

HEALTH AND RETIREMENT STUDY
2008 Exit
Final, Version 1.0
November 2010

Data Description and Usage

TABLE OF CONTENTS

TABLE OF CONTENTS	III
DATA DESCRIPTION AND USAGE	1
1. OVERVIEW	1
1A. THE SAMPLE INTERVIEWED IN 2008	1
1B. 2008 QUESTIONNAIRE SECTIONS	2
1C. LEVELS OF FILES	2
1c1. Respondent Level Files	2
1c2. Household Member and Child Level File	2
1c3. Helper Level File	3
1c4. Transfer-To-Child Level File	3
1c5. Transfer-From-Child Level File	3
2. FILE NAMING CONVENTIONS	3
3. DATA FILES	4
4. IDENTIFICATION VARIABLES	4
4A. PRIMARY IDENTIFICATION VARIABLES	4
4a1. HHID - Household Identification Number	4
4a2. VSUBHH - 2008 Sub-Household Identifier	5
4a3. PN - Person Number	5
4a4. OPN - Other Person Number	5
4B. PRIMARY IDENTIFICATION VARIABLES FOR DATASETS AT EACH OF THE FIVE LEVELS	5
4C. SECONDARY IDENTIFICATION VARIABLES	5
5. DISTRIBUTION FILES AND DIRECTORY STRUCTURE	6
5A. DISTRIBUTION FILES	6
5B. DIRECTORY STRUCTURE	6
6. PROGRAM STATEMENTS	7
6A. USING THE FILES WITH SAS	7
6B. USING THE FILES WITH SPSS	7
6C. USING THE FILES WITH STATA	7
7. DOCUMENTATION	8
7A. CODEBOOK	8
7a1. Variable Names	8
7B. BOX AND ARROW QUESTIONNAIRE	10
7C. MASTER CODES	10
7D. ONLINE QUESTION CONCORDANCE	10
7E. CROSS-WAVE TRACKER FILE	10
7F. OVERVIEW OF HRS PUBLIC DATA FILES FOR CROSS-SECTIONAL AND LONGITUDINAL ANALYSIS	11
8. ADDITIONAL NOTES	11
8A. CHANGES IN DATA BECAUSE OF RESPONDENT COMMENTS	11
8B. UNFOLDING BRACKET VARIABLES AND IMPUTATIONS	11
8C. SUMMARY OF DATA MODEL (DM) CHANGES DURING 2008 PRODUCTION	13
8D. PROXY RESPONDENTS WITHOUT BASELINE INTERVIEW	13
9. OBTAINING THE DATA	13

9A. REGISTRATION AND DOWNLOADING THE DATA	13
9B. CONDITIONS OF USE	14
9C. PUBLICATIONS BASED ON DATA	14
10. IF YOU NEED TO KNOW MORE	14
10A. HRS INTERNET SITE.....	14
10B. CONTACT INFORMATION.....	15
APPENDIX A	17
A. EXAMPLES OF SUB-HOUSEHOLD AND RESPONDENT PERSON NUMBER AND OTHER PERSON NUMBER ASSIGNMENTS	17
A1. MARRIED COUPLE STAYS MARRIED.....	17
A2. COUPLE DIVORCES.....	18
A3. ONE OR BOTH RESPONDENTS DIE.....	18
A4. SINGLE RESPONDENT MARRIES.....	19
A5. COUPLE DIVORCES, ONE RESPONDENT REMARRIES AND DIVORCES.....	19
A6. COUPLE DIVORCES AND MARRIES AGAIN.....	20
A7. MARRIED COUPLE WITH CHILDREN AND SIBLINGS.....	21
A8. COUPLE WITH CHILDREN AND SIBLINGS DIVORCES.....	21
A9. COUPLE DIVORCES, ONE RESPONDENT REMARRIES, BOTH SPLIT-OFF HOUSEHOLDS HAVE NEW MEMBERS.....	22
APPENDIX B	25
B. MASTER CODES	25
B1. HEALTH CONDITIONS - CATEGORICAL	25
B2. OCCUPATION CODES.....	29
B3. STATE AND COUNTRY CODES	41
B3a. STATES	41
B3b. OTHER U.S.	42
B3c. OTHER COUNTRIES	42

Data Description and Usage

1. Overview

The 2008 HRS Exit (Final, Version 1.0) data release consists of data obtained as part of the Health and Retirement Study (HRS), a national longitudinal study of the economic, health, marital, and family status, as well as public and private support systems, of older Americans. The National Institute on Aging provided funding (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.

The current release of the 2008 Exit (Final Version 1.0) has 1,330 respondents and 1,570 variables. An Exit Interview is attempted with a "proxy informant" for panel members who have died. To the greatest extent possible, proxy informants are knowledgeable about the health, family, and financial situation of the deceased (often the proxy is a widow, widower, or some other family member). The content of the 2008 Exit interview is similar to the 2008 Core (or living) interview. As such, the 2008 Exit data are amenable to answering researchers' questions concerning medical care, expenditures, how assets are distributed following death, and family decision-making during the latter part of life.

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

1a. The Sample Interviewed in 2008

The data collection period for the 2008 interview was February 2008 through February 2009. The HRS sample is comprised of five sub-samples.

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

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

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

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

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

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

1b. 2008 Questionnaire Sections

The content of the 2008 Exit data collection instrument is roughly equivalent to the content of the HRS 2006 Exit instrument.

2008 Section	Content
PR	Preload
A	Coverscreen
B	Demographics
C	Physical Health
D	Cognition
E	Family Structure and Transfers
G	Functional Limitations and Helpers
J	Employment
N	Health Services and Insurance
T	Wills and Life Insurance
IO	Interviewer Observations
Y	Time Calculations

1c. Levels of Files

In the 2008 Exit Questionnaire, most questions were asked of all respondents. In addition to the familiar respondent-level files, the 2008 HRS Exit (Final, Version 1.0), contains files at four other levels: household-member-and-child, helper, transfer-to-child, and transfer-from-child.

1c1. Respondent Level Files

Respondent-level files contain questions that were asked of all proxy respondents about the deceased respondent. The files contain one record for each respondent who provided a 2008 Exit interview via proxy.

1c2. Household Member and Child Level File

This file contains characteristics about household members, children, and siblings. The information comes from the X08PR_MC file, and contains one record for each household member, child, or sibling.

1c3. Helper Level File

This file contains information provided by each exit proxy about the deceased respondent's helpers. A helper may be a person or organization that was reported by the proxy as providing help with ADLs or IADLs in Section G of the 2008 Exit questionnaire. The helper file X08G_HP contains one record for each helper.

1c4. Transfer-To-Child Level File

This file contains information provided by the exit proxy about transfers of money to children or grandchildren. The file X08E_TC contains one record for each transfer to a child or grandchild. Transfers to children are discussed in Section E - Family Structure and Transfers.

1c5. Transfer-From-Child Level File

This file contains information provided by the exit proxy about transfers of money from children or grandchildren. The file X08E_FC contains one record for each transfer from a child or grandchild. Transfers from children are discussed in Section E of the 2008 interview.

2. File Naming Conventions

Files are named beginning with "X08" for HRS 2008 Exit, followed by a letter (or two) designating the questionnaire section. A separator, "_", and then one or two letters designating the level will follow the section letter designator.

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

For example, the file X08A_R includes variables from section A (coverscreen) at the respondent level. And file X08E_TC includes variables from section E at the monetary transfer-to-child level.

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

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

One of each of these file types is provided for each of the 16 data files for the 2008 HRS Exit (Final, Version 1.0) data release. For example,

- X08A_R.DA contains respondent data from section A,
- X08A_R.SAS contains corresponding SAS program statements,
- X08A_R.SPS contains corresponding SPSS program statements,
- X08A_R.DO contains corresponding STATA DO statements,
- X08A_R.DCT contains corresponding STATA dictionary statements, and
- X08A_R.TXT contains the ASCII codebook.

3. Data Files

The 2008 HRS Exit (Final, Version 1.0) data are distributed in 16 data files. The files are listed below along with the number of cases (N), number of variables (NV), and the primary identifiers (IDS). The records in the data files are sorted in order by these primary identifiers.

The 2008 HRS Exit data are provided in ASCII format, with fixed-length records. Use associated SAS, SPSS, or STATA program statements to read the data into the analysis package of your choice.

Respondent level files: PRIMARY IDS = HHID PN

X08PR_R	N=1,330	NV=97
X08A_R	N=1,330	NV=99
X08B_R	N=1,330	NV=49
X08C_R	N=1,330	NV=68
X08D_R	N=1,330	NV=61
X08E_R	N=1,330	NV=36
X08G_R	N=1,330	NV=107
X08J_R	N=1,330	NV=183
X08N_R	N=1,330	NV=243
X08T_R	N=1,330	NV=437
X08IO_R	N=1,330	NV=93
X08Y_R	N=1,330	NV=17

Household-Member-and-Child level file: PRIMARY IDS = HHID VSUBHH OPN

X06PR_MC	N=7,576	NV=21
----------	---------	-------

Transfer-to-child level file: PRIMARY IDS = HHID VSUBHH OPN

X08E_TC	N=413	NV=16
---------	-------	-------

Transfer-from-child level file: PRIMARY IDS = HHID VSUBHH OPN

X08E_FC	N=206	NV=16
---------	-------	-------

Helper level file: PRIMARY IDS = HHID PN OPN

X08G_HP	N=2,741	NV=27
---------	---------	-------

4. Identification Variables

Identification variables for HRS 2008 Final Exit (Version 1.0) are stored in character format.

4a. Primary Identification Variables

Several variables, HHID, VSUBHH, PN, and OPN are used in various combinations to uniquely identify the five different levels that comprise this data release.

4a1. HHID - Household Identification Number

HHID is stable across waves of data collection, and uniquely identifies the original household and any households derived from that household in subsequent waves of data collection. HHID has six digits.

4a2. VSUBHH – 2008 Sub-Household Identifier

In combination with HHID, VSUBHH uniquely identifies a household at the time of the 2008 data collection. Sub-household identifiers can be different at each wave due to dissolution or reconstitution of a household (e.g. divorce, separation, marriage, or death). VSUBHH has one digit. In the 2008 Exit data, VSUBHH will be either 3 or 4. 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. 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 2008 data collection HHID, VSUBHH, and OPN uniquely identify another person in the household member and child files; HHID, PN, and OPN uniquely identify another person in the helper files. OPN has three digits.

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

Two identifiers uniquely identify records in the

- o Respondent level datasets:

- 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
- 2) PN PERSON NUMBER

Three identifiers uniquely identify records in the

- o Helper level datasets:

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

Three identifiers uniquely identify records in the

- o Household-member-and-child level dataset:

- 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
- 2) VSUBHH 2008 SUB-HOUSEHOLD IDENTIFICATION NUMBER
- 3) OPN OTHER PERSON NUMBER

Three identifiers uniquely identify records in the

- o Transfer-to-child level and
- o Transfer-from-child level datasets:

- 1) HHID HOUSEHOLD IDENTIFICATION NUMBER
- 2) VSUBHH 2008 SUB-HOUSEHOLD IDENTIFICATION NUMBER
- 3) OPN OTHER PERSON NUMBER

4c. Secondary Identification Variables

In addition to the primary identification variables that uniquely identify records in a dataset, secondary identification variables that allow links to other datasets are provided. The secondary identification variables can be used to link the 2008 Exit data with Core data from previous waves, or to link a deceased respondent with data from their surviving spouse or partner.

Secondary Identification Variables for

- o Respondent level and
- o Helper level datasets:

- 1) KSUBHH 2006 SUB-HOUSEHOLD IDENTIFICATION NUMBER
- 2) VPN_SP 2008 SPOUSE/PARTNER PERSON NUMBER

Secondary Identification Variables for

- o Household-member-and-child level,
- o Transfer-from-child level and
- o Transfer-to-child level datasets:

- 1) KSUBHH 2006 SUB-HOUSEHOLD IDENTIFICATION NUMBER

5. Distribution Files and Directory Structure

5a. Distribution Files

The files are packaged for download from our Web site in two different ways - as one large .zip file that contains six smaller .zip files and one .pdf file, or the seven smaller files available individually for separate download. The combined file is x08exit.zip.

The individual files for separate download are:

Data file

x08da.zip containing data files.

Program statement files

X08sas.zip containing SAS data descriptors.

X08sps.zip containing SPSS data descriptors.

X08sta.zip containing STATA data descriptors.

Documentation files

X08cb.zip containing the codebook.

H08qn.zip containing the questionnaire.

X08dd.pdf - this document.

5b. Directory Structure

While a particular setup is not required for using the 2008 HRS Final Exit files, if the following directory structure is used, then no changes to the path name in the data descriptor files are necessary. If you use a different structure, change the directory references in the distribution files.

Directory	Contents
c:\x2008\	Files downloaded from Web site
c:\x2008\codebook	Unzipped files from x08cb.zip
c:\x2008\data	Unzipped files from x08da.zip
c:\x2008\qnaire	Unzipped files from h08qn.zip
c:\x2008\sas	Unzipped files from x08sas.zip
c:\x2008\spss	Unzipped files from x08sps.zip
c:\x2008\stata	Unzipped files from x08sta.zip

Decompress the selected .zip files into the appropriate subdirectories. You will need about 4.0 MB of free space on your storage device to store the 16 .DA files.

6. Program Statements

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

The statement files are named beginning with the same prefix as the corresponding data file. For example, SAS statements in the file X08A_R.SAS go with the X08A_R.DA data file.

6a. Using the Files with SAS

In order to create a SAS system file for a particular dataset, two file types must be present:

- .SAS program statement files 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:\x2008\sas" and the data file is located in "c:\x2008\data", you can run the file as is. A SAS system file (*.SD2 or *.SAS7BDAT) will be saved to the "c:\x2008\sas" directory.

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

6b. Using the Files with SPSS

In order to create an SPSS system file for a particular dataset, two file types must be present:

- .SPS program statement files 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:\x2008\spss" and the data file is located in "c:\x2008\data", you can run the file as is. An SPSS system file (*.SAV) will be saved to the "c:\x2008\spss" directory.

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

6c. Using the Files with STATA

In order to use STATA with a particular dataset, the following three file types must be present:

- .DCT files,
- .DO files 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 are used to read in the data. Load the .DO file into STATA and then submit it.

If the *.DO and *.DCT files are located in "c:\x2008\stata" and the data file is located in "c:\x2008\data", you can run the .DO file as is.

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

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

7. Documentation

There are several types of documentation available for use with the 2008 HRS Exit (Final, Version 1.0) data release. These include a codebook, the 2008 box-and-arrow questionnaire, online [question concordance](#) and this data description, which includes a list of master codes.

7a. Codebook

The HRS 2008 Exit Codebook is provided as a series of 16 individual ASCII text files, as well as a single file containing all sections. There is a codebook file corresponding to each data file, and a complete codebook that includes all sections. Each variable has its own codebook entry. The format of the codebook is, for the most part, consistent with all previous releases.

7a1. Variable Names

Variable names begin with a letter designating the wave of data collection (V for 2008 Exit), followed by the section letter, and numbers after the section letter. For example, VC030 where V=2008 Exit, C=Section C (physical health), and 030 is the variable number. Variables from the preload section contain either "X" or "Z" as section prefix letters. The "X" section prefix indicates a variable that is updated by data collected in later sections of the questionnaire, whereas the "Z" section prefix indicates preloaded data that were not changed by subsequent answers to questions. For example, VZ007 (PREV WAVE R FIN/FAM TYPE) signifies the Family/Financial Type assigned from the previous wave's interview, whereas VX007 (RESP FAM/FIN TYPE - UPDATED) indicates the current wave Family/Financial Type, which was updated based on responses in the 2008 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, VC021M1 through VC021M6 are 2008 variables from section C with one through six mentions.

Simple loop variables (without a multiple mention) have an underscore (_) in their name and a suffix that designates the loop, e.g., VN025_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 of this type take the form: (wave prefix) + (section letter) + ("W") + (variable number) + (letter designating loop iteration) + (mention number). For example, VJW097A1 is a 2008 variable from section J, 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, VJW001A is variable number 001 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 are retained.

7a1b. Masked Variables

To protect the confidentiality of the information that respondents provide, a number of variables have been masked, or are simply not included in the 2008 Exit Final (Version 1.0) public dataset. Names, addresses, days of birth, information on geographical relocation, and similar variables are not included in publicly released files. Some of these variables may be made available to analysts as restricted data. See our Web site for details.

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

The names of variables that were masked for confidentiality end in the letter "M"; for example, variable VX026M (1ST ADDRESS STATE - MASKED). In the 2008 Exit Final Release, the following variables are masked:

<u>Variable</u>	<u>Label</u>
VX026M	1ST ADDRESS STATE - MASKED
VX030M	2ND ADDRESS STATE - MASKED
VZ031M	PREV WAVE 2ND RESIDENCE STATE - MASKED
VA126M	R DIED- STATE - MASKED
VA129M	R DEATH CERTIFICATE- STATE - MASKED
VA133M1M	CAUSE OF DEATH-MASKED- 1
VA133M2M	CAUSE OF DEATH-MASKED- 2
VA068M	REGION FACILITY LOCATED - MASKED
VA076M	CURRENT RESIDENCE STATE - MASKED
VA081M	OTHER RESIDENCE STATE - MASKED
VB024M	FATHERS USUAL OCC-MASKED
VB029M1M	TYPE HISPANIC - 1-MASKED
VB029M2M	TYPE HISPANIC - 2-MASKED
VB089M1M	R RACE -1- MASKED
VB089M2M	R RACE -2- MASKED
VB091M	R RACE - PRIMARY- MASKED
VB047M	ST/COUNTRY LIVED DURING SCHOOL - MASKED
VC108M1M	OTHER MEDICAL CONDITIONS-SP-MASKED-1
VC108M2M	OTHER MEDICAL CONDITIONS-SP-MASKED-2
VC209M1M	DIAGNOSIS OF MEMORY PROBLEM-MASKED-1
VC209M2M	DIAGNOSIS OF MEMORY PROBLEM-MASKED-2
VN314M1M	WHY ADMITTED - FINAL- 1- MASKED
VN314M2M	WHY ADMITTED - FINAL- 2- MASKED
VT158M	WHICH STATE WILL PROBATED - MASKED

7a1c. Rules - Conditions

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

In addition, there can be inconsistencies when a Respondent decides to go back and change an answer that controls flow. We strongly recommend that you also check the Box and Arrow questionnaire whenever you have a question about flow and whether a respondent should be in a particular sequence.

7b. Box and Arrow Questionnaire

The research community has referred to the type of documentation that describes the questions asked in the interview as a "questionnaire". Since the 2008 HRS Exit data were collected using a CAI program, a traditional hard-copy questionnaire was not produced as part of the data collection phase. However, we have provided a version of the traditional box-and-arrow questionnaire to help document the asking sequence of the questions.

7c. Master Codes

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

7d. Online Question Concordance

This documentation resource lets researchers scan the metadata of publicly released HRS datasets in order to find information that may be of use in analysis efforts. It covers the biennial HRS datasets collected during the period 1992 through 2008. It contains one record for each of the questions represented by one or more variables in a specified public file. Concordance records are linked over time only in that they have keywords in common, or appear in similar sections in different years. It is located here:

<http://hrsonline.isr.umich.edu/concord/index.html>.

7e. Cross-Wave Tracker File

The HRS tracker file is created to facilitate the use of HRS data within and across waves. The file contains one record for every person who was ever eligible to be interviewed in any wave. Each record contains basic demographic information, interview status, and if, when and how an interview was conducted in each wave. Also included are cross-sectional weights and information on inter-respondent relationships, which are vital to almost all substantive analyses of the HRS data. The current version of the tracker file (Tracker 2008, Version 1.0) covers all types of interviews (core, exit, and post-exit) through HRS 2008. Please see the [Cross-wave Tracker File Data Description](#) for a more detailed description.

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

This is a thorough document that provides a description of structure and content for all HRS public data files and a detailed explanation for handling the longitudinal nature of the survey. It is located here:

<http://hrsonline.isr.umich.edu/sitedocs/dmgt/OverviewofHRSPublicData.pdf>

8. Additional Notes

Found here are miscellaneous additional notes regarding HRS 2008 Exit Final Data Release (Version 1.0). If we become aware of additional issues, they will be posted on our Web site in the [Data Alerts](#) section.

8a. 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.

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.

8b. Unfolding Bracket Variables and Imputations

Typically, a series of unfolding bracket questions follow a lead-in question asking for an amount. If a valid amount was not given, a series of "unfolding" questions were asked. The manner in which the unfolding questions were programmed using Blaise for the 2002 through 2008 surveys is different from the way it was programmed in SurveyCraft for the 1993 through 2000 surveys. This change was transparent to the respondents, since exactly the same questions were asked with the new software; but it did have an implication for the data that were stored and subsequently released.

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

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

For other sequences, those in which respondents were randomly assigned to one of three "entry" points for the first unfolding question, the analyst will also need to take into account a fourth variable (located in the preload sections) that specifies the entry point for each respondent. The following example shows the preload variable (VX511) and the unfolding sequence that uses the random entry point from VX511.

Preload Variable from the data file X08pr_r:

```

-----
VX511          PREASSIGNED RANDOM VALUE -11
  Section: PR    Level: Respondent      Type: Numeric    Width: 1    Decimals: 0
  Ref: RTab[1].X511_1Random1_3

```

PREASSIGNED RANDOM VALUE

```

.....
          431          1.  RANDOM ASSIGNMENT 1
          427          2.  RANDOM ASSIGNMENT 2
          472          3.  RANDOM ASSIGNMENT 3
=====

```

Unfolding Series from section E that uses VX511 to assign respondents an entry point:

```

VE083          TRANSFER TO CHILD - MIN
  Section: E     Level: To Child        Type: Numeric    Width: 7    Decimals: 0
  Ref: SecE.KidTransMain.TransToKid[1].E083_

```

E083-E085 Unfolding Sequence

Question text: Did it amount to a total of less than \$____ , more than \$____ , or what?

PROCEDURES: 1Up1Down, 2Up, 2Down

BREAKPOINTS: \$1,000, \$5,000, \$20,000

RANDOM ENTRY POINT ASSIGNMENT [1 (\$5,000)] or [2 (\$1,000)]
or [{NOT 1 and NOT 2} (\$20,000)] AT X511

```

.....
          40          0.  Value of Breakpoint
           3         1000. Value of Breakpoint
          24         1001. Value of Breakpoint
           5         5000. Value of Breakpoint
          16         5001. Value of Breakpoint
           3        20000. Value of Breakpoint
           4        20001. Value of Breakpoint
          318        Blank. INAP (Inapplicable); Partial Interview; Data Missing
=====

```

```

VE084          TRANSFER TO CHILD - MAX
  Section: E     Level: To Child        Type: Numeric    Width: 10   Decimals: 0
  Ref: SecE.KidTransMain.TransToKid[1].E084_

```

*

```

.....
          16          999. Value of Breakpoint
           3         1000. Value of Breakpoint

```

24	4999.	Value of Breakpoint
5	5000.	Value of Breakpoint
17	19999.	Value of Breakpoint
3	20000.	Value of Breakpoint
27	99999996.	Greater than Maximum Breakpoint
318	Blank.	INAP (Inapplicable); Partial Interview; Data Missing

VE085 TRANSFER TO CHILD - RESULT
 Section: E Level: To Child Type: Numeric Width: 2 Decimals: 0
 Ref: SecE.KidTransMain.TransToKid[1].E085_

*

13	98.	DK (Don't Know)
12	99.	RF (Refused)
388	Blank.	INAP (Inapplicable); Partial Interview; Data Missing

8c. Summary of Data Model (DM) Changes During 2008 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. A summary variable (VVDATE) indicating which version of the data model was used to interview a household appears on all of the data files, with the exception of Interviewer Observations. Section IO is a stand alone data collection instrument that is not integrated with the main data collection program. The different data model versions resulted in modest changes to the data correction instrument, and are summarized below:

Changes Incorporated in Data Model Version 2 for Exit Interviews:

Section J:

VJW008, VJW013, VJW018, VJW019, VJW056: Too many Respondents were being skipped out of these questions. Logic was changed to correct this.

8d. Proxy Respondents Without Baseline Interview

There were three respondents in the HRS 2008 Exit (Early, Version 1.0) data who did not give a baseline interview. Exit interviews are not conducted for respondents who have not provided a baseline interview (either a self interview or by proxy). Consequently, these lines have been dropped from the 2008 Exit Final Release. The cases are:

HHID	PN
082551	011
207787	020
212138	011

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 Statement](#) at the Public File Download Area of the HRS Web site.

9c. Publications Based on Data

As part of the data registration process, you agree to include specified citations, and to inform HRS of any papers, publications, or presentations based on HRS data. Please send a copy of any publications you produce based on HRS data, with a bibliographical reference, if appropriate, to the address below.

Health and Retirement Study
Attn: Papers and Publications
The Institute for Social Research, Room 3050
P.O. Box 1248
Ann Arbor, MI (USA) 48106-1248

Alternately, you may contact us by e-mail at hrequest@isr.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 2008 HRS Exit (Final, Version 1.0) data. If you have questions or concerns that are not adequately covered here or on our Web site, or if you have any comments, please contact us. We will do our best to provide answers.

10a. HRS Internet Site

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

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

10b. Contact Information

If you need to contact us, you may do so by one of the methods listed below.

Internet: Help Desk at our Web site

E-mail: hrequest@isr.umich.edu

Postal service:

Health and Retirement Study
The Institute for Social Research, Room 3050
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 reunited¹.

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

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

Both Respondents Die in same wave:

Household records

HHID=034567 CSUBHH=3 (in exit interview, first respondent in household to die assigned 3)

HHID=034567 CSUBHH=4 (in exit interview, second respondent in household to die assigned 4)

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:

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

B1. Health Conditions - Categorical

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

Cancers and tumors; skin conditions

- 101. Cancer--any site or type; leukemia; Hodgkin's disease; melanomas; non-Hodgkin's lymphoma; tumors if specified as malignant; lymphoma; metastasis angiosarcoma; carcinoma; myeloma/multiple myeloma; myelodysplastic syndrome
- 102. Tumors, cysts or growths (except 101); polyps; osteomyelitis; pre-cancer; neuroma; benign tumors; mole removal; warts; subdural hygroma
- 103. Skin conditions--any mention except cancer (101) or tumor (102); dermatitis; eczema; rashes; Paget's disease; skin ulcers; bedsores; bullous pemphigoid; hair loss; pemphigus; subreic karatosis; rosacea; alopecia; psoriasis; burns (also use code 194 if available)

Musculoskeletal system and connective tissue

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

Respiratory system conditions

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

Endocrine, metabolic and nutritional conditions

- 141. Diabetes; pre-diabetic; high blood sugar
- 142. Thyroid trouble; goiter; hyperthyroidism; graves disease; Hashimoto's disease
- 143. Cystic fibrosis

- 144. Nutritional problems; weight problems; eating disorders; high cholesterol; hypercholesterolemia; obesity; iron deficiency; overweight; vitamin deficiency
- 145. Sugar problems, NFS; erratic blood sugar
- 149. Other endocrine/metabolic problems; pancreatitis; pituitary problems; gland problems; Addison's disease; gout, nephrotic syndrome; primary adrenal insufficient; parathyroid problems; endocrinology syndrome; amyloidosis; haemochromatosis; hypoglycemia; low blood sugar; loss of calcium; alpha-1 antitrypsin deficiency; acromegaly; hormone problems; hyperpituitarism; hypoglycemia

Digestive system (stomach, liver, gallbladder, kidney, bladder)

- 151. Stomach and intestinal conditions: acid reflux, reflux disease, heartburn, stomach reflux, GERD, Barrett's esophagus, ulcers (stomach, peptic, duodenal or not further specified); colitis; ulcerative colitis; gastritis; diverticulosis; diverticulitis; appendicitis; Crohn's disease; intestinal adhesions; abdominal adhesions; colostomy; 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; spinal cerebella 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; catapalsy
- 196. Immune system disorders; human immunodeficiency virus (HIV) positive; acquired immunodeficiency syndrome (AIDS); AIDS related complex (ARC)

Cause of death

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

Why Admitted

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

Other symptoms

- 595. Old age; everything wore out; bedridden; infirmity; natural causes; failure to thrive in older adults

596. Lack of energy/strength; (chronic) fatigue, NFS; don't have get up and go
597. Edema; retaining water; retaining fluids; swelling (location not specified)

996. None, no health condition(s) mentioned
997. Other health condition

998. DK (Don't Know); NA (Not Ascertained)
999. RF (Refused)

B2. Occupation Codes

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

MGR Management Occupations

001. Chief Executives
002. General and Operations Managers
003. Legislators
004. Advertising and Promotions Managers
005. Marketing and Sales Managers
006. Public Relations Managers
010. Administrative Services Managers
011. Computer and Information Systems Managers
012. Financial Managers
013. Human Resources Managers
014. Industrial Production Managers
015. Purchasing Managers
016. Transportation, Storage, and Distribution Managers
020. Farm, Ranch, and Other Agricultural Managers
021. Farmers and Ranchers
022. Construction Managers
023. Education Administrators
030. Engineering Managers
031. Food Service Managers
032. 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*

B3. State and Country Codes

B3a. 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)

B3b. 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

B3c. OTHER COUNTRIES

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

