

# National Longitudinal Mortality Study

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Public Use Microdata Sample (PUMS) File  
Release 4 Documentation

February 28, 2013

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## The National Longitudinal Mortality Study Public-use File Variable Reference Manual, Version 4

### 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), and the [National Center for Health Statistics](#), 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 NLMS 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 random 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 2.7 million records with over 341,000 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 70 publications in various prominent scholarly, scientific, and public health related journals.

The main NLMS currently consists of Annual Social and Economic Supplements which cover the period from March 1973 to March 2002; CPS for February 1978, April 1980, August 1980, December 1980, and September 1985; and one 1980 Census cohort—30 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 like 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 two file formats in the NLMS PUMS. **File 11** consists of a subset of the 30 CPS 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 from the CPS combined with a mortality outcome, if there is one. To prevent disclosure, all of the File 11 files 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 a common starting point, denoted as April 1, 1983. These records are then tracked forward for 11 years to observe whether anyone in the file has died.

For those who have died, the underlying cause of death and follow-up time until death have been provided. For those not deceased, the follow-up time provided is the full observation length, or 11 years. In the construction of File 11, it was assumed that these surveys, collected from throughout the early 1980s, would adequately reflect the U.S. non-institutionalized population on April 1, 1983. 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 recalculated to reflect the size of the U.S. non-institutionalized population at that time.

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

This fourth release of the NLMS PUMS is an extension of the previous three releases. It includes additional records and variables, and provides two new six-year follow-up files; the files follow the same structure as the previous NLMS PUMS.

### **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 three geographic variables on this public-use file—state of residence, urban/rural status, and SMSA status—was 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.

## Index to NLMS Public-Use File Variables

ITEM NO.	DESCRIPTION	VARIABLE NAME	PAGE NO.	LOCATION	SIZE
	<b>File and Survey Variables</b>				
1	Record Number	<a href="#">RECORD</a>	5	1	7
2	Adjusted Weight	<a href="#">WT</a>	5	21	4
3	Household ID No.	<a href="#">HHID</a>	5	25	7
4	Presence of SSN	<a href="#">SSNYN</a>	6	62	1
	<b>Geography</b>				
5	State Recode	<a href="#">STATER</a>	7	68	2
6	Urban/Rural Status	<a href="#">URB</a>	7	46	1
7	SMSA Status	<a href="#">SMSAST</a>	8	47	1
	<b>Age and Gender</b>				
8	Age at Time of Interview	<a href="#">AGE</a>	9	8	2
9	Sex	<a href="#">SEX</a>	9	11	1
10	Region of Birth	<a href="#">POB</a>	10	18	3
	<b>Race and Ethnicity</b>				
11	Race	<a href="#">RACE</a>	11	10	1
12	Hispanic Origin	<a href="#">HISP</a>	11	13	1
	<b>Household and Relationship Characteristics</b>				
13	Marital Status	<a href="#">MS</a>	12	12	1
14	Relationship to Reference Person	<a href="#">RELTRF</a>	12	34	1
15	Number of People in HH	<a href="#">HHNUM</a>	13	32	2
16	Housing Tenure	<a href="#">TENURE</a>	13	71	1
	<b>Other Demographics</b>				
17	Highest Grade Completed	<a href="#">EDUC</a>	14	16	2
18	Veteran Status	<a href="#">VT</a>	15	63	1
	<b>Work Force Variables</b>				
19	Employment Status Recode	<a href="#">ESR</a>	16	45	1
20	3 Digit Industry Code	<a href="#">IND</a>	16	40	3
21	Major Industry Code	<a href="#">MAJIND</a>	17	43	2
22	3 Digit Occupation Code	<a href="#">OCC</a>	17	35	3
23	Major Occupation Code	<a href="#">MAJOCC</a>	18	38	2
24	Recoded Class of Worker	<a href="#">RCOW1</a>	18	70	1

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ITEM NO.	DESCRIPTION	VARIABLE NAME	PAGE NO.	LOCATION	SIZE
	<b>Income and Poverty</b>				
25	Inflation Adjusted Income	<a href="#">ADJINC</a>	19	14	2
26	Income as Percent of Poverty Level	<a href="#">POVPCT</a>	20	66	2
	<b>Health Insurance</b>				
27	Health Insurance Status	<a href="#">HISTATUS</a>	21	64	1
28	Health Insurance Type	<a href="#">HITYPE</a>	21	65	1
	<b>Death Certificate Information</b>				
29	Death Indicator	<a href="#">INDDEA</a>	22	48	1
30	Cause of Death	<a href="#">CAUSE113</a>	22	49	3
31	Length of Follow-up	<a href="#">FOLLOW</a>	23	52	4
32	Time from Onset to Cause of Death	<a href="#">INTERV</a>	23	59	1
33	Day of Week of Death	<a href="#">DAYOD</a>	24	56	1
34	Hour of Death	<a href="#">HROD</a>	24	57	1
35	Coroner Certified	<a href="#">CORODC</a>	25	58	1
36	Hospital Type	<a href="#">HOSP</a>	25	60	1
37	Hospital Death Indicator	<a href="#">HOSPD</a>	26	61	1

## 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 1,222,344 records in the 11 years follow up, **File 11**.

There are 1,041,913 records on file from first 6 years of follow up, **File 6a**.

There are 526,373 records on file from the second 6 years of follow up, **File 6b**.

#### 2. Adjusted Weight WT

**DESCRIPTION:** This public use file consists of records from many separate CPS 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, and April 1, 1993 for File 6b. Weights were obtained by ranking age-sex-race group totals by state totals for each survey. Survey weights were then readjusted to the target dates' U.S. population, accounting for the different numbers of records by survey in this each of the three files.

#### 3. Household Identification Number HHID

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

**4. Presence of SSN SSNYN**

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**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
0	Not present on CPS	328,745	328,745	135,105
1	Present on CPS	893,599	713,168	391,268
		1,222,344	1,041,913	526,373



## GEOGRAPHY VARIABLES

### 5. State Recode      STATER

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**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      URB

**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.

#### CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b
.    Unknown	13,229	13,229	0
1    Urban	816,998	691,153	377,736
2    Rural	392,117	337,531	148,637
	1,222,344	1,041,913	526,373

**7. SMSA Status SMSAST**

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**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.

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Unknown	13,243	13,243	0
1	SMSA, in central city	318,094	269,709	148,791
2	SMSA, not in central city	446,281	369,791	229,967
3	Not in an SMSA	444,726	389,170	147,615
		1,222,344	1,041,913	526,373

## AGE AND GENDER VARIABLES

### 8. Age at Time of Interview      AGE

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**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. The records of 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. 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
1	Male	586,474	501,738	250,313
2	Female	636,870	540,175	276,260
		1,223,344	1,041,913	526,573

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

**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
000 Missing POB	83,408	83,155	5,240
101 Born on the African Continent	1,033	751	821
102 Born on the Asian Continent	12,845	9,556	10,829
103 Born in a country in Eastern Europe	3,424	2,683	2,552
104 Born in a country in Western Europe	13,589	10,898	7,454
105 Born in North America (Not U.S. or Mexico)	3,773	3,071	1,903
106 Born in a country on South America Continent	3,059	2,241	3,306
107 Born in a country in Latin America	8,482	6,141	8,856
108 Born in Mexico	9,991	7,125	12,743
109 Born in a country not on a continent (identified as an island)	430	343	237
110 Born elsewhere but not in the U.S.	0	0	555
111 Born in a country not in the U.S., P.R., or outlying possession	5,087	3,966	3,992
901-960 Born in the U.S.	1,077,223	911,983	467,885
	1,222,344	1,041,913	526,373

**RACE AND ETHNICITY VARIABLES****11. Race RACE**[Return to Index](#)

**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
. Unknown or missing	3,100	3,100	0
1 White	1,063,021	903,085	452,946
2 Black	120,122	105,826	48,589
3 American Indian or Eskimo	11,099	9,451	5,747
4 Asian or Pacific Islander	23,735	19,497	14,897
5 Other nonwhite	1,267	954	4,194
	1,222,344	1,041,913	526,373

**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
. Unknown, not available	38,143	33,104	13,062
1 Mexicans	54,053	45,471	35,398
2 Other Hispanics	35,798	29,828	24,584
3 Non-Hispanics	1,094,350	933,510	453,329
	1,222,344	1,041,913	526,373

**HOUSEHOLD AND RELATIONSHIP CHARACTERISTICS VARIABLES****13. Marital Status MS**[Return to Index](#)**DESCRIPTION:** Marital status at time of survey.**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Unknown, persons LT 15 years old	230,659	230,328	69,420
1	Married	590,369	482,891	264,437
2	Widowed	70,802	58,186	31,401
3	Divorced	64,254	50,412	37,504
4	Separated	21,339	17,580	10,108
5	Never married	244,921	202,516	113,503
		1,222,344	1,041,913	526,373

**14. Relationship to Reference Person RELTRF****DESCRIPTION:** Relationship to reference person within the household.**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Unknown	4,904	4,748	192
1	Ref person with other relatives in household	353,430	287,849	163,138
2	Ref person with no other relatives in household	127,843	101,588	67,120
3	Spouse of reference person	287,703	235,481	127,732
4	Child of reference person	387,130	361,647	134,106
5	Other relative of reference person	31,738	26,923	15,738
6	Non-relative of reference person	29,596	23,677	18,347
		1,222,344	1,041,913	526,373

**15. Number of People in Household      HHNUM**

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**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
.	Missing information	25,622	25,622	0
1	Residence is owned by householder	844,805	715,937	360,130
2	Residence is rented by householder	328,786	280,503	156,851
3	Residence is rented for noncash rent by householder	23,131	19,851	9,392
		1,222,344	1,041,913	526,373

## OTHER DEMOGRAPHICS VARIABLES

## 17. Highest Grade Completed EDUC

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**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 enquired 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
.	Missing, invalid (includes children LT 14 years old)	219,236	219,236	69,829
1	None, LT E1	7,706	5,231	3,915
2	Completed E1, E2, E3, E4	16,706	14,359	5,681
3	Completed E5, E6	24,651	21,186	9,342
4	Completed E7, E8	96,910	84,903	26,782
5	Completed H1	55,899	47,736	19,344
6	Completed H2	65,480	55,688	23,448
7	Completed H3	55,101	46,358	25,562
8	Completed H4	364,433	296,662	157,269
9	Completed C1	62,615	50,351	12,264
10	Completed C2	72,684	57,694	14,990
11	Completed C3	28,882	23,147	72,443
12	Completed C4	90,607	71,227	55,115
13	Completed C5	18,809	15,232	3,577
14	Completed C6	42,625	32,903	26,812
		1,222,344	1,041,913	526,373



**18. Veteran Status VT**

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

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Missing	253,707	249,386	80,215
0	Not a veteran	812,583	662,365	368,235
1	Veteran	156,054	130,162	59,923
		1,222,344	1,041,913	508,373

## WORK FORCE VARIABLES

### 19. Employment Status Recode      ESR

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**DESCRIPTION:** Recoded employment status.

#### CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b
. Children LE 13, Armed Forces, missing	216,468	214,554	72,882
1 In the labor force, employed	555,369	449,156	267,025
2 In the labor force, absent from work	29,805	25,266	11,082
3 In the labor force, unemployed, looking for work	46,772	39,781	19,170
4 Not in the labor force, disabled, unable to work	14,678	11,787	11,330
5 Not in the labor force, retired, other (housekeeping, student, etc.)	359,302	301,369	144,884
	1,222,394	1,041,913	526,373

### 20. 3 Digit Industry Code      IND

**DESCRIPTION:** Job specific industrial classification codes. Specific codes for industries are in [Appendix C](#), the 1990 Census of Population—Industrial Classification System.

#### CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b
010-991 Have an industry code	659,654	537,594	221,403
... Never worked, unknown, or LE 13	562,690	504,319	304,970
	1,222,344	1,041,913	526,373

**21. Major Industry Code MAJIND**

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**DESCRIPTION:** Major industry classification recode of 1990 specific industry.

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
..	Industry missing, not reported, unknown	562,690	504,319	221,403
01	Agriculture, Forestry, and Fisheries (010-032)	26,701	22,696	9,788
02	Mining (040-050)	7,244	6,304	2,122
03	Construction (060)	42,559	34,904	18,948
04	Manufacturing (Nondurable Goods) (100-222)	53,428	44,249	21,959
05	Manufacturing (Durable Goods) (230-392)	75,717	63,011	29,547
06	Transportation, Communications & Other Public Utilities (400-472)	44,827	36,627	20,394
07	Wholesale Trade (durable goods) (500-532)	12,557	10,107	5,956
08	Wholesale Trade (nondurable goods) (540-571)	12,745	10,586	5,414
09	Retail Trade (580-691)	111,399	90,996	52,208
10	Finance, Insurance and Real Estate (700-712)	38,279	30,391	19,222
11	Business and Repair Services (721-760)	26,940	20,479	17,054
12	Personal Services (761-791)	27,974	23,389	11,795
13	Entertainment, Recreational Services (800-810)	8,046	6,572	4,545
14	Professional and Related Services (812-893)	139,281	111,211	71,765
15	Public Administration (900-932)	31,744	25,904	14,122
17	Active Military Duty (991)	213	168	131
		1,222,344	1,041,913	526,373

**22. 3 Digit Occupation Code OCC**

**DESCRIPTION:** Job specific 1990 occupational classification codes. Specific codes for occupations are given in [Appendix D](#), the 1990 Census of Population—Occupational Classification System.

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
004-905	Have occupational code	659,875	537,909	304,876
...	Unknown, no occupation or age LT 14	562,469	504,004	221,497
		1,222,344	1,041,913	526,373

**23. Major Occupation Code MAJOCC**[Return to Index](#)**DESCRIPTION:** Major occupation classification recode of 1990 specific occupational codes.**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
..	Unknown, missing, or age LT 14	562,469	504,004	221,497
01	Executive, Administrative, Managerial (003-037)	69,309	54,476	37,786
02	Professional Specialties (043-199)	78,753	62,505	41,464
03	Technicians and Related Support (203-235)	17,921	14,142	9,469
04	Sales (243-285)	72,033	57,873	36,001
05	Administrative Support including Clerical (303-389)	104,302	85,105	46,727
06	Private Household (403-407)	8,372	7,448	2,395
07	Protective Services (413-427)	9,515	7,522	5,021
08	Service Excluding Private and Protective (433-469)	77,812	63,852	36,437
09	Farm Operators and Managers (473-476)	11,006	9,339	3,954
10	Other Agricultural and Related (477-499)	16,909	14,640	5,706
11	Mechanics and Repairers (503-549)	25,296	20,695	10,898
12	Construction Trades (553-599)	27,103	22,019	12,588
13	Extractive (613-617)	1,835	1,640	462
14	Precision Production (628-699)	24,075	20,050	9,623
15	Machine Operators, Assemblers and Inspectors (703-799)	55,461	46,712	20,777
16	Transportation & Materials Moving (803-859)	28,297	23,192	12,567
17	Handlers, Equipment Cleaners, Helpers and Laborers (864-889)	31,661	26,529	12,870
18	Military Occupations (905)	215	170	131
		1,222,344	1,041,913	526,373

**24. Recoded Class of Worker RCOW1****DESCRIPTION:** 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
.	Not in universe, unknown, children LT 15 years old	558,102	499,990	220,600
1	Private industry	476,629	388,307	222,404
2	Government	105,001	85,499	47,191
3	Self-employed	71,568	57,988	34,154
4	Worked without pay	5,550	5,097	838
5	Never worked	5,494	5,032	1,186
		1,222,344	1,041,913	526,373

## INCOME AND POVERTY VARIABLES

### 25. Inflation Adjusted Income      ADJINC

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**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 CPI and then assigned to the appropriate category.

#### CODES AND FREQUENCIES

Codes	File 11	File 6a	File 6b
.    Income missing or unknown	43,660	43,376	795
01   \$0 - \$4,999	48,578	41,055	29,161
02   \$5,000 - \$7,499	59,095	52,043	22,369
03   \$7,499 - \$9,999	45,836	38,798	22,959
04   \$10,000 - \$12,499	53,248	45,860	23,148
05   \$12,500 - \$14,999	67,849	60,124	23,951
06   \$15,000 - \$19,999	95,701	80,642	45,536
07   \$20,000 - \$24,999	112,946	97,958	43,982
08   \$25,000 - \$29,999	129,783	115,299	41,629
09   \$30,000 - \$34,999	55,476	41,842	37,710
10   \$35,000 - \$39,999	124,641	111,960	35,315
11   \$40,000 - \$49,999	82,637	61,431	58,924
12   \$50,000 - \$59,999	165,903	150,173	43,621
13   \$60,000 - \$74,999	54,108	38,680	41,385
14   GE \$75,000	82,883	62,672	55,888
	1,222,344	1,041,913	526,373

**26. 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
01	LE 50% of the poverty level	63,938	56,238	31,803
02	GT 50% but LE 75% of the poverty level	48,384	43,221	19,465
03	GT 75% but LE 100% of the poverty level	63,415	56,624	22,445
04	GT 100% but LE 125% of the poverty level	58,230	50,871	24,166
05	GT 125% but LE 150% of the poverty level	72,195	64,564	24,244
06	GT 150% but LE 175% of the poverty level	77,091	69,100	25,122
07	GT 175% but LE 200% of the poverty level	55,193	46,782	25,441
08	GT 200% but LE 225% of the poverty level	82,929	74,308	25,501
09	GT 225% but LE 250% of the poverty level	56,152	47,712	24,787
10	GT 250% but LE 275% of the poverty level	67,422	59,105	24,220
11	GT 275% but LE 300% of the poverty level	69,225	61,055	23,060
12	GT 300% but LE 325% of the poverty level	48,029	40,111	22,280
13	GT 325% but LE 350% of the poverty level	45,258	37,617	21,137
14	GT 350% but LE 375% of the poverty level	50,348	43,339	19,723
15	GT 375% but LE 400% of the poverty level	32,454	25,752	17,868
16	GT 400% but LE 450% of the poverty level	88,866	76,997	32,172
17	GT 450% but LE 500% of the poverty level	42,298	32,491	25,746
18	GT 500% but LE 550% of the poverty level	51,712	43,577	21,470
19	GT 550% but LE 600% of the poverty level	26,296	19,471	17,069
20	GT 600% but LE 700% of the poverty level	53,632	43,853	25,398
21	GT 700% of the poverty level	69,277	49,125	53,256
		1,222,344	1,041,913	526,373

## HEALTH INSURANCE VARIABLES

### 27. Health Insurance Status      HISTATUS

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

**CODES AND FREQUENCIES**

Codes	File 11	File 6a	File 6b
.    Not in universe	578,150	578,150	0
0    Person is not covered by an acceptable health insurance plan	106,416	85,004	73,308
1    Had insurance	537,778	378,759	453,065
	1,222,344	1,041,913	526,373

### 28. 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
.    Not in universe, missing	578,150	578,150	0
0    Person is not covered by an acceptable health insurance plan	106,416	85,004	73,308
1    Medicare	85,128	55,289	75,694
2    Medicaid	19,242	12,792	34,280
3    ChampUS, ChampVA, VA health care, military/Indian health care, other governmental health care	9,830	6,920	7,908
4    Employer (as provider/as dependent), group coverage through an employer	376,275	271,659	293,165
5    Private (as provider/as dependent), private coverage not through an employer	47,303	32,099	42,018
	1,222,344	1,041,913	526,373

## DEATH CERTIFICATE INFORMATION VARIABLES

### 29. Death Indicator      **INDDEA**

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**DESCRIPTION:** An indicator variable identifying decedents in the file. Deaths occurred within an 11 year follow-up period after the CPS interview.

#### CODES AND FREQUENCIES

Codes		File 11	File 6a	File 6b
0	Alive	1,109,969	994,829	500,399
1	Dead	112,375	47,084	25,974
		1,222,344	1,041,913	526,373

### 30. Cause of Death      **CAUSE113**

**DESCRIPTION:** A recode of the underlying cause of death using the International Classification of Diseases (ICD-9 or ICD-10) codes into 113 groups according to the causes as defined by codes developed 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).



**31. 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 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 are given a value of 2192, the maximum follow-up considered.

**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.**

**32. Time from Onset to Cause of Death INTERV**

**DESCRIPTION:** Identifies the interval of time between the immediate cause of death and the occurrence of death.

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Alive or missing, blank, or illegible on death certificate	1,189,054	1,008,625	526,371
0	Less than 1 hour, minutes, sudden	12,086	12,085	1
1	1-23 hours or statement 'hours'	3,607	3,607	0
2	1-6 days or statement 'days'	4,861	4,861	0
3	7 or more days	11,298	11,297	1
4	Unable to determine	1,438	1,438	0
		1,222,344	1,041,913	526,373

**33. Day of Week of Death DAYOD**

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

**CODES AND FREQUENCIES**

Codes	File 11	File 6a	File 6b
. Alive or missing	1,110,233	995,079	500,438
1 Sunday	15,863	6,733	3,633
2 Monday	16,177	6,781	3,723
3 Tuesday	15,859	6,589	3,684
4 Wednesday	15,919	6,557	3,752
5 Thursday	15,943	6,560	3,744
6 Friday	16,135	6,811	3,688
7 Saturday	16,215	6,803	3,711
	1,222,344	1,041,913	526,373

**34. Hour of Death HROD**

**DESCRIPTION:** The time of the day in which the decedent died.

**CODES AND FREQUENCIES**

Codes	File 11	File 6a	File 6b
. Alive or missing on death certificate	1,163,279	982,857	526,364
1 Hour of death: 12 AM – 5:59 AM	10,198	10,198	0
2 Hour of death: 6 AM – 11:59 AM	13,140	13,139	1
3 Hour of death: 12 PM – 5:59 PM	12,762	12,761	1
4 Hour of death: 6 PM – 11:59 PM	12,396	12,395	1
5 Other nonspecific time of death, including AM or PM, blank	10,569	10,563	6
	1,222,344	1,041,913	526,373

**35. Coroner Certified CORODC**

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**DESCRIPTION:** An indicator variable identifying whether a death certificate was coroner certified or not.

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Alive or missing on death certificate	1,163,279	982,857	526,364
1	Not coroner certified	46,625	46,616	9
2	Coroner certified	12,076	12,076	0
3	Unable to determine	364	364	0
		1,222,344	1,041,913	526,373

**36. Hospital Type HOSP**

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

**CODES AND FREQUENCIES**

Codes		File 11	File 6a	File 6b
.	Alive or missing, blank, unknown, or illegible on death certificate	1,111,081	995,279	500,667
1	Entry on certificate includes hospital or medical center, or is a hospital clinic	68,921	31,120	14,521
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	15,868	4,885	4,047
3	Entry includes the word "clinic" but does not indicate any connection to a hospital.	33	20	0
4	Entry is a street address (or home, or work, etc.) only.	23,358	9,512	6,095
5	Other entries that do not include the words "Hospital" or "Medical Center."	2,956	1,032	1,043
6	Hospice	127	65	0
		1,222,344	1,041,913	526,373

**37. 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
.	Alive or missing, blank, unable to determine, or illegible on death certificate	1,123,697	1,004,386	500,671
1	DOA (a special box must be present and marked on death certificate)	4,216	2,269	732
2	Inpatient	48,584	19,760	11,580
3	Outpatient/Emergency	7,545	2,607	2,205
4	Other hospital visit	25	19	0
5	Not in hospital	38,277	12,872	11,185
		1,222,344	1,041,913	526,373

## APPENDICES

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- A. [State Concatenated Codes](#)
- B. [FIPSSTATE Codes](#)
- C. [1990 Industrial Classification System](#)
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- E. [113 Causes of Death from ICD-10](#)

**Appendix A**  
**STATE CONCATENATED CODES**

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<b>New-England Division</b>		<b>Middle Atlantic Division</b>		<b>East North Central Division</b>	
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				
<b>West North Central Division</b>		<b>South Atlantic Division</b>		<b>East South Central Division</b>	
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		
<b>West South Central Division</b>		<b>Mountain Division</b>		<b>Pacific Division</b>	
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**  
**FIPSTATE CODES**

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901 — Alabama	942 — Pennsylvania
902 — Alaska	944 — Rhode Island
904 — Arizona	945 — South Carolina
905 — Arkansas	946 — South Dakota
906 — California	947 — Tennessee
908 — Colorado	948 — Texas
909 — Connecticut	949 — Utah
910 — Delaware	950 — Vermont
911 — District of Columbia	951 — Virginia
912 — Florida	953 — Washington
913 — Georgia	954 — West Virginia
915 — Hawaii	955 — Wisconsin
916 — Idaho	956 — Wyoming
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	

**Appendix C**  
**1990 INDUSTRIAL CLASSIFICATION SYSTEM**

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Numbers in parentheses following the industry categories are the 1987 SIC definitions. The abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

<b>1990 Industry Code</b>	<b>Industry Category</b>
	<b>AGRICULTURE</b>
010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
020	Landscape and horticultural services (078)
030	Agricultural services, n.e.c. (071, 072, 075, 076)
	<b>FORESTRY AND FISHERIES</b>
031	Forestry
032	Fishing, hunting, and trapping (09)
	<b>MINING</b>
040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
050	Nonmetallic mining and quarrying, except fuel (14)
<b>060</b>	<b>CONSTRUCTION (15, 16, 17)</b>
	<b>MANUFACTURING</b>
	<b>Nondurable Goods</b>
100	Meat products (201)
101	Dairy products (202)
102	Canned, frozen and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207, 209)
122	Not specified food industries
130	Tobacco manufactures (21)
132	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)
142	Yarn, thread, and fabric mills (221-224, 228)



NLMS PUMS – Appendix C: 1990 Industrial Classification System

1990 Industry Code	Industry Category
	<b>MANUFACTURING, Nondurable Goods, cont.</b>
150	Miscellaneous textile mill products (229)
151	Apparel and accessories, except knit (231-238)
152	Miscellaneous fabricated textile products (239)
160	Pulp, paper, and paperboard mills (261-263)
161	Miscellaneous paper and pulp products (267)
162	Paperboard containers and boxes (265)
171	Newspaper publishing and printing (271)
172	Printing, publishing, and allied industries, except newspapers (272-279)
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
191	Agricultural chemicals (287)
192	Industrial and miscellaneous chemicals (281,286, 289)
200	Petroleum refining (291)
201	Miscellaneous petroleum and coal products (295, 299)
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212	Miscellaneous plastics products (308)
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222	Leather products, except footwear (315-317, 319)
	<b>Durable Goods</b>
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
242	Furniture and fixtures (25)
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324, 327)
252	Structural clay products (325)
261	Pottery and related products (326)
262	Miscellaneous nonmetallic mineral and stone products (328, 329)
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272	Primary aluminum industries (3334, part 334, 3353-3355, 3363, 3365)
280	Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
281	Cutlery, handtools, and general hardware (342)
282	Fabricated structural metal products (344)

NLMS PUMS – Appendix C: 1990 Industrial Classification System

1990 Industry Code	Industry Category
	<b>MANUFACTURING, Durable Goods, cont.</b>
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301	Not specified metal industries
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312	Construction and material handling machines (353)
320	Metalworking machinery (354)
321	Office and accounting machines (3578, 3579)
322	Computers and related equipment (3571-3577)
331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332	Not specified machinery
340	Household appliances (363)
341	Radio, TV, and communication equipment (365, 366)
342	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
350	Not specified electrical machinery, equipment, and supplies
351	Motor vehicles and motor vehicle equipment (371)
352	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
371	Scientific and controlling instruments (381, 382 except 3827)
372	Medical, dental, and optical instruments and supplies (3827, 384, 385)
380	Photographic equipment and supplies (386)
381	Watches, clocks, and clockwork operated devices (387)
382	Not specified professional equipment (manufacturing)
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 except 394)
392	Not specified manufacturing industries
	<b>TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES</b>
400	Railroads (40)
401	Bus service and urban transit (41, except 412)
402	Taxicab service (412)
410	Trucking service (421, 423)
411	Warehousing and storage (422)
412	US Postal Service (43)
420	Water transportation (44)

NLMS PUMS – Appendix C: 1990 Industrial Classification System

<b>1990 Industry Code</b>	<b>Industry Category</b>
	<b>TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES, cont.</b>
421	Air transportation (45)
422	Pipe lines, except natural gas (46)
432	Services incidental to transportation (47)
440	Radio and television broadcasting and cable (483, 484)
441	Telephone communications (481)
442	Telegraph and miscellaneous communications services (482, 489)
450	Electric light and power (491)
451	Gas and steam supply systems (492, 496)
452	Electric and gas, and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472	Not specified utilities
	<b>WHOLESALE TRADE</b>
	<b>Durable Goods</b>
500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502	Lumber and construction materials (503)
510	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512	Electrical goods (506)
521	Hardware, plumbing and heating supplies (507)
522	Not specified electrical and hardware (wholesale trade)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532	Miscellaneous wholesale, durable goods (509 except 5093)
	<b>Nondurable Goods</b>
540	Paper and paper products (511)
541	Drugs, chemicals and allied products (512, 516)
542	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm-product raw materials (515)
552	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562	Miscellaneous wholesale, nondurable goods (5192-5199)
571	Not specified wholesale trade
	<b>RETAIL TRADE</b>
580	Lumber and building material retailing (521, 523)
581	Hardware stores (525)

NLMS PUMS – Appendix C: 1990 Industrial Classification System

1990 Industry Code	Industry Category
	<b>RETAIL TRADE, cont.</b>
582	Retail nurseries and garden stores (526)
590	Mobile home dealers (527)
591	Department stores (531)
592	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642	Drug stores (591)
650	Liquor stores (592)
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672	Fuel dealers (598)
681	Retail florists (5992)
682	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691	Not specified retail trade
	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>
700	Banking (60 except 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)

NLMS PUMS – Appendix C: 1990 Industrial Classification System

1990 Industry Code	Industry Category
	<b>FINANCE, INSURANCE, AND REAL ESTATE, cont.</b>
711	Insurance (63, 64)
712	Real estate, including real estate-insurance offices (65)
	<b>BUSINESS AND REPAIR SERVICES</b>
721	Advertising (731)
722	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742	Automotive rental and leasing, without drivers (751)
750	Automotive parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)
	<b>PERSONAL SERVICES</b>
761	Private Households (88)
762	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 except part 7219)
772	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791	Miscellaneous personal services (722, 729)
	<b>ENTERTAINMENT AND RECREATION SERVICES</b>
800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802	Bowling centers (793)
810	Miscellaneous entertainment and recreation services (791, 794, 799)
	<b>PROFESSIONAL AND RELATED SERVICES</b>
812	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822	Offices and clinics of optometrists (8042)
830	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831	HOSPITALS (806)
832	Nursing and personal care facilities (805)
840	Health services, n.e.c. (807, 808, 809)

NLMS PUMS – Appendix C: 1990 Industrial Classification System

1990 Industry Code	Industry Category
	<b>PROFESSIONAL AND RELATED SERVICES, cont.</b>
841	Legal services (81)
842	Elementary and secondary schools (821)
850	Colleges and universities (822)
851	Vocational schools (824)
852	Libraries (823)
860	Educational services, n.e.c. (829)
861	Job training and vocational rehabilitation services (833)
862	Child day care services (part 835)
863	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893	Miscellaneous professional and related services (899)
	<b>PUBLIC ADMINISTRATION</b>
900	Executive and legislative offices (911-913)
901	General government, n.e.c. (919)
910	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922	Administration of human resources programs (94)
930	Administration of environmental quality and housing programs (95)
931	Administration of economic programs (96)
932	National security and international affairs (97)
	<b>ACTIVE DUTY MILITARY</b>
991	Assigned to persons whose labor force status is unemployed and whose last job was Armed Forces

**Appendix D**  
**1990 OCCUPATIONAL CLASSIFICATION SYSTEM**

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Numbers in parentheses following the occupation categories are the 1980 Standard Occupational Classification code equivalents. The abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

<b>1990 Occupation Code</b>	<b>Occupation Category</b>
	<b>MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS</b>
	<b>EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS</b>
003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Postmasters and mail superintendents (1344)
017	Managers, food serving and lodging establishments (1351)
018	Managers, properties and real estate (1353)
019	Funeral directors (part 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, part 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)
	<b>Management Related Occupations</b>
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
029	Purchasing agents and buyers, farm products (1443)
029	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037	Management related occupations, n.e.c. (149)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>PROFESSIONAL SPECIALTY OCCUPATIONS</b>
	<b>Engineers, Architects, and Surveyors</b>
043	Architects (161)
	<b>Engineers</b>
044	Aerospace (1622)
045	Metallurgical and materials (1623)
046	Mining (1624)
047	Petroleum (1625)
048	Chemical (1626)
049	Nuclear (1627)
053	Civil (1628)
054	Agricultural (1632)
055	Electrical and electronic (1633, 1636)
056	Industrial (1634)
057	Mechanical (1635)
058	Marine and naval architects (1637)
059	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
	<b>Mathematical and Computer Scientists</b>
064	Computer systems analysts and scientists (171)
065	Operations and systems researchers and analysts (172)
066	Actuaries (1732)
067	Statisticians (1733)
068	Mathematical scientists, n.e.c. (1739)
	<b>Natural Scientists</b>
069	Physicists and astronomers (1842, 1843)
073	Chemists, except biochemists (1845)
074	Atmospheric and space scientists (1846)
075	Geologists and geodesists (1847)
076	Physical scientists, n.e.c. (1849)
077	Agricultural and food scientists (1853)
078	Biological and life scientists (1854)
079	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
	<b>Health Diagnosing Occupations</b>
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (283)



NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>PROFESSIONAL SPECIALTY OCCUPATIONS, Health Diagnosing Occupations, cont.</b>
089	Health diagnosing practitioners, n.e.c. (289)
	<b>Health Assessment and Treating Occupations</b>
095	Registered nurses (29)
096	Pharmacists (301)
097	Dietitians (302)
	<b>Therapists</b>
098	Respiratory therapists (3031)
099	Occupational therapists (3032)
103	Physical therapists (3033)
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106	Physicians' assistants (304)
	<b>Teachers, Postsecondary</b>
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
115	Chemistry teachers (2214)
116	Physics teachers (2215)
117	Natural science teachers, n.e.c. (2216)
118	Psychology teachers (2217)
119	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)
128	Mathematical science teachers (2227)
129	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>PROFESSIONAL SPECIALTY OCCUPATIONS, Teachers, Postsecondary, cont.</b>
148	Trade and industrial teachers (2246)
149	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
	<b>Teachers, Except Postsecondary</b>
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159	Teachers, n.e.c. (236, 239)
163	Counselors, Educational and Vocational (24)
	<b>Librarians, Archivists, and Curators</b>
164	Librarians (251)
165	Archivists and curators (252)
	<b>Social Scientists and Urban Planners</b>
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169	Social scientists, n.e.c. (1913, 1914, 1919)
173	<b>Urban planners (192)</b>
	<b>Social, Recreation, and Religious Workers</b>
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
	<b>Lawyers and Judges (211-212)</b>
178	Lawyers (211)
179	Judges
	<b>Writers, Artists, Entertainers, and Athletes</b>
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189	Photographers (326)
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195	Editors and reporters (331)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>PROFESSIONAL SPECIALTY OCCUPATIONS, Writers, Artists, Entertainers, and Athletes, cont.</b>
197	Public relations specialists (332)
198	Announcers (333)
199	Athletes (34)
	<b>TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS</b>
	<b>TECHNICIANS AND RELATED SUPPORT OCCUPATIONS</b>
	<b>Health Technologists and Technicians</b>
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208	Health technologists and technicians, n.e.c. (369)
	<b>Technologists and Technicians, Except Health</b>
	<b>Engineering and Related Technologists and Technicians</b>
213	Electrical and electronic technicians (3711)
214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218	Surveying and mapping technicians (373)
	<b>Science Technicians</b>
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)
	<b>Technicians, Except Health, Engineering, and Science</b>
226	Airplane pilots and navigators (825)
227	Air traffic controllers (392)
228	Broadcast equipment operators (393)
229	Computer programmers (3971, 3972)
233	Tool programmers, numerical control (3974)
234	Legal assistants (396)
235	Technicians, n.e.c. (399)
	<b>SALES OCCUPATIONS</b>
243	<b>Supervisors and Proprietors, Sales Occupations (40)</b>
	<b>Sales Representatives, Finance and Business Services</b>
253	Insurance sales occupations (4122)
254	Real estate sales occupations (4123)
255	Securities and financial services sales occupations (4124)
256	Advertising and related sales occupations (4153)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>SALES OCCUPATIONS, Sales Representatives, Finance and Business Services, cont.</b>
257	Sales occupations, other business services (4152)
	<b>Sales Representatives, Commodities, Except Retail</b>
258	Sales engineers (421)
259	Sales representatives, mining, manufacturing, and wholesale (423, 424)
	<b>Sales Workers, Retail and Personal Services</b>
263	Sales workers, motor vehicles and boats (4342, 4344)
264	Sales workers, apparel (4346)
265	Sales workers, shoes (4351)
266	Sales workers, furniture and home furnishings (4348)
267	Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)
268	Sales workers, hardware and building supplies (4353)
269	Sales workers, parts (4367)
274	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
275	Sales counter clerks (4363)
276	Cashiers (4364)
277	Street and door-to-door sales workers (4366)
278	News vendors (4365)
	<b>Sales Related Occupations</b>
283	Demonstrators, promoters and models, sales (445)
284	Auctioneers (447)
285	Sales support occupations, n.e.c. (444, 446, 449)
	<b>ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL</b>
	<b>Supervisors, Administrative Support Occupations</b>
303	Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304	Supervisors, computer equipment operators (4512)
305	Supervisors, financial records processing (4521)
306	Chief communications operators (4523)
307	Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)
	<b>Computer Equipment Operators</b>
308	Computer operators (4612)
309	Peripheral equipment operators (4613)
	<b>Secretaries, Stenographers, and Typists</b>
313	Secretaries (4622)
314	Stenographers (4623)
315	Typists (4624)
	<b>Information Clerks</b>
316	Interviewers (4642)

1990 Occupation Code	Occupation Category
	<b>ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL, Information Clerks, cont.</b>
318	Transportation ticket and reservation agents (4644)
319	Receptionists (4645)
323	Information clerks, n.e.c. (4649)
	<b>Records Processing Occupations, Except Financial</b>
325	Classified-ad clerks (4662)
326	Correspondence clerks (4663)
327	Order clerks (4664)
328	Personnel clerks, except payroll and timekeeping (4692)
329	Library clerks (4694)
335	File clerks (4696)
336	Records clerks (4699)
	<b>Financial Records Processing Occupations</b>
337	Bookkeepers, accounting, and auditing clerks (4712)
338	Payroll and timekeeping clerks (4713)
339	Billing clerks (4715)
343	Cost and rate clerks (4716)
344	Billing, posting, and calculating machine operators (4718)
	<b>Duplicating, Mail and Other Office Machine Operators</b>
345	Duplicating machine operators (4722)
346	Mail preparing and paper handling machine operators (4723)
347	Office machine operators, n.e.c. (4729)
	<b>Communications Equipment Operators</b>
348	Telephone operators (4732)
353	Communications equipment operators, n.e.c. (4733, 4739)
	<b>Mail and Message Distributing Occupations</b>
354	Postal clerks, except mail carriers (4742)
355	Mail carriers, postal service (4743)
356	Mail clerks, except postal service (4744)
357	Messengers (4745)
	<b>Material Recording, Scheduling, and Distributing Clerks</b>
359	Dispatchers (4751)
363	Production coordinators (4752)
364	Traffic, shipping, and receiving clerks (4753)
365	Stock and inventory clerks (4754)
366	Meter readers (4755)
368	Weighers, measurers, checkers, and samplers (4756, 4757)
373	Expeditors (4758)
374	Material recording, scheduling, and distributing clerks, n.e.c. (4759)

1990 Occupation Code	Occupation Category
	<b>ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL, cont.</b>
	<b>Adjusters and Investigators</b>
375	Insurance adjusters, examiners, and investigators (4782)
376	Investigators and adjusters, except insurance (4783)
377	Eligibility clerks, social welfare (4784)
378	Bill and account collectors (4786)
	<b>Miscellaneous Administrative Support Occupations</b>
379	General office clerks (463)
383	Bank tellers (4791)
384	Proofreaders (4792)
385	Data-entry keyers (4793)
386	Statistical clerks (4794)
387	Teachers' aides (4795)
389	Administrative support occupations, n.e.c. (4787, 4799)
	<b>SERVICE OCCUPATIONS</b>
	<b>PRIVATE HOUSEHOLD OCCUPATIONS</b>
403	Launderers and ironers (503)
404	Cooks, private household (504)
405	Housekeepers and butlers (505)
406	Child care workers, private household (506)
407	Private household cleaners and servants (502, 507, 509)
	<b>PROTECTIVE SERVICE OCCUPATIONS</b>
	<b>Supervisors, Protective Service Occupations</b>
413	Supervisors, firefighting and fire prevention occupations (5111)
414	Supervisors, police and detectives (5112)
415	Supervisors, guards (5113)
	<b>Firefighting and Fire Prevention Occupations</b>
416	Fire inspection and fire prevention occupations (5122)
417	Firefighting occupations (5123)
	<b>Police and Detectives</b>
418	Police and detectives, public service (5132)
423	Sheriffs, bailiffs, and other law enforcement officers (5134)
424	Correctional institution officers (5133)
	<b>Guards</b>
425	Crossing guards (5142)
426	Guards and police, except public service (5144)
427	Protective service occupations, n.e.c. (5149)
	<b>SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD</b>
	<b>Food Preparation and Service Occupations</b>
433	Supervisors, food preparation and service occupations (5211)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD, Food Preparation and Service Occupations, cont.</b>
434	Bartenders (5212)
435	Waiters and waitresses (5213)
436	Cooks (5214, 5215)
438	Food counter, fountain and related occupations (5216)
439	Kitchen workers, food preparation (5217)
443	Waiters'/waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
	<b>Health Service Occupations</b>
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
	<b>Cleaning and Building Service Occupations, Except Household</b>
448	Supervisors, cleaning and building service workers (5241)
449	Maids and housemen (5242, 5249)
453	Janitors and cleaners (5244)
454	Elevator operators (5245)
455	Pest control occupations (5246)
	<b>Personal Service Occupations</b>
456	Supervisors, personal service occupations (5251)
457	Barbers (5252)
458	Hairdressers and cosmetologists (5253)
459	Attendants, amusement and recreation facilities (5254)
461	Guides (5255)
462	Ushers (5256)
463	Public transportation attendants (5257)
464	Baggage porters and bellhops (5262)
465	Welfare service aides (5263)
466	Family child care providers (part 5264)
467	Early childhood teacher's assistants (part 5264)
468	Child care workers, n.e.c. (part 5264)
469	Personal service occupations, n.e.c. (5258, 5269)
	<b>FARMING, FORESTRY, AND FISHING OCCUPATIONS</b>
	<b>Farm Operators and Managers</b>
473	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)

1990 Occupation Code	Occupation Category
	<b>FARMING, FORESTRY, AND FISHING OCCUPATIONS, cont.</b>
	<b>Other Agricultural and Related Occupations</b>
	<b>Farm Occupations, Except Managerial</b>
477	Supervisors, farm workers (5611)
479	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
	<b>Related Agricultural Occupations</b>
485	Supervisors, related agricultural occupations (5621)
486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489	Inspectors, agricultural products (5627)
	<b>Forestry and Logging Occupations</b>
494	Supervisors, forestry and logging workers (571)
495	Forestry workers, except logging (572)
496	Timber cutting and logging occupations (573, 579)
	<b>Fishers, Hunters, and Trappers</b>
497	Captains and other officers, fishing vessels (part 8241)
498	Fishers (583)
499	Hunters and trappers (584)
	<b>PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS</b>
	<b>Mechanics and Repairers</b>
503	Supervisors, mechanics and repairers (60)
	<b>Mechanics and Repairers, Except Supervisors</b>
	<b>Vehicle and Mobile Equipment Mechanics and Repairers</b>
505	Automobile mechanics (part 6111)
506	Automobile mechanic apprentices (part 6111)
507	Bus, truck, and stationary engine mechanics (6112)
508	Aircraft engine mechanics (6113)
509	Small engine repairers (6114)
514	Automobile body and related repairers (6115)
515	Aircraft mechanics, except engine (6116)
516	Heavy equipment mechanics (6117)
517	Farm equipment mechanics (6118)
518	Industrial machinery repairers (613)
519	Machinery maintenance occupations (614)
	<b>Electrical and Electronic Equipment Repairers</b>
523	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525	Data processing equipment repairers (6154)



1990 Occupation Code	Occupation Category
	<b>PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS, Electrical and Electronic Equipment Repairers, cont.</b>
527	Telephone line installers and repairers (6157)
529	Telephone installers and repairers (6158)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)
534	Heating, air conditioning, and refrigeration mechanics (616)
	<b>Miscellaneous Mechanics and Repairers</b>
535	Camera, watch, and musical instrument repairers (6171, 6172)
536	Locksmiths and safe repairers (6173)
538	Office machine repairers (6174)
539	Mechanical controls and valve repairers (6175)
543	Elevator installers and repairers (6176)
544	Millwrights (6178)
547	Specified mechanics and repairers, n.e.c. (6177, 6179)
549	Not specified mechanics and repairers
	<b>Construction Trades</b>
	<b>Supervisors, Construction Occupations</b>
553	Supervisors, brickmasons, stonemasons, and tile setters (6312)
554	Supervisors, carpenters and related workers (6313)
555	Supervisors, electricians and power transmission installers (6314)
556	Supervisors, painters, paperhangers, and plasterers (6315)
557	Supervisors, plumbers, pipefitters, and steamfitters (6316)
558	Supervisors, construction, n.e.c. (6311, 6318)
	<b>Construction Trades, Except Supervisors</b>
563	Brickmasons and stonemasons (part 6412, part 6413)
564	Brickmason and stonemason apprentices (part 6412, part 6413)
565	Tile setters, hard and soft (part 6414, part 6462)
566	Carpet installers (part 6462)
567	Carpenters (part 6422)
569	Carpenter apprentices (part 6422)
573	Drywall installers (6424)
575	Electricians (part 6432)
576	Electrician apprentices (part 6432)
577	Electrical power installers and repairers (6433)
579	Painters, construction and maintenance (6442)
583	Paperhangers (6443)
584	Plasterers (6444)
585	Plumbers, pipefitters, and steamfitters (part 645)
587	Plumber, pipefitter, and steamfitter apprentices (part 645)
588	Concrete and terrazzo finishers (6463)

1990 Occupation Code	Occupation Category
	<b>PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS, Construction Trades, Except Supervisors, cont.</b>
589	Glaziers (6464)
593	Insulation workers (6465)
594	Paving, surfacing, and tamping equipment operators (6466)
595	Roofers (6468)
596	Sheetmetal duct installers (6472)
597	Structural metal workers (6473)
598	Drillers, earth (6474)
599	Construction trades, n.e.c. (6467, 6475, 6476, 6479)
	<b>Extractive Occupations</b>
613	Supervisors, extractive occupations (632)
614	Drillers, oil well (652)
615	Explosives workers (653)
616	Mining machine operators (654)
617	Mining occupations, n.e.c. (656)
	<b>Precision Production Occupations</b>
628	Supervisors, production occupations (67, 71)
	<b>Precision Metal Working Occupations</b>
634	Tool and die makers (part 6811)
635	Tool and die maker apprentices (part 6811)
636	Precision assemblers, metal (6812)
637	Machinists (part 6813)
639	Machinist apprentices (part 6813)
643	Boilermakers (6814)
644	Precision grinders, filers, and tool sharpeners (6816)
645	Patternmakers and model makers, metal (6817)
646	Lay-out workers (6821)
647	Precious stones and metals workers (Jewelers) (6822, 6866)
649	Engravers, metal (6823)
653	Sheet metal workers (part 6824)
654	Sheet metal worker apprentices (part 6824)
655	Miscellaneous precision metal workers (6829)
	<b>Precision Woodworking Occupations</b>
656	Patternmakers and model makers, wood (6831)
657	Cabinet makers and bench carpenters (6832)
658	Furniture and wood finishers (6835)
659	Miscellaneous precision woodworkers (6839)
	<b>Precision Textile, Apparel, and Furnishings Machine Workers</b>
666	Dressmakers (part 6852, part 7752)
667	Tailors (part 6852)

1990 Occupation Code	Occupation Category
	<b>PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS, Precision Textile, Apparel, and Furnishings Machine Workers, cont.</b>
668	Upholsterers (6853)
669	Shoe repairers (6854)
674	Miscellaneous precision apparel and fabric workers (6856, 6859, part 7752)
	<b>Precision Workers, Assorted Materials</b>
675	Hand molders and shapers, except jewelers (6861)
676	Patternmakers, lay-out workers, and cutters (6862)
677	Optical goods workers (6864, part 7477, part 7677)
678	Dental laboratory and medical appliance technicians (6865)
679	Bookbinders (6844)
683	Electrical and electronic equipment assemblers (6867)
684	Miscellaneous precision workers, n.e.c. (6869)
	<b>Precision Food Production Occupations</b>
686	Butchers and meat cutters (6871)
687	Bakers (6872)
688	Food batchmakers (6873, 6879)
	<b>Precision Inspectors, Testers, and Related Workers</b>
689	Inspectors, testers, and graders (6881, 828)
693	Adjusters and calibrators (6882)
	<b>Plant and System Operators</b>
694	Water and sewage treatment plant operators (691)
695	Power plant operators (part 693)
696	Stationary engineers (part 693, 7668)
699	Miscellaneous plant and system operators (692, 694, 695, 696)
	<b>OPERATORS, FABRICATORS, AND LABORERS</b>
	<b>MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS</b>
	<b>Machine Operators and Tenders, Except Precision Metal Working and Plastic Working Machine Operators</b>
703	Lathe and turning machine set-up operators (7312)
704	Lathe and turning machine operators (7512)
705	Milling and planing machine operators (7313, 7513)
706	Punching and stamping press machine operators (7314, 7317, 7514, 7517)
707	Rolling machine operators (7316, 7516)
708	Drilling and boring machine operators (7318, 7518)
709	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713	Forging machine operators (7319, 7519)
714	Numerical control machine operators (7326)
715	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)

1990 Occupation Code	Occupation Category
	<b>MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS, Metal Working and Plastic Working Machine Operators, cont.</b>
717	Fabricating machine operators, n.e.c. (7339, 7539)
	<b>Metal and Plastic Processing Machine Operators</b>
719	Molding and casting machine operators (7315, 7342, 7515, 7542)
723	Metal plating machine operators (7343, 7543)
724	Heat treating equipment operators (7344, 7544)
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)
	<b>Woodworking Machine Operators</b>
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
727	Sawing machine operators (7433, 7633)
728	Shaping and joining machine operators (7435, 7635)
729	Nailing and tacking machine operators (7636)
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
	<b>Printing Machine Operators</b>
734	Printing press operators (7443, 7643)
735	Photoengravers and lithographers (6842, 7444, 7644)
736	Typesetters and compositors (6841, 7642)
737	Miscellaneous printing machine operators (6849, 7449, 7649)
	<b>Textile, Apparel, and Furnishings Machine Operators</b>
738	Winding and twisting machine operators (7451, 7651)
739	Knitting, looping, taping, and weaving machine operators (7452, 7652)
743	Textile cutting machine operators (7654)
744	Textile sewing machine operators (7655)
745	Shoe machine operators (7656)
747	Pressing machine operators (7657)
748	Laundering and dry cleaning machine operators (6855, 7658)
749	Miscellaneous textile machine operators (7459, 7659)
	<b>Machine Operators, Assorted Materials</b>
753	Cementing and gluing machine operators (7661)
754	Packaging and filling machine operators (7462, 7662)
755	Extruding and forming machine operators (7463, 7663)
756	Mixing and blending machine operators (7664)
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
758	Compressing and compacting machine operators (7467, 7667)
759	Painting and paint spraying machine operators (7669)
763	Roasting and baking machine operators, food (7472, 7672)
764	Washing, cleaning, and pickling machine operators (7673)
765	Folding machine operators (7474, 7674)

1990 Occupation Code	Occupation Category
	<b>MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS, Machine Operators, Assorted Materials, cont.</b>
766	Furnace, kiln, and oven operators, except food (7675)
768	Crushing and grinding machine operators (part 7477, part 7677)
769	Slicing and cutting machine operators (7478, 7678)
773	Motion picture projectionists (part 7479)
774	Photographic process machine operators (6863, 6868, 7671)
777	Miscellaneous machine operators, n.e.c. (part 7479, 7665, 7679)
779	Machine operators, not specified
	<b>Fabricators, Assemblers, and Hand Working Occupations</b>
783	Welders and cutters (7332, 7532, 7714)
784	Solderers and brazers (7333, 7533, 7717)
785	Assemblers (772, 774)
786	Hand cutting and trimming occupations (7753)
787	Hand molding, casting, and forming occupations (7754, 7755)
789	Hand painting, coating, and decorating occupations (7756)
793	Hand engraving and printing occupations (7757)
795	Miscellaneous hand working occupations (7758, 7759)
	<b>Production Inspectors, Testers, Samplers, and Weighers</b>
796	Production inspectors, checkers, and examiners (782, 787)
797	Production testers (783)
798	Production samplers and weighers (784)
799	Graders and sorters, except agricultural (785)
	<b>TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS</b>
	<b>Motor Vehicle Operators</b>
803	Supervisors, motor vehicle operators (8111)
804	Truck drivers (8212-8214)
806	Driver-sales workers (8218)
808	Bus drivers (8215)
809	Taxicab drivers and chauffeurs (8216)
813	Parking lot attendants (874)
814	Motor transportation occupations, n.e.c. (8219)
	<b>Transportation Occupations, Except Motor Vehicles</b>
	<b>Rail Transportation Occupations</b>
823	Railroad conductors and yardmasters (8113)
824	Locomotive operating occupations (8232)
825	Railroad brake, signal, and switch operators (8233)
826	Rail vehicle operators, n.e.c. (8239)
	<b>Water Transportation Occupations</b>
828	Ship captains and mates, except fishing boats (part 8241, 8242)
829	Sailors and deckhands (8243)

NLMS PUMS – Appendix D: 1990 Occupational Classification System

1990 Occupation Code	Occupation Category
	<b>TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS, Water Transportation Occupations, cont.</b>
833	Marine engineers (8244)
834	Bridge, lock, and lighthouse tenders (8245)
	<b>Material Moving Equipment Operators</b>
843	Supervisors, material moving equipment operators (812)
844	Operating engineers (8312)
845	Longshore equipment operators (8313)
848	Hoist and winch operators (8314)
849	Crane and tower operators (8315)
853	Excavating and loading machine operators (8316)
855	Grader, dozer, and scraper operators (8317)
856	Industrial truck and tractor equipment operators (8318)
859	Miscellaneous material moving equipment operators (8319)
	<b>HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS</b>
864	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
865	Helpers, mechanics, and repairers (863)
	<b>Helpers, Construction, and Extractive Occupations</b>
866	Helpers, construction trades (8641-8645, 8648)
867	Helpers, surveyor (8646)
868	Helpers, extractive occupations (865)
869	Construction laborers (871)
874	Production helpers (861, 862)
	<b>Freight, Stock, and Material Handlers</b>
875	Garbage collectors (8722)
876	Stevedores (8723)
877	Stock handlers and baggers (8724)
878	Machine feeders and offbearers (8725)
883	Freight, stock, and material handlers, n.e.c. (8726)
885	Garage and service station related occupations (873)
887	Vehicle washers and equipment cleaners (875)
888	Hand packers and packagers (8761)
889	Laborers, except construction (8769)
905	Assigned to persons whose current labor force status is unemployed and whose last job was Armed Forces

**Appendix E**  
**NCHS 113 CAUSES OF DEATH FROM ICD-10**

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In 1992 the CDC's National Center for Health Statistics published a standardized list of 113 selected causes of death, for the general analysis of ICD-9 or ICD-10 mortality statistics and for ranking leading causes of death.      Source:

[www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49\\_11.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_11.pdf)

- 1 Salmonella infections
- 2 Shigellosis and amebiasis
- 3 Certain other intestinal infections
- 4 Respiratory tuberculosis
- 5 Other tuberculosis
- 6 Whooping cough
- 7 Scarlet fever and erysipelas
- 8 Meningococcal infection
- 9 Septicemia
- 10 Syphilis
- 11 Acute poliomyelitis
- 12 Arthropod-borne viral encephalitis
- 13 Measles
- 14 Viral hepatitis
- 15 Human immunodeficiency virus (HIV) disease
- 16 Malaria
- 17 Other and unspecified infectious and parasitic diseases and their sequelae
- 18 Malignant neoplasms of lip, oral cavity and pharynx
- 19 Malignant neoplasm of esophagus
- 20 Malignant neoplasm of stomach
- 21 Malignant neoplasms of colon, rectum and anus
- 22 Malignant neoplasms of liver and intrahepatic bile ducts
- 23 Malignant neoplasm of pancreas
- 24 Malignant neoplasm of larynx
- 25 Malignant neoplasms of trachea, bronchus and lung
- 26 Malignant melanoma of skin
- 27 Malignant neoplasm of breast
- 28 Malignant neoplasm of cervix uteri
- 29 Malignant neoplasms of corpus uteri and uterus, part unspecified
- 30 Malignant neoplasm of ovary
- 31 Malignant neoplasm of prostate
- 32 Malignant neoplasms of kidney and renal pelvis
- 33 Malignant neoplasm of bladder
- 34 Malignant neoplasms of meninges, brain and other parts of central nervous system
- 35 Hodgkin's disease

NLMS PUMS – Appendix E: 113 Causes of Death from ICD-10

- 36 Non-Hodgkin's lymphoma
- 37 Leukemia
- 38 Multiple myeloma and immunoproliferative neoplasms
- 39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue
- 40 All other and unspecified malignant neoplasms
- 41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior
- 42 Anemias
- 43 Diabetes mellitus
- 44 Malnutrition
- 45 Other nutritional deficiencies
- 46 Meningitis
- 47 Parkinson's disease
- 48 Alzheimer's disease
- 49 Acute rheumatic fever and chronic rheumatic heart diseases
- 50 Hypertensive heart disease
- 51 Hypertensive heart and renal disease
- 52 Acute myocardial infarction
- 53 Other acute ischemic heart diseases
- 54 Atherosclerotic cardiovascular disease, so described
- 55 All other forms of chronic ischemic heart disease
- 56 Acute and subacute endocarditis
- 57 Diseases of pericardium and acute myocarditis
- 58 Heart failure
- 59 All other forms of heart disease
- 60 Essential (primary) hypertension and hypertensive renal disease
- 61 Cerebrovascular diseases
- 62 Atherosclerosis
- 63 Aortic aneurysm and dissection
- 64 Other diseases of arteries, arterioles and capillaries
- 65 Other disorders of circulatory system
- 66 Influenza
- 67 Pneumonia
- 68 Acute bronchitis and bronchiolitis
- 69 Unspecified acute lower respiratory infection
- 70 Bronchitis, chronic and unspecified
- 71 Emphysema
- 72 Asthma
- 73 Other chronic lower respiratory diseases
- 74 Pneumoconioses and chemical effects
- 75 Pneumonitis due to solids and liquids
- 76 Other diseases of respiratory system
- 77 Peptic ulcer



NLMS PUMS – Appendix E: 113 Causes of Death from ICD-10

- 78 Diseases of appendix
- 79 Hernia
- 80 Alcoholic liver disease
- 81 Other chronic liver disease and cirrhosis
- 82 Cholelithiasis and other disorders of gallbladder
- 83 Acute and rapidly progressive nephritic and nephrotic syndrome
- 84 Chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and renal sclerosis unspecified
- 85 Renal failure
- 86 Other disorders of kidney
- 87 Infections of kidney
- 88 Hyperplasia of prostate
- 89 Inflammatory diseases of female pelvic organs
- 90 Pregnancy with abortive outcome
- 91 Other complications of pregnancy, childbirth and the puerperium
- 92 Certain conditions originating in the perinatal period
- 93 Congenital malformations, deformations and chromosomal abnormalities
- 94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified
- 95 All other diseases (Residual)
- 96 Motor vehicle crash
- 97 Unintentional injury: Other land transport
- 98 Unintentional injury: Water, air and space, and other transport
- 99 Falls
- 100 Accidental discharge of firearms
- 101 Accidental drowning and submersion
- 102 Accidental exposure to smoke, fire and flames
- 103 Accidental poisoning and exposure to noxious substances
- 104 Other and unspecified nontransport accidents and their sequelae
- 105 Intentional self-harm (suicide) by discharge of firearms
- 106 Intentional self-harm (suicide) by other and unspecified means and their sequelae
- 107 Assault (homicide) by discharge of firearms
- 108 Assault (homicide) by other and unspecified means and their sequelae
- 109 Legal intervention
- 110 Discharge of firearms, undetermined intent
- 111 Other and unspecified events of undetermined intent and their sequelae
- 112 Operations of war and their sequelae
- 113 Complications of medical and surgical care