

HEALTH AND RETIREMENT STUDY  
2010 Core  
Final, Version 6.0  
August, 2021

Data Description and Usage



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# Data Description and Usage

## 1. Overview

The 2010 HRS Core (Final, Version 5.0) 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 2010

The data collection period for the 2010 interview was March 2010 through November 2011. 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.

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. This supplemental sample is referred to as the minority oversample. The variable "MOS" flags respondents who are in this subsample (1=in minority oversample).

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. 2010 Questionnaire Sections**

2010 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 2010 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 2010 HRS Core (Final, Version 5.0), contains files at five other levels: household-member-and-child, sibling, helper, transfer-to-child and transfer-from-child.

### **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 2010.

### **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 2010.

### **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, H10PR\_SB.

### **1C4. Household Member and Child Level Files**

These files contain characteristics about household members and children. The 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.

## **2. File Naming Conventions**

Files are named beginning with "H10" for HRS 2010, 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

For example, the file H10A\_R includes variables from section A (coverscreen) at the respondent level, whereas, H10A\_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 39 data files for the 2010 HRS Core (Final, Version 5.0) data release. For example,

H10A\_R.DA contains respondent data from section A,  
H10A\_R.SAS contains corresponding SAS program statements,  
H10A\_R.SPS contains corresponding SPSS program statements,  
H10A\_R.DO contains corresponding STATA DO statements,  
H10A\_R.DCT contains corresponding STATA dictionary statements, and  
H10A\_R.TXT contains the ASCII codebook.

## **3. Data Files**

The 2010 HRS Core (Final, Version 5.0) data are distributed in 39 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 2010 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 MSUBHH

H10PR_H	N=15280	NV= 44
H10A_H	N=15280	NV= 42
H10E_H	N=15280	NV= 134
H10H_H	N=15280	NV= 231
H10Q_H	N=15280	NV= 728
H10R_H	N=15280	NV= 114
H10U_H	N=15280	NV= 246
H10IO_H	N=15280	NV= 74

Respondent level files, IDS=HHID PN

H10PR_R	N=22034	NV= 166
H10A_R	N=22034	NV= 32
H10B_R	N=22034	NV= 184
H10C_R	N=22034	NV= 252
H10D_R	N=22034	NV= 203
H10RC_R	N=22034	NV= 103
H10F_R	N=22034	NV= 199
H10G_R	N=22034	NV= 143
H10I_R	N=22034	NV= 187
H10IO_R	N=22034	NV= 123
H10J_R	N=22034	NV= 1577
H10K_R	N=22034	NV= 261
H10L_R	N=22034	NV= 452
H10LB_R	N=22034	NV= 401
H10M1_R	N=22034	NV= 269
H10M2_R	N=22034	NV= 475
H10N_R	N=22034	NV= 345
H10P_R	N=22034	NV= 53
H10S_R	N=22034	NV= 111
H10T_R	N=22034	NV= 85
H10TN_R	N=22034	NV= 15
H10V_R	N=22034	NV= 247
H10W_R	N=22034	NV= 47
H10Y_R	N=22034	NV= 87

Household member and child level files IDS=HHID MSUBHH OPN

H10PR_MC	N=83453	NV= 26
H10E_MC	N=79040	NV= 27

Sibling level files IDS=HHID PN OPN

H10PR_SB	N=25507	NV= 19
H10F_SB	N=25507	NV= 28

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

H10E_TC	N= 7741	NV= 23
---------	---------	--------

Transfer-from-child-level-file IDS=HHID MSUBHH

H10E_FC	N= 1023	NV= 24
---------	---------	--------

Helper level file IDS=HHID PN OPN

H10G_HP	N= 6735	NV= 30
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At a later date, household and respondent level weight variables for the 2010 sample will be available in the HRS cross-wave Tracker file.

#### **4. Identification Variables**

Identification variables for HRS 2010 are stored in character format.

##### **4A. Primary Identification Variables**

Several variables, HHID, MSUBHH, 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. MSUBHH - 2010 Sub-household Identifier**

In combination with HHID, MSUBHH uniquely identifies a household at the time of the 2010 data collection. Sub-household identifiers can be different at each wave. MSUBHH 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 2010 data collection HHID, MSUBHH 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 Seven Levels**

Two identifiers uniquely identify records in the

- o respondent-level datasets:
  - 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
  - 2) PN RESPONDENT PERSON IDENTIFICATION NUMBER

Two identifiers uniquely identify records in the

- o household-level datasets:

- 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
- 2) MSUBHH 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER

Three identifiers uniquely identify records in the

- o 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

- o household-member-and-child-level:
  - 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
  - 2) MSUBHH 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER
  - 3) OPN OTHER PERSON NUMBER

Three identifiers uniquely identify records in the

- o 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

- o transfer-to-child-level, and
- o transfer-from-child-level datasets:
  - 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
  - 2) MSUBHH 2010 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. Two sets of secondary identification variables are provided. They are listed below.

Secondary Identification Variables for

- o respondent-level,
- o sibling level and
- o helper-level datasets:

- MSUBHH 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER
- LSUBHH 2008 SUB HOUSEHOLD IDENTIFICATION NUMBER
- MPN\_SP 2010 SPOUSE/PARTNER PERSON NUMBER
- MCSR 2010 WHETHER COVERSHEET RESPONDENT
- MFAMR 2010 WHETHER FAMILY RESPONDENT
- MFINR 2010 WHETHER FINANCIAL RESPONDENT

Secondary Identification Variables for

- o household level,
- o household member or child level,
- o transfer-from-child-level and
- o transfer-to-child-level:

- MSUBHH 2010 SUB HOUSEHOLD IDENTIFICATION NUMBER
- LSUBHH 2008 SUB HOUSEHOLD IDENTIFICATION NUMBER
- MPN\_CS PERSON NUMBER OF COVER SCREEN RESPONDENT

MPN\_FAM 2010 FAMILY RESP PERSON NUMBER  
MPN\_FIN 2010 FINANCIAL RESP PERSON NUMBER  
MPN\_NCS 2010 NON-COVERSCREEN RESP PERSON NUMBER  
MPN\_NFAM 2010 NON-FAMILY RESP PERSON NUMBER  
MPN\_NFIN 2010 NON-FINANCIAL RESP PERSON NUMBER

#### **4D. Datasets Including MSUBHH and OPN as Primary Identifiers**

When working with datasets including MSUBHH and OPN as primary identifiers -- household-member-and-child-level, it is essential to use MSUBHH 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 Divorces](#), the record where HHID is 089012, MSUBHH is 1, and OPN is 101 is the report about the child from the mother, and the record where HHID is 089012, MSUBHH 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, MSUBHH is 2, and OPN is 151 is for the ex-wife's mother, while the record where HHID is 901231, MSUBHH 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 H10core.zip.

The individual .zip files for separate download are:

Data file

H10da.zip contains data files.

Program statement files

H10sas.zip contains SAS data descriptors.

H10sps.zip contains SPSS data descriptors.

H10sta.zip contains STATA data descriptors.

Documentation files

H10cb.zip contains the codebook.

H10qn.zip contains the questionnaire.

H10dd.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.

Directory	Contents
c:\hrs2010	Files downloaded from Web site
c:\hrs2010\codebook	Unzipped files from H10cb.zip
c:\hrs2010\data	Unzipped files from H10da.zip
c:\hrs2010\qnaire	Unzipped files from H10qn.zip
c:\hrs2010\sas	Unzipped files from H10sas.zip
c:\hrs2010\spss	Unzipped files from H10sps.zip
c:\hrs2010\STATA	Unzipped files from H10sta.zip

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 39 .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 H10A\_R.SAS go with the H10A\_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:\hrs2010\sas" and the data file is located in "c:\hrs2010\data", you can run the file as is. A SAS system file (\*.SD2 or \*.SAS7BDAT) will be saved to directory "c:\hrs2010\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:\hrs2010\spss" and the data file is located in "c:\hrs2010\data", you can run the file as is. An SPSS system file (\*.SAV) will be saved to directory "c:\hrs2010\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:\hrs2010\STATA" and the data file is located in "c:\hrs2010\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 2010 HRS Core (Final, Version 5.0) data release. These include a codebook and the 2008 box-and-arrow questionnaire. In addition, 2010 variables have been added to the [Online Concordance](#).

### **7A. Codebook**

The HRS 2010 Codebook is provided as a series of 39 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 (M for 2010), followed by the section letter, and numbers after the section letter. For example, MC001 where M=2010, 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:

```
MX007_R    RESP FAM/FIN TYPE - UPDATED
MZ077_R    PREV WAVE R FIN/FAM TYPE
```

MX007\_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 2010 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, MN219M1 through MN219M5 are 2010 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, MN049\_1M1, is a 2010 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., MN025\_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, MKW097A1 is a 2010 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, MKW002A 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 were 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 2000 U.S. Census codes have been used to code the occupation and industry data in 2010. At a future date, the HRS 2010 occupation and industry variables will be coded using the 2010 U.S. census codes and released to the public.

The names of variables that were masked for confidentiality end in the capital letter "M"; for example, variable MX026M (1ST ADDRESS STATE - MASKED) and variable MB024M (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 ~~not~~ 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 2010 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, alphabetical list of 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 2010 HRS Core (Final, Version 5.0). 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:

MPN\_FAM - 2010 FAMILY RESP PERSON NUMBER  
MPN\_FIN - 2010 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 (MZ041) and the unfolding sequence that uses the random entry point from MZ041.

Example Random Entry Assignment Variable from Preload:

Preload Variable from the data file H10pr\_h:

.....  
MZ041 PREASSIGNED UNFOLD RANDOM VALUE - SELF EMPLOYMENT  
Section: PR Level: Household Type: Numeric Width: 1  
Decimals: 0 Ref: Preload\_HH.X041\_UnfSEmpInc\_V

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 MZ041 to assign respondents an entry point:

.....  
MQ016 R INCOME FROM SELF EMPLOYMENT - MIN  
Section: Q Level: Household Type: Numeric Width: 6  
Decimals: 0 Ref: SecQ.RIncome.Q016\_

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 LZ041

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

.....  
MQ017 R INCOME FROM SELF EMPLOYMENT - MAX  
Section: Q Level: Household Type: Numeric Width: 8  
Decimals: 0 Ref: SecQ.RIncome.Q017\_

\*

```

.....
      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
.....
MQ018          R INCOME FROM SELF EMPLOYMENT - RESULT
Section: Q      Level: Household      Type: Numeric      Width: 2
Decimals: 0    Ref: SecQ.RIncome.Q018_
*
.....
      23      98.   DK (Don't Know)
      57      99.   RF (Refused)
10674      Blank.  INAP (Inapplicable); Partial Interview

```

### 8C. Modules for the 2010 Data Collection

There are 10 modules for 2010 HRS. The module data can be found in the file H10V\_R. Topical areas of the modules include:

- Module 1: Possessions and Relocation
- Module 2: Health Literacy
- Module 3: Illness Perceptions and Alzheimer's Disease
- Module 4: Elder Disaster Preparedness and Disability
- Module 5: Personality
- Module 6: Pain
- Module 7: Credit Cards
- Module 8: Financial Sophistication and Investment Decision Making
- Module 9: Proxy Reports of Spouse's Health and Cognition
- Module 10: Altruism

### 8D. Explanation of the Difference between Tracker and 2008 Final Core Data

There are some areas where the Tracker File and the 2008 Final release data are different. Below is a list of these situations.

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. Changes in Data because of Respondent Comments**

The interviewer recorded comments the respondent made during the course of the interview. HRS staff reviewed these comments for selected questions (e.g., other specify, amount and per questions). The original answer was changed if it was determined that the comment changed the substance of the recorded answer. Occasionally additional codes were added to an existing code frame. The text of added codeframes appears in the codebook in sentence case. Double reporting of income or assets in Section Q was corrected wherever possible.

When a change was made as a result of the comment review process, inconsistencies with subsequent variables may result. A limited number of changes for consistency were made to immediately subsequent variables within the section. No consistency changes were made to variables in other sections. If any comment change affected a subsequent branchpoint, the branchpoint was not changed.

### **8F. Changes to 2010 Core, Version 6.0**

The following variables had values changed in the files noted below:

H10A\_H:

- MA076M (CURRENT RESIDENCE STATE - MASKED)
- MA081M (OTHER RESIDENCE STATE - MASKED)

H10A\_R:

- MA068M (REGION FACILITY LOCATED - MASKED)

H10B\_R:

- MB003M (STATE BORN - MASKED)
- MB047M (ST/COUNTRY R LIVED DURING SCHOOL-MASKED)

All files: MVERSION (2010 DATA RELEASE VERSION)

### **8G. Changes to 2010 Core, Version 5.1**

The following variables have been added to the H10E\_H files:

ME169  
ME171M1-M10

The following variables have had their code range expanded from a max of 190 to include "191-196 Miscellaneous":

MB121M1M--MB121M3M  
MB125M1M--MB125M3M  
MC108M1M--MC108M2M  
MM003M1M--MM003M3M  
MM503M1M--MM503M2M  
MM508M1M--MM508M2M  
MM558M1M--MM558M3M  
MM559M1M--MM559M2M  
MS054M1M--MS054M2M

The question text for MN080 has been changed to correctly reflect the breakpoints and procedures used in the MN080-MN082 unfolding series.

## **8H. Changes to 2010 Core, Version 5.0**

### **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 (MLBRTYPE) 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 (MLBELIG) 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 (MLBCOMP) is very similar to the previous version. The 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>

## **8I. 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. New cohort HH's for 2010 were randomly assigned into one of the two groups. Half will receive the Enhanced Face-to-Face interview in 2010. 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 2010, as in 2006 and 2008, 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 (<http://hrsonline.isr.umich.edu/modules/meta/2006/core/qnaire/online/44hr06BioMarker.pdf>). The booklet contains the consent forms, as well as instructions and protocols for all of the measurements.

## **8J. Errata**

For HHID = 525892: Due to a programming error, neither respondent was assigned as a Financial or Family respondent. As a result there will be no HH level data for HHID 525892 after the coverscreen.

For HHID = 130259 and PN = 010: The respondent was not able to do the interview in English or in Spanish and an interpreter was used for several sections of the interview. These sections are noted in the 'assist' variables at the end of each section.

Ask Rules and BLANK/INAP/MISSING data: In the 2010 Final, Version 5.0 codebook the rules governing questions (who gets asked) and the universe specifications

for the Blank, Inap or Missing data category are NOT provided. Please consult the HRS Box-and-Arrow questionnaire.

Three records were removed because they did not meet the sample selection criteria. The three records are: 9203370010, 9203370020 and 9020540010.

MA023 PREVIOUS WAVE SP/P ALIVE has been corrected. If a Respondent reported at MA020 that they had the same spouse and their spouse was alive, they were coded a 3=Yes, assigned from MA020 on the variable MA023.

Corrections were made to three masked variables in the H10F\_R data file including:

MF036M STATE PARENTS LIVE - MASKED

MF052M STATE MOTHER LIVE - MASKED

MF068M STATE FATHER LIVE - MASKED

Corrections were made to one variable: MH153M STATE OF SECOND HOME - MASKED in the H10H\_H data file.

Corrections were made to one variable: MS052M WHICH STATE DID H/W/P DIE - MASKED in the H10S\_R data file.

Several variables in Section N\_R were corrected. A programming error caused the data to be stored in temporary variables as opposed to the permanent or released variables. The data have been recovered and written into the permanent (released) variables. These corrected variables include:

MN049\_1A PRIV PLAN HI- WHO COVERED- 1- 1

MN049\_1B PRIV PLAN HI- WHO COVERED- 1- 2

MN049\_1C PRIV PLAN HI- WHO COVERED- 1- 3

MN049\_1D PRIV PLAN HI- WHO COVERED- 1- 4

MN049\_1E PRIV PLAN HI- WHO COVERED- 1- 5

MN049\_2A PRIV PLAN HI- WHO COVERED- 2- 1

MN049\_2B PRIV PLAN HI- WHO COVERED- 2- 2

MN049\_2C PRIV PLAN HI- WHO COVERED- 2- 3

MN049\_3A PRIV PLAN HI- WHO COVERED- 3- 1

MN049\_3B PRIV PLAN HI- WHO COVERED- 3- 2

MN049\_3C RIV PLAN HI- WHO COVERED- 3- 3

MC226 MOST EVER WEIGH - POUNDS was corrected. The interval defining the "out of range values" was changed from 636-210210 to 1170-210210. The value 636 is now part of the mean calculation. In addition, the width for the Don't Know and Refuse codes was increased from 9998/9999 to 999998 and 999999.

## **8K. Summary of Data Model (DM) Changes during 2010 Production**

During the field period, changes to the instrument need to be made in order to correct errors in the programming or to improve the quality of the data. The following is a summary of these changes. In all of the data files there is a variable called, LVDATE, which tells what version of the data model was used to collect a given interview.

### **DM2 Changes - 3-23-2010**

B061 - Correction to skip over B061 when remarried

D154 - Change wording to match ADAMS (What is the day of the week?)

D194 - change to the QxQ for D194\_Animals to correct a contradiction currently stated between the IWER instruction on the screen and the QxQ. The QxQ for D194 should be changed from: Responses will be recorded by pressing the "Enter" key every time the R says a name/word that fits the category (animals). Do NOT press [Enter] for things said that are not animals, or if the R repeats an animal they already named. To: Press ENTER for EVERY response given, whether or not you think a response is correct. Do, however, try to keep a mental count of INCORRECT responses (which include duplicate responses and responses that do not fit the category "animals.")

V900\_LeaveBehind - changed qtext and QxQ to reflect correct R payment amounts

V000\_ModuleIntro(Mod9) - Corrected skip where not everyone who should have gotten module 9 were getting it. ALL PROXIES, no matter what their module assignment should get module 9 as well as all self interviews who have been assigned to module 9.

### **DM3 Changes - 4-21-2010**

Apart from making a small number of changes to background Blaise variables (adding keep statements, correcting descriptors, etc.) and correcting a few typos in both English and Spanish, here are the notable changes in DM3:

**Section D Number Series** - Changes made to some items in the Section D 201-240 series to avoid any chance of conflict with publishing rights for these tests.

J487 (Amt Future SS Benefits) - Iwers are entering very large amounts here (a million and over). Added consistency checks that are activated by values greater than top ranges:

Monthly > \$5000

Weekly > \$1250

Biweekly > \$2500

Year > \$60,000

V360 Module 8 (Reasons for not investing in stock market) - Added two new codes:

4. Investing in the stock market is too expensive

5. Investing in stock market is too complicated

### **DM4 Changes 5-6-2010**

A028\_RInNHome: We have determined that there will be a few exceptions for which we want to interview a new cohort R who lives in a NH. This will most often be in coupled HHs, where the age eligible R lives at home and the spouse in a nursing home.

As a result, we need to change the hard error on A028 for new cohort Rs to a soft error (or signal) that the IWER is able to suppress.

Also, change the wording in the error message to read as follows:

"This is a new cohort respondent who has been reported as living in a nursing home. We typically do not interview new cohort Rs who are institutionalized.



If you are uncertain about whether this R is eligible to be interviewed, contact your TL before proceeding. If the R is eligible to be interviewed, suppress this message and continue with the interview."

Section D Number Series - Changes made to some items in the Section D 201-240 series to avoid any chance of conflict with publishing rights for these tests.

- D201\_G1 should be 23 26 30 35 \_ - Correct Response: 41
- D204\_A1 should be 6 7 \_ 9 - Correct Response: 8
- D205\_B1 should be 6 \_ 4 3 - Correct Response: 5
- D206\_C1 should be 5 8 11 \_ - Correct Response: 14
- D212 should say 17 16 14 10 \_ - Correct response: 2 or 3
- D213\_M1 should be \_ 20 26 38 62 - Correct Response: 17
- D214\_N1 should be 5 \_ 11 19 35 - Correct Response: 7
- D223\_I2 should be 1 3 9 \_ - Correct Response: 27
- D224\_A2 should be 4 5 6 \_ - Correct Response: 7
- D225\_B2 should be 5 4 3 \_ - Correct Response: 2
- D226\_C2 should be 11 \_ 15 17 - Correct Response: 13
- D227\_D2 should be 7 10 13 \_ - Correct Response: 16
- D231 should say 18 17 \_ 12 8 - Correct response: 15
- D234\_N2 should be \_ 18 24 36 60 - Correct Response: 15

N124\_ - Corrected skip so when R was in a NH previous wave (X008=1) and has been continuously since (N116=996), N124 (When R Moved to NH) should be skipped.

**DM5 Changes - 5-2-2010**

D193\_Animalsanswers - added carriage returns and diamonds to the interviewer instruction.

D213\_ - changed '52' to '62'

**DM6 Changes - 6-8-2010**

A008ASex\_A - assignment to R Grid correction

**DM7 Changes - 7-14-2010**

Added an Interviewer instruction at A020 for New Cohort cases from screener mail survey coming into Main as Married. "IWER: If R is still coupled with the named person, but is partnered, rather than married, enter '4'. Probe "No" responses as needed to make this determination."

**8L. New Questions in HRS 2010**

Table 1. New Questions in HRS 2010

Section	Instrument	Question Number
A - Coverscreen	Core	A212, A213
B - Demographics	Core	No new questions
C - Health	Core	C157-C170; C271-C173
D - Cognition	Core	D130-D139 N070 (brought back from an earlier wave), V435-V441, D200-D235
E - Children and Transfers	Core	E169-E171
F - Parents and Siblings	Core	F228

G - Functional limitations and helpers	Core	No new questions
H - Housing	Core	H203 & H204
I - Physical Measures and Biomarkers	Core	No new questions
J - Employment	Core	J951/J952, W777, W778 and W786 added to replace month list questions; J029, J056, J081, J261, J597 and Q404, J955 added new intro question to the past pension sequence, reinstating J493- J498 which were dropped in 2008.  * Dropping the J434-J470 past pension loop and replacing it with the JW097 former job loop that was added in 2008. This was done to bring the past pension loop into alignment with revisions made last wave to current and former job pension sequences.
K - Last Job	Core	No new questions
L - Job History	Core	No new questions
M - Work Disability	Core	No new questions
N - Health Insurance and Service Utilization	Core	N265-6, N260-1, N067-N070 (brought back from an earlier wave), N263-4, N267-N271
P - Expectations	Core	P166-P170, P014-P015 (brought back from an earlier wave), P175-P178, P179, P180
Q - Income and Assets	Core	Q524-Q531, Q532-added to replace Q401 and Q402 in the new month list question loop
R - Capital Gains	Core	No new questions
S - Widowhood	Core	No new questions
T - Wills and Life Insurance	Core	No new questions
U - Asset Reconciliation	Core	No new questions
V - Pension Doc Request	Core	No new questions
W - Social Security permission, Internet	Core	No new questions
V - Experimental Modules	Core	All questions are new in 2010

Table 2. Revised Questions in HRS 2010

Section	Instrument	Question Number
Household screening interview		X954a, X969a, X969b, X977
Main interview:		
A - Coverscreen	Core	No text revisions
B - Demographics	Core	No text revisions
C - Health	Core	C114, C134, C210

D - Cognition	Core	No text revisions
E - Children and Transfers	Core	E146
F - Parents and Siblings	Core	F029/F045/F061
G - Functional limitations and helpers	Core	No text revisions
H - Housing	Core	H101, H139-H144
I - Physical Measures and Biomarkers	Core	No text revisions
J - Employment	Core	J039, JW082_5 and JW097_5 revised wording in past pension versions of this q,
K - Last Job	Core	No text revisions
L - Job History	Core	No text revisions
M - Work Disability	Core	No text revisions
N - Health Insurance and Service Utilization	Core	N009, N020, N422, N428, N429, N023, N147, N189, N202
P - Expectations	Core	No changes
Q - Income and Assets	Core	Q034, Q165
R - Capital Gains	Core	No text revisions
S - Widowhood	Core	No text revisions
T - Wills and Life Insurance	Exit	No text revisions
U - Asset Reconciliation	Core	U001
V-Pension Doc Request	Core	No text revisions
W - Social Security permission, Internet	Core	W353 (added intro phrase)

## 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

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

- o 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 [hqsquestions@umich.edu](mailto:hqsquestions@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 2010 HRS Core (Final, Version 5.1) 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: [hqsquestions@umich.edu](mailto:hqsquestions@umich.edu)

Postal service:

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

FAX: (734) 647-1186

# Appendix A

## 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<sup>1</sup>. 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

Household records

HHID=012345 ASUBHH=0

Respondent records

HHID=012345 PN=010 ASUBHH=0

HHID=012345 PN=020 ASUBHH=0

#### Time 2

Household records

HHID=012345 CSUBHH=0

Respondent records

HHID=012345 PN=010 CSUBHH=0

HHID=012345 PN=020 CSUBHH=0

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<sup>1</sup>In 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

HHID=056789 PN=010 FSUBHH=2

HHID=056789 PN=011 FSUBHH=5

HHID=056789 PN=020 FSUBHH=1

**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 is assigned 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)

## APPENDIX B

### 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:

Health Conditions - Categorical  
Health Conditions - Alphabetical List  
Occupation Codes  
Industry Codes  
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; subacute keratosis; rosacea; alopecia; psoriasis; burns (also use code 194 if available)

#### Musculoskeletal system and connective tissue

111. Arthritis; rheumatism; bursitis; ankylosing spondylitis; Reiter's syndrome; rheumatica; osteoarthritis
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; fibrositis; 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; myocardinitis, 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; hematoma (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 disease; 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; hematoma (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, pulmonary hypertension; rheumatic fever; occult cerebral vascular malformation; bleeding (location not specified); blockage in lung; Rendu-Osler-Weber disease/syndrome

### **Respiratory system conditions**

131. Allergies; hay fever; 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; Grave's 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; hemochromatosis; 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; silicates 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; spinalcarebellar ataxia; benign/familial 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. Health Conditions - Alphabetical List**

- 151. Abdominal adhesions
- 151. Acid Reflux
- 196. Acquired immunodeficiency syndrome (AIDS)
- 149. Acromegaly
- 193. Acute infectious diseases
- 133. Acute upper respiratory diseases/problems
- 189. ADD (attention deficit disorder)
- 149. Addison's disease
- 119. Adhesions (location not specified)
- 183. Agoraphobia
- 196. AIDS (acquired immunodeficiency syndrome)
- 196. AIDS related complex (ARC)
- 181. Alcoholism
- 131. Allergies
- 103. Alopecia
- 149. Alpha-1 antitrypsin deficiency
- 163. ALS
- 191. Alzheimer's disease
- 114. Amputation of limbs
- 149. Amyloidosis
- 163. Amyotrophic lateral sclerosis
- 124. Anemia
- 121. Aneurysm, heart
- 129. Aneurysm (when not in heart or location not specified)
- 121. Angina
- 101. Angiosarcoma
- 111. Ankylosing spondylitis
- 183. Anxiety
- 124. Aplastic anemia
- 129. APLS Hughes syndrome
- 151. Appendectomy
- 151. Appendicitis
- 169. Arachnoiditis
- 196. ARC (AIDS related complex)
- 121. Arterial blockage
- 121. Arteries, hardening
- 129. Arteries, elasticity
- 121. Arteriosclerosis
- 111. Arthritis
- 139. Asbestos (in lungs)
- 132. Asthma
- 121. Atrial fibrillation
- 165. Attention deficit disorder (ADD)

183. Autism  
 119. Avascular necrosis / osteonecrosis  
 112. Back injuries (also use code 194 if available)  
 112. Back, bad  
 169. Balance problems  
 151. Barrett's esophagus  
 103. Bed sores  
 595. Bedridden  
 189. Behavioral problems  
 169. Bell's palsy  
 152. Benign hepatic hypertrophy  
 102. Benign tumors  
 169. Benign tremors  
 154. Bile duct, blockage of  
 183. Bipolar disorder  
 183. Bipolar depression  
 171. Birth of child  
 139. Black lung  
 169. Blackouts  
 156. Bladder control problems  
 155. Bladder conditions (excluding 156)  
 159. Bleeding (location not specified)  
 159. Bleeding (of the digestive tract)  
 161. Blindness  
 129. Blockage in lung  
 154. Blockage of bile ducts  
 129. Blood clots  
 124. Blood disease  
 124. Blood disorders, specific  
 124. Blood disorders, NFS  
 122. Blood pressure problems (not specified high or low)  
 145. Blood sugar, erratic  
 124. Blood transfusion  
 119. Bone disease  
 124. Bone marrow failure  
 119. Bone spurs (location not specified)  
 119. Bones, broken/damaged (location not specified) from injuries/accidents  
     (also use code 194 if available)  
 151. Bowel incontinence  
 151. Bowel, irritable  
 129. Brain aneurism  
 169. Brain damage, NFS (also use code 194 if available)  
 139. Breathing problems  
 133. Bronchitis  
 103. Bullous pemphigoid  
 103. Burns (also use code 194 if available)  
 111. Bursitis  
 121. Bypass surgery  
 129. Calcification of limbs  
 101. Cancer  
 101. Carcinoma  
 121. Cardiomyopathy  
 119. Carpal tunnel syndrome  
 195. Cataplexy  
 161. Cataracts  
 131. Celiac disease / celiac sprue (gluten intolerance)  
 119. Cellulitis



123. Cerebral hemorrhage  
163. Cerebral palsy  
169. Charcot-Marie-Tooth disease  
171. Childbirth/pregnancy problems  
171. Childbirth, hemorrhaging from  
171. Childbirth, complications from  
171. Childbirth  
144. Cholesterol, high  
119. Chromosome leak into the muscles  
134. Chronic obstructive pulmonary disease (COPD)  
596. Chronic fatigue  
129. Circulation problems  
129. Circulatory system, other specific  
152. Cirrhosis  
129. Claudication  
169. Closed head injury  
129. Clots  
124. Cold agglutinin disease  
193. Colds  
151. Colitis  
151. Colostomy  
169. Coma  
194. Concussions  
194. Conditions/side effects due to surgery  
164. Congenital speech defects  
121. Congestive heart disease  
161. Conjunctivitis  
134. COPD (Chronic obstructive pulmonary disease)  
121. Coronary  
119. Costochondritis  
119. CREST syndrome/limited scleroderma  
151. Crohn's disease  
143. Cystic fibrosis  
155. Cystitis  
116. Cystocele  
102. Cysts  
162. Deafness  
114. Deformation of limbs  
112. Deformation of back, neck, or spine  
191. Dementia  
193. Dengue fever  
192. Dental conditions  
183. Depression (chronic)  
103. Dermatitis  
161. Detached retina  
141. Diabetes  
153. Dialysis  
151. Diarrhea  
112. Disc, slipped  
112. Disc, worn  
151. Diverticulosis  
169. Dizziness  
165. Down syndrome  
113. Drop foot  
182. Drug addiction/abuse  
182. Drug dependence  
151. Dumping syndrome

113. Dupuytren's contracture  
169. Dysautonomia  
165. Dyslexia  
179. Dysmenorrhea  
162. Ear conditions, all  
144. Eating disorders  
103. Eczema  
597. Edema  
129. Elasticity of arteries  
124. Elevated factor VIII  
129. Embolisms  
134. Emphysema  
152. Encephalopathy caused by liver problems  
121. Endocarditis  
149. Endocrinology syndrome  
179. Endometriosis  
596. Energy (low)  
157. Enlarged spleen  
151. Enteritis  
163. Epilepsy  
171. Episiotomy  
193. Epstein-Barr virus  
145. Erratic blood sugar  
159. Esophagus torn, ruptured, bleeding  
161. Eye conditions, NFS  
169. Facial neuralgia  
124. Factor VIII/factor VIII deficiency/elevated factor VIII  
595. Failure to thrive in older adults  
169. Familial tremors  
596. Fatigue (chronic); lack of energy/strength  
159. Feeding tube  
179. Female problems  
193. Fever  
118. Fibromyalgia  
118. Fibromyositis  
118. Fibrositis  
193. Flu  
133. Fungus in chest  
154. Gallbladder, removal  
154. Gallbladder conditions  
154. Gallstones  
129. Gangrene  
151. Gastritis  
151. Gastroenteritis  
151. GERD (gastroesophageal reflux disease)  
129. Giant cell arteritis  
149. Gland problem  
161. Glaucoma  
131. Gluten intolerance  
142. Goiter  
149. Gout  
194. Graft-versus host disease  
142. Grave's disease  
102. Growths  
169. Guillain-Barre syndrome  
192. Gum conditions  
179. Gynecological problems, NFS

103. Hair loss  
121. Hardening of arteries  
142. Hashimoto's disease  
131. Hay fever  
169. Headaches  
162. Hearing, loss of  
121. Heart aneurysm  
121. Heart attack  
121. Heart bypass surgery  
121. Heart condition, NFS  
121. Heart deformities, congenital  
121. Heart failure  
121. Heart murmurs  
121. Heart valve replacement  
121. Heart valve blockage  
121. Heart valve prolapse  
151. Heartburn  
129. Hematoma, if not related to brain (or location not specified)  
123. Hematoma, if related to brain  
124. Hemochromatosis  
124. Hemophilia  
159. Hemorrhage  
129. Hemorrhoids  
152. Hepatitis  
116. Hernia, hiatal  
116. Hiatal hernia  
141. High blood sugar  
122. High blood pressure  
144. High cholesterol  
124. High triglycerides  
113. Hip problem/replacement  
196. HIV (human immunodeficiency virus) positive  
131. Hives  
101. Hodgkin's disease  
149. Hormone problems  
122. HTN (hypertension / high blood pressure)  
196. Human immunodeficiency virus (HIV) positive  
169. Hydrocephalus  
144. Hypercholesterolemia  
149. Hyperpituitarism  
122. Hypertension / high blood pressure (HTN)  
142. Hyperthyroidism  
149. Hypoglycemia  
124. Hypoplastic anemia  
179. Hysterectomy  
139. Idiopathic pulmonary fibrosis  
151. Ileitis  
151. Ileostomy  
196. Immune system disorders  
169. Inclusive body myositis  
193. Infection (location not specified)  
172. Infertility  
595. Infirmity  
193. Influenza  
194. Injuries, accidental  
189. Insomnia  
159. Internal bleeding

159. Internal bleeding (of the digestive tract)  
155. Interstitial cystitis  
151. Intestinal adhesions  
151. Intestinal conditions  
151. Irritable bowel conditions  
144. Iron deficiency  
152. Jaundice  
153. Kidney failure (including dialysis)  
153. Kidney removal  
153. Kidney stones  
113. Knee, bad/problem/replacement  
194. Lacerations  
164. Laryngectomy  
165. Learning disabilities  
113. Leg cramps  
133. Legionnaire's disease  
101. Leukemia  
152. Liver conditions  
119. Loss of calcium  
163. Lou Gehrig's disease  
149. Low blood sugar  
596. Low strength  
134. Lung problems (smoking related)  
129. Lung, blockage in  
119. Lupus  
193. Lyme disease  
129. Lymphoedema  
101. Lymphoma  
161. Macular degeneration  
101. Malignant tumors  
183. Mania  
183. Manic depression  
193. Measles  
169. Medial nerve palsy  
194. Medication, side effects from  
101. Melanoma, removal  
101. Melanoma  
191. Memory loss  
162. Meniere's disease  
169. Meningitis  
179. Menopause  
179. Menstrual periods, painful  
189. Mental health problem, vague  
165. Mental impairment  
189. Mental problems  
165. Mental retardation  
101. Metastasis  
193. Methicillin-resistant staphylococcus aureus (MRSA)  
121. MI (myocardial infarction)  
169. Migraines  
171. Miscarriage  
117. Mitochondrial dystrophy  
117. Mitochondrial myopathy  
121. Mitral valve prolapse  
191. Mixed cognitive disease  
102. Mole removal  
193. Mononucleosis

169. Motor neuron or motoneuron problems  
193. MRSA (methicillin-resistant staphylococcus aureus)  
191. Multi-infarct dementia  
121. Multiple infarctions  
101. Multiple myeloma  
163. Multiple sclerosis  
193. Mumps  
117. Muscular dystrophy  
119. Myalgia  
169. Myasthenia  
169. Myasthenia gravis  
101. Myelodysplastic syndrome  
101. Myeloma / multiple myeloma  
121. Myocarditis  
121. Myocardial infarction (MI)  
121. Myocardial ischemia  
118. Myofascial pain syndrome  
169. Myokymia  
119. Myositis  
195. Narcolepsy  
595. Natural causes  
112. Neck injuries (also use code 194 if available)  
153. Nephritis  
149. Nephrotic syndrome  
119. Nerve, pinched (location not specified)  
189. Nerves, bad  
189. Nervous breakdown  
189. Nervous condition  
119. Neural muscular myositis  
119. Neuritis  
102. Neuroma  
163. Neuropathy  
189. Night wandering  
101. Non-Hodgkin's lymphoma  
996. None  
144. Nutritional problems  
144. Obesity  
129. Occult cerebral vascular malformation  
161. Ocular myasthenia gravis  
595. Old age  
111. Osteoarthritis  
102. Osteomyelitis  
119. Osteopenia  
119. Osteoporosis  
997. Other health condition  
179. Ovarian problems  
144. Overweight  
103. Paget's disease  
149. Pancreatitis  
189. Panic attacks  
115. Paralysis  
169. Paralyzed diaphragm  
183. Paranoia  
149. Parathyroid problems  
163. Parkinson's disease  
103. Pemphigus  
163. Peripheral neuropathy

151. Peritonitis  
 129. Phlebitis  
 119. Pinched nerve (location not specified)  
 149. Pituitary problems  
 113. Plantar fasciitis  
 139. Pleurisy  
 179. PMS (premenstrual syndrome)  
 133. Pneumonia  
 193. Polio (without mention of paralysis)  
 124. Polycythemia vera  
 124. Polycythemia  
 119. Polymyalgia  
 119. Polymyalgia rheumatica  
 119. Polymyositis  
 102. Polyps  
 119. Post-polio syndrome (without mention of paralysis)  
 183. Post-traumatic stress disorder (PTSD)  
 102. Pre-cancer  
 141. Pre-diabetic  
 171. Pregnancy/childbirth problems  
 179. Premenstrual syndrome (PMS)  
 149. Primary adrenal insufficient  
 169. Progressive supranuclear palsy (PSP)  
 173. Prostate conditions  
 173. PSA, high PSA  
 103. Psoriasis  
 169. PSP (progressive supranuclear palsy)  
 183. Psychological conditions  
 183. Psychosis  
 183. PTSD (post-traumatic stress disorder)  
 119. Pulled muscle; location not specified (also use code 194 if available)  
 129. Pulmonary thrombosis  
 129. Pulmonary hypertension  
 129. Pulmonary embolism  
 139. Pulmonary idiopathic fibrosis  
 103. Rash, skin  
 129. Raynaud's disease  
 116. Rectocele  
 169. Reflex sympathetic dystrophy (RSD)  
 151. Reflux disease  
 111. Reiter's Syndrome  
 129. Rendu-Osler-Weber disease/syndrome  
 179. Reproductive organs, removal of (excluding cancer, tumors)  
 139. Respiratory failure, NFS  
 133. Respiratory pulmonary disease  
 133. Respiratory diseases, acute upper  
 169. Restless legs syndrome (RLS)  
 597. Retaining water/retaining fluids  
 161. Retina, torn  
 161. Retina, detached  
 171. RH factor  
 111. Rheumatism  
 111. Rheumatica  
 121. Rheumatic heart disease  
 129. Rheumatic fever  
 169. RLS (restless legs syndrome)  
 103. Rosacea

113. Rotator cuff problems  
169. RSD (reflex sympathetic dystrophy)  
193. Rubella  
139. Sarcoidosis  
183. Schizophrenia  
119. Sciatica/sciatic nerve problem  
119. Scleroderma  
112. Scoliosis  
103. Seborrheic keratosis  
163. Seizures  
191. Senility  
193. Sepsis  
193. Septic shock  
183. Severe psychological conditions  
169. Shaky hands  
169. Shingles  
113. Shoulder problems  
124. Sick cell trait  
124. Sick cell anemia  
194. Side effects from medication  
194. Side effects/conditions due to surgery  
151. Silicates disease  
131. Sinus headaches  
131. Sinus problems  
131. Sinusitis  
169. Sjogren's syndrome  
103. Skin conditions  
103. Skin ulcers  
119. Skull bone injuries (also use code 194 if available)  
194. Skull fracture  
195. Sleep apnea  
134. Smoking related lung problems  
169. Spasmodic torticollis  
164. Speech conditions, all  
164. Speech impediment  
112. Spina bifida  
169. Spinal cerebellar ataxia  
169. Spinal cord damage, from injuries/accident (also use code 194 if available)  
112. Spinal stenosis  
157. Spleen conditions  
157. Spleen, enlarged  
119. Sprain; location not specified (also use code 194 if available)  
112. Sprained back/neck (also use code 194 if available)  
113. Sprained limb (also use code 194 if available)  
131. Sprue / celiac sprue (gluten intolerance)  
193. Staph infection  
172. Sterilization  
608. Stillbirth  
151. Stomach conditions  
151. Stomach pains  
151. Stomach reflux  
151. Stomach, removal  
119. Strain; location not specified (also use code 194 if available)  
596. Strength (low)  
193. Strep throat  
189. Stress/stress related problems  
123. Stroke

164. Stuttering  
102. Subdural hygroma  
103. Seborrhic keratosis  
145. Sugar problems; NFS  
159. Swallowing difficulty  
597. Swelling, (location not specified)  
119. Temporomandibular joint syndrome (TMJ)  
119. Tendon damage; location not specified (also use code 194 if available)  
119. Tendonitis (location not specified)  
113. Tennis elbow  
169. Thoracic outlet syndrome  
124. Thrombocytopenia  
142. Thyroid problems  
123. TIA (transient ischemic attack)  
162. Tinnitus  
119. TMJ (temporomandibular joint syndrome)  
131. Tonsillitis  
124. Toxemia  
193. Toxic shock  
124. Toxoplasmosis  
123. Transient ischemic attack (TIA)  
119. Trigeminal neuralgia  
124. Triglycerides / high triglycerides  
172. Tubal ligation  
139. Tuberculosis  
172. Tubes tied  
101. Tumor, malignant (or cancerous)  
102. Tumor, NA whether malignant or benign  
102. Tumors, benign  
151. Ulcerative colitis  
151. Ulcers (not further specified)  
103. Ulcers, skin  
151. Ulcers, stomach (peptic or duodenal)  
122. Uncontrollable blood pressure  
169. Upper motor neuron/motoneuron problems  
155. Urinary infections  
156. Urinary incontinence/loss/leakage  
155. Urosepsis  
161. Uveitis  
129. Varicose veins  
129. Vascular disease  
119. Vascular necrosis  
172. Vasectomy  
139. Ventilatory insufficiency  
169. Vertigo  
162. Vestibular disorder  
193. Virus, NFS  
161. Vision problems, NFS  
144. Vitamin deficiency  
102. Warts  
144. Weight problems



## **C. 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
- 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. Dietitians 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
- 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
- 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
- 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
- 794. Rolling Machine Setters, Operators, and Tenders, metal and Plastic
- 795. Cutting, Punching, and Press 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
- 815. Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
- 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
- 842. Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders

- 843. Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
- 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
- 853. Sawing Machine Setters, Operators, and Tenders, 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
- 893. Paper Goods Machine Setters, Operators, and Tenders
- 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*

## **D. 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
- 048. Not specified type of mining
- 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**

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

**RETAIL TRADE**

- 467. Automobile dealers
- 468. Other motor vehicle dealers
- 469. Auto parts, accessories, and tire stores
- 477. Furniture and home furnishings stores
- 478. Household appliance stores
- 479. Radio, TV, and computer stores
- 487. Building material and supplies dealers
- 488. Hardware stores
- 489. Lawn and garden equipment and supplies stores
- 497. Grocery stores
- 498. Specialty food stores
- 499. Beer, wine, and liquor stores
- 507. Pharmacies and drug stores
- 508. Health and personal care, except drug, stores
- 509. Gasoline stations
- 517. Clothing and accessories, except shoe, stores
- 518. Shoe stores
- 519. Jewelry, luggage, and leather goods stores
- 527. Sporting goods, camera, and hobby and toy stores
- 528. Sewing, needlework and piece goods stores
- 529. Music stores
- 537. Book stores and news dealers
- 538. Department stores
- 539. Miscellaneous general merchandise stores
- 547. Retail florists
- 548. Office supplies and stationary stores
- 549. Used merchandise stores
- 557. Gift, novelty, and souvenir shops
- 558. Miscellaneous retail stores
- 559. Electronic shopping and mail-order houses

- 567. Vending machine operators
- 568. Fuel dealers
- 569. Other direct selling establishments
- 579. Not specified retail trade

**TRANSPORTATION AND WAREHOUSING**

- 607. Air transportation
- 608. Rail transportation
- 609. Water transportation
- 617. Truck transportation
- 618. Bus service and urban transit
- 619. Taxi and limousine service
- 627. Pipeline transportation
- 628. Scenic and sightseeing transportation
- 629. Services incidental to transportation
- 637. Postal Service
- 638. Courier and messengers
- 639. Warehousing and storage

**INFORMATION**

- 647. Newspaper publishers
- 648. Publishing except newspapers and software
- 649. Software publishing
- 657. Motion pictures and video industries
- 659. Sound recording industries
- 667. Radio and television broadcasting and cable
- 668. Wired telecommunications carriers
- 669. Other telecommunication services
- 677. Libraries and archives
- 678. Other information services
- 679. Data processing services

**FINANCE AND INSURANCE**

- 687. Banking and related activities
- 688. Savings institutions, including credit unions
- 689. Non-depository credit and related activities
- 697. Securities, commodities, funds, trusts, and other financial investments
- 698. Insurance carriers and related activities

**REAL ESTATE AND RENTAL AND LEASING**

- 707. Real estate
- 708. Automotive equipment rental and leasing
- 717. Video tape and disk rental
- 718. Other consumer goods rental
- 719. Commercial, industrial, and other intangible assets rental and leasing

**PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES**

- 727. Legal services
- 728. Accounting, tax preparation, bookkeeping and payroll services
- 729. Architectural, engineering, and related services
- 737. Specialized design services
- 738. Computer systems design and related services
- 739. Management, scientific and technical consulting services
- 746. Scientific research and development services
- 747. Advertising and related services
- 748. Veterinary services
- 749. 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 FOOR 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

## **E. State and Country Codes**

### **E1. 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)

**E2. 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

**E3. OTHER COUNTRIES**

- 97. Other Country
  
- 98. DK
- 99. NA