HEALTH AND RETIREMENT STUDY
2014 Exit
Final, Version 1.0
March 2016

Data Description and Usage
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TABLE OF CONTENTS</td>
<td>III</td>
</tr>
<tr>
<td>1. OVERVIEW</td>
<td>5</td>
</tr>
<tr>
<td>1a. The Sample Interviewed in 2014</td>
<td>5</td>
</tr>
<tr>
<td>1b. 2014 Questionnaire Sections</td>
<td>6</td>
</tr>
<tr>
<td>1c. Levels of Files</td>
<td>6</td>
</tr>
<tr>
<td>1c1. Respondent Level Files</td>
<td>7</td>
</tr>
<tr>
<td>1c2. Household Member and Child Level File</td>
<td>7</td>
</tr>
<tr>
<td>1c3. Helper Level File</td>
<td>7</td>
</tr>
<tr>
<td>1c4. Transfer-To-Child Level File</td>
<td>7</td>
</tr>
<tr>
<td>1c5. Transfer-From-Child Level File</td>
<td>7</td>
</tr>
<tr>
<td>2. FILE NAMING CONVENTIONS</td>
<td>7</td>
</tr>
<tr>
<td>3. DATA FILES</td>
<td>8</td>
</tr>
<tr>
<td>4. IDENTIFICATION VARIABLES</td>
<td>8</td>
</tr>
<tr>
<td>4a. Primary Identification Variables</td>
<td>8</td>
</tr>
<tr>
<td>4a1. HHID - Household Identification Number</td>
<td>9</td>
</tr>
<tr>
<td>4a2. YSUBHH - 2014 Sub-Household Identifier</td>
<td>9</td>
</tr>
<tr>
<td>4a3. PN - Person Number</td>
<td>9</td>
</tr>
<tr>
<td>4a4. OPN - Other Person Number</td>
<td>9</td>
</tr>
<tr>
<td>4b. Primary Identification Variables for Datasets at Each of the Five Levels</td>
<td>9</td>
</tr>
<tr>
<td>4c. Secondary Identification Variables</td>
<td>10</td>
</tr>
<tr>
<td>5. DISTRIBUTION FILES AND DIRECTORY STRUCTURE</td>
<td>10</td>
</tr>
<tr>
<td>5a. Distribution Files</td>
<td>10</td>
</tr>
<tr>
<td>5b. Directory Structure</td>
<td>10</td>
</tr>
<tr>
<td>6. PROGRAM STATEMENTS</td>
<td>11</td>
</tr>
<tr>
<td>6a. Using the Files with SAS</td>
<td>11</td>
</tr>
<tr>
<td>6b. Using the Files with SPSS</td>
<td>11</td>
</tr>
<tr>
<td>6c. Using the Files with STATA</td>
<td>11</td>
</tr>
<tr>
<td>7. DOCUMENTATION</td>
<td>12</td>
</tr>
<tr>
<td>7a. Codebook</td>
<td>12</td>
</tr>
<tr>
<td>7a1. Variable Names</td>
<td>12</td>
</tr>
<tr>
<td>7b. Box and Arrow Questionnaire</td>
<td>14</td>
</tr>
<tr>
<td>7c. Master Codes</td>
<td>14</td>
</tr>
<tr>
<td>7d. Online Question Concordance</td>
<td>14</td>
</tr>
<tr>
<td>7e. Cross-Wave Tracker File</td>
<td>14</td>
</tr>
<tr>
<td>7f. Overview of HRS Public Data Files for Cross-sectional and Longitudinal Analysis</td>
<td>14</td>
</tr>
<tr>
<td>8. ADDITIONAL NOTES</td>
<td>14</td>
</tr>
<tr>
<td>8a. Unfolding Bracket Variables and Imputations</td>
<td>14</td>
</tr>
<tr>
<td>8b. Errata</td>
<td>14</td>
</tr>
<tr>
<td>8c. Summary of Data Model (DM) Changes During 2014 Production</td>
<td>14</td>
</tr>
<tr>
<td>9. OBTAINING THE DATA</td>
<td>16</td>
</tr>
<tr>
<td>9a. Registration and Downloading the Data</td>
<td>16</td>
</tr>
<tr>
<td>9b. Conditions of Use</td>
<td>17</td>
</tr>
</tbody>
</table>
9C. PUBLICATIONS BASED ON DATA .................................................. 17

10. IF YOU NEED TO KNOW MORE .................................................... 17
10A. HRS INTERNET SITE ................................................................. 17
10B. CONTACT INFORMATION .......................................................... 17

APPENDIX ..................................................................... I

A. MASTER CODES ............................................................................. I
A1. HEALTH CONDITIONS - CATEGORICAL ........................................ I
A2. OCCUPATION CODES ................................................................. V
A3. STATE AND COUNTRY CODES .................................................. xvii
   A3a. STATES ............................................................................... xvii
   A3b. OTHER U.S. ....................................................................... xviii
   A3c. OTHER COUNTRIES .......................................................... xviii
Data Description and Usage

1. Overview

The 2014 HRS Exit (Final, Version 1.0) 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 (NIA U01AG009740), 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.

The current release of the 2014 Exit (Final, Version 1.0) has 1,242 respondents and 1465 variables. An Exit Interview is attempted with a “proxy informant” for panel members who have died. To the greatest extent possible, proxy informants are knowledgeable about the health, family, and financial situation of the deceased (often the proxy is a widow, widower, or some other family member). The content of the 2014 Exit interview is similar to the 2014 Core (or living) interview. As such, the 2014 Exit data are amenable to answering researchers’ questions concerning medical care, expenditures, how assets are distributed following death, and family decision-making during the latter part of life.

By receiving the data, which have been freely provided, you agree to use them for research and statistical purposes only, and to 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 2014

The data collection period for the 2014 interview was March 2014 through April 2015. The HRS sample is comprised of five sub-samples.

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) or 2004 (EBB). For more details about the sample, see our Web site.

1b. 2014 Questionnaire Sections

The content of the 2014 Exit data collection instrument is roughly equivalent to the content of the HRS 2012 Exit instrument.

<table>
<thead>
<tr>
<th>2014 Section</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR</td>
<td>Preload</td>
</tr>
<tr>
<td>A</td>
<td>Coverscreen</td>
</tr>
<tr>
<td>B</td>
<td>Demographics</td>
</tr>
<tr>
<td>C</td>
<td>Physical Health</td>
</tr>
<tr>
<td>D</td>
<td>Cognition</td>
</tr>
<tr>
<td>E</td>
<td>Family Structure and Transfers</td>
</tr>
<tr>
<td>G</td>
<td>Functional Limitations and Helpers</td>
</tr>
<tr>
<td>J</td>
<td>Employment</td>
</tr>
<tr>
<td>N</td>
<td>Health Services and Insurance</td>
</tr>
<tr>
<td>T</td>
<td>Wills and Life Insurance</td>
</tr>
<tr>
<td>IO</td>
<td>Interviewer Observations</td>
</tr>
<tr>
<td>Y</td>
<td>Time Calculations</td>
</tr>
</tbody>
</table>

1c. Levels of Files

In the 2014 Exit Questionnaire, most questions were asked of all respondents. In addition to the familiar respondent-level files, the 2014 HRS Exit (Final, Version 1.0), contains files at four other levels: household-member-and-child, helper, transfer-to-child, and transfer-from-child.
1c1. Respondent Level Files
Respondent-level files contain questions that were asked of all proxy respondents about the deceased respondent. The files contain one record for each respondent who provided a 2014 Exit interview via proxy.

1c2. Household Member and Child Level File
This file contains characteristics about household members, children, and siblings. The information comes from the X14PR_MC file, and contains one record for each household member, child, or sibling.

1c3. Helper Level File
This file contains information provided by each exit proxy about the deceased respondent’s helpers. A helper may be a person or organization that was reported by the proxy as providing help with ADLs or IADLs in Section G of the 2014 Exit questionnaire. The helper file X14G_HP contains one record for each helper.

1c4. Transfer-To-Child Level File
This file contains information provided by the exit proxy about transfers of money to children or grandchildren. The file X14E_TC contains one record for each transfer to a child or grandchild. Transfers to children are discussed in Section E – Family Structure and Transfers.

1c5. Transfer-From-Child Level File
This file contains information provided by the exit proxy about transfers of money from children or grandchildren. The file X14E_FC contains one record for each transfer from a child or grandchild. Transfers from children are discussed in Section E of the 2014 interview.

2. File Naming Conventions
Files are named beginning with “X14” for HRS 2014 Exit, followed by a letter (or two) designating the questionnaire section. A separator, “_”, and then one or two letters designating the level will follow the section letter designator.

R for respondent-level,
MC for household-member-and-child-level,
HP for helper-level,
TC for transfer-to-child-level, and
FC for transfer-from-child-level files.

For example, the file X14A_R includes variables from section A (coverscreen) at the respondent level. And file X14E_TC includes variables from section E at the monetary transfer-to-child 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 16 data files for the 2014 HRS Exit (Final, Version 1.0) data release. For example,

- X14A_R.DA contains respondent data from section A,
- X14A_R.SAS contains corresponding SAS program statements,
- X14A_R.SPS contains corresponding SPSS program statements,
- X14A_R.DO contains corresponding STATA DO statements,
- X14A_R.DCT contains corresponding STATA dictionary statements, and
- X14A_R.TXT contains the ASCII codebook.

3. Data Files

The 2014 HRS Exit (Final, Version 1.0) data are distributed in 16 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 2014 HRS Exit 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.

Respondent level files: PRIMARY IDS = HHID PN
- X14PR_R   N=1,242 NV=92
- X14A_R    N=1,242 NV=105
- X14B_R    N=1,242 NV=26
- X14C_R    N=1,242 NV=81
- X14D_R    N=1,242 NV=61
- X14E_R    N=1,242 NV=28
- X14G_R    N=1,242 NV=107
- X14J_R    N=1,242 NV=32
- X14N_R    N=1,242 NV=290
- X14T_R    N=1,242 NV=501
- X14IO_R   N=1,242 NV=43
- X14Y_R    N=1,242 NV=17

Household-Member-and-Child level file: PRIMARY IDS = HHID YSUBHH OPN
- X14PR_MC  N=7,911 NV=20

Transfer-to-child level file: PRIMARY IDS = HHID YSUBHH OPN
- X14E_TC   N=419 NV=18

Transfer-from-child level file: PRIMARY IDS = HHID YSUBHH OPN
- X14E_FC   N=193 NV=17

Helper level file: PRIMARY IDS = HHID PN OPN
- X14G_HP   N=3,087 NV=27

4. Identification Variables

Identification variables for HRS 2014 Final Exit (Version 1.0) are stored in character format.

4a. Primary Identification Variables

Several variables, HHID, YSUBHH, PN, and OPN are used in various combinations to uniquely identify the five different levels that comprise this data release.
4a1. HHID – Household Identification Number

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. YSUBHH – 2014 Sub-Household Identifier

In combination with HHID, YSUBHH uniquely identifies a household at the time of the 2014 data collection. Sub-household identifiers can be different at each wave due to dissolution or reconstitution of a household (e.g. divorce, separation, marriage, or death). YSUBHH has one digit. In the 2014 Exit data, YSUBHH will be either 3 or 4.

4a3. PN – Person Number

In combination with HHID, PN uniquely identifies a respondent. 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 2014 data collection HHID, YSUBHH, and OPN uniquely identify another person in the household member and child files; HHID, PN, and OPN uniquely identify another person in the helper files. OPN has three digits.

4b. Primary Identification Variables for Datasets at Each of the Five Levels

Two identifiers uniquely identify records in the
o Respondent level datasets:

1) HHID  HOUSEHOLD IDENTIFICATION NUMBER
2) PN  PERSON NUMBER

Three identifiers uniquely identify records in the
o Helper level datasets:

1) HHID  HOUSEHOLD IDENTIFICATION NUMBER
2) PN  PERSON NUMBER
3) OPN  OTHER PERSON NUMBER

Three identifiers uniquely identify records in the
o Household-member-and-child level dataset:

1) HHID  HOUSEHOLD IDENTIFICATION NUMBER
2) YSUBHH  2014 SUB-HOUSEHOLD IDENTIFICATION NUMBER
3) OPN  OTHER PERSON NUMBER

Three identifiers uniquely identify records in the
o Transfer-to-child level and
o Transfer-from-child level datasets:

1) HHID  HOUSEHOLD IDENTIFICATION NUMBER
2) YSUBHH  2014 SUB-HOUSEHOLD IDENTIFICATION NUMBER
3) OPN  OTHER PERSON 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. The secondary identification variables can be used to link the 2014 Exit data with Core data from previous waves, or to link a deceased respondent with data from their surviving spouse or partner.

Secondary Identification Variables for
  o Respondent level and
  o Helper level datasets:

    1) NSUBHH  2012 SUB-HOUSEHOLD IDENTIFICATION NUMBER
    2) YPN_SP  2014 SPOUSE/PARTNER PERSON NUMBER

Secondary Identification Variables for
  o Household-member-and-child level,
  o Transfer-from-child level and
  o Transfer-to-child level datasets:

    1) NSUBHH  2012 SUB-HOUSEHOLD IDENTIFICATION NUMBER

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 and one .pdf file, or the seven smaller files available individually for separate download. The combined file is x14exit.zip.

The individual files for separate download are:

Data file
  x14da.zip containing data files.

Program statement files
  X14sas.zip containing SAS data descriptors.
  X14sps.zip containing SPSS data descriptors.
  X14sta.zip containing STATA data descriptors.

Documentation files
  X14cb.zip containing the codebook.
  H14qn.zip containing the questionnaire.
  X14dd.pdf - this document.

5b. Directory Structure

While a particular setup is not required for using the 2014 HRS Final Exit files, if the following directory structure is used, then no changes to the path name in the data descriptor files are necessary. If you use a different structure, change the directory references in the distribution files.

<table>
<thead>
<tr>
<th>Directory</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>c:\x2014\</td>
<td>Files downloaded from Web site</td>
</tr>
<tr>
<td>c:\x2014\codebook</td>
<td>Unzipped files from x14cb.zip</td>
</tr>
<tr>
<td>c:\x2014\data</td>
<td>Unzipped files from x14da.zip</td>
</tr>
<tr>
<td>c:\x2014\qnare</td>
<td>Unzipped files from h14qn.zip</td>
</tr>
</tbody>
</table>
Decompress the selected .zip files into the appropriate subdirectories. You will need about 4.0 MB of free space on your storage device to store the 16 .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 a .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 X14A_R.SAS go with the X14A_R.DA data file.

6a. Using the Files with SAS

In order to create a SAS system file for a particular dataset, two file types must be present:
- .SAS program statement files
- .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:\x2014\sas" and the data file is located in "c:\x2014\data", you can run the file as is. A SAS system file (*.SD2 or *.SAS7BDAT) will be saved to the "c:\x2014\sas" directory.

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 program.

6b. Using the Files with SPSS

In order to create an SPSS system file for a particular dataset, two file types must be present:
- .SPS program statement files
- .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:\x2014\spss" and the data file is located in "c:\x2014\data", you can run the file as is. An SPSS system file (*.SAV) will be saved to the "c:\x2014\spss" directory.

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

In order to use STATA with a particular dataset, the following three file types must be present:
- .DCT files,
- .DO files
- .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 are used 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:\x2014\stata" and the data file is located in "c:\x2014\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 running 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, go to Edit, then Select All, go to Format, Change Case, and select lowercase.

7. Documentation

There are several types of documentation available for use with the 2014 HRS Exit (Final, Version 1.0) data release. These include a codebook, the 2014 box-and-arrow questionnaire, online question concordance and this data description, which includes a list of master codes.

7a. Codebook

The HRS 2014 Exit Codebook is provided as a series of 16 individual ASCII text files, as well as a single file containing all sections. There is a codebook file corresponding to each data file, and a complete codebook that includes all sections. 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 (X for 2014 Exit), followed by the section letter, and numbers after the section letter. For example, YC030 where Y=2014 Exit, C=Section C (physical health), and 030 is the variable number. Variables from the preload section contain either “X” or “Z” as section prefix letters. The “X” section prefix indicates a variable that is updated by data collected in later sections of the questionnaire, whereas the “Z” section prefix indicates preloaded data that were not changed by subsequent answers to questions. For example, YZ007 (PREV WAVE R FIN/FAM TYPE) signifies the Family/Financial Type assigned from the previous wave’s interview, whereas YX007 (RESP FAM/FIN TYPE – UPDATED) indicates the current wave Family/Financial Type, which was updated based on responses in the 2014 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, YC021M1 through YC021M6 are 2014 variables from section C with one through six mentions.

Simple loop variables (without a multiple mention) have an underscore (_) in their name and a suffix that designates the loop, e.g., YN025_1.
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 are 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 2014 Exit Final (Version 1.0) public dataset. Names, addresses, days of birth, information on geographical relocation, and similar variables are not included in publicly released files. Some of these variables may be made available to analysts as restricted data. See our Web site for details.

Geographical locations are recoded to a level no more detailed than that of the U.S. Census Region and Division. Data on the highest educational degree earned have been further grouped together to increase cell sizes.

The names of variables that were masked for confidentiality end in the letter "M"; for example, variable YX026M (1ST ADDRESS STATE - MASKED). In the 2014 Exit Final Release, the following variables are masked:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>YX026M</td>
<td>1ST ADDRESS STATE - MASKED</td>
</tr>
<tr>
<td>YX030M</td>
<td>2ND ADDRESS STATE - MASKED</td>
</tr>
<tr>
<td>YZ031M</td>
<td>PREV WAVE 2ND RESIDENCE STATE - MASKED</td>
</tr>
<tr>
<td>YA126M</td>
<td>R DIED- STATE - MASKED</td>
</tr>
<tr>
<td>YA129M</td>
<td>R DEATH CERTIFICATE- STATE - MASKED</td>
</tr>
<tr>
<td>YA133M1M</td>
<td>CAUSE OF DEATH-MASKED- 1</td>
</tr>
<tr>
<td>YA133M2M</td>
<td>CAUSE OF DEATH-MASKED- 2</td>
</tr>
<tr>
<td>YA068M</td>
<td>REGION FACILITY LOCATED - MASKED</td>
</tr>
<tr>
<td>YA076M</td>
<td>CURRENT RESIDENCE STATE - MASKED</td>
</tr>
<tr>
<td>YA081M</td>
<td>OTHER RESIDENCE STATE - MASKED</td>
</tr>
<tr>
<td>YC108M1M</td>
<td>OTHER MEDICAL CONDITIONS-SP-MASKED-1</td>
</tr>
<tr>
<td>YC108M2M</td>
<td>OTHER MEDICAL CONDITIONS-SP-MASKED-2</td>
</tr>
<tr>
<td>YC209M1M</td>
<td>DIAGNOSIS OF MEMORY PROBLEM-MASKED-1</td>
</tr>
<tr>
<td>YC209M2M</td>
<td>DIAGNOSIS OF MEMORY PROBLEM-MASKED-2</td>
</tr>
<tr>
<td>YN314M1M</td>
<td>WHY ADMITTED - FINAL- 1- MASKED</td>
</tr>
<tr>
<td>YN314M2M</td>
<td>WHY ADMITTED - FINAL- 2- MASKED</td>
</tr>
<tr>
<td>YT158M</td>
<td>WHICH STATE WILL PROBATED - MASKED</td>
</tr>
</tbody>
</table>

7a1c. Rules - Conditions

The conditions that allow a respondent to get a question or sequence of questions have been included in the codebook above the variable name and label. However, the programming of the instrument reused blocks of programming for similar sequences (e.g., the questions about people in the household and the pension questions). While these questions are similar, sometimes the conditions to get them or the pattern within the sequence itself are not the same. We have eliminated these discrepancies wherever possible but you will find some rules that should not apply to some sequences here and there.

In addition, there can be inconsistencies when a Respondent decides to go back and change an answer that controls flow. We strongly recommend that you also check the Box and Arrow questionnaire whenever you have a question about flow and whether a respondent should be in a particular sequence.
7b. **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 2014 HRS Exit data were collected using a CAI program, a traditional hard-copy questionnaire was not produced as part of the data collection phase. However, we have provided a version of the traditional box-and-arrow questionnaire to help document the asking sequence of the questions.

7c. **Master Codes**

A master code file contains detailed codeframes used in several sections of the codebook. The master codes include health conditions, alphabetical list of health conditions, occupation codes, industry codes, and state and country codeframes. The master codes appear in the Appendix of this document.

7d. **Online Question Concordance**

This documentation resource lets researchers scan the metadata of publicly released HRS datasets in order to find questions asked in a given wave or waves. It contains one record for each of the questions represented by one or more variables in a specified public file. Concordance records are linked over time only in that they have keywords in common, or appear in similar sections in different years. It is located here: [http://hrsonline.isr.umich.edu/concord/index.html](http://hrsonline.isr.umich.edu/concord/index.html).

7e. **Cross-Wave Tracker File**

The HRS tracker file is created to facilitate the use of HRS data within and across waves. The file contains one record for every person who was ever eligible to be interviewed in any wave. Each record contains basic demographic information, interview status, and if, when and how an interview was conducted in each wave. Also included are cross-sectional weights and information on inter-respondent relationships, which are vital to almost all substantive analyses of the HRS data. Please see the [Cross-wave Tracker File Data Description](http://hrsonline.isr.umich.edu/sitedocs/dmgt/OverviewofHRSPublicData.pdf) for a more detailed description.

7f. **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](http://hrsonline.isr.umich.edu/sitedocs/dmgt/OverviewofHRSPublicData.pdf)

8. **Additional Notes**

Found here are miscellaneous additional notes regarding HRS 2014 Exit Final Data Release (Version 1.0). If we become aware of additional issues, they will be posted on our Web site in the Data Alerts section.

8a. **Unfolding Bracket Variables and Imputations**

Typically, a series of unfolding bracket questions follow a lead-in question asking for an amount. If a valid amount was not given, a series of “unfolding” questions were asked. The manner in which the unfolding questions were programmed using Blaise for the 2002 through 2014 surveys is different from the way it was programmed in SurveyCraft for the 1993 through 2000 surveys. This change was transparent to the respondents, since exactly the same questions were asked with
the new software; but it did have an implication for the data that were stored and subsequently released.

Instead of storing the response to each unfolding question as was done on waves prior to 2002, three summary variables were generated for HRS 2002 and beyond, a 'MINIMUM', a 'MAXIMUM', and a 'RESULT' variable. The minimum and maximum values are stored based on the answers to the unfolding questions. If the last answer a respondent gave in an unfolding sequence was either "Don’t Know" or "Refused," that information is stored in the 'RESULT' variable. If the Respondent said "more than" to the unfolding question with the highest value, then the maximum value was stored as 99999996. Greater than Maximum Breakpoint.

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 (YX511) and the unfolding sequence that uses the random entry point from YX511.

Preload Variable from the data file X14pr_r:

<table>
<thead>
<tr>
<th>YX511</th>
<th>PREASSIGNED RANDOM VALUE -11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Section: PR Level: Respondent Type: Numeric Width: 1 Decimals: 0 Ref: RTab[1].X511_1Random1_3</td>
</tr>
<tr>
<td></td>
<td>PREASSIGNED RANDOM VALUE</td>
</tr>
</tbody>
</table>

| 381   | 1. RANDOM ASSIGNMENT 1 |
| 421   | 2. RANDOM ASSIGNMENT 2 |
| 440   | 3. RANDOM ASSIGNMENT 3 |

Unfolding Series from section E that uses YX511 to assign respondents an entry point:

<table>
<thead>
<tr>
<th>YE083</th>
<th>TRANSFER TO CHILD - MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Section: E Level: To Child Type: Numeric Width: 5 Decimals: 0 Ref: SecE.KidTransMain.TransToKid[1].E083_</td>
</tr>
<tr>
<td></td>
<td>Did it amount to a total of less than $____ , more than $____ , or what? PROCEDURES: 2Up, 1Up1Down, 2Down BREAKPOINTS: $1,000, $5,000, $20,000 RANDOM ENTRY POINT ASSIGNMENT [1 ($1,000)] or [2 ($5,000)] or [{NOT 1 and NOT 2} ($20,000)] AT X511</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 Statement 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 3050
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 2014 HRS Exit (Final, Version 1.0) 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.

http://hrsonline.isr.umich.edu/

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 3050
The University of Michigan

March 2016, Version 1.0
APPENDIX

A. 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

A1. 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; subrreic 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; polymyalgia/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; myocarditis; 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 agglutin disease; triglycerides or high triglycerides; toxoplasmosis; blood transfusion; sickle cell trait; bone marrow failure; factor VIII/factorVIII 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 idelopathic 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, nephrotic syndrome; primary adrenal insufficient; parathyroid problems; endocrinology syndrome; amyloidosis; haemochromatosis; hypoglycemia; 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; arachnoinditis; 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 nueralga; 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; cataplayz
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)

A2. 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. Funeral Directors
033. 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

March 2016, Version 1.0
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
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
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>554</td>
<td>Postal Service Clerks</td>
</tr>
<tr>
<td>555</td>
<td>Postal Service Mail Carriers</td>
</tr>
<tr>
<td>556</td>
<td>Postal Service Mail Sorters, Processors, and Processing Machine Operators</td>
</tr>
<tr>
<td>560</td>
<td>Production, Planning, and Expediting Clerks</td>
</tr>
<tr>
<td>561</td>
<td>Shipping, Receiving, and Traffic Clerks</td>
</tr>
<tr>
<td>562</td>
<td>Stock Clerks and Order Fillers</td>
</tr>
<tr>
<td>563</td>
<td>Weighers, Measurers, Checkers, and Samplers, Recordkeeping</td>
</tr>
<tr>
<td>570</td>
<td>Secretaries and Administrative Assistants</td>
</tr>
<tr>
<td>580</td>
<td>Computer Operators</td>
</tr>
<tr>
<td>581</td>
<td>Data Entry Keyers</td>
</tr>
<tr>
<td>582</td>
<td>Word Processors and Typists</td>
</tr>
<tr>
<td>583</td>
<td>Desktop Publishers</td>
</tr>
<tr>
<td>584</td>
<td>Insurance Claims and Policy Processing Clerks</td>
</tr>
<tr>
<td>585</td>
<td>Mail Clerks and Mail Machine Operators, Except Postal Service</td>
</tr>
<tr>
<td>586</td>
<td>Office Clerks, General</td>
</tr>
<tr>
<td>590</td>
<td>Office Machine Operators, Except Computer</td>
</tr>
<tr>
<td>591</td>
<td>Proofreaders and Copy Markers</td>
</tr>
<tr>
<td>592</td>
<td>Statistical Assistants</td>
</tr>
<tr>
<td>593</td>
<td>Office and Administrative Support Workers, All Other</td>
</tr>
<tr>
<td>600</td>
<td>First-Line Supervisors/Managers/Contractors of Farming, Fishing, and Forestry Workers</td>
</tr>
<tr>
<td>601</td>
<td>Agricultural Inspectors</td>
</tr>
<tr>
<td>602</td>
<td>Animal Breeders</td>
</tr>
<tr>
<td>604</td>
<td>Graders and Sorters, Agricultural Products</td>
</tr>
<tr>
<td>605</td>
<td>Other Agricultural Workers</td>
</tr>
<tr>
<td>610</td>
<td>Fishers and Related Fishing Workers</td>
</tr>
<tr>
<td>611</td>
<td>Hunters and Trappers</td>
</tr>
<tr>
<td>612</td>
<td>Forest and Conservation Workers</td>
</tr>
<tr>
<td>613</td>
<td>Logging Worker</td>
</tr>
<tr>
<td>620</td>
<td>First-Line Supervisors/Managers of Construction Trades and Extraction Workers</td>
</tr>
<tr>
<td>621</td>
<td>Boilermakers</td>
</tr>
<tr>
<td>622</td>
<td>Brickmasons, Blockmasons, and Stonemasons</td>
</tr>
<tr>
<td>623</td>
<td>Carpenters</td>
</tr>
<tr>
<td>624</td>
<td>Carpet, Floor, and Tile Installers and Finishers</td>
</tr>
<tr>
<td>625</td>
<td>Cement Masons, Concrete Finishers, and Terrazzo Workers</td>
</tr>
<tr>
<td>626</td>
<td>Construction Laborers</td>
</tr>
<tr>
<td>630</td>
<td>Paving, Surfacing, and Tamping Equipment Operators</td>
</tr>
<tr>
<td>631</td>
<td>Pile-Driven Operators</td>
</tr>
<tr>
<td>632</td>
<td>Operating Engineers and Other Construction Equipment Operators</td>
</tr>
<tr>
<td>633</td>
<td>Drywall Installers, Ceiling Tile Installers, and Tapers</td>
</tr>
<tr>
<td>635</td>
<td>Electricians</td>
</tr>
<tr>
<td>636</td>
<td>Glaziers</td>
</tr>
<tr>
<td>640</td>
<td>Insulation Workers</td>
</tr>
<tr>
<td>642</td>
<td>Painters, Construction and Maintenance</td>
</tr>
<tr>
<td>643</td>
<td>Paperhangers</td>
</tr>
<tr>
<td>644</td>
<td>Pipelayers, Plumbers, Pipefitters, and Steamfitters</td>
</tr>
<tr>
<td>646</td>
<td>Plasterers and Stucco Masons</td>
</tr>
<tr>
<td>650</td>
<td>Reinforcing Iron and Rebar Workers</td>
</tr>
<tr>
<td>651</td>
<td>Roofers</td>
</tr>
<tr>
<td>652</td>
<td>Sheet Metal Workers</td>
</tr>
<tr>
<td>653</td>
<td>Structural Iron and Steel Workers</td>
</tr>
<tr>
<td>660</td>
<td>Helpers, Construction Trades</td>
</tr>
</tbody>
</table>
666. Construction and Building Inspectors
670. Elevator Installers and Repairers
671. Fence Erectors
672. Hazardous Materials Removal Workers
673. Highway Maintenance Workers
674. Rail-Track Laying and Maintenance Equipment Operators
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
692. Roustabouts, Oil and Gas
693. Helpers--Extraction Workers
694. Other Extraction Workers

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
719. Automotive Service Technicians and Mechanics
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
723. 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
736. Millwrights
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

Source: U.S. Census Bureau, Demographic Surveys Division,
Created: August 7 2001
A3. State and Country Codes

A3a. STATES
01. Alaska (AK)
02. Alabama (AL)
53. American Samoa, Guam
03. Arizona (AZ)
04. Arkansas (AR)

05. California (CA)
06. Colorado (CO)
07. Connecticut (CT)

08. Delaware (DE)
51. Dist. of Columbia (DC)

09. Florida (FL)
10. Georgia (GA)
53. Guam (GU)

11. Hawaii (HI)
12. Idaho (ID)
13. Illinois (IL)
14. Indiana (IN)
15. Iowa (IA)

16. Kansas (KS)
17. Kentucky (KY)

18. Louisiana (LA)
19. Maine (ME)
20. Maryland (MD)
21. Massachusetts (MA)
22. Michigan (MI)
23. Minnesota (MN)
24. Mississippi (MS)
25. Missouri (MO)
26. Montana (MT)

27. Nebraska (NE)
28. Nevada (NV)
29. New Hampshire (NH)
30. New Jersey (NJ)
31. New Mexico (NM)
32. New York (NY)
33. North Carolina (NC)
34. North Dakota (ND)

35. Ohio (OH)
36. Oklahoma (OK)
37. Oregon (OR)
38. Pennsylvania (PA)  
52. Puerto Rico (PR)

39. Rhode Island (RI)  
40. South Carolina (SC)  
41. South Dakota (SD)

42. Tennessee (TN)  
43. Texas (TX)

44. Utah (UT)

45. Vermont (VT)  
53. (U.S.) Virgin Islands  
46. Virginia (VA)

47. Washington (WA)  
51. Washington, D.C. (DC)

48. West Virginia (WV)  
49. Wisconsin (WI)  
50. Wyoming (WY)

**A3b. 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

**A3c. OTHER COUNTRIES**

97. Other Country

98. DK

99. NA