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Longitudinal

Mortality

Study

Public Use Microdata Sample (PUMS) File

Release 5.1 Documentation

April 15, 2021

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**The National Longitudinal Mortality Study Public-use File**

**Variable Reference Manual, Version 5.1**

# **Introduction**

The National Longitudinal Mortality Study (NLMS) is a national, longitudinal, mortality study sponsored by the [National Heart, Lung, and Blood Institute](http://www.nhlbi.nih.gov/), the [National Cancer Institute](http://www.nci.nih.gov/), the [National Institute on Aging](http://www.nia.nih.gov/) (all part of the National Institutes of Health), the [National Center for Health Statistics](http://www.cdc.gov/nchs/) part of the Center for Disease Control and Prevention and the [U.S. Census Bureau](http://www.census.gov/) for the purpose of studying the effects of differentials in demographic and socio-economic characteristics on mortality.

The NLMS ***Public Use Microdata Sample (PUMS)*** is a specialized extract of the full NLMS that is designed to provide easy access to an extract of the main study while protecting the confidentiality of those who have responded to the original surveys on which the NLMS is based. This documentation describes the unique structure of the PUMS files and identifies variables selected from the NLMS to be part of the NLMS PUMS.

The main NLMS consists of a database developed for the purpose of studying the effects of demographic and socio-economic characteristics on differentials in U.S. mortality rates. The NLMS is a unique research database in that it is based on a multistage stratified sample of the non-institutionalized population of the United States. It consists of U.S. Census Bureau data from Current Population Surveys (CPS) and a subset of the 1980 Census combined with death certificate information to identify mortality status and cause of death. The study currently has approximately 3.8 million records with over 550,000 identified mortality cases. The content of the socio-economic variables available offers researchers the potential to answer questions on mortality differentials for a variety of key socio-economic and demographic subgroups not covered as extensively in other databases. This project has generated over 90 publications in various prominent scholarly, scientific, and public health related journals.

The NLMS currently consists of Annual Social and Economic Supplements (ASEC) which cover the period from March 1973 to March 2011; CPS for February 1978, April 1980, August 1980, December 1980, and September 1985; and one 1980 Census cohort—39 cohorts in all. Mortality information is obtained from death certificates available for deceased persons through the National Center for Health Statistics. Standard demographic and socio-economic variables such as education, income, and employment, as well as information collected from death certificates including cause of death are available for analyses.

**Design and Content of the NLMS PUMS Files**

There are three file formats in the NLMS PUM:

* one 11-year follow up file, **File 11**
* Three 6-year follow up files, Files **6a, 6b, 6c**
* One tobacco-use follow up file, File **tu.**

The 11-year follow up file consists of a subset of the 39 NLMS cohorts included in the full NLMS that can be followed prospectively for 11 years. The content of each record on the file includes demographic and socioeconomic variables combined with a mortality outcome, if there is one. To prevent disclosure, all of the File 11 records have been concatenated into a single file and the temporal dimension has been altered. In lieu of identifying the CPS year and starting point of mortality follow-up for each file, all of the records in File 11 have been assigned an imaginary starting point conceptually identified as April 1, 1990. These records are then tracked forward for 11 years to observe whether person in the file has died. This approach results in a maximum of 4018 days of follow up for this cohort.

For those who have died, the underlying cause of death and follow-up time until death have been provided. For those not deceased by the end of 4018 days follow-up period, the follow-up time provided is the full observation length, 4018 days or 11 years. In the construction of File 11, it was assumed that these surveys, collected from throughout the 1980s and 1990s, would adequately reflect the U.S. non-institutionalized population on April 1, 1990. Under this assumption, the separate CPS samples have been combined and can be viewed as one large sample taken on that date. Original weights were re-calculated to reflect the size of the U.S. non-institutionalized population at that time.

The second PUMS format actually describes three files, divided according to whether the original CPS surveys were taken in the early 1980s, **File 6a**, early 1990s, **File 6b,** or early 2000s for **File 6c**. All of these three files have a maximum follow-up duration of six years. The weights on these three files were set to represent the size of the U.S. non-institutionalized population on April 1, 1983 for File 6a, April 1, 1993 for File 6b, and April 1, 2002 for File 6c. Otherwise, they are identical in variable content to PUMS File 11, except for the shorter follow-up time.

The third PUMS format is Tobacco-use file, **tu.** To construct this file, ASEC samples from 1993 through 2005 containing tobacco-use supplement information were combined into one file and considered to be one sample for the non-institutionalized population of the U.S. The maximum follow-up time for records in this file is 5 years. The approximate target date for this sample would be April 1, 2000. With exceptions on levels of urban/rural and SMSA status, this file consists of the same variables as in the other public files in this release but also includes variables on cigarette use and the use of other forms of tobacco.

This release of the NLMS PUMS is an extension of the previous four releases. It includes additional records and variables and provides a third six-year follow-up file and a tobacco use file. Record identifying variables such as Record ID and HHI are unique for these PUMS files and not related to corresponding numbers in other NLMS files.

**The State of Residence Variable**

An important variable on this file is the state of residence at the time of survey. The inclusion of this variable in the file is permitted as long as the area represented by the intersection of the geographical variables on the file did not contain less than 100,000 persons of the U.S. population, a Census Bureau requirement that protects the confidentiality of CPS participants. In order to meet this requirement, the intersection of the geographic variables on this public-use file—state of residence, urban/rural and SMSA status were examined to identify areas of sparse population. For those areas not meeting the 100,000-population minimum requirement, the levels of urban/rural or SMSA status were adjusted in a manner to have the least misleading impact on the geographical definition. No change in the defined state of residence was made in this adjustment process.

**WARNING: Change in Mortality Processing**

For the release of this public-use file, mortality outcomes for the most recent match of NLMS records to the NDI have not been adjudicated through the second step of the NLMS resolution process. This second step involves a manual review of matches that were not resolved by the first step of the match resolution process, passing matches through a computer screening algorithm.

Users may be interested in comparing results from the full processing except for the final match results to those if only the computer screening results are used to determine the mortality outcome for all previous matches. This may be done using the indicator variable, INDALG, now added to each file. A possible conditioning code is indicated on page [27](#_36._Indicator_for_1) where this variable is fully described.

### Index to NLMS Public-Use File Variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITEM NO. | DESCRIPTION | VARIABLE NAME | PAGE NO. | LOCATION | SIZE |
|  | **File and Survey Variables** |  |  |  |  |
|  | Record Number | [RECORD](#RecordNumber) | 6 | 1 | 7 |
|  | Adjusted Weight | [WT](#AdjustedWeight) | 6 | 21 | 4 |
|  | Household ID No. | [HHID](#HouseholdIdentification) | 7 | 25 | 7 |
|  | Presence of SSN | [SSNYN](#PresenceofSSN) | 7 | 61 | 1 |
|  | **Geography** |  |  |  |  |
|  | State Recode | [STATER](#StateRecode) | 8 | 67 | 2 |
|  | Urban/Rural Status | [URB](#UrbanRural)AN | 8 | 48 | 1 |
|  | SMSAST Status | [SMSAST](#_7._SMSA_Status) | 9 | 49 | 1 |
|  | **Age and Gender** |  |  |  |  |
|  | Age at Time of Interview | [AGE](#Age) | 10 | 8 | 2 |
|  | Sex | [SEX](#Sex) | 10 | 11 | 1 |
|  | Region of Birth | [POB](#PlaceofBirth) | 11 | 18 | 3 |
|  | **Race and Ethnicity** |  |  |  |  |
|  | Race | [RACE](#Race) | 12 | 10 | 1 |
|  | Hispanic Origin | [HISP](#HispanicOrigin) | 12 | 13 | 1 |
|  | **Household and Relationship Characteristics** |  |  |  |  |
|  | Marital Status | [MS](#MaritalStatus) | 13 | 12 | 1 |
|  | Relationship to Reference Person | [RELTRF](#RelationshiptoReferencePerson) | 13 | 34 | 1 |
|  | Number of People in HH | [HHNUM](#NumberinHousehold) | 14 | 32 | 2 |
|  | Housing Tenure | [TENURE](#HousingTenure) | 14 | 71 | 1 |
|  | **Other Demographics** |  |  |  |  |
|  | Highest Grade Completed | [EDUC](#HighestGrade) | 15 | 16 | 2 |
|  | Veteran Status | [VT](#VeteranStatus) | 16 | 62 | 1 |
|  | Citizenship | [CITIZEN](#_18._Citizenship_) | 16 | 72 | 1 |
|  | Health | [HEALTH](#_19._Health_) | 16 | 73 | 2 |
|  | **Work Force Variables** |  |  |  |  |
|  | Employment Status Recode | [ESR](#EmploymentStatus) | 17 | 47 | 1 |
|  | 4 Digit Industry Code | [IND](#Industry) | 17 | 41 | 4 |
|  | Major Industry Code | [MAJIND](#MajorIndustry) | 18 | 45 | 2 |
|  | 4 Digit Occupation Code | [OCC](#Occupation) | 18 | 35 | 4 |
|  | Major Occupation Code | [MAJOCC](#MajorOccupation) | 19 | 39 | 2 |
|  | Recoded Class of Worker | [RCOW](#_24._Recoded_Class) | 19 | 69 | 2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITEM NO. | DESCRIPTION | VARIABLE NAME | PAGE NO. | LOCATION | SIZE |
|  | **Income and Poverty** |  |  |  |  |
|  | Inflation Adjusted Income | [ADJINC](#AdjustedIncome) | 20 | 14 | 2 |
|  | Income as Percent of Poverty Level | [POVPCT](#IncomePercentPovertyLevel) | 21 | 65 | 2 |
|  | **Health Insurance** |  |  |  |  |
|  | Health Insurance Status | [HISTATUS](#HealthInsuranceStatus) | 22 | 63 | 1 |
|  | Health Insurance Type | [HITYPE](#HealthInsuranceType) | 22 | 64 | 1 |
|  | **Death Certificate Information** |  |  |  |  |
|  | Death Indicator | [INDDEA](#DeathIndicator) | 23 | 50 | 1 |
|  | Cause of Death | [CAUSE113](#ThreeDigitCOD) | 23 | 51 | 3 |
|  | Length of Follow-up | [FOLLOW](#LengthofFollowup) | 24 | 54 | 4 |
|  | Day of Week of Death | [DAYOD](#DayofDeath) | 24 | 58 | 1 |
|  | Hospital Type | [HOSP](#PlaceofDeath) | 25 | 59 | 1 |
|  | Hospital Death Indicator | [HOSPD](#HospitalDeathIndicator) | 26 | 60 | 1 |
|  | **Death Determination** |  |  |  |  |
|  | Indicator of Algorithmic Death | [INDALG](#_36._Indicator_for_1) | 27 | 75 | 1 |
|  | **Tobacco Use (tu only)** |  |  |  |  |
|  | Smoked More than 100 Cigarettes | [SMOK100](#_36._Smoked_More) | 28 | 76 | 1 |
|  | Age Started Smoking | [AGESMK](#_37._Age_Started) | 28 | 77 | 2 |
|  | Cigarette Smoking Status | [SMOKSTAT](#_38._Cigarette_Smoking) | 28 | 79 | 1 |
|  | Rules for Smoking Cigarettes in the Home | [SMOKHOME](#_39._Rules_for) | 29 | 80 | 1 |
|  | Currently Use Smokeless Tobacco | [CURRUSE](#_41._Currently_Use_1) | 30 | 81 | 5 |
|  | Ever Use Smokeless Tobacco | [EVERUSE](#_41._Ever_Use) | 31 | 86 | 5 |

**NLMS PUMS Variable Descriptions, Codes, and Frequencies**

**FILE AND SURVEY VARIABLES**

**1. Record Number** **RECORD**  [Return to Index](#INDEX_1)

**DESCRIPTION:** A sequential number for each record on the file.

#### FREQUENCIES

There are 1,835,072 records in the 11 years follow up, **File 11**.

There are 1,040,719 records on file from first 6 years of follow up, **File 6a**.

There are 525,884 records on file from the second 6 years of follow up, **File 6b**.

There are 745,162 records on file from the third 6 years of follow up, **File 6c**.

There are 493,282 records on file from the tobacco use file, **File tu**.

#### 2. Adjusted Weight WT

**DESCRIPTION**: These public-use files consist of records from many separate CPS or ASEC Surveys. All records have been weighted to give population totals for the non-institutionalized population of the U.S. on April 1, 1983 for **File 11** and File **6a**, April 1, 1993 for File **6b**, and April 1, 2002 for File **6c**, and April 1, 2000 for **File tu**. Weights were obtained by raking age-sex-race group totals by state totals for each survey. Survey weights were then readjusted to the target dates of the associated U.S. population and accounting for the different numbers of records by survey in this each of the four files.

#### 3. Household Identification Number HHID [Return to Index](#INDEX_1)

**DESCRIPTION**: The household identification number is a unique 7-digit number assigned to every member of a household.

**Note:** HHID is computed sequentially for the records in the public use file. This variable is generated internally to the public use file and is not related to the HHID in the full NLMS.

#### 4. Presence of SSN SSNYN

**DESCRIPTION**: Indicator of the presence or absence of Social Security Number on the CPS record.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** | |
| 0 | Not present on CPS | 758,586 | 416,439 | 180,830 | 313,244 |  | 241,760 |
| 1 | Present on CPS | 1,076,486 | 624,280 | 345,054 | 431,918 |  | 251,522 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 |  | 493,282 |

**GEOGRAPHY VARIABLES**

#### 5. State Recode STATER [Return to Index](#INDEX_1)

**DESCRIPTION**: The state of residence at the date of interview. First digit of STATER is the Census Bureau division code. The second digit is the state within the division code.

Codes are given in [Appendix A.](#APP_A)

#### 6. Urban/Rural Status URBAN

**DESCRIPTION:** Urban or rural status. The definition of urban and rural follows from the 1970, 1980, or 1990 Census as appropriate to the source file. In those three definitions, an urban area consists of all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in:

(1) places of 2,500 or more inhabitants incorporated or identifiable as cities, villages, boroughs and towns, but excluding those persons living in the rural portions of extended cities; and

(2) other territories, incorporated and unincorporated included in urbanized areas.

The population not classified as urban constitutes the rural population.

#### Note: For confidentiality protection, URBAN for File tu is not defined.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** |
| . | Unknown | 13,042 | 13,042 | 0 | 29,861 |
| 1 | Urban | 1,264,291 | 688,045 | 375,868 | 548,439 |
| 2 | Rural | 557,739 | 339,632 | 150,016 | 166,862 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 |

#### 7. SMSA Status SMSAST [Return to Index](#INDEX_1)

**DESCRIPTION**: Is a household located in an SMSA or not? The definition of SMSA is based on county boundaries included in the region defining the SMSA at the time of the 1970 or 1980 Census. A central city is defined as the city or cities associated with the name designation of the SMSA Codes.

**Note:**  For confidentiality protection, SMSAST for File **tu** is not defined.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** |
| . | Unknown | 13,056 | 13,056 | 0 | 141,539 |
| 1 | SMSA, in central city | 502,424 | 270,993 | 150,803 | 167,463 |
| 2 | SMSA, not in central city | 722,726 | 369,470 | 229,995 | 269,298 |
| 3 | Not in an SMSA | 596,866 | 387,200 | 145,086 | 166,862 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 |

**AGE AND GENDER VARIABLES**

#### 8. Age at Time of Interview AGE [Return to Index](#INDEX_1)

**DESCRIPTION:** The age of the person at the time of the survey. If age was not available on the CPS record, then age was taken from CPS control file data. If age was not available from either of these sources but month and year of birth were available, then age was calculated using month and year of birth. Age is top coded at 90 years. Records of full NLMS persons of unknown age are not included in this file.

**CODES**

Actual ages to 90 years old. All valid ages over 90 are coded as 90.

**9. Sex** **SEX**

**DESCRIPTION**: The code for gender is determined from CPS records as first priority and from the CPS control file as second priority. Full study NLMS persons for whom a gender could not be determined are not maintained on this file.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| 1 | Male | 880,617 | 501,101 | 249,844 | 361,196 | 230,967 |
| 2 | Female | 954,455 | 539,618 | 276,040 | 383,966 | 262,315 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 1,835,072 |

#### 10. Region of Birth POB [Return to Index](#INDEX_1)

**DESCRIPTION:** Place of birth is categorized into 11 different regions of birth, isolating Mexico and splitting Europe. For the U.S. born category, the FIPS state code is prefixed by “9” to create codes in the 900’s. The two-digit FIPS state codes are listed in [Appendix B](#APP_B). For example, the POB code 904 represents Arizona since the FIPS code for Arizona is 04.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| 000 | Missing POB | 267,188 | 182,683 | 59,515 | 33,965 | 77,433 |
| 101 | African Continent | 1,990 | 716 | 772 | 1,914 | 974 |
| 102 | Asian Continent | 24,850 | 8,897 | 10,284 | 19,919 | 11,173 |
| 103 | A country in Eastern Europe | 3,189 | 1,293 | 1,214 | 2,060 | 1,372 |
| 104 | A country in Western Europe | 19,154 | 9,537 | 6,644 | 7,537 | 6,173 |
| 105 | North America (Not U.S. or Mexico) | 4,891 | 2,604 | 1,601 | 2,172 | 1,672 |
| 106 | A country on South America Continent | 7,309 | 1,903 | 2,961 | 6,184 | 2,716 |
| 107 | A country in Central America | 6,938 | 1,219 | 2,997 | 7,339 | 2,836 |
| 108 | Mexico | 28,018 | 6,193 | 11,257 | 29,784 | 10,558 |
| 109 | A country not on a continent (identified as an island) | 13,112 | 4,584 | 5,234 | 9,120 | 4,603 |
| 110 | Elsewhere but not in the U.S. | 1,050 | 176 | 628 | 1,999 | 651 |
| 111 | Not in the U.S., P.R., or outlying possession | 8,429 | 3,203 | 3,275 | 4,631 | 2,045 |
| 901-960 | Born in the U.S. | 1,448,954 | 817,711 | 419,502 | 618,538 | 371,076 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**RACE AND ETHNICITY VARIABLES**

#### 11. Race RACE [Return to Index](#INDEX_1)

**DESCRIPTION:** An expanded version of race which separates the American Indian, etc. and Asian, etc. out of the Other category in early CPS files.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Unknown or missing | 2,890 | 2,890 | 0 | 93 | 14 |
| 1 | White | 1,584,581 | 902,265 | 452,584 | 615,742 | 424,472 |
| 2 | Black | 180,475 | 105,663 | 48,509 | 78,620 | 45,561 |
| 3 | American Indian or Alaskan Native | 18,859 | 9,436 | 5,734 | 11,143 | 5,222 |
| 4 | Asian or Pacific Islander | 43,128 | 19,511 | 14,872 | 29,469 | 15,555 |
| 5 | Other nonwhite | 5,139 | 954 | 4,185 | 10,095 | 2,458 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 12. Hispanic Origin HISP

**DESCRIPTION**: Hispanic origin classifies all persons by Mexican, Hispanic (not Mexican) or Non-Hispanic (Not Mexican or Hispanic) origin.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Unknown, not available | 52,502 | 32,919 | 13,051 | 9,956 | 10,702 |
| 1 | Mexicans | 112,673 | 45,341 | 35,325 | 84,229 | 25,367 |
| 2 | Other Hispanics | 73,754 | 29,752 | 24,536 | 49,259 | 17,463 |
| 3 | Non-Hispanics | 1,596,143 | 932,707 | 452,972 | 601,718 | 439,750 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**HOUSEHOLD AND RELATIONSHIP CHARACTERISTICS VARIABLES**

#### 13. Marital Status MS [Return to Index](#INDEX_1)

**DESCRIPTION:** Marital status at time of survey.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Unknown, persons LT 15 years old | 361,226 | 229,472 | 69,091 | 184,838 | 2,730 |
| 1 | Married | 862,222 | 482,628 | 264,407 | 311,447 | 288,734 |
| 2 | Widowed | 102,406 | 58,110 | 31,306 | 30,793 | 33,975 |
| 3 | Divorced | 106,600 | 50,403 | 37,476 | 51,777 | 42,324 |
| 4 | Separated | 32,053 | 17,569 | 10,099 | 11,534 | 9,591 |
| 5 | Never married | 370,565 | 202,537 | 113,505 | 154,773 | 115,928 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 14. Relationship to Reference Person RELTRF

**DESCRIPTION**: Relationship to reference person within the household.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Unknown | 4,674 | 4,667 | 7 | 0 | 0 |
| 1 | Ref person with other relatives in household | 522,687 | 287,662 | 163,089 | 198,238 | 177,894 |
| 2 | Ref person with no other relatives in household | 198,690 | 101,513 | 67,037 | 77,050 | 73,999 |
| 3 | Spouse of reference person | 418,226 | 235,381 | 127,766 | 148,360 | 140,048 |
| 4 | Child of reference person | 586,919 | 360,975 | 133,867 | 266,302 | 67,547 |
| 5 | Other relative of reference person | 52,115 | 26,863 | 15,739 | 27,517 | 16,591 |
| 6 | Non-relative of reference person | 51,761 | 23,658 | 18,379 | 27,695 | 17,203 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 15. Number of People in Household HHNUM [Return to Index](#INDEX_1)

**DESCRIPTION**: The number of persons residing in the household at the time of the interview.

**NOTE**: For some households HHNUM is computed directly from within the source NLMS file. It is defined to be the number of records in this file having the same PSU, SEGMENT, and SERIAL NUMBER. For the remaining records, household size is taken directly from the original CPS record.

#### 16. Housing Tenure TENURE

**DESCRIPTION**: Variable defines the type of ownership of the residence. All members of the household receive the same values.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Missing information | 25,447 | 25,447 | 0 | 0 | 207 |
| 1 | Residence is owned by householder | 1,257,836 | 715,204 | 359,750 | 518,830 | 362,974 |
| 2 | Residence is rented by householder | 517,966 | 280,235 | 156,715 | 214,988 | 122,394 |
| 3 | Residence is rented for noncash rent by householder | 33,823 | 19,833 | 9,419 | 11,344 | 7,707 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**OTHER DEMOGRAPHIC VARIABLES**

**17. Highest Grade Completed** **EDUC**  [Return to Index](#INDEX_1)

**DESCRIPTION**: Highest grade completed at the time of the interview. There are two different concepts the CPS has used to measure education: the years of school approach and the educational achievement approach. The first asked the highest grade level respondents had attended, and had a separate question that verified whether the respondent had actually completed that grade; the second concept inquired about educational achievement in terms of *degrees attained* such as a high school diploma, a B.A., or a Ph.D. CPS employed the years of school concept through 1991 and switched to the achievement concept starting with 1992. EDUC roughly translates the post-1991 attainment data into the equivalent years of school completed.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| .. | Missing, invalid (includes children LT 14 years old) | 350,870 | 218,376 | 69,831 | 184,838 | 2,999 |
| 01 | None, LT E1 | 9,813 | 5,224 | 3,580 | 2,417 | 1,870 |
| 02 | Completed E1, E2, E3, E4 | 22,510 | 14,333 | 5,666 | 6,022 | 4,884 |
| 03 | Completed E5, E6 | 35,424 | 21,156 | 9,312 | 11,635 | 8,495 |
| 04 | Completed E7, E8 | 121,105 | 84,828 | 26,720 | 22,976 | 24,471 |
| 05 | Completed H1 | 75,626 | 47,712 | 19,318 | 23,745 | 18,652 |
| 06 | Completed H2 | 88,965 | 55,652 | 23,439 | 26,456 | 24,107 |
| 07 | Completed H3 | 84,801 | 46,340 | 25,548 | 35,409 | 27,726 |
| 08 | Completed H4 | 517,831 | 296,488 | 157,207 | 168,502 | 161,405 |
| 09 | Completed C1 | 62,628 | 50,355 | 12,273 | 0 | 6,739 |
| 10 | Completed C2 | 72,689 | 57,691 | 14,998 | 0 | 8,343 |
| 11 | Completed C3 | 145,944 | 23,146 | 72,422 | 141,000 | 99,891 |
| 12 | Completed C4 | 154,861 | 71,265 | 55,161 | 82,444 | 68,342 |
| 13 | Completed C5 | 18,829 | 15,248 | 3,581 | 0 | 2,045 |
| 14 | Completed C6 | 73,176 | 32,905 | 26,828 | 39,718 | 33,313 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 18. Veteran Status VT [Return to Index](#INDEX_1)

**DESCRIPTION**: Indicates whether person was U.S. veteran.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Missing | 396,051 | 248,581 | 79,898 | 204,241 | 11,047 |
| 0 | Not a veteran | 1,226,547 | 662,083 | 386,115 | 488,435 | 420,588 |
| 1 | Veteran | 212,474 | 130,055 | 59,871 | 52,486 | 61,647 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 19. Citizenship CITIZEN

**DESCRIPTION**: This variable indicates the person’s citizenship at the time of survey.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Blank, unknown, or failed edit records | 1,370,211 | 1,040,719 | 305,005 | 51,893 | 195,148 |
| 1 | Native, born in the U.S. | 406,059 | 0 | 194,320 | 602,143 | 260,542 |
| 2 | Native, born in PR or U.S. outlying area | 3,861 | 0 | 1,845 | 4,920 | 1,745 |
| 3 | Native, born abroad of U.S. parents | 4,167 | 0 | 2,086 | 5,736 | 2,538 |
| 4 | Foreign born, U.S. citizenship by naturalization | 16,009 | 0 | 6,565 | 28,004 | 13,305 |
| 5 | Foreign born, NOT a U.S. Citizen | 34,765 | 0 | 16,063 | 52,466 | 20,004 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 20. Health HEALTH

**DESCRIPTION**: This variable is the response to the question: “Would you say that [person]’s health in general is”.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Missing, Don’t know, Refuse, or Not in universe | 1,450,943 | 1,040,719 | 383,838 | 76,175 | 186,881 |
| 1 | Excellent | 135,586 | 0 | 50,725 | 239.353 | 92,020 |
| 2 | Very good | 118,394 | 0 | 43,587 | 209,339 | 97,651 |
| 3 | Good | 87,106 | 0 | 31,564 | 151,566 | 75,367 |
| 4 | Fair | 29,674 | 0 | 11,074 | 48,292 | 28,551 |
| 5 | Poor | 13,369 | 0 | 5,096 | 20,437 | 12,812 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### WORK FORCE VARIABLES

#### 21. Employment Status Recode ESR [Return to Index](#INDEX_1)

**DESCRIPTION**: Recoded employment status.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Children LE 13, Armed Forces, missing | 350,903 | 214,555 | 72,564 | 187,967 | 3,386 |
| 1 | In the labor force, employed | 840,244 | 448,920 | 267,071 | 340,349 | 293,436 |
| 2 | In the labor force, absent from work | 43,324 | 25,248 | 12,260 | 15,876 | 13,608 |
| 3 | In the labor force, unemployed, looking for work | 63,414 | 39,734 | 17,994 | 17,833 | 15,650 |
| 4 | Not in the labor force, disabled, unable to work | 30,992 | 11,779 | 11,308 | 22,547 | 15,276 |
| 5 | Not in the labor force, retired, other (housekeeping, student, etc.) | 506,195 | 300,483 | 144,687 | 160,590 | 151,926 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 22. 4 Digit Industry Code IND

**DESCRIPTION**: Job specific industrial classification codes. Specific codes for industries are in [Appendix C](#APP_C). The 2007 version of industry code was adopted from the North American Industrial Classification (NAICS) coding system.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| 0170-9790 | Have an industry code | 979,526 | 537,404 | 305,008 | 377,242 | 328,858 |
| .... | Never worked, unknown, or LE 13 | 855,546 | 503,315 | 220,876 | 367,920 | 164,424 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 23. Major Industry Code MAJIND [Return to Index](#INDEX_1)

**DESCRIPTION**: Major industry classification recode of 2007 specific industry.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| .. | Industry missing, not reported, unknown |  | 855,546 | 503,315 | 220,876 | 367,920 | 164,424 |
| 01 | Agriculture, Forestry, fishing, and hunting | ((0170-0290) | 33,749 | 22,039 | 8,528 | 7,845 | 8,425 |
| 02 | Mining | 0(0370-0490) | 9,222 | 6,308 | 2,127 | 2,069 | 2,277 |
| 03 | Construction | (0770) | 62,977 | 34,886 | 18,947 | 27,747 | 21,531 |
| 04 | Manufacturing (Nondurable Goods) | ((1070-3990) | 173,788 | 103,650 | 50,139 | 47,999 | 49,530 |
| 05 | Wholesale and retail trade | ((4070-5790) | 152,120 | 83,753 | 47,373 | 56,584 | 50,022 |
| 06 | Transportation, warehousing and utilities | ((0570-0690,  6070-6390) | 48,790 | 27,017 | 14,977 | 18,305 | 16,225 |
| 07 | Information | (6470-6780) | 23,429 | 13,469 | 6,765 | 8,899 | 7,726 |
| 08 | Financial, Insurance and Real Estate, rental and leasing | ((6870-7190) | 59,413 | 30,720 | 19,760 | 25,117 | 21,457 |
| 09 | Professional, Scientific, management, administrative, waste management services | ((7270-7790) | 67,401 | 29,942 | 24,519 | 36,777 | 28,605 |
| 10 | Educational, health care, and social services | ((7860-8470) | 174,048 | 89,797 | 57,881 | 76,099 | 65,484 |
| 11 | Arts, entertainment, recreation, leisure accommodation, and food | ((8560-8690) | 75,091 | 39,265 | 24,047 | 34,370 | 25,774 |
| 12 | Other Services except public administration | ((8770-9290) | 53,166 | 30,508 | 15,683 | 18,558 | 16,305 |
| 13 | Public Administration | ((9370-9590) | 46,010 | 25,883 | 14,131 | 16,812 | 15,409 |
| 14 | Armed Forces | (9670-9870) | 322 | 167 | 131 | 61 | 88 |
|  |  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 24. 4 Digit Occupation Code OCC

**DESCRIPTION**: Job specific 2000 occupational classification codes. Specific codes for occupations are given in [Appendix D](#APP_D), the 2000 Census of Population—Occupational Classification System.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| 0000-9840 | Have occupational code | 979,747 | 537,719 | 304,914 | 377,242 | 328,803 |
| .... | Unknown, no occupation or age LT 14 | 855325 | 503,000 | 220,970 | 367,920 | 164,479 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 25. Major Occupation Code MAJOCC [Return to Index](#INDEX_1)

**DESCRIPTION**: Major occupation classification recode of 2000 specific occupational codes.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| .. | Unknown, missing, or not reported |  | 855,325 | 503,000 | 220,970 | 367,920 | 164,479 |
| 01 | Management, business and financial occupations | (0010-0950) | 125,472 | 63,791 | 41,682 | 54,110 | 48,164 |
| 02 | Professional and related occupations | (1000-3540) | 190,303 | 96,729 | 63,697 | 78,002 | 71,462 |
| 03 | Service Occupations | (3600-4650) | 118,839 | 66,926 | 35,352 | 55,958 | 39,488 |
| 04 | Sales and related occupations | (4700-4965) | 110,250 | 57,885 | 36,027 | 43,458 | 38,251 |
| 05 | Office and administrative support occupations | (5000-5940) | 150,910 | 85,235 | 46,581 | 51,987 | 48,043 |
| 06 | Farming, fishing and forestry occupations | (6005-6130) | 16,564 | 10,796 | 4,000 | 4,037 | 3,871 |
| 07 | Construction and extraction occupations | (6200-6940) | 56,273 | 31,857 | 16,522 | 23,485 | 18,342 |
| 08 | Installation, maintenance, and repair occupations | (7000-7630) | 37,456 | 21,285 | 11,235 | 13,466 | 12,141 |
| 09 | Productions occupations | (7700-8950) | 107,663 | 65,580 | 29,998 | 29,139 | 28,679 |
| 10 | Transportation and material moving occupations | (9000-9750) | 65,693 | 37,466 | 19,689 | 23,539 | 20,273 |
| 11 | Armed Forces | (9800-9830) | 324 | 169 | 131 | 61 | 88 |
|  |  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 26. Recoded Class of Worker RCOW

**DESCRIPTION**: A recode of the detailed class of worker as derived from the type of work performed and the response to question 23E on the CPS questionnaire.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Not in universe, unknown, children LT 15 years old | 853,710 | 498,987 | 220,072 | 379,500 | 171,444 |
| 01 | Private industry | 686,830 | 388,197 | 222,454 | 194,368 | 186,843 |
| 02 | Government | 173,678 | 85,446 | 47,188 | 126,713 | 93,286 |
| 03 | Self-employed | 108,188 | 57,963 | 34,152 | 44,075 | 40,122 |
| 04 | Worked without pay | 6,029 | 5,093 | 833 | 246 | 722 |
| 05 | Never worked | 6,637 | 5,033 | 1,185 | 260 | 865 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**INCOME AND POVERTY VARIABLES**

#### 27. Inflation Adjusted Income ADJINC [Return to Index](#INDEX_2)

**DESCRIPTION**: Family income inflated to 1990 dollars is assigned a category as indicated below. The determined category is then assigned to each member of the family. For CPS files with categorical values of income, the median value of the category of income is inflated by the corresponding Consumer Price Index (CPI) and then assigned to the appropriate category.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |  |
| . | Income missing or unknown | 44,269 | 43,186 | 797 | 886 | 4,984 |  |
| 1 | $0 - $4,999 | 85,167 | 40,979 | 29,126 | 39,250 | 24,538 |  |
| 2 | $5,000 - $7,499 | 84,435 | 51,954 | 22,324 | 25,802 | 13,906 |  |
| 3 | $7,499 - $9,999 | 73,507 | 38,744 | 22,921 | 29,426 | 21,959 |  |
| 4 | $10,000 - $12,499 | 80,888 | 45,789 | 23,112 | 31,092 | 21,844 |  |
| 5 | $12,500 - $14,999 | 95,669 | 60,055 | 23,911 | 32,087 | 23,754 |  |
| 6 | $15,000 - $19,999 | 149,275 | 80,504 | 45,488 | 61,524 | 38,576 |  |
| 7 | $20,000 - $24,999 | 164,161 | 97,841 | 43,918 | 61,234 | 43,375 |  |
| 8 | $25,000 - $29,999 | 177,229 | 115,213 | 41,584 | 55,614 | 40,242 |  |
| 9 | $30,000 - $34,999 | 98,332 | 41,763 | 37,661 | 51,306 | 35,525 |  |
| 10 | $35,000 - $39,999 | 164,039 | 111,912 | 35,288 | 46,908 | 34,433 |  |
| 11 | $40,000 - $49,999 | 149,184 | 61,363 | 58,866 | 81,409 | 50,351 |  |
| 12 | $50,000 - $59,999 | 215,819 | 150,152 | 43,589 | 63,531 | 42,380 |  |
| 13 | $60,000 - $74,999 | 101,192 | 38,625 | 41,381 | 64,343 | 41,964 |  |
| 14 | GE $75,000 | 151,906 | 62,639 | 55,918 | 100,750 | 55,451 |  |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |  |

#### 28. Income as Percent of Poverty Level POVPCT [Return to Index](#INDEX_2)

**DESCRIPTION**: This variable is defined by taking the family income, adjusted for inflation to 1990 dollars, and comparing it to the 1990 defined poverty level. Family size and number of children in the family determine the poverty threshold level. A categorical variable value is assigned according to the category of percent of poverty level as indicated below. All members of the family are assigned the same value of POVPCT.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Missing |  |  |  | 19,307 | 6,214 |
| 1 | LE 50% of the poverty level | 104,179 | 56,135 | 31,756 | 34,291 | 22,124 |
| 2 | GT 50% but LE 75% of the poverty level | 72,626 | 43,123 | 19,446 | 25,882 | 12,500 |
| 3 | GT 75% but LE 100% of the poverty level | 91,309 | 56,531 | 22,389 | 32,320 | 17,673 |
| 4 | GT 100% but LE 125% of the poverty level | 87,807 | 50,828 | 24,131 | 34,273 | 19,562 |
| 5 | GT 125% but LE 150% of the poverty level | 101,937 | 64,482 | 24,214 | 36,210 | 24,664 |
| 6 | GT 150% but LE 175% of the poverty level | 107,479 | 69,002 | 25,081 | 36,580 | 24,747 |
| 7 | GT 175% but LE 200% of the poverty level | 85,418 | 46,701 | 25,406 | 35,756 | 20,828 |
| 8 | GT 200% but LE 225% of the poverty level | 112,753 | 74,207 | 25,455 | 35,566 | 25,860 |
| 9 | GT 225% but LE 250% of the poverty level | 84,653 | 47,630 | 24,758 | 33,887 | 21,131 |
| 10 | GT 250% but LE 275% of the poverty level | 94,899 | 59,044 | 24,190 | 32,311 | 22,787 |
| 11 | GT 275% but LE 300% of the poverty level | 95,408 | 60,981 | 23,036 | 31,154 | 21,820 |
| 12 | GT 300% but LE 325% of the poverty level | 72,777 | 40,074 | 22,240 | 29,345 | 20,485 |
| 13 | GT 325% but LE 350% of the poverty level | 68,629 | 37,577 | 21,119 | 27,412 | 19,536 |
| 14 | GT 350% but LE 375% of the poverty level | 72,392 | 43,299 | 19,706 | 25,510 | 19,791 |
| 15 | GT 375% but LE 400% of the poverty level | 52,198 | 25,706 | 17,850 | 24,103 | 14,440 |
| 16 | GT 400% but LE 450% of the poverty level | 124,409 | 76,944 | 32,171 | 42,580 | 33,044 |
| 17 | GT 450% but LE 500% of the poverty level | 70,651 | 32,476 | 25,717 | 35,282 | 23,212 |
| 18 | GT 500% but LE 550% of the poverty level | 75,049 | 43,567 | 21,456 | 28,785 | 23,113 |
| 19 | GT 550% but LE 600% of the poverty level | 45,234 | 19,451 | 17,065 | 24,283 | 15,569 |
| 20 | GT 600% but LE 700% of the poverty level | 81,988 | 43,811 | 25,427 | 35,093 | 26,604 |
| 21 | GT 700% of the poverty level | 133,277 | 49,150 | 53,271 | 85,232 | 57,578 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**HEALTH INSURANCE VARIABLES**

#### 29. Health Insurance Status HISTATUS [Return to Index](#INDEX_2)

**DESCRIPTION**: Indicates whether person had health insurance coverage any time in the calendar year prior to the interview.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Not in universe | 577,765 | 577,765 | 0 | 0 | 102,036 |
| 0 | Person is not covered by an acceptable health insurance plan | 202,642 | 84,848 | 73,266 | 113,782 | 51,507 |
| 1 | Had insurance | 1,054,665 | 378,106 | 452,618 | 631,380 | 339,739 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 30. Health Insurance Type HITYPE

**DESCRIPTION**: This variable summarizes, in broad categories, the type of health insurance coverage that the person had at any time in the previous calendar year.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Not in universe, missing | 577,765 | 577,765 | 0 | 0 | 102,036 |
| 0 | Person is not covered by an acceptable health insurance plan | 202,478 | 84,848 | 73,266 | 113,618 | 51,448 |
| 1 | Medicare | 162,259 | 55,216 | 75,455 | 76,100 | 62,536 |
| 2 | Medicaid | 67,741 | 12,680 | 34,225 | 64,256 | 16,427 |
| 3 | ChampUS, ChampVA, VA health care, military/Indian health care, other governmental health care | 18,178 | 6,911 | 7,938 | 9,185 | 3,974 |
| 4 | Employer (as provider/as dependent), group coverage through an employer | 718,421 | 271,277 | 293,016 | 440,885 | 231,060 |
| 5 | Private (as provider/as dependent), private coverage not through an employer | 88,230 | 32,022 | 41,984 | 41,148 | 25,801 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**DEATH CERTIFICATE INFORMATION VARIABLES**

#### 31. Death Indicator INDDEA [Return to Index](#INDEX_2)

**DESCRIPTION**: An indicator variable identifying decedents in the file. Deaths occurred within the associated follow-up period for this file after the survey interview.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | | **File 11** | | **File 6a** | | **File 6b** | | **File 6c** | | **Tobacco use** | |
| 0 | Alive | 1,674,322 | | 993,789 | | 499,914 | | 720,729 | | 473,127 | |
| 1 | Dead | 160,750 | | 46,930 | | 25,970 | | 24,433 | | 20,155 | |
|  |  | 1,835,072 | | 1,040,719 | | 525,884 | | 745,162 | | 493,282 | |

#### 32. Cause of Death CAUSE113

**DESCRIPTION**: A recode of the underlying cause of death from the death certificate into 113 causes of death as defined by the National Center for Health Statistics. See [Appendix E](#APP_E)

Cause of death 10 (Syphilis) and cause of death 15 (HIV) were combined into cause of death 17 (other and unspecified infectious diseases).

#### 33. Length of Follow-up FOLLOW [Return to Index](#INDEX_2)

DESCRIPTION: The length of follow-up period in days.

Persons who were alive at the end of the 11 year follow-up for File 11 period are given a value of 4018, the maximum follow-up period considered. Persons who were alive at the end of the 6 year follow-up period, Files 6a, 6b, 6c are given a value of 2192, the maximum follow-up considered. Persons in the tobacco use file, tu, are given the maximum of 1827 or five years of followup.

CODES

1-4018 Full days between start of follow-up and death or the full days between start of follow-up and end of follow-up for those alive at the end of 11 years of follow-up.

1-2192 Full days between start of follow-up and death or the full days between start of follow-up and end of follow-up for those alive at the end of 6 years of follow-up.

1-1827 Full days between the start of smoking and death or the full days between start of follow-up and end of follow-up for those alive at the end of 5 years of follow-up.

#### 34. Day of Week of Death DAYOD

**DESCRIPTION**: The day of the week on which the decedent died.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Alive or missing | 1,674,322 | 993,789 | 499,914 | 720,730 | 473,129 |
| 1 | Sunday | 22,717 | 6,738 | 3,635 | 3,380 | 2,815 |
| 2 | Monday | 23,215 | 6,794 | 3,728 | 3,474 | 2,914 |
| 3 | Tuesday | 22,759 | 6,602 | 3,691 | 3,593 | 2,932 |
| 4 | Wednesday | 22,676 | 6,572 | 3,755 | 3,447 | 2,796 |
| 5 | Thursday | 22,939 | 6,576 | 3,747 | 3,339 | 2,809 |
| 6 | Friday | 23,133 | 6,826 | 3,697 | 3,725 | 3,000 |
| 7 | Saturday | 23,311 | 6,822 | 3,717 | 3,474 | 2,887 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 35. Hospital Type HOSP [Return to Index](#INDEX_2)

**DESCRIPTION**: Describes the place of death.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Alive or missing, blank, unknown, or illegible on death certificate | 1,677,278 | 994,078 | 500,163 | 722,689 | 474,151 |
| 1 | Entry on certificate includes hospital or medical center, or is a hospital clinic | 91,819 | 31,126 | 14,532 | 10,535 | 10,260 |
| 2 | Entry is a place other than a hospital or medical center, e.g. a nursing home, professional center, doctor's office, or clinic other than a hospital clinic | 25,142 | 4,886 | 4,049 | 3,886 | 3,026 |
| 3 | Entry includes the word "clinic" but does not indicate any connection to a hospital. | 170 | 20 | 0 | 152 | 59 |
| 4 | Entry is a street address (or home, or work, etc.) only. | 34,968 | 9,513 | 6,097 | 6,280 | 4,934 |
| 5 | Other entries that do not include the words "Hospital" or "Medical Center." | 5,308 | 1,031 | 1,043 | 1,301 | 780 |
| 6 | Hospice | 387 | 65 | 0 | 319 | 72 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 

#### 36. Hospital Death Indicator HOSPD [Return to Index](#INDEX_2)

**DESCRIPTION**: Indicates the location of death relative to a hospital. Response is determined from the death certificate. Certain states do not have this item on their certificate. For these states, a code of missing is assigned.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Codes** | | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| . | Alive or missing, blank, unable to determine, or illegible on death certificate | 1,689,898 | 1,003,189 | 500,167 | 722,689 | 474,597 |
| 1 | DOA (a special box must be present and marked on death certificate) | 4,994 | 2,270 | 735 | 253 | 394 |
| 2 | Inpatient | 67,297 | 19,763 | 11,588 | 8,720 | 8,084 |
| 3 | Outpatient/Emergency | 15,202 | 2,605 | 2,205 | 5,118 | 2,734 |
| 4 | Other hospital visit | 25 | 19 | 0 | 0 | 0 |
| 5 | Not in hospital | 57,656 | 12,873 | 11,189 | 8,382 | 7,473 |
|  |  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

#### 37. Indicator for Algorithmic Death INDALG [Return to Index](#INDEX_2)

**DESCRIPTION:**  In order to speed up the release of this public-use file, we have omitted the last step in the processing of a portion of the most recent match of NLMS records to the NDI. The process to finalize a match of NLMS records to the NDI usually involves an initial step to remove obvious false matches through a computerized screening algorithm. The second step of the process is a manual review of matches that were inconclusive based on the results from the computerized screening algorithm. By including the variable, INDALG, in analyses, the user can determine if there are any biases resulting from the omission of the last step during the most recent match to the NDI. The INDALG indicator classifies death status based only on the computerized screening algorithm from both recent and previous matches to the NDI.

Analyses are ordinarily conducted using the mortality outcome indicator, INDDEA. This indicator identifies mortality determined from both step 1 and 2 of the match resolution process for all prior matches up to the most recent match, but is based only on the computer screening process for the most recent match. This provides the maximum amount of mortality information currently available for analysis purposes.

By combining the variable, INDALG, with the mortality indicator, INDDEA, only the mortality determined through the computer screening algorithm would be used in the analyses. An example of an appropriate application would involve:

If (INDDEA = 1) and (INDALG=1) then INDMORT = 1.

Else INDMORT = 0. INDMORT now identifies mortality determined using the screening algorithm only with no follow-up manual review for any match processing. The new variable, INDMORT would be used in place of INDDEA for mortality indicator.

**CODES**

B1 - Fail edit, not match scored.

0 - Not dead based on computer screening algorithm (Includes algorithmic determinations of survival and determinations of death or survival resulting from manual adjudication).

1 - Death identified by computer screening algorithm only.

**NOTE:** This variable INDALG is not applicable to deaths prior to 1986.

#### CODES AND FREQUENCIES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Codes** | **File 11** | **File 6a** | **File 6b** | **File 6c** | **Tobacco use** |
| B1 | 1,486,313 | 818,583 | 425,449 | 702,002 | 420,607 |
| 0 | 47,328 | 31,188 | 10,732 | 4,712 | 13,887 |
| 1 | 301,431 | 190,948 | 89,703 | 38,448 | 58,788 |
|  | 1,835,072 | 1,040,719 | 525,884 | 745,162 | 493,282 |

**TOBACCO USE VARIABLES**

#### (These variables are available on tobacco use file, tu only)

#### 38. Smoked More than 100 Cigarettes SMOK100 [Return to Index](#INDEX_2)

**DESCRIPTION**: This variable is the response to the question: “Has [ person] smoked at least 100 cigarettes in his/her lifetime”.

#### CODES AND FREQUENCIES

|  |  |  |
| --- | --- | --- |
| **Codes** | | **Tobacco use** |
| 1 | Yes | 210,707 |
| 2 | No | 282,575 |
|  |  | 493,282 |

#### 39. Age Started Smoking AGESMK

**DESCRIPTION**: This variable is the response to the question: “How old was [ person] when he/she started smoking cigarettes fairly regularly?” In order to be included in the File tu, there must be a yes/no response to the question, variable 37.

#### 40. Cigarette Smoking Status SMOKSTAT

**DESCRIPTION**: This variable indicates the general quantity of cigarette smoking. This variable is a recode of several responses, so the variable is not a direct pickup of a response to a particular tobacco-use supplement item.

#### CODES AND FREQUENCIES

|  |  |  |
| --- | --- | --- |
| **Codes** | | **Tobacco use** |
| . | Missing, Don’t know, Refuse, or Not in universe | 587 |
| 1 | Never smoked cigarettes | 282,575 |
| 2 | An everyday smoker of cigarettes | 112,350 |
| 3 | Is a smoker of cigarettes on some days | 14,469 |
| 4 | Is a former smoker of cigarettes | 83,301 |
|  |  | 493,282 |

#### 41. Rules for Smoking Cigarettes in the Home SMOKHOME [Return to Index](#INDEX_2)

**DESCRIPTION**: This variable indicates the response to the question “Which statement best describes the rules about smoking [cigarettes] in your home?”

#### CODES AND FREQUENCIES

|  |  |  |
| --- | --- | --- |
| **Codes** | | **Tobacco use** |
| . | Missing, Don’t know, Refuse, or Not in universe | 221,251 |
|  |  |  |
| 1 | No one is allowed to smoke anywhere in the house | 165,999 |
| 2 | Smoking is allowed in some places or at some times | 52,378 |
| 3 | Smoking is permitted anywhere in the house at any time | 53,654 |
|  |  | 493,282 |

#### 

#### 42. Currently Use Smokeless Tobacco CURRUSE [Return to Index](#INDEX_2)

**DESCRIPTION**: This variable characterizes the information on CPS Tobacco use Supplements for current smokers, or those currently using tobacco products other than the smoking of cigarettes. This variable is a companion variable to the variable defined as EVERUSE, which characterizes the concept of ever use of tobacco products other than the smoking of cigarettes. The variable, CURRUSE, is a 5-digit character string in which each digit represents the current use response for other types of other tobacco use. Reading the digits from left to right, the individual digit components are:

1st digit, current user of any other tobacco option other than cigarettes

2nd digit, current user of pipes

3rd digit, current user of cigars

4th digit, current user of chewing tobacco

5th digit, current user of snuff

For each digit the possible response values are:

1 – a yes response to, are you a current user of this other tobacco-use option

2 – a no response to, are you a current user of this other tobacco-use option

9 – response is not eligible, that is, other survey questions have ruled out the possibility of a response to this item, or the response is missing for any reason.

#### CODES AND FREQUENCIES

|  |  |  |
| --- | --- | --- |
| **Codes** | | **Tobacco use** |
| Blank |  | 24,730 |
| 11111 |  | 30 |
| 11112 |  | 53 |
| 11121 |  | 7 |
| 11122 |  | 558 |
| 11211 |  | 13 |
| 11212 |  | 110 |
| 11221 |  | 45 |
| 11222 |  | 2,520 |
| 12111 |  | 51 |
| 12112 |  | 225 |
| 12121 |  | 65 |
| 12122 |  | 4,908 |
| 12211 |  | 371 |
| 12212 |  | 5,476 |
| 12221 |  | 3,241 |
| 12222 |  | 0 |
| 22222 |  | 415,560 |
| 99999 |  | 35,319 |
|  |  | 493,282 |

#### 43. Ever Use Smokeless Tobacco EVERUSE [Return to Index](#INDEX_2)

**DESCRIPTION**: This variable characterizes the information on CPS Tobacco use Supplements for “have you ever used tobacco other than the smoking of cigarettes”. This variable is a companion variable to the variable defined as CURRUSE, which characterizes the concept of current use of tobacco products other than the smoking of cigarettes. The variable, EVERUSE, is a 5-digit character string in which each digit represents a have used response for the various types of other tobacco uses that were surveyed. Reading the digits from left to right, the individual digit components are:

1st digit, has [ ] ever used any other tobacco option other than cigarettes

2nd digit, has [ ] ever used pipes

3rd digit, has [ ] ever used cigars

4th digit, has [ ] ever used chewing tobacco

5th digit, has [ ] ever used snuff

For each digit the possible response values are:

1 – a yes response to, has [ ] ever used this other tobacco-use option

2 – a no response to, has [ ] ever used this other tobacco-use option

9 – response is not eligible, that is, other survey questions have ruled out the possibility of a response to this item, or the response is missing for any reason.

#### CODES AND FREQUENCIES

|  |  |  |
| --- | --- | --- |
| **Codes** | | **Tobacco use** |
| Blank |  | 24,730 |
| 11111 |  | 2,481 |
| 11112 |  | 1,595 |
| 11121 |  | 243 |
| 11122 |  | 6,006 |
| 11211 |  | 329 |
| 11212 |  | 1,177 |
| 11221 |  | 392 |
| 11222 |  | 9,085 |
| 12111 |  | 314 |
| 12112 |  | 1,294 |
| 12121 |  | 334 |
| 12122 |  | 9,830 |
| 12211 |  | 941 |
| 12212 |  | 8,829 |
| 12221 |  | 4,406 |
| 12222 |  | 57 |
| 22222 |  | 385,920 |
| 99999 |  | 35,319 |
|  |  |  |
|  |  | 493,282 |

**APPENDICES**

[Return to Main TOC](#TOC)

1. [State Concatenated Codes](#APP_A)
2. [FIPSSTATE Codes](#APP_B)
3. [2007 Industrial Classification System](#APP_C)
4. [2000 Occupational Classification System](#APP_D)
5. [113 Causes of Death from ICD-10](#APP_E)

**Appendix A**

**STATE CONCATENATED CODES**

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **New-England Division** |  | **Middle Atlantic Division** |  | **East North Central Division** |  |
|  |  |  |  |  |  |
| Maine | 11 | New York | 21 | Ohio | 31 |
| New Hampshire | 12 | New Jersey | 22 | Indiana | 32 |
| Vermont | 13 | Pennsylvania | 23 | Illinois | 33 |
| Massachusetts | 14 |  |  | Michigan | 34 |
| Rhode Island | 15 |  |  | Wisconsin | 35 |
| Connecticut | 16 |  |  |  |  |
|  |  |  |  |  |  |
| **West North Central Division** |  | **South Atlantic Division** |  | **East South Central Division** |  |
|  |  |  |  |  |  |
| Minnesota | 41 | Delaware | 51 | Kentucky | 61 |
| Iowa | 42 | Maryland | 52 | Tennessee | 62 |
| Missouri | 43 | District of Columbia | 53 | Alabama | 63 |
| North Dakota | 44 | Virginia | 54 | Mississippi | 64 |
| South Dakota | 45 | West Virginia | 55 |  |  |
| Nebraska | 46 | North Carolina | 56 |  |  |
| Kansas | 47 | South Carolina | 57 |  |  |
|  |  | Georgia | 58 |  |  |
|  |  | Florida | 59 |  |  |
|  |  |  |  |  |  |
| **West South Central Division** |  | **Mountain Division** |  | **Pacific Division** |  |
|  |  |  |  |  |  |
| Arkansas | 71 | Montana | 81 | Washington | 91 |
| Louisiana | 72 | Idaho | 82 | Oregon | 92 |
| Oklahoma | 73 | Wyoming | 83 | California | 93 |
| Texas | 74 | Colorado | 84 | Alaska | 94 |
|  |  | New Mexico | 85 | Hawaii | 95 |
|  |  | Arizona | 86 |  |  |
|  |  | Utah | 87 |  |  |
|  |  | Nevada | 88 |  |  |

Appendix B

#### FIPSSTATE CODES

[Return to Appendix TOC](#APP_TOC) [Return to Main TOC](#TOC) [Return](#PlaceofBirth) to POB

901 — Alabama

902 — Alaska

904 — Arizona

905 — Arkansas

906 — California

908 — Colorado

909 — Connecticut

910 — Delaware

911 — District of Columbia

912 — Florida

913 — Georgia

915 — Hawaii

916 — Idaho

917 — Illinois

918 — Indiana

919 — Iowa

920 — Kansas

921 — Kentucky

922 — Louisiana

923 — Maine

924 — Maryland

925 — Massachusetts

926 — Michigan

927 — Minnesota

928 — Mississippi

929 — Missouri

930 — Montana

931 — Nebraska

932 — Nevada

933 — New Hampshire

934 — New Jersey

935 — New Mexico

936 — New York

937 — North Carolina

938 — North Dakota

939 — Ohio

940 — Oklahoma

941 — Oregon

942 — Pennsylvania

944 — Rhode Island

945 — South Carolina

946 — South Dakota

947 — Tennessee

948 — Texas

949 — Utah

950 — Vermont

951 — Virginia

953 — Washington

954 — West Virginia

955 — Wisconsin

956 — Wyoming

Appendix C

**2007 INDUSTRIAL CLASSIFICATION SYSTEM**

[Return to Appendix TOC](#_APPENDICES) [Return to Main TOC](#TOC)  [Return to IND](#_22._Major_Industry)

|  |  |  |
| --- | --- | --- |
| **INDUSTRY CODE CROSSWALK** | | |
|  |  |  |
| **2007 Census Code** | **Census 2007 Category Title** |  |
| 0170 | Crop production |  |
| 0180 | Animal production |  |
| 0190 | Forestry except logging |  |
| 0270 | Logging |  |
| 0280 | Fishing, hunting and trapping |  |
| 0290 | Support activities for agriculture and forestry |  |
| 0370 | Oil and gas extraction |  |
| 0380 | Coal mining |  |
| 0390 | Metal ore mining |  |
| 0470 | Nonmetallic mineral mining and quarrying |  |
| 0480 | Not specified type of mining |  |
| 0490 | Support activities for mining |  |
| 0570 | Electric power generation, transmission and distribution |  |
| 0580 | Natural gas distribution |  |
| 0590 | Electric and gas, and other combinations |  |
| 0670 | Water, steam, air-conditioning, and irrigation systems |  |
| 0680 | Sewage treatment facilities |  |
| 0690 | Not specified utilities |  |
| 0770 | Construction (the cleaning of buildings and dwellings is incidental during construction and immediately after construction) |  |
| 1070 | Animal food, grain and oilseed milling |  |
| 1080 | Sugar and confectionery products |  |
| 1090 | Fruit and vegetable preserving and specialty food manufacturing |  |
| 1170 | Dairy product manufacturing |  |
| 1180 | Animal slaughtering and processing |  |
| 1190 | Retail bakeries |  |
| 1270 | Bakeries, except retail |  |
| 1280 | Seafood and other miscellaneous foods, n.e.c. |  |
| 1290 | Not specified food industries |  |
| 1370 | Beverage manufacturing |  |
| 1390 | Tobacco manufacturing |  |
| 1470 | Fiber, yarn, and thread mills |  |
| 1480 | Fabric mills, except knitting mills |  |
| 1490 | Textile and fabric finishing and fabric coating mills |  |
| 1570 | Carpet and rug mills |  |
| 1590 | Textile product mills, except carpet and rug |  |
| 1670 | Knitting fabric mills, and apparel knitting mills |  |
| 1680 | Cut and sew apparel manufacturing |  |
| 1690 | Apparel accessories and other apparel manufacturing |  |
| 1770 | Footwear manufacturing |  |
| 1790 | Leather tanning and finishing and other allied products manufacturing |  |
| 1870 | Pulp, paper, and paperboard mills |  |
| 1880 | Paperboard containers and boxes |  |
| 1890 | Miscellaneous paper and pulp products |  |
| 1990 | Printing and related support activities |  |
| 2070 | Petroleum refining |  |
| 2090 | Miscellaneous petroleum and coal products |  |
| 2170 | Resin, synthetic rubber, and fibers and filaments manufacturing |  |
| 2180 | Agricultural chemical manufacturing |  |
| 2190 | Pharmaceutical and medicine manufacturing |  |
| 2270 | Paint, coating, and adhesive manufacturing |  |
| 2280 | Soap, cleaning compound, and cosmetics manufacturing |  |
| 2290 | Industrial and miscellaneous chemicals |  |
| 2370 | Plastics product manufacturing |  |
| 2380 | Tire manufacturing |  |
| 2390 | Rubber products, except tires, manufacturing |  |
| 2470 | Pottery, ceramics, and plumbing fixture manufacturing |  |
| 2480 | Structural clay product manufacturing |  |
| 2490 | Glass and glass product manufacturing |  |
| 2570 | Cement, concrete, lime, and gypsum product manufacturing |  |
| 2590 | Miscellaneous nonmetallic mineral product manufacturing |  |
| 2670 | Iron and steel mills and steel product manufacturing |  |
| 2680 | Aluminum production and processing |  |
| 2690 | Nonferrous metal (except aluminum) production and processing |  |
| 2770 | Foundries |  |
| 2780 | Metal forgings and stampings |  |
| 2790 | Cutlery and hand tool manufacturing |  |
| 2870 | Structural metals, and boiler, tank, and shipping container manufacturing |  |
| 2880 | Machine shops; turned product; screw, nut, and bolt manufacturing |  |
| 2890 | Coating, engraving, heat treating, and allied activities |  |
| 2970 | Ordnance |  |
| 2980 | Miscellaneous fabricated metal products manufacturing |  |
| 2990 | Not specified metal industries |  |
| 3070 | Agricultural implement manufacturing |  |
| 3080 | Construction, and mining and oil and gas field machinery manufacturing |  |
| 3090 | Commercial and service industry machinery manufacturing |  |
| 3170 | Metalworking machinery manufacturing |  |
| 3180 | Engines, turbines, and power transmission equipment manufacturing |  |
| 3190 | Machinery manufacturing, n.e.c. |  |
| 3290 | Not specified machinery manufacturing |  |
| 3360 | Computer and peripheral equipment manufacturing |  |
| 3370 | Communications, and audio and video equipment manufacturing |  |
| 3380 | Navigational, measuring, electromedical, and control instruments manufacturing |  |
| 3390 | Electronic component and product manufacturing, n.e.c. |  |
| 3470 | Household appliance manufacturing |  |
| 3490 | Electric lighting and electrical equipment manufacturing, and other electrical component manufacturing, n.e.c. |  |
| 3570 | Motor vehicles and motor vehicle equipment manufacturing |  |
| 3580 | Aircraft and parts manufacturing |  |
| 3590 | Aerospace products and parts manufacturing |  |
| 3670 | Railroad rolling stock manufacturing |  |
| 3680 | Ship and boat building |  |
| 3690 | Other transportation equipment manufacturing |  |
| 3770 | Sawmills and wood preservation |  |
| 3780 | Veneer, plywood, and engineered wood products |  |
| 3790 | Prefabricated wood buildings and mobile homes manufacturing |  |
| 3870 | Miscellaneous wood product manufacturing |  |
| 3890 | Furniture and related product manufacturing |  |
| 3960 | Medical equipment and supplies manufacturing |  |
| 3970 | Sporting and athletic goods, and doll, toy and game manufacturing |  |
| 3980 | Miscellaneous manufacturing, n.e.c. |  |
| 3990 | Not specified manufacturing industries |  |
| 4070 | Motor vehicles, parts and supplies merchant wholesalers |  |
| 4080 | Furniture and home furnishing merchant wholesalers |  |
| 4090 | Lumber and other construction materials merchant wholesalers |  |
| 4170 | Professional and commercial equipment and supplies merchant wholesalers |  |
| 4180 | Metals and minerals, except petroleum, merchant wholesalers |  |
| 4190 | Electrical and electronic goods merchant wholesalers |  |
| 4260 | Hardware, plumbing and heating equipment, and supplies merchant wholesalers |  |
| 4270 | Machinery, equipment, and supplies merchant wholesalers |  |
| 4280 | Recyclable material merchant wholesalers |  |
| 4290 | Miscellaneous durable goods merchant wholesalers |  |
| 4370 | Paper and paper products merchant wholesalers |  |
| 4380 | Drugs, sundries, and chemical and allied products merchant wholesalers |  |
| 4390 | Apparel, fabrics, and notions merchant wholesalers |  |
| 4470 | Groceries and related products merchant wholesalers |  |
| 4480 | Farm product raw materials merchant wholesalers |  |
| 4490 | Petroleum and petroleum products merchant wholesalers |  |
| 4560 | Alcoholic beverages merchant wholesalers |  |
| 4570 | Farm supplies merchant wholesalers |  |
| 4580 | Miscellaneous nondurable goods merchant wholesalers |  |
| 4585 | Wholesale electronic markets and agents and brokers |  |
| 4590 | Not specified wholesale trade |  |
| 4670 | Automobile dealers |  |
| 4680 | Other motor vehicle dealers |  |
| 4690 | Auto parts, accessories, and tire stores |  |
| 4770 | Furniture and home furnishings stores |  |
| 4780 | Household appliance stores |  |
| 4790 | Radio, TV, and computer stores |  |
| 4870 | Building material and supplies dealers |  |
| 4880 | Hardware stores |  |
| 4890 | Lawn and garden equipment and supplies stores |  |
| 4970 | Grocery stores |  |
| 4980 | Specialty food stores |  |
| 4990 | Beer, wine, and liquor stores |  |
| 5070 | Pharmacies and drug stores |  |
| 5080 | Health and personal care, except drug, stores |  |
| 5090 | Gasoline stations |  |
| 5170 | Clothing stores |  |
| 5180 | Shoe stores |  |
| 5190 | Jewelry, luggage, and leather goods stores |  |
| 5270 | Sporting goods, camera, and hobby and toy stores |  |
| 5280 | Sewing, needlework, and piece goods stores |  |
| 5290 | Music stores |  |
| 5370 | Book stores and news dealers |  |
| 5380 | Department stores and discount stores |  |
| 5390 | Miscellaneous general merchandise stores |  |
| 5470 | Retail florists |  |
| 5480 | Office supplies and stationery stores |  |
| 5490 | Used merchandise stores |  |
| 5570 | Gift, novelty, and souvenir shops |  |
| 5580 | Miscellaneous retail stores |  |
| 5590 | Electronic shopping |  |
| 5591 | Electronic auctions |  |
| 5592 | Mail order houses |  |
| 5670 | Vending machine operators |  |
| 5680 | Fuel dealers |  |
| 5690 | Other direct selling establishments |  |
| 5790 | Not specified retail trade |  |
| 6070 | Air transportation |  |
| 6080 | Rail transportation |  |
| 6090 | Water transportation |  |
| 6170 | Truck transportation |  |
| 6180 | Bus service and urban transit |  |
| 6190 | Taxi and limousine service |  |
| 6270 | Pipeline transportation |  |
| 6280 | Scenic and sightseeing transportation |  |
| 6290 | Services incidental to transportation |  |
| 6370 | Postal Service |  |
| 6380 | Couriers and messengers |  |
| 6390 | Warehousing and storage |  |
| 6470 | Newspaper publishers |  |
| 6480 | Periodical, book, and directory publishers |  |
| 6490 | Software publishers |  |
| 6570 | Motion pictures and video industries |  |
| 6590 | Sound recording industries |  |
| 6670 | Radio and television broadcasting and cable subscription programming |  |
| 6672 | Internet publishing and broadcasting and web search portals |  |
| 6680 | Wired telecommunications carriers |  |
| 6690 | Other telecommunications services |  |
| 6770 | Libraries and archives |  |
| 6780 | Other information services |  |
| 6695 | Data processing, hosting, and related services |  |
| 6870 | Banking and related activities |  |
| 6880 | Savings institutions, including credit unions |  |
| 6890 | Non-depository credit and related activities |  |
| 6970 | Securities, commodities, funds, trusts, and other financial investments |  |
| 6990 | Insurance carriers and related activities |  |
| 7070 | Real estate |  |
| 7080 | Automotive equipment rental and leasing |  |
| 7170 | Video tape and disk rental |  |
| 7180 | Other consumer goods rental |  |
| 7190 | Commercial, industrial, and other intangible assets rental and leasing |  |
| 7270 | Legal services |  |
| 7280 | Accounting, tax preparation, bookkeeping, and payroll services |  |
| 7290 | Architectural, engineering, and related services |  |
| 7370 | Specialized design services |  |
| 7380 | Computer systems design and related services |  |
| 7390 | Management, scientific, and technical consulting services |  |
| 7460 | Scientific research and development services |  |
| 7470 | Advertising and related services |  |
| 7480 | Veterinary services |  |
| 7490 | Other professional, scientific, and technical services |  |
| 7570 | Management of companies and enterprises |  |
| 7580 | Employment services |  |
| 7590 | Business support services |  |
| 7670 | Travel arrangements and reservation services |  |
| 7680 | Investigation and security services |  |
| 7690 | Services to buildings and dwellings (except cleaning during construction and immediately after construction) |  |
| 7770 | Landscaping services |  |
| 7780 | Other administrative and other support services |  |
| 7790 | Waste management and remediation services |  |
| 7860 | Elementary and secondary schools |  |
| 7870 | Colleges and universities, including junior colleges |  |
| 7880 | Business, technical, and trade schools and training |  |
| 7890 | Other schools and instruction, and educational support services |  |
| 7970 | Offices of physicians |  |
| 7980 | Offices of dentists |  |
| 7990 | Offices of chiropractors |  |
| 8070 | Offices of optometrists |  |
| 8080 | Offices of other health practitioners |  |
| 8090 | Outpatient care centers |  |
| 8170 | Home health care services |  |
| 8180 | Other health care services |  |
| 8190 | Hospitals |  |
| 8270 | Nursing care facilities |  |
| 8290 | Residential care facilities, without nursing |  |
| 8370 | Individual and family services |  |
| 8380 | Community food and housing, and emergency services |  |
| 8390 | Vocational rehabilitation services |  |
| 8470 | Child day care services |  |
| 8560 | Independent artists, performing arts, spectator sports, and related industries |  |
| 8570 | Museums, art galleries, historical sites, and similar institutions |  |
| 8580 | Bowling centers |  |
| 8590 | Other amusement, gambling, and recreation industries |  |
| 8660 | Traveler accommodation |  |
| 8670 | Recreational vehicle parks and camps, and rooming and boarding houses |  |
| 8680 | Restaurants and other food services |  |
| 8690 | Drinking places, alcoholic beverages |  |
| 8770 | Automotive repair and maintenance |  |
| 8780 | Car washes |  |
| 8790 | Electronic and precision equipment repair and maintenance |  |
| 8870 | Commercial and industrial machinery and equipment repair and maintenance |  |
| 8880 | Personal and household goods repair and maintenance |  |
| 8890 | Footwear and leather goods repair |  |
| 8970 | Barber shops |  |
| 8980 | Beauty salons |  |
| 8990 | Nail salons and other personal care services |  |
| 9070 | Drycleaning and laundry services |  |
| 9080 | Funeral homes, and cemeteries and crematories |  |
| 9090 | Other personal services |  |
| 9160 | Religious organizations |  |
| 9170 | Civic, social, advocacy organizations, and grantmaking and giving services |  |
| 9180 | Labor unions |  |
| 9190 | Business, professional, political, and similar organizations |  |
| 9290 | Private households |  |
| 9370 | Executive offices and legislative bodies |  |
| 9380 | Public finance activities |  |
| 9390 | Other general government and support |  |
| 9470 | Justice, public order, and safety activities |  |
| 9480 | Administration of human resource programs |  |
| 9490 | Administration of environmental quality and housing programs |  |
| 9570 | Administration of economic programs and space research |  |
| 9590 | National security and international affairs |  |
| 9670 | U. S. Army |  |
| 9680 | U. S. Air Force |  |
| 9690 | U. S. Navy |  |
| 9770 | U. S. Marines |  |
| 9780 | U. S. Coast Guard |  |
| 9790 | Armed Forces, Branch not specified |  |
| 9870 | Military Reserves or National Guard |  |
| 9920 | Unemployed and last worked five years ago or earlier or never worked |  |

**Appendix D**

**2000 OCCUPATIONAL CLASSIFICATION SYSTEM**

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|  |  |
| --- | --- |
| **2000 Occupation Code** | **Occupation Category** |
| 0010 | Chief Executives |
| 0020 | General and Operations Managers |
| 0030 | Legislators |
| 0040 | Advertising and Promotions Managers |
| 0050 | Marketing and Sales Managers |
| 0060 | Public Relations Managers |
| 0010 | Administrative Services Managers |
| 0110 | Computer and Information Systems Managers |
| 0210 | Financial Managers |
| 0310 | Human Resources Managers |
| 0410 | Industrial Production Managers |
| 0510 | Purchasing Managers |
| 0610 | Transportation, Storage, and Distribution Managers |
| 0200 | Farm, Ranch, and Other Agricultural Managers |
| 0210 | Farmers and Ranchers |
| 0220 | Construction Managers |
| 0230 | Education Administrators |
| 0300 | Engineering Managers |
| 0310 | Food Service Managers |
| 0320 | Funeral Directors |
| 0330 | Gaming Managers |
| 0340 | Lodging Managers |
| 0350 | Medical and Health Services Managers |
| 0360 | Natural Sciences Managers |
| 0400 | Postmasters and Mail Superintendents |
| 0410 | Property, Real Estate, and Community Association Managers |
| 0420 | Social and Community Service Managers |
| 0430 | Managers, All Other |
| 0500 | Agents and Business Managers of Artists, Performers, and Athletes |
| 0510 | Purchasing Agents and Buyers, Farm Products |
| 0520 | Wholesale and Retail Buyers, Except Farm Products |

|  |  |
| --- | --- |
| 0530 | Purchasing Agents, Except Wholesale, Retail, and Farm Products |
| 0540 | Claims Adjusters, Appraisers, Examiners, and Investigators |
| 0560 | Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation |
| 0600 | Cost Estimators |
| 0620 | Human Resources, Training, and Labor Relations Specialists |
| 0700 | Logisticians |
| 0710 | Management Analysts |
| 0720 | Meeting and Convention Planners |
| 0730 | Other Business Operations Specialists |
| 0800 | Accountants and Auditors |
| 0810 | Appraisers and Assessors of Real Estate |
| 0820 | Budget Analysts |
| 0830 | Credit Analysts |
| 0840 | Financial Analysts |
| 0850 | Personal Financial Advisors |
| 0860 | Insurance Underwriters |
| 0900 | Financial Examiners |
| 0910 | Loan Counselors and Officers |
| 0930 | Tax Examiners, Collectors, and Revenue Agents |
| 0940 | Tax Preparers |
| 0950 | Financial Specialists, All Other |
| 1000 | Computer Scientists and Systems Analysts |
| 1010 | Computer Programmers |
| 1020 | Computer Software Engineers |
| 1040 | Computer Support Specialists |
| 1060 | Database Administrators |
| 1100 | Network and Computer Systems Administrators |
| 1110 | Network Systems and Data Communications Analysts |
| 1200 | Actuaries |
| 1210 | Mathematicians |
| 1220 | Operations Research Analysts |
| 1230 | Statisticians |
| 1240 | Miscellaneous Mathematical Occupations |
| 1300 | Architects, Except Naval |
| 1310 | Surveyors, Cartographers, and Photogrammetrists |
| 1320 | Aerospace Engineers |
| 1330 | Agricultural Engineers |
| 1340 | Biomedical Engineers |
| 1350 | Chemical Engineers |
| 1360 | Civil Engineers |
| 1400 | Computer Hardware Engineers |
| 1410 | Electrical and Electronics Engineers |
| 1420 | Environmental Engineers |
| 1430 | Industrial Engineers, Including Health and Safety |
| 1440 | Marine Engineers and Naval Architects |
| 1450 | Materials Engineers |
| 1460 | Mechanical Engineers |
| 1500 | Mining and Geological Engineers, Including Mining Safety Engineers |
| 1510 | Nuclear Engineers |
| 1520 | Petroleum Engineers |
| 1530 | Engineers, All Other |
| 1540 | Drafters |
| 1550 | Engineering Technicians, Except Drafters |
| 1560 | Surveying and Mapping Technicians |
| 1600 | Agricultural and Food Scientists |
| 1610 | Biological Scientists |
| 1640 | Conservation Scientists and Foresters |
| 1650 | Medical Scientists |
| 1700 | Astronomers and Physicists |
| 1710 | Atmospheric and Space Scientists |
| 1720 | Chemists and Materials Scientists |
| 1740 | Environmental Scientists and Geoscientists |
| 1760 | Physical Scientists, All Other |
| 1800 | Economists |
| 1810 | Market and Survey Researchers |
| 1820 | Psychologists |
| 1830 | Sociologists |
| 1840 | Urban and Regional Planners |
| 1860 | Miscellaneous Social Scientists and Related Workers |
| 1900 | Agricultural and Food Science Technicians |
| 1910 | Biological Technicians |
| 1920 | Chemical Technicians |
| 1930 | Geological and Petroleum Technicians |
| 1940 | Nuclear Technicians |
| 1960 | Other Life, Physical, and Social Science Technicians |
| 2000 | Counselors |
| 2010 | Social Workers |
| 2020 | Miscellaneous Community and Social Service Specialists |
| 2040 | Clergy |
| 2050 | Directors, Religious Activities and Education |
| 2060 | Religious Workers, All Other |
| 2100 | Lawyers |
| 2110 | Judges, Magistrates, and Other Judicial Workers |
| 2140 | Paralegals and Legal Assistants |
| 2150 | Miscellaneous Legal Support Workers |
| 2200 | Postsecondary Teachers |
| 2300 | Preschool and Kindergarten Teachers |
| 2310 | Elementary and Middle School Teachers |
| 2320 | Secondary School Teachers |
| 2330 | Special Education Teachers |
| 2340 | Other Teachers and Instructors |
| 2400 | Archivists, Curators, and Museum Technicians |
| 2430 | Librarians |
| 2440 | Library Technicians |
| 2540 | Teacher Assistants |
| 2550 | Other Education, Training, and Library Workers |
| 2600 | Artists and Related Workers |
| 2630 | Designers |
| 2700 | Actors |
| 2710 | Producers and Directors |
| 2720 | Athletes, Coaches, Umpires, and Related Workers |
| 2740 | Dancers and Choreographers |
| 2750 | Musicians, Singers, and Related Workers |
| 2760 | Entertainers and Performers, Sports and Related Workers, All Other |
| 2800 | Announcers |
| 2810 | News Analysts, Reporters and Correspondents |
| 2820 | Public Relations Specialists |
| 2830 | Editors |
| 2840 | Technical Writers |
| 2850 | Writers and Authors |
| 2860 | Miscellaneous Media and Communication Workers |
| 2900 | Broadcast and Sound Engineering Technicians and Radio Operators |
| 2910 | Photographers |
| 2920 | Television, Video, and Motion Picture Camera Operators and Editors |
| 2960 | Media and Communication Equipment Workers, All Other |
| 3000 | Chiropractors |
| 3010 | Dentists |
| 3030 | Dietitians and Nutritionists |
| 3040 | Optometrists |
| 3050 | Pharmacists |
| 3060 | Physicians and Surgeons |
| 3110 | Physician Assistants |
| 3120 | Podiatrists |
| 3130 | Registered Nurses |
| 3140 | Audiologists |
| 3150 | Occupational Therapists |
| 3160 | Physical Therapists |
| 3200 | Radiation Therapists |
| 3210 | Recreational Therapists |
| 3220 | Respiratory Therapists |
| 3230 | Speech-Language Pathologists |
| 3240 | Therapists, All Other |
| 3250 | Veterinarians |
| 3260 | Health Diagnosing and Treating Practitioners, All Other |
| 3300 | Clinical Laboratory Technologists and Technicians |
| 3310 | Dental Hygienists |
| 3320 | Diagnostic Related Technologists and Technicians |
| 3400 | Emergency Medical Technicians and Paramedics |
| 3410 | Health Diagnosing and Treating Practitioner Support Technicians |
| 3500 | Licensed Practical and Licensed Vocational Nurses |
| 3510 | Medical Records and Health Information Technicians |
| 3520 | Opticians, Dispensing |
| 3530 | Miscellaneous Health Technologists and Technicians |
| 3540 | Other Healthcare Practitioners and Technical Occupations |
| 3600 | Nursing, Psychiatric, and Home Health Aides |
| 3610 | Occupational Therapist Assistants and Aides |
| 3620 | Physical Therapist Assistants and Aides |
| 3630 | Massage Therapists |
| 3640 | Dental Assistants |
| 3650 | Medical Assistants and Other Healthcare Support Occupations |
| 3700 | First-Line Supervisors/Managers of Correctional Officers |
| 3710 | First-Line Supervisors/Managers of Police and Detectives |
| 3720 | First-Line Supervisors/Managers of Fire Fighting and Prevention Workers |
| 3730 | Supervisors, Protective Service Workers, All Other |
| 3740 | Fire Fighters |
| 3750 | Fire Inspectors |
| 3800 | Bailiffs, Correctional Officers, and Jailers |
| 3820 | Detectives and Criminal Investigators |
| 3830 | Fish and Game Wardens |
| 3840 | Parking Enforcement Workers |
| 3850 | Police and Sheriff's Patrol Officers |
| 3860 | Transit and Railroad Police |
| 3900 | Animal Control Workers |
| 3910 | Private Detectives and Investigators |
| 3920 | Security Guards and Gaming Surveillance Officers |
| 3940 | Crossing Guards |
| 3950 | Lifeguards and Other Protective Service Workers |
| 4000 | Chefs and Head Cooks |
| 4010 | First-Line Supervisors/Managers of Food Preparation and Serving Workers |
| 4020 | Cooks |
| 4030 | Food Preparation Workers |
| 4040 | Bartenders |
| 4050 | Combined Food Preparation and Serving Workers, Including Fast Food |
| 4060 | Counter Attendants, Cafeteria, Food Concession, and Coffee Shop |
| 4110 | Waiters and Waitresses |
| 4120 | Food Servers, Nonrestaurant |
| 4130 | Dining Room and Cafeteria Attendants and Bartender Helpers |
| 4140 | Dishwashers |
| 4150 | Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop |
| 4160 | Food Preparation and Serving Related Workers, All Other |
| 4200 | First-Line Supervisors/Managers of Housekeeping and Janitorial Workers |
| 4210 | First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers |
| 4220 | Janitors and Building Cleaners |
| 4230 | Maids and Housekeeping Cleaners |
| 4240 | Pest Control Workers |
| 4250 | Grounds Maintenance Workers |
| 4300 | First-Line Supervisors/Managers of Gaming Workers |
| 4320 | First-Line Supervisors/Managers of Personal Service Workers |
| 4340 | Animal Trainers |
| 4350 | Nonfarm Animal Caretakers |
| 4400 | Gaming Services Workers |
| 4410 | Motion Picture Projectionists |
| 4420 | Ushers, Lobby Attendants, and Ticket Takers |
| 4430 | Miscellaneous Entertainment Attendants and Related Workers |
| 4460 | Funeral Service Workers |
| 4500 | Barbers |
| 4510 | Hairdressers, Hairstylists, and Cosmetologists |
| 4520 | Miscellaneous Personal Appearance Workers |
| 4530 | Baggage Porters, Bellhops, and Concierges |
| 4540 | Tour and Travel Guides |
| 4550 | Transportation Attendants |
| 4600 | Child Care Workers |
| 4610 | Personal and Home Care Aides |
| 4620 | Recreation and Fitness Workers |
| 4640 | Residential Advisors |
| 4650 | Personal Care and Service Workers, All Other |
| 4700 | First-Line Supervisors/Managers of Retail Sales Workers |
| 4710 | First-Line Supervisors/Managers of Non-Retail Sales Workers |
| 4720 | Cashiers |
| 4740 | Counter and Rental Clerks |
| 4750 | Parts Salespersons |
| 4760 | Retail Salespersons |
| 4800 | Advertising Sales Agents |
| 4810 | Insurance Sales Agents |
| 4820 | Securities, Commodities, and Financial Services Sales Agents |
| 4830 | Travel Agents |
| 4840 | Sales Representatives, Services, All Other |
| 4850 | Sales Representatives, Wholesale and Manufacturing |
| 4900 | Models, Demonstrators, and Product Promoters |
| 4920 | Real Estate Brokers and Sales Agents |
| 4930 | Sales Engineers |
| 4940 | Telemarketers |
| 4950 | Door-To-Door Sales Workers, News and Street Vendors, and Related Workers |
| 4960 | Sales and Related Workers, All Other |
| 5000 | First-Line Supervisors/Managers of Office and Administrative Support Workers |
| 5010 | Switchboard Operators, Including Answering Service |
| 5020 | Telephone Operators |
| 5030 | Communications Equipment Operators, All Other |
| 5100 | Bill and Account Collectors |
| 5110 | Billing and Posting Clerks and Machine Operators |
| 5120 | Bookkeeping, Accounting, and Auditing Clerks |
| 5130 | Gaming Cage Workers |
| 5140 | Payroll and Timekeeping Clerks |
| 5150 | Procurement Clerks |
| 5160 | Tellers |
| 5200 | Brokerage Clerks |
| 5210 | Correspondence Clerks |
| 5220 | Court, Municipal, and License Clerks |
| 5230 | Credit Authorizers, Checkers, and Clerks |
| 5240 | Customer Service Representatives |
| 5250 | Eligibility Interviewers, Government Programs |
| 5260 | File Clerks |
| 5300 | Hotel, Motel, and Resort Desk Clerks |
| 5310 | Interviewers, Except Eligibility and Loan |
| 5320 | Library Assistants, Clerical |
| 5330 | Loan Interviewers and Clerks |
| 5340 | New Accounts Clerks |
| 5350 | Order Clerks |
| 5360 | Human Resources Assistants, Except Payroll and Timekeeping |
| 5400 | Receptionists and Information Clerks |
| 5410 | Reservation and Transportation Ticket Agents and Travel Clerks |
| 5420 | Information and Record Clerks, All Other |
| 5500 | Cargo and Freight Agents |
| 5510 | Couriers and Messengers |
| 5520 | Dispatchers |
| 5530 | Meter Readers, Utilities |
| 5540 | Postal Service Clerks |
| 5550 | Postal Service Mail Carriers |
| 5560 | Postal Service Mail Sorters, Processors, and Processing Machine Operators |
| 5600 | Production, Planning, and Expediting Clerks |
| 5610 | Shipping, Receiving, and Traffic Clerks |
| 5620 | Stock Clerks and Order Fillers |
| 5630 | Weighers, Measurers, Checkers, and Samplers, Recordkeeping |
| 5700 | Secretaries and Administrative Assistants |
| 5800 | Computer Operators |
| 5810 | Data Entry Keyers |
| 5820 | Word Processors and Typists |
| 5830 | Desktop Publishers |
| 5840 | Insurance Claims and Policy Processing Clerks |
| 5850 | Mail Clerks and Mail Machine Operators, Except Postal Service |
| 5860 | Office Clerks, General |
| 5900 | Office Machine Operators, Except Computer |
| 5910 | Proofreaders and Copy Markers |
| 5920 | Statistical Assistants |
| 5930 | Office and Administrative Support Workers, All Other |
| 6000 | First-Line Supervisors/Managers/Contractors of Farming, Fishing, and Forestry Workers |
| 6010 | Agricultural Inspectors |
| 6020 | Animal Breeders |
| 6040 | Graders and Sorters, Agricultural Products |
| 6050 | Other Agricultural Workers |
| 6100 | Fishers and Related Fishing Workers |
| 6110 | Hunters and Trappers |
| 6120 | Forest and Conservation Workers |
| 6130 | Logging Workers |
| 6200 | First-Line Supervisors/Managers of Construction Trades and Extraction Workers |
| 6210 | Boilermakers |
| 6220 | Brickmasons, Blockmasons, and Stonemasons |
| 6230 | Carpenters |
| 6240 | Carpet, Floor, and Tile Installers and Finishers |
| 6250 | Cement Masons, Concrete Finishers, and Terrazzo Workers |
| 6260 | Construction Laborers |
| 6300 | Paving, Surfacing, and Tamping Equipment Operators |
| 6310 | Pile-Driver Operators |
| 6320 | Operating Engineers and Other Construction Equipment Operators |
| 6330 | Drywall Installers, Ceiling Tile Installers, and Tapers |
| 6350 | Electricians |
| 6360 | Glaziers |
| 6400 | Insulation Workers |
| 6420 | Painters, Construction and Maintenance |
| 6430 | Paperhangers |
| 6440 | Pipelayers, Plumbers, Pipefitters, and Steamfitters |
| 6460 | Plasterers and Stucco Masons |
| 6500 | Reinforcing Iron and Rebar Workers |
| 6510 | Roofers |
| 6520 | Sheet Metal Workers |
| 6530 | Structural Iron and Steel Workers |
| 6600 | Helpers, Construction Trades |
| 6660 | Construction and Building Inspectors |
| 6700 | Elevator Installers and Repairers |
| 6710 | Fence Erectors |
| 6720 | Hazardous Materials Removal Workers |
| 6730 | Highway Maintenance Workers |
| 6740 | Rail-Track Laying and Maintenance Equipment Operators |
| 6750 | Septic Tank Servicers and Sewer Pipe Cleaners |
| 6760 | Miscellaneous Construction and Related Workers |
| 6800 | Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining |
| 6820 | Earth Drillers, Except Oil and Gas |
| 6830 | Explosives Workers, Ordnance Handling Experts, and Blasters |
| 6840 | Mining Machine Operators |
| 6910 | Roof Bolters, Mining |
| 6920 | Roustabouts, Oil and Gas |
| 6930 | Helpers--Extraction Workers |
| 6940 | Other Extraction Workers |
| 7000 | First-Line Supervisors/Managers of Mechanics, Installers, and Repairers |
| 7010 | Computer, Automated Teller, and Office Machine Repairers |
| 7020 | Radio and Telecommunications Equipment Installers and Repairers |
| 7030 | Avionics Technicians |
| 7040 | Electric Motor, Power Tool, and Related Repairers |
| 7050 | Electrical and Electronics Installers and Repairers, Transportation Equipment |
| 7100 | Electrical and Electronics Repairers, Industrial and Utility |
| 7110 | Electronic Equipment Installers and Repairers, Motor Vehicles |
| 7120 | Electronic Home Entertainment Equipment Installers and Repairers |
| 7130 | Security and Fire Alarm Systems Installers |
| 7140 | Aircraft Mechanics and Service Technicians |
| 7150 | Automotive Body and Related Repairers |
| 7160 | Automotive Glass Installers and Repairers |
| 7200 | Automotive Service Technicians and Mechanics |
| 7210 | Bus and Truck Mechanics and Diesel Engine Specialists |
| 7220 | Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics |
| 7240 | Small Engine Mechanics |
| 7260 | Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers |
| 7300 | Control and Valve Installers and Repairers |
| 7310 | Heating, Air Conditioning, and Refrigeration Mechanics and Installers |
| 7320 | Home Appliance Repairers |
| 7330 | Industrial and Refractory Machinery Mechanics |
| 7340 | Maintenance and Repair Workers, General |
| 7350 | Maintenance Workers, Machinery |
| 7360 | Millwrights |
| 7410 | Electrical Power-Line Installers and Repairers |
| 7420 | Telecommunications Line Installers and Repairers |
| 7430 | Precision Instrument and Equipment Repairers |
| 7510 | Coin, Vending, and Amusement Machine Servicers and Repairers |
| 7520 | Commercial Divers |
| 7540 | Locksmiths and Safe Repairers |
| 7550 | Manufactured Building and Mobile Home Installers |
| 7560 | Riggers |
| 7600 | Signal and Track Switch Repairers |
| 7610 | Helpers--Installation, Maintenance, and Repair Workers |
| 7620 | Other Installation, Maintenance, and Repair Workers |
| 7700 | First-Line Supervisors/Managers of Production and Operating Workers |
| 7710 | Aircraft Structure, Surfaces, Rigging, and Systems Assemblers |
| 7720 | Electrical, Electronics, and Electromechanical Assemblers |
| 7730 | Engine and Other Machine Assemblers |
| 7740 | Structural Metal Fabricators and Fitters |
| 7750 | Miscellaneous Assemblers and Fabricators |
| 7800 | Bakers |
| 7810 | Butchers and Other Meat, Poultry, and Fish Processing Workers |
| 7830 | Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders |
| 7840 | Food Batchmakers |
| 7850 | Food Cooking Machine Operators and Tenders |
| 7900 | Computer Control Programmers and Operators |
| 7920 | Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic |
| 7930 | Forging Machine Setters, Operators, and Tenders, Metal and Plastic |
| 7940 | Rolling Machine Setters, Operators, and Tenders, Metal and Plastic |
| 7950 | Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic |
| 7960 | Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 8000 | Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 8010 | Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 8020 | Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic |
| 8030 | Machinists |
| 8040 | Metal Furnace and Kiln Operators and Tenders |
| 8060 | Model Makers and Patternmakers, Metal and Plastic |
| 8100 | Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic |
| 8120 | Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 8130 | Tool and Die Makers |
| 8140 | Welding, Soldering, and Brazing Workers |
| 8150 | Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic |
| 8160 | Lay-Out Workers, Metal and Plastic |
| 8200 | Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic |
| 8210 | Tool Grinders, Filers, and Sharpeners |
| 8220 | Metalworkers and Plastic Workers, All Other |
| 8230 | Bookbinders and Bindery Workers |
| 8240 | Job Printers |
| 8250 | Prepress Technicians and Workers |
| 8260 | Printing Machine Operators |
| 8300 | Laundry and Dry-Cleaning Workers |
| 8310 | Pressers, Textile, Garment, and Related Materials |
| 8320 | Sewing Machine Operators |
| 8330 | Shoe and Leather Workers and Repairers |
| 8340 | Shoe Machine Operators and Tenders |
| 8350 | Tailors, Dressmakers, and Sewers |
| 8360 | Textile Bleaching and Dyeing Machine Operators and Tenders |
| 8400 | Textile Cutting Machine Setters, Operators, and Tenders |
| 8410 | Textile Knitting and Weaving Machine Setters, Operators, and Tenders |
| 8420 | Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders |
| 8430 | Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers |
| 8440 | Fabric and Apparel Patternmakers |
| 8450 | Upholsterers |
| 8460 | Textile, Apparel, and Furnishings Workers, All Other |
| 8500 | Cabinetmakers and Bench Carpenters |
| 8510 | Furniture Finishers |
| 8520 | Model Makers and Patternmakers, Wood |
| 8530 | Sawing Machine Setters, Operators, and Tenders, Wood |
| 8540 | Woodworking Machine Setters, Operators, and Tenders, Except Sawing |
| 8550 | Woodworkers, All Other |
| 8600 | Power Plant Operators, Distributors, and Dispatchers |
| 8610 | Stationary Engineers and Boiler Operators |
| 8620 | Water and Liquid Waste Treatment Plant and System Operators |
| 8630 | Miscellaneous Plant and System Operators |
| 8640 | Chemical Processing Machine Setters, Operators, and Tenders |
| 8650 | Crushing, Grinding, Polishing, Mixing, and Blending Workers |
| 8710 | Cutting Workers |
| 8720 | Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders |
| 8730 | Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders |
| 8740 | Inspectors, Testers, Sorters, Samplers, and Weighers |
| 8750 | Jewelers and Precious Stone and Metal Workers |
| 8760 | Medical, Dental, and Ophthalmic Laboratory Technicians |
| 8800 | Packaging and Filling Machine Operators and Tenders |
| 8810 | Painting Workers |
| 8830 | Photographic Process Workers and Processing Machine Operators |
| 8840 | Semiconductor Processors |
| 8850 | Cementing and Gluing Machine Operators and Tenders |
| 8860 | Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders |
| 8900 | Cooling and Freezing Equipment Operators and Tenders |
| 8910 | Etchers and Engravers |
| 8920 | Molders, Shapers, and Casters, Except Metal and Plastic |
| 8930 | Paper Goods Machine Setters, Operators, and Tenders |
| 8940 | Tire Builders |
| 8950 | Helpers--Production Workers |
| 8960 | Production Workers, All Other |
| 9000 | Supervisors, Transportation and Material Moving Workers |
| 9030 | Aircraft Pilots and Flight Engineers |
| 9040 | Air Traffic Controllers and Airfield Operations Specialists |
| 9110 | Ambulance Drivers and Attendants, Except Emergency Medical Technicians |
| 9120 | Bus Drivers |
| 9130 | Driver/Sales Workers and Truck Drivers |
| 9140 | Taxi Drivers and Chauffeurs |
| 9150 | Motor Vehicle Operators, All Other |
| 9200 | Locomotive Engineers and Operators |
| 9230 | Railroad Brake, Signal, and Switch Operators |
| 9240 | Railroad Conductors and Yardmasters |
| 9260 | Subway, Streetcar, and Other Rail Transportation Workers |
| 9300 | Sailors and Marine Oilers |
| 9310 | Ship and Boat Captains and Operators |
| 9330 | Ship Engineers |
| 9340 | Bridge and Lock Tenders |
| 9350 | Parking Lot Attendants |
| 9360 | Service Station Attendants |
| 9410 | Transportation Inspectors |
| 9420 | Other Transportation Workers |
| 9500 | Conveyor Operators and Tenders |
| 9510 | Crane and Tower Operators |
| 9520 | Dredge, Excavating, and Loading Machine Operators |
| 9560 | Hoist and Winch Operators |
| 9600 | Industrial Truck and Tractor Operators |
| 9610 | Cleaners of Vehicles and Equipment |
| 9620 | Laborers and Freight, Stock, and Material Movers, Hand |
| 9630 | Machine Feeders and Offbearers |
| 9640 | Packers and Packagers, Hand |
| 9650 | Pumping Station Operators |
| 9720 | Refuse and Recyclable Material Collectors |
| 9730 | Shuttle Car Operators |
| 9740 | Tank Car, Truck, and Ship Loaders |
| 9750 | Material Moving Workers, All Other |
| 9800 | Military Officer Special and Tactical Operations Leaders/Managers |
| 9810 | First-Line Enlisted Military Supervisors/Managers |
| 9820 | Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members |
| 9830 | Military, Rank Not Specified |

Appendix E

#### NCHS 113 CAUSES OF DEATH FROM ICD-10

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In 1992 the CDC’s National Center for Health Statistics published a standardized list of 113 selected causes of death, for the general analysis of ICD–10 mortality statistics and for ranking leading causes of death. Source: [www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49\_11.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_11.pdf)

|  |  |
| --- | --- |
| 1 | Salmonella infections |
| 2 | Shigellosis and amebiasis |
| 3 | Certain other intestinal infections |
| 4 | Respiratory tuberculosis |
| 5 | Other tuberculosis |
| 6 | Whooping cough |
| 7 | Scarlet fever and erysipelas |
| 8 | Meningococcal infection |
| 9 | Septicemia |
| 10 | Syphilis |
| 11 | Acute poliomyelitis |
| 12 | Arthropod-borne viral encephalitis |
| 13 | Measles |
| 14 | Viral hepatitis |
| 15 | Human immunodeficiency virus (HIV) disease |
| 16 | Malaria |
| 17 | Other and unspecified infectious and parasitic diseases and their sequelae |
| 18 | Malignant neoplasms of lip, oral cavity and pharynx |
| 19 | Malignant neoplasm of esophagus |
| 20 | Malignant neoplasm of stomach |
| 21 | Malignant neoplasms of colon, rectum and anus |
| 22 | Malignant neoplasms of liver and intrahepatic bile ducts |
| 23 | Malignant neoplasm of pancreas |
| 24 | Malignant neoplasm of larynx |
| 25 | Malignant neoplasms of trachea, bronchus and lung |
| 26 | Malignant melanoma of skin |
| 27 | Malignant neoplasm of breast |
| 28 | Malignant neoplasm of cervix uteri |
| 29 | Malignant neoplasms of corpus uteri and uterus, part unspecified |
| 30 | Malignant neoplasm of ovary |
| 31 | Malignant neoplasm of prostate |
| 32 | Malignant neoplasms of kidney and renal pelvis |
| 33 | Malignant neoplasm of bladder |
| 34 | Malignant neoplasms of meninges, brain and other parts of central nervous system |
| 35 | Hodgkin's disease |
| 36 | Non-Hodgkin's lymphoma |
| 37 | Leukemia |
| 38 | Multiple myeloma and immunoproliferative neoplasms |
| 39 | Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue |
| 40 | All other and unspecified malignant neoplasms |
| 41 | In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior |
| 42 | Anemias |
| 43 | Diabetes mellitus |
| 44 | Malnutrition |
| 45 | Other nutritional deficiencies |
| 46 | Meningitis |
| 47 | Parkinson's disease |
| 48 | Alzheimer's disease |
| 49 | Acute rheumatic fever and chronic rheumatic heart diseases |
| 50 | Hypertensive heart disease |
| 51 | Hypertensive heart and renal disease |
| 52 | Acute myocardial infarction |
| 53 | Other acute ischemic heart diseases |
| 54 | Atherosclerotic cardiovascular disease, so described |
| 55 | All other forms of chronic ischemic heart disease |
| 56 | Acute and subacute endocarditis |
| 57 | Diseases of pericardium and acute myocarditis |
| 58 | Heart failure |
| 59 | All other forms of heart disease |
| 60 | Essential (primary) hypertension and hypertensive renal disease |
| 61 | Cerebrovascular diseases |
| 62 | Atherosclerosis |
| 63 | Aortic aneurysm and dissection |
| 64 | Other diseases of arteries, arterioles and capillaries |
| 65 | Other disorders of circulatory system |
| 66 | Influenza |
| 67 | Pneumonia |
| 68 | Acute bronchitis and bronchiolitis |
| 69 | Unspecified acute lower respiratory infection |
| 70 | Bronchitis, chronic and unspecified |
| 71 | Emphysema |
| 72 | Asthma |
| 73 | Other chronic lower respiratory diseases |
| 74 | Pneumoconioses and chemical effects |
| 75 | Pneumonitis due to solids and liquids |
| 76 | Other diseases of respiratory system |
| 77 | Peptic ulcer |
| 78 | Diseases of appendix |
| 79 | Hernia |
| 80 | Alcoholic liver disease |
| 81 | Other chronic liver disease and cirrhosis |
| 82 | Cholelithiasis and other disorders of gallbladder |
| 83 | Acute and rapidly progressive nephritic and nephrotic syndrome |
| 84 | Chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and  renal sclerosis unspecified |
| 85 | Renal failure |
| 86 | Other disorders of kidney |
| 87 | Infections of kidney |
| 88 | Hyperplasia of prostate |
| 89 | Inflammatory diseases of female pelvic organs |
| 90 | Pregnancy with abortive outcome |
| 91 | Other complications of pregnancy, childbirth and the puerperium |
| 92 | Certain conditions originating in the perinatal period |
| 93 | Congenital malformations, deformations and chromosomal abnormalities |
| 94 | Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified |
| 95 | All other diseases (Residual) |
| 96 | Motor vehicle crash |
| 97 | Unintentional injury: Other land transport |
| 98 | Unintentional injury: Water, air and space, and other transport |
| 99 | Falls |
| 100 | Accidental discharge of firearms |
| 101 | Accidental drowning and submersion |
| 102 | Accidental exposure to smoke, fire and flames |
| 103 | Accidental poisoning and exposure to noxious substances |
| 104 | Other and unspecified nontransport accidents and their sequelae |
| 105 | Intentional self-harm (suicide) by discharge of firearms |
| 106 | Intentional self-harm (suicide) by other and unspecified means and their sequelae |
| 107 | Assault (homicide) by discharge of firearms |
| 108 | Assault (homicide) by other and unspecified means and their sequelae |
| 109 | Legal intervention |
| 110 | Discharge of firearms, undetermined intent |
| 111 | Other and unspecified events of undetermined intent and their sequelae |
| 112 | Operations of war and their sequelae |
| 113 | Complications of medical and surgical care |