

HEALTH AND RETIREMENT STUDY  
2006 Exit  
Final, Version 1.0  
October 2008

Data Description and Usage

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# Data Description and Usage

## 1. Overview

The 2006 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 release of the 2006 Exit (Final, Version 1.0) has 1,310 respondents. 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 2006 Exit interview is similar to the 2006 core (or living) interview. As such, the 2006 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 2006

The data collection period for the 2006 Exit interview was March 2006 through February 2007. 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). Cases from the HRS, AHEAD, CODA, WB and EBB are present in the HRS 2006 Exit Data. For more details about the sample, see our Web site.

### **1b. 2006 Questionnaire Sections**

The content of the 2006 Exit data collection instrument is roughly equivalent to the content of the HRS 2004 Exit instrument.

2006 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 2006 Exit Questionnaire, most questions were asked of all proxy respondents.

In addition to the respondent-level files, the 2006 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 exit proxy who gave an interview in 2006 Exit interview.

#### **1c2. Household Member and Child Level Files**

These files contain characteristics about household members, children, and siblings. The information comes from the PR\_MC file, and contains one record for each household member, child, or sibling.

### **1c3. Helper Level File**

This file contains information provided by the 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 money management, ADLs or IADLs in Section G of the 2006 Exit questionnaire. The helper file 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 a child or grandchild. The file contains one record for each transfer to a child or grandchild. Transfers to children are asked about in Section E of the 2006 instrument.

### **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 contains one record for each transfer from a child or grandchild. Transfers from children are asked about in Section E of the 2006 instrument.

## **2. File Naming Conventions**

Files are named beginning with "X06" for HRS 2006 Exit, 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. . The following letters designate the level of the data files:

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

For example, the file X06A\_R includes variables from section A (coverscreen) at the respondent level. And file X06E\_TC includes variables from section E at the monetary transfer-to 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 2006 HRS Exit (Final, Version 1.0) data release. For example,

- X06A\_R.DA contains respondent data from section A,
- X06A\_R.SAS contains corresponding SAS program statements,
- X06A\_R.SPS contains corresponding SPSS program statements,
- X06A\_R.DO contains corresponding STATA DO statements,
- X06A\_R.DCT contains corresponding STATA dictionary statements, and
- X06A\_R.TXT contains the ASCII codebook.

### 3. Data Files

The 2006 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 2006 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

X06PR_R	N=1,310	NV=97
X06A_R	N=1,310	NV=98
X06B_R	N=1,310	NV=51
X06C_R	N=1,310	NV=69
X06D_R	N=1,310	NV=61
X06E_R	N=1,310	NV=34
X06G_R	N=1,310	NV=107
X06J_R	N=1,310	NV=193
X06N_R	N=1,310	NV=244
X06T_R	N=1,310	NV=463
X06IO_R	N=1,310	NV=80
X06Y_R	N=1,310	NV=17

Household member and child level files PRIMARY IDS = HHID USUBHH OPN

X06PR_MC	N=7,784	NV=21
----------	---------	-------

Transfer-to-child-level-file PRIMARY IDS = HHID PN OPN

X06E_TC	N=432	NV=16
---------	-------	-------

Transfer-from-child-level-file PRIMARY IDS = HHID PN OPN

X06E_FC	N=165	NV=17
---------	-------	-------

Helper-level-file PRIMARY IDS = HHID PN OPN

X06G_HP	N=2,707	NV=27
---------	---------	-------

### 4. Identification Variables

Identification variables for HRS 2006 Final Exit (Version 1.0) are stored in character format.

#### 4a. Primary Identification Variables

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

##### 4a1. HHID - 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. USUBHH - 2006 Sub-household Identifier**

In combination with HHID, USUBHH uniquely identifies a household at the time of the 2006 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). USUBHH has one digit. In the 2006 Exit data, USUBHH 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 2006 data collection HHID, USUBHH, and OPN uniquely identify another person in the household member and child files and transfer-level 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 IDENTIFIER
- 2) PN PERSON NUMBER

Three identifiers uniquely identify records in the

- o helper-level datasets:

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

Three identifiers uniquely identify records in the

- o household-member-and-child-level:

- 1) HHID HOUSEHOLD IDENTIFIER
- 2) USUBHH 2006 SUB-HOUSEHOLD IDENTIFIER
- 3) OPN OTHER PERSON NUMBER

Three identifiers uniquely identify records in the

- o transfer-to-child-level,
- o transfer-from-child-level

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

### **4C. Secondary Identification Variables**

Secondary identification variables include JSUBHH and UPN\_SP. The secondary identification variables can be used to link the 2006 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:

```
JSUBHH    2004    SUB-HOUSEHOLD IDENTIFIER
UPN_SP    2006    SPOUSE/PARTNER PERSON NUMBER
```

Secondary Identification Variables for

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

```
JSUBHH    2004    SUB-HOUSEHOLD IDENTIFIER
```

## 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 seven smaller .zip files and one .pdf file, or the seven smaller files available individually for separate download. The combined file is X06exit.zip.

The individual files for separate download are:

Data file

X06da.zip containing data files.

Program statement files

X06sas.zip containing SAS data descriptors.

X06sps.zip containing SPSS data descriptors.

X06sta.zip containing STATA data descriptors.

Documentation files

X06cb.zip containing the codebook.

X06qn.zip containing the questionnaire.

X06dd.pdf - this document.

### 5b. Directory Structure

While a particular setup is not required for using the 2006 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:\x2006\	Files downloaded from Web site
c:\x2006\codebook	Unzipped files from X06cb.zip
c:\x2006\data	Unzipped files from X06da.zip
c:\x2006\qnaire	Unzipped files from X06qn.zip
c:\x2006\sas	Unzipped files from X06sas.zip
c:\x2006\spss	Unzipped files from X06sps.zip
c:\x2006\STATA	Unzipped files from X06sta.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 X06A\_R.SAS go with the X06A\_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:\x2006\sas" and the data file is located in "c:\x2006\data", you can run the file as is. A SAS system file (\*.SD2 or \*.SAS7BDAT) will be saved to directory "c:\x2006\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:\x2006\spss" and the data file is located in "c:\x2006\data", you can run the file as is. An SPSS system file (\*.SAV) will be saved to directory "c:\x2006\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:\x2006\STATA" and the data file is located in "c:\x2006\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 2006 HRS Exit (Final, Version 1.0) data release. These include a codebook, the 2006 box-and-arrow questionnaire, master code, online question concordance and this data description.

### **7a. Codebook**

The HRS 2006 Exit Codebook is provided as a series of 16 ASCII text files, as well as a 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.

#### **7a1. Variable Names**

Variable names begin with a letter designating the wave of data collection (U for 2006 Exit), followed by the section letter, and numbers after the section letter. For example, UC030 where U=2006, C=section C (physical health), 030 variable number. Variables from the preload section of the instrument will have either UX or UZ 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:

```
UX007    RESP FAM/FIN TYPE - UPDATED
UZ007    PREV WAVE R FIN/FAM TYPE

UX065_R  COUPLENESS STATUS R- UPDATED
UZ066_R  COUPLENESS STATUS R
```

#### **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, UC021M1 through UC021M6 are 2006 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., UN025\_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, UJW044a1, is a 2006 variable from section J, variable number 044 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, UJW001a, 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 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 2006 Exit Final (Version 1.0) 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 names of variables that were masked for confidentiality end in the letter "M"; for example, variable UX046M (1ST ADDRESS STATE - MASKED) and variable UA126M (REGION FACILITY LOCATED - MASKED). In the 2006 Exit the following variables were:

<u>Variable</u>	<u>Label</u>
UX026M	1ST ADDRESS STATE - MASKED
UX030M	2ND ADDRESS STATE - MASKED
UZ031M	PREV WAVE 2ND RESIDENCE STATE - MASKED
UA126M	R DIED- STATE - MASKED
UA129M	R DEATH CERTIFICATE- STATE - MASKED
UA133M1M	CAUSE OF DEATH-MASKED- 1
UA133M2M	CAUSE OF DEATH-MASKED- 2
UA068M	REGION FACILITY LOCATED - MASKED
UA076M	CURRENT RESIDENCE STATE - MASKED
UA081M	OTHER RESIDENCE STATE - MASKED
UB024M	FATHERS USUAL OCC-MASKED
UB029M1M	TYPE HISPANIC - 1-MASKED
UB029M2M	TYPE HISPANIC - 2-MASKED
UB089M1M	R RACE -1- MASKED
UB089M2M	R RACE -2- MASKED
UB089M3M	R RACE -3- MASKED
UB091M	R RACE - PRIMARY- MASKED
UB047M	ST/COUNTRY LIVED DURING SCHOOL - MASKED
UC209M1M	DIAGNOSIS OF MEMORY PROBLEM-MASKED-1
UC209M2M	DIAGNOSIS OF MEMORY PROBLEM-MASKED-2
UC108M1M	OTHER MEDICAL CONDITIONS-SP-MASKED-1
UC108M2M	OTHER MEDICAL CONDITIONS-SP-MASKED-2
UN314M1M	WHY ADMITTED - FINAL- 1- MASKED
UN314M2M	WHY ADMITTED - FINAL- 2- MASKED
UT158M	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. However, the programming of the instrument actually reused blocks of programming for similar sequences (e.g.,

the questions about people in the household, the pension questions, and the follow up for disability programs). 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. In 2006, these flow inconsistencies are not automatically fixed within the program.

We strongly recommend that you also check the Box and Arrow questionnaire whenever you have a question about flow and who should be in a given sequence.

### **7B. Master Code**

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.

### **7C. 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 2006 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.

### **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 2006. 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>

## **8. Changes in Data Resulting from Respondent Comments**

The interviewers recorded comments made by respondents during the course of the interview. HRS staff reviewed these comments for selected 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 codeframe. 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. For consistency, a limited number of changes were made to immediately subsequent variables within the section. The INAP text in the codebook does not include codeframes added in the comment review process. No consistency changes were made to variables in other sections. If any comment change affected a subsequent branch-point, the branch-point was not changed.

## 9. 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 2006 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. 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. If the last answer a respondent gave in an unfolding sequence was either "Don't Know" or "Refused," that is stored in the result variable.

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 (UX511) and the unfolding sequence that uses the random entry point from UX511.

Example Random Entry Assignment Variable from Preload:

Preload Variable from the data file X06pr\_r:

```
-----
UX511  PREASSIGNED RANDOM VALUE -11
Section: PR      Level: Respondent      Type: Numeric      Width: 1      Decimals: 0
CAI: RTab[1].X511_1Random1_3

      PREASSIGNED RANDOM VALUE

.....
      418          1. RANDOM ASSIGNMENT 1
      449          2. RANDOM ASSIGNMENT 2
      442          3. RANDOM ASSIGNMENT 3
      1            Blank. INAP Inapplicable)
=====
```

Unfolding Series from section E that uses UX511 to assign respondents an entry point:

```
UE083          TRANSFER TO CHILD - MIN
```

Section: E Level: ToChild Type: Numeric Width: 7 Decimals: 0  
CAI: 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

.....  
31 0. Value of Breakpoint  
6 1000. Value of Breakpoint  
21 1001. Value of Breakpoint  
6 5000. Value of Breakpoint  
11 5001. Value of Breakpoint  
1 20000. Value of Breakpoint  
10 20001. Value of Breakpoint  
346 Blank. INAP (Inapplicable)  
=====

UE084 TRANSFER TO CHILD - MAX  
Section: E Level: ToChild Type: Numeric Width: 10 Decimals: 0  
CAI: SecE.KidTransMain.TransToKid[1].E084\_

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

.....  
12 999. Value of Breakpoint  
6 1000. Value of Breakpoint  
22 4999. Value of Breakpoint  
6 5000. Value of Breakpoint  
14 19999. Value of Breakpoint  
1 20000. Value of Breakpoint  
25 99999996. Greater than Maximum Breakpoint  
346 Blank. INAP (Inapplicable)  
=====

UE085 TRANSFER TO CHILD - RESULT  
Section: E Level: ToChild Type: Numeric Width: 2 Decimals: 0  
CAI: SecE.KidTransMain.TransToKid[1].E085\_

.....  
16 98. DK (Don't Know)  
5 99. RF (Refused)  
411 Blank. INAP (Inapplicable)

## **10. Additional Notes**

The following are miscellaneous additional notes regarding HRS 2006 Final Exit Data Release, Version 1. If we become aware of additional issues, they will be posted on our Web site in the Data Alerts section.

### **10A. Summary of Data Model (DM) Changes during 2006 Production**

A summary variable called UVDATE appears on all of the data files except interviewer observations. Section IO is a stand alone data collection instrument that is not integrated with the main data collection program. The variable UVDATE indicates which version of the data model was used to collect data from a given proxy respondent. The different data model versions resulted in modest changes to the data collection instrument, and are summarized below:

Data Model Version 2

Section T:

UT227 - The 'other, specify' question (T244S) was programmed to be asked if 97 was selected in UT221, but instead it should be asked if 97 is selected in UT227.

### **10B. Section-specific Data Issues**

Section T:

Due to a programming issue, proxies who responded "Yes" at UT184 or only have one child were not asked follow-up amount questions. However, those who responded "No" at UT184 went through the UT9082 sequence as well as the UT9100 loop.

## **11. Obtaining the Data**

### **11a. 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. 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.

### **11b. 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.

### **11c. 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 [hrsquest@isr.umich.edu](mailto:hrsquest@isr.umich.edu) with "Attn: Papers and Publications" in the subject line.

## **12. If You Need to Know More**

This document is intended to serve as a brief overview, and to provide guidelines to using the 2006 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.

### **12A. 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/>

### **12B. 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: [hrsquest@isr.umich.edu](mailto:hrsquest@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 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

## **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)

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 an 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
- 102. Tumors, cysts or growths (exc. 101); "polyps"; osteomyelitis; pre-cancer; neuroma; benign tumors; mole removal; warts
- 103. Skin conditions - any mention exc. cancer (101) or tumor (102); dermatitis; eczema; "rashes"; Paget's disease; skin ulcers; bed sores; bullous pemphigoid; hair loss; pemphigus; seborrheic keratoses; 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; polymyalgia rheumatica; osteoarthritis
- 112. Back/neck/spine problems - chronic stiffness, deformity or pain; disc problems; scoliosis; spina bifida; myelodysplastic syndrome; "bad back"; back/neck injuries (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; sprain (location NA) (also use code 194 if available)
- 114. Missing legs, feet, arms, hands, or fingers (from amputation or congenital deformity)
- 115. Paralysis - any mention (incl. from polio - i.e. Post-polio syndrome)
- 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; Dupuytren's contracture; polymyositis; scleroderma; spinal stenosis; chromosome leak into the muscles; bone spurs (location not specified); Cellulitis; tendonitis (location not specified); TMJ (temporomandibular joint syndrome);

trigeminal neuralgia; CREST syndrome/limited scleroderma; polymyalgia; avascular necrosis (osteonecrosis); neural muscular myositis; bone disease; myalgia; myasthenia (ocular myasthenia); myositis; osteopenia; neuritis; skull bone injuries (also use code 194 if available); vascular necrosis; broken or damaged bones (location NA) from injuries/accidents (also use code 194 if available); pulled muscle (also use code 194 if available); strain (location NA) (also use code 194 if available); tendon damage (location NA) (also use code 194 if available)

### **Heart, circulatory and blood conditions**

- 121. Heart problems - heart attack (coronary) or failure; arteriosclerosis; heart aneurysms; heart deformities (congenital); heart murmurs; heart valve blockage; heart valve prolapse; heart valve replacement; angina; "bad heart"; congestive heart disease; cardiomyopathy; atrial fibrillation; MI; myocardial infarction; multiple infarction; myocarditis; endocarditis; arterial blockage; hardening of arteries; heart bypass surgery; mitral valve prolapse; myocardial ischemia; rheumatic heart disease
- 122. High blood pressure (hypertension); uncontrollable blood pressure; blood pressure problems (not specified high or low); HTN
- 123. Stroke; cerebral hemorrhage or accident; hematoma (if related to brain)
- 124. Blood disorders - blood disease; anemia; aplastic (hypoplastic) anemia; hemophilia; polycythemia vera; "bad blood"; toxemia; brain aneurysm; TIA; cold agglutinin disease; polycythemia; triglycerides or "high triglycerides"; toxoplasmosis; blood transfusion; sickle cell trait/anemia; hemochromatosis; bone marrow failure; factor VIII; elevated factor VIII; factor VIII deficiency; thrombocytopenia; sepsis; aneurysm (brain)
- 129. Other circulatory problems - phlebitis; (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 brain); elasticity of arteries; calcification of limbs; lymphoedema; claudication; pulmonary hypertension; rheumatic fever; blockage in lung

### **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/diseases"; Legionnaire's disease; Alpha-1 Antitrypsin deficiency; fungus in chest; respiratory pulmonary disease
- 134. Emphysema; COPD (chronic obstructive pulmonary disease); smoking related lung problems
- 139. Other respiratory/breathing problems - tuberculosis; sarcoidosis; ventilatory insufficiency; idiopathic pulmonary fibrosis; respiratory failure; NFS; asbestos (in lungs); black lung; pleurisy

### **Endocrine, metabolic and nutritional conditions**

- 141. Diabetes; high blood sugar
- 142. Thyroid trouble/problems; goiter; hyperthyroidism; graves disease; Hashimoto's disease
- 143. Cystic fibrosis
- 144. Nutritional problems; weight problems; eating disorders; high cholesterol; obesity; overweight; vitamin deficiency
- 145. Sugar problems - NFS; erratic blood sugar

149. Other endocrine/metabolic problems - pancreatitis; pituitary problems; gland problem; Addison's disease; gout; nephrotic syndrome; primary adrenal insufficiency; parathyroid problems; endocrinology syndrome; amyloidosis; acromegaly; hormone problems; Hyperpituitarism; hypoglycemia; low blood sugar

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

151. Stomach and intestinal conditions - acid reflux; reflux disease; heartburn; stomach reflux; GERD (gastroesophageal reflux disease); Barrett's esophagus; ulcers (stomach, peptic, duodenal or not further specified); colitis; ulcerative colitis; gastritis; diverticulitis; diverticulosis; appendicitis; Crohn's disease; intestinal adhesions; Rendu-Osler-Weber disease; abdominal adhesions; colostomy; silicates disease; "stomach pains"; ileostomy; dumping syndrome; gastroenteritis; Irritable Bowel Syndrome; diarrhea; appendectomy; enteritis; Ileitis; peritonitis; stomach removal
152. Liver conditions - cirrhosis; hepatitis; benign hepatic hypertrophy; encephalopathy "caused by liver problems"; jaundice
153. Kidney conditions - kidney stones; kidney failure (incl. dialysis); nephritis
154. Gallbladder conditions - gallstones; blockage of bile ducts; 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; bleeding; internal bleeding; hemorrhage; esophagus torn, ruptured or bleeding; swallowing difficulty; bowel incontinence

### **Neurological and sensory conditions**

161. Blindness or vision problems - glaucoma; cataracts; detached/torn retina; macular degeneration; uveitis; 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; ALS (amyotrophic lateral sclerosis 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; ADD (attention deficit disorder); dyslexia
169. Other neurological/sensory problems - headaches; migraines; dizziness; blackouts; brain damage - NFS(also use code 194 if available); meningitis; memory loss; shingles; arachnoiditis; Bell's palsy; Charcot-Marie-Tooth disease; Guillain-Barre syndrome; Medial nerve palsy; myasthenia gravis; myokymia; reflex sympathetic dystrophy (RSD); restless leg 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/familiar tremors; vertigo; upper motor neuron/motoneuron problems; progressive supranuclear palsy (PSP); thoracic outlet syndrome; "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; stillbirth; hemorrhaging or complications from birth of child; episiotomy; Rh factor
- 172. Infertility; sterilization; vasectomy; tubal ligation; tubes tied
- 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; panic attacks; agoraphobia; bipolar disorder (manic depression); posttraumatic stress disorder (PTSD); anxiety;
- 189. Other emotional and psychological problems; "mental problems" - NFS; "nerves(bad)"; "nervous breakdown"; stress; stress related problems; night wandering; behavioral problems; insomnia;

### **Miscellaneous**

- 191. Alzheimer's disease; "senility"; dementia
- 192. Dental and gum conditions - any mention
- 193. Acute infectious diseases - flu; colds; fever; mumps; Dengue fever; Lyme disease; infection; staph infection; MRSA; Epstein-Barr virus; mononucleosis; influenza; measles; rubella; strep throat; "virus" - NFS
- 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 LOW PRIORITY--code resulting chronic or ongoing conditions if possible
- 195. Sleep disorders - sleep apnea; narcolepsy; catpalexy
- 196. Immune system disorders; HIV positive; AIDS; 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

### **Other symptoms**

- 595. Old age; "everything wore out"; bedridden; infirmity; "natural causes"; failure to thrive in older adults
- 596. Lack of energy/strength; fatigue - NFS; chronic fatigue; don't have get up and go
- 597. Edema; retaining water; retaining fluids; swelling; (no specific part of body)
- 996. None
- 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
- 149. Acromegaly
- 193. Acute infectious diseases
- 133. Acute upper respiratory diseases/problems
- 165. ADD (attention deficit disorder)
- 149. Addison's disease
- 183. Agoraphobia
- 196. AIDS
- 181. Alcoholism
- 131. Allergies
- 103. Alopecia
- 133. Alpha-1 Antitrypsin deficiency
- 163. ALS
- 191. Alzheimer's disease
- 114. Amputation of limbs
- 149. Amyloidosis
- 163. Amyotrophic lateral sclerosis
- 124. Anemia
- 129. Aneurysm (location not specified but excl. heart/brain)
- 124. Aneurysm, brain
- 121. Aneurysm, heart
- 121. Angina
- 101. Angiosarcoma
- 111. Ankylosing spondylitis
- 183. Anxiety
- 124. Aplastic (hypoplastic) anemia
- 129. APLS Hughes syndrome
- 151. Appendectomy
- 151. Appendicitis
- 169. Arachnoiditis
- 196. ARC
- 121. Arterial blockage
- 121. Arteries, hardening
- 129. Arteries, elasticity
- 121. Arteriosclerosis
- 111. Arthritis
- 139. Asbestos, (in lungs)
- 132. Asthma
- 121. Atrial fibrillation
- 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
- 169. Benign tremors
- 102. Benign tumors

154. Bile duct, blockage of  
 183. Bipolar depression  
 183. Bipolar disorder  
 171. Birth of child  
 139. Black lung  
 169. Blackouts  
 156. Bladder control problems  
 155. Bladder conditions (excl. 156)  
 159. Bleeding (of the digestive tract)  
 161. Blindness  
 154. Blockage of bile ducts  
 129. Blood clots  
 124. Blood disorders, NFS  
 124. Blood disorders, specific  
 124. Blood disease  
 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)  
 159. Bowel incontinence  
 151. Bowel, irritable  
 124. 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  
 119. Cellulitis  
 163. Cerebral palsy  
 123. Cerebral hemorrhage  
 169. Charcot-Marie-Tooth disease  
 171. Childbirth  
 171. Childbirth/pregnancy problems  
 171. Childbirth, complications from  
 171. Childbirth, hemorrhaging from  
 144. Cholesterol, high  
 119. Chromosome leak into the muscles  
 134. Chronic Obstructive Pulmonary Disease (COPD)  
 596. Chronic fatigue  
 129. Circulation  
 129. Circulatory system, other specific  
 152. Cirrhosis

129. Claudication  
169. Closed head injury  
129. Clots  
124. Cold agglutin 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  
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  
119. Dupuytren's contracture  
165. Dyslexia  
179. Dysmenorrhea

162. Ear conditions, all  
144. Eating disorders  
103. Eczema  
597. Edema  
129. Elasticity of arteries  
129. Embolisms  
134. Emphysema  
152. Encephalopathy "caused by liver problems"  
121. Endocarditis  
149. Endocrinology syndrome

179. Endometriosis  
 596. Energy (low)  
 151. Enteritis  
 163. Epilepsy  
 171. Episiotomy  
 193. Epstein-Barr virus  
 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. Familiar tremors  
 596. Fatigue (chronic); lack of energy/strength  
 179. Female problems  
 193. Fever  
 118. Fibromyalgia  
 118. Fibromyositis  
 118. Fibrositis  
 193. Flu  
 133. Fungus in chest  
  
 154. Gallbladder conditions  
 154. Gallbladder, removal  
 154. Gallstones  
 129. Gangrene  
 151. Gastritis  
 151. Gastroenteritis  
 151. GERD  
 129. Giant cell arteritis  
 149. Gland problem  
 161. Glaucoma  
 142. Goiter  
 149. Gout  
 142. Grave's disease  
 102. Growths  
 169. Guillain-Barre syndrome  
 192. Gum conditions  
 179. Gynecological problems, NFS  
  
 103. Hair loss  
 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 prolapse  
 121. Heart valve replacement  
 121. Heart valve blockage  
 151. Heartburn  
 123. Hematoma, if related to brain

129. Hematoma, if not related to brain (or location NFS)  
124. Hemochromatosis  
124. Hemophilia  
159. Hemorrhage  
129. Hemorrhoids  
152. Hepatitis  
116. Hernia, hiatal  
116. Hiatal hernia  
122. High blood pressure  
141. High blood sugar  
144. High cholesterol  
124. High triglycerides  
113. Hip problem/replacement  
196. HIV positive  
131. Hives  
101. Hodgkin's disease  
149. Hormone problems  
122. HTN  
169. Hydrocephalus  
149. Hyperpituitarism  
122. Hypertension  
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  
605. Industrial/work related accident  
193. Infection (body part 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 conditions  
151. Intestinal adhesions  
151. Irritable bowel conditions

152. Jaundice

153. Kidney failure (incl. dialysis)  
153. Kidney removal  
153. Kidney stones  
603. Killed in war/combat  
113. Knee, bad/problem/replacement

194. Lacerations  
164. Laryngectomy  
165. Learning disabilities  
113. Leg cramps

133. Legionnaire's disease  
 101. Leukemia  
 152. Liver conditions  
 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 affects from  
 101. Melanoma  
 101. Melanoma, removal  
 169. 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  
 121. MI  
 169. Migraines  
 171. Miscarriage  
 117. Mitochondrial myopathy  
 121. Mitral valve prolapse  
 102. Mole removal  
 193. Mononucleosis  
 169. Motor neuron or motoneuron problems  
 604. Motor vehicle accident, incl. as pedestrian  
 193. MRSA  
 163. Multiple sclerosis  
 121. Multiple infarctions  
 193. Mumps  
 602. Murder  
 117. Muscular dystrophy  
 119. Myalgia  
 119. Myasthenia gravis  
 119. Myasthenia (ocular myasthenia)  
 112. Myelodysplastic syndrome  
 101. Myeloma / Multiple myeloma  
 121. Myocardial ischemia  
 121. Myocardial infarction  
 121. Myocarditis  
 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 condition  
 189. Nervous breakdown  
 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  
 595. Old age  
 111. Osteoarthritis  
 102. Osteomyelitis  
 119. Osteopenia  
 119. Osteoporosis  
 607. Other accidental death; accidental death NA type of accident  
 997. Other health condition  
 179. Ovarian problems  
 144. Overweight  
  
 103. Paget's disease  
 149. Pancreatitis  
 183. Panic attacks  
 115. Paralysis (any mention)  
 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  
 133. Pneumonia  
 115. Polio  
 124. Polycythemia  
 124. Polycythemia vera  
 119. Polymyalgia (polymyalgia rheumatica)  
 119. Polymyositis  
 102. Polyps  
 115. Post-polio syndrome  
 183. Posttraumatic stress disorder (PTSD)  
 102. Pre-cancer

171. Pregnancy/childbirth problems  
 179. Premenstrual syndrome (P.M.S.)  
 149. Primary adrenal insufficient  
 169. Progressive supranuclear palsy (PSP)  
 173. Prostate conditions  
 173. PSA, "high PSA"  
 103. Psoriasis  
 169. PSP (progressive supranuclear palsy)  
 183. Psychosis  
 119. Pulled muscle; location not specified (also use code 194 if available)  
 129. Pulmonary hypertension  
 139. Pulmonary idiopathic fibrosis  
 129. Pulmonary embolism  
 129. Pulmonary thrombosis

103. Rash, skin  
 129. Raynaud's disease  
 116. Rectocele  
 169. Reflex sympathetic dystrophy (RSD)  
 151. Reflux disease  
 111. Reiter's Syndrome  
 151. Rendu-Osler-Weber disease  
 179. Reproductive organs, removal of (exc. for cancer, tumors)  
 139. Respiratory failure, NFS  
 133. Respiratory diseases, acute upper  
 133. Respiratory pulmonary disease  
 169. Restless legs syndrome (RLS)  
 597. Retaining water OR retaining fluids  
 161. Retina, torn  
 161. Retina, detached  
 171. RH factor  
 121. Rheumatic heart disease  
 129. Rheumatic fever  
 111. Rheumatica  
 111. Rheumatism  
 103. Rosacea  
 113. Rotator cuff problems  
 193. Rubella

139. Sarcoidosis  
 183. Schizophrenia  
 119. Sciatica/sciatic nerve problem  
 119. Scleroderma  
 112. Scoliosis  
 103. Seborrhheic keratosis  
 163. Seizures  
 191. Senility  
 124. Sepsis  
 169. Shaky hands  
 169. Shingles  
 113. Shoulder problems  
 124. Sickle cell trait  
 124. Sickle cell anemia  
 194. Side affects 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)  
 119. Spinal stenosis  
 157. Spleen conditions  
 157. Spleen, enlarged  
 606. Sporting accident  
 113. Sprain; location not specified (also use code 194 if available)  
 131. Sprue (gluten intolerance)  
 193. Staph infection  
 172. Sterilization  
 608. Still born; died at birth or infancy -- NFS  
 171. Stillbirth  
 608. Stillbirth (as cause of death)  
 151. Stomach conditions  
 151. Stomach reflux  
 151. Stomach pains  
 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  
 145. Sugar problems; NFS  
 601. Suicide  
 159. Swallowing difficulty  
 597. Swelling, (no specified part of body)

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  
 124. TIA  
 162. Tinnitus  
 119. TMJ (temporomandibular joint syndrome)  
 131. Tonsillitis  
 124. Toxemia  
 124. Toxoplasmosis  
 119. Trigeminal neuralgia  
 124. Triglycerides OR "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)  
169. Upper motor neuron/motoneuron problems  
155. Urinary infections  
156. Urinary incontinence/loss/leakage  
155. Urosepsis  
161. Uveitis

129. Varicose veins  
119. Vascular necrosis  
129. Vascular disease  
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. Numbers in parentheses following the industry categories are the 1980 Standard Occupational Classification code equivalents. 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. Numbers in parentheses following the industry categories are the SIC definitions. The 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. Notspecified 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

**Accommodations and Food Services**

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

**OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)**

- 877. Automotive repair and maintenance
- 878. Car washes
- 879. Electronic and precision equipment repair and maintenance
- 887. Commercial and industrial machinery and equipment repair and maintenance
- 888. Personal and household goods repair and maintenance
- 889. Footwear and leather goods repair

- 897. Barber shops
- 898. Beauty salons
- 899. Nail salons and other personal care services
- 907. Dry cleaning and laundry services
- 908. Funeral homes, cemeteries and crematories
- 909. Other personal services
- 916. Religious organizations
- 917. Civic, social, advocacy organizations, and grantmaking and giving services
- 918. Labor unions
- 919. Business, professional, political, and similar Organizations
- 929. Private households

**PUBLIC ADMINISTRATION AND ACTIVE DUTY MILITARY**

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

## **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)

- 53. Panama Canal Zone
- 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