Tobacco Longitudinal Mortality Study

Analysis File

Reference Manual, Public Version 1.0

Mortality Follow-up 1985–2019

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Reference Manual
for
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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 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]

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

2. 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.

3. 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.

4. 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.

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[1] See *Sample Design* in *CPS Tech Paper(s) 77, 66, 63, 40 based on the cohorts of interest*, at CPS Technical Documentation

5. By "raking," ratio adjust the TLMS eligible records from step 4.

   a. 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.

   b. 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.

   c. 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).

TLMS Index as of September 2023

ANALYSIS FILE

Variable Descriptions and Codes

Tobacco Use Supplement ID   TLMSID

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

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

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

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

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

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

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

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

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

CIGARETTE USE QUESTIONS

Smoking Frequency, 12 Months Ago CIGNOW12

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

CIGARETTE USE QUESTIONS

Smoking Status   CIGSTAT

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

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

CIGARETTE USE QUESTIONS

Years Smoked Daily   SMKYRS

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

CIGARETTE USE QUESTIONS

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

CIGARETTE USE QUESTIONS

Type of Cigarettes Smoked   CIGTYPE

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

CIGARETTE USE QUESTIONS

Menthol Cigarettes Long Term MNTH6MO

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

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

CIGARETTE USE QUESTIONS

First Cigarette of Day   SMKAM

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

CIGARETTE USE QUESTIONS

Days Smoked, Last 30 Days   SMKDAY30

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

CIGARETTE USE QUESTIONS

Days Smoked During 30 Days, 12 Months Ago   SMKDAY30_12

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

CIGARETTE USE QUESTIONS

Daily Smoker Last 6 Months   SMKDLY6M

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

CIGARETTE USE QUESTIONS

When Last Smoked Daily   LASTDLY

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

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

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

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

CESSATION QUESTIONS

Times Stopped in Last 12 Months   STPNUM12

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

CESSATION QUESTIONS

Longest Quit in Last 12 Months, Current   LENSTP12_C

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

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
```

CESSATION QUESTIONS

Tried to Quit in Last 12 Months   QTCMPLT12

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

CESSATION QUESTIONS

Tried to Quit Ever   QTCMPLT

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

METHODS USED DURING PAST 12-MONTH QUIT ATTEMPTS

Quit Methods: Cessation Aids   QTMTHD1 Return to Index

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

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

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

METHODS USED DURING PAST 12-MONTH QUIT ATTEMPTS

Quit Methods: Other; Alternate Tobacco Forms   QTMTHD3B

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

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

METHODS USED DURING PAST 12-MONTH QUIT ATTEMPTS

Quit Methods: Other; Cold Turkey   QTMTHD3D

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

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
```

DOCTOR/DENTIST ADVICE TO STOP SMOKING

Medical Advice to Quit in Last 12 Months   ADVQT_DOC

DESCRIPTION: Questions asked to determine if person received care from a medical doctor in the last 12 months and whether <u>any</u> 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

DOCTOR/DENTIST ADVICE TO STOP SMOKING

Dental Advice to Quit in Last 12 Months   ADVQT_DEN

DESCRIPTION: Questions asked to determine if person received care from a dentist in the last 12 months and whether <u>any</u> 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

FORMER SMOKERS

How Long Since Quitting   LONGQT_F

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](#)

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.)

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.)

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
(e.g. <u>PIPESTAT</u>)

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
```

ALTERNATE TOBACCO USE

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. <u>PIPE</u>DAY)

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**
                                                          (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:

<AltTob>YRS	0-97	>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**
(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:

<AltTob>LQT	1-25567	>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

ALTERNATE TOBACCO USE

Smokeless Tobacco Brands   SMOKELESS_BRAND

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

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**

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

TOBACCO USE RESPONDENTS

Respondent Relationship TUS   RELTRF_TOB

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

TOBACCO USE RESPONDENTS

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

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

AGE, SEX, RACE, & ETHNICITY

Sex   SEX

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

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

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)
```

AGE, SEX, RACE, & ETHNICITY

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

AGE, SEX, RACE, & ETHNICITY

```
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

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

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 & HOUSEHOLD RELATIONSHIP

Marital Status   MARITAL

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

MARITAL STATUS & HOUSEHOLD RELATIONSHIP

Respondent Relationship CPS   RELTRF_CPS

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

MARITAL STATUS & HOUSEHOLD RELATIONSHIP

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 & INCOME

Education Level   EDUCATION

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 & INCOME

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

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

OTHER DEMOGRAPHICS

Citizenship Status   CITIZENSHIP

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

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

OTHER DEMOGRAPHICS

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

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

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

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

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

DESCRIPTION: Job specific 2010 industrial classification codes. Specific codes for industries are given in Appendix D and a description of the harmonization process is in Appendix B.

SAS Type: CHAR
SAS Format: $4

COHORTS AVAILABLE: All cohorts

WORK FORCE VARIABLES

Major Industry Classification Recode 1   IND_2010_1

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

WORK FORCE VARIABLES

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

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
```

WORK FORCE VARIABLES

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

WORK FORCE VARIABLES

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

DESCRIPTION: Job specific 2010 occupation classification codes. Specific codes for occupations are given in Appendix E and a description of the harmonization process is in Appendix C.

SAS Type: CHAR
SAS Format: $4

COHORTS AVAILABLE: All cohorts

Major Occupation Classification Recode 1   OCC_2010_1

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

WORK FORCE VARIABLES

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

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

WORK FORCE VARIABLES

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

WORK FORCE VARIABLES

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

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

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.

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

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.

DEATH CERTIFICATE INFORMATION

Year of Death   YEAR_OF_DEATH

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

DEATH CERTIFICATE INFORMATION

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	.	.	.	.	.	.	.	.	.	.
1995	.	.	.	.	.	.	.	.	.	.
1996	.	.	.	.	.	.	.	.	.	.
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

DEATH CERTIFICATE INFORMATION

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

DEATH CERTIFICATE INFORMATION

Month of Death   MONTH_OF_DEATH

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
```

DEATH CERTIFICATE INFORMATION

Day of Death   DAY_OF_DEATH

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

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

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

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

DEATH CERTIFICATE INFORMATION

Contributing Causes of Death from NDI   COND_01 – COND_20

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

A. [NCHS 113 Causes of Death for ICD-10](#)
B. [U.S. Census Bureau Industry Classification](#)
C. [U.S. Census Bureau Occupation Classification](#)
D. [2010 Census Industry Codes](#)
E. [2010 Census Occupation Codes](#)

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

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.

2. 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.

3. 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".

4. 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](#)

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.

2. 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.

3. 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".

4. 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

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

Source: U.S. Bureau of Labor Statistics, link here.

2010 CENSUS OCCUPATIONAL CLASSIFICATION

OCCUPATION TITLE	2010 CENSUS CODE(S)
Management, professional, and related occupations	**0010–3540**
Management, business, and financial operations occupations	0010–0950
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

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
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
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
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
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
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
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

Service occupations   3600–4650

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
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
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
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
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

Sales and office occupations   **4700–5940**

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

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

Natural resources, construction, and maintenance occupations — 6000–7630

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

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

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

Production, transportation, and material moving occupations   7700–9750

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
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