Tobacco

Longitudinal [Jump to Index](#INDEX1)

Mortality

Study

Analysis File

Reference Manual, Public Version 1.0

Mortality Follow-up 1985–2019

DRB Approval Number: CBDRB-FY23-528

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**Reference Manual**

**for**

**Tobacco Longitudinal Mortality Study**

**Analysis File**

**Version 1.0**

**INTRODUCTION**

The Tobacco Longitudinal Mortality Study (TLMS) is a national, longitudinal mortality study with an emphasis on tobacco use. The purpose of the TLMS is to permit research on the effects of demographic characteristics and tobacco-use habits on differentials in U.S. mortality rates. The study is sponsored by the U.S. Food and Drug Administration, the National Cancer Institute, the National Heart, Lung, and Blood Institute, the National Institute on Aging, the National Center for Health Statistics, and the U.S. Census Bureau.

The TLMS consists of U.S. Census Bureau data from Current Population Survey Tobacco Use Supplements (CPS-TUS) combined with death certificate information identifying mortality status and cause of death. The Tobacco Use Supplements are conducted periodically as part of the CPS. They collect information on the use, or former use, of various tobacco products, as well as attempts to quit such use. The study currently consists of more than 1.6 million records with over 240,000 identified mortality cases.

This unique research database is based on a complex stratified sample of the non-institutionalized population of the United States. The extent of the Tobacco Use Supplement variables available offers researchers the potential to answer a variety of important questions on the impact of tobacco use on mortality rate differentials not covered as extensively by other databases.

The TLMS consists of CPS Tobacco Use Supplements covering the period from September 1985 through July 2018, 26 cohorts in all. Mortality information is obtained from death certificates available for deceased persons using the National Death Index, a database of collected death certificate information for all deceased persons in the United States beginning January 1, 1979. The database is housed at the National Center for Health Statistics. Important TLMS variables available for analyses are standard demographic variables such as education, family income, and employment status combined with an extensive list of tobacco-use variables and death certificate information, including cause of death.

This documentation identifies a subset of variables from the Tobacco Use Supplement files for use in the TLMS analysis file. The variables documented in this manual were selected by study sponsors to be of immediate interest for currently identified scientific and public health research and for their potential importance in a wide variety of future research options.

**Files used in the Design of the TLMS**

The development of the TLMS started with identifying all the available tobacco supplement data that existed at the U.S. Census Bureau. In 1985 and 1989, two surveys associated with the CPS asked a limited number of tobacco questions. The 1985 CPS United States Immunization and Smoking Survey was one of these. From our work with a separate study, the National Longitudinal Mortality Study (NLMS), the U.S. Census Bureau had access to data collected from the September 1985 survey, including previously identified mortality. Those data were included as a cohort in the TLMS.

Formal Current Population Survey Tobacco Use Supplements started in 1992 and continue periodically to this day. The U.S. Census Bureau has archived CPS-TUS dating back only to 1998 (21 TLMS cohorts ranging from 1998–2018).

Again because of our work with the NLMS, the U.S. Census Bureau has access to data collected for the CPS-ASEC (Annual Social and Economic Supplement) when those samples overlapped with the samples from 1992–1996 CPS-TUS. These overlapping records, including previously identified mortality, are included in the TLMS for four additional TLMS cohorts.

The collection of all of these sources of data with mortality information from the NDI make up the 26 TLMS cohorts which are the core of the study.

**Description of the TLMS File Structure**

TLMS records are stored on individual files, one analysis file for each TLMS cohort. The data collected for each cohort vary depending on the interests of the Tobacco Use Supplement sponsor(s) at the time the supplement was conducted. As a result, the questions and tobacco products of interest involved in the surveys vary over time. An important feature of the TLMS is the harmonization of responses to specific tobacco use questions across the cohorts so that cohorts can be combined for analysis purposes.

The following table lists all the individual tobacco use supplement cohorts that, when combined, comprise the full TLMS analysis database. For each file, we identify the total number of cohort records and break the total into alive, deceased, and ineligible.

Ineligible TLMS records are those that lack pertinent tobacco-use information, demographic information, independence, or necessary prerequisites to determine mortality outcomes to be useful for statistical analyses purposes.

Table 1. Cohort Notation

| **Cohort name** | **File name** | **No. of records** | **Alive** | **Deceased** | **Ineligible** | **Earlier of two files\*** |
| --- | --- | --- | --- | --- | --- | --- |
| 198509 | SEP85 | 145,000 | 77,000 | 25,500 | 42,000 | 150 |
| 199301 | JAN93 | 33,500 | 20,500 | 9,700 | 3,200 | 80 |
| 199305 | MAY93 | 32,000 | 18,500 | 9,000 | 4,200 | 50 |
| 199601 | JAN96 | 34,000 | 25,000 | 8,600 | 150 | 60 |
| 199605 | MAY96 | 34,000 | 25,500 | 8,200 | 150 | 60 |
| 199809 | SEP98 | 94,500 | 73,500 | 16,000 | 3,600 | 1,400 |
| 199901 | JAN99 | 94,500 | 72,500 | 10,500 | 2,400 | 9,300 |
| 199905 | MAY99 | 94,000 | 71,500 | 10,500 | 3,100 | 9,000 |
| 200001 | JAN00 | 58,500 | 46,000 | 10,000 | 2,500 | 70 |
| 200005 | MAY00 | 57,500 | 45,000 | 6,100 | 2,500 | 3,900 |
| 200106 | JUN01 | 54,000 | 29,000 | 7,600 | 17,500 | 80 |
| 200111 | NOV01 | 111,000 | 87,000 | 19,500 | 4,100 | 150 |
| 200202 | FEB02 | 82,000 | 64,000 | 8,600 | 3,100 | 5,900 |
| 200302 | FEB03 | 50,500 | 40,000 | 7,400 | 2,900 | 60 |
| 200306 | JUN03 | 110,000 | 87,000 | 18,000 | 5,000 | 90 |
| 200311 | NOV03 | 109,000 | 87,000 | 17,000 | 4,800 | 70 |
| 200605 | MAY06 | 107,000 | 87,500 | 14,000 | 5,700 | 80 |
| 200608 | AUG06 | 81,000 | 66,000 | 10,500 | 4,700 | 30 |
| 200701 | JAN07 | 100,000 | 82,000 | 13,000 | 4,900 | 20 |
| 201005 | MAY10 | 108,000 | 87,000 | 9,900 | 11,500 | 40 |
| 201008 | AUG10 | 81,000 | 64,000 | 7,100 | 9,800 | 30 |
| 201101 | JAN11 | 109,000 | 85,500 | 8,200 | 15,000 | <15 |
| 201407 | JUL14 | 101,000 | 87,500 | 4,600 | 8,100 | 750 |
| 201501 | JAN15 | 102,000 | 88,500 | 4,800 | 8,500 | <15 |
| 201505 | MAY15 | 83,500 | 72,000 | 3,500 | 7,500 | . |
| 201807 | JUL18 | 94,000 | 84,000 | 1,200 | 9,000 | . |
| **Total** |  | 2,160,000 | 1,670,000 | 269,000 | 186,000 | 31,500 |

\*When records from different cohorts match to the same death certificate,

we identify those that are the earlier, as they should not be used for survival studies

The purpose of this Reference Manual is to document the TLMS, describing the variables available to researchers for analysis and collecting and documenting important information relevant to the characteristics and features of the longitudinal database. A brief description and a summary of useful information about each variable is provided. An Index is located [here](#INDEX1) to navigate to the page on which the information for each variable is given. Included in the Index are hyperlinks, indicated by an underline format, that allow the user to navigate to each variable description page and return to the Index.

Each variable page has the following components, when practical:

*Variable Name:*

Long phrase description followed by a shortened name for programming purposes

*Description:*

A full description including any important features of the variable that are relevant for analysis or programming purposes. An example of this would be a description of the way the variable AGE is defined, given the various ways that age can be determined from the information the respondent provided or information collected from the match to the NDI.

*Category of Tobacco/Alternate Tobacco Users Asked:*

This describes the user’s frequency of use (every day, some-day, former, etc.) of tobacco or alternate tobacco products. (CIGNOW is used to define tobacco smoker types)

*Tobacco Use Supplement Type of Respondent:*

Indicates whether the information collected is from the respondent directly (self) or on behalf of another in the household (proxy)

*Question(s):*

The actual question(s) from the survey as presented to the respondent.

Note: For each of the tobacco-related questions, a respondent may have been asked a different variation of the same basic question. For example, these variations often depend on whether the referent person is an every day, some-day, or former smoker. Also, these variations can change as a result of sponsors or survey experts adjusting wording of the question from cohort to cohort.

*SAS Variable Type:*

Indicates whether the SAS variable type is numeric or character

*SAS Variable Format:*

Format of the SAS variable

*Cohorts Available:*

Indicates which CPS-TUS cohorts support the indicated variable. Survey questions may have been added, removed, or modified over time.

*Valid Codes:*

Indicates the meaning of the values associated with the variable.

*Frequency Table:*

Usually, this table shows the frequencies for the various valid responses for the variable over the various cohorts for which the variable exists.

**TLMS Records Eligible for Analysis**

A CPS-TUS record is eligible for analysis if it satisfies both of the following criteria:

Criterion A:

It must have a “yes” or “no” response to either one or both of the following questions on tobacco use:

*“Has \_\_\_\_\_\_ ever smoked 100 cigarettes or more in his/her lifetime?”*

OR

*“Has \_\_\_\_\_\_ ever used other forms of tobacco such as, pipe, cigar, chewing tobacco, etc.?”*

Criterion B:

* It must have a valid age
* It must have a valid sex
* It must have available the necessary prerequisites to determine mortality outcomes

**Discussion of Duplicates due to Sample Design**

The CPS are samples of households. That is, if a household is selected to be in sample then information is collected on all persons in the selected household. According to the survey design, a household enters the sample, is sampled for four successive months, is not in sample for another eight months, and then returns to sample for four more successive months—a four-months-in, eight-months-out, four-months-in sampling pattern.

*A Complicating Issue for the Tobacco Use Supplements in the TLMS*

Tobacco use supplements were added to the CPS when current information on tobacco use was of interest and funds were available. As a result, tobacco use supplements have been conducted sporadically over the years. In some cases, in keeping with the 4/8/4 sampling pattern, a tobacco use supplement survey was intentionally conducted on the same month a year later than a previously administered tobacco use supplement, to provide the opportunity to directly observe changes in tobacco habits during a one-year period. In such cases, there would be many households in the earlier month in sample that are resampled a year later, potentially creating duplicate interviews of the same person. This would result in not all records in the TLMS being independent of each other. For survival analyses purposes, the existence of duplicates would mean that the person involved must have survived the one-year period after the first interview to be able to take the second interview. For non-duplicate records, the person may have died during the one-year interim between interviews, they may have moved out of the household, or the entire original household may have moved out of the sampled housing unit.

From an analytical point of view, the possibility of the existence of duplicates in TLMS presents a dilemma. Survival analyses assumes that, at the beginning of a follow-up interval, all objects have the same initial probability of surviving the interval. On an individual cohort basis, this is a valid assumption for each of the TLMS cohorts taken separately. However, when the cohorts are combined to form the TLMS, duplicates are identified, and the initial probability of survival for an individual is then not equal across the earlier cohort. The probability of surviving the first year of follow-up is 1 for all duplicate records and less than 1, but equal, across all non-duplicated records in the earlier cohort.

There are two choices to deal with this dilemma. For the duplicate cases, either the first interview of the person can be maintained in the TLMS or the second one. There are arguments to be made in favor of either choice. For the construction of the TLMS analysis file, we maintain the first interview only; the second interview is ignored. That is, the second interview is treated as if it had not been conducted.

**Harmonization of Geographical Variables**

The CPS sample design is a two-stage design, where the first stage is comprised of PSUs (primary sampling units). These areas change in geography approximately every 10 years and as a result can NOT be harmonized.

In addition, some PSUs are self representing, in that the units within them have a 100% chance of selection while other PSUs are non-self representing. For those interested in more information, please reference the relevant CPS Technical Paper(s).[[1]](#footnote-1)

**Discussion of Weighting**

The TLMS analytical population must account for all tobacco supplement information collected. To account for the information in each CPS-TUS cohort, records that are not eligible for analysis must have their weight redistributed to the remaining TLMS eligible records within the cohort.

Reweighting a cohort is a multi-step process that can be summarized as follows:

1. Identify grouping variables that partition a cohort.

* age group BY race (white, non-white) BY sex (male, female)
* Hispanic status (Y/N) BY Hispanic age group
* state of residence

1. Identify the TLMS non-institutional U.S. population for the full cohort, restricted according to Criterion A of the **TLMS Records Eligible for Analysis** section.
2. For each level of the categorized variables identified in step 1, using the original supplement weights, determine the non-institutional U.S. population for the full cohort restricted to the TLMS population of interest as defined by Criterion A of the **TLMS Records Eligible for Analysis** section.
3. For the various levels of the Hispanic status grouping variables, see second bullet of Step 1, ratio adjust Hispanic status BY Hispanic age group cells, the weighted frequencies of the TLMS eligible records to the corresponding weighted frequencies of the full TLMS U.S. non-institutional population weighted frequencies identified in step 3.
4. By “raking,” ratio adjust the TLMS eligible records from step 4.
   1. First by ratio adjusting the weighted age BY sex BY race category cell frequencies to the corresponding full TLMS U.S. non-institutional population weighted by the age BY sex BY race category cell frequencies identified in step 4 above.
   2. Then, ratio adjust the resulting weights from the age BY sex BY race category adjustments by state of residence weighted frequencies to the corresponding full TLMS U.S. non-institutional population weighted records by state of residence.
   3. Repeat steps a. then b. (rake) until the cell frequencies by the age BY sex BY race categories then by state of residence converge for the eligible TLMS records to the full TLMS population weighted frequencies. For the reweighting of the TLMS cohorts, the number of rakes (repeat of step a. followed by b.) required was 4.

**Combining TLMS Cohorts for Analysis Purposes**

The TLMS consists of the 26 identified cohorts that are be combined to form an analytical database for research purposes under the assumption that each cohort is an independent sample of the U.S. population. Combining samples to form an analytical database increases the power of statistical procedures used to address specific research interests.

Initially, each of the 26 TLMS cohorts is weighted separately to represent the full U.S. tobacco-use population that existed at the time of the survey. Initial cohort weights reflect both sample size and the U.S. population size at the time of survey. When the cohorts are combined for analytical purposes, an adjustment must be made to account for the differing sample sizes and differing U.S. population sizes involved. A SAS macro named “TLMS\_WTADJUST” has been developed to reweight the initial cohort weights and account for the varying cohort sample sizes and differing U.S. population sizes.

There are three options available in this macro to determine the final population-size weighting appropriate for the combined set of cohorts involved in an analysis:

1. The final population weight for the combination of the cohorts involved is a reweighting of the original cohort population weights to give a final population weight that is the average of the cohort population weights.
2. The combined population represented is reweighted to a researcher-requested total population size (e.g., 100,000 or 250,000,000).
3. The combined population size represented is a reweighting of the original population weights to the total sample size, that is, the total number of records of all cohorts included in the analysis database.

**Confidentiality of TLMS Data**

The assurance of confidentiality of Census Bureau data is provided by Title 13 of the United States Code (U.S.C.). As such, TLMS operational procedures carefully follow the well-defined practices designed to maintain the confidentiality of personal records as required by Title 13. These practices include the prevention of disclosure through the elimination of sparse cells in publications, the prohibited release of small-area geographical information on the TLMS public-use files, the use of an individually assigned TLMS control number to identify records instead of the use of personal identifiers for these purposes, and the restriction of persons having direct access to the TLMS database. A violation of Title 13 restrictions includes loss of job and assessment of severe penalties including a prison term of up to 5 years and/or fines of up to $250,000, for any individual found guilty of releasing confidential information. In addition, any data acquired from an external agency for TLMS purposes are acquired under the same strict confidentiality protections and practices of Title 13.

**Disclosure Review (Public version ONLY)**

All frequency tables in this document have been rounded to be consistent with the Disclosure Review Board standards at the time of publication.

Any opinions and conclusions expressed herein are those of the author and do not represent the views of the U.S. Census Bureau. The Census Bureau has ensured appropriate access and use of confidential data and has reviewed these results for disclosure avoidance protection (Project 7506875: CBDRB-FY23-528).

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**ANALYSIS FILE**

**Variable Descriptions and Codes**

**Tobacco Use Supplement ID** **TLMSID**  [Return to Index](#INDEX1)

**DESCRIPTION:** Unique identification number for each record in TLMS.

Note: A person may have more than one TLMSID if they are interviewed more than once (TLMSID is unique to a person within a single cohort). This may occur when the person moves to a new household that is then picked up in a future survey.

SAS Type: CHAR

SAS Format: $10.

**COHORTS AVAILABLE:** All cohorts

**Cohort ID** **COHORTID** [Return to Index](#INDEX1)

**DESCRIPTION:** Identification used to differentiate which CPS-TUS survey a record originated. The structure starts with the 3 letter month followed by the last 2 digits of the year.

Note: A separate variable, COHORT, exists on the database as a 4 digit year followed by a 2 digit month. This variable may be helpful when attempting to chronologically sort output. COHORTID is used to reference the cohort throughout the manual, for readability.

SAS Type: CHAR

SAS Format: $5

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| sep85-jul18 — | Cohort range |

**FREQUENCIES:**

cohortid:

sep85 145,000

jan93 33,500

may93 32,000

jan96 34,000

may96 34,000

sep98 94,500

jan99 94,500

may99 94,000

jan00 58,500

may00 57,500

jun01 54,000

nov01 111,000

feb02 82,000

feb03 50,500

jun03 110,000

nov03 109,000

may06 107,000

aug06 81,000

jan07 100,000

may10 108,000

aug10 81,000

jan11 109,000

jul14 101,000

jan15 102,000

may15 83,500

jul18 94,000

Total 2,160,000

**Household Identification Number** **HHID** [Return to Index](#INDEX1)

**DESCRIPTION:** The household identification number consists of the cohort appended to a unique six-digit number assigned to every household within the cohort.

SAS Type: CHAR

SAS Format: $10

**COHORTS AVAILABLE:** All cohorts

**Start Date** **START** [Return to Index](#INDEX1)

**DESCRIPTION:** START is the start date or date of follow-up for the cohort. Generally, the start date for TLMS purposes is the last day of the two-week interview period. The beginning of the interview period is determined by the week containing the 19th of the month.

For some records in 1993–1996, those records contain information from two different interview periods; one in the month where the CPS-TUS was conducted and another where the ASEC (Annual Social and Economic supplement) was conducted. In these cases, START is determined by the later interview. In the table below these “two-interview period” instances are shown in bold font.

If a household member dies before the start date, they are not included in the TLMS

SAS Type: NUM (SAS DATE)

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 21SEP85–24JUL18 — | Date in DD MON YY format |

**FREQUENCIES:**

start:

21SEP85 102,000

**27JAN93 12,500**

**23MAR93 17,500**

26MAY93 27,500

**24JAN96 15,500**

**26MAR96 18,500**

29MAY96 33,500

22SEP98 79,000

26JAN99 70,500

25MAY99 68,000

25JAN00 50,500

23MAY00 45,000

26JUN01 30,500

27NOV01 90,000

26FEB02 62,000

24FEB03 41,000

24JUN03 88,500

25NOV03 89,000

23MAY06 84,000

22AUG06 64,500

23JAN07 83,000

25MAY10 82,500

24AUG10 61,000

25JAN11 80,000

22JUL14 74,500

27JAN15 76,500

26MAY15 60,000

24JUL18 58,500

Total 1,670,000

**Death Indicator in 2019 Match** **IND\_2019** [Return to Index](#INDEX1)

**DESCRIPTION:** Indicates whether the record was identified as a death at the beginning of the TLMS study. Some mortality is carried over from records in the previous NLMS study while most records are based on the results of the match to the NDI through 2019.

Some records are ineligible for analysis in the TLMS:

* Records that do not have enough information to fulfill the eligibility criteria for the NDI match
* Records missing sex or age
* Records excluded from NLMS prior to TLMS development
* Records where the respondent was less than 15 years old
* Records where the person took the interview and was identified as deceased before the start of follow-up (before the value in START)

Note: The totals for IND\_2019 (and IND\_TLMS) are larger than the other variables in this manual as they are not restricted to the universe of analysis file records.

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES (ONLY RECORDS WITH A VALUE OF 2 OR 3 ARE ELIGIBLE FOR ANALYSIS)** | |
| 1 — | Records that are ineligible for analysis in TLMS (includes special fail edits from NLMS) | |
| **2 —** | **Record matched to a death certificate (deceased) and is eligible to be matched to the NDI** | |
| **3 —** | **Record remains eligible to match to future NDI matches (alive)** | |
| 4 — | Earlier of two files (When records from different cohorts match to the same death certificate, we identify those that are the earlier, as they should not be used for survival studies) | |

**FREQUENCIES:**

ind\_2019: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

1 42,000 3,200 4,200 150 150 3,600 2,400 3,100 2,500 2,500

2 25,500 9,700 9,000 8,600 8,200 16,000 10,500 10,500 10,000 6,100

3 77,000 20,500 18,500 25,000 25,500 73,500 72,500 71,500 46,000 45,000

4 150 80 50 60 60 1,400 9,300 9,000 70 3,900

Total 145,000 33,500 32,000 34,000 34,000 94,500 94,500 94,000 58,500 57,500

ind\_2019: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

1 17,500 4,100 3,100 2,900 5,000 4,800 5,700 4,700 4,900 11,500

2 7,600 19,500 8,600 7,400 18,000 17,000 14,000 10,500 13,000 9,900

3 29,000 87,000 64,000 40,000 87,000 87,000 87,500 66,000 82,000 87,000

4 80 150 5,900 60 90 70 80 30 20 40

Total 54,000 111,000 82,000 50,500 110,000 109,000 107,000 81,000 100,000 108,000

ind\_2019: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

1 9,800 15,000 8,100 8,500 7,500 9,000

2 7,100 8,200 4,600 4,800 3,500 1,200

3 64,000 85,500 87,500 88,500 72,000 84,000

4 30 <15 750 <15 . .

Total 81,000 109,000 101,000 102,000 83,500 94,000

**TLMS Eligibility** **IND\_TLMS** [Return to Index](#INDEX1)

**DESCRIPTION:** In order to be eligible for analysis in TLMS, an individual must respond ‘Yes’/’No’ to either CIG100 (Smoked at least 100 cigarettes in lifetime) or EVERUSE (used one of various forms of tobacco other than cigarettes).

Note: The totals for IND\_TLMS (and IND\_2019) are larger than the other variables in this manual as they are not restricted to the universe of analysis file records.

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES (ONLY RECORDS WITH A VALUE OF 1, 2, OR 3 ARE ELIGIBLE FOR ANALYSIS)** | |
| 0 — | Respondent answered **NEITHER question** about cigarettes or other tobacco |
| 1 — | Respondent answered **ONLY CIG100; cigarettes** |
| 2 — | Respondent answered **ONLY EVERUSE; regarding alternative tobacco sources** |
| 3 — | Respondent answered **BOTH questions; CIG100 & EVERUSE** |

**FREQUENCIES:**

ind\_tlms: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

0 42,500 2,700 3,800 . . 12,500 15,000 17,000 7,200 7,700

1 97,500 250 250 100 150 400 350 350 150 150

2 60 100 150 50 60 200 200 150 100 100

3 4,900 30,000 27,500 33,500 34,000 81,500 79,500 76,500 51,000 49,500

Total 145,000 33,500 32,000 34,000 34,000 94,500 94,500 94,000 58,500 57,500

ind\_tlms: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

0 8,800 20,000 13,500 8,400 20,000 18,500 21,000 15,500 15,000 22,500

1 300 600 500 450 1,200 1,000 950 800 1,000 1,600

2 90 200 100 100 300 250 250 150 200 200

3 44,500 90,500 67,500 41,500 88,000 89,500 84,500 65,000 83,500 84,000

Total 54,000 111,000 82,000 50,500 110,000 109,000 107,000 81,000 100,000 108,000

ind\_tlms: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

0 17,500 24,000 24,000 23,000 21,000 34,000

1 1,100 1,400 1,400 1,100 950 850

2 150 200 150 200 150 100

3 62,500 83,500 75,500 77,500 61,500 59,500

Total 81,000 109,000 101,000 102,000 83,500 94,000

**Smoked More than 100 Cigarettes** **CIG100** [Return to Index](#INDEX1)

**DESCRIPTION:** This question is used as a screening question to identify whether the person is a cigarette smoker or not. (Based on ever having smoked 100 cigarettes in their lifetime)

Note: 100 cigarettes equals 5 packs.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:**

*(Have/Has) (you/name) smoked at least 100 cigarettes (your/his/her) entire life?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Yes |
| 02 — | No |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cig100: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 49,500 14,000 12,500 15,000 14,500 34,000 28,500 27,000 21,000 18,000

02 52,500 16,000 15,000 18,500 19,500 45,000 42,000 41,000 29,000 27,000

-9 60 100 150 50 50 150 200 150 90 90

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

cig100: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 14,000 36,500 24,500 15,500 33,000 33,000 31,500 24,000 32,000 29,000

02 17,000 53,000 37,500 25,500 55,000 56,000 52,500 40,500 51,000 53,000

-9 60 150 100 100 300 250 200 150 200 150

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

cig100: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 21,000 28,000 25,000 25,000 19,500 19,000

02 40,000 52,000 49,000 51,500 41,000 39,500

-9 100 150 150 150 150 100

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Age Started Smoking** **CIGAGE**  [Return to Index](#INDEX1)

**DESCRIPTION:** Question to identify the age at which the person started smoking regularly.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:**

*How old (were/was) (you/name) when (you/he/she) first started smoking cigarettes FAIRLY REGULARLY?*

Note: A validation question was asked for those responding 5 and younger to affirm the age provided was correct (documentation shows this started in 1998).

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–99 — | Age |
| -5 — | Never smoked regularly |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigage: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

1-99 43,500 13,000 12,000 14,000 13,500 31,500 26,500 25,000 19,500 17,000

-5 . 400 350 400 400 950 800 700 500 450

-9 58,500 16,500 15,500 19,500 20,000 46,500 43,500 42,500 30,000 28,000

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

cigage: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

1-99 13,000 34,000 22,500 14,500 30,000 30,500 29,000 22,000 29,500 26,500

-5 300 850 600 400 900 800 800 650 800 600

-9 17,500 55,000 38,500 26,000 57,500 58,000 54,500 42,000 52,500 55,000

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

cigage: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

1-99 19,000 25,500 23,000 23,500 17,500 17,500

-5 400 600 500 450 350 300

-9 41,500 54,000 51,000 53,000 42,000 40,500

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Smoking Frequency** **CIGNOW** [Return to Index](#INDEX1)

**DESCRIPTION:** Screening question to determine the type or phrasing of questions to ask for the remainder of the survey based on the extent of their current usage of cigarettes.

Note: This is the variable used to define the ‘CATEGORY OF CIGARETTE SMOKERS ASKED’ description used in the TLMS reference manual.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A (Used to define types of smokers)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:**

*Does (respondent) now smoke cigarettes every day, some days, or not at all?*

**Note 1:** Starting in 2018, self-respondents between 18–34 who did not answer ‘Yes’ to smoking 100 cigarettes in their lifetime (CIG100), were asked questions in a different pattern than in prior cohorts. This new pattern attempted to learn of tobacco-use habits of persons who smoked cigarettes irregularly and smoked less than 100 cigarettes in their lifetime.

**Note 2:** In 1985, the responses to the question did not include ‘Some days’. The question simply asked if the person “smokes cigarettes now” and a yes or no response was collected. If someone said ‘yes’, then they are an ‘Every day’ smoker and if someone said ‘no’ then they are a ‘Not at all’.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Every day |
| 02 — | Some days |
| 03 — | Not at all |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cignow: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 28,500 5,600 5,000 6,200 5,700 14,000 11,500 11,500 8,400 7,900

02 . 1,200 1,000 1,300 1,200 3,200 2,800 2,500 2,200 2,100

03 19,500 7,100 6,600 7,500 7,400 17,000 14,000 13,000 10,500 8,200

-9 54,500 16,000 15,000 18,500 19,500 45,500 42,500 41,000 29,500 27,000

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

cignow: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 5,300 14,500 9,600 6,400 13,000 13,000 11,500 9,100 12,000 10,500

02 1,200 3,300 2,400 1,500 2,900 2,800 2,800 2,100 2,700 2,600

03 7,200 18,500 12,500 7,700 17,000 17,500 16,500 12,500 17,500 15,500

-9 17,000 53,500 37,500 25,500 55,500 56,000 53,000 40,500 51,500 53,500

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

cignow: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 7,600 9,800 8,400 8,300 6,500 5,600

02 1,800 2,500 2,300 2,100 1,600 1,800

03 11,500 15,500 14,000 14,500 11,000 22,000

-9 40,500 52,500 49,500 51,500 41,000 29,000

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Smoking Frequency, 12 Months Ago** **CIGNOW12** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked of every day smokers about their smoking frequency from 12 months earlier.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**QUESTION(S) ASKED ON SURVEY:**

*“Around this time 12 MONTHS AGO, were you smoking cigarette every day, some days, or not at all?”*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Every day |
| 02 — | Some days |
| 03 — | Not at all |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cignow12: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

01 5,100 4,300 5,000 4,600 11,500 9,700 9,100 4,400 12,000 8,100

02 1,000 900 1,100 950 2,700 2,200 2,000 1,000 2,800 2,000

03 500 300 450 450 1,100 950 750 400 1,100 850

-9 23,500 22,000 27,000 27,500 64,000 57,500 56,000 25,000 74,000 51,000

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

cignow12: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 4,800 9,600 9,100 8,600 6,500 8,900 7,800 5,500 7,100 5,700

02 1,100 2,100 2,000 1,800 1,300 1,700 1,700 1,200 1,600 1,400

03 350 650 600 650 550 600 600 450 550 500

-9 35,000 76,000 77,500 73,000 56,000 72,000 72,000 54,000 71,000 66,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

cignow12: JAN15 MAY15 JUL18

01 5,800 4,500 4,200

02 1,400 1,000 1,100

03 450 400 400

-9 69,000 54,500 52,500

Total 76,500 60,000 58,500

**Smoking Status** **CIGSTAT** [Return to Index](#INDEX1)

**DESCRIPTION:** Respondent’s current cigarette smoking status

Note: In 1985, we treated people who smoked “at least 100 cigarettes” (CIG100) and stated they currently smoke (CIGNOW) as ‘Every day smokers’.

For those that stated they smoked “at least 100 cigarettes” (CIG100) and stated they do not currently smoke (CIGNOW), we treated them as ‘Former smokers’

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A (Used to define types of smokers)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:** N/A – Indicates the general frequency 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.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Never smoker | |
| 02 — | Every day smoker | |
| 03 — | Some days smoker | |
| 04 — | Former smoker | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

cigstat: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 52,500 16,000 15,000 18,500 19,500 45,000 42,000 41,000 29,000 27,000

02 28,500 5,600 5,000 6,200 5,700 14,000 11,500 11,500 8,400 7,900

03 . 1,200 1,000 1,300 1,200 3,200 2,800 2,500 2,200 2,100

04 21,500 7,100 6,600 7,500 7,400 17,000 14,000 13,000 10,500 8,200

-9 60 40 50 90 100 300 300 250 150 150

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

cigstat: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 17,000 53,000 37,500 25,500 55,000 56,000 52,500 40,500 51,000 53,000

02 5,300 14,500 9,600 6,400 13,000 13,000 11,500 9,100 12,000 10,500

03 1,200 3,300 2,400 1,500 2,900 2,800 2,800 2,100 2,700 2,600

04 7,200 18,500 12,500 7,700 17,000 17,500 16,500 12,500 17,500 15,500

-9 100 300 200 150 500 400 350 250 300 450

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

cigstat: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 40,000 52,000 49,000 51,500 41,000 39,500

02 7,600 9,800 8,400 8,300 6,500 5,600

03 1,800 2,500 2,300 2,100 1,600 1,600

04 11,500 15,500 14,000 14,500 11,000 11,500

-9 300 400 400 400 300 250

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Cigarettes Per Day** **CIGPDD** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked of current and some-day smokers to estimate the average number of cigarettes smoked in a day.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*On the average, about how many cigarettes do you now smoke each day?* (every day)

*On the average, on those days in the last 30 days which you smoked, how many cigarettes did you usually smoke each day?* (some-day)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 0–99 — | Number of cigarettes |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigpdd: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

0-99 5,800 4,900 5,800 5,400 13,500 11,000 10,500 5,200 14,000 9,500

-9 24,000 23,000 28,000 28,500 65,500 59,500 57,500 25,500 76,000 52,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

cigpdd: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

0-99 6,200 12,000 11,500 11,000 8,400 11,000 10,000 7,200 9,200 7,500

-9 35,000 76,000 77,500 73,000 56,000 72,000 72,000 54,000 71,000 67,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

cigpdd: JAN15 MAY15 JUL18

0-99 7,600 5,900 5,600

-9 69,000 54,500 52,500

Total 76,500 60,000 58,500

**Years Smoked Daily** **SMKYRS** [Return to Index](#INDEX1)

**DESCRIPTION:** This variable estimates the total number of years the person has smoked cigarettes. From Jan 1993 through May 1999, the actual number of years was collected from respondents.

Starting in June 2006, the question changed to collect a categorical response. For these cohorts, the duration of total smoking years is calculated based on the difference between the age of the person and the answer to CIGAGE (age started smoking). The ‘total smoking years’ is then multiplied by a factor (in brackets below) based on the response to the general question “What is the total number of years you have smoked every day?” where the responses are :

* All or nearly all the years you have smoked [100%]
* Most of the years you have smoked [75%]
* Half of the years you have smoked [50%]
* Less than half the years you have smoked [25%]

For former smokers, the calculation includes adjusting the age of the person to subtract the time from when they quit smoking (LONGQT\_F).

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*What is the total number of years you have smoked every day?* (every day)

*What is the total number of years you have smoked every day? Do not include any time you stayed off cigarettes for 6 months or longer.* (some-day)

*For how long have you smoked EVERY DAY?* (former)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 0–99 — | Years |
| >99 — | Suspect entry (>99 years) |
| -5 — | Less than 1 year |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

smkyrs: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

0-99 10,500 9,000 10,500 9,800 23,500 19,000 18,000 9,300 24,500 16,500

>99 . . . . . . . . . .

-5 . . 80 80 200 150 150 80 150 100

-9 19,500 18,500 23,000 24,000 55,500 51,000 50,000 21,500 65,000 45,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

smkyrs: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

0-99 10,500 21,500 21,000 20,500 15,000 20,500 9,100 6,500 8,400 6,800

>99 . . . . . . . . . .

-5 100 250 200 200 100 150 20 20 30 30

-9 30,500 66,500 68,000 63,500 49,000 62,500 73,000 54,500 71,500 67,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

smkyrs: JAN15 MAY15 JUL18

0-99 6,900 5,300 5,100

>99 <15 . <15

-5 20 20 20

-9 69,500 55,000 53,000

Total 76,500 60,000 58,500

**Type of Cigarettes Smoked** **CIGTYPE**  [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked to determine if person used menthol cigarettes.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Do you usually smoke menthol or non-menthol cigarettes?* (every day, some-day)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** FEB03–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Menthol |
| 02 — | Non-menthol |
| 03 — | No usual type |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigtype: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 1,600 3,100 3,000 2,800 2,100 2,800 2,900 2,100 2,600 2,300

02 4,500 9,000 8,400 8,000 6,100 8,200 7,100 5,000 6,500 5,100

03 200 400 400 400 250 300 250 250 300 250

-9 35,000 76,000 77,500 73,000 56,000 72,000 72,000 53,500 70,500 66,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

cigtype: JAN15 MAY15 JUL18

01 2,200 1,800 1,700

02 5,300 4,000 3,900

03 250 200 200

-9 69,000 54,000 52,500

Total 76,500 60,000 58,500

**Menthol Cigarettes Long Term** **MNTH6MO** [Return to Index](#INDEX1)

**DESCRIPTION:** Question to determine those who used menthol cigarettes for a period of at least 6 months or more.

Note: The survey instrument for the July 2018 cohort did not capture responses from:

Former smokers who quit smoking at least 1 year ago and smoked cigarettes every day for at least 6 months.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Have you EVER smoked MENTHOL cigarettes for 6 months or more?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** MAY10–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Yes |
| 02 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -8 — | Not applicable due to instrument error |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

mnth6mo: MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 2,100 1,500 1,900 1,800 2,100 1,500 800

02 15,000 10,500 14,000 11,500 12,000 9,300 5,300

-8 . . . . . . 6,900

-9 65,500 49,000 64,000 60,500 62,500 49,500 45,500

Total 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Menthol Cigarettes Duration** **TMENTH** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks the length of time the person smoked menthol cigarettes relative to their total smoking experience.

Note: The survey instrument did not capture responses from:

Former smokers who quit smoking at least 1 year ago and smoked cigarettes every day for at least 6 months

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*For how long (did you/have you) smoke(d) MENTHOL cigarettes?* (every day, some-day)

*For how long did you smoke MENTHOL cigarettes?* (former)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** MAY10–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | All or nearly all the years you have smoked |
| 02 — | Most of the years you have smoked |
| 03 — | Half of the years you have smoked |
| 04 — | Less than half the years you have smoked |
| 05 — | Less than one year |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -8 — | Not applicable due to instrument error |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

tmenth: MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 3,700 2,800 3,500 3,300 3,400 2,600 1,500

02 1,100 750 1,000 950 950 700 450

03 850 550 800 750 750 550 300

04 1,700 1,200 1,600 1,400 1,600 1,200 650

05 200 150 150 200 200 150 100

-8 . . . . . . 6,900

-9 74,500 55,500 73,000 67,500 69,500 55,000 48,500

Total 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**First Cigarette of Day** **SMKAM** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks the amount of time before person smokes their first cigarette of the day.

Note: Responses are collected either in minutes (1-90) or as a whole number of hours. All responses have been converted to minutes. There are responses greater than 1440 minutes (24 hours) for this variable. Use caution as this may result in values that are impractical, likely due to collection error.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*How soon after you wake up do you typically smoke your first cigarette of the day?* (every day)

*On the days that you smoke, how soon after you wake up do you typically smoke your first cigarette of the day?* (some-day)

*When you last smoked every day, on average how many cigarettes did you smoke each day?* (former)

*During the year before you quit smoking, how soon after you woke up did you typically smoke your first cigarette of the day?* (former)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** FEB03–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 1–1440 — | Minutes |
| >1440 — | Suspect entry (>24 hours) |
| -5 — | Varies |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

smkam: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

1-1440 7,700 15,000 14,000 13,500 10,500 13,500 11,500 8,100 10,500 8,800

>1440 <15 30 20 40 30 20 30 <15 20 20

-5 80 150 150 150 100 250 150 100 150 100

-9 33,500 73,500 75,000 70,500 54,000 69,500 70,500 53,000 69,500 65,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

smkam: JAN15 MAY15 JUL18

1-1440 9,200 7,000 5,900

>1440 20 20 20

-5 90 80 40

-9 67,500 53,000 52,500

Total 76,500 60,000 58,500

**Days Smoked, Last 30 Days** **SMKDAY30** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks the number of days the person smoked in the last 30 days.

Note: Even though this question is not asked of every day smokers, every day smokers are assigned a value of ‘30’ days.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day (assigned; 30), some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*On how many of the past 30 days did you smoke cigarettes?* (some-day)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 1–30 — | Days | | |
| -5 — | None | | |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe | | |

**FREQUENCIES:**

smkday30: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

1-30 6,500 5,700 7,100 6,600 16,000 13,500 13,000 6,200 17,000 11,500

-5 . . 30 20 80 60 50 40 60 50

-9 23,500 22,000 26,500 27,000 63,000 57,000 55,000 24,500 73,000 50,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

smkday30: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

1-30 7,500 15,000 15,000 14,000 10,500 14,000 12,500 8,900 11,500 10,000

-5 40 100 70 70 60 70 60 40 50 50

-9 33,500 73,000 74,500 70,500 54,000 69,000 70,000 52,000 68,500 64,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

smkday30: JAN15 MAY15 JUL18

1-30 9,800 7,700 6,900

-5 60 40 100

-9 66,500 52,500 51,500

Total 76,500 60,000 58,500

**Days Smoked During 30 Days, 12 Months Ago** **SMKDAY30\_12** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked of every day or some-day smokers about the number of days smoked during a 30 day period twelve months earlier.

Note: If the person responded that they were an ‘every day’ smoker in the previous period, then we assigned a value of ‘30’ days.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day (actual & assigned), some-day (actual & assigned), former (actual & assigned)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Around this time 12 months ago, on how many of the 30 days in the month did you smoke cigarettes?*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** MAY06–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–30 — | Days | |
| -5 — | None | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

smkday30\_12: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

1-30 11,000 8,400 11,500 10,000 7,200 9,400 7,800 8,000 6,100 5,700

-5 40 40 40 30 <15 20 <15 20 <15 <15

-9 73,000 56,000 71,500 72,000 53,500 70,500 66,500 68,500 54,000 52,500

Total 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Daily Smoker Last 6 Months** **SMKDLY6M**  [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks whether the person ever smoked cigarettes daily for a 6 month period.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every-day(assigned; 30),Some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Have you EVER smoked cigarettes EVERY DAY for at least 6 months?* (some-day, former)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Yes |
| 02 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

smkdly6m: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

01 11,500 10,500 12,000 11,500 27,000 22,500 21,000 10,500 28,500 19,000

02 1,400 1,100 1,400 1,400 3,800 3,000 2,800 1,600 4,200 2,900

-9 17,000 16,000 20,000 21,000 48,500 45,000 44,000 18,500 57,000 40,000

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

smkdly6m: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 12,500 25,500 25,500 24,000 18,500 24,500 22,000 16,000 21,000 18,000

02 1,800 3,700 3,500 3,600 2,700 3,700 3,500 2,500 3,300 3,000

-9 27,000 59,000 60,000 56,500 43,500 55,000 57,000 42,500 56,000 53,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

smkdly6m: JAN15 MAY15 JUL18

01 18,500 14,500 13,500

02 3,100 2,400 2,800

-9 55,000 43,500 41,500

Total 76,500 60,000 58,500

**When Last Smoked Daily** **LASTDLY** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks the length of time since the person last smoked cigarettes daily. Responses were converted from a combination of numbers and units (days, weeks, months, years) to days.

Note: There are responses greater than 70 years (25,567 days) for this variable. Use caution as this may result in values that are impractical, likely due to collection error.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*About how long has it been since you last smoked cigarettes every day? (some-day, former)*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JAN07

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 1–25567 — | Days |
| >25567 — | Suspect entry (>70 years) |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

lastdly: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

1-25567 5,500 4,900 5,800 5,600 13,000 10,500 9,800 5,400 14,000 9,400

>25567 <15 <15 <15 . . <15 . . . .

-9 24,500 22,500 28,000 28,000 66,000 60,000 58,500 25,500 76,000 52,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

lastdly: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07

1-25567 5,900 12,500 12,500 12,000 9,000 12,500

>25567 <15 . <15 <15 . .

-9 35,000 76,000 77,000 72,000 55,500 71,000

Total 41,000 88,500 89,000 84,000 64,500 83,000

**Cigarettes per Day, Past** **CIGPDD2** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked to estimate the average number of cigarettes smoked in a day, during the period in which the person smoked daily. For former smokers, respondents verified that they smoked every day for at least a 6 month period back when they smoked.

Note: Starting in 2010, the responses are top-coded at 50 cigarettes for former smokers and 20 for some-day smokers

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*When you last smoked every day, on average, how many cigarettes did you smoke each day?* (some-day, former)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–99 — | Number of cigarettes |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigpdd2: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

0-99 5,800 5,200 5,700 5,500 13,000 10,500 9,600 5,300 14,000 9,200

-9 24,000 22,500 28,000 28,000 66,500 60,000 58,500 25,500 76,000 53,000

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

cigpdd2: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

0-99 5,800 12,000 12,000 12,000 8,800 12,000 11,000 7,900 10,500 9,300

-9 35,500 76,000 77,000 72,500 55,500 71,000 71,000 53,000 69,500 65,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

cigpdd2: JAN15 MAY15 JUL18

0-99 10,000 7,400 7,800

-9 66,500 53,000 50,500

Total 76,500 60,000 58,500

**Cigarettes per Day, 12 Months Ago** **CIGPDD12** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked of every day smokers about the daily quantity of cigarettes smoked from 12 months earlier.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*“Around this time 12 MONTHS AGO, on the average, about how many cigarettes did you smoke each day?”*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** MAY06–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 0–99 — | Cigarettes |
| -5 — | None |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigpdd12: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

0-99 11,000 8,300 11,500 10,000 7,200 9,400 7,700 7,900 6,000 5,600

-5 20 <15 <15 . . . . . . .

-9 73,000 56,000 71,500 72,000 54,000 70,500 66,500 68,500 54,000 52,500

Total 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Rules for Smoking in the Home** **SMOKHOME** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked to identify household rules regarding smoking in the home.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A (smoking rules)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Which statement best describes the rules about smoking in your home?*

Note: As the CPS-TUS evolved, instruction for the interviewer changed to include clarification on ‘rules’ and ‘smoking’ definitions. For example, in early files ‘smoking’ emphasis is structured around cigarette usage but in later years, ‘smoking’ is expanded to include cigars, hookah, etc.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | No one is allowed to smoke anywhere INSIDE YOUR HOME |
| 02 — | Smoking is allowed in some places or at some times INSIDE YOUR HOME |
| 03 — | Smoking is permitted anywhere INSIDE YOUR HOME |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

smokhome: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

01 10,500 9,800 13,500 14,000 37,000 32,500 31,000 16,000 47,500 33,000

02 6,700 5,800 6,000 5,900 12,500 10,500 9,900 4,500 12,500 8,100

03 8,100 6,800 6,500 5,900 12,500 10,000 9,100 4,300 11,000 7,000

-9 4,500 5,300 7,700 7,800 17,000 17,500 18,000 6,100 19,500 13,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

smokhome: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 23,000 50,000 48,500 48,000 37,000 49,500 51,000 38,000 48,500 44,000

02 4,300 8,700 8,100 6,700 4,900 6,600 5,200 3,700 5,000 3,400

03 4,600 9,100 8,600 6,600 4,900 6,500 5,100 3,600 4,600 4,000

-9 9,000 20,500 24,000 23,000 17,500 21,000 21,000 16,000 22,000 23,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

smokhome: JAN15 MAY15 JUL18

01 46,500 37,000 40,000

02 3,600 2,600 2,300

03 4,100 3,000 2,500

-9 22,000 18,000 13,500

Total 76,500 60,000 58,500

**Times Stopped in Last 12 Months** **STPNUM12** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asked to identify the number of quit attempts longer than one day during the last 12 months.

Note: Responses collected from 1995-2007 were numeric (1-69). Starting in 2010, responses were categorical as indicated below. Responses from the earlier cohorts have been converted to the categorical classification scheme.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*How many times during the past 12 months have you stopped smoking for one day or longer because you were trying to quit smoking? (*every day, some-day)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 00 — | Did not try to quit |
| 01 — | 1 to 3 times |
| 02 — | 4 or more times |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

stpnum12: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

00 1,900 1,600 2,200 1,900 4,400 3,400 3,100 1,800 5,100 3,400

01 1,100 950 1,000 950 2,800 2,300 2,200 1,300 3,400 2,500

02 550 450 300 300 850 600 600 600 1,500 1,000

-9 26,500 24,500 30,000 30,500 71,000 64,500 62,000 27,000 80,000 55,000

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

stpnum12: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

00 1,600 3,300 3,200 2,900 2,100 3,000 5,600 4,200 5,200 4,000

01 1,200 2,300 2,200 2,100 1,600 2,100 2,700 1,800 2,500 2,200

02 400 700 650 600 500 650 1,200 850 1,100 1,000

-9 38,000 82,000 83,000 78,500 60,500 77,500 73,000 54,000 71,500 67,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

stpnum12: JAN15 MAY15 JUL18

00 4,200 3,200 3,100

01 2,100 1,700 1,500

02 1,000 750 750

-9 69,500 54,500 53,000

Total 76,500 60,000 58,500

**Longest Quit in Last 12 Months, Current** **LENSTP12\_C**  [Return to Index](#INDEX1)

**DESCRIPTION**: Question asked the duration of the longest attempt to quit smoking within the last 12 months. Responses were converted from a combination of numbers and units (days, weeks, months, years) to days.

Note: There are responses greater than 365 days for this variable. Use caution as this results in values that are impractical, likely due to collection error.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*During the PAST 12 MONTHS, what is the LENGTH of time of this single quit attempt where you stopped smoking because you were TRYING to quit smoking?*

*OR*

*Thinking of those attempts during the past 12 months, what was the length of time of the ONE attempt that lasted the longest?* (every day, some-day)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN96–MAY99; JUN01–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–365 — | Days | |
| >365 — | Suspect entry (>1 year) | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

lenstp12\_c: JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02 FEB03 JUN03

1-365 1,300 1,300 3,700 2,900 2,800 2,000 5,000 3,600 900 1,700

>365 . . . . . . . . <15 20

-9 32,500 32,500 75,500 67,500 65,500 28,500 85,000 58,500 40,000 86,500

Total 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000 41,000 88,500

lenstp12\_c: NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15

1-365 1,600 3,900 2,900 3,800 400 250 400 3,000 3,000 2,400

>365 20 70 50 60 <15 <15 <15 60 50 40

-9 87,500 80,000 61,500 79,500 82,000 60,500 79,500 71,000 73,500 58,000

Total 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000

lenstp12\_c: JUL18

1-365 2,200

>365 60

-9 56,000

Total 58,500

**Longest Quit in Last 12 Months, Former** **LENSTP12\_F**  [Return to Index](#INDEX1)

**DESCRIPTION**: Question asked to former smokers regarding the duration of their longest attempt to quit smoking within the last 12 months. Responses were converted from a combination of numbers and units (days, weeks, months, years) to days.

Note: There are responses greater than 365 days for this variable. Use caution as this results in values that are impractical, likely due to collection error.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*During the PAST 12 MONTHS, what WAS the LONGEST length of time you stopped smoking because you were TRYING to quit smoking?*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JUL14–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–365 — | Days | |
| >365 — | Suspect entry (>1 year) | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

lenstp12\_f: JUL14 JAN15 MAY15 JUL18

1-365 90 100 70 50

>365 <15 20 <15 <15

-9 74,000 76,500 60,000 58,000

Total 74,500 76,500 60,000 58,500

**Tried to Quit in Last 12 Months** **QTCMPLT12** [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks whether person tried to completely quit smoking in the last 12 months.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*During the PAST 12 MONTHS, have you TRIED to QUIT smoking COMPLETELY?* (smoked less than or equal to 11 days of last 30)

*During the PAST 12 MONTHS, have you stopped smoking for ONE DAY or longer BECAUSE YOU WERE TRYING TO QUIT SMOKING?* (smoked 12 or more days of last 30)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE**: MAY06–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Yes | |
| 02 — | No | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

qtcmplt12: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 800 600 800 850 600 800 700 750 550 550

02 3,000 2,200 3,100 5,600 4,200 5,200 4,000 4,200 3,200 3,100

-9 80,500 61,500 79,000 76,000 56,000 74,000 69,500 71,500 56,500 54,500

Total 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Tried to Quit Ever** **QTCMPLT**  [Return to Index](#INDEX1)

**DESCRIPTION:** Question asks if person has ever tried to quit smoking completely.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Have you EVER TRIED to QUIT smoking COMPLETELY? (*every day, some-day)

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE**: MAY06–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Yes | |
| 02 — | No | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

qtcmplt: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 750 550 800 1,800 1,400 1,800 1,400 1,500 1,100 1,100

02 3,700 2,800 3,700 3,700 2,800 3,400 2,500 2,600 2,100 2,000

-9 79,500 61,000 78,500 76,500 57,000 75,000 70,500 72,500 57,000 55,000

Total 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Quit Methods: Cessation Aids** **QTMTHD1** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person used various cessation aids to quit (attempt to quit) smoking. Cessation aids listed below varied between cohorts.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Thinking back to the (LAST TIME/time) you tried to QUIT smoking in the past 12 months. Did you use ANY of the following PRODUCTS*: (every day, some-day)

*Now I would like to ask about HOW you went about completely quitting smoking. When you quit smoking completely*, did you use ANY of the following PRODUCTS: (former)

Types of products included in the questions above:

* nicotine gum
* nicotine patch
* nicotine nasal spray
* nicotine inhaler
* nicotine lozenge
* nicotine tablet
* prescription pill (Zyban, Buproprion, Wellbutrin, Chantix, Varenicline, etc.)

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–NOV03; MAY10–JAN11; JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd1: FEB03 JUN03 NOV03 MAY10 AUG10 JAN11 JUL18

1 1,300 2,500 2,300 2,300 1,500 2,000 1,000

2 3,300 6,000 5,900 4,500 3,100 4,200 2,200

9 36,500 80,000 81,000 75,500 56,500 74,000 55,000

Total 41,000 88,500 89,000 82,500 61,000 80,000 58,500

**Quit Methods: Education/Counseling** **QTMTHD2**  [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person used various cessation methods focused around education and counseling to quit smoking. Cessation methods listed below varied between cohorts.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Thinking back to the (LAST TIME/time) you tried to QUIT smoking in the past 12 months: Did you use ANY of the following [methods]:* (every day, some-day)

*When you quit smoking completely, did you use ANY of the following [methods]:* (former)

Types of methods included in the questions above:

* telephone help line or quit line
* one-on-one counseling by a health professional
* a stop smoking clinic, class, or support group
* help or support from friends or family
* Internet or a web-based program or tool including smartphone apps and text messaging programs
* books, pamphlets, videos, or other materials
* acupuncture or hypnosis

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES**

qtmthd2: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

1 1,200 2,200 2,200 150 100 200 2,500 1,700 2,300 300

2 3,300 6,300 6,000 4,500 3,300 4,500 4,300 2,900 3,900 5,200

9 36,500 80,000 81,000 79,500 61,000 78,500 75,500 56,500 74,000 69,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

qtmthd2: JAN15 MAY15 JUL18

1 300 250 350

2 5,300 4,100 2,800

9 71,000 56,000 55,000

Total 76,500 60,000 58,500

**Quit Methods: Other; Cutting Back** **QTMTHD3A**  [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person attempted to quit smoking by cutting back on cigarettes.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Did you try to quit by gradually cutting back on cigarettes?* (every day, some-day)

*When you quit smoking completely, did you try to quit by gradually cutting back on cigarettes?* (former)

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–NOV03; MAY10–JAN11

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd3a: FEB03 JUN03 NOV03 MAY10 AUG10 JAN11

1 1,800 3,200 3,000 2,800 1,900 2,600

2 2,800 5,300 5,100 3,900 2,600 3,600

9 36,500 80,000 81,000 75,500 56,500 74,000

Total 41,000 88,500 89,000 82,500 61,000 80,000

**Quit Methods: Other; Alternate Tobacco Forms** **QTMTHD3B** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person attempted to quit smoking by switching to chewing tobacco, snuff, cigars, or pipes. Tobacco products listed below varied between cohorts.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Did you try to quit by switching to chewing tobacco, snuff, snus, cigars, cigarillos, pipes, or hookah (tobacco only)?* (every day, some-day)

*When you quit smoking completely, did you try to quit by switching to chewing tobacco, snuff, snus, cigars, cigarillos, pipes, or hookah (tobacco only*)? (former)

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–NOV03; MAY10–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd3b: FEB03 JUN03 NOV03 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

1 200 350 300 400 250 400 400 350 300 250

2 4,400 8,200 7,900 6,300 4,300 5,900 5,100 5,200 4,100 3,000

9 36,500 80,000 81,000 75,500 56,500 74,000 69,000 71,000 56,000 55,000

Total 41,000 88,500 89,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Quit Methods: Other; Light or Menthol** **QTMTHD3C** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person attempted to quit smoking by changing types of cigarettes; regular to light or menthol OR menthol to non-menthol.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Did you try to quit by switching to a lighter cigarette or menthol/non-menthol?*

*When you quit smoking completely, did you try to quit by switching to a lighter cigarette or menthol/non-menthol?*

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–NOV03; MAY10–JAN11

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd3c: FEB03 JUN03 NOV03 MAY10 AUG10 JAN11

1 650 1,100 1,100 650 400 550

2 4,000 7,400 7,100 6,100 4,100 5,700

9 36,500 80,000 81,000 75,500 56,500 74,000

Total 41,000 88,500 89,000 82,500 61,000 80,000

**Quit Methods: Other; Cold Turkey** **QTMTHD3D** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person attempted to quit by stopping all at once.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Did you try to quit by giving up cigarettes all at once? (*every day, some-day)

*When you quit smoking completely, did you try to quit by giving up cigarettes all at once?* (former)

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** FEB03–NOV03; MAY10–JAN11

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd3d: FEB03 JUN03 NOV03 MAY10 AUG10 JAN11

1 3,400 6,500 6,300 3,600 2,500 3,400

2 1,200 2,000 1,900 750 450 650

9 36,500 80,000 81,000 78,000 58,000 76,000

Total 41,000 88,500 89,000 82,500 61,000 80,000

**Quit Methods: Other; E-Cigarettes** **QTMTHD3E** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether the person attempted to quit by switching to electronic cigarettes.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day, former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Did you try to quit by switching to electronic or E-cigarettes?* (every day, some-day)

*When you quit smoking completely, did you try to quit by switching to electronic or E-cigarettes?* (former)

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** JUL14–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Yes |
| 2 — | No |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| 9 — | No response / Not in universe |

**FREQUENCIES:**

qtmthd3e: JUL14 JAN15 MAY15 JUL18

1 1,700 1,700 1,300 750

2 3,800 3,900 3,100 2,400

9 69,000 71,000 56,000 55,000

Total 74,500 76,500 60,000 58,500

**Medical Advice to Quit in Last 12 Months** **ADVQT\_DOC** [Return to Index](#INDEX2)

**DESCRIPTION:** Questions asked to determine if person received care from a medical doctor in the last 12 months and whether any doctor suggested the person quit smoking.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*In the past 12 months, have you seen a medical doctor, and did they advise you to quit smoking?*

*During the PAST 12 MONTHS, did any medical doctor ADVISE you to stop smoking?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–FEB02; MAY06–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Yes saw doctor, and doctor advised quit | |
| 02 — | Yes saw doctor, and no doctor did not advise quit | |
| 03 — | No did not see doctor | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

advqt\_doc: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

01 2,200 1,900 2,400 2,200 5,900 4,700 4,800 2,500 6,500 4,400

02 2,100 1,700 2,000 1,800 4,200 3,400 3,000 1,500 4,000 2,600

03 1,600 1,300 1,400 1,500 3,500 3,000 2,700 1,200 3,500 2,600

-9 24,000 23,000 28,000 28,500 65,500 59,500 57,500 25,500 76,000 52,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

advqt\_doc: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 5,000 3,800 5,100 4,300 3,100 4,000 3,700 3,700 3,000 2,900

02 2,700 1,900 2,600 2,200 1,600 2,000 1,500 1,600 1,100 1,100

03 3,300 2,500 3,400 3,300 2,300 3,100 2,300 2,300 1,800 1,700

-9 73,000 56,000 72,000 72,500 54,000 71,000 67,000 69,000 54,500 52,500

Total 84,000 64,500 83,000 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Dental Advice to Quit in Last 12 Months** **ADVQT\_DEN** [Return to Index](#INDEX2)

**DESCRIPTION:** Questions asked to determine if person received care from a dentist in the last 12 months and whether any dentist suggested the person quit smoking.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*In the past 12 months, have you seen a dentist, and did they advise you to quit smoking?*

*During the PAST 12 MONTHS, did any dentist ADVISE you to stop smoking?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–FEB02; MAY06–JAN11

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Yes saw dentist, and dentist advised quit | |
| 02 — | Yes saw dentist, and no dentist did not advise quit | |
| 03 — | No did not see dentist | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES:**

advqt\_den: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

01 600 500 750 650 2,100 1,700 1,700 850 2,400 1,600

02 2,400 2,100 2,400 2,200 5,300 4,200 4,000 1,900 5,000 3,400

03 2,800 2,300 2,700 2,600 6,300 5,200 4,800 2,500 6,700 4,500

-9 24,000 23,000 28,000 28,500 65,500 59,500 57,500 25,500 76,000 52,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

advqt\_den: MAY06 AUG06 JAN07 MAY10 AUG10 JAN11

01 1,800 1,300 1,700 1,200 850 1,200

02 3,400 2,600 3,600 2,800 2,000 2,500

03 5,800 4,300 5,800 5,800 4,200 5,400

-9 73,000 56,000 72,000 72,500 54,000 71,000

Total 84,000 64,500 83,000 82,500 61,000 80,000

**How Long Since Quitting** **LONGQT\_F** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asked to determine the length of time since the person completely quit smoking cigarettes. Reponses were converted from a combination of numbers and units (days, weeks, months, years) to days.

Note: There are responses greater than 70 years (25,567 days) for this variable. Use caution as this results in values that are impractical, likely due to collection error.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*About how long has it been since you COMPLETELY quit smoking cigarettes?* (former)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** JAN93–MAY99; JUN01–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 1–25567 — | Days |
| >25567 — | Suspect entry (>70 years) |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

longqt\_f: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JUN01 NOV01 FEB02

1-25567 5,800 5,100 6,200 6,000 14,000 11,500 10,500 6,000 15,500 10,500

>25567 <15 <15 <15 . . <15 <15 <15 <15 <15

-9 24,000 22,500 27,500 27,500 65,000 59,000 57,500 24,500 74,000 51,500

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 30,500 90,000 62,000

longqt\_f: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

1-25567 6,600 14,000 14,000 13,500 10,000 14,000 13,000 9,200 12,500 11,000

>25567 <15 <15 <15 <15 <15 <15 <15 <15 <15 <15

-9 34,500 74,500 75,000 70,500 54,500 69,000 69,500 52,000 67,500 63,000

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

longqt\_f: JAN15 MAY15 JUL18

1-25567 12,000 8,800 9,500

>25567 <15 <15 <15

-9 65,000 51,500 48,500

Total 76,500 60,000 58,500

**Formerly Smoked Menthol** **CIGTYPEQT12** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks whether person primarily used menthol or non-menthol cigarettes during the 12 months prior to completely quitting cigarette smoking.

Note: The survey instrument during July 2018 did not capture responses from:

Former smokers who quit smoking at least 1 year ago and smoked cigarettes every day for at least 6 months.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** Former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*Thinking back to the 12 months before you completely quit smoking cigarettes: during that time, did you usually smoke menthol or non-menthol cigarettes?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** FEB03–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Menthol |
| 02 — | Non-menthol |
| 03 — | No usual type |
| -8 — | Not applicable due to instrument error |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigtypeqt12: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 400 850 750 750 550 800 2,800 2,000 2,700 2,600

02 1,400 2,600 2,600 2,500 1,800 2,700 8,900 6,400 8,500 7,600

03 100 200 250 250 150 200 950 650 850 700

-8 . . . . . . . . . .

-9 39,000 84,500 85,500 80,500 62,000 79,500 69,500 52,000 68,000 63,500

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

cigtypeqt12: JAN15 MAY15 JUL18

01 2,800 2,000 550

02 8,000 6,000 1,700

03 750 550 350

-8 . . 6,900

-9 65,000 51,500 49,000

Total 76,500 60,000 58,500

**Used Other Tobacco Products Ever** **EVERUSE** (EVERPIPE, EVERCIGR, etc.) [Return to Index](#INDEX2)

**DESCRIPTION:** String variable identifying the responses to questions regarding ever use of various types of alternative tobacco products. Each component of the string has its own variable as well.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A (other tobacco products)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self and Proxy

**QUESTION(S) ASKED ON SURVEY:**

*Have you ever used any of these products even one time?: smokeless tobacco, pipe, cigar, chew, snuff, chew and/or snuff, water pipe/hookahs, e-cigarettes, dissolvable tobacco.*

Note: Chewing tobacco and snuff were asked separately in supplements through January 2007. Starting with the May 2010 supplement, chewing tobacco and snuff were combined into the same question. The combined value for chew and/or snuff (6th digit) is backfilled with the combined responses from the individual questions that make up ‘used chew (4th digit) and used snuff (5th digit),’ and therefore has values for all cohorts. Where the person does not indicate ‘Yes’ or ‘No’ to one of chewing tobacco or snuff, the resulting outcome for the 6th digit is a ‘9 – Response missing for some reason.’

Each digit of the nine-digit string for EVERUSE corresponds to a specific type of alternative tobacco, as follows:

1st digit (Administrative use – Identifies any type of usage of alternate tobacco) – **EVERUSE\_CHECK**

2nd digit Used pipe - **EVERPIPE**

3rd digit Used cigar - **EVERCIGR**

4th digit Used chew - **EVERCHEW**

5th digit Used snuff - **EVERSNUFF**

6th digit Used chew and/or snuff - **EVERCHEWORSNUFF**

7th digit Used water pipe/hookahs - **EVERHOOK**

8th digit Used e-cigarettes - **EVERECIG**

9th digit Used dissolvable tobacco - **EVERDSLV**

Valid responses for each digit are as follows:

|  |  |
| --- | --- |
| 1 – | Yes |
| 2 – | No |
| 7 – | Question not asked this cohort (omitted from frequency table below) |
| 9 – | No response / Not in universe |

SAS Type: CHAR

SAS Format: $9.

**COHORTS AVAILABLE:** JAN93–JUL18

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

EVERUSE 1 2 9 Total

EVERPIPE 94,500 1,450,000 15,000 1,560,000

EVERCIGR 189,000 1,360,000 15,000 1,560,000

EVERCHEW 59,000 1,000,000 8,000 1,070,000

EVERSNUFF 34,500 1,030,000 8,000 1,070,000

EVERCHEWORSNUFF 108,000 1,440,000 15,000 1,560,000

EVERHOOK 14,500 471,000 6,900 493,000

EVERECIG 19,500 246,000 3,500 269,000

EVERDSLV 850 265,000 3,600 269,000

EVERUSE\_CHECK 275,000 1,270,000 16,000 1,560,000

**Use Other Tobacco Products Now** **CURRUSE** (CURRPIPE, CURRCIGR, etc.) [Return to Index](#INDEX2)

**DESCRIPTION:** String variable identifying the responses to questions regarding current usage frequency of various types of alternative tobacco products. Each component of the string has its own variable as well.

**CATEGORY OF CIGARETTE SMOKERS ASKED:** N/A (other tobacco products)

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:**

*Do you now smoke/use any of the following every day, some days, or not at all?: smokeless tobacco, pipe, cigar, chew, snuff, chew and/or snuff, water pipe/hookahs, e-cigarettes, dissolvable tobacco.*

Each digit of the nine-digit codes for CURRUSE corresponds to a specific type of alternative tobacco, as follows:

1st digit (Administrative use – Identifies any type of usage of alternate tobacco) – **CURRUSE\_CHECK**

2nd digit Now use pipe - **CURRPIPE**

3rd digit Now use cigar - **CURRCIGR**

4th digit Now use chew - **CURRCHEW**

5th digit Now use snuff - **CURRSNUFF**

6th digit Now use chew and/or snuff - **CURRCHEWORSNUFF**

7th digit Now use water pipe/hookahs - **CURRHOOK**

8th digit Now use e-cigarettes - **CURRECIG**

9th digit Now use dissolvable tobacco - **CURRDSLV**

**Note 1:** In 1985, respondents were asked whether the person “presently uses any other form of tobacco” and “which types.” CURRUSE intends to capture the frequency of current usage and not solely the presence or absence of current usage, thus these records from 1985 are excluded from CURRUSE.

**Note 2:** Chewing tobacco and snuff were asked separately in supplements through January 2007. Starting with the May 2010 supplement, chewing tobacco and snuff were combined into the same question. When the responses differ in the earlier cohorts, we assign the more frequent usage value to the combined (6th digit) indicator, resulting in values for all cohorts. For example, if someone uses chewing tobacco ‘*every day*’ but uses snuff ‘*not at all,*’ they are classified as an ‘*every day*’ user of chew and/or snuff in the 6th digit.

Valid responses for each digit are as follows:

|  |  |
| --- | --- |
| 1 – | Every day |
| 2 – | Some days **(response not an option before 1998)** |
| 3 – | Not at all |
| 4 – | Current user |
| 7 – | Question not asked this cohort (omitted from frequency table below) |
| 9 – | No response / Not in universe | |

SAS Type: CHAR

SAS Format: $9.

**COHORTS AVAILABLE:** All cohorts (varies by type of alternative tobacco)

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

CURRUSE 1 2 3 4 9 Total

CURRPIPE 1,700 4,500 196,000 1,800 1,460,000 1,670,000

CURRCIGR 4,600 29,500 263,000 2,000 1,370,000 1,670,000

CURRCHEW 6,300 5,700 154,000 3,800 1,000,000 1,170,000

CURRSNUFF 5,200 2,900 136,000 2,300 1,030,000 1,170,000

CURRCHEWORSNUFF 16,500 11,000 85,500 5,900 1,550,000 1,670,000

CURRHOOK 70 1,600 13,000 0 478,000 493,000

CURRECIG 2,200 3,700 13,500 0 250,000 269,000

CURRDSLV 50 60 750 0 269,000 269,000

CURRUSE\_CHECK 68,500 0 17,000 9,200 1,570,000 1,670,000

**Alternative Tobacco Status <Alternative Tobacco> STAT** [Return to Index](#INDEX2)

**(e.g. PIPESTAT)**

**DESCRIPTION:** These variables, **<\_\_\_\_>STAT**, attempt to follow the same pattern as CIGSTAT regarding the frequency of use applied to specific alternative tobacco forms by the person.

Alternative Tobacco forms and variable names:

* Pipe – **PIPESTAT**
* Cigar – **CIGRSTAT**
* Chewing tobacco – **CHEWSTAT**; **CHEWORSNUFFSTAT**
* Snuff – **SNUFFSTAT**; **CHEWORSNUFFSTAT**
* Hookah – **HOOKSTAT**
* E-Cigarette – **ECIGSTAT**
* Dissolvable Tobacco – **DSLVSTAT**

**Note 1:** In 1985, respondents were asked whether the person “presently uses any other form of tobacco” and “which types.” The \_\_\_\_STAT variables are based in part on CURRUSE which intends to capture the frequency of current usage and not solely the presence or absence of current usage, thus these records from 1985 are excluded for CURRUSE and \_\_STAT.

**Note 2:** Chewing tobacco and snuff were asked separately in supplements through January 2007. Starting with the May 2010 supplement, chewing tobacco and snuff were combined into the same question. The combined variable, CHEWORSNUFFSTAT, is built from its EVERUSE and CURRUSE components.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** N/A

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self & Proxy

**QUESTION(S) ASKED ON SURVEY:** N/A -Indicates the general frequency of alternate tobacco usage.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.

SAS Type: CHAR

SAS Format: $1.

**COHORTS AVAILABLE:** JAN93–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1 — | Never user | |
| 2 — | Every day user | |
| 3 — | Some days user | |
| 4 — | Former user | |
| 5 — | Current user | |
| 7 — | Question not asked this cohort (omitted from frequency table below) | |
| 9 — | No response / Not in universe | |

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

<AltTob>STAT 1 2 3 4 5 9 Total

PIPESTAT 1,450,000 1,700 4,500 87,500 1,800 116,000 1,670,000

CIGRSTAT 1,360,000 4,600 29,500 154,000 2,000 117,000 1,670,000

CHEWSTAT 1,000,000 6,300 5,700 45,500 3,800 108,000 1,170,000

SNUFFSTAT 1,030,000 5,200 2,900 25,000 2,300 109,000 1,170,000

CHEWORSNUFFSTAT 1,440,000 16,500 11,000 77,500 5,800 114,000 1,670,000

HOOKSTAT 471,000 70 1,600 13,000 0 7,000 493,000

ECIGSTAT 246,000 2,200 3,700 13,500 0 3,500 269,000

DSLVSTAT 265,000 50 60 750 0 3,600 269,000

**Days Used Alternative Tobacco Last Month <Alternative Tobacco>** **DAY**

**(e.g. PIPEDAY)** [Return to Index](#INDEX2)

**DESCRIPTION:** These variables, **<\_\_\_\_>DAY**, indicate how many of the last 30 days that the person used each form of alternate tobacco.

Alternative Tobacco forms and variable names:

* Pipe – **PIPEDAY**
* Cigar – **CIGRDAY**
* Chewing tobacco – **CHEWDAY**; **CHEWORSNUFFDAY**
* Snuff – **SNUFFDAY**; **CHEWORSNUFFDAY**
* Hookah – **HOOKDAY**
* E-Cigarette – **ECIGDAY**
* Dissolvable Tobacco – **DSLVSDAY**

Note: Chewing tobacco and snuff were asked separately in supplements through January 2007. Starting with the May 2010 supplement, chewing tobacco and snuff were combined into the same question. The combined variable, **CHEWORSNUFFDAY**, is given the larger of the two values between **CHEWDAY** and **SNUFFDAY**, and therefore has values for all cohorts.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*On how many of the past 30 days did you use <form of alternate tobacco>?*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** SEP98–JUL18 (varies by type of alternate tobacco)

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–30 — | Days | |
| -5 — | None | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

<AltTob>DAY 1-30 -5 -9 Total

PIPEDAY 2,300 1,100 1,440,000 1,440,000

CIGRDAY 15,000 6,800 1,420,000 1,440,000

CHEWDAY 3,600 450 942,000 946,000

SNUFFDAY 1,900 200 944,000 946,000

CHEWORSNUFFDAY 7,200 800 1,430,000 1,440,000

HOOKDAY 700 450 492,000 493,000

ECIGDAY 2,400 350 267,000 269,000

DSLVDAY 30 <15 269,000 269,000

**Years Using Alternative Tobacco <Alternative Tobacco>****YRS** [Return to Index](#INDEX2)

**(e.g. PIPEYRS)**

**DESCRIPTION:** These variables, **<\_\_\_\_>YRS**, indicate how many years that the person used each form of alternate tobacco.

Alternative Tobacco forms and variable names:

* Pipe – **PIPEYRS**
* Cigar – **CIGRYRS**
* Smokeless Tobacco (for example: chewing tobacco and snuff) - **SMKLSYRS**
* Hookah – **HOOKYRS**
* E-Cigarette – **ECIGYRS**

Note: There are responses greater than 70 years (25,567 days) for this variable. Use caution as this results in values that are impractical, likely due to collection error.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*In total, how many years (have you used/did you use) <*form of alternate tobacco*>?*

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** MAY10–JUL18 (varies by type of alternate tobacco)

|  |  |
| --- | --- |
| **VALID CODES** | |
| 0–97 — | Years | |
| >97 — | Suspect entry (>97 years) | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

>97

<AltTob>YRS 0-97 (suspect) -9 Total

PIPEYRS 22,000 0 471,000 493,000

CIGRYRS 58,500 <15 434,000 493,000

SMKLSYRS 12,000 0 481,000 493,000

HOOKYRS 26,500 0 466,000 493,000

ECIGYRS 15,500 0 254,000 269,000

**Since Quit Alternative Tobacco <****Alternative Tobacco>****LQT** [Return to Index](#INDEX2)

**(e.g. PIPELQT)**

**DESCRIPTION:** These variables, **<\_\_\_\_>LQT**, indicate how long since the person completely quit using each form of alternate tobacco. Responses were converted from a combination of numbers and units (days, weeks, months, years) to days.

Note: There are responses greater than 70 years (25,567 days) for this variable. Use caution as this results in values that are impractical, likely due to collection error.

Alternative Tobacco forms and variable names:

* Pipe – **PIPELQT**
* Cigar – **CIGRLQT**
* Smokeless Tobacco (for example: chewing tobacco and snuff) - **SMKLSLQT**
* Hookah – **HOOKLQT**
* E-Cigarette – **ECIGLQT**

Note: There are responses greater than 70 years (25,567 days) for this variable. Use caution as this results in values that are impractical, likely due to collection error.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Former

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*About how long has it been since you completely quit using <alternate form of tobacco>?* (former)

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** MAY10–JUL18 (varies by type of alternate tobacco)

|  |  |
| --- | --- |
| **VALID CODES** | |
| 1–25567 — | Days | |
| >25567 — | Suspect entry (>70 years) | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**CUMULATIVE FREQUENCIES ACROSS ALL COHORTS:**

>25567

<AltTob>LQT 1-25567 (suspect) -9 Total

PIPELQT 17,000 30 476,000 493,000

CIGRLQT 37,500 60 455,000 493,000

SMKLSLQT 16,000 30 476,000 493,000

HOOKLQT 7,100 20 486,000 493,000

ECIGLQT 7,500 <15 262,000 269,000

**Smokeless Tobacco Brands** **SMOKELESS\_BRAND** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks the brand of smokeless tobacco the person used most often.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*During the past 30 days, what brand of smokeless tobacco did you use most often?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** MAY10–JUL18 (varies by type of alternate tobacco)

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01–22 — | Brand |
| -7 — | Question not asked this cohort (omitted from frequency table below) |
| -9 — | No response / Not in universe |

**FREQUENCIES**

smokeless\_brand:

01 Beech-nut 90

02 Camel Snus 200

03 Cope 20

04 Copenhagen 1,900

05 Cougar 20

06 General Snus 1,100

07 Grizzly 30

08 Hawken 70

09 Husky 100

10 Kayak 150

11 Kodiak 200

12 Levi Garrett 90

13 Longhorn 100

14 Marlboro Snus 150

15 Red Man 200

16 Red Man Golden Blend 550

17 Red Seal 50

18 Rooster 600

19 Silver Creek 50

20 Skoal 70

21 Skoal Snus 300

22 Skoal X-tra 200

-9 No response 487,000

Total 493,000

**Cigar Brands** **CIGAR\_BRAND**  [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks the brand of cigar the person used most often.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY*:***

*During the past 30 days, what brand of cigar did you use most often?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** MAY10–JUL18 (varies by type of alternate tobacco)

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01–22 — | Brand | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |
| -9 — | No response / Not in universe | |

**FREQUENCIES**

cigar\_brand:

01 305'S 80

02 Al Capone 150

03 Antonio Y Cleopatra 500

04 Backwoods 100

05 Black and Milds 500

06 Captain Black 150

07 Cheyenne 40

08 Djarum 100

09 Dutch Masters 100

10 Dutch Treats 50

11 Erik 70

12 Garcia Y Vega 90

13 Good\_ times 70

14 Hav A-Tampa 400

15 King Edward 1,500

16 Muriel 350

17 Phillies <15

18 Prime time 50

19 Sante fe 150

20 Smoker's Choice 1,200

21 Swisher Sweets <15

22 White Cat 350

-9 No response 487,000

Total 493,000

**Cigar Type** **CIGAR\_TYPE** [Return to Index](#INDEX2)

**DESCRIPTION:** Question asks the types of cigar the person used most often.

**CATEGORY OF ALTERNATIVE TOBACCO USERS ASKED:** Every day, some-day

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** Self only

**QUESTION(S) ASKED ON SURVEY:**

*During the past 30 days, what type of cigar did you use most often?*

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** MAY10–JUL18 (varies by type of alternate tobacco)

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Regular |
| 02 — | Cigarillos |
| 03 — | Little filtered cigars |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

cigar\_type: MAY10 AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 750 500 650 600 600 500 550

02 200 150 200 200 250 150 200

03 300 200 200 250 200 150 150

-9 81,000 60,000 79,000 73,500 75,500 59,500 57,500

Total 82,500 61,000 80,000 74,500 76,500 60,000 58,500

**Respondent Relationship TUS** **RELTRF\_TOB** [Return to Index](#INDEX2)

**DESCRIPTION:** Relationship of respondent to the reference person regarding the tobacco use supplement questions.

SAS Type: Char

SAS Format: $2.

**COHORTS AVAILABLE:** JAN93–JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Self |
| 02 — | Husband |
| 03 — | Wife |
| 04 — | Child |
| 05 — | Grandchild |
| 06 — | Grandparent |
| 07 — | Parent |
| 08 — | Sibling |
| 09 — | Other relative of eligible person |
| 10 — | Non relative (unmarried partner) |
| 11 — | Non relative |
| 88 — | Proxy unknown |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

reltrf\_tob: JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00 JUN01

01 25,500 22,500 26,000 26,000 62,500 54,000 50,500 40,000 34,500 25,000

02 600 800 1,500 1,300 2,500 2,700 2,800 1,600 1,700 1,100

03 1,400 1,900 2,400 2,500 5,200 5,000 5,400 2,900 2,900 2,600

04 350 450 1,000 950 850 800 800 500 500 400

05 20 20 50 70 40 20 20 <15 20 <15

06 . . . . 30 30 40 30 40 <15

07 1,200 1,200 1,600 1,700 2,800 3,000 3,200 2,000 2,000 500

08 150 200 300 300 500 600 500 250 300 90

09 150 150 250 250 3,100 3,000 3,100 1,900 1,900 500

10 150 150 300 350 500 500 600 400 450 300

11 70 100 200 200 950 1,000 950 650 800 300

88 250 200 <15 <15 70 . . . . .

-9 30 40 . . . . . . . .

Total 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000 30,500

reltrf\_tob: NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10

01 71,000 49,000 32,500 69,000 66,500 62,000 47,500 63,000 63,000 46,000

02 3,300 2,300 1,400 3,300 4,200 4,000 3,100 4,300 4,100 3,300

03 5,600 4,000 2,500 6,100 7,300 6,700 5,200 6,700 6,100 4,700

04 1,000 600 400 1,100 1,100 950 800 1,000 1,000 800

05 30 20 <15 20 40 30 <15 30 30 20

06 50 30 20 40 60 60 40 30 50 30

07 3,500 2,500 1,700 3,500 4,300 4,300 3,300 3,000 3,300 2,400

08 550 350 200 500 550 500 450 350 350 300

09 2,900 2,200 1,300 3,000 3,500 3,200 2,500 2,400 2,300 1,800

10 700 500 400 700 850 1,000 800 1,000 1,100 850

11 1,100 750 500 1,000 1,100 1,100 850 1,100 1,100 750

88 . . . . . . . . . .

-9 . . . . . . . . . .

Total 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000

reltrf\_tob: JAN11 JUL14 JAN15 MAY15 JUL18

01 59,000 56,000 57,000 44,500 46,000

02 4,800 4,200 4,500 3,600 3,400

03 6,600 5,300 5,500 4,400 3,900

04 1,100 1,000 1,000 800 550

05 30 30 30 20 <15

06 50 50 70 40 20

07 3,500 3,200 3,600 2,800 1,700

08 400 350 400 250 150

09 2,300 2,100 2,300 1,800 900

10 1,200 1,200 1,200 1,000 950

11 1,000 850 900 700 450

88 . . . . .

-9 . . . . .

Total 80,000 74,500 76,500 60,000 58,500

**Age** **AGE**  [Return to Index](#INDEX2)

**DESCRIPTION:** Age of the person as collected from the core CPS.

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 0-99 — | Age in years |

**Sex** **SEX**  [Return to Index](#INDEX2)

**DESCRIPTION:** Sex of the person as collected from the core CPS; male or female.

Note: The 1985 cohort contains edited values as defined in the NLMS (National Longitudinal Mortality Study). Please consult the National Longitudinal Mortality Study reference guide for additional detail.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Male |
| 02 — | Female |

**FREQUENCIES:**

sex: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 48,000 14,000 13,000 15,500 15,500 37,000 33,000 32,000 24,000 21,500

02 54,000 16,000 15,000 18,000 18,000 42,500 37,500 36,000 26,500 23,500

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

sex: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 15,000 42,500 29,500 19,500 41,500 42,000 39,500 30,500 39,000 38,500

02 16,000 47,500 32,500 21,500 46,500 47,000 44,500 34,000 44,000 43,500

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

sex: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 28,500 37,500 35,000 36,000 28,500 27,000

02 32,500 42,500 39,500 40,500 32,000 31,000

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Race** **RACE**  [Return to Index](#INDEX2)

**DESCRIPTION:** Race of the person. After 2003, a detailed race was collected (see RACE\_DETAIL) from respondents and those responses were narrowed down to the five categories below using methodology developed by the U.S. Census Bureau.

Note: All multiple race combinations from RACE\_DETAIL are assigned a value of ’05 – Other’. ‘01’ through ‘04’ are based on ‘White Alone’, ‘Black Alone’, etc.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | White |
| 02 — | Black |
| 03 — | American Indian, Aleut, Eskimo |
| 04 — | Asian Or Pacific Islander |
| 05 — | Other - Specify (Deleted January 1996) |

**FREQUENCIES:**

race: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 89,500 26,500 24,500 29,000 29,500 68,000 60,000 58,500 42,500 37,500

02 9,700 2,400 2,200 3,100 3,100 7,400 6,800 6,400 5,100 4,800

03 2,900 250 250 350 350 1,000 850 750 650 650

04 70 750 700 1,000 1,000 2,800 2,600 2,600 1,900 1,900

05 <15 80 60 . . . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

race: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 26,000 77,000 53,000 34,500 75,000 76,000 71,000 54,000 70,000 68,500

02 3,100 8,300 5,700 3,900 7,700 7,900 7,400 5,700 7,300 8,000

03 400 1,200 900 500 950 900 750 650 850 900

04 1,200 3,400 2,300 1,500 3,200 3,200 3,400 2,700 3,400 3,800

05 . . . 800 1,400 1,400 1,500 1,200 1,400 1,300

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

race: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 51,000 66,500 61,000 63,000 49,500 48,000

02 5,700 7,600 7,400 7,600 6,300 5,600

03 500 850 750 900 850 650

04 2,800 3,800 3,800 3,800 2,900 2,900

05 1,000 1,200 1,200 1,100 850 900

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Detailed Race** **RACE\_DETAIL**  [Return to Index](#INDEX2)

**DESCRIPTION:** Beginning with the 2000 redesign of the CPS (first applicable with the Feb 2003 CPS-TUS), a detailed version of race was collected that presented the respondent with a wide variety of mixed race possibilities to describe his/her race.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** FEB03-JUL18

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | White Only |
| 02 — | Black Only |
| 03 — | American Indian, Alaskan Native Only |
| 04 — | Asian Only |
| 05 — | Hawaiian/Pacific Islander Only |
| 06 — | White and Black |
| 07 — | White and American Indian |
| 08 — | White and Asian |
| 09 — | White and Hawaiian |
| 10 — | Black and American Indian |
| 11 — | Black and Asian |
| 12 — | Black and Hawaiian, Other Pacific Islander |
| 13 — | Asian and American Indian |
| 14 — | American Indian and Hawaiian, Other Pacific Islander |
| 15 — | Asian and Hawaiian, Other Pacific Islander |
| 16 — | White, Black, and American Indian |
| 17 — | White, Black, and Asian |
| 18 — | White, Black, and Hawaiian, Other Pacific Islander |
| 19 — | White, Asian, and American Indian |
| 20 — | White, American Indian, and Hawaiian, Other Pacific Islander |
| 21 — | White, Asian, and Hawaiian, Other Pacific Islander |
| 22 — | Black, Asian and American Indian |
| 23 — | Black, American Indian, and Hawaiian, Other Pacific Islander |
| 24 — | Black, Asian, and Hawaiian, Other Pacific Islander |
| 25 — | Asian, American Indian, and Hawaiian, Other Pacific Islander |
| 26 — | White, Black, Asian, and American Indian |
| 27 — | White, Asian, American Indian, and Hawaiian, Other Pacific Islander |
| 28 — | White, Black, Asian, and Hawaiian, Other Pacific Islander |
| 29 — | White, Black, American Indian, and Hawaiian, Other Pacific Islander |
| 30 — | Black, Asian, American Indian, and Hawaiian, Other Pacific Islander |
| 31 — | White, Black, Asian, American Indian, and Hawaiian, Other Pacific Islander |
| -7 — | Question not asked this cohort (omitted from frequency table below) |

**FREQUENCIES:**

race\_detail: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 34,500 75,000 76,000 71,000 54,000 70,000 68,500 51,000 66,500 61,000

02 3,900 7,700 7,900 7,400 5,700 7,300 8,000 5,700 7,600 7,400

03 500 950 900 750 650 850 900 500 850 750

04 1,400 3,000 2,900 3,100 2,400 3,100 3,500 2,600 3,500 3,600

05 150 250 200 250 250 300 350 250 300 250

06 90 150 150 200 150 100 200 200 200 250

07 500 750 800 800 650 750 600 450 500 450

08 70 150 150 200 100 200 200 150 150 200

09 30 70 60 70 80 70 50 40 60 50

10 50 60 70 90 60 50 60 50 60 70

11 <15 <15 <15 20 <15 <15 <15 <15 <15 <15

12 <15 <15 <15 <15 <15 <15 <15 <15 <15 <15

13 <15 <15 <15 . <15 <15 <15 <15 <15 <15

14 <15 <15 <15 <15 <15 <15 <15 . <15 <15

15 20 70 90 70 60 60 50 40 70 50

16 20 40 40 30 30 50 40 30 30 30

17 <15 <15 <15 <15 <15 . <15 <15 <15 <15

18 . <15 <15 <15 <15 <15 <15 . <15 <15

19 . <15 <15 <15 <15 <15 <15 <15 <15 <15

20 <15 <15 <15 <15 <15 <15 <15 <15 <15 <15

21 30 60 40 80 50 50 80 50 50 50

22 . <15 <15 . <15 <15 . . . <15

23 . . <15 <15 <15 . . . . .

24 . . . . . . . . <15 <15

25 . . <15 . . <15 . . . .

26 <15 . . <15 <15 . <15 . <15 <15

27 <15 <15 <15 <15 . <15 <15 <15 <15 <15

28 . <15 <15 <15 . . <15 . . .

29 <15 . <15 <15 . . . . <15 <15

30 . . <15 . . . . . . .

31 <15 . <15 . <15 <15 <15 . . .

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

race\_detail: JAN15 MAY15 JUL18

01 63,000 49,500 48,000

02 7,600 6,300 5,600

03 900 850 650

04 3,500 2,600 2,700

05 350 250 200

06 200 200 200

07 450 350 400

08 150 100 150

09 50 40 40

10 70 50 50

11 20 <15 <15

12 <15 <15 <15

13 <15 <15 <15

14 <15 <15 <15

15 50 30 30

16 50 30 20

17 <15 <15 <15

18 . . <15

19 <15 . <15

20 <15 <15 .

21 40 20 20

22 . <15 <15

23 . . <15

24 <15 . .

25 <15 . <15

26 <15 <15 <15

27 <15 . .

28 . . .

29 <15 . .

30 . . .

31 <15 <15 <15

Total 76,500 60,000 58,500

**Hispanic** **HISPANIC**  [Return to Index](#INDEX2)

**DESCRIPTION:** Hispanic origin of the person as collected from the core CPS.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Hispanic |
| 02 — | Non-Hispanic |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

hispanic: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 4,900 1,600 1,500 2,300 2,400 6,700 6,100 6,200 5,000 4,800

02 95,500 28,000 26,000 31,500 31,500 72,500 64,500 62,000 45,500 40,500

-9 1,600 350 350 . . . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

hispanic: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 2,700 7,600 5,500 4,300 8,400 8,500 8,700 6,500 8,400 9,200

02 28,000 82,000 56,500 37,000 80,000 80,500 75,500 58,000 75,000 73,000

-9 . . . . . . . . . .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

hispanic: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 6,700 8,800 8,600 9,000 6,900 6,400

02 54,500 71,500 65,500 67,500 53,500 52,000

-9 . . . . . .

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Hispanic Detail** **HISP\_DETAIL**  [Return to Index](#INDEX2)

**DESCRIPTION:** Detailed Hispanic origin of the person as collected from the core CPS.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Mexican |
| 02 — | Puerto Rican |
| 03 — | Cuban |
| 04 — | Central/South American |
| 05 — | Other Spanish |
| 06 — | All Other |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

hisp\_detail: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 2,600 900 900 1,300 1,400 19,000 16,000 16,000 12,500 11,000

02 700 200 100 300 250 1,900 1,700 1,600 1,200 1,200

03 350 150 100 100 150 1,600 1,500 1,400 1,100 900

04 600 200 150 400 400 700 600 550 450 400

05 650 150 150 250 250 5,600 5,000 4,900 3,700 3,200

06 95,500 28,000 26,000 31,500 31,500 50,000 45,000 43,500 31,000 28,500

-9 1,600 300 350 30 100 350 350 300 400 450

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

hisp\_detail: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 7,900 24,000 17,000 2,600 5,000 5,100 5,400 3,900 5,100 5,500

02 800 2,800 1,900 450 900 900 750 600 750 950

03 650 2,000 1,500 200 350 400 400 300 350 400

04 300 900 600 1,000 2,100 2,100 2,100 1,700 2,200 2,300

05 2,400 7,700 5,300 . . . . . . .

06 18,000 51,500 35,000 . . . . . . .

-9 450 1,000 750 37,000 80,000 80,500 75,500 58,000 75,000 73,000

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

hisp\_detail: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 4,100 5,300 5,200 5,600 4,300 3,800

02 650 850 750 800 650 650

03 300 400 350 400 300 300

04 1,600 2,200 1,700 1,600 1,300 1,100

05 . . 600 650 500 500

06 . . . . . .

-9 54,500 71,500 65,500 67,500 53,500 52,000

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Marital Status** **MARITAL**  [Return to Index](#INDEX2)

**DESCRIPTION:** Marital status of the person as collected from the core CPS.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Married |
| 02 — | Widowed |
| 03 — | Divorced |
| 04 — | Separated |
| 05 — | Never married |

**FREQUENCIES:**

marital: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 61,500 18,500 17,500 20,000 20,000 45,000 39,500 38,000 27,000 24,000

02 7,600 2,300 2,000 2,600 2,500 5,100 3,600 3,600 3,100 2,100

03 6,900 2,400 2,100 3,000 2,900 7,400 6,600 6,500 4,800 4,400

04 2,300 500 500 700 700 1,600 1,400 1,400 1,100 1,100

05 24,000 6,600 5,800 7,200 7,800 20,500 19,500 18,500 14,500 14,000

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

marital: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 18,000 50,000 34,500 22,000 49,000 50,000 46,000 35,000 48,500 46,000

02 2,300 6,200 3,200 2,500 6,000 5,900 5,500 4,200 5,600 5,500

03 3,500 9,000 6,100 4,200 8,800 8,800 8,600 6,600 9,100 9,100

04 750 1,700 1,200 800 1,600 1,600 1,700 1,300 1,600 1,700

05 6,000 23,000 17,000 12,000 23,000 23,000 22,500 17,000 18,500 20,000

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

marital: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 34,000 45,000 40,500 42,000 32,500 32,500

02 4,100 5,400 5,000 5,200 4,100 4,300

03 6,700 9,000 8,600 8,800 7,000 7,200

04 1,300 1,700 1,500 1,600 1,300 1,100

05 14,500 19,000 18,500 19,000 15,000 13,000

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Respondent Relationship CPS** **RELTRF\_CPS**  [Return to Index](#INDEX2)

**DESCRIPTION:** Relationship of respondent to the reference person regarding the CPS labor force questions. Index delineates the CPS labor force related variables from the Tobacco Use Supplement related variables.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Reference person with relationship | |
| 02 — | Reference person without relationship | |
| 03 — | Spouse | |
| 04 — | Child | |
| 05 — | Grandchild | |
| 06 — | Parent | |
| 07 — | Brother/Sister | |
| 08 — | Other Relative or reference person | |
| 09 — | Foster Child | |
| 10 — | Non relative of reference person with relationship | |
| 11 — | Foster Child | |
| 12 — | Non relative of reference person without relationship | |
| 13 — | Unmarried Partner with relationship | |
| 14 — | Unmarried Partner without relationship | |
| 15 — | Housemate/Roommate with relationship | |
| 16 — | Housemate/Roommate without relationship | |
| 17 — | Roomer/Boarder with relationship | |
| 18 — | Roomer/Boarder without relationship | |

**FREQUENCIES:**

reltrf\_cps: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 36,500 11,500 10,500 12,500 12,000 28,000 24,000 23,500 17,000 14,500

02 14,000 4,400 3,900 5,200 5,200 12,500 11,000 10,500 8,100 6,900

03 30,000 600 550 9,800 9,600 22,000 19,500 18,500 13,000 11,500

04 14,500 8,200 7,800 4,100 4,700 10,500 10,500 10,000 7,400 6,900

05 . 3,700 3,400 100 100 400 350 300 250 300

06 650 150 150 350 300 750 650 650 600 600

07 900 100 100 250 200 700 700 650 600 550

08 1,600 150 150 400 350 950 900 800 800 850

09 . 200 150 <15 20 30 30 20 30 <15

10 300 250 250 40 60 150 100 100 100 90

11 . <15 <15 . . . . . . .

12 2,900 80 90 100 100 450 400 350 350 350

13 . 500 400 70 60 150 150 150 100 100

14 . 250 200 350 350 1,200 1,100 1,200 950 1,100

15 . . . 50 30 100 80 80 80 70

16 . . . 350 350 1,100 1,100 900 850 950

17 . . . <15 <15 <15 <15 <15 <15 30

18 . . . 70 70 200 200 200 200 200

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

reltrf\_cps: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 14,000 31,000 21,500 13,500 30,500 31,000 29,000 22,500 30,500 29,500

02 6,700 15,500 10,000 7,300 15,500 15,500 15,000 11,500 15,000 15,500

03 6,900 24,000 17,000 10,500 23,500 24,000 22,000 16,500 23,000 21,500

04 1,600 11,500 8,400 5,700 11,500 11,500 11,000 8,200 7,000 7,600

05 60 400 300 200 400 400 400 300 250 350

06 200 1,100 700 550 1,100 1,200 1,100 950 1,300 1,400

07 150 850 550 400 850 850 800 750 850 900

08 150 1,100 750 550 1,000 1,100 1,000 800 950 1,200

09 <15 40 20 20 30 30 20 20 <15 <15

10 20 150 80 70 150 100 150 100 100 70

11 . . . . . . . . . .

12 80 550 350 250 450 450 400 300 350 400

13 60 150 100 100 150 150 150 100 150 70

14 500 1,700 1,200 950 1,700 1,700 1,800 1,500 1,900 2,300

15 30 90 60 60 90 70 80 60 90 90

16 350 1,100 850 650 1,000 1,100 1,000 750 950 1,000

17 <15 <15 <15 <15 30 <15 <15 <15 20 20

18 50 250 150 100 200 250 200 150 250 250

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

reltrf\_cps: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 22,000 29,000 27,000 27,500 21,500 21,500

02 11,500 15,000 14,500 15,000 12,500 13,500

03 16,000 21,000 19,000 19,500 15,000 15,000

04 5,500 7,100 6,800 7,000 5,400 3,700

05 250 300 350 350 300 200

06 1,000 1,400 1,400 1,400 1,000 900

07 650 850 800 800 650 450

08 800 1,100 950 950 800 450

09 20 20 <15 <15 <15 <15

10 80 90 70 70 60 40

11 . . . . . .

12 250 350 250 350 250 200

13 100 150 150 150 100 60

14 1,600 2,200 2,200 2,300 1,900 1,900

15 50 70 90 60 60 40

16 700 950 900 900 650 500

17 <15 30 <15 <15 20 <15

18 150 200 150 150 100 100

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Education Level** **EDUCATION**  [Return to Index](#INDEX3)

**DESCRIPTION:** Educational grade completed by the respondent.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | less than 1st grade |
| 02 — | 1st, 2nd, 3rd, or 4th grade |
| 03 — | 5th or 6th grade |
| 04 — | 7th and 8th grade |
| 05 — | 9th grade |
| 06 — | 10th grade |
| 07 — | 11th and 12th grade (no diploma) |
| 08 — | HS graduate, high school diploma, or equivalent |
| 11 — | Some college or Associate degree |
| 12 — | Bachelor’s degree (e.g. BA, AB, BS) |
| 13 — | Master’s Degree |
| 14 — | Graduate Degree |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

education: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 500 100 100 150 150 300 250 200 150 150

02 1,400 300 250 300 300 650 550 500 400 350

03 2,100 450 450 550 500 1,200 1,000 1,000 800 700

04 7,300 1,600 1,600 1,500 1,800 2,800 2,500 2,800 2,200 2,000

05 4,000 1,100 950 1,200 1,400 3,000 2,600 2,500 2,300 1,900

06 6,200 1,400 1,300 1,600 1,500 3,700 3,100 3,100 2,300 2,200

07 5,400 1,700 1,600 1,800 1,900 4,700 4,300 3,800 3,000 2,600

08 39,500 10,000 9,400 11,000 10,500 25,000 21,500 20,500 15,500 14,000

11 18,500 7,200 6,600 8,500 8,000 20,000 18,500 17,500 12,500 11,500

12 10,500 3,900 3,600 4,700 4,800 12,000 11,000 10,500 7,700 6,900

13 2,000 1,400 1,300 1,600 1,600 4,100 3,600 3,600 2,500 2,200

14 4,800 550 550 650 750 1,800 1,600 1,700 1,000 950

-9 . 150 150 <15 450 . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

education: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 100 250 150 150 300 250 250 250 250 250

02 250 650 400 300 650 650 600 450 600 550

03 450 1,300 800 600 1,300 1,200 1,100 850 1,100 1,000

04 1,100 3,000 2,100 1,700 3,200 2,800 2,900 1,700 2,100 1,800

05 750 3,200 2,200 1,700 3,100 3,200 3,000 2,100 1,400 1,400

06 1,100 4,000 2,700 1,700 3,700 3,700 3,500 2,600 1,900 1,900

07 1,600 5,000 3,500 2,300 5,000 5,100 4,800 3,600 4,000 4,000

08 9,700 27,500 18,500 12,500 27,000 27,500 25,000 19,500 26,000 25,000

11 7,900 23,500 16,000 10,500 22,500 23,000 22,000 17,000 23,000 23,000

12 5,200 14,000 10,000 6,600 14,500 14,500 14,000 11,000 15,000 15,000

13 1,700 5,000 3,600 2,300 5,100 5,200 5,200 4,000 5,500 6,000

14 800 2,200 1,500 950 2,100 2,200 2,100 1,700 2,200 2,200

-9 . . . . . . . . . .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

education: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 200 250 150 200 150 100

02 400 500 400 450 350 250

03 750 1,000 800 900 650 500

04 1,200 1,600 1,200 1,300 1,100 800

05 1,000 1,300 950 1,100 900 700

06 1,300 1,600 1,200 1,300 1,200 900

07 2,400 3,400 2,500 3,300 2,800 1,700

08 18,500 24,500 22,000 22,000 17,500 16,000

11 17,500 22,500 22,000 22,000 17,000 16,500

12 11,500 15,000 14,500 15,000 11,500 13,000

13 4,500 6,100 6,200 6,300 5,000 5,700

14 1,700 2,300 2,300 2,400 1,800 2,100

-9 . . . . . .

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Family Income** **INCOME**  [Return to Index](#INDEX3)

**DESCRIPTION:** Family income; the combined income of all family members (15 years of age or older) during the previous 12 months. Family income includes money from jobs, net income from business, farm or rent, pensions, dividends, interest, and social security payments.

This response was captured in a set of income categories (whose values changed over time). The **median of the category** is used to estimate the income value. For the largest category (e.g. $100,000 or more), we closed the interval and assigned the income value to be the median of the resulting interval.

**Note 1:** Values have been inflation-adjusted to 2010 dollars using the CPI.

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| Dollar value — | Family income inflated to 2010 dollars |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

income: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

Dollar value 97,500 . . . . 72,500 64,000 62,000 45,500 41,000

-9 4,500 30,000 27,500 33,500 33,500 6,500 6,700 6,100 5,100 4,400

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

income: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

Dollar value 26,500 79,000 54,500 37,000 78,000 76,500 74,500 56,000 72,500 82,500

-9 4,100 10,500 7,300 4,300 10,500 13,000 9,700 8,400 10,500 .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

income: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

Dollar value 61,000 80,000 74,500 76,500 60,000 58,500

-9 . . . . . .

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Citizenship Status** **CITIZENSHIP**  [Return to Index](#INDEX3)

**DESCRIPTION:** Citizenship status of the person as collected in the core CPS.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** JAN96–JUL18

|  |  |
| --- | --- |
| **VALID CODES** | |
| 01 — | Native, born in the U.S. | |
| 02 — | Native, born in PR or U.S. outlying area | |
| 03 — | Native, born abroad of U.S. parents | |
| 04 — | Foreign born, U.S. citizenship by naturalization | |
| 05 — | Foreign born, NOT a U.S. Citizen | |
| -7 — | Question not asked this cohort (omitted from frequency table below) | |

**FREQUENCIES:**

citizenship: JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00 JUN01 NOV01 FEB02

01 30,000 30,500 70,000 62,500 60,000 44,000 39,000 27,000 79,000 54,500

02 200 150 400 400 400 300 250 200 450 350

03 300 250 700 600 550 350 400 200 650 500

04 1,200 1,200 3,200 2,800 2,900 2,100 2,000 1,500 3,900 2,600

05 1,800 1,700 4,700 4,500 4,300 3,500 3,600 1,900 5,600 4,000

Total 33,500 33,500 79,000 70,500 68,000 50,500 45,000 30,500 90,000 62,000

citizenship: FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10 AUG10 JAN11 JUL14

01 36,000 77,500 78,000 73,500 56,000 72,000 70,500 52,500 68,500 64,000

02 200 450 450 400 300 450 450 350 400 350

03 350 700 700 700 500 650 650 500 700 600

04 1,800 4,200 4,100 4,100 3,300 4,300 4,800 3,700 4,900 4,700

05 2,900 5,600 5,700 5,700 4,300 5,600 5,800 4,100 5,400 4,800

Total 41,000 88,500 89,000 84,000 64,500 83,000 82,500 61,000 80,000 74,500

citizenship: JAN15 MAY15 JUL18

01 66,000 52,000 50,500

02 400 300 350

03 650 500 450

04 4,700 3,700 3,700

05 5,000 3,800 3,300

Total 76,500 60,000 58,500

**Veteran Status** **VETERAN**  [Return to Index](#INDEX3)

**DESCRIPTION:** Veteran’s period of service

SAS Type: CHAR

SAS Format: $2

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | September 2001 or later |
| 02 — | August 1990 to August 2001 |
| 03 — | May 1975 to July 1990 |
| 04 — | Vietnam era (Aug 1964 to Apr 1975) |
| 05 — | February 1955 to July 1964 |
| 06 — | Korean War (July 1950 to January 1955) |
| 07 — | January 1947 to June 1950 |
| 08 — | World War II (December 1941 to December 1946) |
| 09 — | November 1941 to December 1918 |
| 10 — | World War I (April 1917-November 1918) |
| 11 — | Other service period (outside of a named conflict) |
| 12 — | Nonveteran |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

veteran: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 . . . . . . . . . .

02 . . . . . . . . . .

03 . . . . . . . . . .

04 4,700 1,400 1,200 1,400 1,400 3,100 2,800 2,600 1,800 1,500

05 . . . . . . . . . .

06 2,600 750 700 750 650 1,400 900 950 850 550

07 . . . . . . . . . .

08 5,500 1,300 1,200 1,300 1,300 2,100 1,200 1,300 1,100 650

09 . . . . . . . . . .

10 100 <15 <15 <15 <15 . . <15 . .

11 3,400 1,000 1,000 1,300 1,300 3,100 2,800 2,700 2,000 1,900

12 85,500 25,500 23,500 29,000 28,500 69,500 63,000 60,500 44,500 40,500

-9 . 150 150 30 500 . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

veteran: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 . . . . . . 400 350 450 600

02 . . . . . . 950 750 1,000 900

03 . . . . . . 1,600 1,100 1,700 1,500

04 1,300 3,400 2,300 1,400 3,300 3,300 2,700 2,000 2,700 2,400

05 . . . . . . 1,200 950 1,300 1,000

06 600 1,600 850 550 1,500 1,400 950 750 950 800

07 . . . . . . 250 150 150 150

08 750 2,100 900 800 1,900 1,700 1,000 800 1,000 650

09 . . . . . . 20 <15 <15 <15

10 . <15 . . . . . . . .

11 1,300 3,600 2,400 1,600 3,400 3,400 . . . .

12 26,500 79,000 55,500 36,500 78,500 79,500 75,000 57,500 74,000 74,000

-9 150 . . . . . . . . .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

veteran: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 450 650 800 900 800 850

02 700 950 900 900 700 650

03 1,100 1,500 1,300 1,400 1,000 1,000

04 1,800 2,600 2,200 2,200 1,700 1,700

05 800 1,100 750 850 650 600

06 600 700 450 450 350 300

07 80 150 60 60 60 30

08 450 550 250 250 150 80

09 <15 <15 <15 <15 . .

10 . . . . . .

11 . . . . . .

12 55,000 72,000 . . . .

-9 . . 67,500 69,500 55,000 53,000

Total 61,000 80,000 74,500 76,500 60,000 58,500

**FIPS State Code** **STATE\_FIPS** [Return to Index](#INDEX3)

**DESCRIPTION:** State and District (DC) numeric codes. Codes are determined according to the Federal Information Processing Standard (FIPS) for States and certain associated areas.

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** N/A

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VALID CODES** | | | | |
| 01 — | AL Alabama | 29 — | MO Missouri |
| 02 — | AK Alaska | 30 — | MT Montana |
| 04 — | AZ Arizona | 31 — | NE Nebraska |
| 05 — | AR Arkansas | 32 — | NV Nevada |
| 06 — | CA California | 33 — | NH New Hampshire |
| 08 — | CO Colorado | 34 — | NJ New Jersey |
| 09 — | CT Connecticut | 35 — | NM New Mexico |
| 10 — | DE Delaware | 36 — | NY New York |
| 11 — | DC District of Columbia | 37 — | NC North Carolina |
| 12 — | FL Florida | 38 — | ND North Dakota |
| 13 — | GA Georgia | 39 — | OH Ohio |
| 15 — | HI Hawaii | 40 — | OK Oklahoma |
| 16 — | ID Idaho | 41 — | OR Oregon |
| 17 — | IL Illinois | 42 — | PA Pennsylvania |
| 18 — | IN Indiana | 44 — | RI Rhode Island |
| 19 — | IA Iowa | 45 — | SC South Carolina |
| 20 — | KS Kansas | 46 — | SD South Dakota |
| 21 — | KY Kentucky | 47 — | TN Tennessee |
| 22 — | LA Louisiana | 48 — | TX Texas |
| 23 — | ME Maine | 49 — | UT Utah |
| 24 — | MD Maryland | 50 — | VT Vermont |
| 25 — | MA Massachusetts | 51 — | VA Virginia |
| 26 — | MI Michigan | 53 — | WA Washington |
| 27 — | MN Minnesota | 54 — | WV West Virginia |
| 28 — | MS Mississippi | 55 — | WI Wisconsin |
|  |  | 56 — | WY Wyoming |

**FIPS County Code** **COUNTY\_FIPS**  [Return to Index](#INDEX3)

**DESCRIPTION:** County or independent city codes. County codes are determined according to the Federal Information Processing Standard (FIPS) for counties.

Note: Minor changes occurred over time in the definitions of some geographical areas. These changes are NOT reflected in this variable. The FIPS codes are as of the time of collection.

**TOBACCO USE SUPPLEMENT TYPE OF RESPONDENT:** N/A

SAS Type: CHAR

SAS Format: $3.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| . — | Undefined |
| 001-840 — | County FIPS code |

**Urban/Rural Status** **URBAN\_RURAL**  [Return to Index](#INDEX3)

**DESCRIPTION:** 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 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: The qualifiers for urban areas changed over time, specifically around the 2020 Census.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Urban |
| 02 — | Rural |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

urban\_rural: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 72,000 20,500 18,500 23,500 24,000 57,000 50,500 49,000 36,500 33,000

02 30,000 9,600 9,300 9,900 9,700 22,500 20,000 19,000 14,000 12,000

-9 . . . . . . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

urban\_rural: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 22,500 63,500 44,000 29,000 62,000 62,500 63,000 48,000 62,000 62,000

02 8,300 26,000 18,000 12,000 26,000 26,500 21,500 16,500 21,000 20,000

-9 . . . . . . . . . .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

urban\_rural: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 45,500 60,500 52,500 54,000 43,000 43,500

02 15,500 19,500 16,000 17,500 14,500 14,000

-9 . . 5,600 5,000 2,700 1,200

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Employment Status** **EMPLOYMENT**  [Return to Index](#INDEX3)

**DESCRIPTION:** Describes the employment status of the respondent.

Note: In the 1985 cohort, Not in Labor Force, retired & other are represented by the same category (05).

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Employed, at work |
| 02 — | Employed, absent from work |
| 03 — | Unemployed, on layoff |
| 04 — | Unemployed, looking for work |
| 05 — | Not in the labor force, retired |
| 06 — | Not in the labor force, disabled |
| 07 — | Not in the labor force, other |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

employment: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 59,500 17,500 16,000 19,500 20,000 48,500 45,500 44,000 31,000 29,500

02 2,700 600 650 1,100 750 2,100 1,600 1,400 1,100 900

03 . 250 150 300 150 250 500 200 350 150

04 4,300 1,100 850 950 950 2,100 1,900 1,700 1,400 1,200

05 . . . 5,800 5,900 12,500 8,500 8,500 7,100 4,900

06 1,300 . . 1,400 1,400 3,000 2,400 2,500 1,900 1,600

07 34,000 11,000 9,800 4,600 4,500 11,000 10,500 9,600 7,600 7,000

-9 . . . . . . . . . .

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

employment: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 19,000 54,500 39,000 24,500 52,000 54,000 51,000 38,000 52,000 49,000

02 1,200 1,800 1,200 800 3,000 1,600 1,700 3,000 1,900 1,500

03 100 400 450 350 400 350 300 250 650 450

04 750 2,500 2,100 1,500 3,300 2,800 2,100 1,700 2,000 4,200

05 5,300 15,000 8,000 5,900 15,000 14,500 14,000 10,500 14,500 14,500

06 1,300 3,700 2,200 1,600 3,700 4,000 3,800 2,900 4,100 4,500

07 3,100 11,500 8,800 6,300 11,000 12,000 11,500 8,100 8,400 8,500

-9 150 . . . . . . . . .

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

employment: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 35,000 46,500 42,500 45,000 36,000 33,000

02 2,600 1,600 3,400 1,400 1,000 2,400

03 350 700 400 450 200 250

04 3,200 4,100 2,500 2,400 1,800 1,100

05 10,500 14,500 14,000 15,000 11,500 13,500

06 3,100 4,300 4,400 4,600 3,600 3,300

07 6,200 8,300 7,300 8,000 6,100 4,800

-9 . . . . . .

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Industry Using 2010 Codes** **IND\_2010**  [Return to Index](#INDEX3)

**DESCRIPTION:** Job specific 2010 industrial classification codes. Specific codes for industries are given in [Appendix D](#APP_D) and a description of the harmonization process is in [Appendix B](#APP_B).

SAS Type: CHAR

SAS Format: $4

**COHORTS AVAILABLE:** All cohorts

**Major Industry Classification Recode 1** **IND\_2010\_1**  [Return to Index](#INDEX3)

**DESCRIPTION:** Major industry classification recode for the 2010 industry classifications.

SAS Type: CHAR

SAS Format: $2

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 00 — | No industry recode |
| 01 — | Agriculture, forestry, fishing, hunting, mining |
| 02 — | Construction and utilities |
| 03 — | Durable and non-durable goods manufacturing |
| 04 — | Wholesale and retail Trade |
| 05 — | Transportation and warehousing |
| 06 — | Information |
| 07 — | Finance, insurance, real estate, rental, leasing |
| 08 — | Prof, tech, manage, admin, waste services |
| 09 — | Educational services |
| 10 — | Health care and social assistance |
| 11 — | Arts, entertain, recreat, accomodat, food service |
| 12 — | Private household and other services |
| 13 — | Public administration |
| 14 — | Military services |

**FREQUENCIES:**

ind\_2010\_1: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

00 33,000 11,000 8,500 11,000 12,000 25,500 21,000 20,500 16,500 13,500

01 2,900 600 750 850 700 1,700 1,400 1,400 950 850

02 5,500 1,300 1,400 1,600 1,500 3,800 3,700 3,600 2,700 2,600

03 12,500 3,100 3,200 3,500 3,300 7,700 7,000 6,700 4,600 4,300

04 11,000 2,900 3,000 3,400 3,300 8,200 7,700 7,300 5,300 4,800

05 2,900 800 800 950 850 2,300 2,200 2,000 1,500 1,400

06 1,700 400 400 450 450 1,300 1,300 1,100 800 800

07 4,300 1,200 1,200 1,400 1,400 3,600 3,300 3,200 2,200 2,100

08 4,500 1,500 1,400 1,900 1,800 5,000 4,500 4,700 3,400 3,100

09 5,300 1,700 1,700 1,900 2,100 4,400 4,300 4,100 2,700 2,500

10 6,400 2,200 2,100 2,600 2,500 6,100 5,600 5,500 3,800 3,500

11 5,300 1,400 1,500 1,700 1,600 4,500 4,000 4,000 2,900 2,800

12 3,700 900 900 1,100 1,000 2,500 2,300 2,200 1,600 1,600

13 3,200 1,000 850 1,100 1,000 2,400 2,400 2,100 1,400 1,400

14 40 <15 <15 <15 <15 <15 <15 <15 <15 <15

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

ind\_2010\_1: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

00 9,800 30,000 19,000 14,000 29,500 30,500 28,500 22,000 26,500 27,000

01 550 1,600 1,100 600 1,600 1,600 1,500 1,300 1,500 1,400

02 1,700 4,800 3,300 2,100 5,000 4,800 4,700 3,800 5,000 4,300

03 3,000 7,800 5,600 3,200 6,900 6,900 6,100 4,500 6,200 5,600

04 3,000 9,000 6,400 4,100 8,600 9,000 8,200 6,100 7,900 7,700

05 1,000 2,600 1,900 1,100 2,300 2,300 2,200 1,800 2,400 2,200

06 550 1,500 1,100 750 1,600 1,400 1,300 1,000 1,400 1,200

07 1,400 4,000 2,900 1,800 3,900 4,200 4,000 3,000 4,100 3,700

08 2,300 5,800 4,200 2,800 5,800 5,700 5,600 4,400 5,900 6,000

09 1,700 5,300 3,900 2,400 5,000 5,400 5,100 3,500 5,500 5,400

10 2,400 7,200 5,200 3,300 6,900 7,100 6,800 5,200 7,100 7,500

11 1,500 4,900 3,500 2,500 5,300 4,900 4,700 3,800 4,400 4,700

12 900 2,800 2,000 1,300 2,900 2,900 2,700 2,100 2,600 2,500

13 1,000 2,800 1,900 1,200 2,800 2,700 2,600 2,000 2,800 2,900

14 <15 <15 <15 <15 <15 20 <15 <15 <15 <15

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

ind\_2010\_1: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

00 20,000 26,500 25,500 27,000 21,000 21,500

01 1,100 1,400 1,400 1,500 1,300 1,000

02 3,200 4,000 3,700 3,600 2,900 2,900

03 4,200 5,500 4,900 5,000 3,800 3,600

04 5,600 7,400 6,700 6,700 5,200 4,700

05 1,600 2,100 2,000 2,100 1,500 1,600

06 900 1,200 1,000 1,000 700 700

07 2,700 3,600 3,200 3,300 2,500 2,600

08 4,500 5,900 5,600 5,600 4,400 4,500

09 3,700 5,300 4,400 5,000 4,000 3,300

10 5,600 7,400 6,600 6,700 5,400 5,200

11 3,600 4,500 4,300 4,200 3,400 3,000

12 1,900 2,400 2,500 2,400 1,900 1,900

13 2,100 2,700 2,500 2,500 2,000 2,000

14 <15 20 <15 <15 <15 <15

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Major Industry Classification Recode 2** **IND\_2010\_2**  [Return to Index](#INDEX3)

**DESCRIPTION:** Major industry classification recode for the 2010 industry classifications.

SAS Type: CHAR

SAS Format: $2

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 00 — | No industry recode |
| 01 — | Agriculture, Forestry, Fishing, Hunting |
| 02 — | Mining |
| 03 — | Construction |
| 04 — | Non-Durable Goods Manufacturing |
| 05 — | Durable Goods Manufacturing |
| 06 — | Wholesale Trade |
| 07 — | Retail Trade |
| 08 — | Transportation & Warehousing |
| 09 — | Utilities |
| 10 — | Information |
| 11 — | Finance & Insurance |
| 12 — | Real Estate, Rental, and Leasing |
| 13 — | Professional and Technical Services |
| 14 — | Management, Administrative, Waste Services |
| 15 — | Educational Services |
| 16 — | Health care and social assistance |
| 17 — | Arts, entertainment, and recreation |
| 18 — | Accommodations and food services |
| 19 — | Private households |
| 20 — | Other services except private households |
| 21 — | Public administration |
| 22 — | Military services |

**FREQUENCIES:**

ind\_2010\_2: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

00 33,000 11,000 8,500 11,000 12,000 25,500 21,000 20,500 16,500 13,500

01 2,200 500 600 650 600 1,400 1,100 1,100 750 700

02 700 100 150 150 100 350 300 300 200 150

03 4,700 1,100 1,100 1,400 1,300 3,400 3,300 3,100 2,400 2,300

04 5,000 1,200 1,300 1,500 1,300 3,000 2,700 2,700 1,800 1,700

05 7,500 1,900 1,900 2,000 2,000 4,700 4,300 4,000 2,800 2,700

06 2,700 750 700 800 800 2,000 1,800 1,800 1,300 1,200

07 8,100 2,200 2,300 2,600 2,500 6,200 5,800 5,500 4,000 3,600

08 2,900 800 800 950 850 2,300 2,200 2,000 1,500 1,400

09 750 200 250 200 250 450 400 450 250 300

10 1,700 400 400 450 450 1,300 1,300 1,100 800 800

11 3,200 850 900 1,000 1,000 2,600 2,300 2,300 1,600 1,500

12 1,100 350 350 400 450 1,000 950 850 600 600

13 2,300 850 750 1,000 950 2,700 2,500 2,600 1,900 1,700

14 2,100 650 650 850 850 2,300 2,000 2,100 1,500 1,400

15 5,300 1,700 1,700 1,900 2,100 4,400 4,300 4,100 2,700 2,500

16 6,400 2,200 2,100 2,600 2,500 6,100 5,600 5,500 3,800 3,500

17 850 300 300 350 350 900 800 850 550 550

18 4,500 1,100 1,200 1,300 1,300 3,600 3,200 3,100 2,400 2,300

19 850 150 150 200 150 400 350 350 250 250

20 2,800 750 750 900 900 2,100 1,900 1,800 1,300 1,300

21 3,200 1,000 850 1,100 1,000 2,400 2,400 2,100 1,400 1,400

22 40 <15 <15 <15 <15 <15 <15 <15 <15 <15

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

ind\_2010\_2: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

00 9,800 30,000 19,000 14,000 29,500 30,500 28,500 22,000 26,500 27,000

01 400 1,300 850 450 1,300 1,300 1,200 950 1,100 1,100

02 150 350 250 150 300 300 300 300 400 400

03 1,500 4,300 3,000 1,900 4,400 4,300 4,300 3,400 4,600 3,900

04 1,100 3,000 2,200 1,200 2,600 2,500 2,200 1,700 2,300 2,100

05 1,900 4,700 3,400 2,000 4,300 4,400 3,900 2,800 3,900 3,500

06 800 2,100 1,600 800 1,800 2,000 1,700 1,300 1,800 1,500

07 2,200 6,900 4,800 3,300 6,800 6,900 6,500 4,800 6,200 6,200

08 1,000 2,600 1,900 1,100 2,300 2,300 2,200 1,800 2,400 2,200

09 150 500 350 200 550 500 450 400 450 450

10 550 1,500 1,100 750 1,600 1,400 1,300 1,000 1,400 1,200

11 1,000 2,900 2,100 1,300 2,800 3,000 2,800 2,100 2,800 2,700

12 400 1,100 750 500 1,100 1,200 1,200 900 1,300 1,000

13 1,200 3,300 2,400 1,600 3,400 3,400 3,300 2,600 3,500 3,500

14 1,000 2,500 1,800 1,200 2,400 2,300 2,300 1,800 2,300 2,500

15 1,700 5,300 3,900 2,400 5,000 5,400 5,100 3,500 5,500 5,400

16 2,400 7,200 5,200 3,300 6,900 7,100 6,800 5,200 7,100 7,500

17 350 1,000 700 500 1,300 1,100 1,100 950 1,100 1,200

18 1,200 3,900 2,800 1,900 4,000 3,700 3,600 2,800 3,300 3,500

19 100 350 200 150 350 350 350 250 250 250

20 800 2,500 1,800 1,200 2,500 2,600 2,300 1,900 2,400 2,300

21 1,000 2,800 1,900 1,200 2,800 2,700 2,600 2,000 2,800 2,900

22 <15 <15 <15 <15 <15 20 <15 <15 <15 <15

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

ind\_2010\_2: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

00 20,000 26,500 25,500 27,000 21,000 21,500

01 850 1,000 1,000 1,000 900 750

02 300 350 400 500 350 300

03 2,800 3,600 3,300 3,100 2,600 2,500

04 1,500 2,100 1,900 1,900 1,400 1,300

05 2,700 3,400 3,100 3,200 2,400 2,300

06 1,100 1,400 1,200 1,300 1,000 900

07 4,500 6,000 5,500 5,400 4,200 3,700

08 1,600 2,100 2,000 2,100 1,500 1,600

09 350 450 450 450 350 350

10 900 1,200 1,000 1,000 700 700

11 2,000 2,600 2,300 2,400 1,700 1,800

12 750 1,000 900 950 800 800

13 2,600 3,600 3,500 3,400 2,700 3,100

14 1,900 2,300 2,100 2,100 1,700 1,400

15 3,700 5,300 4,400 5,000 4,000 3,300

16 5,600 7,400 6,600 6,700 5,400 5,200

17 950 1,100 1,200 1,000 800 800

18 2,600 3,400 3,100 3,200 2,600 2,200

19 200 250 250 300 200 200

20 1,800 2,200 2,200 2,100 1,700 1,700

21 2,100 2,700 2,500 2,500 2,000 2,000

22 <15 20 <15 <15 <15 <15

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Occupation Using 2010 Codes** **OCC\_2010**  [Return to Index](#INDEX3)

**DESCRIPTION:** Job specific 2010 occupation classification codes. Specific codes for occupations are given in [Appendix E](#APP_E) and a description of the harmonization process is in [Appendix C](#APP_C).

SAS Type: CHAR

SAS Format: $4

**COHORTS AVAILABLE:** All cohorts

**Major Occupation Classification Recode 1** **OCC\_2010\_1**  [Return to Index](#INDEX3)

**DESCRIPTION:** Major occupation classification recode of 2010 occupation classifications.

SAS Type: CHAR

SAS Format: $2

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 00 — | No occupation recode | |
| 01 — | Management, business & financial | |
| 02 — | Professional and related | |
| 03 — | Service | |
| 04 — | Sales and related | |
| 05 — | Office and administrative support | |
| 06 — | Farming, fishing, & forestry | |
| 07 — | Construction & extraction | |
| 08 — | Installation, maintenance & repair | |
| 09 — | Production | |
| 10 — | Transportation & material moving | |
| 11 — | Armed forces | |

**FREQUENCIES:**

occ\_2010\_1: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

00 33,000 11,000 8,500 11,000 12,000 25,500 21,000 20,500 16,500 13,500

01 8,500 2,800 2,700 3,500 3,400 8,600 7,700 7,600 5,400 4,700

02 11,000 3,600 3,400 4,200 4,200 10,500 9,800 9,700 6,600 6,200

03 10,500 2,700 2,800 3,200 3,000 8,100 7,200 7,100 5,000 4,900

04 8,000 2,200 2,200 2,700 2,600 6,400 6,000 5,700 4,100 3,900

05 11,000 3,000 3,000 3,300 3,200 7,600 7,000 6,500 4,700 4,400

06 950 150 250 250 200 550 450 500 300 300

07 4,200 950 1,000 1,200 1,000 2,700 2,700 2,500 1,900 1,900

08 2,800 700 700 800 800 1,700 1,800 1,700 1,100 1,100

09 7,400 1,800 1,800 2,100 1,900 4,500 4,100 3,800 2,700 2,600

10 4,600 1,200 1,200 1,400 1,300 3,100 3,000 2,900 2,200 2,000

11 40 <15 <15 <15 <15 <15 <15 <15 <15 <15

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

occ\_2010\_1: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

00 9,800 30,000 19,000 14,000 29,500 30,500 28,500 22,000 26,500 27,000

01 3,600 9,800 7,000 4,000 8,600 8,500 8,200 6,400 8,900 8,400

02 4,300 12,000 8,900 5,500 11,500 12,000 11,500 8,700 12,000 12,500

03 2,900 8,800 6,100 4,300 9,700 9,200 9,200 7,200 8,800 9,400

04 2,400 6,900 5,000 3,100 6,600 6,800 6,300 4,500 6,200 5,800

05 2,700 8,100 5,800 3,900 8,300 8,400 7,500 5,800 7,800 7,300

06 150 450 300 200 550 500 450 350 400 400

07 1,200 3,500 2,400 1,600 3,600 3,500 3,500 2,700 3,600 3,100

08 700 2,100 1,400 950 2,000 2,200 2,000 1,600 2,000 1,900

09 1,700 4,400 3,100 1,900 4,100 4,000 3,500 2,700 3,600 3,200

10 1,300 3,700 2,700 1,600 3,500 3,600 3,300 2,600 3,400 3,200

11 <15 <15 <15 <15 <15 20 <15 <15 <15 <15

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

occ\_2010\_1: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

00 20,000 26,500 25,500 27,000 21,000 21,500

01 6,300 8,400 8,100 8,100 6,400 6,600

02 8,900 12,000 11,000 12,000 9,300 9,300

03 6,900 8,900 8,100 8,200 6,600 5,800

04 4,300 5,500 5,000 4,900 3,900 3,500

05 5,400 7,100 6,000 6,100 4,700 4,300

06 350 400 450 400 350 250

07 2,300 2,900 2,500 2,500 2,000 1,800

08 1,400 1,800 1,600 1,700 1,300 1,200

09 2,500 3,200 2,800 2,900 2,200 1,900

10 2,300 3,100 2,800 3,000 2,200 2,200

11 <15 20 <15 <15 <15 <15

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Major Occupation Classification Recode 2** **OCC\_2010\_2**  [Return to Index](#INDEX3)

**DESCRIPTION:** Major occupation classification recode of 2010 occupation classifications.

SAS Type: CHAR

SAS Format: $2

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| 00 — | No occupation recode | |
| 01 — | Management | |
| 02 — | Business & financial operations | |
| 03 — | Computer & mathematical sciences | |
| 04 — | Architecture & engineering | |
| 05 — | Life, physical & social sciences | |
| 06 — | Community & social service | |
| 07 — | Legal | |
| 08 — | Education, training & library | |
| 09 — | Arts, design, entertainment, sports & media | |
| 10 — | Healthcare practitioner & technical | |
| 11 — | Healthcare support | |
| 12 — | Protective services | |
| 13 — | Food preparations and service related | |
| 14 — | Building & grounds cleaning & maintenance | |
| 15 — | Personal care & service | |
| 16 — | Sales and related to sales | |
| 17 — | Office and administrative support | |
| 18 — | Farming, fishing & forestry | |
| 19 — | Construction & extraction | |
| 20 — | Installations, maintenance & repair | |
| 21 — | Production | |
| 22 — | Transportation & material moving | |
| 23 — | Armed Forces | |

**FREQUENCIES:**

occ\_2010\_2: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

00 33,000 11,000 8,500 11,000 12,000 25,500 21,000 20,500 16,500 13,500

01 6,500 2,100 2,000 2,600 2,600 6,500 5,800 5,700 4,000 3,600

02 2,100 700 700 850 800 2,100 1,900 1,900 1,300 1,200

03 650 250 250 300 350 1,000 900 850 650 650

04 1,700 500 450 500 500 1,500 1,400 1,500 1,000 900

05 700 300 250 250 250 550 550 500 350 300

06 700 200 150 250 300 650 600 550 450 400

07 500 200 150 200 200 600 500 600 350 300

08 3,200 1,100 1,100 1,300 1,300 2,700 2,700 2,600 1,700 1,600

09 1,100 300 300 400 400 1,000 950 950 600 600

10 2,400 800 750 950 950 2,400 2,200 2,200 1,400 1,400

11 1,200 350 350 450 400 950 1,000 900 650 600

12 1,100 350 300 350 350 950 900 800 550 550

13 3,500 850 950 1,000 1,000 2,700 2,500 2,400 1,800 1,700

14 2,900 650 750 850 750 2,000 1,600 1,800 1,200 1,100

15 1,700 500 450 600 550 1,400 1,200 1,200 850 800

16 8,000 2,200 2,200 2,700 2,600 6,400 6,000 5,700 4,100 3,900

17 11,000 3,000 3,000 3,300 3,200 7,600 7,000 6,500 4,700 4,400

18 950 150 250 250 200 550 450 500 300 300

19 4,200 950 1,000 1,200 1,000 2,700 2,700 2,500 1,900 1,900

20 2,800 700 700 800 800 1,700 1,800 1,700 1,100 1,100

21 7,400 1,800 1,800 2,100 1,900 4,500 4,100 3,800 2,700 2,600

22 4,600 1,200 1,200 1,400 1,300 3,100 3,000 2,900 2,200 2,000

23 40 <15 <15 <15 <15 <15 <15 <15 <15 <15

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

occ\_2010\_2: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

00 9,800 30,000 19,000 14,000 29,500 30,500 28,500 22,000 26,500 27,000

01 2,700 7,300 5,300 2,900 6,300 6,100 6,000 4,600 6,400 6,000

02 900 2,500 1,700 1,100 2,300 2,300 2,300 1,800 2,500 2,400

03 450 1,100 800 600 1,200 1,400 1,200 900 1,200 1,400

04 650 1,800 1,300 500 1,200 1,200 1,100 800 1,100 1,000

05 250 650 450 300 650 600 550 500 600 600

06 300 800 550 450 950 950 900 750 950 1,000

07 250 700 500 300 650 650 650 500 650 700

08 1,000 3,300 2,500 1,600 3,200 3,600 3,300 2,300 3,600 3,600

09 450 1,000 800 550 1,200 1,100 1,100 850 1,100 1,100

10 900 2,800 2,100 1,200 2,700 2,800 2,700 2,000 2,900 3,000

11 450 1,200 900 600 1,200 1,300 1,200 950 1,200 1,300

12 350 1,100 750 450 1,100 1,100 1,100 850 1,100 1,200

13 900 3,000 2,100 1,500 3,200 3,000 3,000 2,200 2,600 2,800

14 700 2,100 1,400 900 2,300 2,100 2,200 1,700 2,000 2,200

15 500 1,400 1,000 850 1,900 1,700 1,800 1,500 1,800 1,900

16 2,400 6,900 5,000 3,100 6,600 6,800 6,300 4,500 6,200 5,800

17 2,700 8,100 5,800 3,900 8,300 8,400 7,500 5,800 7,800 7,300

18 150 450 300 200 550 500 450 350 400 400

19 1,200 3,500 2,400 1,600 3,600 3,500 3,500 2,700 3,600 3,100

20 700 2,100 1,400 950 2,000 2,200 2,000 1,600 2,000 1,900

21 1,700 4,400 3,100 1,900 4,100 4,000 3,500 2,700 3,600 3,200

22 1,300 3,700 2,700 1,600 3,500 3,600 3,300 2,600 3,400 3,200

23 <15 <15 <15 <15 <15 20 <15 <15 <15 <15

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

occ\_2010\_2: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

00 20,000 26,500 25,500 27,000 21,000 21,500

01 4,600 5,900 5,700 5,600 4,600 4,600

02 1,800 2,400 2,400 2,500 1,800 1,900

03 1,000 1,300 1,400 1,400 1,100 1,200

04 800 1,100 950 1,000 750 800

05 450 550 550 550 400 450

06 700 900 900 900 750 750

07 450 700 600 650 500 500

08 2,400 3,600 2,900 3,300 2,700 2,300

09 850 1,100 1,100 1,000 800 900

10 2,200 2,900 2,800 3,000 2,400 2,400

11 950 1,200 1,100 1,100 850 750

12 900 1,100 950 1,000 750 750

13 2,100 2,700 2,400 2,400 2,000 1,600

14 1,600 2,000 1,900 1,900 1,400 1,300

15 1,400 1,900 1,800 1,800 1,500 1,400

16 4,300 5,500 5,000 4,900 3,900 3,500

17 5,400 7,100 6,000 6,100 4,700 4,300

18 350 400 450 400 350 250

19 2,300 2,900 2,500 2,500 2,000 1,800

20 1,400 1,800 1,600 1,700 1,300 1,200

21 2,500 3,200 2,800 2,900 2,200 1,900

22 2,300 3,100 2,800 3,000 2,200 2,200

23 <15 20 <15 <15 <15 <15

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Class of Worker Recode** **CLASS\_WORK** [Return to Index](#INDEX3)

**DESCRIPTION:** Recode of detailed class of worker variable.

SAS Type: CHAR

SAS Format: $2.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| 01 — | Private industry |
| 02 — | Government |
| 03 — | Self-employed |
| 04 — | Worked without pay |
| 05 — | Never worked |
| -9 — | No response / Not in universe |

**FREQUENCIES:**

class\_work: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

01 50,500 14,000 14,000 16,000 16,000 39,500 37,000 35,500 25,500 24,000

02 10,500 3,300 3,100 3,400 3,600 7,700 7,500 7,000 4,700 4,500

03 7,700 1,600 1,800 2,600 2,600 6,200 5,400 5,100 3,600 3,200

04 400 60 70 30 30 60 60 50 30 30

05 500 150 150 . . . . . . .

-9 32,500 11,000 8,400 12,000 11,500 25,500 21,000 20,500 16,500 13,500

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

class\_work: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

01 15,500 44,500 32,000 20,500 43,500 43,500 40,500 31,500 41,500 40,500

02 3,000 8,900 6,400 3,900 8,600 8,800 8,400 6,200 8,900 8,800

03 2,500 6,500 4,400 2,800 6,600 6,700 6,400 4,900 6,600 5,900

04 <15 50 40 20 70 40 40 40 40 40

05 . . . . . . . . . .

-9 9,800 30,000 19,000 14,000 29,500 30,500 28,500 22,000 26,500 27,000

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

class\_work: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

01 30,000 39,500 36,500 36,500 29,000 27,500

02 6,200 8,400 7,100 7,600 6,000 5,400

03 4,400 5,600 5,200 5,100 4,200 4,000

04 30 30 30 30 20 20

05 . . . . . .

-9 20,000 26,500 25,500 27,000 21,000 21,500

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Record Weight** **TLMS\_WGT1**  [Return to Index](#INDEX3)

**DESCRIPTION**: Final adjusted weight applied to the record based on the eligibility criteria, as previously defined. Initial weights were provided by the survey processing area. Those weights were adjusted as described in the [Introduction](#WEIGHT_Intro).

SAS Type: NUM

SAS Format: 8.

**Mortality Variables**

**National Death Index (NDI)**

All variables that end with the suffix “\_NDI” come directly from the match to the National Death Index. Detail on the values and definitions follow directly from the NDI User’s Guide.

The NDI User’s Guide can be found at <https://www.cdc.gov/nchs/data/ndi/ndi_users_guide.pdf>

**Death Certificate Number** **DEATH\_CERT\_NUMBER**  [Return to Index](#INDEX3)

**DESCRIPTION:** The death certificate number for deaths is provided in the results of the match to the NDI. The death certificate number is unique only within a given year for a given state. Complete identification of a death certificate record would consist of death certificate number, state of death, and year of death. Death certificate numbers are sequential within a given state & year combination and start with ‘000001’.

Note: Death certificate number is blank for those who did not match to a death certificate.

SAS Type: CHAR

SAS Format: $6.

**Year of Death year\_of\_death**  [Return to Index](#INDEX3)

**DESCRIPTION:** Year of death taken from the NDI file.

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |
| --- | --- |
| **VALID CODES** | |
| missing — | Missing |
| 1985–2019 — | Year |

**FREQUENCIES:**

year\_of\_death: SEP85 JAN93 MAY93 JAN96 MAY96 SEP98 JAN99 MAY99 JAN00 MAY00

missing 77,000 20,500 19,000 25,000 25,500 64,500 61,500 59,000 41,000 39,500

1985 200 . . . . . . . . .

1986 750 . . . . . . . . .

1987 800 . . . . . . . . .

1988 800 . . . . . . . . .

1989 850 . . . . . . . . .

1990 900 . . . . . . . . .

1991 850 . . . . . . . . .

1992 900 . . . . . . . . .

1993 900 200 100 . . . . . . .

1994 950 250 250 . . . . . . .

1995 950 300 300 . . . . . . .

1996 950 350 300 250 150 . . . . .

1997 950 350 300 300 300 . . . . .

1998 900 400 350 300 300 100 . . . .

1999 850 400 300 350 300 550 550 350 . .

2000 850 350 350 350 350 550 400 400 300 200

2001 850 350 350 400 350 600 400 400 400 300

2002 900 400 350 400 400 650 400 400 400 250

2003 1,100 400 350 350 350 650 400 450 400 250

2004 1,000 350 350 350 350 650 450 400 450 250

2005 1,000 350 300 350 350 650 400 400 500 250

2006 1,100 350 300 350 350 600 400 400 450 250

2007 1,000 350 350 350 350 650 400 400 400 250

2008 1,100 400 350 400 400 700 400 450 500 300

2009 1,000 350 350 400 350 650 400 450 500 250

2010 1,000 400 400 400 400 700 450 400 450 250

2011 1,100 350 350 400 400 700 400 400 450 300

2012 100 350 350 350 350 700 400 400 400 250

2013 90 350 350 350 300 750 450 450 500 300

2014 100 400 350 350 300 750 450 450 500 250

2015 90 400 350 400 350 750 450 500 550 350

2016 100 350 350 350 300 750 400 450 500 300

2017 150 400 350 350 300 750 450 400 550 300

2018 100 400 350 350 350 750 400 450 550 300

2019 100 350 400 350 300 800 450 400 550 350

Total 102,000 30,000 27,500 33,500 33,500 79,000 70,500 68,000 50,500 45,000

year\_of\_death: JUN01 NOV01 FEB02 FEB03 JUN03 NOV03 MAY06 AUG06 JAN07 MAY10

missing 24,500 72,500 54,500 34,500 73,000 74,000 72,500 55,500 71,500 73,500

1985 . . . . . . . . . .

1986 . . . . . . . . . .

1987 . . . . . . . . . .

1988 . . . . . . . . . .

1989 . . . . . . . . . .

1990 . . . . . . . . . .

1991 . . . . . . . . . .

1992 . . . . . . . . . .

1993 . . . . . . . . . .

1994 . . . . . . . . . .

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1997 . . . . . . . . . .

1998 . . . . . . . . . .

1999 . . . . . . . . . .

2000 . . . . . . . . . .

2001 100 60 . . . . . . . .

2002 250 750 500 . . . . . . .

2003 300 750 400 250 400 70 . . . .

2004 300 800 350 300 800 750 . . . .

2005 300 900 400 350 800 800 . . . .

2006 300 900 400 350 850 850 350 200 . .

2007 300 900 400 350 850 850 750 550 650 .

2008 350 950 400 400 900 900 750 600 800 .

2009 350 900 350 400 900 850 800 650 800 .

2010 350 950 400 350 950 900 850 650 800 400

2011 350 1,000 400 400 1,000 950 850 650 850 750

2012 350 1,000 400 450 950 950 850 700 850 850

2013 400 950 400 400 950 950 900 650 950 850

2014 350 1,100 400 400 1,000 1,000 900 700 950 900

2015 400 1,100 400 450 1,100 1,000 1,000 800 900 950

2016 400 1,000 450 400 950 1,000 950 700 1,000 900

2017 350 1,100 450 400 1,000 1,000 950 800 1,000 1,000

2018 400 1,000 450 450 1,100 1,100 1,000 700 1,000 1,000

2019 400 1,000 500 450 1,000 1,000 1,000 800 1,000 1,000

Total 30,500 90,000 62,000 41,000 88,500 89,000 84,000 64,500 83,000 82,500

year\_of\_death: AUG10 JAN11 JUL14 JAN15 MAY15 JUL18

missing 55,000 73,000 70,500 72,500 57,500 57,500

1985 . . . . . .

1986 . . . . . .

1987 . . . . . .

1988 . . . . . .

1989 . . . . . .

1990 . . . . . .

1991 . . . . . .

1992 . . . . . .

1993 . . . . . .

1994 . . . . . .

1995 . . . . . .

1996 . . . . . .

1997 . . . . . .

1998 . . . . . .

1999 . . . . . .

2000 . . . . . .

2001 . . . . . .

2002 . . . . . .

2003 . . . . . .

2004 . . . . . .

2005 . . . . . .

2006 . . . . . .

2007 . . . . . .

2008 . . . . . .

2009 . . . . . .

2010 150 . . . . .

2011 550 500 . . . .

2012 600 650 . . . .

2013 650 700 . . . .

2014 650 750 300 . . .

2015 700 800 650 650 300 .

2016 700 900 650 750 550 .

2017 750 900 650 850 650 .

2018 700 1,000 700 900 700 200

2019 750 900 700 900 700 600

Total 61,000 80,000 74,500 76,500 60,000 58,500

**Month of Death** **MONTH\_OF\_DEATH**  [Return to Index](#INDEX3)

**DESCRIPTION:** Month taken from the NDI file.

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| missing — | Alive |
| 1-12 — | Month of death |
| 99 — | Undefined |

**Day of Death** **DAY\_OF\_DEATH**  [Return to Index](#INDEX3)

**DESCRIPTION:** Day taken from the NDI file. Day of death is not a prerequisite for matching to a death certificate.

Note: For invalid values of day (e.g. Feb 30th), the day is rounded to the last valid day of that month.

SAS Type: NUM

SAS Format: 8.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |
| --- | --- | --- |
| **VALID CODES** | | |
| missing — | Alive |
| 1-31 — | Day of month |
| 99 — | Undefined |

**State of Death—Alpha** **STATE\_OF\_DEATH\_ALPHA** [Return to Index](#INDEX3)

**DESCRIPTION:** State of death taken from the NDI file.

SAS Type: CHAR

SAS Format: $3.

**COHORTS AVAILABLE:** All cohorts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VALID CODES** | | | | | | |
| blank — | | Undefined | MT — | Montana | |
| AK — | Alaska | NC — | North Carolina |
| AL — | Alabama | ND — | North Dakota |
| AR — | Arkansas | NE — | Nebraska |
| AZ — | Arizona | NH — | New Hampshire |
| CA — | California | NJ — | New Jersey |
| CO — | Colorado | NM — | New Mexico |
| CT — | Connecticut | NV — | Nevada |
| DC — | District of Columbia | NY — | New York |
| DE — | Delaware | NYC — | New York City |
| FL — | Florida | OH — | Ohio |
| GA — | Georgia | OK — | Oklahoma |
| GU — | Guam | OR — | Oregon |
| HI — | Hawaii | PA — | Pennsylvania |
| IA — | Iowa | PR — | Puerto Rico |
| ID — | Idaho | RI — | Rhode Island |
| IL — | Illinois | RW — | Rest of the world |
| IN — | Indiana | SC — | South Carolina |
| KS — | Kansas | SD — | South Dakota |
| KY — | Kentucky | TN — | Tennessee |
| LA — | Louisiana | TX — | Texas |
| MA — | Massachusetts | UT — | Utah |
| MD — | Maryland | VA — | Virginia |
| ME — | Maine | VT — | Vermont |
| MI — | Michigan | WA — | Washington |
| MN — | Minnesota | WI — | Wisconsin |
| MO — | Missouri | WV — | West Virginia |
| MS — | Mississippi | WY — | Wyoming | | |

**Underlying Cause of Death** **UCAUSE**  [Return to Index](#INDEX3)

**DESCRIPTION:** Underlying cause of death taken from the NDI file.

Note: ICD-9 four digit codes begin with a numerical first digit. ICD-10 codes begin with an alphabetical first digit.

From the NDI User’s Guide: Whenever the ICD code has four positions, an implied decimal occurs after the third position. Position 4 is blank for those causes that do not have a fourth digit. Also note that the ICD–9 codes for External Causes of Death are actually E800–E999; however, for data processing purposes, NCHS never includes the letter “E” in positions 1-4. Any 800–999 codes in positions 1-4 are external cause codes. Do not confuse these external cause codes with the ICD–9 Nature of Injury codes, which can appear only in the multiple cause data fields for entity-axis conditions and for record-axis conditions. Nature of Injury codes are never used for the underlying cause of death.

SAS Type: CHAR

SAS Format: $4.

**COHORTS AVAILABLE:** All cohorts

**113 Selected Causes of Death recode** **CAUSE113**  [Return to Index](#INDEX3)

**DESCRIPTION**:In 1999, the CDC’s National Center for Health Statistics published a standardized list of 113 selected causes of death This allowed for assigning common causes of death across the definitions developed for ICD-9 and ICD-10.

SAS Type: CHAR

SAS Format: $3.

**COHORTS AVAILABLE:** All Cohorts

**VALID CODES** – See [Appendix A](#APP_A)

**Contributing Causes of Death from NDI** **COND\_01 – COND\_20**  [Return to Index](#INDEX3)

**DESCRIPTION**: Each death certificate may have up to 20 contributing causes; COND\_01 - COND\_20. There are 7 positions for each condition. Certificates that have less than 20 conditions will have blank values for the remaining contributing causes.

Position 1 (Line indicator): The first character represents the line of the death certificate on which the cause of death appears. Six lines (1–6) are allowable, with the fourth and fifth denoting one or two written as “due to” beyond the three lines provided in Part I of the U.S. standard certificate of death. Line 6 represents Part II of the certificate.

Position 2 (Position indicator): The next character indicates the position of the cause of death on the line [i.e., first (1), second (2), third (3), and up to the eighth (8) cause of death on the line].

**Position 3-6 (Cause category): The next four characters represent the ICD–9 or ICD–10 cause of death code.**

Note:ICD-9 four digit codes begin with a numerical first digit. ICD-10 codes begin with an alphabetical first digit**.**

Position 7 (Nature of injury flag): ICD–9 uses the same series of numbers (800–999) to indicate nature of injury (N codes) and external cause of death codes (E codes). This character distinguishes between the two with a one (1) representing nature of injury codes and a zero (0) representing all other cause of death codes. (Note: ICD–10 nature of injury codes are S000–T983 and do not have a flag of one (1) at the seventh position; the seventh position is blank.)

SAS Type: CHAR

SAS Format: $7.

# APPENDICES

1. [NCHS 113 Causes of Death for ICD-10](#APP_A)
2. [U.S. Census Bureau Industry Classification](#APP_B)
3. [U.S. Census Bureau Occupation Classification](#APP_C)
4. [2010 Census Industry Codes](#APP_D)
5. [2010 Census Occupation Codes](#APP_E)

**Appendix A:** **NCHS 113 Causes of Death**

In 1999, the CDC’s National Center for Health Statistics published a standardized list of 113 selected causes of death. This allowed for assigning common causes of death across the definitions developed for ICD-9 and ICD-10.

1. Salmonella infections [002–003] [A01–A02]
2. Shigellosis and amebiasis [004,006] [A03, A06]
3. Certain other intestinal infections [007–009] [A04, A07–A09]
4. Respiratory tuberculosis [010–012] [A16]
5. Other tuberculosis [013–018] [A17–A19]
6. Whooping cough [033] [A37]
7. Scarlet fever and erysipelas [034.1–035] [A38, A46]
8. Meningococcal infection [036] [A39]
9. Septicemia [038] [A40–A41]
10. Syphilis [090–097] [A50–A53]
11. Acute poliomyelitis [045] [A80]
12. Arthropod-borne viral encephalitis [062–064] [A83–A84, A85.2]
13. Measles [055] [B05]
14. Viral hepatitis [070] [B15–B19]
15. Human immunodeficiency virus (HIV) disease [042–044] [B20–B24]
16. Malaria [084] [B50–B54]
17. Other and unspecified infectious and parasitic diseases and their sequelae [001, 005, 020–032, 037, 039–041, 046–054, 056–061, 065–066, 071–083, 085–088, 098–134, 136, 139, 771.3] [A00, A05, A20–A36, A42–A44, A48–A49, A54–A79, A81–A82, A85.0–A85.1, A85.8, A86–B04, B06–B09, B25–B49, B55–B99]
18. Malignant neoplasms of lip, oral cavity and pharynx [140–149] [C00–C14]
19. Malignant neoplasm of esophagus [150] [C15]
20. Malignant neoplasm of stomach [151] [C16]
21. Malignant neoplasms of colon, rectum and anus [153–154] [C18–C21]
22. Malignant neoplasms of liver and intrahepatic bile ducts [155] [C22]
23. Malignant neoplasm of pancreas [157] [C25]
24. Malignant neoplasm of larynx [161] [C32]
25. Malignant neoplasms of trachea, bronchus and lung [162] [C33–C34]
26. Malignant melanoma of skin [172] [C43]
27. Malignant neoplasm of breast [174–175] [C50]
28. Malignant neoplasm of cervix uteri [180] [C53]
29. Malignant neoplasms of corpus uteri and uterus, part unspecified [179, 182] [C54–C55]
30. Malignant neoplasm of ovary [183.0] [C56]
31. Malignant neoplasm of prostate [185] [C61]
32. Malignant neoplasms of kidney and renal pelvis [189.0, 189.1] [C64–C65]
33. Malignant neoplasm of bladder [188] [C67]
34. Malignant neoplasms of meninges, brain and other parts of central nervous system [191–192] [C70–C72]
35. Hodgkin's disease [201] [C81]
36. Non-Hodgkin's lymphoma [200, 202] [C82–C85]
37. Leukemia [204–208] [C91–C95]
38. Multiple myeloma and immunoproliferative neoplasms [203] [C88, C90]
39. Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue [N/A] [C96]
40. All other and unspecified malignant neoplasms [152, 156, 158–160, 163–171, 173, 181, 183.2–184, 186–187, 189.2–190, 193–199] [C17, C23–C24, C26–C31, C37–C41, C44–C49, C51–C52, C57–C60, C62–C63, C66, C68–C69, C73–C80, C97]
41. In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior [210–239] [D00–D48]
42. Anemias [280–285][D50–D64]
43. Diabetes mellitus [250] [E10–E14]
44. Malnutrition [260–263] [E40–E46]
45. Other nutritional deficiencies [264–269] [E50–E64]
46. Meningitis [320–322] [G00, G03]
47. Parkinson's disease [332] [G20–G21]
48. Alzheimer's disease [331.0] [G30]
49. Acute rheumatic fever and chronic rheumatic heart diseases [390–398] [I00–I09]
50. Hypertensive heart disease [402] [I11]
51. Hypertensive heart and renal disease [404][I13]
52. Acute myocardial infarction [410] [I21–I22]
53. Other acute ischemic heart diseases [411] [I24]
54. Atherosclerotic cardiovascular disease, so described [429.2][ I25.0]
55. All other forms of chronic ischemic heart disease [412–414] [I20, I25.1–I25.9]
56. Acute and subacute endocarditis [421][ I33]
57. Diseases of pericardium and acute myocarditis [420, 422–423] [I30–I31, I40]
58. Heart failure [428] [I50]
59. All other forms of heart disease [415–417, 424–427, 429.0–429.1, 429.3–429.9] [I26–I28, I34–I38, I42–I49, I51]
60. Essential (primary) hypertension and hypertensive renal disease [401,403 ] [I10,I12]
61. Cerebrovascular diseases [430–434,436–438] [I60–I69]
62. Atherosclerosis [440] [I70]
63. Aortic aneurysm and dissection [441] [I71]
64. Other diseases of arteries, arterioles and capillaries [442–448] [I72–I78]
65. Other disorders of circulatory system [451–459] [I80–I99]
66. Influenza [487] [J10–J11]
67. Pneumonia [480–486][J12–J18]
68. Acute bronchitis and bronchiolitis [466][J20–J21]
69. Unspecified acute lower respiratory infection [N/A][J22]
70. Bronchitis, chronic and unspecified [490–491][J40–J42]
71. Emphysema [492][J43]
72. Asthma [493][J45–J46]
73. Other chronic lower respiratory diseases [494, 496][J44, J47]
74. Pneumoconioses and chemical effects [500–506][J60–J66, J68]
75. Pneumonitis due to solids and liquids [507][J69]
76. Other diseases of respiratory system [034.0, 460–465, 470–478, 495,5 08–519][J00–J06, J30–J39, J67, J70–J98]
77. Peptic ulcer [531–534][K25–K28]
78. Diseases of appendix [540–543][K35–K38]
79. Hernia [550–553][K40–K46]
80. Alcoholic liver disease [571.0–571.3][K70]
81. Other chronic liver disease and cirrhosis [571.4–571.9][K73–K74]
82. Cholelithiasis and other disorders of gallbladder [574–575][K80–K82]
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 [582–583, 587][ N02–N03, N05–N07, N26]
85. Renal failure [584–586][N17–N19]
86. Other disorders of kidney [588–589][N25,N27]
87. Infections of kidney [590] [N10–N12, N13.6, N15.1]
88. Hyperplasia of prostate [600][N40]
89. Inflammatory diseases of female pelvic organs [614–616][ N70–N76]
90. Pregnancy with abortive outcome [630–639][ O00–O07]
91. Other complications of pregnancy, childbirth and the puerperium [640–676][ O10–O99]
92. Certain conditions originating in the perinatal period [760–771.2, 771.4–779][P00–P96]
93. Congenital malformations, deformations and chromosomal abnormalities [740–759][Q00–Q99]
94. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified [780–799][R00–R99]
95. All other diseases [Residual] [Residual]
96. Motor vehicle crash [810–825] [V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3-V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2]
97. Unintentional injury: Other land transport [800–807, 826–829] [V01, V05–V06, V09.1, V09.3–V09.9, V10–V11, V15–V18, V19.3, V19.8–V19.9, V80.0–V80.2, V80.6–V80.9, V81.2–V81.9, V82.2–V82.9, V87.9, V88.9, V89.1, V89.3, V89.9]
98. Unintentional injury: Water, air and space, and other transport [830–848, 929.0, 929.1] [V90–V99, Y85]
99. Falls [880–888] [W00–W19]
100. Accidental discharge of firearms [922][W32–W34]
101. Accidental drowning and submersion [910][W65–W74]
102. Accidental exposure to smoke, fire and flames[890–899][X00–X09]
103. Accidental poisoning and exposure to noxious substances [850–869, 924.1][X40–X49]
104. Other and unspecified nontransport accidents and their sequelae [900–909, 911–921, 923–924.0, 924.8–928, 929.2–929.9][W20–W31, W35–W64, W75–W99, X10–-X39, X50–X59, Y86]
105. Intentional self-harm (suicide) by discharge of firearms [955.0–955.4][X72–X74]
106. Intentional self-harm (suicide) by other and unspecified means and their sequelae [950–954, 955.5–959][X60–X71, X75–X84, Y87.0]
107. Assault (homicide) by discharge of firearms [965.0–965.4][X93–X95]
108. Assault (homicide) by other and unspecified means and their sequelae [960–964, 965.5–969][X85–X92, X96–Y09, Y87.1]
109. Legal intervention [970–978][Y35, Y89.0]
110. Discharge of firearms, undetermined intent [985.0–985.4][Y22–Y24]
111. Other and unspecified events of undetermined intent and their sequelae [980–984, 985.5–989][Y10–Y21, Y25–Y34, Y87.2, Y89.9]
112. Operations of war and their sequelae [990–999][Y36, Y89.1]
113. Complications of medical and surgical care [870–879, 930–949][Y40–Y84, Y88]

**Appendix B – U.S. Census Bureau Industry Classification** [Return to IND\_2010](#IND_2010)

Description: Job specific 2010 U.S. Census Bureau industry classification. Specific 2010 industry codes are given in Appendix D.

The industry codes for all TLMS cohorts are defined by the Census Bureau’s 2010 definition of industry classification codes. The original industry classification codes for each TLMS cohort were the Decennial Census industry classification codes for the Census that served as the sampling frame for the associated TLMS source CPS Tobacco Supplement survey. The original industry codes for the September 1985 TLMS file were those defined for the 1980 Census. For the TLMS files that are derived during the period 1990 to 2002, the industry code follows the 1990 Census industry code definition. For TLMS files that are derived during the period 2003 to 2010, the industry code follows the 2000 Census industry code definition. For TLMS files that are collected beginning in 2011, the industry codes follow the 2010 Census industry code.

The final industry codes for all TLMS cohorts are the 2010 Census Codes that have been obtained through a harmonization of all cohort industry definitions. To construct a harmonized industry coding that can be applied across all TLMS files, an acceptable procedure was developed that would account for the changing industry definitions that occurred from one Decennial Census to the next. The procedure goes as follows:

1. Convert the 1980 Census industry classification codes on the September 1985 file into 1990 Census industry codes.

The reference used for this conversion was a U.S. Census Bureau document that identified changes between the 1980 industry classification codes and 1990 codes. This document was obtained through a Census website. Click on the URL provided for the pdf reference.

1980 & 1990 Industry Classification Codes:

<https://www2.census.gov/programs-surveys/demo/guidance/industry-occupation/changes-1980-ind-and-occ-classification.pdf>

Changes in industry codes between 1980 and 1990 were identified based on a sample of 132,744 cases from the 1980 census for which the indicated industry identification was separately reclassified into 1990 industry codes.

In the case where a 1980 industry code was split into several 1990 industry codes, the 1990 code assigned to a TLMS record was the 1990 code having the highest percentage of correspondence between the 1980 and the 1990 classification codes over the entire sample. This action necessarily leads to some misclassification of the 1990 industry code. In most cases, the less frequent classification options that were not selected fall into a closely related classification of the code chosen. Since there is no way to know the correct assignment of the industry for the record, this approach is an attempt minimize the occurrence of errors.

1. Convert the 1990 Census industry Codes on the TLMS records for CPS Tobacco Use Supplement cohorts of September 1985, January 1993, May 1993, January 1996, May 1996, September 1998, January 1999, January 2000, May 2000, June 2001, November 2001, and February 2002 into Census 2000 industry codes.

The reference used for this conversion was Technical Paper #65, “The Relationship between the 1990 Census and Census 2000 Industry and Occupation Classification Systems.” Department of Commerce, Economics and Statistics Administration, U.S. Census Bureau. October 2003.

The splitting of 1990 Census industry codes into several 2000 Census industry codes is based on a sample of the 1990 Census. The process is fully described in the reference cited above.

Table 1 of the document, cited in above, was used to assign specific 2000 industry codes from the 1990 codes based on the highest percentage code when the 1990 code was split between several 2000 industry codes in the sample as was described above.

1. Obtain the 2000 Census Industry Codes defined for the TLMS cohorts identified under item 2. and collect the 2000 industry codes from the CPS Tobacco Use Supplement cohorts for February2003, June 2003, November 2003, August 2006, May 2006, January 2007, August 2010, and May 2010 and convert the 2000 industry codes for all of these cohorts into Census 2010 industry codes.

The document used to obtain the conversion of the 2000 industry codes to 2010 codes was obtained through a Census website: GOOGLE ( “changes of Census industry codes from 2007 to 2010”). Click on the URL, “2007-2012-final-census-industry-code-changes.xls”.

1. Collect the 2010 industry codes from the CPS Tobacco Use Supplement cohorts for January 2011, May 2011, July 2014, January 2015, May 2015, and July 2018.

Develop the major industry variables definitions using the 2010 Census Bureau’s industry classification document. GOOGLE (“Census Bureau 2010 industry code.” Select the URL, “Industry and Occupation Code Lists & Crosswalks.” Scroll down and select, “Census 2012 Detailed Industry Code List.”

Major industry definition 1 is derived from the major categories of industry identified in the left most column of the Detailed Industry Code List spreadsheet. There are 10 categories defined

Major industry definition 2 is derived from the major categories of industry combined the sub major categories. There are 20 of these categories.

**Appendix C – U.S. Census Bureau Occupation Classification** [Return to OCC\_2010](#OCC_2010)

Description: Job specific 2010 U.S. Census Bureau occupation classification. Specific 2010 occupation codes are given in Appendix E.

The occupation codes for all TLMS cohorts are defined by the Census Bureau’s 2010 definition of occupation classification codes. The original occupation classification codes for each TLMS cohort were the Decennial Census occupation classification codes for the Census that served as the sampling frame for the associated TLMS source CPS Tobacco Supplement survey. For example, the original occupation codes for the September 1985 TLMS file were those defined for the 1980 Census. For the TLMS files that are derived during the period 1990 to 2002, the occupation code follows the 1990 Census occupation code definition. For TLMS files that are derived during the period 2003 to 2010, the occupation code follows the 2000 Census occupation code definition. For TLMS files that are collected beginning in 2011, the occupation codes follow the 2010 Census occupation code.

The final occupation codes for all TLMS cohorts are the 2010 Census Code that has been obtained through a harmonization of all cohort occupation definitions. To construct a harmonized occupation coding that can be applied across all TLMS files, an acceptable procedure was developed that would account for the changing occupation definitions that occurred from one Decennial Census to the next. The procedure goes as follows:

1. Convert the 1980 Census occupation codes on the September 1985 file into 1990 Census occupation codes.

The reference used for this conversion was a U.S. Census Bureau document that identified changes between the 1980 occupation classification codes and the 1990 codes. This document was obtained through a Census website: GOOGLE (“changes of Census Bureau occupation codes from 1980 to 1990”). Click on the URL for the pdf reference.

Changes in occupation codes between 1980 and 1990 were identified using a sample of 132,744 cases from the 1980 census. For these cases a 1980 Census occupation code was assigned and also, separately, a Census 1990 occupation code was determined.

In cases where a 1980 occupation code was split into several 1990 occupation codes, the 1990 code assigned for TLMS purposes was the 1990 code having the highest percentage of correspondence between the 1980 and the 1990 classification codes over the entire sample. This action necessarily leads to some misclassification of the 1990 occupation code. In most cases, the less frequent classification options that were not selected fall into a closely related classification of the chosen code. Since there is no way to know the correct assignment of the occupation for a given record, this approach is an attempt minimize the occurrence of misclassification.

1. Convert the 1990 Census occupation codes on the TLMS records for the CPS Tobacco Use Supplement cohorts of September 1985, January 1993, May 1993, January 1996, May 1996, September 1998, January 1999, January 2000, May 2000, June 2001, November 2001, and February 2002, into Census 2000 occupation codes.

The reference used for this conversion was, Technical Paper #65, “The Relationship between the 1990 Census and Census 2000 Industry and Occupation Classification Systems.” Department of Commerce, Economics and Statistics Administration, U.S. Census Bureau. October 2003.

The splitting of 1990 Census occupation codes into several 2000 Census occupation codes is based on a sample of the 1990 Census. The process is fully described in the reference cited above.

Table 2 of the document cited above, was used to assign specific 2000 occupation codes from the 1990 codes based on the highest percentage 2000 code occurring when the 1990 code was split between several 2000 occupation codes.

1. Obtain the 2000 Census Occupation Codes defined for the TLMS cohorts identified under item 2. and collect the 2000 occupation codes from the CPS Tobacco Use Supplement cohorts for February2003, June 2003, November 2003, August 2006, May 2006, Jan 2007, August 2010, and May 2010 and convert these 2000 occupation classification codes into Census 2010 codes.

The document used to obtain the conversion of the 2000 occupation codes to 2010 codes was obtained through a Census website: GOOGLE (“changes of Census occupation codes from 2000 to 2010”). Click on the URL, “Industry and occupation code lists & crosswalks”.

1. Collect the 2010 occupation codes from the CPS Tobacco Use Supplement cohorts for January 2011, May 2011, July 2014, January 2015, May 2015, and July 2018.

Develop the major occupation variables definitions using the 2010 Census Bureau’s occupation classification document. GOOGLE (“Census Bureau 2012 occupation code.” Select the URL, “Industry and Occupation Code Lists & Crosswalks.” Scroll down and select, “Census 2010 Occupation Codes with Crosswalks”

Major occupation definition 1 is derived from the major categories of occupation identified starting in the very left most column of the spreadsheet. There are 10 categories defined

Major occupation definition 2 is derived from the major categories of occupation combined the sub major categories. There are 20 of these categories.

**Appendix D – 2010 Census Industry Codes** [Return to IND\_2010](#IND_2010)

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| **2010 CENSUS INDUSTRIAL CLASSIFICATION** | |
| **CENSUS CODE** | **INDUSTRY TITLE** |

**Agriculture, Forestry, Fishing, and Hunting**

0170 .AGR CROP PRODUCTION

0180 .AGR ANIMAL PRODUCTION

0190 .AGR FORESTRY EXCEPT LOGGING

0270 .AGR LOGGING

0280 .AGR FISHING, HUNTING AND TRAPPING

0290 .AGR SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY

**Mining**

0370 .EXT OIL AND GAS EXTRACTION

0380 .EXT COAL MINING

0390 .EXT METAL ORE MINING

0470 .EXT NONMETALLIC MINERAL MINING AND QUARRYING

0480 .EXT NOT SPECIFIED TYPE OF MINING

0490 .EXT SUPPORT ACTIVITIES FOR MINING

**Utilities**

0570 .UTL ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION

0580 .UTL NATURAL GAS DISTRIBUTION

0590 .UTL ELECTRIC AND GAS, AND OTHER COMBINATIONS

0670 .UTL WATER, STEAM, AIR CONDITIONING, AND IRRIGATION SYSTEMS

0680 .UTL SEWAGE TREATMENT FACILITIES

0690 .UTL NOT SPECIFIED UTILITIES

**Construction**

0770 .CON CONSTRUCTION, INCL CLEANING DURING AND IMM AFTER

**Manufacturing and Nondurable Goods Manufacturing**

1070 .MFG ANIMAL FOOD, GRAIN AND OILSEED MILLING

1080 .MFG SUGAR AND CONFECTIONERY PRODUCTS

1090 .MFG FRUIT AND VEGETABLE PRESERVING AND SPECIALTY FOODS

1170 .MFG DAIRY PRODUCTS

1180 .MFG ANIMAL SLAUGHTERING AND PROCESSING

1190 .MFG RETAIL BAKERIES

1270 .MFG BAKERIES, EXCEPT RETAIL

1280 .MFG SEAFOOD AND OTHER MISCELLANEOUS FOODS, N.E.C.

1290 .MFG NOT SPECIFIED FOOD INDUSTRIES

1370 .MFG BEVERAGE

1390 .MFG TOBACCO

1470 .MFG FIBER, YARN, AND THREAD MILLS

1480 .MFG FABRIC MILLS, EXCEPT KNITTING MILLS

1490 .MFG TEXTILE AND FABRIC FINISHING AND FABRIC COATING MILLS

1570 .MFG CARPET AND RUG MILLS

1590 .MFG TEXTILE PRODUCT MILLS, EXCEPT CARPET AND RUG

1670 .MFG KNITTING FABRIC MILLS, AND APPAREL KNITTING MILLS

1680 .MFG CUT AND SEW APPAREL

1690 .MFG APPAREL ACCESSORIES AND OTHER APPAREL

1770 .MFG FOOTWEAR

1790 .MFG LEATHER TANNING AND FINISHING AND OTHER ALLIED PRODUCTS MANUFACTURING

1870 .MFG PULP, PAPER, AND PAPERBOARD MILLS

1880 .MFG PAPERBOARD CONTAINERS AND BOXES

1890 .MFG MISCELLANEOUS PAPER AND PULP PRODUCTS

1990 .MFG PRINTING AND RELATED SUPPORT ACTIVITIES

2070 .MFG PETROLEUM REFINING

2090 .MFG MISCELLANEOUS PETROLEUM AND COAL PRODUCTS

2170 .MFG RESIN, SYNTHETIC RUBBER, AND FIBERS AND FILAMENTS

2180 .MFG AGRICULTURAL CHEMICALS

2190 .MFG PHARMACEUTICALS AND MEDICINES

2270 .MFG PAINT, COATING, AND ADHESIVES

2280 .MFG SOAP, CLEANING COMPOUND, AND COSMETICS

2290 .MFG INDUSTRIAL AND MISCELLANEOUS CHEMICALS

2370 .MFG PLASTICS PRODUCTS

2380 .MFG TIRES

2390 .MFG RUBBER PRODUCTS, EXCEPT TIRES

**Durable Goods Manufacturing**

2470 .MFG POTTERY, CERAMICS, AND PLUMBING FIXTURE MANUFACTURING

2480 .MFG STRUCTURAL CLAY PRODUCTS

2490 .MFG GLASS AND GLASS PRODUCTS

2570 .MFG CEMENT, CONCRETE, LIME, AND GYPSUM PRODUCTS

2590 .MFG MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

2670 .MFG IRON AND STEEL MILLS AND STEEL PRODUCTS

2680 .MFG ALUMINUM PRODUCTION AND PROCESSING

2690 .MFG NONFERROUS METAL, EXCEPT ALUMINUM, PRODUCTION AND PROCESSING

2770 .MFG FOUNDRIES

2780 .MFG METAL FORGINGS AND STAMPINGS

2790 .MFG CUTLERY AND HAND TOOLS

2870 .MFG STRUCTURAL METALS, AND BOILER, TANK, AND SHIPPING CONTAINERS

2880 .MFG MACHINE SHOPS; TURNED PRODUCTS; SCREWS, NUTS AND BOLTS

2890 .MFG COATING, ENGRAVING, HEAT TREATING AND ALLIED ACTIVITIES

2970 .MFG ORDNANCE

2980 .MFG MISCELLANEOUS FABRICATED METAL PRODUCTS

2990 .MFG NOT SPECIFIED METAL INDUSTRIES

3070 .MFG AGRICULTURAL IMPLEMENTS

3080 .MFG CONSTRUCTION, AND MINING AND OIL AND GAS FIELD MACHINERY

3090 .MFG COMMERCIAL AND SERVICE INDUSTRY MACHINERY

3170 .MFG METALWORKING MACHINERY

3180 .MFG ENGINES, TURBINES, AND POWER TRANSMISSION EQUIPMENT

3190 .MFG MACHINERY, N.E.C.

3290 .MFG NOT SPECIFIED MACHINERY

3360 .MFG COMPUTER AND PERIPHERAL EQUIPMENT

3370 .MFG COMMUNICATIONS, AND AUDIO AND VIDEO EQUIPMENT

3380 .MFG NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS

3390 .MFG ELECTRONIC COMPONENTS AND PRODUCTS, N.E.C.

3470 .MFG HOUSEHOLD APPLIANCES

3490 .MFG ELECTRIC LIGHTING AND ELECTRICAL EQUIPMENT MANUFACTURING, AND OTHER ELECTRICAL COMPONENT MANUFACTURING, N.E.C.

3570 .MFG MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

3580 .MFG AIRCRAFT AND PARTS

3590 .MFG AEROSPACE PRODUCTS AND PARTS

3670 .MFG RAILROAD ROLLING STOCK

3680 .MFG SHIP AND BOAT BUILDING

3690 .MFG OTHER TRANSPORTATION EQUIPMENT

3770 .MFG SAWMILLS AND WOOD PRESERVATION

3780 .MFG VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCTS

3790 .MFG PREFABRICATED WOOD BUILDINGS AND MOBILE HOMES

3870 .MFG MISCELLANEOUS WOOD PRODUCTS

3890 .MFG FURNITURE AND RELATED PRODUCTS

3960 .MFG MEDICAL EQUIPMENT AND SUPPLIES

3970 .MFG SPORTING AND ATHLETIC GOODS, AND DOLL, TOY, AND GAME MANUFACTURING

3980 .MFG MISCELLANEOUS MANUFACTURING, N.E.C.

3990 .MFG NOT SPECIFIED MANUFACTURING INDUSTRIES

**Wholesale Trade Durable Goods Wholesale**

4070 .WHL MOTOR VEHICLES, PARTS, AND SUPPLIES MERCHANT WHOLESALERS

4080 .WHL FURNITURE AND HOME FURNISHING MERCHANT WHOLESALERS

4090 .WHL LUMBER AND OTHER CONSTRUCTION MATERIALS MERCHANT WHOLESALERS

4170 .WHL PROFESSIONAL AND COMMERCIAL EQUIPMENT AND SUPPLIES MERCHANT WHOLESALERS

4180 .WHL METALS AND MINERALS, EXCEPT PETROLEUM, MERCHANT WHOLESALERS

4190 .WHL ELECTRICAL AND ELECTRONIC GOODS MERCHANT WHOLESALERS

4260 .WHL HARDWARE, PLUMBING AND HEATING EQUIPMENT, AND SUPPLIE MERCHANT WHOLESALERS

4270 .WHL MACHINERY, EQUIPMENT, AND SUPPLIES MERCHANT WHOLESALERS

4280 .WHL RECYCLABLE MATERIAL MERCHANT WHOLESALERS

4290 .WHL MISCELLANEOUS DURABLE GOODS MERCHANT WHOLESALERS

**Nondurable Goods Wholesale**

4370 .WHL PAPER AND PAPER PRODUCTS MERCHANT WHOLESALERS

4380 .WHL DRUGS, SUNDRIES, AND CHEMICAL AND ALLIED PRODUCTS MERCHANT WHOLESALERS

4390 .WHL APPAREL, FABRICS, AND NOTIONS MERCHANT WHOLESALERS

4470 .WHL GROCERIES AND RELATED PRODUCTS MERCHANT WHOLESALERS

4480 .WHL FARM PRODUCT RAW MATERIALS MERCHANT WHOLESALERS

4490 .WHL PETROLEUM AND PETROLEUM PRODUCTS MERCHANT WHOLESALERS

4560 .WHL ALCOHOLIC BEVERAGES MERCHANT WHOLESALERS

4570 .WHL FARM SUPPLIES MERCHANT WHOLESALERS

4580 .WHL MISCELLANEOUS NONDURABLE GOODS MERCHANT WHOLESALERS

4585 .WHL WHOLESALE ELECTRONIC MARKETS AND AGENTS AND BROKERS

4590 .WHL NOT SPECIFIED WHOLESALE TRADE

**Retail Trade**

4670 .RET AUTOMOBILE DEALERS

4680 .RET OTHER MOTOR VEHICLE DEALERS

4690 .RET AUTO PARTS, ACCESSORIES, AND TIRE STORES

4770 .RET FURNITURE AND HOME FURNISHINGS STORES

4780 .RET HOUSEHOLD APPLIANCE STORES

4790 .RET RADIO, TV, AND COMPUTER STORES

4870 .RET BUILDING MATERIAL AND SUPPLIES DEALERS

4880 .RET HARDWARE STORES

4890 .RET LAWN AND GARDEN EQUIPMENT AND SUPPLIES STORES

4970 .RET GROCERY STORES

4980 .RET SPECIALTY FOOD STORES

4990 .RET BEER, WINE, AND LIQUOR STORES

5070 .RET PHARMACIES AND DRUG STORES

5080 .RET HEALTH AND PERSONAL CARE, EXCEPT DRUG, STORES

5090 .RET GASOLINE STATIONS

5170 .RET CLOTHING STORES

5180 .RET SHOE STORES

5190 .RET JEWELRY, LUGGAGE, AND LEATHER GOODS STORES

5270 .RET SPORTING GOODS, CAMERA, AND HOBBY AND TOY STORES

5280 .RET SEWING, NEEDLEWORK, AND PIECE GOODS STORES

5290 .RET MUSIC STORES

5370 .RET BOOK STORES AND NEWS DEALERS

5380 .RET DEPARTMENT AND DISCOUNT STORES

5390 .RET MISCELLANEOUS GENERAL MERCHANDISE STORES

5470 .RET FLORISTS

5480 .RET OFFICE SUPPLIES AND STATIONARY STORES

5490 .RET USED MERCHANDISE STORES

5570 .RET GIFT, NOVELTY, AND SOUVENIR SHOPS

5580 .RET MISCELLANEOUS RETAIL STORES

5590 .RET ELECTRONIC SHOPPING

5591 .RET ELECTRONIC AUCTIONS

5592 .RET MAIL ORDER HOUSES

5670 .RET VENDING MACHINE OPERATORS

5680 .RET FUEL DEALERS

5690 .RET OTHER DIRECT SELLING ESTABLISHMENTS

5790 .RET NOT SPECIFIED RETAIL TRADE

**Transportation and Warehousing**

6070 .TRN AIR TRANSPORTATION

6080 .TRN RAIL TRANSPORTATION

6090 .TRN WATER TRANSPORTATION

6170 .TRN TRUCK TRANSPORTATION

6180 .TRN BUS SERVICE AND URBAN TRANSIT

6190 .TRN TAXI AND LIMOUSINE SERVICE

6270 .TRN PIPELINE TRANSPORTATION

6280 .TRN SCENIC AND SIGHTSEEING TRANSPORTATION

6290 .TRN SERVICES INCIDENTAL TO TRANSPORTATION

6370 .TRN POSTAL SERVICE

6380 .TRN COURIERS AND MESSENGERS

6390 .TRN WAREHOUSING AND STORAGE

**Information**

6470 .INF NEWSPAPER PUBLISHERS

6480 .INF PERIODICAL, BOOK, AND DIRECTORY PUBLISHERS

6490 .INF SOFTWARE PUBLISHERS

6570 .INF MOTION PICTURE AND VIDEO INDUSTRIES

6590 .INF SOUND RECORDING INDUSTRIES

6670 .INF BROADCASTING, EXCEPT INTERNET

6672 .INF INTERNET PUBLISHING AND BROADCASTING AND WEB SEARCH PORTALS

6680 .INF WIRED TELECOMMUNICATIONS CARRIERS

6690 .INF TELECOMMUNICATIONS, EXCEPT WIRED TELECOMMUNICATIONS CARRIERS

6695 .INF DATA PROCESSING, HOSTING, AND RELATED SERVICES

6770 .INF LIBRARIES AND ARCHIVES

6780 .INF OTHER INFORMATION SERVICES, EXCEPT LIBRARIES AND ARCHIVES, AND INTERNET PUBLISHING AND BROADCASTING AND WEB SEARCH PORTALS

***Finance, Insurance, Real Estate, and Rental and Leasing***

**Finance and Insurance**

6870 .FIN BANKING AND RELATED ACTIVITIES

6880 .FIN SAVINGS INSTITUTIONS, INCLUDING CREDIT UNIONS

6890 .FIN NON DEPOSITORY CREDIT AND RELATED ACTIVITIES

6970 .FIN SECURITIES, COMMODITIES, FUNDS, TRUSTS, AND OTHER FINANCIAL INVESTMENTS

6990 .FIN INSURANCE CARRIERS AND RELATED ACTIVITIES

**Real Estate and Rental and Leasing**

7070 .FIN REAL ESTATE

7080 .FIN AUTOMOTIVE EQUIPMENT RENTAL AND LEASING

7170 .FIN VIDEO TAPE AND DISK RENTAL

7180 .FIN OTHER CONSUMER GOODS RENTAL

7190 .FIN COMMERCIAL, INDUSTRIAL, AND OTHER INTANGIBLE ASSETS RENTAL AND LEASING

***Professional, Scientific, Management, Administrative, and Waste Management Services***

**Professional, Scientific, and Technical Services**

7270 .PRF LEGAL SERVICES

7280 .PRF ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES

7290 .PRF ARCHITECTURAL, ENGINEERING, AND RELATED SERVICES

7370 .PRF SPECIALIZED DESIGN SERVICES

7380 .PRF COMPUTER SYSTEMS DESIGN AND RELATED SERVICES

7390 .PRF MANAGEMENT, SCIENTIFIC, AND TECHNICAL CONSULTING SERVICES

7460 .PRF SCIENTIFIC RESEARCH AND DEVELOPMENT SERVICES

7470 .PRF ADVERTISING AND RELATED SERVICES

7480 .PRF VETERINARY SERVICES

7490 .PRF OTHER PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES

**Management, Administrative, and Waste Management Services**

***Management of companies and enterprises***

7570 .PRF MANAGEMENT OF COMPANIES AND ENTERPRISES

***Administrative and support and waste management services***

7580 .PRF EMPLOYMENT SERVICES

7590 .PRF BUSINESS SUPPORT SERVICES

7670 .PRF TRAVEL ARRANGEMENTS AND RESERVATION SERVICES

7680 .PRF INVESTIGATION AND SECURITY SERVICES

7690 .PRF SERVICES TO BUILDINGS AND DWELLINGS, EX CONSTR CLN

7770 .PRF LANDSCAPING SERVICES

7780 .PRF OTHER ADMINISTRATIVE AND OTHER SUPPORT SERVICES

7790 .PRF WASTE MANAGEMENT AND REMEDIATION SERVICES

***Educational, Health, and Social Services***

**Educational Services**

7860 .EDU ELEMENTARY AND SECONDARY SCHOOLS

7870 .EDU COLLEGES AND UNIVERSITIES, INCLUDING JUNIOR COLLEGES

7880 .EDU BUSINESS, TECHNICAL, AND TRADE SCHOOLS AND TRAINING

7890 .EDU OTHER SCHOOLS AND INSTRUCTION, AND EDUCATIONAL SUPPORT SERVICES

**Health Care and Social Assistance**

7970 .MED OFFICES OF PHYSICIANS

7980 .MED OFFICES OF DENTISTS

7990 .MED OFFICE OF CHIROPRACTORS

8070 .MED OFFICES OF OPTOMETRISTS

8080 .MED OFFICES OF OTHER HEALTH PRACTITIONERS

8090 .MED OUTPATIENT CARE CENTERS

8170 .MED HOME HEALTH CARE SERVICES

8180 .MED OTHER HEALTH CARE SERVICES

8190 .MED HOSPITALS

8270 .MED NURSING CARE FACILITIES

8290 .MED RESIDENTIAL CARE FACILITIES, WITHOUT NURSING

8370 .SCA INDIVIDUAL AND FAMILY SERVICES

8380 .SCA COMMUNITY FOOD AND HOUSING, AND EMERGENCY SERVICES

8390 .SCA VOCATIONAL REHABILITATION SERVICES

8470 .SCA CHILD DAY CARE SERVICES

***Arts, Entertainment, Recreation, Accommodation, and Food Services***

**Arts, Entertainment, and Recreation**

8560 .ENT INDEPENDENT ARTISTS, PERFORMING ARTS, SPECTATOR SPORTS AND RELATED INDUSTRIES

8570 .ENT MUSEUMS, ART GALLERIES, HISTORICAL SITES, AND SIMILAR INSTITUTIONS

8580 .ENT BOWLING CENTERS

8590 .ENT OTHER AMUSEMENT, GAMBLING, AND RECREATION INDUSTRIES

**Accommodation and Food Service**

8660 .ENT TRAVELER ACCOMMODATION

8670 .ENT RECREATIONAL VEHICLE PARKS AND CAMPS, AND ROOMING AND BOARDING HOUSES

8680 .ENT RESTAURANTS AND OTHER FOOD SERVICES

8690 .ENT DRINKING PLACES, ALCOHOLIC BEVERAGES

**Other Services (except Public Administration)**

8770 .SRV AUTOMOTIVE REPAIR AND MAINTENANCE

8780 .SRV CAR WASHES

8790 .SRV ELECTRONIC AND PRECISION EQUIPMENT REPAIR AND MAINTENANCE

8870 .SRV COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT REPAIR AND MAINTENANCE

8880 .SRV PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

8970 .SRV BARBER SHOPS

8980 .SRV BEAUTY SALONS

8990 .SRV NAIL SALONS AND OTHER PERSONAL CARE SERVICES

9070 .SRV DRYCLEANING AND LAUNDRY SERVICES

9080 .SRV FUNERAL HOMES, CEMETERIES AND CREMATORIES

9090 .SRV OTHER PERSONAL SERVICES

9160 .SRV RELIGIOUS ORGANIZATIONS

9170 .SRV CIVIC, SOCIAL, ADVOCACY ORGANIZATIONS, AND GRANTMAKING AND GIVING SERVICES

9180 .SRV LABOR UNIONS

9190 .SRV BUSINESS, PROFESSIONAL, POLITICAL, AND SIMILAR ORGANIZATIONS

9290 .SRV PRIVATE HOUSEHOLDS

**Public Administration**

9370 .ADM EXECUTIVE OFFICES AND LEGISLATIVE BODIES

9380 .ADM PUBLIC FINANCE ACTIVITIES

9390 .ADM OTHER GENERAL GOVERNMENT AND SUPPORT

9470 .ADM JUSTICE, PUBLIC ORDER, AND SAFETY ACTIVITIES

9480 .ADM ADMINISTRATION OF HUMAN RESOURCE PROGRAMS

9490 .ADM ADMINISTRATION OF ENVIRONMENTAL QUALITY AND HOUSING PROGRAMS

9570 .ADM ADMINISTRATION OF ECONOMIC PROGRAMS AND SPACE RESEARCH

9590 .ADM NATIONAL SECURITY AND INTERNATIONAL AFFAIRS

**Armed Forces**

9670 .MIL U.S. ARMY

9680 .MIL U.S. AIR FORCE

9690 .MIL U.S. NAVY

9770 .MIL U.S. MARINES

9780 .MIL U.S. COAST GUARD

9790 .MIL U.S. ARMED FORCES, BRANCH NOT SPECIFIED

9870 .MIL MILITARY RESERVES OR NATIONAL GUARD

9920 UNEMPLOYED AND LAST WORKED 5 YEARS AGO OR EARLIER OR NEVER WORKED

**Appendix E – 2010 Census Occupation Codes** [Return to OCC\_2010](#OCC_2010)

Source: U.S. Bureau of Labor Statistics, link [here](https://www.bls.gov/cps/cenocc2010.htm#:~:text=2010%20Census%20Occupational%20Classification%20%20%20%20Occupation,%20%2011-1011%20%2037%20more%20rows%20).

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| **2010 CENSUS OCCUPATIONAL CLASSIFICATION** | |
| **OCCUPATION TITLE** | **2010 CENSUS CODE(S)** |
|  |  |
| **Management, professional, and related occupations** | **0010–3540** |
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| **Management, business, and financial operations occupations** | 0010–0950 |
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| Management occupations | 0010–0430 |
| Chief executives | 0010 |
| General and operations managers | 0020 |
| Legislators | 0030 |
| Advertising and promotions managers | 0040 |
| Marketing and sales managers | 0050 |
| Public relations and fundraising managers | 0060 |
| Administrative services managers | 0100 |
| Computer and information systems managers | 0110 |
| Financial managers | 0120 |
| Compensation and benefits managers | 0135 |
| Human resources managers | 0136 |
| Training and development managers | 0137 |
| Industrial production managers | 0140 |
| Purchasing managers | 0150 |
| Transportation, storage, and distribution managers | 0160 |
| Farmers, ranchers, and other agricultural managers | 0205 |
| Construction managers | 0220 |
| Education administrators | 0230 |
| Architectural and engineering managers | 0300 |
| Food service managers | 0310 |
| Funeral service managers | 0325 |
| Gaming managers | 0330 |
| Lodging managers | 0340 |
| Medical and health services managers | 0350 |
| Natural sciences managers | 0360 |
| Postmasters and mail superintendents | 0400 |
| Property, real estate, and community association managers | 0410 |
| Social and community service managers | 0420 |
| Emergency management directors | 0425 |
| Managers, all other | 0430 |
|  |  |
| Business and financial operations occupations | 0500–0950 |
| Agents and business managers of artists, performers, and athletes | 0500 |
| Buyers and purchasing agents, farm products | 0510 |
| Wholesale and retail buyers, except farm products | 0520 |
| Purchasing agents, except wholesale, retail, and farm products | 0530 |
| Claims adjusters, appraisers, examiners, and investigators | 0540 |
| Compliance officers | 0565 |
| Cost estimators | 0600 |
| Human resources workers | 0630 |
| Compensation, benefits, and job analysis specialists | 0640 |
| Training and development specialists | 0650 |
| Logisticians | 0700 |
| Management analysts | 0710 |
| Meeting, convention, and event planners | 0725 |
| Fundraisers | 0726 |
| Market research analysts and marketing specialists | 0735 |
| Business operations specialists, all other | 0740 |
| Accountants and auditors | 0800 |
| Appraisers and assessors of real estate | 0810 |
| Budget analysts | 0820 |
| Credit analysts | 0830 |
| Financial analysts | 0840 |
| Personal financial advisors | 0850 |
| Insurance underwriters | 0860 |
| Financial examiners | 0900 |
| Credit counselors and loan officers | 0910 |
| Tax examiners and collectors, and revenue agents | 0930 |
| Tax preparers | 0940 |
| Financial specialists, all other | 0950 |
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| **Professional and related occupations** | 1000–3540 |
|  |  |
| Computer and mathematical occupations | 1000–1240 |
| Computer and information research scientists | 1005 |
| Computer systems analysts | 1006 |
| Information security analysts | 1007 |
| Computer programmers | 1010 |
| Software developers, applications and systems software | 1020 |
| Web developers | 1030 |
| Computer support specialists | 1050 |
| Database administrators | 1060 |
| Network and computer systems administrators | 1105 |
| Computer network architects | 1106 |
| Computer occupations, all other | 1107 |
| Actuaries | 1200 |
| Mathematicians | 1210 |
| Operations research analysts | 1220 |
| Statisticians | 1230 |
| Miscellaneous mathematical science occupations | 1240 |
|  |  |
| Architecture and engineering occupations | 1300–1560 |
| Architects, except naval | 1300 |
| Surveyors, cartographers, and photogrammetrists | 1310 |
| Aerospace engineers | 1320 |
| Agricultural engineers | 1330 |
| Biomedical engineers | 1340 |
| Chemical engineers | 1350 |
| Civil engineers | 1360 |
| Computer hardware engineers | 1400 |
| Electrical and electronics engineers | 1410 |
| Environmental engineers | 1420 |
| Industrial engineers, including health and safety | 1430 |
| Marine engineers and naval architects | 1440 |
| Materials engineers | 1450 |
| Mechanical engineers | 1460 |
| Mining and geological engineers, including mining safety engineers | 1500 |
| Nuclear engineers | 1510 |
| Petroleum engineers | 1520 |
| Engineers, all other | 1530 |
| Drafters | 1540 |
| Engineering technicians, except drafters | 1550 |
| Surveying and mapping technicians | 1560 |
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| Life, physical, and social science occupations | 1600–1965 |
| Agricultural and food scientists | 1600 |
| Biological scientists | 1610 |
| Conservation scientists and foresters | 1640 |
| Medical scientists | 1650 |
| Life scientists, all other | 1660 |
| Astronomers and physicists | 1700 |
| Atmospheric and space scientists | 1710 |
| Chemists and materials scientists | 1720 |
| Environmental scientists and geoscientists | 1740 |
| Physical scientists, all other | 1760 |
| Economists | 1800 |
| Survey researchers | 1815 |
| Psychologists | 1820 |
| Sociologists | 1830 |
| Urban and regional planners | 1840 |
| Miscellaneous social scientists and related workers | 1860 |
| Agricultural and food science technicians | 1900 |
| Biological technicians | 1910 |
| Chemical technicians | 1920 |
| Geological and petroleum technicians | 1930 |
| Nuclear technicians | 1940 |
| Social science research assistants | 1950 |
| Miscellaneous life, physical, and social science technicians | 1965 |
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| Community and social service occupations | 2000–2060 |
| Counselors | 2000 |
| Social workers | 2010 |
| Probation officers and correctional treatment specialists | 2015 |
| Social and human service assistants | 2016 |
| Miscellaneous community and social service specialists, including health educators and community health workers | 2025 |
| Clergy | 2040 |
| Directors, religious activities and education | 2050 |
| Religious workers, all other | 2060 |
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| Legal occupations | 2100–2160 |
| Lawyers | 2100 |
| Judicial law clerks | 2105 |
| Judges, magistrates, and other judicial workers | 2110 |
| Paralegals and legal assistants | 2145 |
| Miscellaneous legal support workers | 2160 |
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| Education, training, and library occupations | 2200–2550 |
| Postsecondary teachers | 2200 |
| Preschool and kindergarten teachers | 2300 |
| Elementary and middle school teachers | 2310 |
| Secondary school teachers | 2320 |
| Special education teachers | 2330 |
| Other teachers and instructors | 2340 |
| Archivists, curators, and museum technicians | 2400 |
| Librarians | 2430 |
| Library technicians | 2440 |
| Teacher assistants | 2540 |
| Other education, training, and library workers | 2550 |
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| Arts, design, entertainment, sports, and media occupations | 2600–2960 |
| Artists and related workers | 2600 |
| Designers | 2630 |
| Actors | 2700 |
| Producers and directors | 2710 |
| Athletes, coaches, umpires, and related workers | 2720 |
| Dancers and choreographers | 2740 |
| Musicians, singers, and related workers | 2750 |
| Entertainers and performers, sports and related workers, all other | 2760 |
| Announcers | 2800 |
| News analysts, reporters and correspondents | 2810 |
| Public relations specialists | 2825 |
| Editors | 2830 |
| Technical writers | 2840 |
| Writers and authors | 2850 |
| Miscellaneous media and communication workers | 2860 |
| Broadcast and sound engineering technicians and radio operators | 2900 |
| Photographers | 2910 |
| Television, video, and motion picture camera operators and editors | 2920 |
| Media and communication equipment workers, all other | 2960 |
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| Healthcare practitioners and technical occupations | 3000–3540 |
| Chiropractors | 3000 |
| Dentists | 3010 |
| Dietitians and nutritionists | 3030 |
| Optometrists | 3040 |
| Pharmacists | 3050 |
| Physicians and surgeons | 3060 |
| Physician assistants | 3110 |
| Podiatrists | 3120 |
| Audiologists | 3140 |
| Occupational therapists | 3150 |
| Physical therapists | 3160 |
| Radiation therapists | 3200 |
| Recreational therapists | 3210 |
| Respiratory therapists | 3220 |
| Speech-language pathologists | 3230 |
| Exercise physiologists | 3235 |
| Therapists, all other | 3245 |
| Veterinarians | 3250 |
| Registered nurses | 3255 |
| Nurse anesthetists | 3256 |
| Nurse midwives | 3257 |
| Nurse practitioners | 3258 |
| Health diagnosing and treating practitioners, all other | 3260 |
| Clinical laboratory technologists and technicians | 3300 |
| Dental hygienists | 3310 |
| Diagnostic related technologists and technicians | 3320 |
| Emergency medical technicians and paramedics | 3400 |
| Health practitioner support technologists and technicians | 3420 |
| Licensed practical and licensed vocational nurses | 3500 |
| Medical records and health information technicians | 3510 |
| Opticians, dispensing | 3520 |
| Miscellaneous health technologists and technicians | 3535 |
| Other healthcare practitioners and technical occupations | 3540 |
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| **Service occupations** | **3600–4650** |
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| Healthcare support occupations | 3600–3655 |
| Nursing, psychiatric, and home health aides | 3600 |
| Occupational therapy assistants and aides | 3610 |
| Physical therapist assistants and aides | 3620 |
| Massage therapists | 3630 |
| Dental assistants | 3640 |
| Medical assistants | 3645 |
| Medical transcriptionists | 3646 |
| Pharmacy aides | 3647 |
| Veterinary assistants and laboratory animal caretakers | 3648 |
| Phlebotomists | 3649 |
| Miscellaneous healthcare support occupations, including medical equipment preparers | 3655 |
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| Protective service occupations | 3700–3955 |
| First-line supervisors of correctional officers | 3700 |
| First-line supervisors of police and detectives | 3710 |
| First-line supervisors of fire fighting and prevention workers | 3720 |
| First-line supervisors of protective service workers, all other | 3730 |
| Firefighters | 3740 |
| Fire inspectors | 3750 |
| Bailiffs, correctional officers, and jailers | 3800 |
| Detectives and criminal investigators | 3820 |
| Fish and game wardens | 3830 |
| Parking enforcement workers | 3840 |
| Police and sheriff's patrol officers | 3850 |
| Transit and railroad police | 3860 |
| Animal control workers | 3900 |
| Private detectives and investigators | 3910 |
| Security guards and gaming surveillance officers | 3930 |
| Crossing guards | 3940 |
| Transportation security screeners | 3945 |
| Lifeguards and other recreational, and all other protective service workers | 3955 |
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| Food preparation and serving related occupations | 4000–4160 |
| Chefs and head cooks | 4000 |
| First-line supervisors of food preparation and serving workers | 4010 |
| Cooks | 4020 |
| Food preparation workers | 4030 |
| Bartenders | 4040 |
| Combined food preparation and serving workers, including fast food | 4050 |
| Counter attendants, cafeteria, food concession, and coffee shop | 4060 |
| Waiters and waitresses | 4110 |
| Food servers, nonrestaurant | 4120 |
| Dining room and cafeteria attendants and bartender helpers | 4130 |
| Dishwashers | 4140 |
| Hosts and hostesses, restaurant, lounge, and coffee shop | 4150 |
| Food preparation and serving related workers, all other | 4160 |
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| Building and grounds cleaning and maintenance occupations | 4200–4250 |
| First-line supervisors of housekeeping and janitorial workers | 4200 |
| First-line supervisors of landscaping, lawn service, and groundskeeping workers | 4210 |
| Janitors and building cleaners | 4220 |
| Maids and housekeeping cleaners | 4230 |
| Pest control workers | 4240 |
| Grounds maintenance workers | 4250 |
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| Personal care and service occupations | 4300–4650 |
| First-line supervisors of gaming workers | 4300 |
| First-line supervisors of personal service workers | 4320 |
| Animal trainers | 4340 |
| Nonfarm animal caretakers | 4350 |
| Gaming services workers | 4400 |
| Motion picture projectionists | 4410 |
| Ushers, lobby attendants, and ticket takers | 4420 |
| Miscellaneous entertainment attendants and related workers | 4430 |
| Embalmers and funeral attendants | 4460 |
| Morticians, undertakers, and funeral directors | 4465 |
| Barbers | 4500 |
| Hairdressers, hairstylists, and cosmetologists | 4510 |
| Miscellaneous personal appearance workers | 4520 |
| Baggage porters, bellhops, and concierges | 4530 |
| Tour and travel guides | 4540 |
| Childcare workers | 4600 |
| Personal care aides | 4610 |
| Recreation and fitness workers | 4620 |
| Residential advisors | 4640 |
| Personal care and service workers, all other | 4650 |
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| **Sales and office occupations** | **4700–5940** |
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| **Sales and related occupations** | 4700–4965 |
| First-line supervisors of retail sales workers | 4700 |
| First-line supervisors of non-retail sales workers | 4710 |
| Cashiers | 4720 |
| Counter and rental clerks | 4740 |
| Parts salespersons | 4750 |
| Retail salespersons | 4760 |
| Advertising sales agents | 4800 |
| Insurance sales agents | 4810 |
| Securities, commodities, and financial services sales agents | 4820 |
| Travel agents | 4830 |
| Sales representatives, services, all other | 4840 |
| Sales representatives, wholesale and manufacturing | 4850 |
| Models, demonstrators, and product promoters | 4900 |
| Real estate brokers and sales agents | 4920 |
| Sales engineers | 4930 |
| Telemarketers | 4940 |
| Door-to-door sales workers, news and street vendors, and related workers | 4950 |
| Sales and related workers, all other | 4965 |
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| **Office and administrative support occupations** | 5000–5940 |
| First-line supervisors of office and administrative support workers | 5000 |
| Switchboard operators, including answering service | 5010 |
| Telephone operators | 5020 |
| Communications equipment operators, all other | 5030 |
| Bill and account collectors | 5100 |
| Billing and posting clerks | 5110 |
| Bookkeeping, accounting, and auditing clerks | 5120 |
| Gaming cage workers | 5130 |
| Payroll and timekeeping clerks | 5140 |
| Procurement clerks | 5150 |
| Tellers | 5160 |
| Financial clerks, all other | 5165 |
| Brokerage clerks | 5200 |
| Correspondence clerks | 5210 |
| Court, municipal, and license clerks | 5220 |
| Credit authorizers, checkers, and clerks | 5230 |
| Customer service representatives | 5240 |
| Eligibility interviewers, government programs | 5250 |
| File clerks | 5260 |
| Hotel, motel, and resort desk clerks | 5300 |
| Interviewers, except eligibility and loan | 5310 |
| Library assistants, clerical | 5320 |
| Loan interviewers and clerks | 5330 |
| New accounts clerks | 5340 |
| Order clerks | 5350 |
| Human resources assistants, except payroll and timekeeping | 5360 |
| Receptionists and information clerks | 5400 |
| Reservation and transportation ticket agents and travel clerks | 5410 |
| Information and record clerks, all other | 5420 |
| Cargo and freight agents | 5500 |
| Couriers and messengers | 5510 |
| Dispatchers | 5520 |
| Meter readers, utilities | 5530 |
| Postal service clerks | 5540 |
| Postal service mail carriers | 5550 |
| Postal service mail sorters, processors, and processing machine operators | 5560 |
| Production, planning, and expediting clerks | 5600 |
| Shipping, receiving, and traffic clerks | 5610 |
| Stock clerks and order fillers | 5620 |
| Weighers, measurers, checkers, and samplers, recordkeeping | 5630 |
| Secretaries and administrative assistants | 5700 |
| Computer operators | 5800 |
| Data entry keyers | 5810 |
| Word processors and typists | 5820 |
| Desktop publishers | 5830 |
| Insurance claims and policy processing clerks | 5840 |
| Mail clerks and mail machine operators, except postal service | 5850 |
| Office clerks, general | 5860 |
| Office machine operators, except computer | 5900 |
| Proofreaders and copy markers | 5910 |
| Statistical assistants | 5920 |
| Office and administrative support workers, all other | 5940 |
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| **Natural resources, construction, and maintenance occupations** | **6000–7630** |
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| **Farming, fishing, and forestry occupations** | 6000–6130 |
| First-line supervisors of farming, fishing, and forestry workers | 6005 |
| Agricultural inspectors | 6010 |
| Animal breeders | 6020 |
| Graders and sorters, agricultural products | 6040 |
| Miscellaneous agricultural workers | 6050 |
| Fishers and related fishing workers | 6100 |
| Hunters and trappers | 6110 |
| Forest and conservation workers | 6120 |
| Logging workers | 6130 |
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| **Construction and extraction occupations** | 6200–6940 |
| First-line supervisors of construction trades and extraction workers | 6200 |
| Boilermakers | 6210 |
| Brickmasons, blockmasons, and stonemasons | 6220 |
| Carpenters | 6230 |
| Carpet, floor, and tile installers and finishers | 6240 |
| Cement masons, concrete finishers, and terrazzo workers | 6250 |
| Construction laborers | 6260 |
| Paving, surfacing, and tamping equipment operators | 6300 |
| Pile-driver operators | 6310 |
| Operating engineers and other construction equipment operators | 6320 |
| Drywall installers, ceiling tile installers, and tapers | 6330 |
| Electricians | 6355 |
| Glaziers | 6360 |
| Insulation workers | 6400 |
| Painters, construction and maintenance | 6420 |
| Paperhangers | 6430 |
| Pipelayers, plumbers, pipefitters, and steamfitters | 6440 |
| Plasterers and stucco masons | 6460 |
| Reinforcing iron and rebar workers | 6500 |
| Roofers | 6515 |
| Sheet metal workers | 6520 |
| Structural iron and steel workers | 6530 |
| Solar photovoltaic installers | 6540 |
| Helpers, construction trades | 6600 |
| Construction and building inspectors | 6660 |
| Elevator installers and repairers | 6700 |
| Fence erectors | 6710 |
| Hazardous materials removal workers | 6720 |
| Highway maintenance workers | 6730 |
| Rail-track laying and maintenance equipment operators | 6740 |
| Septic tank servicers and sewer pipe cleaners | 6750 |
| Miscellaneous construction and related workers | 6765 |
| Derrick, rotary drill, and service unit operators, oil, gas, and mining | 6800 |
| Earth drillers, except oil and gas | 6820 |
| Explosives workers, ordnance handling experts, and blasters | 6830 |
| Mining machine operators | 6840 |
| Roof bolters, mining | 6910 |
| Roustabouts, oil and gas | 6920 |
| Helpers—extraction workers | 6930 |
| Other extraction workers | 6940 |
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| **Installation, maintenance, and repair occupations** | 7000–7630 |
| First-line supervisors of mechanics, installers, and repairers | 7000 |
| Computer, automated teller, and office machine repairers | 7010 |
| Radio and telecommunications equipment installers and repairers | 7020 |
| Avionics technicians | 7030 |
| Electric motor, power tool, and related repairers | 7040 |
| Electrical and electronics installers and repairers, transportation equipment | 7050 |
| Electrical and electronics repairers, industrial and utility | 7100 |
| Electronic equipment installers and repairers, motor vehicles | 7110 |
| Electronic home entertainment equipment installers and repairers | 7120 |
| Security and fire alarm systems installers | 7130 |
| Aircraft mechanics and service technicians | 7140 |
| Automotive body and related repairers | 7150 |
| Automotive glass installers and repairers | 7160 |
| Automotive service technicians and mechanics | 7200 |
| Bus and truck mechanics and diesel engine specialists | 7210 |
| Heavy vehicle and mobile equipment service technicians and mechanics | 7220 |
| Small engine mechanics | 7240 |
| Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers | 7260 |
| Control and valve installers and repairers | 7300 |
| Heating, air conditioning, and refrigeration mechanics and installers | 7315 |
| Home appliance repairers | 7320 |
| Industrial and refractory machinery mechanics | 7330 |
| Maintenance and repair workers, general | 7340 |
| Maintenance workers, machinery | 7350 |
| Millwrights | 7360 |
| Electrical power-line installers and repairers | 7410 |
| Telecommunications line installers and repairers | 7420 |
| Precision instrument and equipment repairers | 7430 |
| Wind turbine service technicians | 7440 |
| Coin, vending, and amusement machine servicers and repairers | 7510 |
| Commercial divers | 7520 |
| Locksmiths and safe repairers | 7540 |
| Manufactured building and mobile home installers | 7550 |
| Riggers | 7560 |
| Signal and track switch repairers | 7600 |
| Helpers—installation, maintenance, and repair workers | 7610 |
| Other installation, maintenance, and repair workers | 7630 |
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| **Production, transportation, and material moving occupations** | **7700–9750** |
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| **Production occupations** | 7700–8965 |
| First-line supervisors of production and operating workers | 7700 |
| Aircraft structure, surfaces, rigging, and systems assemblers | 7710 |
| Electrical, electronics, and electromechanical assemblers | 7720 |
| Engine and other machine assemblers | 7730 |
| Structural metal fabricators and fitters | 7740 |
| Miscellaneous assemblers and fabricators | 7750 |
| Bakers | 7800 |
| Butchers and other meat, poultry, and fish processing workers | 7810 |
| Food and tobacco roasting, baking, and drying machine operators and tenders | 7830 |
| Food batchmakers | 7840 |
| Food cooking machine operators and tenders | 7850 |
| Food processing workers, all other | 7855 |
| Computer control programmers and operators | 7900 |
| Extruding and drawing machine setters, operators, and tenders, metal and plastic | 7920 |
| Forging machine setters, operators, and tenders, metal and plastic | 7930 |
| Rolling machine setters, operators, and tenders, metal and plastic | 7940 |
| Cutting, punching, and press machine setters, operators, and tenders, metal and plastic | 7950 |
| Drilling and boring machine tool setters, operators, and tenders, metal and plastic | 7960 |
| Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic | 8000 |
| Lathe and turning machine tool setters, operators, and tenders, metal and plastic | 8010 |
| Milling and planing machine setters, operators, and tenders, metal and plastic | 8020 |
| Machinists | 8030 |
| Metal furnace operators, tenders, pourers, and casters | 8040 |
| Model makers and patternmakers, metal and plastic | 8060 |
| Molders and molding machine setters, operators, and tenders, metal and plastic | 8100 |
| Multiple machine tool setters, operators, and tenders, metal and plastic | 8120 |
| Tool and die makers | 8130 |
| Welding, soldering, and brazing workers | 8140 |
| Heat treating equipment setters, operators, and tenders, metal and plastic | 8150 |
| Layout workers, metal and plastic | 8160 |
| Plating and coating machine setters, operators, and tenders, metal and plastic | 8200 |
| Tool grinders, filers, and sharpeners | 8210 |
| Metal workers and plastic workers, all other | 8220 |
| Prepress technicians and workers | 8250 |
| Printing press operators | 8255 |
| Print binding and finishing workers | 8256 |
| Laundry and dry-cleaning workers | 8300 |
| Pressers, textile, garment, and related materials | 8310 |
| Sewing machine operators | 8320 |
| Shoe and leather workers and repairers | 8330 |
| Shoe machine operators and tenders | 8340 |
| Tailors, dressmakers, and sewers | 8350 |
| Textile bleaching and dyeing machine operators and tenders | 8360 |
| Textile cutting machine setters, operators, and tenders | 8400 |
| Textile knitting and weaving machine setters, operators, and tenders | 8410 |
| Textile winding, twisting, and drawing out machine setters, operators, and tenders | 8420 |
| Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers | 8430 |
| Fabric and apparel patternmakers | 8440 |
| Upholsterers | 8450 |
| Textile, apparel, and furnishings workers, all other | 8460 |
| Cabinetmakers and bench carpenters | 8500 |
| Furniture finishers | 8510 |
| Model makers and patternmakers, wood | 8520 |
| Sawing machine setters, operators, and tenders, wood | 8530 |
| Woodworking machine setters, operators, and tenders, except sawing | 8540 |
| Woodworkers, all other | 8550 |
| Power plant operators, distributors, and dispatchers | 8600 |
| Stationary engineers and boiler operators | 8610 |
| Water and wastewater treatment plant and system operators | 8620 |
| Miscellaneous plant and system operators | 8630 |
| Chemical processing machine setters, operators, and tenders | 8640 |
| Crushing, grinding, polishing, mixing, and blending workers | 8650 |
| Cutting workers | 8710 |
| Extruding, forming, pressing, and compacting machine setters, operators, and tenders | 8720 |
| Furnace, kiln, oven, drier, and kettle operators and tenders | 8730 |
| Inspectors, testers, sorters, samplers, and weighers | 8740 |
| Jewelers and precious stone and metal workers | 8750 |
| Medical, dental, and ophthalmic laboratory technicians | 8760 |
| Packaging and filling machine operators and tenders | 8800 |
| Painting workers | 8810 |
| Photographic process workers and processing machine operators | 8830 |
| Semiconductor processors | 8840 |
| Adhesive bonding machine operators and tenders | 8850 |
| Cleaning, washing, and metal pickling equipment operators and tenders | 8860 |
| Cooling and freezing equipment operators and tenders | 8900 |
| Etchers and engravers | 8910 |
| Molders, shapers, and casters, except metal and plastic | 8920 |
| Paper goods machine setters, operators, and tenders | 8930 |
| Tire builders | 8940 |
| Helpers—production workers | 8950 |
| Production workers, all other | 8965 |
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| **Transportation and material moving occupations** | 9000–9750 |
| Supervisors of transportation and material moving workers | 9000 |
| Aircraft pilots and flight engineers | 9030 |
| Air traffic controllers and airfield operations specialists | 9040 |
| Flight attendants | 9050 |
| Ambulance drivers and attendants, except emergency medical technicians | 9110 |
| Bus drivers | 9120 |
| Driver/sales workers and truck drivers | 9130 |
| Taxi drivers and chauffeurs | 9140 |
| Motor vehicle operators, all other | 9150 |
| Locomotive engineers and operators | 9200 |
| Railroad brake, signal, and switch operators | 9230 |
| Railroad conductors and yardmasters | 9240 |
| Subway, streetcar, and other rail transportation workers | 9260 |
| Sailors and marine oilers | 9300 |
| Ship and boat captains and operators | 9310 |
| Ship engineers | 9330 |
| Bridge and lock tenders | 9340 |
| Parking lot attendants | 9350 |
| Automotive and watercraft service attendants | 9360 |
| Transportation inspectors | 9410 |
| Transportation attendants, except flight attendants | 9415 |
| Other transportation workers | 9420 |
| Conveyor operators and tenders | 9500 |
| Crane and tower operators | 9510 |
| Dredge, excavating, and loading machine operators | 9520 |
| Hoist and winch operators | 9560 |
| Industrial truck and tractor operators | 9600 |
| Cleaners of vehicles and equipment | 9610 |
| Laborers and freight, stock, and material movers, hand | 9620 |
| Machine feeders and offbearers | 9630 |
| Packers and packagers, hand | 9640 |
| Pumping station operators | 9650 |
| Refuse and recyclable material collectors | 9720 |
| Mine shuttle car operators | 9730 |
| Tank car, truck, and ship loaders | 9740 |
| Material moving workers, all other | 9750 |

1. See *Sample Design* in *CPS Tech Paper(s) 77, 66, 63, 40 based on the cohorts of interest*,at [CPS Technical Documentation](https://www.census.gov/programs-surveys/cps/technical-documentation/complete.html) [↑](#footnote-ref-1)