repair and maintenance
889. Footwear and leather goods repair
897. Barber shops
898. Beauty salons
899. Nail salons and other personal care services
907. Dry cleaning and laundry services
908. Funeral homes, cemeteries and crematories
909. Other personal services
916. Religious organizations
917. Civic, social, advocacy organizations, and grantmaking and giving services
918. Labor unions
919. Business, professional, political, and similar Organizations
929. Private households

PUBLIC ADMINISTRATION AND ACTIVE DUTY MILITARY
937. Executive offices and legislative bodies
938. Public finance activities
939. Other general government and support
947. Justice, public order, and safety activities
948. Administration of human resource programs
949. Administration of environmental quality and housing programs
957. Administration of economic programs and space research
959. National security and international affairs
967. U.S. Army
968. U.S. Air Force
969. U.S. Navy
977. U.S. Marines
978. U.S. Coast Guard
979. U.S. Armed Forces, branch not specified
987. Military Reserves or National Guard
999. DK; NA; Don’t know; Not ascertained
C. State and Country Codes

C1. STATES

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<thead>
<tr>
<th>State/Code</th>
<th>State/Code</th>
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<tbody>
<tr>
<td>01.</td>
<td>Alaska (AK)</td>
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<td>Alabama (AL)</td>
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<td>American Samoa, Guam</td>
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<td>53.</td>
<td>(U.S.) Virgin Islands</td>
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<td>Virginia (VA)</td>
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<td>47.</td>
<td>Washington (WA)</td>
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<td>51.</td>
<td>Washington, D.C. (DC)</td>
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</tbody>
</table>
48. West Virginia (WV)
49. Wisconsin (WI)
50. Wyoming (WY)

C2. OTHER U.S.
51. District of Columbia; Washington, D.C.
52. Puerto Rico
53. Guam, American Samoa, U.S. Virgin Islands, Panama Canal Zone
59. USA, NA which state

C3. OTHER COUNTRIES
97. Other Country

98. DK
99. NA