

National Longitudinal Mortality Study

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Public Use Microdata Sample (PUMS) File
Release 5.1 Documentation

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The National Longitudinal Mortality Study Public-use File Variable Reference Manual, Version 5.1

Introduction

The National Longitudinal Mortality Study (NLMS) is a national, longitudinal, mortality study sponsored by the National Heart, Lung, and Blood Institute, the National Cancer Institute, the National Institute on Aging (all part of the National Institutes of Health), the National Center for Health Statistics part of the Center for Disease Control and Prevention and the U.S. Census Bureau for the purpose of studying the effects of differentials in demographic and socio-economic characteristics on mortality.

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

The main NLMS consists of a database developed for the purpose of studying the effects of demographic and socio-economic characteristics on differentials in U.S. mortality rates. The NLMS is a unique research database in that it is based on a multistage stratified sample of the non-institutionalized population of the United States. It consists of U.S. Census Bureau data from Current Population Surveys (CPS) and a subset of the 1980 Census combined with death certificate information to identify mortality status and cause of death. The study currently has approximately 3.8 million records with over 550,000 identified mortality cases. The content of the socio-economic variables available offers researchers the potential to answer questions on mortality differentials for

a variety of key socio-economic and demographic subgroups not covered as extensively in other databases. This project has generated over 90 publications in various prominent scholarly, scientific, and public health related journals.

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

Design and Content of the NLMS PUMS Files

There are three file formats in the NLMS PUM:

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

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

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

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

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

same variables as in the other public files in this release but also includes variables on cigarette use and the use of other forms of tobacco.

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

The State of Residence Variable

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

WARNING: Change in Mortality Processing

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

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

Index to NLMS Public-Use File Variables

ITEM NO.	DESCRIPTION	VARIABLE NAME	PAGE NO.	LOCATION	SIZE
	File and Survey Variables				
•	Record Number	RECORD	6	1	7
•	Adjusted Weight	WT	6	21	4
•	Household ID No.	HHID	7	25	7
•	Presence of SSN	SSNYN	7	61	1
	Geography				
•	State Recode	STATER	8	67	2

•	Urban/Rural Status	URBAN	8	48	1
•	SMSAST Status	SMSAST	9	49	1
	Age and Gender				
•	Age at Time of Interview	AGE	10	8	2
•	Sex	SEX	10	11	1
•	Region of Birth	POB	11	18	3
	Race and Ethnicity				
•	Race	RACE	12	10	1
•	Hispanic Origin	HISP	12	13	1
	Household and Relationship Characteristics				
•	Marital Status	MS	13	12	1
•	Relationship to Reference Person	RELTRF	13	34	1
•	Number of People in HH	HHNUM	14	32	2
•	Housing Tenure	TENURE	14	71	1
	Other Demographics				
•	Highest Grade Completed	EDUC	15	16	2
•	Veteran Status	VT	16	62	1
•	Citizenship	CITIZEN	16	72	1
•	Health	HEALTH	16	73	2
	Work Force Variables				
•	Employment Status Recode	ESR	17	47	1
•	4 Digit Industry Code	IND	17	41	4
•	Major Industry Code	MAJIND	18	45	2
•	4 Digit Occupation Code	OCC	18	35	4
•	Major Occupation Code	MAJOCC	19	39	2
•	Recoded Class of Worker	RCOW	19	69	2

ITEM NO.	DESCRIPTION	VARIABLE NAME	PAGE NO.	LOCATION	SIZE
	Income and Poverty				

•	Inflation Adjusted Income	ADJINC	20	14	2
•	Income as Percent of Poverty Level	POVPCT	21	65	2
	Health Insurance				
•	Health Insurance Status	HISTATUS	22	63	1
•	Health Insurance Type	HITYPE	22	64	1
	Death Certificate Information				
•	Death Indicator	INDDEA	23	50	1
•	Cause of Death	CAUSE113	23	51	3
•	Length of Follow-up	FOLLOW	24	54	4
•	Day of Week of Death	DAYOD	24	58	1
•	Hospital Type	HOSP	25	59	1
•	Hospital Death Indicator	HOSPD	26	60	1
	Death Determination				
•	Indicator of Algorithmic Death	INDALG	27	75	1
	Tobacco Use (tu only)				
•	Smoked More than 100 Cigarettes	SMOK100	28	76	1
•	Age Started Smoking	AGESMK	28	77	2
•	Cigarette Smoking Status	SMOKSTAT	28	79	1
•	Rules for Smoking Cigarettes in the Home	SMOKHOME	29	80	1
•	Currently Use Smokeless Tobacco	CURRUSE	30	81	5
•	Ever Use Smokeless Tobacco	EVERUSE	31	86	5

NLMS PUMS Variable Descriptions, Codes, and Frequencies

FILE AND SURVEY VARIABLES

1. Record Number RECORD

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

FREQUENCIES

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

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

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

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

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

2. Adjusted Weight WT

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

3. Household Identification Number HHID

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

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

4. Presence of SSN SSNNYN

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

CODES AND FREQUENCIES

Codes		File 11		File 6a		File 6b		File 6c		Tobacco use
0	Not present on CPS	758,586		416,439		180,830		313,244		241,760

1	Present on CPS	1,076,486	624,280	345,054	431,918		251,522
		1,835,072	1,040,719	525,884	745,162		493,282

GEOGRAPHY VARIABLES

5. State Recode STATER **Return to Index**

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

Codes are given in Appendix A.

6. Urban/Rural Status URBAN

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

- (1) places of 2,500 or more inhabitants incorporated or identifiable as cities, villages, boroughs and towns, but excluding those persons living in the rural portions of extended cities; and
- (2) other territories, incorporated and unincorporated included in urbanized areas.

The population not classified as urban constitutes the rural population.

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

CODES AND FREQUENCIES

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

7. SMSA Status SMSAST **Return to Index**

DESCRIPTION: Is a household located in an SMSA or not? The definition of SMSA is based on county boundaries included in the region defining the SMSA at the time of the 1970 or 1980

Census. A central city is defined as the city or cities associated with the name designation of the SMSA Codes.

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

CODES AND FREQUENCIES

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

AGE AND GENDER VARIABLES

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

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

CODES

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

9. Sex SEX

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

CODES AND FREQUENCIES

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

10. Region of Birth POB

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

CODES AND FREQUENCIES

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

RACE AND ETHNICITY VARIABLES

11. Race RACE

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

CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b	File 6c	Tobacco use
.	Unknown or missing	2,890	2,890	0	93
1	White	1,584,581	902,265	452,584	615,742
2	Black	180,475	105,663	48,509	78,620
					45,561

3	American Indian or Alaskan Native	18,859	9,436	5,734	11,143	5,222
4	Asian or Pacific Islander	43,128	19,511	14,872	29,469	15,555
5	Other nonwhite	5,139	954	4,185	10,095	2,458
		1,835,072	1,040,719	525,884	745,162	493,282

12. Hispanic Origin HISP

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

CODES AND FREQUENCIES

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

HOUSEHOLD AND RELATIONSHIP CHARACTERISTICS VARIABLES

13. Marital Status MS

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DESCRIPTION: Marital status at time of survey.

CODES AND FREQUENCIES

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

14. Relationship to Reference Person RELTRF

DESCRIPTION: Relationship to reference person within the household.

CODES AND FREQUENCIES

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

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

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

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

16. Housing Tenure TENURE

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

CODES AND FREQUENCIES

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

OTHER DEMOGRAPHIC VARIABLES

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

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

CODES AND FREQUENCIES

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

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

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

CODES AND FREQUENCIES

Codes		File 11	File 6a	File 6b	File 6c	Tobacco use
.	Missing	396,051	248,581	79,898	204,241	11,047
0	Not a veteran	1,226,547	662,083	386,115	488,435	420,588
1	Veteran	212,474	130,055	59,871	52,486	61,647

19. Citizenship CITIZEN

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

CODES AND FREQUENCIES

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

20. Health HEALTH

DESCRIPTION: This variable is the response to the question: "Would you say that [person]'s health in general is".

CODES AND FREQUENCIES

Codes		File 11	File 6a	File 6b	File 6c	Tobacco use
.	Missing, Don't know, Refuse, or Not in universe	1,450,943	1,040,719	383,838	76,175	186,881
1	Excellent	135,586	0	50,725	239,353	92,020
2	Very good	118,394	0	43,587	209,339	97,651
3	Good	87,106	0	31,564	151,566	75,367
4	Fair	29,674	0	11,074	48,292	28,551
5	Poor	13,369	0	5,096	20,437	12,812
		1,835,072	1,040,719	525,884	745,162	493,282

WORK FORCE VARIABLES

21. Employment Status Recode ESR

[Return to Index](#)**DESCRIPTION:** Recoded employment status.

CODES AND FREQUENCIES

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

22. 4 Digit Industry Code IND

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

CODES AND FREQUENCIES

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

23. Major Industry Code MAJIND

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DESCRIPTION: Major industry classification recode of 2007 specific industry.

CODES AND FREQUENCIES

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

24. 4 Digit Occupation Code OCC

DESCRIPTION: Job specific 2000 occupational classification codes. Specific codes for occupations are given in Appendix D, the 2000 Census of Population—Occupational Classification System.

CODES AND FREQUENCIES

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

25. Major Occupation Code MAJOCC

Return to Index

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

CODES AND FREQUENCIES

Codes		File 11	File 6a	File 6b	File 6c	Tobacco use
..	Unknown, missing, or not reported		855,325	503,000	220,970	367,920
01	Management, business and financial occupations	(0010-0950)	125,472	63,791	41,682	54,110
02	Professional and related occupations	(1000-3540)	190,303	96,729	63,697	78,002
03	Service Occupations	(3600-4650)	118,839	66,926	35,352	55,958
04	Sales and related occupations	(4700-4965)	110,250	57,885	36,027	43,458
05	Office and administrative support occupations	(5000-5940)	150,910	85,235	46,581	51,987
06	Farming, fishing and forestry occupations	(6005-6130)	16,564	10,796	4,000	4,037
07	Construction and extraction occupations	(6200-6940)	56,273	31,857	16,522	23,485
08	Installation, maintenance, and repair occupations	(7000-7630)	37,456	21,285	11,235	13,466
09	Productions occupations	(7700-8950)	107,663	65,580	29,998	29,139
						28,679

10	Transportation and material moving occupations	(9000-9750)	65,693	37,466	19,689	23,539	20,273
11	Armed Forces	(9800-9830)	324	169	131	61	88
			1,835,072	1,040,719	525,884	745,162	493,282

26. Recoded Class of Worker RCOW

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

CODES AND FREQUENCIES

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

INCOME AND POVERTY VARIABLES

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

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

CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b	File 6c	Tobacco use	
.	Income missing or unknown	44,269	43,186	797	886	4,984
1	\$0 - \$4,999	85,167	40,979	29,126	39,250	24,538
2	\$5,000 - \$7,499	84,435	51,954	22,324	25,802	13,906
3	\$7,499 - \$9,999	73,507	38,744	22,921	29,426	21,959
4	\$10,000 - \$12,499	80,888	45,789	23,112	31,092	21,844
5	\$12,500 - \$14,999	95,669	60,055	23,911	32,087	23,754
6	\$15,000 - \$19,999	149,275	80,504	45,488	61,524	38,576

7	\$20,000 - \$24,999	164,161	97,841	43,918	61,234	43,375	
8	\$25,000 - \$29,999	177,229	115,213	41,584	55,614	40,242	
9	\$30,000 - \$34,999	98,332	41,763	37,661	51,306	35,525	
10	\$35,000 - \$39,999	164,039	111,912	35,288	46,908	34,433	
11	\$40,000 - \$49,999	149,184	61,363	58,866	81,409	50,351	
12	\$50,000 - \$59,999	215,819	150,152	43,589	63,531	42,380	
13	\$60,000 - \$74,999	101,192	38,625	41,381	64,343	41,964	
14	GE \$75,000	151,906	62,639	55,918	100,750	55,451	
		1,835,072	1,040,719	525,884	745,162	493,282	

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

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

CODES AND FREQUENCIES

Codes		File 11	File 6a	File 6b	File 6c	Tobacco use
.	Missing				19,307	6,214
1	LE 50% of the poverty level	104,179	56,135	31,756	34,291	22,124
2	GT 50% but LE 75% of the poverty level	72,626	43,123	19,446	25,882	12,500
3	GT 75% but LE 100% of the poverty level	91,309	56,531	22,389	32,320	17,673
4	GT 100% but LE 125% of the poverty level	87,807	50,828	24,131	34,273	19,562
5	GT 125% but LE 150% of the poverty level	101,937	64,482	24,214	36,210	24,664
6	GT 150% but LE 175% of the poverty level	107,479	69,002	25,081	36,580	24,747
7	GT 175% but LE 200% of the poverty level	85,418	46,701	25,406	35,756	20,828
8	GT 200% but LE 225% of the poverty level	112,753	74,207	25,455	35,566	25,860
9	GT 225% but LE 250% of the poverty level	84,653	47,630	24,758	33,887	21,131

10	GT 250% but LE 275% of the poverty level	94,899	59,044	24,190	32,311	22,787
11	GT 275% but LE 300% of the poverty level	95,408	60,981	23,036	31,154	21,820
12	GT 300% but LE 325% of the poverty level	72,777	40,074	22,240	29,345	20,485
13	GT 325% but LE 350% of the poverty level	68,629	37,577	21,119	27,412	19,536
14	GT 350% but LE 375% of the poverty level	72,392	43,299	19,706	25,510	19,791
15	GT 375% but LE 400% of the poverty level	52,198	25,706	17,850	24,103	14,440
16	GT 400% but LE 450% of the poverty level	124,409	76,944	32,171	42,580	33,044
17	GT 450% but LE 500% of the poverty level	70,651	32,476	25,717	35,282	23,212
18	GT 500% but LE 550% of the poverty level	75,049	43,567	21,456	28,785	23,113
19	GT 550% but LE 600% of the poverty level	45,234	19,451	17,065	24,283	15,569
20	GT 600% but LE 700% of the poverty level	81,988	43,811	25,427	35,093	26,604
21	GT 700% of the poverty level	133,277	49,150	53,271	85,232	57,578
		1,835,072	1,040,719	525,884	745,162	493,282

HEALTH INSURANCE VARIABLES

29. Health Insurance Status HSTATUS **Return to Index**

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

CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b	File 6c	Tobacco use
.	Not in universe	577,765	577,765	0	0
0	Person is not covered by an acceptable health insurance plan	202,642	84,848	73,266	113,782
1	Had insurance	1,054,665	378,106	452,618	631,380

		1,835,072	1,040,719	525,884	745,162	493,282
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30. Health Insurance Type HITYPE

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

CODES AND FREQUENCIES

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

DEATH CERTIFICATE INFORMATION VARIABLES

31. Death Indicator INDDEA

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

CODES AND FREQUENCIES

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

32. Cause of Death CAUSE113

DESCRIPTION: A recode of the underlying cause of death from the death certificate into 113 causes of death as defined by the National Center for Health Statistics. See Appendix E

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

33. Length of Follow-up FOLLOW

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

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

CODES

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

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

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

34. Day of Week of Death DAYOD

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

CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b	File 6c	Tobacco use
.	Alive or missing	1,674,322	993,789	499,914	720,730

1	Sunday	22,717	6,738	3,635	3,380	2,815
2	Monday	23,215	6,794	3,728	3,474	2,914
3	Tuesday	22,759	6,602	3,691	3,593	2,932
4	Wednesday	22,676	6,572	3,755	3,447	2,796
5	Thursday	22,939	6,576	3,747	3,339	2,809
6	Friday	23,133	6,826	3,697	3,725	3,000
7	Saturday	23,311	6,822	3,717	3,474	2,887
		1,835,072	1,040,719	525,884	745,162	493,282

35. Hospital Type HOSP

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DESCRIPTION: Describes the place of death.

CODES AND FREQUENCIES

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

36. Hospital Death Indicator HOSPD

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

CODES AND FREQUENCIES

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

37. Indicator for Algorithmic Death INDALG

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

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

By combining the variable, INDALG, with the mortality indicator, INDDEA, only the mortality

determined through the computer screening algorithm would be used in the analyses. An example of an appropriate application would involve:

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

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

CODES

B1 - Fail edit, not match scored.

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

1 - Death identified by computer screening algorithm only.

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

CODES AND FREQUENCIES

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

TOBACCO USE VARIABLES

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

38. Smoked More than 100 Cigarettes SMOK100

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

CODES AND FREQUENCIES

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

39. Age Started Smoking AGESMK

DESCRIPTION: This variable is the response to the question: "How old was [person] when he/she started smoking cigarettes fairly regularly?" In order to be included in the File tu, there must be a yes/

no response to the question, variable 37.

40. Cigarette Smoking Status SMOKSTAT

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

CODES AND FREQUENCIES

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

41. Rules for Smoking Cigarettes in the Home SMOKHOME

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

CODES AND FREQUENCIES

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

42. Currently Use Smokeless Tobacco CURREUSE

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[Index](#)

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

- 1st digit, current user of any other tobacco option other than cigarettes
- 2nd digit, current user of pipes
- 3rd digit, current user of cigars
- 4th digit, current user of chewing tobacco
- 5th digit, current user of snuff

For each digit the possible response values are:

- 1 – a yes response to, are you a current user of this other tobacco-use option
- 2 – a no response to, are you a current user of this other tobacco-use option
- 9 – response is not eligible, that is, other survey questions have ruled out the possibility of a response to this item, or the response is missing for any reason.

CODES AND FREQUENCIES

Codes	Tobacco use
Blank	24,730
11111	30
11112	53
11121	7
11122	558
11211	13
11212	110
11221	45
11222	2,520
12111	51
12112	225
12121	65
12122	4,908
12211	371
12212	5,476

12221		3,241
12222		0
22222		415,560
99999		35,319
		493,282

43. Ever Use Smokeless Tobacco EVERUSE

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

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

2nd digit, has [] ever used pipes

3rd digit, has [] ever used cigars

4th digit, has [] ever used chewing tobacco

5th digit, has [] ever used snuff

For each digit the possible response values are:

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

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

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

CODES AND FREQUENCIES

Codes	Tobacco use
Blank	24,730
11111	2,481
11112	1,595
11121	243
11122	6,006
11211	329
11212	1,177
11221	392
11222	9,085

12111		314
12112		1,294
12121		334
12122		9,830
12211		941
12212		8,829
12221		4,406
12222		57
22222		385,920
99999		35,319
		493,282

APPENDICES

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- State Concatenated Codes
- FIPSSTATE Codes
- 2007 Industrial Classification System
- 2000 Occupational Classification System
- 113 Causes of Death from ICD-10

Appendix A STATE CONCATENATED CODES

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New-England Division		Middle Atlantic Division		East North Central Division	
Maine	11	New York	21	Ohio	31

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

Appendix B

FIPSSTATE CODES

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901 — Alabama
902 — Alaska
904 — Arizona
905 — Arkansas
906 — California
908 — Colorado
909 — Connecticut
910 — Delaware
911 — District of Columbia
912 — Florida
913 — Georgia
915 — Hawaii
916 — Idaho
917 — Illinois
918 — Indiana
919 — Iowa
920 — Kansas
921 — Kentucky
922 — Louisiana
923 — Maine
924 — Maryland
925 — Massachusetts
926 — Michigan
927 — Minnesota
928 — Mississippi
929 — Missouri
930 — Montana
931 — Nebraska
932 — Nevada
933 — New Hampshire
934 — New Jersey
935 — New Mexico
936 — New York
937 — North Carolina
938 — North Dakota
939 — Ohio
940 — Oklahoma
941 — Oregon
942 — Pennsylvania
944 — Rhode Island
945 — South Carolina
946 — South Dakota
947 — Tennessee
948 — Texas
949 — Utah
950 — Vermont
951 — Virginia
953 — Washington
954 — West Virginia

955 — Wisconsin
956 — Wyoming

Appendix C

2007 INDUSTRIAL CLASSIFICATION SYSTEM

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INDUSTRY CODE CROSSWALK		
2007 Census Code	Census 2007 Category Title	
0170	Crop production	
0180	Animal production	
0190	Forestry except logging	
0270	Logging	
0280	Fishing, hunting and trapping	
0290	Support activities for agriculture and forestry	
0370	Oil and gas extraction	
0380	Coal mining	
0390	Metal ore mining	
0470	Nonmetallic mineral mining and quarrying	
0480	Not specified type of mining	
0490	Support activities for mining	
0570	Electric power generation, transmission and distribution	
0580	Natural gas distribution	
0590	Electric and gas, and other combinations	
0670	Water, steam, air-conditioning, and irrigation systems	
0680	Sewage treatment facilities	
0690	Not specified utilities	
0770	Construction (the cleaning of buildings and dwellings is incidental during construction and immediately after construction)	
1070	Animal food, grain and oilseed milling	
1080	Sugar and confectionery products	

1090	Fruit and vegetable preserving and specialty food manufacturing	
1170	Dairy product manufacturing	
1180	Animal slaughtering and processing	
1190	Retail bakeries	
1270	Bakeries, except retail	
1280	Seafood and other miscellaneous foods, n.e.c.	
1290	Not specified food industries	
1370	Beverage manufacturing	
1390	Tobacco manufacturing	
1470	Fiber, yarn, and thread mills	
1480	Fabric mills, except knitting mills	
1490	Textile and fabric finishing and fabric coating mills	
1570	Carpet and rug mills	
1590	Textile product mills, except carpet and rug	
1670	Knitting fabric mills, and apparel knitting mills	
1680	Cut and sew apparel manufacturing	
1690	Apparel accessories and other apparel manufacturing	
1770	Footwear manufacturing	
1790	Leather tanning and finishing and other allied products manufacturing	
1870	Pulp, paper, and paperboard mills	
1880	Paperboard containers and boxes	
1890	Miscellaneous paper and pulp products	
1990	Printing and related support activities	
2070	Petroleum refining	
2090	Miscellaneous petroleum and coal products	
2170	Resin, synthetic rubber, and fibers and filaments manufacturing	
2180	Agricultural chemical manufacturing	

2190	Pharmaceutical and medicine manufacturing	
2270	Paint, coating, and adhesive manufacturing	
2280	Soap, cleaning compound, and cosmetics manufacturing	
2290	Industrial and miscellaneous chemicals	
2370	Plastics product manufacturing	
2380	Tire manufacturing	
2390	Rubber products, except tires, manufacturing	
2470	Pottery, ceramics, and plumbing fixture manufacturing	
2480	Structural clay product manufacturing	
2490	Glass and glass product manufacturing	
2570	Cement, concrete, lime, and gypsum product manufacturing	
2590	Miscellaneous nonmetallic mineral product manufacturing	
2670	Iron and steel mills and steel product manufacturing	
2680	Aluminum production and processing	
2690	Nonferrous metal (except aluminum) production and processing	
2770	Foundries	
2780	Metal forgings and stampings	
2790	Cutlery and hand tool manufacturing	
2870	Structural metals, and boiler, tank, and shipping container manufacturing	
2880	Machine shops; turned product; screw, nut, and bolt manufacturing	
2890	Coating, engraving, heat treating, and allied activities	
2970	Ordnance	
2980	Miscellaneous fabricated metal products manufacturing	

2990	Not specified metal industries	
3070	Agricultural implement manufacturing	
3080	Construction, and mining and oil and gas field machinery manufacturing	
3090	Commercial and service industry machinery manufacturing	
3170	Metalworking machinery manufacturing	
3180	Engines, turbines, and power transmission equipment manufacturing	
3190	Machinery manufacturing, n.e.c.	
3290	Not specified machinery manufacturing	
3360	Computer and peripheral equipment manufacturing	
3370	Communications, and audio and video equipment manufacturing	
3380	Navigational, measuring, electromedical, and control instruments manufacturing	
3390	Electronic component and product manufacturing, n.e.c.	
3470	Household appliance manufacturing	
3490	Electric lighting and electrical equipment manufacturing, and other electrical component manufacturing, n.e.c.	
3570	Motor vehicles and motor vehicle equipment manufacturing	
3580	Aircraft and parts manufacturing	
3590	Aerospace products and parts manufacturing	
3670	Railroad rolling stock manufacturing	
3680	Ship and boat building	
3690	Other transportation equipment manufacturing	
3770	Sawmills and wood preservation	

3780	Veneer, plywood, and engineered wood products	
3790	Prefabricated wood buildings and mobile homes manufacturing	
3870	Miscellaneous wood product manufacturing	
3890	Furniture and related product manufacturing	
3960	Medical equipment and supplies manufacturing	
3970	Sporting and athletic goods, and doll, toy and game manufacturing	
3980	Miscellaneous manufacturing, n.e.c.	
3990	Not specified manufacturing industries	
4070	Motor vehicles, parts and supplies merchant wholesalers	
4080	Furniture and home furnishing merchant wholesalers	
4090	Lumber and other construction materials merchant wholesalers	
4170	Professional and commercial equipment and supplies merchant wholesalers	
4180	Metals and minerals, except petroleum, merchant wholesalers	
4190	Electrical and electronic goods merchant wholesalers	
4260	Hardware, plumbing and heating equipment, and supplies merchant wholesalers	
4270	Machinery, equipment, and supplies merchant wholesalers	
4280	Recyclable material merchant wholesalers	
4290	Miscellaneous durable goods merchant wholesalers	
4370	Paper and paper products merchant wholesalers	
4380	Drugs, sundries, and chemical and allied products merchant wholesalers	

4390	Apparel, fabrics, and notions merchant wholesalers	
4470	Groceries and related products merchant wholesalers	
4480	Farm product raw materials merchant wholesalers	
4490	Petroleum and petroleum products merchant wholesalers	
4560	Alcoholic beverages merchant wholesalers	
4570	Farm supplies merchant wholesalers	
4580	Miscellaneous nondurable goods merchant wholesalers	
4585	Wholesale electronic markets and agents and brokers	
4590	Not specified wholesale trade	
4670	Automobile dealers	
4680	Other motor vehicle dealers	
4690	Auto parts, accessories, and tire stores	
4770	Furniture and home furnishings stores	
4780	Household appliance stores	
4790	Radio, TV, and computer stores	
4870	Building material and supplies dealers	
4880	Hardware stores	
4890	Lawn and garden equipment and supplies stores	
4970	Grocery stores	
4980	Specialty food stores	
4990	Beer, wine, and liquor stores	
5070	Pharmacies and drug stores	
5080	Health and personal care, except drug, stores	
5090	Gasoline stations	
5170	Clothing stores	
5180	Shoe stores	
5190	Jewelry, luggage, and leather goods stores	
5270	Sporting goods, camera, and hobby and toy stores	
5280	Sewing, needlework, and piece goods stores	

5290	Music stores	
5370	Book stores and news dealers	
5380	Department stores and discount stores	
5390	Miscellaneous general merchandise stores	
5470	Retail florists	
5480	Office supplies and stationery stores	
5490	Used merchandise stores	
5570	Gift, novelty, and souvenir shops	
5580	Miscellaneous retail stores	
5590	Electronic shopping	
5591	Electronic auctions	
5592	Mail order houses	
5670	Vending machine operators	
5680	Fuel dealers	
5690	Other direct selling establishments	
5790	Not specified retail trade	
6070	Air transportation	
6080	Rail transportation	
6090	Water transportation	
6170	Truck transportation	
6180	Bus service and urban transit	
6190	Taxi and limousine service	
6270	Pipeline transportation	
6280	Scenic and sightseeing transportation	
6290	Services incidental to transportation	
6370	Postal Service	
6380	Couriers and messengers	
6390	Warehousing and storage	
6470	Newspaper publishers	
6480	Periodical, book, and directory publishers	
6490	Software publishers	
6570	Motion pictures and video industries	
6590	Sound recording industries	
6670	Radio and television broadcasting and cable subscription programming	

6672	Internet publishing and broadcasting and web search portals	
6680	Wired telecommunications carriers	
6690	Other telecommunications services	
6770	Libraries and archives	
6780	Other information services	
6695	Data processing, hosting, and related services	
6870	Banking and related activities	
6880	Savings institutions, including credit unions	
6890	Non-depository credit and related activities	
6970	Securities, commodities, funds, trusts, and other financial investments	
6990	Insurance carriers and related activities	
7070	Real estate	
7080	Automotive equipment rental and leasing	
7170	Video tape and disk rental	
7180	Other consumer goods rental	
7190	Commercial, industrial, and other intangible assets rental and leasing	
7270	Legal services	
7280	Accounting, tax preparation, bookkeeping, and payroll services	
7290	Architectural, engineering, and related services	
7370	Specialized design services	
7380	Computer systems design and related services	
7390	Management, scientific, and technical consulting services	
7460	Scientific research and development services	
7470	Advertising and related services	
7480	Veterinary services	
7490	Other professional, scientific, and technical services	

7570	Management of companies and enterprises	
7580	Employment services	
7590	Business support services	
7670	Travel arrangements and reservation services	
7680	Investigation and security services	
7690	Services to buildings and dwellings (except cleaning during construction and immediately after construction)	
7770	Landscaping services	
7780	Other administrative and other support services	
7790	Waste management and remediation services	
7860	Elementary and secondary schools	
7870	Colleges and universities, including junior colleges	
7880	Business, technical, and trade schools and training	
7890	Other schools and instruction, and educational support services	
7970	Offices of physicians	
7980	Offices of dentists	
7990	Offices of chiropractors	
8070	Offices of optometrists	
8080	Offices of other health practitioners	
8090	Outpatient care centers	
8170	Home health care services	
8180	Other health care services	
8190	Hospitals	
8270	Nursing care facilities	
8290	Residential care facilities, without nursing	
8370	Individual and family services	
8380	Community food and housing, and emergency services	
8390	Vocational rehabilitation services	
8470	Child day care services	

8560	Independent artists, performing arts, spectator sports, and related industries	
8570	Museums, art galleries, historical sites, and similar institutions	
8580	Bowling centers	
8590	Other amusement, gambling, and recreation industries	
8660	Traveler accommodation	
8670	Recreational vehicle parks and camps, and rooming and boarding houses	
8680	Restaurants and other food services	
8690	Drinking places, alcoholic beverages	
8770	Automotive repair and maintenance	
8780	Car washes	
8790	Electronic and precision equipment repair and maintenance	
8870	Commercial and industrial machinery and equipment repair and maintenance	
8880	Personal and household goods repair and maintenance	
8890	Footwear and leather goods repair	
8970	Barber shops	
8980	Beauty salons	
8990	Nail salons and other personal care services	
9070	Drycleaning and laundry services	
9080	Funeral homes, and cemeteries and crematories	
9090	Other personal services	
9160	Religious organizations	
9170	Civic, social, advocacy organizations, and grantmaking and giving services	
9180	Labor unions	
9190	Business, professional, political, and similar organizations	

9290	Private households	
9370	Executive offices and legislative bodies	
9380	Public finance activities	
9390	Other general government and support	
9470	Justice, public order, and safety activities	
9480	Administration of human resource programs	
9490	Administration of environmental quality and housing programs	
9570	Administration of economic programs and space research	
9590	National security and international affairs	
9670	U. S. Army	
9680	U. S. Air Force	
9690	U. S. Navy	
9770	U. S. Marines	
9780	U. S. Coast Guard	
9790	Armed Forces, Branch not specified	
9870	Military Reserves or National Guard	
9920	Unemployed and last worked five years ago or earlier or never worked	

Appendix D

2000 OCCUPATIONAL CLASSIFICATION SYSTEM

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2000 Occupation Code	Occupation Category
0010	Chief Executives
0020	General and Operations Managers
0030	Legislators
0040	Advertising and Promotions Managers
0050	Marketing and Sales Managers
0060	Public Relations Managers
0010	Administrative Services Managers

0110	Computer and Information Systems Managers
0210	Financial Managers
0310	Human Resources Managers
0410	Industrial Production Managers
0510	Purchasing Managers
0610	Transportation, Storage, and Distribution Managers
0200	Farm, Ranch, and Other Agricultural Managers
0210	Farmers and Ranchers
0220	Construction Managers
0230	Education Administrators
0300	Engineering Managers
0310	Food Service Managers
0320	Funeral Directors
0330	Gaming Managers
0340	Lodging Managers
0350	Medical and Health Services Managers
0360	Natural Sciences Managers
0400	Postmasters and Mail Superintendents
0410	Property, Real Estate, and Community Association Managers
0420	Social and Community Service Managers
0430	Managers, All Other
0500	Agents and Business Managers of Artists, Performers, and Athletes
0510	Purchasing Agents and Buyers, Farm Products
0520	Wholesale and Retail Buyers, Except Farm Products

0530	Purchasing Agents, Except Wholesale, Retail, and Farm Products
0540	Claims Adjusters, Appraisers, Examiners, and Investigators
0560	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
0600	Cost Estimators
0620	Human Resources, Training, and Labor Relations Specialists
0700	Logisticians
0710	Management Analysts
0720	Meeting and Convention Planners

0730	Other Business Operations Specialists
0800	Accountants and Auditors
0810	Appraisers and Assessors of Real Estate
0820	Budget Analysts
0830	Credit Analysts
0840	Financial Analysts
0850	Personal Financial Advisors
0860	Insurance Underwriters
0900	Financial Examiners
0910	Loan Counselors and Officers
0930	Tax Examiners, Collectors, and Revenue Agents
0940	Tax Preparers
0950	Financial Specialists, All Other
1000	Computer Scientists and Systems Analysts
1010	Computer Programmers
1020	Computer Software Engineers
1040	Computer Support Specialists
1060	Database Administrators
1100	Network and Computer Systems Administrators
1110	Network Systems and Data Communications Analysts
1200	Actuaries
1210	Mathematicians
1220	Operations Research Analysts
1230	Statisticians
1240	Miscellaneous Mathematical Occupations
1300	Architects, Except Naval
1310	Surveyors, Cartographers, and Photogrammetrists
1320	Aerospace Engineers
1330	Agricultural Engineers
1340	Biomedical Engineers
1350	Chemical Engineers
1360	Civil Engineers
1400	Computer Hardware Engineers
1410	Electrical and Electronics Engineers
1420	Environmental Engineers
1430	Industrial Engineers, Including Health and Safety
1440	Marine Engineers and Naval Architects
1450	Materials Engineers
1460	Mechanical Engineers
1500	Mining and Geological Engineers, Including Mining Safety Engineers

1510	Nuclear Engineers
1520	Petroleum Engineers
1530	Engineers, All Other
1540	Drafters
1550	Engineering Technicians, Except Drafters
1560	Surveying and Mapping Technicians
1600	Agricultural and Food Scientists
1610	Biological Scientists
1640	Conservation Scientists and Foresters
1650	Medical Scientists
1700	Astronomers and Physicists
1710	Atmospheric and Space Scientists
1720	Chemists and Materials Scientists
1740	Environmental Scientists and Geoscientists
1760	Physical Scientists, All Other
1800	Economists
1810	Market and Survey Researchers
1820	Psychologists
1830	Sociologists
1840	Urban and Regional Planners
1860	Miscellaneous Social Scientists and Related Workers
1900	Agricultural and Food Science Technicians
1910	Biological Technicians
1920	Chemical Technicians
1930	Geological and Petroleum Technicians
1940	Nuclear Technicians
1960	Other Life, Physical, and Social Science Technicians
2000	Counselors
2010	Social Workers
2020	Miscellaneous Community and Social Service Specialists
2040	Clergy
2050	Directors, Religious Activities and Education
2060	Religious Workers, All Other
2100	Lawyers
2110	Judges, Magistrates, and Other Judicial Workers
2140	Paralegals and Legal Assistants
2150	Miscellaneous Legal Support Workers
2200	Postsecondary Teachers
2300	Preschool and Kindergarten Teachers
2310	Elementary and Middle School Teachers

2320	Secondary School Teachers
2330	Special Education Teachers
2340	Other Teachers and Instructors
2400	Archivists, Curators, and Museum Technicians
2430	Librarians
2440	Library Technicians
2540	Teacher Assistants
2550	Other Education, Training, and Library Workers
2600	Artists and Related Workers
2630	Designers
2700	Actors
2710	Producers and Directors
2720	Athletes, Coaches, Umpires, and Related Workers
2740	Dancers and Choreographers
2750	Musicians, Singers, and Related Workers
2760	Entertainers and Performers, Sports and Related Workers, All Other
2800	Announcers
2810	News Analysts, Reporters and Correspondents
2820	Public Relations Specialists
2830	Editors
2840	Technical Writers
2850	Writers and Authors
2860	Miscellaneous Media and Communication Workers
2900	Broadcast and Sound Engineering Technicians and Radio Operators
2910	Photographers
2920	Television, Video, and Motion Picture Camera Operators and Editors
2960	Media and Communication Equipment Workers, All Other
3000	Chiropractors
3010	Dentists
3030	Dietitians and Nutritionists
3040	Optometrists
3050	Pharmacists
3060	Physicians and Surgeons
3110	Physician Assistants
3120	Podiatrists
3130	Registered Nurses
3140	Audiologists
3150	Occupational Therapists

3160	Physical Therapists
3200	Radiation Therapists
3210	Recreational Therapists
3220	Respiratory Therapists
3230	Speech-Language Pathologists
3240	Therapists, All Other
3250	Veterinarians
3260	Health Diagnosing and Treating Practitioners, All Other
3300	Clinical Laboratory Technologists and Technicians
3310	Dental Hygienists
3320	Diagnostic Related Technologists and Technicians
3400	Emergency Medical Technicians and Paramedics
3410	Health Diagnosing and Treating Practitioner Support Technicians
3500	Licensed Practical and Licensed Vocational Nurses
3510	Medical Records and Health Information Technicians
3520	Opticians, Dispensing
3530	Miscellaneous Health Technologists and Technicians
3540	Other Healthcare Practitioners and Technical Occupations
3600	Nursing, Psychiatric, and Home Health Aides
3610	Occupational Therapist Assistants and Aides
3620	Physical Therapist Assistants and Aides
3630	Massage Therapists
3640	Dental Assistants
3650	Medical Assistants and Other Healthcare Support Occupations
3700	First-Line Supervisors/Managers of Correctional Officers
3710	First-Line Supervisors/Managers of Police and Detectives
3720	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers
3730	Supervisors, Protective Service Workers, All Other
3740	Fire Fighters
3750	Fire Inspectors
3800	Bailiffs, Correctional Officers, and Jailers

3820	Detectives and Criminal Investigators
3830	Fish and Game Wardens
3840	Parking Enforcement Workers
3850	Police and Sheriff's Patrol Officers
3860	Transit and Railroad Police
3900	Animal Control Workers
3910	Private Detectives and Investigators
3920	Security Guards and Gaming Surveillance Officers
3940	Crossing Guards
3950	Lifeguards and Other Protective Service Workers
4000	Chefs and Head Cooks
4010	First-Line Supervisors/Managers of Food Preparation and Serving Workers
4020	Cooks
4030	Food Preparation Workers
4040	Bartenders
4050	Combined Food Preparation and Serving Workers, Including Fast Food
4060	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
4110	Waiters and Waitresses
4120	Food Servers, Nonrestaurant
4130	Dining Room and Cafeteria Attendants and Bartender Helpers
4140	Dishwashers
4150	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
4160	Food Preparation and Serving Related Workers, All Other
4200	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers
4210	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers
4220	Janitors and Building Cleaners
4230	Maids and Housekeeping Cleaners
4240	Pest Control Workers
4250	Grounds Maintenance Workers
4300	First-Line Supervisors/Managers of Gaming Workers
4320	First-Line Supervisors/Managers of Personal Service Workers
4340	Animal Trainers
4350	Nonfarm Animal Caretakers
4400	Gaming Services Workers

4410	Motion Picture Projectionists
4420	Ushers, Lobby Attendants, and Ticket Takers
4430	Miscellaneous Entertainment Attendants and Related Workers
4460	Funeral Service Workers
4500	Barbers
4510	Hairdressers, Hairstylists, and Cosmetologists
4520	Miscellaneous Personal Appearance Workers
4530	Baggage Porters, Bellhops, and Concierges
4540	Tour and Travel Guides
4550	Transportation Attendants
4600	Child Care Workers
4610	Personal and Home Care Aides
4620	Recreation and Fitness Workers
4640	Residential Advisors
4650	Personal Care and Service Workers, All Other
4700	First-Line Supervisors/Managers of Retail Sales Workers
4710	First-Line Supervisors/Managers of Non-Retail Sales Workers
4720	Cashiers
4740	Counter and Rental Clerks
4750	Parts Salespersons
4760	Retail Salespersons
4800	Advertising Sales Agents
4810	Insurance Sales Agents
4820	Securities, Commodities, and Financial Services Sales Agents
4830	Travel Agents
4840	Sales Representatives, Services, All Other
4850	Sales Representatives, Wholesale and Manufacturing
4900	Models, Demonstrators, and Product Promoters
4920	Real Estate Brokers and Sales Agents
4930	Sales Engineers
4940	Telemarketers
4950	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
4960	Sales and Related Workers, All Other
5000	First-Line Supervisors/Managers of Office and Administrative Support Workers

5010	Switchboard Operators, Including Answering Service
5020	Telephone Operators
5030	Communications Equipment Operators, All Other
5100	Bill and Account Collectors
5110	Billing and Posting Clerks and Machine Operators
5120	Bookkeeping, Accounting, and Auditing Clerks
5130	Gaming Cage Workers
5140	Payroll and Timekeeping Clerks
5150	Procurement Clerks
5160	Tellers
5200	Brokerage Clerks
5210	Correspondence Clerks
5220	Court, Municipal, and License Clerks
5230	Credit Authorizers, Checkers, and Clerks
5240	Customer Service Representatives
5250	Eligibility Interviewers, Government Programs
5260	File Clerks
5300	Hotel, Motel, and Resort Desk Clerks
5310	Interviewers, Except Eligibility and Loan
5320	Library Assistants, Clerical
5330	Loan Interviewers and Clerks
5340	New Accounts Clerks
5350	Order Clerks
5360	Human Resources Assistants, Except Payroll and Timekeeping
5400	Receptionists and Information Clerks
5410	Reservation and Transportation Ticket Agents and Travel Clerks
5420	Information and Record Clerks, All Other
5500	Cargo and Freight Agents
5510	Couriers and Messengers
5520	Dispatchers
5530	Meter Readers, Utilities
5540	Postal Service Clerks
5550	Postal Service Mail Carriers
5560	Postal Service Mail Sorters, Processors, and Processing Machine Operators
5600	Production, Planning, and Expediting Clerks
5610	Shipping, Receiving, and Traffic Clerks
5620	Stock Clerks and Order Fillers

5630	Weighers, Measurers, Checkers, and Samplers, Recordkeeping
5700	Secretaries and Administrative Assistants
5800	Computer Operators
5810	Data Entry Keyers
5820	Word Processors and Typists
5830	Desktop Publishers
5840	Insurance Claims and Policy Processing Clerks
5850	Mail Clerks and Mail Machine Operators, Except Postal Service
5860	Office Clerks, General
5900	Office Machine Operators, Except Computer
5910	Proofreaders and Copy Markers
5920	Statistical Assistants
5930	Office and Administrative Support Workers, All Other
6000	First-Line Supervisors/Managers/Contractors of Farming, Fishing, and Forestry Workers
6010	Agricultural Inspectors
6020	Animal Breeders
6040	Graders and Sorters, Agricultural Products
6050	Other Agricultural Workers
6100	Fishers and Related Fishing Workers
6110	Hunters and Trappers
6120	Forest and Conservation Workers
6130	Logging Workers
6200	First-Line Supervisors/Managers of Construction Trades and Extraction Workers
6210	Boilermakers
6220	Brickmasons, Blockmasons, and Stonemasons
6230	Carpenters
6240	Carpet, Floor, and Tile Installers and Finishers
6250	Cement Masons, Concrete Finishers, and Terrazzo Workers
6260	Construction Laborers
6300	Paving, Surfacing, and Tamping Equipment Operators
6310	Pile-Driver Operators
6320	Operating Engineers and Other Construction Equipment Operators

6330	Drywall Installers, Ceiling Tile Installers, and Tapers
6350	Electricians
6360	Glaziers
6400	Insulation Workers
6420	Painters, Construction and Maintenance
6430	Paperhanglers
6440	Pipelayers, Plumbers, Pipefitters, and Steamfitters
6460	Plasterers and Stucco Masons
6500	Reinforcing Iron and Rebar Workers
6510	Roofers
6520	Sheet Metal Workers
6530	Structural Iron and Steel Workers
6600	Helpers, Construction Trades
6660	Construction and Building Inspectors
6700	Elevator Installers and Repairers
6710	Fence Erectors
6720	Hazardous Materials Removal Workers
6730	Highway Maintenance Workers
6740	Rail-Track Laying and Maintenance Equipment Operators
6750	Septic Tank Servicers and Sewer Pipe Cleaners
6760	Miscellaneous Construction and Related Workers
6800	Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining
6820	Earth Drillers, Except Oil and Gas
6830	Explosives Workers, Ordnance Handling Experts, and Blasters
6840	Mining Machine Operators
6910	Roof Bolters, Mining
6920	Roustabouts, Oil and Gas
6930	Helpers--Extraction Workers
6940	Other Extraction Workers
7000	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
7010	Computer, Automated Teller, and Office Machine Repairers
7020	Radio and Telecommunications Equipment Installers and Repairers
7030	Avionics Technicians
7040	Electric Motor, Power Tool, and Related Repairers
7050	Electrical and Electronics Installers and Repairers, Transportation Equipment

7100	Electrical and Electronics Repairers, Industrial and Utility
7110	Electronic Equipment Installers and Repairers, Motor Vehicles
7120	Electronic Home Entertainment Equipment Installers and Repairers
7130	Security and Fire Alarm Systems Installers
7140	Aircraft Mechanics and Service Technicians
7150	Automotive Body and Related Repairers
7160	Automotive Glass Installers and Repairers
7200	Automotive Service Technicians and Mechanics
7210	Bus and Truck Mechanics and Diesel Engine Specialists
7220	Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics
7240	Small Engine Mechanics
7260	Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
7300	Control and Valve Installers and Repairers
7310	Heating, Air Conditioning, and Refrigeration Mechanics and Installers
7320	Home Appliance Repairers
7330	Industrial and Refractory Machinery Mechanics
7340	Maintenance and Repair Workers, General
7350	Maintenance Workers, Machinery
7360	Millwrights
7410	Electrical Power-Line Installers and Repairers
7420	Telecommunications Line Installers and Repairers
7430	Precision Instrument and Equipment Repairers
7510	Coin, Vending, and Amusement Machine Servicers and Repairers
7520	Commercial Divers
7540	Locksmiths and Safe Repairers
7550	Manufactured Building and Mobile Home Installers
7560	Riggers
7600	Signal and Track Switch Repairers
7610	Helpers--Installation, Maintenance, and Repair Workers

7620	Other Installation, Maintenance, and Repair Workers
7700	First-Line Supervisors/Managers of Production and Operating Workers
7710	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
7720	Electrical, Electronics, and Electromechanical Assemblers
7730	Engine and Other Machine Assemblers
7740	Structural Metal Fabricators and Fitters
7750	Miscellaneous Assemblers and Fabricators
7800	Bakers
7810	Butchers and Other Meat, Poultry, and Fish Processing Workers
7830	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
7840	Food Batchmakers
7850	Food Cooking Machine Operators and Tenders
7900	Computer Control Programmers and Operators
7920	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
7930	Forging Machine Setters, Operators, and Tenders, Metal and Plastic
7940	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic
7950	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
7960	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
8000	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
8010	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
8020	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
8030	Machinists
8040	Metal Furnace and Kiln Operators and Tenders
8060	Model Makers and Patternmakers, Metal and Plastic
8100	Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic
8120	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic

8130	Tool and Die Makers
8140	Welding, Soldering, and Brazing Workers
8150	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
8160	Lay-Out Workers, Metal and Plastic
8200	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
8210	Tool Grinders, Filers, and Sharpeners
8220	Metalworkers and Plastic Workers, All Other
8230	Bookbinders and Bindery Workers
8240	Job Printers
8250	Prepress Technicians and Workers
8260	Printing Machine Operators
8300	Laundry and Dry-Cleaning Workers
8310	Pressers, Textile, Garment, and Related Materials
8320	Sewing Machine Operators
8330	Shoe and Leather Workers and Repairers
8340	Shoe Machine Operators and Tenders
8350	Tailors, Dressmakers, and Sewers
8360	Textile Bleaching and Dyeing Machine Operators and Tenders
8400	Textile Cutting Machine Setters, Operators, and Tenders
8410	Textile Knitting and Weaving Machine Setters, Operators, and Tenders
8420	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
8430	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
8440	Fabric and Apparel Patternmakers
8450	Upholsterers
8460	Textile, Apparel, and Furnishings Workers, All Other
8500	Cabinetmakers and Bench Carpenters
8510	Furniture Finishers
8520	Model Makers and Patternmakers, Wood
8530	Sawing Machine Setters, Operators, and Tenders, Wood
8540	Woodworking Machine Setters, Operators, and Tenders, Except Sawing
8550	Woodworkers, All Other
8600	Power Plant Operators, Distributors, and Dispatchers

8610	Stationary Engineers and Boiler Operators
8620	Water and Liquid Waste Treatment Plant and System Operators
8630	Miscellaneous Plant and System Operators
8640	Chemical Processing Machine Setters, Operators, and Tenders
8650	Crushing, Grinding, Polishing, Mixing, and Blending Workers
8710	Cutting Workers
8720	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
8730	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
8740	Inspectors, Testers, Sorters, Samplers, and Weighers
8750	Jewelers and Precious Stone and Metal Workers
8760	Medical, Dental, and Ophthalmic Laboratory Technicians
8800	Packaging and Filling Machine Operators and Tenders
8810	Painting Workers
8830	Photographic Process Workers and Processing Machine Operators
8840	Semiconductor Processors
8850	Cementing and Gluing Machine Operators and Tenders
8860	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
8900	Cooling and Freezing Equipment Operators and Tenders
8910	Etchers and Engravers
8920	Molders, Shapers, and Casters, Except Metal and Plastic
8930	Paper Goods Machine Setters, Operators, and Tenders
8940	Tire Builders
8950	Helpers--Production Workers
8960	Production Workers, All Other
9000	Supervisors, Transportation and Material Moving Workers
9030	Aircraft Pilots and Flight Engineers
9040	Air Traffic Controllers and Airfield Operations Specialists
9110	Ambulance Drivers and Attendants, Except Emergency Medical Technicians

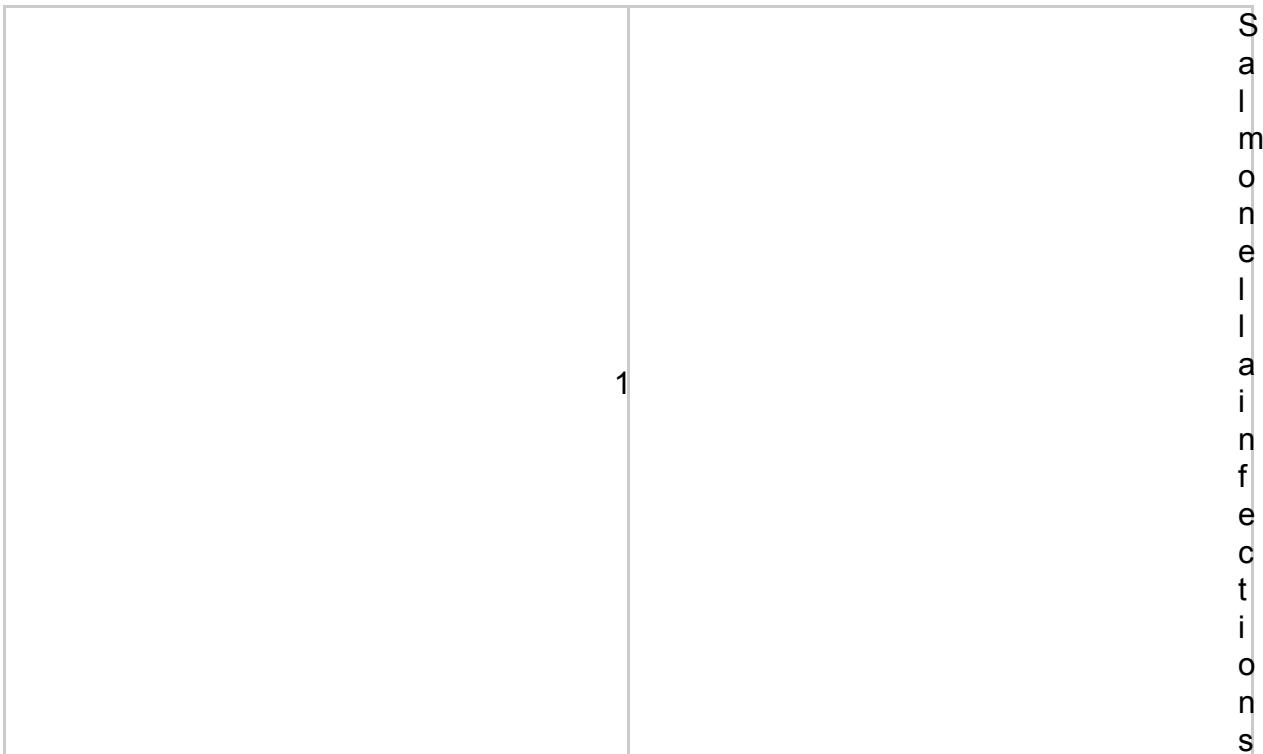
9120	Bus Drivers
9130	Driver/Sales Workers and Truck Drivers
9140	Taxi Drivers and Chauffeurs
9150	Motor Vehicle Operators, All Other
9200	Locomotive Engineers and Operators
9230	Railroad Brake, Signal, and Switch Operators
9240	Railroad Conductors and Yardmasters
9260	Subway, Streetcar, and Other Rail Transportation Workers
9300	Sailors and Marine Oilers
9310	Ship and Boat Captains and Operators
9330	Ship Engineers
9340	Bridge and Lock Tenders
9350	Parking Lot Attendants
9360	Service Station Attendants
9410	Transportation Inspectors
9420	Other Transportation Workers
9500	Conveyor Operators and Tenders
9510	Crane and Tower Operators
9520	Dredge, Excavating, and Loading Machine Operators
9560	Hoist and Winch Operators
9600	Industrial Truck and Tractor Operators
9610	Cleaners of Vehicles and Equipment
9620	Laborers and Freight, Stock, and Material Movers, Hand
9630	Machine Feeders and Offbearers
9640	Packers and Packagers, Hand
9650	Pumping Station Operators
9720	Refuse and Recyclable Material Collectors
9730	Shuttle Car Operators
9740	Tank Car, Truck, and Ship Loaders
9750	Material Moving Workers, All Other
9800	Military Officer Special and Tactical Operations Leaders/Managers
9810	First-Line Enlisted Military Supervisors/Managers
9820	Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members
9830	Military, Rank Not Specified

NCHS 113 CAUSES OF DEATH FROM ICD-10

[Return to Appendix TOC](#) [Return to Main TOC](#) [Return to CAUSE113](#)

In 1992 the CDC's National Center for Health Statistics published a standardized list of 113 selected causes of death, for the general analysis of ICD-10 mortality statistics and for ranking leading causes of death.

Source: www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_11.pdf



Shige-Iosias and amebiasis

Certain other infections

Respiratory tuberculosis
Other tuberculosis

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Whooping cough scars later and erysipelas

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Meningoococcal infection Septicemia Syphilis

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Arthropod-borne viruses
encephalitis
Measles

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Human immunodeficiency virus (HIV) disease association

Malaria

Other

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Malignant neoplasms of colon, rectum and anus

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"heoplasms of liver and intrahepatic biliary ducts

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Malignant melanoma of skin
Malignant neoplasms of breast

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hinges, brain and other parts of central nervous system

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Hodgkin's disease
Non-Hodgkin's lymphoma
Leukemia

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All other and unspotted malignant neoplasms in situ

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Manufactured
Other nutritional
deficiencies

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uterine rheumatism fever and chronic rheumatich heart diseases

Hypertensive heart disease

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Hypertension
Hyperthyroidism
Hypothyroidism
Hepatitis
Hepatitis C

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Other acute ischemic heart diseases

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All other forms of chronic ischemic heart disease

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Diseases of pericardium and acute myocarditis

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(primary) hypertension and hypertension in renal diseases

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Other diseases of arteries, arterioles and capillaries

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Other disorders of circulatory system influences

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Pneumonia
Acute bronchitis
and bronchiolitis

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Unspecified acute lower respiratory infection

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Other chronic lower respiratory diseases

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Pneumococcioses and chemical effects

Pneumonitis due to solid sand in quartz

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Other diseases of respiratory system
Peptic ulcer

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Diseases of appendix Hernia Alcoholic liver disease

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Other chronic liver diseases and cirrhosis

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Choleithiasis and other disorders of gallbladder Acute

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band rapidly progressive nephritis and nephrotic syndrome

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Infections of kidney Hypertrophy
Hyperplasia of prostate

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Inflammatory diseases of female pelvic organs

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Pregnancy with a abortive outcome Other complications of

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pregnancy, child birth and the upper perium

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Certain conditions originating in the period of a

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congenital anomalies, deformations and chromosoma

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■ laboratory findings, notes elsewhere classified

All other diseases (Residual)
Motor vehicle crash

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Unintentional injury: Other land transport
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poisoning and exposure to noxious substances Other and

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on transportation accidents and their sequences

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national self-harm (suicide) by discharge officers arms

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International self-harm (suicide) by other and unspecific

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ed means and their sequence

Assault (homicide) by discharge of firearms

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incidence) by other and unusual species identified means and their sequence

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Discharge of firearms, under determined intent Other and un-

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Complications of medical and surgical care

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