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# **Compressed Mortality File**

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**1999-2008**

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**CD-ROM Series 20**

**No. 2N**

**ASCII Version**

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**Department of Health and Human Services  
Centers for Disease Control and Prevention  
National Center for Health Statistics**

# TABLE OF CONTENTS

<b>I.</b>	<b>Introduction</b> .....	4
<b>II.</b>	<b>Data Use Agreement</b> .....	5
<b>III.</b>	<b>Guidelines for Citation of Data</b> .....	7
<b>IV</b>	<b>New in the CMF</b> .....	8
<b>V.</b>	<b>Description of the Mortality File</b> .....	9
	<b>Table 1.</b> Number of deaths by race and sex: United States, 1999-2008: .....	15
	<b>Table 2.</b> Number of deaths by Hispanic origin and sex: United States, 1999-2008: .....	16
<b>VI.</b>	<b>Description of the Population File</b> .....	17
	<b>Table 3.</b> Source of population data for 1999-2008, by year and type of estimate.....	19
	<b>Table 4.</b> Number of live births by race, Hispanic origin, sex, and year: United States, 1999-2008 .....	25
	<b>Table 5.</b> Estimated resident population by race, sex, year and type of estimate: United States, 1999-2008 .....	27
	<b>Table 6.</b> Estimated resident population by Hispanic origin, sex, year, and type of estimate: United States, 1999-2008 .....	29
	<b>Table 7.</b> Estimated resident population of each State and the District of Columbia by year: United States, 1999-2008 .....	31
	<b>Appendix A. ICD-10 113 Selected Causes of Death List</b> .....	33
	<b>Table 8.</b> Tenth Revision 113 selected causes of death list, adapted by NCHS.....	33
	<b>Appendix B. Comparability between ICD-9 and ICD-10 for Mortality</b> .....	38
	<b>Table 9.</b> Comparable category codes and estimated comparability ratios for 113 selected causes of death, injury by firearm, drug-induced, deaths, and alcohol-induced deaths .....	39
	<b>Appendix C. Computation of Rates</b> .....	45
	<b>Table 10.</b> United States standard population, numbers and proportions: 2000 .....	47
	<b>Appendix D. More about Population Estimates</b> .....	48
	<b>Appendix E. State and County FIPS Codes and Names</b> .....	54

<b>Table 11.</b> Summary of changes to counties and county equivalents on the CMF: 1979-2008 .....	55
<b>Table 12.</b> Virginia independent cities on this file and county in which each is located.....	61
<b>Appendix F. Dictionary of State and County FIPS Codes and Names.....</b>	<b>62</b>
<b>References .....</b>	<b>105</b>

## I. Introduction

The Compressed Mortality File (CMF) is composed of a county-level national mortality file and a county-level national population file. Currently, the CMF spans the years 1968-2008 and is divided into four parts: 1968-78, 1979-88, 1989-98, and 1999-2008. The first two parts are public use files and are available on a CD-ROM (CMF 1968-88 Series 20 No. 2A). The other two parts are made available to researchers on CD-ROMs under Part II Use Agreements (CMF 1989-98 Series 20 No. 2E and CMF 1999-2008 Series 20 No. 2N). The CMF is a relatively compact file as it contains only a select set of analysis variables. The mortality file contains the variables: 1) State and county of residence, 2) year of death (rather than the full date of death), 3) race (for 1968-98: White, Black, and other races; for 1999-2008: White, Black, American Indian or Alaska Native, and Asian or Pacific Islander), 4) sex, 5) Hispanic origin (for 1999-2008 only), 6) age group at death, 7) underlying cause-of-death (4-digit ICD code), and 8) cause-of-death recode. The population file has national, state, and county population estimates from the Census Bureau. The age, race, sex, and Hispanic origin detail of the population file matches that of the mortality file.

Confidentiality restrictions apply to the mortality and live birth data on the CMF 1989-98 and CMF 1999-2008. Details of these restrictions are given in Section II. All users of these files must sign an NCHS Data Use and Reporting Agreement and abide by its terms.

## II. Data Use and Reporting Agreement

Vital statistics data are provided to NCHS by vital statistics jurisdictions with the understanding that the data are protected under the provisions of the Public Health Services Act (42 U.S.C. 242m(d)), and that any file released under a data use agreement requires both NAPHSIS and NCHS review and approval of proposed use.

The Public Health Service Act (42 U.S.C. 242m(d)) provides that the data collected by the National Center for Health Statistics (NCHS) may be used only for the purpose for which they were obtained; any effort to determine the identity of any reported cases, or to use the information for any purpose other than for health statistical reporting and analysis, would violate this statutory restriction and the conditions of this data use agreement. NCHS does all it can to assure that the identity of data subjects cannot be disclosed; all direct identifiers, as well as characteristics that might lead to identification, are omitted from the data file. Nevertheless it may be possible in rare instances, through complex analysis and with outside information to ascertain from the data file the identity of particular persons or establishments. Considerable harm could ensue if this were done.

Therefore, the undersigned gives the following assurances with respect to the Compressed Mortality File:

- I will not use nor permit others to use the data in the Compressed Mortality File in any way except for statistical reporting and analysis and for the purposes described in the data request.
- I will not release nor permit others to release the Compressed Mortality File or any part of it to any person who is not a member of this organization, except with the approval of NCHS. Under Section 308(d) of the Public Health Service Act, the only persons to be allowed access to these data files will be staff members of this organization, or its contractor(s) who have been authorized to work with the data and have, prior to being granted access to the data, read and signed this DUA in the space provided below and have forwarded it to NCHS.
- I will not attempt to link nor permit others to attempt to link the Compressed Mortality File with individually identifiable records from any other NCHS or non-NCHS data file.
- I will not attempt to use the data files nor permit others to use them to learn the identity of any person included in the file.
- If I should inadvertently discover the identity of any person on the file, then (a) I will make no use of the knowledge, (b) I will immediately advise the Director of the Division of Vital Statistics of the incident, (c) I will safeguard or destroy the information that would identify the individual, as requested by NCHS, and (d) I will inform no one else of the discovered identity.
- All persons having access to the Compressed Mortality File will follow the file security measures approved by NCHS.

In addition, I will make every effort to ensure that all statistical information is released in such a way as to avoid inadvertent disclosure. For example:

- Tabulations for sub-national geographic areas should not include any figures, including totals, that are less than 10 or any figures, such as death rates, that are based on fewer than 10 events. Further, no such figures should be derivable through subtraction or other calculation from the combination of cells in a table or from the combination of tables in a given publication.
- No data on an identifiable case should be derivable through subtraction or other calculation from the combination of the tables in a given publication.
- No data should permit disclosure when used in combination with other known data.

I will secure identical written assurances from every individual within this organization who will have access to these data files.

My signature below indicates my agreement to comply with the above-stated statutorily-based requirements with the knowledge that deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal Government violates 18 USC 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison.

Further conditions for data use:

NAPHSIS and NCHS have reviewed and approved the use of the data provided under this agreement for purposes described in the requestor's application for one year from the date of receipt of the data. The data files listed under "Requested Data Files" above are the property of the National Center for Health Statistics (NCHS), Office of Analysis and Epidemiology (OAE). Permission is granted to use these data files for one year from the date of receipt. At the expiration of the one year period, the Compressed Mortality File CD-ROMs must be returned to OAE and any copies of the data files must be destroyed. Users must notify OAE in writing that the file(s) have been destroyed. This policy will be strictly enforced; however, extension of this usage period will be given consideration under appropriate circumstances, when requested in writing.

Citation of NCHS:

Users of these data are asked to acknowledge NCHS and the vital statistics jurisdictions as the data source in published reports and studies for which the files were used. NCHS and the vital statistics jurisdictions should also be cited in reports, articles, and news releases in electronic and print media describing the studies or results of the studies. The recommended citation is provided in "Section III. Guidelines for Citation of Data".

### **III. Guidelines for Citation of Data**

With the goal of mutual benefit, the National Center for Health Statistics (NCHS) requests that recipients of data files cooperate in certain actions related to their use. Any published material derived from the data should acknowledge NCHS as the original source.

The suggested citation to appear at the bottom of all tables is as follows:

Source: National Center for Health Statistics (Compressed Mortality File 1999-2008)

When cited in a bibliography, the citation should read:

National Center for Health Statistics. Compressed Mortality File, 1999-2008 (machine readable data file and documentation, CD-ROM Series 20, No. 2N) as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Hyattsville, Maryland. 2010.

The published material should also include a disclaimer that credits any analyses, interpretations, or conclusions reached to the author (recipient of the data file) and not to NCHS, which is responsible only for the initial data. Consumers who wish to publish a technical description of the data should make an effort to insure that the description is not inconsistent with that published by NCHS.

#### **IV. New in the CMF 1999-2008**

The following changes have been implemented for the 1999-2008 Compressed Mortality File (CMF 1999-2008, CD-ROM Series 20, No. 2N):

1. More restrictive suppression criteria apply to death counts and death rates. No sub-national death counts less than 10 or death rates based on fewer than 10 deaths may be published or be derivable from other published counts or rates. See the revised Data Use Agreement for details.
2. Mortality and population data for 2008 have been added to the file.
3. The State and county population estimates for 2001-2008 on this file are derived from the Vintage 2009 bridged-race postcensal series. On the previous file, CMF 1999-2008 Series 20 No. 2N, the State and county population estimates for 2001-2008 were from the Vintage 2008 bridged-race postcensal series. The Vintage 2008 postcensal population estimates were produced after implementation of methodologic changes by the Census Bureau.

## V. Description of the Mortality File

Mortality data on the CMF are based on information from all death certificates filed in the 50 States and the District of Columbia during 1999-2008, excluding deaths of nonresidents (e.g. deaths of nonresident aliens, nationals residing abroad, and residents of Puerto Rico, the Virgin Islands, Guam, and other territories of the United States) and fetal deaths (1-10). Mortality data from the death certificates are coded by the States and provided to NCHS through the Vital Statistics Cooperative Program or coded by NCHS from copies of the original death certificates provided to NCHS by the State registration offices. Descriptions of the vital statistics reporting system maintained by NCHS and of the technical details of the mortality data are available in the Technical Notes in the annual National Vital Statistics Reports *Deaths: Final Data* (1-11). Control totals are provided in Tables 1 and 2.

Only a select set of variables are extracted from the death records for inclusion on the CMF mortality record: 1) State and county of residence, 2) year of death (rather than the full date of death), 3) race (White, Black, American Indian or Alaska Native, Asian or Pacific Islander), 4) sex, 5) Hispanic origin (not Hispanic or Latino, Hispanic or Latino, unknown), 6) age group at death, 7) underlying cause-of-death (4-digit ICD-10 code), and 8) 113 ICD-10 cause-of-death recode. Including only these eight variables on the file and recoding some of them into a limited number of categories results in numerous records having identical values on all of the variables. Aggregating the records with identical values on all of the variables into one record and adding a count to that record indicating the number of records that have been aggregated substantially reduces the number of records on the file. For example, 28 white male residents of Baldwin County, AL with ages between 65 and 74 years, died from ICD-10 underlying cause C34.9 in 1999. Their records were combined into one, with the value 28 in the count field. Note that if no deaths occurred for a particular combination of variable values, no record appears in the CMF.

### Specific details

1. Confidentiality restrictions apply to the mortality data. See Section II for details.
2. Cause-of-death on the CMF is the underlying cause-of-death, which is defined by WHO as “the disease or injury which initiated the train of events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury” (12). When more than one cause or condition is listed on the death certificate, the underlying cause is determined by the sequence of conditions and associated selection rules. For 1999-2008, underlying cause-of-death is classified in accordance with the current revision of the *International Statistical Classification of Disease and Related Health Problems, Tenth Revision* (ICD-10) (12). Additional information is available from: <http://www.cdc.gov/nchs/icd.htm>. For earlier years, causes of death were classified according to the revisions then in use. Changes in classification of causes of death due to the ICD revisions result in discontinuities in cause-of-death trends. Comparability ratios are available for selected causes of death (13). For additional information see Appendix B.

3. Race and Hispanic origin are reported separately on the death certificate in accordance with standards set forth by the Office of Management and Budget (OMB) (14, 15). The American Indian or Alaska Native race category includes: North, Central, and South American Indians, Eskimos, and Aleuts. The Asian or Pacific Islander race category includes Chinese, Filipino, Hawaiian, Japanese, and Other Asian or Pacific Islanders.

4. **Missing Hispanic origin data.** Hispanic origin was not reported on the death certificate for some deaths. On the mortality file, missing Hispanic origin information is coded as “not stated”. There is no corresponding population figure for this group. Therefore, it is recommended that these records be excluded when death rates are calculated by Hispanic origin.

5. **Race data and the transition from 1989 to 2003 revised Certificate of Death.** The 2003 revision of the U.S. Standard Certificate of Death collects race data in accordance with the Office of Management and Budget’s (OMB) 1997 standards for the collection of race data by federal agencies (15). The 2003 certificate allows the reporting of more than one race (multiple races) and establishes a minimum set of five races to be reported (white, black or African American, American Indian or Alaska Native (AIAN), Asian, and Native Hawaiian or Other Pacific Islander (NHOPI)) (17). The 1989 revision of the U.S. Standard Certificate of Death collected race data in accordance with the 1977 OMB standards; only a single race could be reported and four (rather than five) single-race groups were used (white, black, AIAN, and Asian or other Pacific Islander (API)) (16). In 2003 and 2004, multiple races could also be reported on the unrevised certificates of Hawaii, Maine, and Wisconsin.

Beginning with the 2003 data year, some States began using the 2003 revised death certificate (5-10, 17). Each year since 2003, additional States have implemented the 2003 revised certificate. In order to provide uniformity and comparability of mortality data during the transition from the 1989 certificate to the 2003 certificate (before all or most of the data are available in the new multiple-race format), it is necessary to “bridge” the responses of those for whom more than one race is reported (multiple race) to one of the single-race categories. The bridging procedure is similar to the procedure used to bridge multiple-race population estimates (18). Multiple-race decedents are imputed to a single race (either White, Black, AIAN, or API) according to their combination of races, Hispanic origin, sex, and age indicated on the death certificate. The imputation procedure is described in detail at

[http://www.cdc.gov/nchs/data/dvs/Multiple\\_race\\_documentation\\_5-10-04.pdf](http://www.cdc.gov/nchs/data/dvs/Multiple_race_documentation_5-10-04.pdf).

During 1999-2002, all 50 States and the District of Columbia collected death data based on the 1989 revision of the U.S. Standard Certificate of Death (1-4, 10, 16).

In 2003, multiple race was reported on the revised death certificates of California, Idaho, Montana, and New York, as well as on the unrevised certificates of Hawaii, Maine, and Wisconsin (a total of 7 States) (5).

In 2004, multiple race was reported for the entire year on the revised death certificates of Michigan, Montana, New Jersey, New York, Oklahoma, South Dakota, Washington, and Wyoming, as well as on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin (6). New Hampshire began reporting multiple race in mid-April

of 2004 when they implemented the revised certificate.

In 2005, multiple race was reported for the entire year on the revised death certificates of California, Connecticut, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New York, Oklahoma, South Carolina, South Dakota, Utah, Washington, and Wyoming as well as on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin (7). The District of Columbia began reporting multiple race in March 2005 when they started implementing the revised certificate.

In 2006, multiple race was reported for the entire year on the revised death certificates of California, Connecticut, District of Columbia, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Washington, and Wyoming, as well as on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin (8).

In 2007, multiple race was reported on the revised death certificates of California, Connecticut, Delaware, the District of Columbia, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Washington, and Wyoming as well as on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin (a total of 27 States) (9).

For 2008 mortality data, multiple races were reported on the revised death certificates of Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming (10). Multiple races were also reported on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin. Data from the vital records of the remaining 16 states are based on the 1989 revision of the U.S. Standard Certificate of Death.

6. Death rates by race and Hispanic origin are based on information from death certificates (numerators of the rates) and on population estimates from the Census Bureau (denominators). Information included on the death certificate about the race and Hispanic ethnicity of the decedent is reported by the funeral director as provided by an informant, often the surviving next of kin, or, in the absence of an informant, on the basis of observation. Race and ethnicity information from the census is by self-report. To the extent that race and Hispanic origin are inconsistent between these two data sources, death rates will be biased. Studies have shown that persons self-reported as American Indian, Asian, or Hispanic on census and survey records may sometimes be reported as white or non-Hispanic on the death certificate, resulting in an underestimation of deaths and death rates for the American Indian, Asian, and Hispanic groups. Bias also results from undercounts of some population groups in the census, particularly young black males, young white males, and elderly persons, resulting in an overestimation of death rates (19, 20). Rosenberg estimated that the misclassification and undercoverage result in overstated death rates for the white and black populations (1% and 5%, respectively) and understated death rates for other population groups (American Indians, 21%; Asian or Pacific Islanders, 11%; and Hispanics, 2% (17).

**7. Recently added and deleted ICD-10 codes.** Beginning with data for 2001, NCHS introduced categories \*U01-\*U03 for deaths due to acts of terrorism (the asterisks before the codes indicate that they are not part of the ICD-10). Deaths classified to the terrorism categories are included in the categories for Assault (homicide) and Intentional Self-harm (suicide) in the 113 cause-of-death list. Additional information about these categories is available from: [http://www.cdc.gov/nchs/icd/terrorism\\_code.htm](http://www.cdc.gov/nchs/icd/terrorism_code.htm). Information about deaths resulting from the terrorist attacks on September 11, 2001, is available in the “Leading Causes of Death” section and the Technical Notes in *Deaths: Final Data for 2001* (3).

Effective with data year 2006, 18 new ICD-10 codes were added as valid underlying cause-of-death codes (B33.4, G90.4, I15.0, I15.9, K22.7, K85.0, K85.1, K85.2, K85.3, K85.8, K85.9, M31.7, M79.7, P91.6, R29.6, R50.2, R50.8, and W46) (8). At the same time, 4 ICD-10 codes were deleted from the list of valid underlying cause-of-death codes (I25.2, K85, R50.0, and R50.1) (8).

Effective with data year 2006, “Essential (primary) hypertension and hypertensive renal disease” was changed to “Essential hypertension and hypertensive renal disease” in the 113 cause-of-death list to reflect the addition of the new code, Secondary hypertension (ICD-10 code I15) (6).

Effective with data year 2007, 4 new ICD-10 codes were added as valid, underlying cause-of-death codes (J09, U04.9, X59.0, X59.9). In 2007, no deaths were assigned to J09 or U04.9. Beginning with 2007, the three-digit code, X59 is no longer selected as an underlying cause-of-death code as it represents the sum of the two new codes x59.0 and X59.9. ICD-10 code F10.0 was deleted as a valid, underlying cause-of-death code in 2007(9). The 113 causes of death list was modified to reflect the added and deleted codes. See **Appendix A** for details.

**8. Changes in county codes.** County codes on the 1999-2002 micro-data mortality files are based on 1990 census geography. Beginning with the 2003 data year, the revised geographic coding manual was implemented resulting in the addition of codes for Denali, Alaska and Broomfield, Colorado. See **Appendix E** for full details about county codes on the mortality and population files.

9. For 2006 and 2007, deaths for Allen Parish, Louisiana (FIPS = 02003) are underreported due to problems with registering the deaths with the Louisiana Vital Statistics Office (approximately 150 in 2006 and 200 in 2007) (9).

10. The State and county FIPS codes contain leading zeros in both the 2-byte State code and the 3-byte county code.

## File Specifications for the Mortality File

File name	Years	Number of records	Record Length	Format
MORT9908.txt	1999-2008	11,279,461	24	ASCII

The file is sorted by locations 6-9, 1-5, 10, 11-12, 13-16.

Location	Field Size	Item and Code Outline	Format
		<u>FIPS Codes</u> (See Appendices <b>E</b> and <b>F</b> )	
1-2	2	FIPS State code	Numeric
3-5	3	FIPS county code	Numeric
6-9	4	<u>Year of death</u> (1999-2008)	Numeric
10	1	<u>Race-sex</u> 1 White male 2 White female 3 Black male 4 Black female 5 American Indian or Alaska Native male 6 American Indian or Alaska Native female 7 Asian or Pacific Islander male 8 Asian or Pacific Islander female	Numeric
11	1	<u>Hispanic origin</u> 1 not Hispanic or Latino 2 Hispanic or Latino 9 not stated	Numeric
12-13	2	<u>Age at death</u> 01 under 1 day 02 1-6 days 03 7-27 days 04 28-364 days 05 1-4 years 06 5-9 years 07 10-14 years 08 15-19 years 09 20-24 years 10 25-34 years 11 35-44 years 12 45-54 years 13 55-64 years 14 65-74 years 15 75-84 years 16 85+ years 99 Unknown	Numeric
14-17	4	<u>ICD-10 code for underlying cause-of-death</u>	Character

18-20	3	<u>113 Cause-of-Death Recode</u> (See <b>Appendix A</b> )	Numeric
21-24	4	<u>Number of deaths</u>	Numeric

Table 1. Number of deaths, by race and sex: United States, 1999-2008

Race and sex	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
All races										
Both sexes	2,391,399	2,403,351	2,416,425	2,443,387	2,448,288	2,397,615	2,448,017	2,426,264	2,423,712	2,471,984
Male	1,175,460	1,177,578	1,183,421	1,199,264	1,201,964	1,181,668	1,207,675	1,201,942	1,203,968	1,226,197
Female	1,215,939	1,225,773	1,233,004	1,244,123	1,246,324	1,215,947	1,240,342	1,224,322	1,219,744	1,245,787
White										
Both sexes	2,061,348	2,071,287	2,079,691	2,102,589	2,103,714	2,056,643	2,098,097	2,077,549	2,074,151	2,120,233
Male	1,005,335	1,007,191	1,011,218	1,025,196	1,025,650	1,007,266	1,028,152	1,022,328	1,023,951	1,046,183
Female	1,056,013	1,064,096	1,068,473	1,077,393	1,078,064	1,049,377	1,069,945	1,055,221	1,050,200	1,074,050
Black										
Both sexes	285,064	285,826	287,709	290,051	291,300	287,315	292,808	289,971	289,585	289,072
Male	145,703	145,184	145,908	146,835	148,022	145,970	149,108	148,602	148,309	147,143
Female	139,361	140,642	141,801	143,216	143,278	141,345	143,700	141,369	141,276	141,929
American Indian or Alaska Native										
Both sexes	11,312	11,363	11,977	12,415	13,147	13,124	13,918	14,037	14,367	14,776
Male	6,092	6,185	6,466	6,750	7,106	7,134	7,607	7,630	7,885	8,163
Female	5,220	5,178	5,511	5,665	6,041	5,990	6,311	6,407	6,482	6,613
Asian or Pacific Islander										
Both sexes	33,675	34,875	37,048	38,332	40,127	40,533	43,194	44,707	45,609	47,903
Male	18,330	19,018	19,829	20,483	21,186	21,298	22,808	23,382	23,823	24,708
Female	15,345	15,857	17,219	17,849	18,941	19,235	20,386	21,325	21,786	23,195

Table 2. Number of deaths, by Hispanic origin and sex: United States, 1999-2008

Hispanic origin and sex	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
All origins										
Both sexes	2,391,399	2,403,351	2,416,425	2,443,387	2,448,288	2,397,615	2,448,017	2,426,264	2,423,712	2,471,984
Male	1,175,460	1,177,578	1,183,421	1,199,264	1,201,964	1,181,668	1,207,675	1,201,942	1,203,968	1,226,197
Female	1,215,939	1,225,773	1,233,004	1,244,123	1,246,324	1,215,947	1,240,342	1,224,322	1,219,744	1,245,787
Not Hispanic or Latino										
Both sexes	2,279,325	2,287,846	2,295,244	2,318,269	2,319,476	2,269,583	2,312,028	2,288,424	2,284,446	2,327,636
Male	1,112,718	1,112,704	1,115,683	1,129,090	1,129,927	1,109,848	1,131,013	1,124,813	1,125,974	1,146,394
Female	1,166,607	1,175,142	1,179,561	1,189,179	1,189,549	1,159,735	1,181,015	1,163,611	1,158,472	1,181,242
Hispanic or Latino										
Both sexes	103,740	107,254	113,413	117,135	122,026	122,416	131,161	133,004	135,519	139,241
Male	57,991	60,172	63,317	65,703	68,119	68,544	73,788	74,250	75,708	76,861
Female	45,749	47,082	50,096	51,432	53,907	53,872	57,373	58,754	59,811	62,380
Origin not stated										
Both sexes	8,334	8,251	7,768	7,983	6,786	5,616	4,828	4,836	3,747	5,107
Male	4,751	4,702	4,421	4,471	3,918	3,276	2,874	2,879	2,286	2,942
Female	3,583	3,549	3,347	3,512	2,868	2,340	1,954	1,957	1,461	2,165

## VI. Description of the Population File

The national, State, and county population estimates on the CMF are bridged-race estimates of the resident population of the United States produced by the U.S. Census Bureau in collaboration with NCHS (21-31). The population estimates for 1999 are bridged-race intercensal estimates of the resident population of the United States as of July 1 of the year. The population estimates for 2000 are bridged modified race April 1 census counts. The population estimates for 2001-2008 are July 1 bridged-race postcensal estimates from various Vintage series. A description of the population estimates on the CMF is provided in this section; general information about intercensal estimates, postcensal estimates, and bridged-race estimates is provided in **Appendix D**.

**Table 3** shows the sources of the population estimates. **Table 4** shows number of live births by year, race, Hispanic origin, and sex. **Tables 5 and 6** show estimated U.S. resident population totals by year, race, Hispanic origin, sex, and type of estimate (national, State, or county). **Table 7** shows estimated State populations (for estimate type=State) by year.

### Specific details

**1. Methodology changes for Vintages 2007 and 2008.** Extensive methodology changes were implemented for the Vintage 2007 postcensal population estimates and additional changes were implemented for the Vintage 2008 Vintage estimates (32-34). For Vintage 2007, the methodologic changes primarily involved estimation of international migration. For Vintage 2008, the main methodologic changes involved: 1) the estimation of net international migration, 2) the incorporation of accepted challenges and special censuses into the national population estimates, and 3) the imputation of race and Hispanic origin for births. (9). The net impact of the various methodologic changes implemented for the two vintages was a downward shift of the Vintage 2007 estimates when compared to those from the Vintage 2006 series and a further downward shift of the Vintage 2008 estimates when compared to the Vintage 2007 estimates.

**2. Hurricanes Katrina and Rita Impact on Vintage 2008 estimates.** For Vintage 2008, the Census Bureau adjusted the population estimates for Alabama, Louisiana, Mississippi and Texas (for 2006 and later) to accommodate geographic shifts in the populations that resulted from Hurricanes Katrina and Rita in 2005 (35).

**3. Missing Hispanic origin.** Because there are records on the mortality file with Hispanic origin unknown, there are corresponding records on the population file. All of the population estimates on these records are zero, but the live birth counts may be nonzero.

**4. Race bridging.** Race bridging refers to making data collected using one set of race categories consistent with data collected using a different set of race categories, to permit estimation and comparison of race-specific statistics at a point in time or over time. More specifically, race bridging is a method used to make multiple-race and single-race data collection systems sufficiently comparable to permit estimation and

analysis of race-specific statistics. The multiple-race data collected on the 2000 census are not comparable with the single-race categories on the 1989 Revision of the Standard Certificate of Death (the certificate still used by some States). Therefore, multiple-race population estimates have been bridged to single-race categories. For more information see **Appendix D** and “Census Populations with Bridged-Race Categories” (18, 36, 37).

**5. Live births and population under one year of age.** To permit the calculation of infant mortality rates and maternal mortality rates, NCHS live birth data are included on the CMF. The race code for live births is "race of mother" as stated on the birth certificate; whereas, the race code on infant death records is the race of decedent. Hispanic origin was not reported on the birth certificate for some infants. On the natality file, missing Hispanic origin information is coded as “not stated”.

An estimate of the population under 1 year of age also is on the file. The estimates of the population under 1 year of age should be used when calculating rates for the total population. Note that if the estimate of the population under 1 year of age is used, the live birth counts should not be included in the population estimate.

**6. National, State, and county population estimates.**

a. There are national, State, and county population estimates on the population file. They can be distinguished by using the FIPS code in location 1-5 or the record type variable in location 149.

- National population records have a State FIPS code of "00" and a county FIPS code of "000" and a record type code of "1".
- State population records have a nonzero 2-digit State FIPS code and a county FIPS code of "000" and a record type code of "2".
- County population records have nonzero 2-digit State and 3-digit county FIPS codes and a record type code of "3".

b. See **Appendix F** for a complete listing of State and county FIPS codes.

c. The State and county FIPS codes contain leading zeros in both the 2-byte State code and the 3-byte county code.

d. The national estimates are not revised annually when the file is updated to include an additional year of data so that the national population estimates on the file will be the same as those used by NCHS to calculate published death rates. By contrast, the State and county estimates on the CMF are revised annually when the file is updated to add another year of data; they are from the most recent postcensal series of population estimates. Users, who wish to replicate death rates published by NCHS, should use the national population estimates when calculating rates.

For some years, the national, state, and county population estimates are derived from the same series of estimates and for some years they are not (**Table 3**). For all years, 1999-2008, the State estimates were derived by summing the county estimates, so the State and county population estimates are consistent with each other (**Tables 4-6**). For 1999 and 2000, the national population estimates are derived by summing the county-level estimates, so they are consistent with both the State and county estimates. For 2001 and beyond, the national population estimates are not derived from the same postcensal series as the State or county estimates, so they are not

consistent with them (**Tables 3-6**).

**7. Limitations of State and county population estimates.** The State and county population estimates have been provided for age-race-sex groups for the user's convenience in aggregating to various groups. However, the limitations of the methodology used to derive State and county estimates are such that the U.S. Census Bureau does not consider the estimates to be accurate for each age-race-sex cell. The Census Bureau believes that aggregating the individual cells to larger groups will reduce the level of error. Further, although the estimates are not rounded, the U.S. Census Bureau does not consider the estimates to be accurate to the last digit. Additionally, although efforts were made to use the best available data and methods to produce the bridged-race population estimates, the modeling process introduces error into the estimates. The potential for error is greatest for the smallest population groups, particularly the smaller race groups and county level estimates.

**8. Variance of population estimates.** It is usually assumed that population estimates are fixed and do not contribute to the variance of rates. However, this is not true for bridged-race population estimates. Methodology to compute variances for rates calculated using bridged-race population estimates has been developed (**37**).

**9. Source of population estimates.**

Table 3 summarizes the sources of the population data on the CMF.

Date of estimate	Geographic type		
	National	State	County
July 1, 1999	Intercensal series	Intercensal series	Intercensal series
April 1, 2000	Modified –race census counts	Modified–race census counts	Modified-race census counts
July 1, 2001	Vintage 2001 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2002	Vintage 2002 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2003	Vintage 2003 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2004	Vintage 2004 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2005	Vintage 2005 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2006	Vintage 2006 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2007	Vintage 2007 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series
July 1, 2008	Vintage 2008 postcensal series	Vintage 2009 postcensal series	Vintage 2009 postcensal series

<sup>1</sup> All source files, except the Vintage 2001 file, are county-level files with bridged-race

categories. The Vintage 2001 file has bridged-race national estimates only.

**1999 population estimates.** National, State, and county population estimates for 1999 are bridged-race intercensal estimates of the July 1 resident population derived from the county-level file with estimates by 5-year age group (under 1, 1-4, 5-9,..., 85 years and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White) and Hispanic origin (not Hispanic or Latino, Hispanic or Latino) (21). The estimates were produced by the U.S. Census Bureau in collaboration with NCHS and with support from the National Cancer Institute. The national and State population estimates for 1999 on the CMF were obtained by summing the county estimates.

Derivation of the race-specific intercensal population estimates for the 1990s was complicated by the incomparability of the race data on the 1990 and the 2000 censuses. Before the intercensal estimates for the 1990s could be derived, the race groups on the 2000 census had to be made consistent with (bridged to) the race categories on the 1990 census (White, Black, American Indian or Alaska Native, Asian or Pacific Islander) (18).

**2000 population estimates.** National, State, and county population estimates for 2000 are bridged-race estimates of the April 1, resident population derived from the county-level file with bridged modified-race census counts by single year of age, sex, bridged-race ( American Indian or Alaska Native; Asian or Pacific Islander, Black, White), Hispanic origin (not Hispanic or Latino, Hispanic or Latino) (22). Prior to bridging, the original census counts were modified by the U.S. Census Bureau to assign persons who reported their race as "other" to one of the 31 single- or multiple-race groups specified in the 1997 OMB standards on race and ethnicity (15, 39).

The Census Bureau, in collaboration with NCHS, bridged the resulting modified-race counts to the four single-race categories (White, Black, American Indian or Alaska Native, and Asian or Pacific Islander) (18). The national and State population estimates were obtained by summing the county estimates.

**2001 population estimates.** The national population estimates for 2001 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2001 postcensal series (23). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2001 and the Vintage 2009 postcensal series have estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2002 population estimates.** The national population estimates for 2002 are bridged-race estimates of the July 1 resident population derived from the bridged-

race Vintage 2002 postcensal series (24). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2002 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2003 population estimates.** The national population estimates for 2003 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2003 postcensal series (25). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2003 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2004 population estimates.** The national population estimates for 2004 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2004 postcensal series (26). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2004 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2005 population estimates.** The national population estimates for 2005 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2005 postcensal series (27). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2005 and the Vintage 2009 postcensal series have county-level estimates by single year of

age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2006 population estimates.** The national population estimates for 2006 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2006 postcensal series (28). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2006 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2007 population estimates.** The national population estimates for 2007 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2007 postcensal series (29). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2007 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

**2008 population estimates.** The national population estimates for 2008 are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2008 postcensal series (30). The State and county population estimates are bridged-race estimates of the July 1 resident population derived from the bridged-race Vintage 2009 postcensal series (31). Both the Vintage 2008 and the Vintage 2009 postcensal series have county-level estimates by single year of age (0 to 85 and over), sex, bridged-race (American Indian or Alaska Native, Asian or Pacific Islander, Black, White), and Hispanic origin (not Hispanic or Latino, Hispanic or Latino). The bridged-race estimates were produced by the U.S. Census Bureau in collaboration with NCHS by bridging the 31-race postcensal

series (18). The State estimates were obtained by summing the county estimates, so the State and county estimates are consistent with each other. The national estimates are not consistent with the State and county estimates because they are from an earlier postcensal series.

## File Specifications for the Population File

File name	Years	Number of records	Record length	Format
POP9908	1999-2008	766,176	149	ASCII

The file is sorted by locations 6-9, 1-5, 10, 11.

Location	Field Size	Item and Code Outline	Format
		<u>FIPS codes</u> (See Appendices <b>E</b> and <b>F</b> )	
1-2	2	FIPS State code	Numeric
3-5	3	FIPS county code	Numeric
6-9	4	<u>Year</u> (1999-2008)	Numeric
10	1	<u>Race-sex</u> 1 White male 2 White female 3 Black male 4 Black female 5 American Indian or Alaska Native male 6 American Indian or Alaska Native female 7 Asian or Pacific Islander male 8 Asian or Pacific Islander female	Numeric
11	1	<u>Hispanic origin</u> 1 Not Hispanic or Latino 2 Hispanic or Latino 9 Not stated	Numeric
12-19	8	<u>Number of live births</u>	Numeric
20-27	8	<u>Population in age group: &lt;1 year</u>	Numeric
28-35	8	<u>Population in age group: 1-4 years</u>	Numeric
36-43	8	<u>Population in age group: 5-9 years</u>	Numeric
44-51	8	<u>Population in age group: 10-14 years</u>	Numeric
52-59	8	<u>Population in age group: 15-19 years</u>	Numeric
60-67	8	<u>Population in age group: 20-24 years</u>	Numeric
68-75	8	<u>Population in age group: 25-34 years</u>	Numeric
76-83	8	<u>Population in age group: 35-44 years</u>	Numeric
84-91	8	<u>Population in age group: 45-54 years</u>	Numeric
92-99	8	<u>Population in age group: 55-64 years</u>	Numeric
100-107	8	<u>Population in age group: 65-74 years</u>	Numeric

Location	Field Size	Item and Code Outline	Format
108-115	8	<u>Population in age group: 75-84 years</u>	Numeric
116-123	8	<u>Population in age group: 85+ years</u>	Numeric
124-148	25	<u>County name</u> (See <b>Appendix F</b> )	Character
149	1	<u>Record type</u> 1 National population record 2 State population record 3 County population record	Numeric

Table 4. Number of live births, according to race, Hispanic origin, sex, and year: United States, 1999-2008

	1999	2000	2001	2002	2003	2004
<b>All races</b>						
Both sexes	3,959,417	4,058,814	4,025,933	4,021,726	4,089,950	4,112,052
Male	2,026,854	2,076,969	2,057,922	2,057,979	2,093,535	2,104,661
Female	1,932,563	1,981,845	1,968,011	1,963,747	1,996,415	2,007,391
<b>White</b>						
Both sexes	3,132,501	3,194,005	3,177,626	3,174,760	3,225,848	3,222,928
Male	1,605,603	1,636,081	1,625,511	1,626,303	1,652,146	1,650,697
Female	1,526,898	1,557,924	1,552,115	1,548,457	1,573,702	1,572,231
<b>Black</b>						
Both sexes	605,970	622,598	606,156	593,691	599,847	616,074
Male	307,670	316,115	307,834	301,498	305,207	313,896
Female	298,300	306,483	298,322	292,193	294,640	302,178
<b>American Indian or Alaska Native</b>						
Both sexes	40,170	41,668	41,872	42,368	43,052	43,927
Male	20,370	21,193	21,183	21,423	22,018	22,293
Female	19,800	20,475	20,689	20,945	21,034	21,634
<b>Asian or Pacific Islander</b>						
Both sexes	180,776	200,543	200,279	210,907	221,203	229,123
Male	93,211	103,580	103,394	108,755	114,164	117,775
Female	87,565	96,963	96,885	102,152	107,039	111,348
<b>All origins</b>						
Both sexes	3,959,417	4,058,814	4,025,933	4,021,726	4,089,950	4,112,052
Male	2,026,854	2,076,969	2,057,922	2,057,979	2,093,535	2,104,661
Female	1,932,563	1,981,845	1,968,011	1,963,747	1,996,415	2,007,391
<b>Not Hispanic or Latino</b>						
Both sexes	3,147,580	3,199,994	3,149,572	3,119,944	3,149,034	3,133,125
Male	1,612,665	1,638,499	1,611,593	1,598,082	1,613,707	1,605,127
Female	1,534,915	1,561,495	1,537,979	1,521,862	1,535,327	1,527,998
<b>Hispanic or Latino</b>						
Both sexes	764,339	815,868	851,851	876,642	912,329	946,349
Male	389,881	416,523	433,866	447,031	465,230	482,923
Female	374,458	399,345	417,985	429,611	447,099	463,426
<b>Origin not stated</b>						
Both sexes	47,498	42,952	24,510	25,140	28,587	32,578
Male	24,308	21,947	12,463	12,866	14,598	16,611
Female	23,190	21,005	12,047	12,274	13,989	15,967

Table 4 (contd.) Number of live births according to race, sex, Hispanic origin, sex, and year: United States, 1999-2008

	2005	2006	2007	2008
<b>All races</b>				
Both sexes	4,138,349	4,265,555	4,316,233	4,247,694
Male	2,118,982	2,184,237	2,208,071	2,173,389
Female	2,019,367	2,081,318	2,108,162	2,074,305
<b>White</b>				
Both sexes	3,229,294	3,310,308	3,336,626	3,274,163
Male	1,655,812	1,695,870	1,708,315	1,676,718
Female	1,573,482	1,614,438	1,628,311	1,597,445
<b>Black</b>				
Both sexes	633,134	666,481	675,676	670,809
Male	321,259	339,838	343,279	340,885
Female	311,875	326,643	332,397	329,924
<b>American Indian or Alaska Native</b>				
Both sexes	44,813	47,721	49,443	49,537
Male	22,673	24,309	25,177	25,196
Female	22,140	23,412	24,266	24,341
<b>Asian or Pacific Islander</b>				
Both sexes	231,108	241,045	254,488	253,185
Male	119,238	124,220	131,300	130,590
Female	111,870	116,825	123,188	122,595
<b>All origins</b>				
Both sexes	4,138,349	4,265,555	4,316,233	4,247,694
Male	2,118,982	2,184,237	2,208,071	2,173,389
Female	2,019,367	2,081,318	2,108,162	2,074,305
<b>Not Hispanic or Latino</b>				
Both sexes	3,123,005	3,196,082	3,222,460	3,173,629
Male	1,600,186	1,637,876	1,650,061	1,624,619
Female	1,522,819	1,558,206	1,572,399	1,549,010
<b>Hispanic or Latino</b>				
Both sexes	985,505	1,039,077	1,062,779	1,041,239
Male	503,483	530,874	542,174	531,999
Female	482,022	508,203	520,605	509,240
<b>Origin not stated</b>				
Both sexes	29,839	30,396	30,994	32,826
Male	15,313	15,487	15,836	16,771
Female	14,526	14,909	15,158	16,055

Table 5. Estimated resident population according to race, sex, year, and type of estimate: United States, 1999-2008

Race-sex	July 1, 1999	April 1, 2000	July 1, 2001		July 1, 2002		July 1, 2003	
	Type of Estimate							
	National, State and county <sup>1</sup>	National, State and county <sup>2</sup>	National <sup>3</sup>	State and county <sup>4</sup>	National <sup>5</sup>	State and county <sup>4</sup>	National <sup>6</sup>	State and county <sup>4</sup>
<b>All races</b>								
Both sexes	279,040,168	281,421,906	284,796,887	285,081,556	288,368,706	287,803,914	290,810,789	290,326,418
Male	136,802,873	138,053,563	139,813,108	139,998,551	141,660,980	141,413,818	143,037,290	142,676,927
Female	142,237,295	143,368,343	144,983,779	145,083,005	146,707,726	146,390,096	147,773,499	147,649,491
<b>White</b>								
Both sexes	228,687,790	230,085,762	232,351,696	232,549,653	234,746,440	234,356,090	236,349,420	236,028,839
Male	112,695,874	113,445,038	114,659,071	114,795,622	115,966,453	115,764,482	116,875,095	116,623,703
Female	115,991,916	116,640,724	117,692,625	117,754,031	118,779,987	118,591,608	119,474,325	119,405,136
<b>Black</b>								
Both sexes	36,173,121	36,594,309	37,196,779	37,192,187	37,747,692	37,632,397	38,148,112	38,029,430
Male	17,195,091	17,407,029	17,710,410	17,709,060	17,978,612	17,925,957	18,190,193	18,112,964
Female	18,978,030	19,187,280	19,486,369	19,483,127	19,769,080	19,706,440	19,957,919	19,916,466
<b>American Indian or Alaska Native</b>								
Both sexes	2,832,761	2,984,150	3,054,311	3,028,100	3,076,095	3,081,530	3,111,067	3,134,124
Male	1,410,781	1,488,106	1,524,362	1,511,112	1,535,463	1,537,945	1,552,954	1,563,852
Female	1,421,980	1,496,044	1,529,949	1,516,988	1,540,632	1,543,585	1,558,113	1,570,272
<b>Asian or Pacific Islander</b>								
Both sexes	11,346,496	11,757,685	12,194,101	12,311,616	12,798,479	12,733,897	13,202,190	13,134,025
Male	5,501,127	5,713,390	5,919,265	5,982,757	6,180,452	6,185,434	6,419,048	6,376,408
Female	5,845,369	6,044,295	6,274,836	6,328,859	6,618,027	6,548,463	6,783,142	6,757,617

<sup>1</sup> The 1999 national, state, and county population estimates are derived from the bridged-race 1990-based intercensal estimates and are consistent with each other **(21)**.

<sup>2</sup> The 2000 national, state, and county population estimates are derived from the bridged-race April 1, 2000 census counts and are consistent with each other **(22)**.

<sup>3</sup> The 2001 national population estimates are derived from the bridged-race Vintage 2001 postcensal series **(23)**.

<sup>4</sup> The 2001-2008 state and county population estimates are derived from the bridged-race Vintage 2009 postcensal series (and are consistent with each other **(31)**).

<sup>5</sup> The 2002 national population estimates are derived from the bridged-race Vintage 2002 postcensal series **(24)**.

<sup>6</sup> The 2003 national population estimates are derived from the bridged-race Vintage 2003 postcensal series **(25)**.

Table 5 (contd.). Estimated resident population according to race, sex, year, and type of estimate: United States, 1999-2008

Race and sex	July 1, 2004		July 1, 2005		July 1, 2006	
	Type of estimate					
	National <sup>7</sup>	State and county <sup>4</sup>	National <sup>8</sup>	State and county <sup>4</sup>	National <sup>9</sup>	State and county <sup>4</sup>
All races						
Both sexes	293,655,404	293,045,739	296,410,404	295,753,151	299,398,484	298,593,212
Male	144,537,402	144,137,674	145,999,746	145,560,767	147,512,152	147,060,702
Female	149,118,002	148,908,065	150,410,658	150,192,384	151,886,332	151,532,510
White						
Both sexes	238,268,102	237,840,061	240,135,528	239,615,694	242,097,490	241,489,377
Male	117,915,508	117,629,123	118,932,055	118,593,130	119,950,187	119,612,517
Female	120,352,594	120,210,938	121,203,473	121,022,564	122,147,303	121,876,860
Black						
Both sexes	38,600,765	38,490,396	39,073,991	38,956,529	39,558,375	39,455,084
Male	18,416,886	18,350,109	18,657,991	18,584,240	18,889,595	18,838,048
Female	20,183,879	20,140,287	20,416,000	20,372,289	20,668,780	20,617,036
American Indian or Alaska Native						
Both sexes	3,148,484	3,189,633	3,161,185	3,247,825	3,201,342	3,308,485
Male	1,572,049	1,592,527	1,578,703	1,622,125	1,599,082	1,653,136
Female	1,576,435	1,597,106	1,582,482	1,625,700	1,602,260	1,655,349
Asian or Pacific Islander						
Both sexes	13,638,053	13,525,649	14,039,700	13,933,103	14,541,277	14,340,266
Male	6,632,959	6,565,915	6,830,997	6,761,272	7,073,288	6,957,001
Female	7,005,094	6,959,734	7,208,703	7,171,831	7,467,989	7,383,265

<sup>7</sup> The 2004 national population estimates are derived from the bridged-race Vintage 2004 postcensal series (26).

<sup>8</sup> The 2005 national population estimates are derived from the bridged-race Vintage 2005 postcensal series (27).

<sup>9</sup> The 2006 national population estimates are derived from the bridged-race Vintage 2006 postcensal series (28).

Table 5 (contd.). Estimated resident population according to race, sex, year, and type of estimate: United States, 1999-2008

Race and sex	July 1, 2007		July 1, 2008	
	Type of estimate			
	National <sup>10</sup>	State and county <sup>4</sup>	National <sup>11</sup>	State and county <sup>4</sup>
All races				
Both sexes	301,621,157	301,579,895	304,059,724	304,374,846
Male	148,658,898	148,612,102	149,924,604	150,074,226
Female	152,962,259	152,967,793	154,135,120	154,300,620
White				
Both sexes	243,582,944	243,470,781	245,240,252	245,287,692
Male	120,734,413	120,667,477	121,605,170	121,644,483
Female	122,848,531	122,803,304	123,635,082	123,643,209
Black				
Both sexes	40,028,958	39,990,478	40,366,208	40,508,357
Male	19,121,492	19,106,361	19,292,523	19,367,658
Female	20,907,466	20,884,117	21,073,685	21,140,699
American Indian or Alaska Native				
Both sexes	3,235,707	3,374,002	3,421,898	3,437,919
Male	1,615,238	1,686,949	1,709,310	1,719,192
Female	1,620,469	1,687,053	1,712,588	1,718,727
Asian or Pacific Islander				
Both sexes	14,773,548	14,744,634	15,031,366	15,140,878
Male	7,187,755	7,151,315	7,317,601	7,342,893
Female	7,585,793	7,593,319	7,713,765	7,797,985

<sup>10</sup> The 2007 national population estimates are derived from the bridged-race Vintage 2007 postcensal series (29).

<sup>11</sup> The 2008 national population estimates are derived from the bridged-race Vintage 2008 postcensal series (30).

Note: The national population estimates in this table for 2001-2008 differ from those in Table 7 because they are from the Vintage 2001-Vintage 2008 postcensal series whereas those in Table 7 are all from the Vintage 2009 postcensal series.

Table 6. Estimated resident population according to Hispanic origin, sex, year, and type of estimate: United States, 1999-2008

Origin and sex	July 1, 1999	July 1, 2000	July 1, 2001	July 1, 2002		July 1, 2003		
	Type of estimate							
	National, state, and county <sup>1</sup>	National, state, and county <sup>2</sup>	National <sup>3</sup>	State and county <sup>4</sup>	National <sup>5</sup>	State and county <sup>4</sup>	National <sup>6</sup>	State and county <sup>4</sup>
All origins								
Both sexes	279,040,168	281,421,906	284,796,887	285,081,556	288,368,706	287,803,914	290,810,789	290,326,418
Male	136,802,873	138,053,563	139,813,108	139,998,551	141,660,980	141,413,818	143,037,290	142,676,927
Female	142,237,295	143,368,343	144,983,779	145,083,005	146,707,726	146,390,096	147,773,499	147,649,491
Not Hispanic or Latino								
Both sexes	245,102,373	246,116,088	247,824,668	248,028,944	249,607,402	249,358,913	250,911,726	250,540,432
Male	119,366,509	119,891,768	120,795,519	120,910,157	121,669,754	121,591,567	122,438,175	122,155,966
Female	125,735,864	126,224,320	127,029,149	127,118,787	127,937,648	127,767,346	128,473,551	128,384,466
Hispanic or Latino								
Both sexes	33,937,795	35,305,818	36,972,219	37,052,612	38,761,304	38,445,001	39,899,063	39,785,986
Male	17,436,364	18,161,795	19,017,589	19,088,394	19,991,226	19,822,251	20,599,115	20,520,961
Female	16,501,431	17,144,023	17,954,630	17,964,218	18,770,078	18,622,750	19,299,948	19,265,025

<sup>1</sup> The 1999 national, state, and county population estimates are derived from the bridged-race 1990-based intercensal estimates and are consistent with each other **(21)**.

<sup>2</sup> The 2000 national, state, and county population estimates are derived from the bridged-race April 1, 2000 census and are consistent with each other **(22)**.

<sup>3</sup> The 2001 national population estimates are derived from the bridged-race Vintage 2001 postcensal series **(23)**.

<sup>4</sup> The 2001-2008 state and county population estimates are derived from the bridged-race Vintage 2009 postcensal series (and are consistent with each other **(31)**).

<sup>5</sup> The 2002 national population estimates are derived from the bridged-race Vintage 2002 postcensal series **(24)**.

<sup>6</sup> The 2003 national population estimates are derived from the bridged-race Vintage 2003 postcensal series **(25)**.

Table 6 (contd.). Estimated resident population according to Hispanic origin, sex, year, and type of estimate: United States, 1999-2008

Origin and sex	July 1, 2004		July 1, 2005		July 1, 2006	
	Type of estimate					
	National <sup>7</sup>	State and county <sup>4</sup>	National <sup>8</sup>	State and county <sup>4</sup>	National <sup>9</sup>	State and county <sup>4</sup>
All origins						
Both sexes	293,655,404	293,045,739	296,410,404	295,753,151	299,398,484	298,593,212
Male	144,537,402	144,137,674	145,999,746	145,560,767	147,512,152	147,060,702
Female	149,118,002	148,908,065	150,410,658	150,192,384	151,886,332	151,532,510
Not Hispanic or Latino						
Both sexes	252,333,331	251,906,647	253,723,180	253,200,859	255,077,446	254,575,782
Male	123,190,335	122,902,601	123,934,295	123,579,333	124,587,102	124,308,807
Female	129,142,996	129,004,046	129,788,885	129,621,526	130,490,344	130,266,975
Hispanic						
Both sexes	41,322,073	41,139,092	42,687,224	42,552,292	44,321,038	44,017,430
Male	21,347,067	21,235,073	22,065,451	21,981,434	22,925,050	22,751,895
Female	19,975,006	19,904,019	20,621,773	20,570,858	21,395,988	21,265,535

<sup>7</sup>The 2004 national population estimates are derived from the bridged-race Vintage 2004 postcensal series (26).

<sup>8</sup>The 2005 national population estimates are derived from the bridged-race Vintage 2005 postcensal series (27).

<sup>9</sup>The 2006 national population estimates are derived from the bridged-race Vintage 2006 postcensal series (28).

Table 6 (contd.). Estimated resident population according to Hispanic origin, sex, year, and type of estimate: United States, 1999-2008

Origin and sex	July 1, 2007		July 1, 2008	
	Type of estimate			
	National <sup>10</sup>	State and county <sup>4</sup>	National <sup>11</sup>	State and county <sup>4</sup>
All origins				
Both sexes	301,621,157	301,579,895	304,059,724	304,374,846
Male	148,658,898	148,612,102	149,924,604	150,074,226
Female	152,962,259	152,967,793	154,135,120	154,300,620
Not Hispanic or Latino				
Both sexes	256,116,846	256,071,403	257,116,111	257,396,278
Male	125,135,318	125,080,207	125,670,207	125,772,520
Female	130,981,528	130,991,196	131,445,904	131,623,758
Hispanic				
Both sexes	45,504,311	45,508,492	46,943,613	46,978,568
Male	23,523,580	23,531,895	24,254,397	24,301,706
Female	21,980,731	21,976,597	22,689,216	22,676,862

<sup>10</sup> The 2007 national population estimates are derived from the bridged-race Vintage 2007 postcensal series (29).

<sup>11</sup> The 2008 national population estimates are derived from the bridged-race Vintage 2008 postcensal series (30).

Note: The national population estimates in this table for 2001-2008 differ from those in Table 7 because they are from the Vintage 2001-Vintage 2008 postcensal series whereas those in Table 7 are all from the Vintage 2009 postcensal series.

Table 7. Estimated resident population of the 50 States and the District of Columbia by year: United States, 1999-2008

State	July 1, 1999 <sup>1</sup>	April 1, 2000 <sup>2</sup>	July 1, 2001 <sup>3</sup>	July 1, 2002 <sup>3</sup>	July 1, 2003 <sup>3</sup>	July 1, 2004 <sup>3</sup>	July 1, 2005 <sup>3</sup>	July 1, 2006 <sup>3</sup>	July 1, 2007 <sup>3</sup>	July 1, 2008 <sup>3</sup>
Alabama	4,430,141	4,447,100	4,464,034	4,472,420	4,490,591	4,512,190	4,545,049	4,597,688	4,637,904	4,677,464
Alaska	624,779	626,932	633,316	642,691	650,884	661,569	669,488	677,325	682,297	688,125
Arizona	5,023,823	5,130,632	5,304,417	5,452,108	5,591,206	5,759,425	5,974,834	6,192,100	6,362,241	6,499,377
Arkansas	2,651,860	2,673,400	2,691,068	2,704,732	2,722,291	2,746,161	2,776,221	2,815,097	2,842,194	2,867,764
California	33,499,204	33,871,648	34,485,623	34,876,194	35,251,107	35,558,419	35,795,255	35,979,208	36,226,122	36,580,371
Colorado	4,226,018	4,301,261	4,433,068	4,504,265	4,548,775	4,599,681	4,660,780	4,753,044	4,842,259	4,935,213
Connecticut	3,386,401	3,405,565	3,428,433	3,448,382	3,467,673	3,474,610	3,477,416	3,485,162	3,488,633	3,502,932
Delaware	774,990	783,600	794,620	804,131	814,905	826,639	839,906	853,022	864,896	876,211
District of Columbia	570,213	572,059	578,042	579,585	577,777	579,796	582,049	583,978	586,409	590,074
Florida	15,759,421	15,982,378	16,353,869	16,680,309	16,981,183	17,375,259	17,783,868	18,088,505	18,277,888	18,423,878
Georgia	8,045,965	8,186,453	8,419,594	8,585,535	8,735,259	8,913,676	9,097,428	9,330,086	9,533,761	9,697,838
Hawaii	1,210,300	1,211,537	1,218,305	1,228,069	1,239,298	1,252,782	1,266,117	1,275,599	1,276,832	1,287,481
Idaho	1,275,674	1,293,953	1,321,170	1,342,149	1,364,109	1,391,718	1,425,862	1,464,413	1,499,245	1,527,506
Illinois	12,359,020	12,419,293	12,507,833	12,558,229	12,597,981	12,645,295	12,674,452	12,718,011	12,779,417	12,842,954
Indiana	6,044,969	6,080,485	6,124,967	6,149,007	6,181,789	6,214,454	6,253,120	6,301,700	6,346,113	6,388,309
Iowa	2,917,634	2,926,324	2,929,424	2,929,264	2,932,799	2,941,358	2,949,450	2,964,391	2,978,719	2,993,987
Kansas	2,678,338	2,688,418	2,701,456	2,712,598	2,721,955	2,730,765	2,741,771	2,755,700	2,775,586	2,797,375
Kentucky	4,018,053	4,041,769	4,069,191	4,091,330	4,118,627	4,147,970	4,182,293	4,219,374	4,256,278	4,287,931
Louisiana	4,460,811	4,468,976	4,460,816	4,466,068	4,474,726	4,489,327	4,497,691	4,240,327	4,376,122	4,451,513
Maine	1,266,808	1,274,923	1,284,791	1,293,938	1,303,102	1,308,253	1,311,631	1,314,963	1,317,308	1,319,691
Maryland	5,254,509	5,296,486	5,375,033	5,439,913	5,496,708	5,542,659	5,582,520	5,612,196	5,634,242	5,658,655
Massachusetts	6,317,345	6,349,097	6,411,730	6,440,978	6,451,637	6,451,279	6,453,031	6,466,399	6,499,275	6,543,595
Michigan	9,897,116	9,938,444	10,006,093	10,038,767	10,066,351	10,089,305	10,090,554	10,082,438	10,050,847	10,002,486
Minnesota	4,873,481	4,919,479	4,982,813	5,017,458	5,047,862	5,079,344	5,106,560	5,148,346	5,191,206	5,230,567
Mississippi	2,828,408	2,844,658	2,853,313	2,858,643	2,867,678	2,886,006	2,900,116	2,897,150	2,921,723	2,940,212
Missouri	5,561,948	5,595,211	5,643,986	5,680,852	5,714,847	5,758,444	5,806,639	5,861,572	5,909,824	5,956,335
Montana	897,507	902,195	905,873	909,868	916,750	925,887	934,801	946,230	957,225	968,035
Nebraska	1,704,764	1,711,263	1,717,948	1,725,083	1,733,680	1,742,184	1,751,721	1,760,435	1,769,912	1,781,949
Nevada	1,934,718	1,998,257	2,094,509	2,166,214	2,236,949	2,328,703	2,408,804	2,493,405	2,567,752	2,615,772
New Hampshire	1,222,014	1,235,786	1,256,879	1,271,163	1,281,871	1,292,766	1,301,415	1,311,894	1,317,343	1,321,872
New Jersey	8,359,592	8,414,350	8,489,469	8,544,115	8,583,481	8,611,530	8,621,837	8,623,721	8,636,043	8,663,398
New Mexico	1,808,082	1,819,046	1,828,809	1,850,035	1,869,683	1,891,829	1,916,538	1,942,608	1,968,731	1,986,763

Table 7 (contd.). Estimated resident population of the 50 States and the District of Columbia by year: United States, 1999-2008

State	July 1, 1999 <sup>1</sup>	April 1, 2000 <sup>2</sup>	July 1, 2001 <sup>3</sup>	July 1, 2002 <sup>3</sup>	July 1, 2003 <sup>3</sup>	July 1, 2004 <sup>3</sup>	July 1, 2005 <sup>3</sup>	July 1, 2006 <sup>3</sup>	July 1, 2007 <sup>3</sup>	July 1, 2008 <sup>3</sup>
New York	18,882,725	18,976,457	19,088,978	19,161,873	19,231,101	19,297,933	19,330,891	19,356,564	19,422,777	19,467,789
North Carolina	7,949,361	8,049,313	8,203,451	8,316,617	8,416,451	8,531,283	8,669,452	8,866,977	9,064,074	9,247,134
North Dakota	644,259	642,200	636,267	633,617	632,809	636,303	635,365	636,771	638,202	641,421
Ohio	11,335,454	11,353,140	11,396,874	11,420,981	11,445,180	11,464,593	11,475,262	11,492,495	11,520,815	11,528,072
Oklahoma	3,437,147	3,450,654	3,464,729	3,484,754	3,498,687	3,514,449	3,532,769	3,574,334	3,612,186	3,644,025
Oregon	3,393,941	3,421,399	3,470,382	3,517,111	3,550,180	3,573,505	3,617,869	3,677,545	3,732,957	3,782,991
Pennsylvania	12,263,805	12,281,054	12,299,533	12,326,302	12,357,524	12,388,368	12,418,161	12,471,142	12,522,531	12,566,368
Rhode Island	1,040,402	1,048,319	1,058,051	1,066,034	1,071,504	1,071,414	1,064,989	1,060,196	1,055,009	1,053,502
South Carolina	3,974,682	4,012,012	4,062,701	4,103,934	4,146,474	4,201,306	4,256,199	4,339,399	4,424,232	4,503,280
South Dakota	750,412	754,844	758,983	762,107	766,975	774,283	780,084	788,519	797,035	804,532
Tennessee	5,638,706	5,689,283	5,755,443	5,803,306	5,856,522	5,916,762	5,995,748	6,089,453	6,172,862	6,240,456
Texas	20,558,220	20,851,820	21,332,847	21,710,788	22,057,801	22,418,319	22,801,920	23,369,024	23,837,701	24,304,290
Utah	2,203,482	2,233,169	2,291,250	2,334,473	2,379,938	2,438,915	2,499,637	2,583,724	2,663,796	2,727,343
Vermont	604,683	608,827	612,153	614,950	616,559	618,145	618,814	619,985	620,460	621,049
Virginia	7,000,174	7,078,515	7,191,304	7,283,541	7,373,694	7,468,914	7,563,887	7,646,996	7,719,749	7,795,424
Washington	5,842,564	5,894,121	5,987,785	6,056,187	6,113,262	6,184,289	6,261,282	6,372,243	6,464,979	6,566,073
West Virginia	1,811,799	1,808,344	1,798,582	1,799,411	1,802,238	1,803,302	1,803,920	1,807,237	1,811,198	1,814,873
Wisconsin	5,332,666	5,363,675	5,408,769	5,446,766	5,476,796	5,511,385	5,541,443	5,571,680	5,601,571	5,627,610
Wyoming	491,780	493,782	492,982	497,069	499,189	502,988	506,242	512,841	523,414	532,981

<sup>1</sup> These population estimates are derived from the bridged-race 1990-based intercensal estimates (21).

<sup>2</sup> These population estimates are derived from the bridged-race April 1, 2000 census estimates (22).

<sup>3</sup> These population estimates are derived from the bridged-race Vintage 2009 postcensal series (31).

Note: The national population totals for 2001-2008 in this table were obtained from the Vintage 2009 postcensal series. They differ from the national population estimates for 2001-2008 in Tables 5 and 6 because those estimates are from the Vintage 2001-Vintage 2008 postcensal series.

## APPENDIX A

### ICD-10 113 Selected Causes of Death List

The codes for the ICD-10 List of 113 Selected Causes of Death (used for deaths of all ages) are included on the CMF (Table 8). This tabulation list is the ICD-10 equivalent of the ICD-9 72-cause list. All of the ICD-10 tabulation lists are published in the NCHS Instruction Manual, Part 9, ICD-10 Cause-of-Death Lists for Tabulating Mortality Statistics, Effective 1999 **(40)**.

Several changes have been made to the 113 list. In 2006, “Essential (primary) hypertension and hypertensive renal disease” was changed to “Essential hypertension and hypertensive renal disease” to reflect the addition of the new ICD-10 underlying cause-of-death code, I15 (Secondary hypertension) **(8)**. In 2007, several changes were made to the 113 causes of death list to reflect the addition of the new codes. With the addition of new ICD-10 code J09, Influenza due to identified avian influenza virus, ICD-10 codes were changed from J10-J18 to J09-J18 for “Influenza and pneumonia, and from J10-J11 to J09-J11 for “Influenza.” With the addition of new ICD-10 code U04.9, Severe acute respiratory syndrome [SARS], ICD-10 codes were changed from J20-J22 to J20-J22,U04 for “Other acute lower respiratory infections”. Also, category title “Unspecified acute lower respiratory infection” was changed to “Other and unspecified acute lower respiratory infections” and the codes for this cause were changed from J22 to J22,U04 **(9)**.

Table 8. Tenth Revision 113 selected causes of death list, adapted by NCHS

Code			
113	limited <sup>1</sup>		
Recode	Sex	Age	ICD-10 cause-of-death title and codes
001			Salmonella infections (A01-A02)
002			Shigellosis and amebiasis (A03,A06)
003			Certain other intestinal infections (A04,A07-A09)
<b>004*</b>			<b>Tuberculosis (A16-A19)</b>
005			Respiratory tuberculosis (A16)
006			Other tuberculosis (A17-A19)
007			Whooping cough (A37)
008			Scarlet fever and erysipelas (A38,A46)
009			Meningococcal infection (A39)
010	3		Septicemia (A40-A41)
011			Syphilis (A50-A53)
012			Acute poliomyelitis (A80)
013			Arthropod-borne viral encephalitis (A83-A84,A85.2)
014			Measles (B05)
015			Viral hepatitis (B15-B19)
016			Human immunodeficiency virus (HIV) disease (B20-B24)
017			Malaria (B50-B54)
018			Other and unspecified infectious and parasitic diseases and their sequella (A00,A05,A20-A36,A42-A44,A48-A49,A54-A79,A81-A82, A85.0-A85.1,A85.8,A86-B04,B06-B09,B25-B49,B55-B99)
<b>019*</b>			<b>Malignant neoplasms (C00-C97)</b>
020			Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
021			Malignant neoplasm of esophagus (C15)
022			Malignant neoplasm of stomach (C16)
023			Malignant neoplasms of colon, rectum and anus (C18-C21)
024			Malignant neoplasms of liver and intrahepatic bile ducts (C22)
025			Malignant neoplasm of pancreas (C25)
026			Malignant neoplasm of larynx (C32)
027			Malignant neoplasms of trachea, bronchus and lung (C33-C34)
028			Malignant melanoma of skin (C43)
029			Malignant neoplasm of breast (C50)
030	F		Malignant neoplasm of cervix uteri (C53)
031	F		Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)
032	F		Malignant neoplasm of ovary (C56)
033	M		Malignant neoplasm of prostate (C61)
034			Malignant neoplasms of kidney and renal pelvis (C64-C65)
035			Malignant neoplasm of bladder (C67)
036			Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)

Table 8 (contd.). Tenth Revision 113 selected causes of death list, adapted by NCHS

Code limited	Sex	Age	ICD-10 Cause-of-death Title and Codes
<b>037*</b>			<b>Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)</b>
038			Hodgkin's disease (C81)
039			Non-Hodgkin's lymphoma (C82-C85)
040			Leukemia (C91-C95)
041			Multiple myeloma and immunoproliferative neoplasms (C88,C90)
042			Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)
043			All other and unspecified malignant neoplasms (C17,C23-C24, C26-C31, C37-C41, C44-C49,C51-C52,C57-C60,C62-C63, C66,C68-C69,C73-C80, C97)
044			In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
045			Anemias (D50-D64)
046	3		Diabetes mellitus (E10-E14)
<b>047*</b>			<b>Nutritional deficiencies (E40-E64)</b>
048			Malnutrition (E40-E46)
049			Other nutritional deficiencies (E50-E64)
050			Meningitis (G00,G03)
051			Parkinson's disease (G20-G21)
052			Alzheimer's disease (G30)
<b>053*</b>			<b>Major cardiovascular diseases (100-178)</b>
<b>054*</b>			<b>Diseases of heart (100-109,111,113,120-151)</b>
055			Acute rheumatic fever and chronic rheumatic heart diseases (100-109)
056			Hypertensive heart disease (111)
057			Hypertensive heart and renal disease (113)
<b>058*</b>			<b>Ischemic heart diseases (120-125)</b>
059			Acute myocardial infarction (121-122)
060			Other acute ischemic heart diseases (124)
<b>061*</b>			<b>Other forms of chronic ischemic heart disease (120,125)</b>
062			Atherosclerotic cardiovascular disease, so described (125.0)
063			All other forms of chronic ischemic heart disease (120,125.1-125.9)
<b>064*</b>			<b>Other heart diseases (126-151)</b>
065			Acute and subacute endocarditis (133)
066			Diseases of pericardium and acute myocarditis (130-131,140)
067			Heart failure (150)
068			All other forms of heart disease (126-128,134-138,142-149,151)
069			Essential (primary) hypertension and hypertensive renal disease (110,112) (title and codes for 1999-2005) Essential hypertension and hypertensive renal disease (110,112,115) (title and codes for 2006 and later)
070			Cerebrovascular diseases (160-169)
071			Atherosclerosis (170)
<b>072*</b>			<b>Other diseases of circulatory system (171-178)</b>

Table 8 (contd.). Tenth Revision 113 selected causes of death list, adapted by NCHS

Code		
113	limited	
Recode	Sex	Age
ICD-10	Case-of-death	Title and Codes
073		Aortic aneurysm and dissection (171)
074		Other diseases of arteries, arterioles and capillaries (172-178)
075		Other disorders of circulatory system (180-199)
<b>076*</b>		<b>Influenza and pneumonia (codes for 1999-2006: J10-J18, for 2007 and later: J09-J18)</b>
077		Influenza (codes for 1999-2006: J10-J11, codes for 2007 and later: J09-J11)
078		Pneumonia (J12-J18)
<b>079*</b>		<b>Other acute lower respiratory infections (codes for 1999-2006: J20-J22, for 2007 and later: J20-J22, U04)</b>
080		Acute bronchitis and bronchiolitis (J20-J21)
081		Unspecified acute lower respiratory infection (codes for 1999-2006: J22) Other and unspecified acute lower respiratory infection (title and codes for 2007 and later: J22, U04)
<b>082*</b>		<b>Chronic lower respiratory diseases (J40-J47)</b>
083		Bronchitis, chronic and unspecified (J40-J42)
084	3	Emphysema (J43)
085		Asthma (J45-J46)
086		Other chronic lower respiratory diseases (J44,J47)
087		Pneumoconiosis and chemical effects (J60-J66,J68)
088		Pneumonitis due to solids and liquids (J69)
089		Other diseases of respiratory system J00-J06,J30-J39,J67,J70-J98)
090		Peptic ulcer (K25-K28)
091		Diseases of appendix (K35-K38)
092		Hernia (K40-K46)
<b>093*</b>		<b>Chronic liver disease and cirrhosis (K70,K73-K74)</b>
094		Alcoholic liver disease (K70)
095		Other chronic liver disease and cirrhosis (K73-K74)
096		Cholelithiasis and other disorders of gallbladder (K80-K82)
<b>097*</b>		<b>Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)</b>
098		Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01, N04)
099		Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03, N05-N07,N26)
100		Renal failure (N17-N19)
101		Other disorders of kidney (N25,N27)
102		Infections of kidney (N10-N12,N13.6,N15.1)
103	M	Hyperplasia of prostate (N40)
104	F	Inflammatory diseases of female pelvic organs (N70-N76)
<b>105*</b>	F 2	<b>Pregnancy, childbirth and the puerperium (O00-O99)</b>
106	F 2	Pregnancy with abortive outcome (O00-O07)
107	F 2	Other complications of pregnancy, childbirth and the puerperium (O10-O99)
108		Certain conditions originating in the perinatal period (P00-P96)
109		Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
110		Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)

Table 8 (contd.). Tenth Revision 113 selected causes of death list, adapted by NCHS

Code	
113	limited
Recode Sex Age ICD-10 Cause-of-death Title and Codes	
111	All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12, G23-G25,G31-H93,K00-K22,K29-K31,K50-K66,K71-K72, K75-K76, K83-M99,N13.0-N13.5,N13.7-N13.9,N14,N15.0, N15.8-N15.9, N20-N23, N28-N39,N41-N64,N80-N98)
<b>112*</b>	<b>Accidents (unintentional injuries) (V01-X59,Y85-Y86)</b>
<b>113*</b>	<b>Transport accidents (V01-V99,Y85)</b>
114	Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14, V19.0-V19.2,V19.4-V19.6, V20-V79, V80.3-V80.5,V81.0-V81.1, V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)
115	Other land transport accidents V01,V05-V06,V09.1,V09.3-V09.9;; V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9 V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9)
116	Water, air and space, and other and unspecified transport accidents and their sequella (V90-V99,Y85)
<b>117*</b>	<b>Nontransport accidents (W00-X59,Y86)</b>
118	Falls (W00-W19)
119	Accidental discharge of firearms (W32-W34)
120	Accidental drowning and submersion (W65-W74)
121	Accidental exposure to smoke, fire and flames (X00-X09)
122	Accidental poisoning and exposure to noxious substances (X40-X49)
123	Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)
<b>124*</b>	<b>Intentional self-harm (suicide) (U03,X60-X84,Y87.0)</b>
125	Intentional self-harm (suicide) by discharge of firearms (X72-X74)
126	Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60-X71,X75-X84,Y87.0)
<b>127*</b>	<b>Assault (homicide) (*U01.0-*U01.-*U01.9,*U02,X85-Y09,Y87.1)</b>
128	Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
129	Assault (homicide) by other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)
130	Legal intervention (Y35,Y89.0)
<b>131*</b>	<b>Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)</b>
132	Discharge of firearms, undetermined intent (Y22-Y24)
133	Other and unspecified events of undetermined intent and their sequella(Y10-Y21,Y25-Y34,Y87.2,Y89.9)
134	Operations of war and their sequelae (Y36,Y89.1)
135	Complications of medical and surgical care (Y40-Y84,Y88)

\*This code is not on the file. The subcodes for this category are on the file.

<sup>1</sup>The use of some 113-cause codes is limited to a particular sex and/or age group, as indicated: Sex limited: M=limited to males, F=limited to females

Age limited: 1=limited to ages 5 and over; 2 = limited to ages 10-54;

3 = limited to ages 28 days and over

## APPENDIX B

### Comparability between ICD-9 and ICD-10 for Mortality

In the United States, ICD-10 replaced ICD-9 beginning with the 1999 data year. ICD-10 differs from ICD-9 in many ways, including considerably greater detail; shifts of inclusion terms and titles from one category, section, or chapter to another; regroupings of diseases; new titles and sections; and modifications in coding rules (12, 12). As a result, serious breaks occur in comparability for a number of causes of death. Measures of this discontinuity (usually comparability ratios) are essential to the interpretation of mortality trends. A comparability ratio is used to adjust mortality statistics for a selected cause of death classified by the previous ICD to be comparable to those for the same cause classified by the new revision. The ratio is calculated by dividing the number of deaths for a selected cause of death classified by the new revision by the number of deaths classified to the most nearly comparable cause of death by the previous revision. A comparability ratio of 1.00 indicates that the same number of deaths was assigned to a particular cause or combination of causes whether the Ninth or Tenth Revision was used. A ratio showing perfect correspondence (1.00) between the two revisions does not necessarily indicate that the cause was unaffected by changes in classification and coding procedures but merely that there was no net change. A ratio of less than 1.00 results from a decrease in assignments of death to a cause in ICD-10 compared with ICD-9. A ratio of more than 1.00 results from an increase in assignments of deaths to a cause in ICD-10 compared with the comparable ICD-9 cause. Table 9 shows the comparability ratios for the 113 cause-of-death list.

For further explanation of comparability issues and a description of the comparability study for ICD-9 to ICD-10 refer to the report, *Comparability of cause of death between ICD-9 and ICD-10: Preliminary estimates* (13).

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	95 percent confidence limits		
			Tenth Revision	Ninth Revision			Relative Std error	Lower	Upper
Salmonella infections.....	A01-A02	002-003	30	37	0.810	0.068	7.9	0.6846	0.9370
.....			*	*	*	*	*	*	*
Shigellosis and amebiasis.....	A03,A06	004,006	*	*	*	*	*	*	*
.....			*	*	*	*	*	*	*
Certain other intestinal infections.....	A04,A07-A09	007-009	*	*	*	*	*	*	*
Tuberculosis.....	A16-A19	010-018	653	764	0.854	0.017	2.0	0.8209	0.8885
.....									
Respiratory tuberculosis.....	A16	010-012	518	572	0.905	0.026	2.2	0.8662	0.9450
.....									

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Std error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Other tuberculosis.....	A17-A19	013-018	135	192	0.703	0.0407	5.8	0.6	0.7
Whooping cough.....	A37	033	*	*	*	*	*	*	*
Scarlet fever and erysipelas.....	A38,A46	034.1-035	*	*	*	*	*	*	*
Meningococcal infection.....	A39	036	221	222	0.995	0.015	1.5	0.9	1.0
Septicemia.....	A40-A41	038	21,258	17,791	1.194	0.0042	0.3	1.1	1.2
Syphilis.....	A50-A53	090-097	21	33	0.636	0.114	18.6	0.4	0.8
Acute poliomyelitis.....	A80	045	*	*	*	*	*	*	*
Arthropod-borne viral encephalitis.....	A83-A84,A85.2	062-064	*	*	*	*	*	*	*
Measles.....	B05	055	*	*	*	*	*	*	*
Viral hepatitis.....	B15-B19	070	1,123	1,346	0.834	0.013	1.4	0.8	0.8
Human immunodeficiency virus (HIV) disease.....	B20-B24	*042-*044	12,765	11,150	1.144	0.008	0.4	1.1	1.1
Malaria.....	B50-B54	084	*	*	*	*	*	*	*
Other and unspecified infectious and parasitic diseases									
And their sequelae.....	A00,A05,A20-A36,A42-A44,	001,005,020-032,037,039-041,							
	A48-A49,A54-A79,A81-A82,A85.0-A85.1,A85.8,A86-B04	046-054,056-061							
	B06-B09,B25-B49,B55-B99	065-066,071-083,085-088,							
Malignant neoplasms.....	C00-C97	098-134,136-139,771.3	2,865	2,607	1.099	0.010	1.4	1.0	1.1
Malignant neoplasms of lip, oral cavity and pharynx.....	C00-C14	140-208	464,688	461,544	1.006	0.008	0.0	1.0	1.0
Malignant neoplasm of esophagus.....	C15	140-149	5,927	6,172	0.960	0.003	0.4	0.9	0.9
Malignant neoplasm of stomach.....	C16	150	9,596	9,630	0.996	0.005	0.2	0.9	1.0
Malignant neoplasms of colon, rectum and anus.....	C18-C21	151	11,480	11,408	1.006	0.003	0.2	1.0	1.0
Malignant neoplasms of liver and intrahepatic bile ducts..	C22	153-154	48,583	48,619	0.999	0.003	0.1	0.9	1.0
Malignant neoplasm of pancreas.....	C25	155	9,732	10,102	0.963	0.004	0.2	0.9	0.9
Malignant neoplasm of larynx.....	C32	157	24,313	24,361	0.998	0.001	0.1	0.9	0.9
Malignant neoplasms of trachea, bronchus and lung.....	C33-C34	161	3,209	3,194	1.004	0.007	0.5	0.9	1.0
		162	131,750	133,936	0.983	0.007	0.1	0.9	0.9

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Std error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Malignant melanoma of skin.....	C43	172	5,941	6,139	0.967	0.00	0.3	0.9	0.9
Malignant neoplasm of breast.....	C50	174-175	38,102	37,891	1.005	0.00	0.1	1.0	1.0
Malignant neoplasm of cervix uteri.....	C53	180	3,753	3,802	0.987	0.00	0.3	0.9	0.9
Malignant neoplasms of corpus uteri and uterus, Part unspecified.....	C54-C55	179,182	5,318	5,183	1.026	0.00	0.4	1.0	1.0
Malignant neoplasm of ovary.....	C56	183.0	11,292	11,344	0.995	0.00	0.2	0.9	0.9
Malignant neoplasm of prostate.....	C61	185	30,672	30,267	1.013	0.00	0.1	1.0	1.0
Malignant neoplasms of kidney and renal pelvis.....	C64-C65	189.0,189.1	9,521	9,521	1.000	0.00	0.2	0.9	1.0
Malignant neoplasm of bladder.....	C67	188	9,563	9,594	0.996	0.00	0.3	0.9	1.0
Malignant neoplasms of meninges, brain and other parts of central nervous system.....	C70-C72	191-192	10,039	10,359	0.969	0.00	0.3	0.9	0.9
Malignant neoplasms of lymphoid, hematopoietic and related tissue.....	C81-C96	200-208	44,715	44,530	1.004	0.00	0.1	1.0	1.0
Hodgkin's disease.....	C81	201	1,021	1,036	0.985	0.00	0.9	0.9	1.0
Non-Hodgkin's lymphoma.....	C82-C85	200,202	17,924	18,326	0.978	0.00	0.2	0.9	0.9
Leukemia.....	C91-C95	204-208	16,600	16,405	1.011	0.00	0.2	1.0	1.0
Multiple myeloma and immunoproliferative neoplasms.....	C88,C90	203	9,099	8,763	1.038	0.00	0.3	1.0	1.0
Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue.....	C96	---	*	*	*	*	*	*	*
All other and unspecified malignant neoplasms.....	C17,C23-C24,C26-C31, C37-C41,C44-C49,C51-C52, C57-C60,C62-C63 C66,C68-C69,C73-C80,C97	152,156,158-160,163-171, 173,181,183.2-184, 186-187,189.2-190,193-199	51,182	45,492	1.125	0.00	0.2	1.1	1.1
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior.....	D00-D48	210-239	9,263	5,532	1.674	0.01	1.0	1.6	1.7
Anemias.....	D50-D64	280-285	3,059	3,200	0.955	0.00	0.8	0.9	0.9
Diabetes mellitus.....	E10-E14	250	48,636	48,242	1.008	0.00	0.1	1.0	1.0
Nutritional deficiencies.....	E40-E64	260-269	3,215	2,763	1.163	0.01	1.4	1.1	1.1

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Standard error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Malnutrition	E40-E46	260-263	2,607	2,665	0.978	0.01	1.5	0.9	1.0
.....					2	51		487	078
Other nutritional deficiencies	E50-E64	264-269	608	98	6.204	0.59	9.6	5.0	7.3
.....					1	61		358	724
Meningitis	G00,G03	320-322	592	584	1.013	0.01	1.3	0.9	1.0
.....					7	36		871	403
Parkinson's disease	G20-G21	332	10,40	10,39	1.001	0.00	0.3	0.9	1.0
.....			4	2	2	28		956	067
Alzheimer's disease	G30	331.0	29,70	19,12	1.553	0.00	0.5	1.5	1.5
.....			7	1	6	71		398	675
Major cardiovascular diseases	I00-I78	390-434,436-448	796,9	798,4	0.998	0.00	0.0	0.9	0.9
.....			19	35	1	02		977	985
Diseases of heart	I00-I09,I11,I13,I20-I51	390-398,402,404,410-429	615,5	624,4	0.985	0.00	0.0	0.9	0.9
.....			64	05	8	02		854	863
Acute rheumatic fever and chronic rheumatic heart diseases	I00-I09	390-398	2,446	2,980	0.820	0.00	1.1	0.8	0.8
.....					8	89		034	382
Hypertensive heart disease	I11	402	17,32	21,57	0.802	0.00	0.3	0.7	0.8
.....			2	7	8	28		973	083
Hypertensive heart and renal disease	I13	404	2,170	2,027	1.070	0.01	1.5	1.0	1.1
.....					5	60		392	019
Ischemic heart diseases	I20-I25	410-414,429.2	466,4	466,9	0.999	0.00	0.0	0.9	0.9
.....			59	35	0	02		985	994
Acute myocardial infarction	I21-I22	410	178,1	180,1	0.988	0.00	0.0	0.9	0.9
.....			25	69	7	03		880	893
Other acute ischemic heart diseases	I24	411	2,667	2,638	1.011	0.01	1.2	0.9	1.0
.....					0	17		880	340
Other forms of chronic ischemic heart disease	I20,I25	412-414,429.2	285,6	284,1	1.005	0.00	0.0	1.0	1.0
.....			67	28	4	04		046	062
Atherosclerotic cardiovascular disease, so described	I25.0	429.2	64,35	61,36	1.048	0.00	0.2	1.0	1.0
.....			4	2	8	16		456	519
All other forms of chronic ischemic heart disease	I20,I25.1-I25.9	412-414	221,3	222,7	0.993	0.00	0.0	0.9	0.9
.....			13	66	5	04		927	942
Other heart diseases	I26-I51	415-429.1,429.3-429.9	127,1	130,8	0.971	0.00	0.1	0.9	0.9
.....			67	86	6	10		696	736
Acute and subacute endocarditis	I33	421	552	554	0.996	0.01	1.4	0.9	1.0
.....					4	37		695	233
Diseases of pericardium and acute myocarditis	I30-I31,I40	420,422-423	489	475	1.029	0.01	1.6	0.9	1.0
.....					5	60		981	608
Heart failure	I50	428	44,29	42,55	1.041	0.00	0.1	1.0	1.0
.....			7	4	0	13		384	435
All other forms of heart disease	I26-I28,I34-I38,I42-I49,I51	415-417,424-427,429.0-429.1,429.3-429.9	81,82	87,30	0.937	0.00	0.2	0.9	0.9
.....			9	3	3	14		345	401
Essential (primary) hypertension and hypertensive renal Disease	I10,I12	401,403	11,95	10,68	1.119	0.00	0.4	1.1	1.1
.....			8	4	2	50		094	291

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Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Standard error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Cerebrovascular diseases	I60-I69	430-434,436-438	137,264	129,640	1.0588	0.0008	0.10	1.00	1.00
Atherosclerosis	I70	440	13,894	14,417	0.9637	0.0025	0.30	0.90	0.90
Other diseases of circulatory system	I71-I78	441-448	18,239	19,289	0.9456	0.0021	0.20	0.90	0.90
Aortic aneurysm and dissection	I71	441	12,216	12,201	1.0012	0.0010	0.10	0.90	1.00
Other diseases of arteries, arterioles and capillaries.	I72-I78	442-448	6,023	7,088	0.8497	0.0053	0.60	0.80	0.80
Other disorders of circulatory system	I80-I99	451-459	2,984	2,899	1.0293	0.0037	1.70	0.90	1.00
Influenza and pneumonia	J10-J18	480-487	50,526	72,371	0.6982	0.0018	0.30	0.60	0.70
Influenza	J10-J11	487	572	567	1.0088	0.0073	0.70	0.90	1.00
Pneumonia	J12-J18	480-486	49,954	71,804	0.6957	0.0018	0.30	0.60	0.60
Other acute lower respiratory infections	J20-J22	466	346	355	0.9746	0.0092	4.00	0.80	1.00
Acute bronchitis and bronchiolitis	J20-J21	466	265	355	0.7465	0.0064	3.50	0.60	0.70
Unspecified acute lower respiratory infection	J22	---	*	*	*	*	*	*	*
Chronic lower respiratory diseases	J40-J47	490-494,496	94,326	90,022	1.0478	0.0009	0.10	1.00	1.00
Bronchitis, chronic and unspecified	J40-J42	490-491	913	2,320	0.3935	0.0007	2.70	0.30	0.40
Emphysema	J43	492	14,369	14,774	0.9726	0.0031	0.30	0.90	0.90
Asthma	J45-J46	493	4,217	4,718	0.8938	0.0061	0.70	0.80	0.90
Other chronic lower respiratory diseases	J44,J47	494,496	74,827	68,210	1.0970	0.0014	0.10	1.00	1.00
Pneumoconioses and chemical effects	J60-J66,J68	500-506	860	845	1.0178	0.0099	1.00	0.90	1.00
Pneumonitis due to solids and liquids	J69	507	10,183	9,104	1.1185	0.0048	0.40	1.10	1.10
Other diseases of respiratory system	J00-J06,J30-J39,J67,J70-J98	034.0,460-465,470-478,495,508-519	16,656	14,269	1.1673	0.0052	0.40	1.10	1.10
Peptic ulcer	K25-K28	531-534	3,574	3,686	0.9696	0.0045	0.50	0.90	0.90
Diseases of appendix	K35-K38	540-543	209	202	1.0347	0.0042	2.30	0.90	1.00
Hernia	K40-K46	550-553	658	633	1.0395	0.0054	1.50	1.00	1.00
Chronic liver disease and cirrhosis	K70,K73-K74	571	21,688	20,920	1.0367	0.0027	0.30	1.00	1.00
Alcoholic liver disease	K70	571.0-571.3	10,147	9,965	1.0183	0.0050	0.50	1.00	1.00
Other chronic liver disease and cirrhosis	K73-K74	571.4-571.9	11,541	10,955	1.0535	0.0041	0.40	1.00	1.00
Cholelithiasis and other disorders of	K80-K82	574-575	1,725	1,803	0.9560	0.0000	0.60	0.90	0.90

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Standard error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
gallbladder .....					7	60		450	685
Nephritis, nephrotic syndrome and nephrosis .....	N00-N07,N17-N19,N25-N27	580-589	24,939	20,242	1.2320	0.0044	0.4	1.2234	1.2407
Acute and rapidly progressive nephritic and nephrotic Syndrome .....	N00-N01,N04	580-581	161	249	0.6466	0.0342	5.3	0.5796	0.7136
Chronic glomerulonephritis, nephritis and nephropathy not Specified as acute or chronic, and renal sclerosis .....									
unspecified .....	N02-N03,N05-N07,N26	582-583,587	468	1,213	0.3858	0.0144	3.7	0.3575	0.4141
Renal failure .....	N17-N19	584-586	24,290	18,758	1.2949	0.0050	0.4	1.2852	1.3047
Other disorders of kidney .....	N25,N27	588-589	20	22	0.9091	0.0867	9.5	0.7392	1.0790
Infections of kidney .....	N10-N12,N13.6,N15.1	590	731	726	1.0069	0.0144	1.4	0.9786	1.0352
Hyperplasia of prostate .....	N40	600	326	327	0.9969	0.0159	1.6	0.9658	1.0280
Inflammatory diseases of female pelvic organs .....	N70-N76	614-616	63	64	0.9844	0.0410	4.2	0.9040	1.0648
Pregnancy, childbirth and the puerperium .....	O00-099	630-676	*	*	*	*	*	*	*
Pregnancy with abortive outcome .....	O00-O07	630-639	*	*	*	*	*	*	*
Other complications of pregnancy, childbirth and the puerperium .....	O10-O99	640-676	*	*	*	*	*	*	*
Certain conditions originating in the perinatal period .....	P00-P96	760-771.2,771.4-779	10,184	9,555	1.0658	0.0033	0.3	1.0593	1.0724
Congenital malformations, deformations and chromosomal Abnormalities .....	Q00-Q99	740-759	5,950	7,025	0.8470	0.0055	0.6	0.8362	0.8577
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified .....	R00-R99	780-799	16,940	17,732	0.9553	0.0034	0.4	0.9487	0.9620
All other diseases (Residual) .....	Residual	Residual	109,853	122,107	0.8996	0.0015	0.2	0.8968	0.9025
Accidents (unintentional injuries) .....	V01-X59,Y85-Y86	E800-E869,E880-E929	31,084	30,163	1.0305	0.0014	0.1	1.0278	1.0333
Transport accidents .....	V01-V99,Y85	E800-E848,E929.0,E929.1	17,547	17,586	0.9978	0.0006	0.1	0.9966	0.9990
Motor vehicle accidents .....	V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-								

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	Relative Standard error	95 percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Other land transport accidents	V86,V87.0-V87.8, V88.0-V88.8,V89.0,V89.2	E810-E825	16,632	17,051	0.9754	0.0006	0.1	0.9742	0.9766
Water, air and space, and other and unspecified transport accidents and their sequelae	V09.3-V09.9,V10-V11,V15-V18, V19.3,V19.8-V19.9,V80.0-V80.2, V80.6-V80.9,V81.2-V81.9,V82.2-V82.9, V87.8,V88.9,V89.1,V89.3,V89.9	E800-E807,E826-E829	*	*	*	*	*	*	*
Nontransport accidents	W00-X59, Y86	E830-E848,E929.0,E929.1	351	347	1.0115	0.0209	2.1	0.9706	1.0525
Falls	W00-W19	E850-E869,E880-E928,E929.2-E929.9	13,537	12,577	1.0763	0.0035	0.3	1.0696	1.0831
Accidental discharge of firearms	W32-W34	E880-E888	5,173	6,152	0.8409	0.0049	0.6	0.8313	0.8505
Accidental drowning and submersion	W65-W74	E922	493	466	1.0579	0.0127	1.2	1.0331	1.0828
Accidental exposure to smoke, fire and flames	X00-X09	E910	283	284	0.9965	0.0127	1.3	0.9716	1.0213
Accidental poisoning and exposure to noxious substances	X40-X49	E890-E899	493	506	0.9743	0.0089	0.9	0.9568	0.9918
Other and unspecified nontransport accidents and their sequelae	W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86	E850-E869,E924.1	*	*	*	*	*	*	*
Intentional self-harm (suicide)	X60-X84, Y87.0	E900-E909,E911-E921,E923-E924.0,E924.8-E928,E929.2-E929.9	6,698	4,721	1.4188	0.0123	0.9	1.3947	1.4428
Intentional self-harm (suicide) by discharge of firearms	X72-X74	E950-E959	18,352	18,422	0.9962	0.0005	0.0	0.9952	0.9972
Intentional self-harm (suicide) by other and unspecified means and their sequelae	X60-X71,X75-X84, Y87.0	E955.0-E955.4	14,157	14,183	0.9982	0.0007	0.1	0.9968	0.9996
Assault (homicide)	X85-Y09, Y87.1	E950-E954,E955.5-E959	4,195	4,239	0.9896	0.0023	0.2	0.9850	0.9942
Assault (homicide) by discharge of firearms	X93-X95	E960-E969	12,287	12,308	0.9983	0.0006	0.1	0.9972	0.9994
Assault (homicide) by other and unspecified means and their sequelae	X85-X92,X96-Y09, Y87.1	E965.0-E965.4	8,718	8,745	0.9969	0.0008	0.1	0.9953	0.9985
Legal intervention	Y35, Y89.0	E960-E964,E965.5-E969	3,569	3,563	1.0017	0.0024	0.2	0.9969	1.0064
		E970-E978	*	*	*	*	*	*	*

**Table 9. Comparable category codes and estimated comparability ratios for 113 selected causes of death, Injury by firearms, Drug-induced deaths and Alcohol-induced deaths according to the Ninth and Tenth Revisions, International Classification of Diseases**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Number of deaths allocated according to:		Estimated comparability ratio	Standard error	95 percent confidence limits		
			Tenth Revision	Ninth Revision			Relative Standard error	Lower	Upper
Events of undetermined intent	Y10-Y34,Y87.2,Y89.9	E980-E989	*	*	*	*	*	*	*
Discharge of firearms, undetermined intent	Y22-Y24	E985.0-E985.4	*	*	*	*	*	*	*
Other and unspecified events of undetermined intent and their sequelae	Y10-Y21,Y25-Y34,Y87.2,Y89.9	E980-E984,E985.5-E989	*	*	*	*	*	*	*
Operations of war and their sequelae	Y36,Y89.1	E990-E999	*	*	*	*	*	*	*
Complications of medical and surgical care	Y40-Y84,Y88	E870-E879,E930-E949	*	*	*	*	*	*	*
Injury by firearms (1)	W32-W34,X72-X74,X93-X95, Y22-Y24,Y35.0	E922,E955.0-E955.4,E965.0-E965.4	23,355	23,418	0.9973	0.0006	0.1	0.9961	0.9985
Drug-induced deaths (1)	F11.0-F11.5,F11.7-F11.9, F12.0-F12.5,F12.7-F12.9, F13.0-F13.5,F13.7-F13.9, F14.0-F14.5,F14.7-F14.9, F15.0-F15.5,F15.7-F15.9, F16.0-F16.5,F16.7-F16.9, F17.0,F17.3-F17.5,F17.7-F17.9, F18.0-F18.5,F18.7-F18.9, F19.0-F19.5,F19.7-F19.9, X40-X44,X60-X65,X85,Y10-Y14	292,304,305.2-305.9,E850-E858,E950.0-E950.5,E962.0,E980.0-E980.5	1,158	969	1.195	0.025	1.9	1.1509	1.2391
Alcohol-induced deaths (1)	F10,G31.2,G62.1,I42.6,K29.2, K70,R78.0,X45,X65,Y15	291,303,305.0,357.5,425.5,535.3,571.0-571.3,790.3,E860	14,783	15,269	0.9682	0.0025	0.3	0.9633	0.9731

\* Figure does not meet standards of reliability or precision; see Technical notes.

--- Category not applicable.

0.0 Quantity more than zero but less than 0.05.

(1) Included in selected categories.

## APPENDIX C Computation of Rates

The principal value of vital statistics data is realized through the presentation of rates, which are computed by relating the vital events of a class to the population of a similarly defined class. Vital statistics and population statistics must therefore be

classified according to similarly defined systems and tabulated in comparable groups. Even when the variables common to both, such as geographic area, age, sex, and race, have been similarly classified and tabulated, differences between the enumeration method of obtaining population data and the registration method of obtaining vital statistics data may result in significant discrepancies.

Death rates are computed by dividing the number of deaths for a given class by the population of a similarly-defined class for the same year(s) and multiplying the result by 100,000 (or 1,000). Rates thus computed are per 100,000 (or 1,000) estimated population residing in a selected area of the United States. Except for infant and maternal mortality rates, the population used for computing rates is the resident population of the specified geographic area. **Infant mortality rates**, the most commonly used indexes for measuring the risk of dying during the first year of life, are calculated by dividing the number of infant deaths in a calendar year by the number of live births registered for the same period and are presented as rates per 1,000 or per 100,000 live births. Infant mortality rates use the number of live births in the denominator to approximate the population at risk of dying before the first birthday. **Maternal mortality rates** are calculated by dividing the number of maternal deaths in a calendar year by the number of live births registered for the same period and are presented as rates per 100,000 live births. The number of live births used in the denominator is an approximation of the population of pregnant women who are at risk of a maternal death.

The numbers of deaths reported for a community represent complete counts of such events. As such, they are not subject to sampling error, although they are subject to errors in the registration process. However, the number of deaths, even based on complete counts, is subject to random variation. Thus, the number of deaths that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances (41, 42). To quantify the random variation associated with mortality statistics, it is usually assumed that as deaths are infrequent events, they derive from a Poisson probability distribution. The Poisson distribution is simple conceptually and computationally, and provides reasonable, conservative variance estimates for mortality statistics when the probability of dying is relatively low (42).

Generally, it is assumed that the national, State, and county population estimates are based on demographic methods, and as such, are not subject to sampling variability, although they are subject to nonsampling errors. However, this assumption does not hold for the bridged-race population estimates (36).

When the number of deaths is small (perhaps less than 100), random variation tends to be relatively large. Therefore, considerable caution must be observed in interpreting statistics based on small numbers of deaths. This is particularly true for infant mortality rates, cause-specific death rates, and death rates for counties. NCHS suppresses crude and age-specific death rates that are based on fewer than 20 deaths. The limit of 20 deaths is a convenient, if somewhat arbitrary, benchmark, below which rates are considered to be too statistically unreliable for presentation. For age-adjusted death rates the suppression criterion is based on the sum of the age-specific deaths; i.e., if the sum of the age-specific deaths is less than 20, the rate is suppressed.

Formulas for the standard errors and confidence intervals of death rates, as well as for tests of differences between rates are provided in the Technical Notes in the annual National Vital Statistics Reports *Deaths: Final Data (1-11)*. Note that the approach used to calculate standard errors and confidence intervals when the number of deaths is fewer than 100 (which is often the case when working with counties) differs from that used when the number of deaths is 100 or greater.

### Age-adjustment of death rates

Age-adjusted death rates are weighted averages of the age-specific death rates, where the weights represent a fixed population by age. They are used to compare relative mortality risk among groups and over time. An age-adjusted rate represents the rate that would have existed had the age-specific rates of the particular year prevailed in a population whose age distribution was the same as that of the fixed population. Age-adjusted rates should be viewed as relative indexes rather than as direct or actual measures of mortality risk.

NCHS computes age-adjusted death rates by the direct method, that is, by applying age-specific death rates ( $R_i$ ) to the U.S. standard population age distribution:

$$R' = \sum_i \left( \frac{P_{si}}{P_s} \right) R_i$$

where  $P_{si}$  is the standard population for age group  $i$  and  $P_s$  is the total U.S. standard population (all ages combined).

Beginning with the 1999 data year, NCHS adopted a new population standard for use in age-adjusting death rates based on the year 2000 projected population of the United States. For a detailed discussion of the impact of the new standard, see *Age Standardization of Death Rates. Implementation of the Year 2000 Standard (43)*. Traditionally, the standard population has been scaled so that the age-specific counts summed to one million (referred to as the standard million population) and weights for use in age-adjustment have been computed from this standard million population (and rounded to six decimal places). Beginning with the 2003 data year, the traditional standard million population along with the corresponding standard weights to six decimal places were replaced by the projected year 2000 population age distribution (**Table 10**). The effect of the change is negligible and does not significantly affect comparability with age-adjusted rates calculated using the previous method.

Table 10. U.S. Standard Population

Age	Population
All ages	274,633,642
Under 1 year	3,794,901
1-4 years	15,191,619
5-14 years	39,976,619
15-24 years	38,076,743
25-34 years	37,233,437
35-44 years	44,659,185
45-54 years	37,030,152
55-64 years	23,961,506
65-74 years	18,135,514
75-84 years	12,314,793
85 years and over	4,259,173

Note: Projected 2000 population.

## **APPENDIX D**

### **More about Population Estimates**

General information about population estimates is provided below.

#### **Resident Population**

The resident population includes all persons whose usual place of residence (i.e., the place where one usually lives and sleeps) is in one of the 50 States or the District of Columbia. It includes members of the Armed Forces stationed in the United States and their families; but excludes U.S. Armed Forces stationed overseas. Also excluded are Americans living abroad.

#### **Decennial Census**

The census of population (decennial census) has been held in the United States every 10 years since 1790. The decennial census has enumerated the resident population as of April 1 of the census year ever since 1930. Data on sex, race, age, Hispanic origin, and marital status are collected from 100% of the enumerated population.

#### **Race Data on the 1990 Census**

The question on race on the 1990 census was based on the Office of Management and Budget's (OMB) "1977 Statistical Policy Directive 15, Race and Ethnicity Standards for Federal Statistics and Administrative Reporting" (14). This document specified rules for the collection, tabulation, and reporting of race and ethnicity data within the federal statistical system. The 1977 standards required federal agencies to report race-specific tabulations using four single-race categories: American Indian or Alaska Native, Asian or Pacific Islander, Black, and White. Under the 1977 standards, race and ethnicity (Hispanic or Latino origin, not of Hispanic or Latino origin) were considered to be two separate and distinct concepts. Thus, persons of Hispanic origin may be of any race.

#### **Race Data on the 2000 Census**

The question on race on the 2000 census was based on OMB's 1997 "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity" (15). The 1997 standards incorporated two major changes in the collection, tabulation, and presentation of race data. First, the 1997 standards increase from four to five the minimum number of categories to be used by Federal agencies for identification of race: American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White. Second, the 1997 standards require Federal data collection programs to allow respondents to select one or more race categories when responding to a query on their racial identity. This provision means that there are

potentially 31 race groups, depending on whether an individual selects one, two, three, four, or all five of the race categories. Under the 1997 standards, as under the 1977 standards, Hispanics may be of any race.

In Census 2000, respondents could indicate their racial identity by marking one or more of six race categories: the five categories specified in the 1997 standards and one additional category, namely, "Some other race". Space was provided on the questionnaire for respondents who marked "Some other race" to write in their race. Because respondents could report one or more of the six categories, Census 2000 had data for 63 race groups. Of the 281,421,906 persons enumerated in the 2000 census, roughly 6.8 million, or 1.4%, reported more than one of the six race categories (where one of the categories is "Some other race"). Roughly 18.5 million people identified "Some other race" as part of their race response, or as their only race response. These people were primarily of Hispanic origin, 90.4 percent or 16.8 million people, and many wrote in their Hispanic or Latino origin or Hispanic origin type (such as Mexican or Puerto Rican) as their race. Note that persons with Hispanic origin not stated on the census have their Hispanic origin imputed by the Census Bureau.

### **Modified Decennial Census Files**

For several decades the Census Bureau has produced modified decennial census files. These modified files incorporate adjustments to the 100% April 1 count data for 1) errors in the census data discovered subsequent to publication, 2) misreported age data, and 3) nonspecified race.

For the 1990 census, the Census Bureau modified the age, race, and sex data on the census and produced the Modified Age Race Sex (MARS) file (44). The differences between the population counts on the original census file and the MARS file are primarily due to modification of the race data. Of the 248.7 million persons enumerated in 1990, 9.8 million persons did not specify their race (over 95% were of Hispanic origin). For the 1990 MARS file, these persons were assigned the race reported by a nearby person with an identical response to the Hispanic origin question.

For the 2000 census, the Census Bureau modified the race data on the census and produced the Modified Race Data Summary File (37). Of the 281,421,906 persons enumerated during the 2000 census, 18.5 million persons reported "Some other race" as part of their race response, or did not specify a race (16.8 million, or 90.4%, were of Hispanic origin). For the Modified Race Data Summary File, persons who reported "Some other race" and one or more of the five single-race categories were assigned to the race group specified by the race category(ies) provided (the 31 single- and multiple-race combinations of the five race categories specified in the 1997 standards). Persons who did not specify a race were assigned to one of the 31 race groups using imputation.

The race modifications made for the Modified Race Data Summary File were as follows:

1. No modification was made to race responses where only one or more of the five single-race categories was specified (e.g., Asian alone, American

Indian or Alaska Native alone, Black or African American and White alone, and White alone).

2. Race responses of both “Some other race” and one or more of the five single-race categories were modified by dropping the "Some other race" response and using the single-race category(ies) response that was provided. For example, White and “Some other race” became White alone; Black or African American, White, and “Some other race” became Black or African American and White.
3. A race response of “Some other race” alone was modified by dropping the “Some other race” response and allocating a race group from the 31 race groups using imputation. Donors and recipients had to match on specific Hispanic or Latino origin (Not Hispanic or Latino; Mexican; Puerto Rican; Cuban; Central American and Dominican; South American; other Spanish). If possible, race was allocated from a donor within the household of the recipient; otherwise, the donor was selected from a hot deck matrix.

For within household allocation, the household donors were permitted to have a race and Hispanic origin that had been allocated or edited as part of the Census 2000 edit procedures. The household donor was also permitted to have a race that was modified. Within-household allocations were consistent with the household relationship guidelines used in Census 2000 procedures.

For race allocations from outside the household (using the hot deck matrix), donors could not have a race or Hispanic origin that had been allocated or edited as part of the Census 2000 procedures. These out-of-household donors also could not have a race that had been modified. Out-of-household donors were permitted to have an edited age but had to be in the same broad age range (0-14 years, 15-34 years, 35-54 years, 55 years and over) as the recipient. Hot deck guidelines were consistent with the Census 2000 procedures.

Note that while the race modification in the Modified Race Data Summary File reconciles the Census 2000 race categories with the race categories in the 1997 standards, it does not correct or adjust the Census 2000 procedures for tabulating or coding race data, nor correct for undercoverage or duplication of persons in Census 2000.

### **Bridged-Race Population Estimates for Census 2000**

Race data on the 2000 census are not comparable with historical data (e.g. previous censuses, administrative records, surveys, vital records) or with race data on other data systems that are continuing to collect data using the 1977 standards on race and ethnicity during the transition to full implementation of the 1997 standards (14, 15). One example of a data system continuing to collect data using the old standards is the Vital Statistics Cooperative Program. To date, many States have not yet implemented the revised 2003 Standard Certificate of Death (which collects race data in accordance with

the 1997 standards). Thus, population estimates for 2000 and beyond with race categories comparable to the 1977 categories are needed so that race-specific birth and death rates can be calculated. To meet this need, NCHS, in collaboration with the U.S. Census Bureau, developed methodology to “bridge” the 31 race groups in Census 2000 to the four single-race categories specified under the 1977 standards (19, 36, 37). Race bridging refers to making data collected using one set of race categories consistent with data collected using a different set of race categories to permit calculation of statistics at a point in time or over time. More specifically, race bridging is a method used to make multiple-race and single-race data collection systems sufficiently comparable to permit estimation and analysis of race-specific statistics such as birth and death rates. When bridging group data rather than individual data, the goal is to correctly determine the size of the single-race groups, not to correctly determine how each individual would have reported his or her race under a single-race system.

NCHS developed a regression bridging methodology using information from the 1997-2000 National Health Interview Survey (NHIS) (18, 36, 37). The NHIS provides a unique bridging data source because, since 1982, NHIS respondents have been permitted to choose more than one race, with respondents who do so then asked the follow-up question “which single race best represents your race.” The bridging methodology involved fitting logistic and multi-logit regression models which included person-level and county-level covariates. Each model estimated the probability that members of a multiple-race group would select each possible single-race category. The probabilities obtained from the bridging models were specific for sex, Hispanic origin, single year of age, and county of residence.

The bridging probabilities derived from the models have been applied by the U.S. Census Bureau to the Census 2000 Modified Race Data Summary File, to the intercensal estimates for the 1990s, and to post--2000 population estimates to produce estimates of the population by four single-race categories (American Indian or Alaska Native, Asian or Pacific Islander, Black, and white) (21-31). Bridged-race population estimates are available from: [http://www.cdc.gov/nchs/nvss/bridged\\_race.htm](http://www.cdc.gov/nchs/nvss/bridged_race.htm).

## Postcensal Population Estimates

Postcensal population estimates are estimates made for the years following a census, before the next census has been taken. The U.S. Census Bureau derives series of county-level postcensal population estimates annually by updating the resident population enumerated in the decennial census using a components of population change approach. Each annual series includes estimates for the current data year and revised estimates for the earlier years in the decade. The following formula is used to derive the estimates for a given year from those for the previous year, starting with the decennial census population as the base:

- (1) resident population for the previous year
- (2) + births to U.S. resident women,
- (3) – deaths to U.S. residents,
- (4) + net international migration,
- (5) + net internal migration.

Estimates for the earlier years in a given series often differ from the estimates for those years in previous series because they have been revised to reflect changes in the components of change data sets. For example, births to U.S. resident women from a preliminary natality file are replaced with counts from a final natality file. To help users keep track of which postcensal estimate is being used, each annual series is referred to as a “Vintage” and the last year in the series is used to name the series. For example, the Vintage 2001 postcensal series has estimates for April 1, 2000 and July 1, 2001, and the Vintage 2002 postcensal series has estimates for April 1, 2000, July 1, 2001, and July 1, 2002. The estimates for July 1, 2001, from the two postcensal series differ.

The Census Bureau has produced the 2000-based postcensal series by applying the components of change methodology to the Modified Race Data Summary File (44). These series of postcensal estimates have race data for 31 race groups, in accordance with the 1997 race and ethnicity standards. So that the race data for 2000-based postcensal estimates will be comparable with race data on vital records, the Census Bureau has applied the NCHS bridging probabilities to each 31-race group postcensal series of population estimates to obtain bridged-race postcensal estimates (estimates for the four single-race categories: American Indian or Alaska Native, Asian or Pacific Islander, Black, and White) (23-31). Bridged-race postcensal population estimates are available from: [http://www.cdc.gov/nchs/nvss/bridged\\_race.htm](http://www.cdc.gov/nchs/nvss/bridged_race.htm).

## **Intercensal Population Estimates**

Intercensal population estimates are estimates made for the years between two completed censuses which take into account the census at both the beginning and end of the decade. With the completion of the decennial census at the end of a decade, intercensal estimates for the preceding decade are prepared to replace the postcensal estimates. Replacement of the postcensal estimates with intercensal estimates is desirable because as the end of the decade approaches, the postcensal estimates become increasingly less accurate. The difference between the postcensal estimate of the population at the end of the decade and the census count for that date is called the “error of closure”. The “error of closure” for the 1990s was large, about 6.8 million.

To derive the intercensal estimates, the difference between the two census populations (the error of closure) is distributed over the decade and then applied to the postcensal population estimates. The difference is applied to the postcensal estimates so that the patterns of population change observed over the decade are preserved. The method used to distribute the error of closure across the 1990s is the same as the method that was used for the 1980s. The method produces an intercensal estimate as

a function of time and the postcensal estimates, using the following formula:

$$P_t = Q_t \left( \frac{P_{3653}}{Q_{3653}} \right)^{t_{-3653}}$$

Where,

t = time in (days) elapsed since April 1, 1990  
P<sub>t</sub> = population estimate at time t  
Q<sub>t</sub> = postcensal estimate at time t  
P<sub>3653</sub> = April 1, 2000 enumerated census count  
Q<sub>3653</sub> = April 1, 2000 postcensal estimate

Intercensal estimates for the 1990s with race data comparable to the 1977 standards have been derived so that vital rates for the 1990s could be revised to reflect Census 2000. Derivation of the intercensal population estimates for the 1990s was complicated by the incomparability of the race data on the 1990 and 2000 censuses as discussed above (see “Race Data on Census 1990” and “Race Data on Census 2000”). The Census Bureau derived race-specific intercensal population estimates in collaboration with NCHS (and with support from the National Cancer Institute). The 1990 MARS file was the beginning population base and the bridged-race April 1, 2000 file was the ending population base (22, 44) (see Bridged-race Population Estimates for Census 2000”.

## **APPENDIX E**

### **State and County FIPS Codes and Names**

Counties are considered to be the "first-order subdivisions" of each State, regardless of their local designation (county, parish, or borough). Washington, D.C.; the consolidated government of Columbus, Georgia; the independent cities of the States of Maryland, Missouri, Nevada, and Virginia; the boroughs and census areas of Alaska; and that part of Yellowstone Park in Montana are identified as county equivalents.

Beginning in 1968, the National Institute of Standards and Technology, U.S. Department of Commerce established the Federal Information Processing Standards (FIPS), a set of names and codes for counties and county equivalents of the 50 States and the District of Columbia (45). Use of this standardized set of numeric or alphabetic codes ensured uniform identification of States and counties/county equivalents throughout federal agencies. Recently, the American National Standards Institute (ANSI) has become responsible for issuing the standardized codes (now renamed the ANSI codes). In the CMF documentation, the state and county codes continue to be referred to as FIPS codes.

The State FIPS codes are ascending, two-digit numbers; the county FIPS codes are ascending three-digit numbers. For both the State and county codes, space has been left for new States or counties.

Changes in county geography (addition and deletion of counties, and boundary changes) and associated changes in the FIPS codes occur from time to time (46). For example, one county may absorb another, two counties may be merged resulting in the deletion of both of them and the creation of a new county, or part of a county may be split off to form a new county or be merged with an existing county. Some county boundary changes result in substantial increases or decreases in the population of the affected county and hence impact death counts, population estimates, and death rates for that county.

Changes in county geography often are implemented later in the vital statistics system than in the Census population files. Thus, deaths continue to be reported for counties that no longer appear on the population files, and not reported for newly added counties. Generally, when the mortality and population file county geography does not match, the geography on the original population files is modified so that it matches the mortality file geography. There are a few instances where the mortality file geography also had to be modified in order to resolve the incompatibilities. When computing statistics at the county-level over time, the user must be aware of changes in county geography so that affected areas can be handled appropriately.

#### **Notes**

1. The county codes on the mortality and population files are completely compatible. However, because there are no State or national-level records on the mortality file, the FIPS codes associated with the State and national-level records on the population file do not appear on the mortality file. On the population file, the national-level records

have a State FIPS code of "00" and a county FIPS code of "000"; state-level records have a nonzero 2-digit State FIPS code and a county FIPS code of "000".

2. There is a record on the population file for each geographic entity (U.S., states, and counties), year, bridged race, and sex subpopulation even if the population estimate is zero. There may not be a record on the mortality file for a given county-year-race-sex-age-group because no record appears on the mortality file for that group if no deaths (for the cause of interest) occurred for the group. Thus, care must be taken when matching the mortality and population files.

3. The number of counties for which there is data on the CMF varies over time. For 1999 and 2000, there are 3,140 counties on the CMF; for 2001 and 2002 there are 3,139 counties, and for 2003 and later there are 3,141 counties.

4. The FIPS codes and names for the counties on the CMF are listed in **Appendix E**.

5. Changes in the county FIPS codes used in the CMF are summarized in Table 11.

Table 11. Summary of changes to counties and county equivalents on the CMF: 1979-present

Area Name	FIPS code	1979-1888	1989-1993	1994-2002	2003-present
<b>ALASKA</b>					
All Alaska areas, combined	02900	√	*-	*-	*-
Aleutian Islands Census Area	02010	*-	√	*-	*-
Aleutians East Borough	02013	*-	*-	√	√
Aleutians West Census Area	02016	*-	*-	√	√
Anchorage Borough	02020	*-	√	√	√
Bethel Census Area	02050	*-	√	√	√
Bristol Bay Borough	02060	*-	√	√	√
Denali Borough	02068	*-	*-	*-	√
Dillingham Census Area <sup>1</sup>	02070	*-	√	√	√
Fairbanks North Star Borough	02090	*-	√	√	√
Haines Borough	02100	*-	√	√	√
Hoonah-Angoon Census Area	02105	*-	*-	*-	*-
Juneau Borough	02110	*-	√	√	√
Kenai Peninsula Borough	02122	*-	√	√	√
Ketchikan Gateway Borough	02130	*-	√	√	√
Kodiak Island Borough	02150	*-	√	√	√
Lake and Peninsula Borough	02164	*-	*-	√	√
Matanuska-Susitina Borough	02170	*-	√	√	√
Nome Census Area	02180	*-	√	√	√
North Slope Borough	02185	*-	√	√	√
Northwest Arctic Borough	02188	*-	√	√	√
Petersburg Census Area	02195	*-	*-	*-	*-
Prince of Wales-Hyder Census Area	02198	*-	*-	*-	*-
Prince of Wales-Outer Ketchikan Census Area	02201	*-	√	√	√

Sitka Borough	02220	-*-	√	√	√
Skagway Municipality	02230	-*-	-*-	-*-	-*-
Skagway-Hoonah-Angoon Census Area	02232	-*-	-*-	√	√
Skagway-Yakutat-Angoon Census Area	02231	-*-	√	-*-	-*-
Southeast Fairbanks Census Area	02240	-*-	√	√	√
Valdez-Cordova Census Area	02260	-*-	√	√	√
Wade Hampton Census Area	02270	-*-	√	√	√
Wrangell City and Borough	02275	-*-	-*-	-*-	-*-
Wrangell-Petersburg Census Area	02280	-*-	√	√	√
Yakutat Borough	02282	-*-	-*-	√	√
Yukon-Koyukuk Census Area <sup>2</sup>	02290	-*-	√	√	√
<b>ARIZONA</b>					
La Paz County	04012	-*-	-*-	√	√
Yuma County <sup>1</sup>	04027	√	√	√	√
<b>COLORADO</b>					
Adams County <sup>3</sup>	08001	√	√	√	√
Boulder County <sup>3</sup>	08013	√	√	√	√
Broomfield County	08014	-*-	-*-	-*-	√
Jefferson County <sup>3</sup>	08059	√	√	√	√
Weld County <sup>3</sup>	08123	√	√	√	√
<b>FLORIDA</b>					
Dade County	12025	√	√	-*-	-*-
Miami-Dade county	12086	-*-	-*-	√	√
<b>GEORGIA</b>					
Unknown County <sup>4</sup>	13999	-*-	√	-*- <sup>4</sup>	-*-
<b>MONTANA</b>					
Gallatin County	30031	√	√	√	√
Yellowstone Park County	30113	√	√	-*-	-*-
<b>NEW MEXICO</b>					
Cibola County	35006	-*-	√	√	√
Valencia County <sup>5</sup>	35051	√	√	√	√
<b>VIRGINIA</b>					
Alleghany, County <sup>6</sup>	51005	√	√	√ <sup>6</sup>	√
Clifton Forge city	51560	√	√	√	-*-
Halifax County <sup>5</sup>	51083	√	√	√	√
Nansamond city	51123	-*-	-*-	-*-	-*-
South Boston city	51780	√	√	-*-	-*-

-\*-Area is not on the CMF during this period.

√ Area is on the CMF during this period.

<sup>1</sup>Discontinuities in the death counts and population estimates for this area may occur between 1993 and 1994 due to changes in the area boundaries.

<sup>2</sup>Discontinuities in the death counts and population estimates for this area may occur between 2002 and 2003 due to changes in the area boundaries.

<sup>3</sup>The size of the population removed from or added to this county was small enough that no noticeable discontinuity occurred.

<sup>4</sup>The unknown county in Georgia was only on the CMF for 1989-1991.

<sup>5</sup>Discontinuities in the death counts and population estimates for this area may occur between 1988 and 1989 due to changes in the area boundaries.

<sup>6</sup>Discontinuities in the death counts and population estimates for this area may occur between 2000 and 2001 due to changes in the area boundaries.

## Specifics about county FIPS code changes on CMF

### 1. Alaska boroughs and census areas.

The boroughs and census areas of Alaska undergo frequent changes making it difficult to work with individual areas. Prior to 1989, the CMF did not include data for the individual Alaska areas. The FIPS codes used for vital statistics coding for Alaska changed in 1994 and in 2003 and therefore changed on the CMF. Specific coding details for Alaska are given below and summarized in **Table 11**.

- a. **Alaska, all areas combined (FIPS code = 02900).** For 1968-88 no data are available on the CMF for individual Alaska areas. For these years, only state-level records (all individual areas combined) with a FIPS code of 02900 appear on the CMF.
- b. **Aleutian Islands Census Area (FIPS code = 02010).** The code for Aleutian Islands Census Area appears on the CMF only for the years 1989-93. Beginning with data year 1994, Aleutian Islands Census Area was replaced by two new areas, Aleutians East Borough (FIPS code=02013) and Aleutians West Census Area (FIPS code=02016).
- c. **Aleutians East Borough (FIPS code = 02013).** Aleutians East Borough was created from part of Aleutian Islands Census Area (FIPS code=02010). Death counts and population estimates for Aleutians East appear on the CMF beginning with data year 1994; for 1989-1993, they were reported for Aleutians Islands Census Area.
- d. **Aleutians West Census Area (FIPS code = 02016).** Aleutians West Census Area was created from that part of Aleutian Islands (FIPS code=02010) that did not become part of Aleutians East Borough (FIPS code=02013). Death counts and population estimates for Aleutians West appear on the CMF beginning with data year 1994; for 1989-93, they were reported for Aleutians Islands Census Area.
- e. **Denali Borough FIPS code = 02068).** Denali Borough was created from the Yukon-Koyukuk Census Area (FIPS code=02290) and an unpopulated part of Southeast Fairbanks (FIPS code=02240). The code for Denali first appears on the CMF for data year 2003. Prior to 2003, deaths and population counts for Denali are coded to Yukon-Koyukuk.
- f. **Dillingham Census Area (FIPS code = 02070).** Death counts and population estimates for Dillingham are available on the CMF for 1989-present. There may be a discontinuity between 1993 and 1994 in the data reported for Dillingham

because in 1989 part of Dillingham was removed to form Lake and Peninsula Borough (FIPS code = 02164) and this change was implemented in the vital records files and the CMF beginning 1994.

- g. **Hoonah-Angoon Census Area (FIPS code = 02105).** Data for Hoonah-Angoon Census Area are not available on the CMF because deaths are not yet reported for this new area. In 2008 Skagway-Hoonah-Angoon Census Area (FIPS code = 02232) was divided into Hoonah-Angoon Census Area and Skagway Municipality (FIPS code = 02230). This change has been implemented in the population files but not in the mortality files. Therefore, population estimates for Hoonah-Angoon and Skagway Municipality on the original Vintage 2009 postcensal population files were recoded to Skagway-Hoonah-Angoon Census Area for the CMF population file.
- h. **Ketchikan Gateway Borough (FIPS code = 02130).** Data for Ketchikan Gateway Borough are available on the CMF for 1989 onwards. However, in 2009, Ketchikan Gateway boundaries were expanded because it annexed Outer Ketchikan which formerly was part of Prince of Wales-Outer Ketchikan Census Area (FIPS code = 02201). The annexed territory was mostly unpopulated; the population increase for Ketchikan Gateway was estimated to be 7. The annexation has not been implemented in the vital records files, but was implemented in the Vintage 2009 population files. Any deaths occurring in Outer Ketchikan continue to be reported for Prince of Wales-Outer Ketchikan Census Area, not for Ketchikan Gateway.
- i. **Kobuck (FIPS code = 02140).** Kobuck) became Northwest Arctic Borough (FIPS code=02188). There are no records for Kobuck on the CMF.
- j. **Lake and Peninsula Borough (FIPS code = 02164).** Lake and Peninsula Borough was created from part of Dillingham (FIPS code=02070). The FIPS code for this borough appears on the CMF beginning with data year 1994. Data for this area for 1989-1993 are coded to Dillingham.
- k. **Northwest Arctic Borough (FIPS code = 02185).** Death counts and population estimates are available for this area on the CMF beginning with data year 1989. This area was formed in 1982 when an unpopulated part of North Slope Borough (FIPS code=02185) was combined with Kobuck (FIPS code=02140)
- l. **Petersburg Census Area (FIPS code = 02195).** Data for Petersburg Census Area are not available on the CMF. Petersburg Census Area was created from part of Wrangell-Petersburg Census Area (FIPS code = 02-280). This change was implemented in the Vintage 2009 population file but has not yet been implemented in the vital records files. Therefore, population estimates on the original 2009 population files for Petersburg were aggregated with those for Wrangell (FIPS code 02275) and recoded to Wrangell-Petersburg (FIPS code 02280).
- m. **Prince of Wales-Hyder Census Area (FIPS code 02198).** Data for Prince of Wales-Hyder Census Area are not available on the CMF. Prince of Wales-Hyder

was formed from part of Prince of Wales-Outer Ketchikan Census Area (FIPS code = 02201). This change was implemented in the 2009 population files but has not been implemented in the vital records files. Therefore, the 2001-2008 population estimates for Prince of Wales-Hyder on the original 2009 population files were recoded to Prince of Wales-Outer Ketchikan Census Area. Population for Outer Ketchikan which was aggregated into the Ketchikan Gateway estimates could not be recovered, but was estimated be small (7).

- n. Skagway Municipality (FIPS code = 02230).** Data for Skagway Municipality are not available on the CMF. Skagway-Hoonah-Angoon Census Area (FIPS code = 02232) was divided into Skagway Municipality and Hoonah-Angoon Census Area (FIPS code = 02105) in 2008. This change was implemented in the population files but has not yet been implemented in the vital records files. Therefore, the 2001-2008 population estimates for Skagway Municipality on the original Vintage 2009 population files have been aggregated with those for Hoonah-Angoon Census Area and recoded to Skagway-Hoonah-Angoon Census Area.
- o. Skagway-Hoonah-Angoon Census Area (FIPS code = 02232).** Data for Skagway-Hoonah-Angoon Census Area appear on the CMF for 1994-present. For 1989-1993, data for Skagway-Hoonah-Angoon were coded to Skagway-Yakutat-Angoon (FIPS code=02231). Skagway-Hoonah-Angoon was formed in 1992 from that part of Skagway-Yakutat-Angoon not incorporated into Yakutat Borough (FIPS code=02282). Note also that in 2008, Skagway-Hoonah-Angoon was split into Hoonah-Angoon Census Area (FIPS code = 02105) and Skagway Municipality (FIPS code = 02230). On the CMF, the 2001-2008 mortality and population data for Hoonah-Angoon Census Area and Skagway Municipality have been aggregated and recoded to Skagway-Hoonah-Angoon Census Area
- p. Skagway-Yakutat-Angoon Census Area (FIPS code = 02231).** Data for Skagway-Yakutat-Angoon Census Area appear on the CMF for 1989-1993. In 1992, Skagway-Yakutat-Angoon Census Area was deleted, after Yakutat Borough (FIPS code=02282) and Skagway-Hoonah-Angoon Census Areas (FIPS code=02232) were formed. This change was implemented in the vital records files, and hence in the CMF, beginning with the 1994 data year.
- p. Wrangell City and Borough (FIPS code = 02275).** Data for Wrangell City and Borough are not available on the CMF. Wrangell City and Borough was created from part of Wrangell-Petersburg Census Area (FIPS code = 02280) and part of Prince of Wales-Outer Ketchikan Census Area (FIPS code = 02-201) (the part of Prince of Wales-Outer Ketchikan not included in Wrangell City and Borough was mostly unpopulated). This change was implemented in the Vintage 2009 population file but has not yet been implemented in the vital records files. Therefore, population estimates for Wrangell City and Borough on the original Vintage 2009 population files were aggregated with those for Petersburg (FIPS code 02195) and recoded to Wrangell-Petersburg Census Area.
- q. Wrangell-Petersburg Census Area (FIPS code = 02280).** Data for Wrangell-Petersburg Census Area are available on the CMF for 1989-present. Wrangell-Petersburg was split to form part of Wrangell City and Borough (FIPS code =

02275) and all of Petersburg Census Area (FIPS code = 02195). This change was implemented in the Vintage 2009 population files but has not yet been implemented in the vital records files. Therefore, the 2001-2008 population estimates for this area were obtained by combining the estimates for Wrangell City and Borough with those for Petersburg Census Area.

- r. **Yakutat Borough (FIPS code = 02282).** Data for Yakutat Borough are available on the CMF for 1994-present. Yakutat Borough was created in 1992 from part of Skagway-Yakutat-Angoon (FIPS code=02231). This change was not implemented in the vital records files until the 1994 data year. On the CMF, data for Yakutat continued to be coded to Skagway-Yakutat-Angoon until 1994.
- s. **Yukon-Koyukuk Census Area (FIPS code = 02290).** Data for Yukon-Koyukuk appear on the CMF for 1989-present. However, there are discontinuities between 2002 and 2003 in the data reported for Yukon-Koyukuk because part of this census area was removed to form Denali Borough (FIPS code = 02068) and this change was implemented in the vital records files and the CMF in the 2003 data year.

2. **La Paz County, AZ (FIPS code = 04012) and Yuma County, AZ. (FIPS code = 02027).** Data for Yuma County, AZ are available on the CMF for 1968-present and for La Paz County, AZ for 1994-present. However, there are discontinuities between 1993 and 1994 in the data reported for Yuma County. These discontinuities occur because part of Yuma County was removed to form La Paz County (in 1982) and this change was implemented in the vital records files and in the CMF beginning in 1994.

3. **Broomfield County, Adams County, Boulder County, Jefferson County, Weld County, CO.** Broomfield County, CO (FIPS code=08014) was created in 2001 from parts of four counties: Adams (FIPS code=08001), Boulder (FIPS code=08013), Jefferson (FIPS code=08059), and Weld (FIPS code=08123). The FIPS code for this new county appears on the CMF beginning with data year 2003. Prior to this deaths and population counts are coded to the original four counties.

4. **Dade County and Miami city, FL.** Dade County (FIPS code=12025) was renamed Miami-Dade County and its FIPS code changed to 12086, effective November 13, 1997. The FIPS code was changed to 12086 on the CMF beginning with data year 1989.

5. **Columbus city and Muscogee County, GA.** The independent city Columbus, Georgia does not appear on the CMF. Death counts and population estimates for Columbus city (FIPS code=13510) have been aggregated with those for Muscogee County (FIPS code=13215).

6. **Unknown County, GA.** A code was created for an “unknown” county in Georgia for data years 1989-1991. Deaths with a mention of HIV as the underlying cause of death or one of the multiple causes of death were assigned to this fictitious county when fewer than 3 occurred in the actual county of residence of the decedent. No population estimates are available.

7. **Baltimore city and Baltimore County, MD.** The independent city of Baltimore,

Maryland has been treated as a county. Death counts and population estimates are reported separately for Baltimore city (FIPS code=24510) and Baltimore County (FIPS code=24005).

8. **Ste. Genevieve, MO.** In order to achieve alphabetical consistency, the FIPS code for Ste. Genevieve, Missouri was changed in 1979 from 29193 to 29186. The new code (29186) has been used throughout this file.

9. **St. Louis city and St. Louis County, MO.** The independent city of St. Louis, Missouri has been treated as a county. Death counts and population estimates are reported separately for St. Louis city (FIPS code=29510) and St. Louis County (FIPS code=29189).

10. **Yellowstone National Park part, MT. and Gallatin County, MT.** Until November 7, 1997, the Montana portion of Yellowstone Park was not in any county and therefore was treated as a county equivalent (FIPS code=30113). On that date, the Montana portion of Yellowstone Park became part of Gallatin, MT (FIPS code=30031) and Park, MT (FIPS code=30067). Beginning with 1989, the FIPS code for Yellowstone Park (30113) was dropped from the CMF and death counts and population estimates for Yellowstone are aggregated with those for Gallatin County. The number of deaths in Yellowstone Park was so small that this should not create a discontinuity.

11. **Carson City, NV.** The independent city of Carson City, Nevada (FIPS code=32510) has been treated as a county. Death counts and population estimates are reported for Carson City.

12. **Cibola County, NM (FIPS code=35006) and Valencia County, NM (FIPS code=35061).** Data for Valencia County, NM are available on the CMF for 1968-present and for Cibola County, NM for 1989-present. However, there are discontinuities between 1988 and 1989 in the data reported for Valencia County. These discontinuities occur because part of Valencia County was removed to form Yuma County (in 1981) and this change was implemented in the vital records files and in the CMF beginning in 1989.

13. **New York City boroughs.** The five boroughs of New York City have been treated as counties and maintained as separate entities on this file.

<u>Borough</u>	<u>County</u>	<u>FIPS Code</u>
Bronx	Bronx	36005
Brooklyn	Kings	36047
Manhattan	New York	36061
Queens	Queens	36081
Staten Island	Richmond	36085

14. **Virginia independent cities.**

- a. **Clifton Forge city, VA. and Alleghany County, VA.** Data are available on the CMF for Alleghany County (FIPS code = 51005) for 1968-present and for Clifton Forge city (FIPS code = 51560) for 1968-2000. Beginning with the 2001 data year Clifton Forge deaths and population estimates are aggregated with those of

Alleghany County because this independent city merged with the county in 2001. As a result of this change, there is a discontinuity between 2000 and 2001 in the data reported for Alleghany County.

- b. **Nansemond city, VA (FIPS code = 51123).** Nansemond city has been part of the independent city of Suffolk, VA (FIPS code=51800) since 1979. On the CMF, death counts and population estimates for Nansemond have been aggregated with those for Suffolk city for all years.
- c. **South Boston city (FIPS code = 51780), VA and Halifax County, VA (FIPS code = 51083).** Data for Halifax County, VA are available on the CMF for 1968-present and for South Boston city, VA for 1989-present. However, there are discontinuities between 1988 and 1989 in the data reported for Halifax County. These discontinuities occur because the independent city South Boston was merged with Halifax County in 1995 and this change was implemented in the vital records files and in the CMF beginning in 1989.

d. The Virginia independent cities are treated as counties and appear on the CMF with the indicated FIPS codes (**Table 12**).

Table 12. Virginia independent cities on this file and the name and county in which each is located

Independent City		County	
Name	FIPS code	Name	FIPS code
Alexandria	51510	Arlington	51013
Bedford	51515	Bedford	51019
Bristol	51520	Washington	51191
Buena Vista	51530	Rockbridge	51163
Charlottesville	51540	Albemarle	51003
Chesapeake	51550		
Clifton Forge*	51560	Alleghany	51005
Colonial Heights	51570	Chesterfield	51041
Covington	51580	Alleghany	51005
Danville	51590	Pittsylvania	51143
Emporia	51595	Greensville	51081
Fairfax	51600	Fairfax	51059
Falls Church	51610	Fairfax	51059
Franklin	51620	Southampton	51175
Fredericksburg	51630	Spotsylvania	51177
Galax	51640	Grayson	51077
Hampton	51650		
Harrisonburg	51660	Rockingham	51165
Hopewell	51670	Prince George	51149
Lexington	51678	Rockbridge	51163
Lynchburg	51680	Campbell	51031
Manassas	51683	Prince William	51153
Manassas Park	51685	Prince William	51153
Martinsville	51690	Henry	51089
Newport News	51700		
Norfolk	51710		
Norton	51720	Wise	51195
Petersburg	51730	Dinwiddie	51053
Poquoson	51735	York	51199
Portsmouth	51740	Norfolk city	51710
Radford	51750	Montgomery	51121
Richmond	51760	Henrico	51087
Roanoke	51770	Roanoke	51161
Salem	51775	Roanoke	51161
South Boston*	51780	Halifax	51083
Staunton	51790	Augusta	51015
Suffolk	51800		
Virginia Beach	51810		
Waynesboro	51820	Augusta	51015
Williamsburg	51830	James City	51095
Winchester	51840	Frederick	51069

\*Clifton Forge is only on the CMF for 1968-2000. South Boston is only on the CMF for 1968-1988.

## APPENDIX F

### Dictionary of State and County FIPS Codes and Names

#### A. State FIPS codes and names

Entries are sorted by State FIPS code.

State FIPS	State Abbrev	State Name	State FIPS	State Abbrev	State Name
01	AL	Alabama	30	MT	Montana
02	AK	Alaska	31	NE	Nebraska
04	AZ	Arizona	32	NV	Nevada
05	AR	Arkansas	33	NH	New Hampshire
06	CA	California	34	NJ	New Jersey
08	CO	Colorado	35	NM	New Mexico
09	CT	Connecticut	36	NY	New York
10	DE	Delaware	37	NC	North Carolina
11	DC	District of Columbia	38	ND	North Dakota
12	FL	Florida	39	OH	Ohio
13	GA	Georgia	40	OK	Oklahoma
15	HI	Hawaii	41	OR	Oregon
16	ID	Idaho	42	PA	Pennsylvania
17	IL	Illinois	44	RI	Rhode Island
18	IN	Indiana	45	SC	South Carolina
19	IA	Iowa	46	SD	South Dakota
20	KS	Kansas	47	TN	Tennessee
21	KY	Kentucky	48	TX	Texas
22	LA	Louisiana	49	UT	Utah
23	ME	Maine	50	VT	Vermont
24	MD	Maryland	51	VA	Virginia
25	MA	Massachusetts	53	WA	Washington
26	MI	Michigan	54	WV	West Virginia
27	MN	Minnesota	55	WI	Wisconsin
28	MS	Mississippi	56	WY	Wyoming
29	MO	Missouri			

## B. Dictionary of State and County FIPS Codes and County Names

Entries in this dictionary are sorted by state and county FIPS code. Independent cities (Maryland, Missouri, Nevada, Virginia) have county codes of 500 and higher and thus, appear at the end of a state's list.

FIPS St	State Cnty	County Abbrev Name	FIPS St	State Cnty	County Abbrev Name
<b>ALABAMA</b>			01	071	AL JACKSON
01	000	ALSTATE TOTAL	01	073	AL JEFFERSON
01	001	AL AUTAUGA	01	075	AL LAMAR
01	003	AL BALDWIN	01	077	AL LAUDERDALE
01	005	AL BARBOUR	01	079	AL LAWRENCE
01	007	AL BIBB	01	081	AL LEE
01	009	AL BLOUNT	01	083	AL LIMESTONE
01	011	AL BULLOCK	01	085	AL LOWNDES
01	013	AL BUTLER	01	087	AL MACON
01	015	AL CALHOUN	01	089	AL MADISON
01	017	AL CHAMBERS	01	091	AL MARENGO
01	019	AL CHEROKEE	01	093	AL MARION
01	021	AL CHILTON	01	095	AL MARSHALL
01	023	AL CHOCTAW	01	097	AL MOBILE
01	025	AL CLARKE	01	099	AL MONROE
01	027	AL CLAY	01	101	AL MONTGOMERY
01	029	AL CLEBURNE	01	103	AL MORGAN
01	031	AL COFFEE	01	105	AL PERRY
01	033	AL COLBERT	01	107	AL PICKENS
01	035	AL CONECUH	01	109	AL PIKE
01	037	AL COOSA	01	111	AL RANDOLPH
01	039	AL COVINGTON	01	113	AL RUSSELL
01	041	AL CRENSHAW	01	115	AL ST. CLAIR
01	043	AL CULLMAN	01	117	AL SHELBY
01	045	AL DALE	01	119	AL SUMTER
01	047	AL DALLAS	01	121	AL TALLADEGA
01	049	AL DEKALB	01	123	AL TALLAPOOSA
01	051	AL ELMORE	01	125	AL TUSCALOOSA
01	053	AL ESCAMBIA	01	127	AL WALKER
01	055	AL ETOWAH	01	129	AL WASHINGTON
01	057	AL FAYETTE	01	131	AL WILCOX
01	059	AL FRANKLIN	01	133	AL WINSTON
01	061	AL GENEVA	<b>ALASKA</b>		
01	063	AL GREENE	02	000	AK STATE TOTAL
01	065	AL HALE	02	010	AK Aleutian Islands
01	067	AL HENRY	02	013	AK Aleutians East Borough
01	069	AL HOUSTON			



FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
05	067	AR	JACKSON	05	149	AR	YELL
05	069	AR	JEFFERSON	<b>CALIFORNIA</b>			
05	071	AR	JOHNSON	06	000	CA	STATE TOTAL
05	073	AR	LAFAYETTE	06	001	CA	ALAMEDA
05	075	AR	LAWRENCE	06	003	CA	ALPINE
05	077	AR	LEE	06	005	CA	AMADOR
05	079	AR	LINCOLN	06	007	CA	BUTTE
05	081	AR	LITTLE RIVER	06	009	CA	CALAVERAS
05	083	AR	LOGAN	06	011	CA	COLUSA
05	085	AR	LONOKE	06	013	CA	CONTRA COSTA
05	087	AR	MADISON	06	015	CA	DEL NORTE
05	089	AR	MARION	06	017	CA	EL DORADO
05	091	AR	MILLER	06	019	CA	FRESNO
05	093	AR	MISSISSIPPI	06	021	CA	GLENN
05	095	AR	MONROE	06	023	CA	HUMBOLDT
05	097	AR	MONTGOMERY	06	025	CA	IMPERIAL
05	099	AR	NEVADA	06	027	CA	INYO
05	101	AR	NEWTON	06	029	CA	KERN
05	103	AR	OUACHITA	06	031	CA	KINGS
05	105	AR	PERRY	06	033	CA	LAKE
05	107	AR	PHILLIPS	06	035	CA	LASSEN
05	109	AR	PIKE	06	037	CA	LOS ANGELES
05	111	AR	POINSETT	06	039	CA	MADERA
05	113	AR	POLK	06	041	CA	MARIN
05	115	AR	POPE	06	043	CA	MARIPOSA
05	117	AR	PRAIRIE	06	045	CA	MENDOCINO
05	119	AR	PULASKI	06	047	CA	MERCED
05	121	AR	RANDOLPH	06	049	CA	MODOC
05	123	AR	ST. FRANCIS	06	051	CA	MONO
05	125	AR	SALINE	06	053	CA	MONTEREY
05	127	AR	SCOTT	06	055	CA	NAPA
05	129	AR	SEARCY	06	057	CA	NEVADA
05	131	AR	SEBASTIAN	06	059	CA	ORANGE
05	133	AR	SEVIER	06	061	CA	PLACER
05	135	AR	SHARP	06	063	CA	PLUMAS
05	137	AR	STONE	06	065	CA	RIVERSIDE
05	139	AR	UNION	06	067	CA	SACRAMENTO
05	141	AR	VAN BUREN	06	069	CA	SAN BENITO
05	143	AR	WASHINGTON	06	071	CA	SAN BERNARDINO
05	145	AR	WHITE	06	073	CA	SAN DIEGO
05	147	AR	WOODRUFF				

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
06	075	CA	SAN FRANCISCO	08	033	CO	DOLORES
06	077	CA	SAN JOAQUIN	08	035	CO	DOUGLAS
06	079	CA	SAN LUIS OBISPO	08	037	CO	EAGLE
06	081	CA	SAN MATEO	08	039	CO	ELBERT
06	083	CA	SANTA BARBARA	08	041	CO	EL PASO
06	085	CA	SANTA CLARA	08	043	CO	FREMONT
06	087	CA	SANTA CRUZ	08	045	CO	GARFIELD
06	089	CA	SHASTA	08	047	CO	GILPIN
06	091	CA	SIERRA	08	049	CO	GRAND
06	093	CA	SISKIYOU	08	051	CO	GUNNISON
06	095	CA	SOLANO	08	053	CO	HINSDALE
06	097	CA	SONOMA	08	055	CO	HUERFANO
06	099	CA	STANISLAUS	08	057	CO	JACKSON
06	101	CA	SUTTER	08	059	CO	JEFFERSON
06	103	CA	TEHAMA	08	061	CO	KIOWA
06	105	CA	TRINITY	08	063	CO	KIT CARSON
06	107	CA	TULARE	08	065	CO	LAKE
06	109	CA	TUOLUMNE	08	067	CO	LA PLATA
06	111	CA	VENTURA	08	069	CO	LARIMER
06	113	CA	YOLO	08	071	CO	LAS ANIMAS
06	115	CA	YUBA	08	073	CO	LINCOLN
<b>COLORADO</b>				08	075	CO	LOGAN
08	000	CO	STATE TOTAL	08	077	CO	MESA
08	001	CO	ADAMS	08	079	CO	MINERAL
08	003	CO	ALAMOSA	08	081	CO	MOFFAT
08	005	CO	ARAPAHOE	08	083	CO	MONTEZUMA
08	007	CO	ARCHULETA	08	085	CO	MONTROSE
08	009	CO	BACA	08	087	CO	MORGAN
08	011	CO	BENT	08	089	CO	OTERO
08	013	CO	BOULDER	08	091	CO	OURAY
08	014	CO	BROOMFIELD	08	093	CO	PARK
08	015	CO	CHAFFEE	08	095	CO	PHILLIPS
08	017	CO	CHEYENNE	08	097	CO	PITKIN
08	019	CO	CLEAR CREEK	08	099	CO	PROWERS
08	021	CO	CONEJOS	08	101	CO	PUEBLO
08	023	CO	COSTILLA	08	103	CO	RIO BLANCO
08	025	CO	CROWLEY	08	105	CO	RIO GRANDE
08	027	CO	CUSTER	08	107	CO	ROUTT
08	029	CO	DELTA	08	109	CO	SAGUACHE
08	031	CO	DENVER	08	111	CO	SAN JUAN
				08	113	CO	SAN MIGUEL

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
08	115	CO	SEDGWICK	12	023	FL	COLUMBIA
08	117	CO	SUMMIT	12	025	FL	MIAMI-DADE
08	119	CO	TELLER	12	027	FL	DE SOTO
08	121	CO	WASHINGTON	12	029	FL	DIXIE
08	123	CO	WELD	12	031	FL	DUVAL
08	125	CO	YUMA	12	033	FL	ESCAMBIA
<b>CONNECTICUTT</b>				12	035	FL	FLAGLER
09	000	CT	STATE TOTAL	12	037	FL	FRANKLIN
09	001	CT	FAIRFIELD	12	039	FL	GADSDEN
09	003	CT	HARTFORD	12	041	FL	GILCHRIST
09	005	CT	LITCHFIELD	12	043	FL	GLADES
09	007	CT	MIDDLESEX	12	045	FL	GULF
09	009	CT	NEW HAVEN	12	047	FL	HAMILTON
09	011	CT	NEW LONDON	12	049	FL	HARDEE
09	013	CT	TOLLAND	12	051	FL	HENDRY
09	015	CT	WINDHAM	12	053	FL	HERNANDO
<b>DELAWARE</b>				12	055	FL	HIGHLANDS
10	000	DE	STATE TOTAL	12	057	FL	HILLSBOROUGH
10	001	DE	KENT	12	059	FL	HOLMES
10	003	DE	NEW CASTLE	12	061	FL	INDIAN RIVER
10	005	DE	SUSSEX	12	063	FL	JACKSON
<b>DISTRICT of COLUMBIA</b>				12	065	FL	JEFFERSON
11	000	DC	STATE TOTAL	12	067	FL	LAFAYETTE
11	001	DC	WASHINGTON	12	069	FL	LAKE
<b>FLORIDA</b>				12	071	FL	LEE
12	000	FL	STATE TOTAL	12	073	FL	LEON
12	001	FL	ALACHUA	12	075	FL	LEVY
12	003	FL	BAKER	12	077	FL	LIBERTY
12	005	FL	BAY	12	079	FL	MADISON
12	007	FL	BRADFORD	12	081	FL	MANATEE
12	009	FL	BREVARD	12	083	FL	MARION
12	011	FL	BROWARD	12	085	FL	MARTIN
12	013	FL	CALHOUN	12	086	FL	MIAMI-DADE
12	015	FL	CHARLOTTE	12	087	FL	MONROE
12	017	FL	CITRUS	12	089	FL	NASSAU
12	019	FL	CLAY	12	091	FL	OKALOOSA
12	021	FL	COLLIER	12	093	FL	OKEECHOBEE
				12	095	FL	ORANGE
				12	097	FL	OSCEOLA
				12	099	FL	PALM BEACH
				12	101	FL	PASCO

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
12	103	FL	PINELLAS	13	045	GA	CARROLL
12	105	FL	POLK	13	047	GA	CATOOSA
12	107	FL	PUTNAM	13	049	GA	CHARLTON
12	109	FL	ST. JOHNS	13	051	GA	CHATHAM
12	111	FL	ST. LUCIE	13	053	GA	CHATTAHOOCHEE
12	113	FL	SANTA ROSA	13	055	GA	CHATTOOGA
12	115	FL	SARASOTA	13	057	GA	CHEROKEE
12	117	FL	SEMINOLE	13	059	GA	CLARKE
12	119	FL	SUMTER	13	061	GA	CLAY
12	121	FL	SUWANNEE	13	063	GA	CLAYTON
12	123	FL	TAYLOR	13	065	GA	CLINCH
12	125	FL	UNION	13	067	GA	COBB
12	127	FL	VOLUSIA	13	069	GA	COFFEE
12	129	FL	WAKULLA	13	071	GA	COLQUITT
12	131	FL	WALTON	13	073	GA	COLUMBIA
12	133	FL	WASHINGTON	13	075	GA	COOK
<b>GEORGIA</b>				13	077	GA	COWETA
13	000	GA	STATE TOTAL	13	079	GA	CRAWFORD
13	001	GA	APPLING	13	081	GA	CRISP
13	003	GA	ATKINSON	13	083	GA	DADE
13	005	GA	BACON	13	085	GA	DAWSON
13	007	GA	BAKER	13	087	GA	DECATUR
13	009	GA	BALDWIN	13	089	GA	DE KALB
13	011	GA	BANKS	13	091	GA	DODGE
13	013	GA	BARROW	13	093	GA	DOOLY
13	015	GA	BARTOW	13	095	GA	DOUGHERTY
13	017	GA	BEN HILL	13	097	GA	DOUGLAS
13	019	GA	BERRIEN	13	099	GA	EARLY
13	021	GA	BIBB	13	101	GA	ECHOLS
13	023	GA	BLECKLEY	13	103	GA	EFFINGHAM
13	025	GA	BRANTLEY	13	105	GA	ELBERT
13	027	GA	BROOKS	13	107	GA	EMANUEL
13	029	GA	BRYAN	13	109	GA	EVANS
13	031	GA	BULLOCH	13	111	GA	FANNIN
13	033	GA	BURKE	13	113	GA	FAYETTE
13	035	GA	BUTTS	13	115	GA	FLOYD
13	037	GA	CALHOUN	13	117	GA	FORSYTH
13	039	GA	CAMDEN	13	119	GA	FRANKLIN
13	041	GA	GILCHRIST	13	121	GA	FULTON
13	043	GA	CANDLER	13	123	GA	GILMER
				13	125	GA	GLASCOCK

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
13	127	GA	GLYNN	13	211	GA	MORGAN
13	129	GA	GORDON	13	213	GA	MURRAY
13	131	GA	GRADY	13	215	GA	MUSCOGEE
13	133	GA	GREENE	13	217	GA	NEWTON
13	135	GA	GWINNETT	13	219	GA	OCONEE
13	137	GA	HABERSHAM	13	221	GA	OGLETHORPE
13	139	GA	HALL	13	223	GA	PAULDING
13	141	GA	HANCOCK	13	225	GA	PEACH
13	143	GA	HARALSON	13	227	GA	PICKENS
13	145	GA	HARRIS	13	229	GA	PIERCE
13	147	GA	HART	13	231	GA	PIKE
13	149	GA	HEARD	13	233	GA	POLK
13	151	GA	HENRY	13	235	GA	PULASKI
13	153	GA	HOUSTON	13	237	GA	PUTNAM
13	155	GA	IRWIN	13	239	GA	QUITMAN
13	157	GA	JACKSON	13	241	GA	RABUN
13	159	GA	JASPER	13	243	GA	RANDOLPH
13	161	GA	JEFF DAVIS	13	245	GA	RICHMOND
13	163	GA	JEFFERSON	13	247	GA	ROCKDALE
13	165	GA	JENKINS	13	249	GA	SCHLEY
13	167	GA	JOHNSON	13	251	GA	SCREVEN
13	169	GA	JONES	13	253	GA	SEMINOLE
13	171	GA	LAMAR	13	255	GA	SPALDING
13	173	GA	LANIER	13	257	GA	STEPHENS
13	175	GA	LAURENS	13	259	GA	STEWART
13	177	GA	LEE	13	261	GA	SUMTER
13	179	GA	LIBERTY	13	263	GA	TALBOT
13	181	GA	LINCOLN	13	265	GA	TALIAFERRO
13	183	GA	LONG	13	267	GA	TATTNALL
13	185	GA	LOWNDES	13	269	GA	TAYLOR
13	187	GA	LUMPKIN	13	271	GA	TELFAIR
13	189	GA	MCDUFFIE	13	273	GA	TERRELL
13	191	GA	MCINTOSH	13	275	GA	THOMAS
13	193	GA	MACON	13	277	GA	TIFT
13	195	GA	MADISON	13	279	GA	TOOMBS
13	197	GA	MARION	13	281	GA	TOWNS
13	199	GA	MERIWETHER	13	283	GA	TREUTLEN
13	201	GA	MILLER	13	285	GA	TROUP
13	205	GA	MITCHELL	13	287	GA	TURNER
13	207	GA	MONROE	13	289	GA	TWIGGS
13	209	GA	MONTGOMERY	13	291	GA	UNION

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
13	293	GA	UPSON	16	029	ID	CARIBOU
13	295	GA	WALKER	16	031	ID	CASSIA
13	297	GA	WALTON	16	033	ID	CLARK
13	299	GA	WARE	16	035	ID	CLEARWATER
13	301	GA	WARREN	16	037	ID	CUSTER
13	303	GA	WASHINGTON	16	039	ID	ELMORE
13	305	GA	WAYNE	16	041	ID	FRANKLIN
13	307	GA	WEBSTER	16	043	ID	FREMONT
13	309	GA	WHEELER	16	045	ID	GEM
13	311	GA	WHITE	16	047	ID	GOODING
13	313	GA	WHITFIELD	16	049	ID	IDAHO
13	315	GA	WILCOX	16	051	ID	JEFFERSON
13	317	GA	WILKES	16	053	ID	JEROME
13	319	GA	WILKINSON	16	055	ID	KOOTENAI
13	321	GA	WORTH	16	057	ID	LATAH
13	999	GA	UNKNOWN	16	059	ID	LEMHI
<b>HAWAII</b>				16	061	ID	LEWIS
15	000	HI	STATE TOTAL	16	063	ID	LINCOLN
15	001	HI	HAWAII	16	065	ID	MADISON
15	003	HI	HONOLULU	16	067	ID	MINIDOKA
15	005	HI	KALAWAO	16	069	ID	NEZ PERCE
15	007	HI	KAUAI	16	071	ID	ONEIDA
15	009	HI	MAUI	16	073	ID	OWYHEE
<b>IDAHO</b>				16	075	ID	PAYETTE
16	000	ID	STATE TOTAL	16	077	ID	POWER
16	001	ID	ADA	16	079	ID	SHOSHONE
16	003	ID	ADAMS	16	081	ID	TETON
16	005	ID	BANNOCK	16	083	ID	TWIN FALLS
16	007	ID	BEAR LAKE	16	085	ID	VALLEY
16	009	ID	BENEWAH	16	087	ID	WASHINGTON
16	011	ID	BINGHAM	<b>ILLINOIS</b>			
16	013	ID	BLAINE	17	000	IL	STATE TOTAL
16	015	ID	BOISE	17	001	IL	ADAMS
16	017	ID	BONNER	17	003	IL	ALEXANDER
16	019	ID	BONNEVILLE	17	005	IL	BOND
16	021	ID	BOUNDARY	17	007	IL	BOONE
16	023	ID	BUTTE	17	009	IL	BROWN
16	025	ID	CAMAS	17	011	IL	BUREAU
16	027	ID	CANYON	17	013	IL	CALHOUN
				17	015	IL	CARROLL

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
17	017	IL	CASS	17	099	IL	LA SALLE
17	019	IL	CHAMPAIGN	17	101	IL	LAWRENCE
17	021	IL	CHRISTIAN	17	103	IL	LEE
17	023	IL	CLARK	17	105	IL	LIVINGSTON
17	025	IL	CLAY	17	107	IL	LOGAN
17	027	IL	CLINTON	17	109	IL	MCDONOUGH
17	029	IL	COLES	17	111	IL	MCHENRY
17	031	IL	COOK	17	113	IL	MCLEAN
17	033	IL	CRAWFORD	17	115	IL	MACON
17	035	IL	CUMBERLAND	17	117	IL	MACOUPIN
17	037	IL	DE KALB	17	119	IL	MADISON
17	039	IL	DE WITT	17	121	IL	MARION
17	041	IL	DOUGLAS	17	123	IL	MARSHALL
17	043	IL	DU PAGE	17	125	IL	MASON
17	045	IL	EDGAR	17	127	IL	MASSAC
17	047	IL	EDWARDS	17	129	IL	MENARD
17	049	IL	EFFINGHAM	17	131	IL	MERCER
17	051	IL	FAYETTE	17	133	IL	MONROE
17	053	IL	FORD	17	135	IL	MONTGOMERY
17	055	IL	FRANKLIN	17	137	IL	MORGAN
17	057	IL	FULTON	17	139	IL	MOULTRIE
17	059	IL	GALLATIN	17	141	IL	OGLE
17	061	IL	GREENE	17	143	IL	PEORIA
17	063	IL	GRUNDY	17	145	IL	PERRY
17	065	IL	HAMILTON	17	147	IL	PIATT
17	067	IL	HANCOCK	17	149	IL	PIKE
17	069	IL	HARDIN	17	151	IL	POPE
17	071	IL	HENDERSON	17	153	IL	PULASKI
17	073	IL	HENRY	17	155	IL	PUTNAM
17	075	IL	IROQUOIS	17	157	IL	RANDOLPH
17	077	IL	JACKSON	17	159	IL	RICHLAND
17	079	IL	JASPER	17	161	IL	ROCK ISLAND
17	081	IL	JEFFERSON	17	163	IL	ST. CLAIR
17	083	IL	JERSEY	17	165	IL	SALINE
17	085	IL	JO DAVIESS	17	167	IL	SANGAMON
17	087	IL	JOHNSON	17	169	IL	SCHUYLER
17	089	IL	KANE	17	171	IL	SCOTT
17	091	IL	KANKAKEE	17	173	IL	SHELBY
17	093	IL	KENDALL	17	175	IL	STARK
17	095	IL	KNOX	17	177	IL	STEPHENSON
17	097	IL	LAKE	17	179	IL	TAZEWELL

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
17	181	IL	UNION	18	053	IN	GRANT
17	183	IL	VERMILION	18	055	IN	GREENE
17	185	IL	WABASH	18	057	IN	HAMILTON
17	187	IL	WARREN	18	059	IN	HANCOCK
17	189	IL	WASHINGTON	18	061	IN	HARRISON
17	191	IL	WAYNE	18	063	IN	HENDRICKS
17	193	IL	WHITE	18	065	IN	HENRY
17	195	IL	WHITESIDE	18	067	IN	HOWARD
17	197	IL	WILL	18	069	IN	HUNTINGTON
17	199	IL	WILLIAMSON	18	071	IN	JACKSON
17	201	IL	WINNEBAGO	18	073	IN	JASPER
17	203	IL	WOODFORD	18	075	IN	JAY
<b>INDIANA</b>				18	077	IN	JEFFERSON
18	000	IN	STATE TOTAL	18	079	IN	JENNINGS
18	001	IN	ADAMS	18	081	IN	JOHNSON
18	003	IN	ALLEN	18	083	IN	KNOX
18	005	IN	BARTHOLOMEW	18	085	IN	KOSCIUSKO
18	007	IN	BENTON	18	087	IN	LAGRANGE
18	009	IN	BLACKFORD	18	089	IN	LAKE
18	011	IN	BOONE	18	091	IN	LA PORTE
18	013	IN	BROWN	18	093	IN	LAWRENCE
18	015	IN	CARROLL	18	095	IN	MADISON
18	017	IN	CASS	18	097	IN	MARION
18	019	IN	CLARK	18	099	IN	MARSHALL
18	021	IN	CLAY	18	101	IN	MARTIN
18	023	IN	CLINTON	18	103	IN	MIAMI
18	025	IN	CRAWFORD	18	105	IN	MONROE
18	027	IN	DAVISS	18	107	IN	MONTGOMERY
18	029	IN	DEARBORN	18	109	IN	MORGAN
18	031	IN	DECATUR	18	111	IN	NEWTON
18	033	IN	DE KALB	18	113	IN	NOBLE
18	035	IN	DELAWARE	18	115	IN	OHIO
18	037	IN	DUBOIS	18	117	IN	ORANGE
18	039	IN	ELKHART	18	119	IN	OWEN
18	041	IN	FAYETTE	18	121	IN	PARKE
18	043	IN	FLOYD	18	123	IN	PERRY
18	045	IN	FOUNTAIN	18	125	IN	PIKE
18	047	IN	FRANKLIN	18	127	IN	PORTER
18	049	IN	FULTON	18	129	IN	POSEY
18	051	IN	GIBSON	18	131	IN	PULASKI
				18	133	IN	PUTNAM

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
18	135	IN	RANDOLPH	19	027	IA	CARROLL
18	137	IN	RIPLEY	19	029	IA	CASS
18	139	IN	RUSH	19	031	IA	CEDAR
18	141	IN	ST. JOSEPH	19	033	IA	CERRO GORDO
18	143	IN	SCOTT	19	035	IA	CHEROKEE
18	145	IN	SHELBY	19	037	IA	CHICKASAW
18	147	IN	SPENCER	19	039	IA	CLARKE
18	149	IN	STARKE	19	041	IA	CLAY
18	151	IN	STEUBEN	19	043	IA	CLAYTON
18	153	IN	SULLIVAN	19	045	IA	CLINTON
18	155	IN	SWITZERLAND	19	047	IA	CRAWFORD
18	157	IN	TIPPECANOE	19	049	IA	DALLAS
18	159	IN	TIPTON	19	051	IA	DAVIS
18	161	IN	UNION	19	053	IA	DECATUR
18	163	IN	VANDERBURGH	19	055	IA	DELAWARE
18	165	IN	VERMILLION	19	057	IA	DES MOINES
18	167	IN	VIGO	19	059	IA	DICKINSON
18	169	IN	WABASH	19	061	IA	DUBUQUE
18	171	IN	WARREN	19	063	IA	EMMET
18	173	IN	WARRICK	19	065	IA	FAYETTE
18	175	IN	WASHINGTON	19	067	IA	FLOYD
18	177	IN	WAYNE	19	069	IA	FRANKLIN
18	179	IN	WELLS	19	071	IA	FREMONT
18	181	IN	WHITE	19	073	IA	GREENE
18	183	IN	WHITLEY	19	075	IA	GRUNDY
<b>IOWA</b>				19	077	IA	GUTHRIE
19	000	IA	STATE TOTAL	19	079	IA	HAMILTON
19	001	IA	ADAIR	19	081	IA	HANCOCK
19	003	IA	ADAMS	19	083	IA	HARDIN
19	005	IA	ALLAMAKEE	19	085	IA	HARRISON
19	007	IA	APPANOOSE	19	087	IA	HENRY
19	009	IA	AUDUBON	19	089	IA	HOWARD
19	011	IA	BENTON	19	091	IA	HUMBOLDT
19	013	IA	BLACK HAWK	19	093	IA	IDA
19	015	IA	BOONE	19	095	IA	IOWA
19	017	IA	BREMER	19	097	IA	JACKSON
19	019	IA	BUCHANAN	19	099	IA	JASPER
19	021	IA	BUENA VISTA	19	101	IA	JEFFERSON
19	023	IA	BUTLER	19	103	IA	JOHNSON
19	025	IA	CALHOUN	19	105	IA	JONES
				19	107	IA	KEOKUK





FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
21	017	KY	BOURBON	21	099	KY	HART
21	019	KY	BOYD	21	101	KY	HENDERSON
21	021	KY	BOYLE	21	103	KY	HENRY
21	023	KY	BRACKEN	21	105	KY	HICKMAN
21	025	KY	BREATHITT	21	107	KY	HOPKINS
21	027	KY	BRECKINRIDGE	21	109	KY	JACKSON
21	029	KY	BULLITT	21	111	KY	JEFFERSON
21	031	KY	BUTLER	21	113	KY	JESSAMINE
21	033	KY	CALDWELL	21	115	KY	JOHNSON
21	035	KY	CALLOWAY	21	117	KY	KENTON
21	037	KY	CAMPBELL	21	119	KY	KNOTT
21	039	KY	CARLISLE	21	121	KY	KNOX
21	041	KY	CARROLL	21	123	KY	LARUE
21	043	KY	CARTER	21	125	KY	LAUREL
21	045	KY	CASEY	21	127	KY	LAWRENCE
21	047	KY	CHRISTIAN	21	129	KY	LEE
21	049	KY	CLARK	21	131	KY	LESLIE
21	051	KY	CLAY	21	133	KY	LETCHER
21	053	KY	CLINTON	21	135	KY	LEWIS
21	055	KY	CRITTENDEN	21	137	KY	LINCOLN
21	057	KY	CUMBERLAND	21	139	KY	LIVINGSTON
21	059	KY	DAVISS	21	141	KY	LOGAN
21	061	KY	EDMONSON	21	143	KY	LYON
21	063	KY	ELLIOTT	21	145	KY	MCCRACKEN
21	065	KY	ESTILL	21	147	KY	MCCREARY
21	067	KY	FAYETTE	21	149	KY	MCLEAN
21	069	KY	FLEMING	21	151	KY	MADISON
21	071	KY	FLOYD	21	153	KY	MAGOFFIN
21	073	KY	FRANKLIN	21	155	KY	MARION
21	075	KY	FULTON	21	157	KY	MARSHALL
21	077	KY	GALLATIN	21	159	KY	MARTIN
21	079	KY	GARRARD	21	161	KY	MASON
21	081	KY	GRANT	21	163	KY	MEADE
21	083	KY	GRAVES	21	165	KY	MENIFEE
21	085	KY	GRAYSON	21	167	KY	MERCER
21	087	KY	GREEN	21	169	KY	METCALFE
21	089	KY	GREENUP	21	171	KY	MONROE
21	091	KY	HANCOCK	21	173	KY	MONTGOMERY
21	093	KY	HARDIN	21	175	KY	MORGAN
21	095	KY	HARLAN	21	177	KY	MUHLENBERG
21	097	KY	HARRISON	21	179	KY	NELSON

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
21	181	KY	NICHOLAS	22	017	LA	CADDO
21	183	KY	OHIO	22	019	LA	CALCASIEU
21	185	KY	OLDHAM	22	021	LA	CALDWELL
21	187	KY	OWEN	22	023	LA	CAMERON
21	189	KY	OWSLEY	22	025	LA	CATAHOULA
21	191	KY	PENDLETON	22	027	LA	CLAIBORNE
21	193	KY	PERRY	22	029	LA	CONCORDIA
21	195	KY	PIKE	22	031	LA	DE SOTO
21	197	KY	POWELL	22	033	LA	EAST BATON ROUGE
21	199	KY	PULASKI	22	035	LA	EAST CARROLL
21	201	KY	ROBERTSON	22	037	LA	EAST FELICIANA
21	203	KY	ROCKCASTLE	22	039	LA	EVANGELINE
21	205	KY	ROWAN	22	041	LA	FRANKLIN
21	207	KY	RUSSELL	22	043	LA	GRANT
21	209	KY	SCOTT	22	045	LA	IBERIA
21	211	KY	SHELBY	22	047	LA	IBERVILLE
21	213	KY	SIMPSON	22	049	LA	JACKSON
21	215	KY	SPENCER	22	051	LA	JEFFERSON
21	217	KY	TAYLOR	22	053	LA	JEFFERSON DAVIS
21	219	KY	TODD	22	055	LA	LAFAYETTE
21	221	KY	TRIGG	22	057	LA	LAFOURCHE
21	223	KY	TRIMBLE	22	059	LA	LA SALLE
21	225	KY	UNION	22	061	LA	LINCOLN
21	227	KY	WARREN	22	063	LA	LIVINGSTON
21	229	KY	WASHINGTON	22	065	LA	MADISON
21	231	KY	WAYNE	22	067	LA	MOREHOUSE
21	233	KY	WEBSTER	22	069	LA	NATCHITOCHE
21	235	KY	WHITLEY	22	071	LA	ORLEANS
21	237	KY	WOLFE	22	073	LA	OUACHITA
21	239	KY	WOODFORD	22	075	LA	PLAQUEMINES
<b>LOUISIANA</b>				22	077	LA	POINTE COUPEE
22	000	LA	STATE TOTAL	22	079	LA	RAPIDES
22	001	LA	ACADIA	22	081	LA	RED RIVER
22	003	LA	ALLEN	22	083	LA	RICHLAND
22	005	LA	ASCENSION	22	085	LA	SABINE
22	007	LA	ASSUMPTION	22	087	LA	ST. BERNARD
22	009	LA	AVOUELLES	22	089	LA	ST. CHARLES
22	011	LA	BEAUREGARD	22	091	LA	ST. HELENA
22	013	LA	BIENVILLE	22	093	LA	ST. JAMES
22	015	LA	BOSSIER	22	095	LA	ST. JOHN THE BAPTIST
				22	097	LA	ST. LANDRY

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
22	099	LA	ST. MARTIN	24	011	MD	CAROLINE
22	101	LA	ST. MARY	24	013	MD	CARROLL
22	103	LA	ST. TAMMANY	24	015	MD	CECIL
22	105	LA	TANGIPAHOA	24	017	MD	CHARLES
22	107	LA	TENSAS	24	019	MD	DORCHESTER
22	109	LA	TERREBONNE	24	021	MD	FREDERICK
22	111	LA	UNION	24	023	MD	GARRETT
22	113	LA	VERMILION	24	025	MD	HARFORD
22	115	LA	VERNON	24	027	MD	HOWARD
22	117	LA	WASHINGTON	24	029	MD	KENT
22	119	LA	WEBSTER	24	031	MD	MONTGOMERY
22	121	LA	WEST BATON ROUGE	24	033	MD	PRINCE GEORGE'S
22	123	LA	WEST CARROLL	24	035	MD	QUEEN ANNE'S
22	125	LA	WEST FELICIANA	24	037	MD	ST. MARY'S
22	127	LA	WINN	24	039	MD	SOMERSET
<b>MAINE</b>				24	041	MD	TALBOT
23	000	ME	STATE TOTAL	24	043	MD	WASHINGTON
23	001	ME	ANDROSCOGGIN	24	045	MD	WICOMICO
23	003	ME	AROOSTOOK	24	047	MD	WORCESTER
23	005	ME	CUMBERLAND	24	510	MD	BALTIMORE CITY
23	007	ME	FRANKLIN	<b>MASSACHUSETTS</b>			
23	009	ME	HANCOCK	25	000	MA	STATE TOTAL
23	011	ME	KENNEBEC	25	001	MA	BARNSTABLE
23	013	ME	KNOX	25	003	MA	BERKSHIRE
23	015	ME	LINCOLN	25	005	MA	BRISTOL
23	017	ME	OXFORD	25	007	MA	DUKES
23	019	ME	PENOBSCOT	25	009	MA	ESSEX
23	021	ME	PISCATAQUIS	25	011	MA	FRANKLIN
23	023	ME	SAGADAHOC	25	013	MA	HAMPDEN
23	025	ME	SOMERSET	25	015	MA	HAMPSHIRE
23	027	ME	WALDO	25	017	MA	MIDDLESEX
23	029	ME	WASHINGTON	25	019	MA	NANTUCKET
23	031	ME	YORK	25	021	MA	NORFOLK
<b>MARYLAND</b>				25	023	MA	PLYMOUTH
24	000	MD	STATE TOTAL	25	025	MA	SUFFOLK
24	001	MD	ALLEGANY	25	027	MA	WORCESTER
24	003	MD	ANNE ARUNDEL	<b>MICHIGAN</b>			
24	005	MD	BALTIMORE	26	000	MI	STATE TOTAL
24	009	MD	CALVERT	26	001	MI	ALCONA

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
26	003	MI	ALGER	26	085	MI	LAKE
26	005	MI	ALLEGAN	26	087	MI	LAPEER
26	007	MI	ALPENA	26	089	MI	LEELANAU
26	009	MI	ANTRIM	26	091	MI	LENAWEE
26	011	MI	ARENAC	26	093	MI	LIVINGSTON
26	013	MI	BARAGA	26	095	MI	LUCE
26	015	MI	BARRY	26	097	MI	MACKINAC
26	017	MI	BAY	26	099	MI	MACOMB
26	019	MI	BENZIE	26	101	MI	MANISTEE
26	021	MI	BERRIEN	26	103	MI	MARQUETTE
26	023	MI	BRANCH	26	105	MI	MASON
26	025	MI	CALHOUN	26	107	MI	MECOSTA
26	027	MI	CASS	26	109	MI	MENOMINEE
26	029	MI	CHARLEVOIX	26	111	MI	MIDLAND
26	031	MI	CHEBOYGAN	26	113	MI	MISSAUKEE
26	033	MI	CHIPPEWA	26	115	MI	MONROE
26	035	MI	CLARE	26	117	MI	MONTCALM
26	037	MI	CLINTON	26	119	MI	MONTMORENCY
26	039	MI	CRAWFORD	26	121	MI	MUSKEGON
26	041	MI	DELTA	26	123	MI	NEWAYGO
26	043	MI	DICKINSON	26	125	MI	OAKLAND
26	045	MI	EATON	26	127	MI	OCEANA
26	047	MI	EMMET	26	129	MI	OGEMAW
26	049	MI	GENESEE	26	131	MI	ONTONAGON
26	051	MI	GLADWIN	26	133	MI	OSCEOLA
26	053	MI	GOGEBIC	26	135	MI	OSCODA
26	055	MI	GRAND TRAVERSE	26	137	MI	OTSEGO
26	057	MI	GRATIOT	26	139	MI	OTTAWA
26	059	MI	HILLSDALE	26	141	MI	PRESQUE ISLE
26	061	MI	HOUGHTON	26	143	MI	ROSCOMMON
26	063	MI	HURON	26	145	MI	SAGINAW
26	065	MI	INGHAM	26	147	MI	ST. CLAIR
26	067	MI	IONIA	26	149	MI	ST. JOSEPH
26	069	MI	IOSCO	26	151	MI	SANILAC
26	071	MI	IRON	26	153	MI	SCHOOLCRAFT
26	073	MI	ISABELLA	26	155	MI	SHIAWASSEE
26	075	MI	JACKSON	26	157	MI	TUSCOLA
26	077	MI	KALAMAZOO	26	159	MI	VAN BUREN
26	079	MI	KALKASKA	26	161	MI	WASHTENAW
26	081	MI	KENT	26	163	MI	WAYNE
26	083	MI	KEWEENAW	26	165	MI	WEXFORD

FIPS	State	County	FIPS	State	County
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name

**MINNESOTA**

27	000	MN	STATE TOTAL
27	001	MN	AITKIN
27	003	MN	ANOKA
27	005	MN	BECKER
27	007	MN	BELTRAMI
27	009	MN	BENTON
27	011	MN	BIG STONE
27	013	MN	BLUE EARTH
27	015	MN	BROWN
27	017	MN	CARLTON
27	019	MN	CARVER
27	021	MN	CASS
27	023	MN	CHIPPEWA
27	025	MN	CHISAGO
27	027	MN	CLAY
27	029	MN	CLEARWATER
27	031	MN	COOK
27	033	MN	COTTONWOOD
27	035	MN	CROW WING
27	037	MN	DAKOTA
27	039	MN	DODGE
27	041	MN	DOUGLAS
27	043	MN	FARIBAULT
27	045	MN	FILLMORE
27	047	MN	FREEBORN
27	049	MN	GOODHUE
27	051	MN	GRANT
27	053	MN	HENNEPIN
27	055	MN	HOUSTON
27	057	MN	HUBBARD
27	059	MN	ISANTI
27	061	MN	ITASCA
27	063	MN	JACKSON
27	065	MN	KANABEC
27	067	MN	KANDIYOHI
27	069	MN	KITTSOON
27	071	MN	KOOCHICHING
27	073	MN	LAC QUI PARLE
27	075	MN	LAKE

27	077	MN	LAKE OF THE WOODS
27	079	MN	LE SUEUR
27	081	MN	LINCOLN
27	083	MN	LYON
27	085	MN	MCLEOD
27	087	MN	MAHNOMEN
27	089	MN	MARSHALL
27	091	MN	MARTIN
27	093	MN	MEEKER
27	095	MN	MILLE LACS
27	097	MN	MORRISON
27	099	MN	MOWER
27	101	MN	MURRAY
27	103	MN	NICOLLET
27	105	MN	NOBLES
27	107	MN	NORMAN
27	109	MN	OLMSTED
27	111	MN	OTTER TAIL
27	113	MN	PENNINGTON
27	115	MN	PINE
27	117	MN	PIPESTONE
27	119	MN	POLK
27	121	MN	POPE
27	123	MN	RAMSEY
27	125	MN	RED LAKE
27	127	MN	REDWOOD
27	129	MN	RENVILLE
27	131	MN	RICE
27	133	MN	ROCK
27	135	MN	ROSEAU
27	137	MN	ST. LOUIS
27	139	MN	SCOTT
27	141	MN	SHERBURNE
27	143	MN	SIBLEY
27	145	MN	STEARNS
27	147	MN	STEELE
27	149	MN	STEVENS
27	151	MN	SWIFT
27	153	MN	TODD
27	155	MN	TRAVERSE
27	157	MN	WABASHA

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
27	159	MN	WADENA	28	061	MS	JASPER
27	161	MN	WASECA	28	063	MS	JEFFERSON
27	163	MN	WASHINGTON	28	065	MS	JEFFERSON DAVIS
27	165	MN	WATONWAN	28	067	MS	JONES
27	167	MN	WILKIN	28	069	MS	KEMPER
27	169	MN	WINONA	28	071	MS	LAFAYETTE
27	171	MN	WRIGHT	28	073	MS	LAMAR
27	173	MN	YELLOW MEDICINE	28	075	MS	LAUDERDALE
<b>MISSISSIPPI</b>				28	077	MS	LAWRENCE
28	000	MS	STATE TOTAL	28	079	MS	LEAKE
28	001	MS	ADAMS	28	081	MS	LEE
28	003	MS	ALCORN	28	083	MS	LEFLORE
28	005	MS	AMITE	28	085	MS	LINCOLN
28	007	MS	ATTALA	28	087	MS	LOWNDES
28	009	MS	BENTON	28	089	MS	MADISON
28	011	MS	BOLIVAR	28	091	MS	MARION
28	013	MS	CALHOUN	28	093	MS	MARSHALL
28	015	MS	CARROLL	28	095	MS	MONROE
28	017	MS	CHICKASAW	28	097	MS	MONTGOMERY
28	019	MS	CHOCTAW	28	099	MS	NESHOBA
28	021	MS	CLAIBORNE	28	101	MS	NEWTON
28	023	MS	CLARKE	28	103	MS	NOXUBEE
28	025	MS	CLAY	28	105	MS	OKTIBBEHA
28	027	MS	COAHOMA	28	107	MS	PANOLA
28	029	MS	COPIAH	28	109	MS	PEARL RIVER
28	031	MS	COVINGTON	28	111	MS	PERRY
28	033	MS	DE SOTO	28	113	MS	PIKE
28	035	MS	FORREST	28	115	MS	PONTOTOC
28	037	MS	FRANKLIN	28	117	MS	PRENTISS
28	039	MS	GEORGE	28	119	MS	QUITMAN
28	041	MS	GREENE	28	121	MS	RANKIN
28	043	MS	GRENADA	28	123	MS	SCOTT
28	045	MS	HANCOCK	28	125	MS	SHARKEY
28	047	MS	HARRISON	28	127	MS	SIMPSON
28	049	MS	HINDS	28	129	MS	SMITH
28	051	MS	HOLMES	28	131	MS	STONE
28	053	MS	HUMPHREYS	28	133	MS	SUNFLOWER
28	055	MS	ISSAQUENA	28	135	MS	TALLAHATCHIE
28	057	MS	ITAWAMBA	28	137	MS	TATE
28	059	MS	JACKSON	28	139	MS	TIPPAH
				28	141	MS	TISHOMINGO





FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
30	065	MT	MUSSELSHELL	31	027	NE	CEDAR
30	067	MT	PARK	31	029	NE	CHASE
30	069	MT	PETROLEUM	31	031	NE	CHERRY
30	071	MT	PHILLIPS	31	033	NE	CHEYENNE
30	073	MT	PONDERA	31	035	NE	CLAY
30	075	MT	POWDER RIVER	31	037	NE	COLFAX
30	077	MT	POWELL	31	039	NE	CUMING
30	079	MT	PRAIRIE	31	041	NE	CUSTER
30	081	MT	RAVALLI	31	043	NE	DAKOTA
30	083	MT	RICHLAND	31	045	NE	DAWES
30	085	MT	ROOSEVELT	31	047	NE	DAWSON
30	087	MT	ROSEBUD	31	049	NE	DEUEL
30	089	MT	SANDERS	31	051	NE	DIXON
30	091	MT	SHERIDAN	31	053	NE	DODGE
30	093	MT	SILVER BOW	31	055	NE	DOUGLAS
30	095	MT	STILLWATER	31	057	NE	DUNDY
30	097	MT	SWEET GRASS	31	059	NE	FILLMORE
30	099	MT	TETON	31	061	NE	FRANKLIN
30	101	MT	TOOLE	31	063	NE	FRONTIER
30	103	MT	TREASURE	31	065	NE	FURNAS
30	105	MT	VALLEY	31	067	NE	GAGE
30	107	MT	WHEATLAND	31	069	NE	GARDEN
30	109	MT	WIBAUX	31	071	NE	GARFIELD
30	111	MT	YELLOWSTONE	31	073	NE	GOSPER
30	113	MT	YELLOWSTONE N. PARK	31	075	NE	GRANT
<b>NEBRASKA</b>				31	077	NE	GREELEY
31	000	NE	STATE TOTAL	31	079	NE	HALL
31	001	NE	ADAMS	31	081	NE	HAMILTON
31	003	NE	ANTELOPE	31	083	NE	HARLAN
31	005	NE	ARTHUR	31	085	NE	HAYES
31	007	NE	BANNER	31	087	NE	HITCHCOCK
31	009	NE	BLAINE	31	089	NE	HOLT
31	011	NE	BOONE	31	091	NE	HOOKER
31	013	NE	BOX BUTTE	31	093	NE	HOWARD
31	015	NE	BOYD	31	095	NE	JEFFERSON
31	017	NE	BROWN	31	097	NE	JOHNSON
31	019	NE	BUFFALO	31	099	NE	KEARNEY
31	021	NE	BURT	31	101	NE	KEITH
31	023	NE	BUTLER	31	103	NE	KEYA PAHA
31	025	NE	CASS	31	105	NE	KIMBALL
				31	107	NE	KNOX









FIPS		State	County	FIPS		State	County
St	Cnty	Abbrv	Name	St	Cnty	Abbrv	Name
38	051	ND	MCINTOSH	39	021	OH	CHAMPAIGN
38	053	ND	MCKENZIE	39	023	OH	CLARK
38	055	ND	MCLEAN	39	025	OH	CLERMONT
38	057	ND	MERCER	39	027	OH	CLINTON
38	059	ND	MORTON	39	029	OH	COLUMBIANA
38	061	ND	MOUNTRAIL	39	031	OH	COSHOCTON
38	063	ND	NELSON	39	033	OH	CRAWFORD
38	065	ND	OLIVER	39	035	OH	CUYAHOGA
38	067	ND	PEMBINA	39	037	OH	DARKE
38	069	ND	PIERCE	39	039	OH	DEFIANCE
38	071	ND	RAMSEY	39	041	OH	DELAWARE
38	073	ND	RANSOM	39	043	OH	ERIE
38	075	ND	RENVILLE	39	045	OH	FAIRFIELD
38	077	ND	RICHLAND	39	047	OH	FAYETTE
38	079	ND	ROLETTE	39	049	OH	FRANKLIN
38	081	ND	SARGENT	39	051	OH	FULTON
38	083	ND	SHERIDAN	39	053	OH	GALLIA
38	085	ND	SIOUX	39	055	OH	GEAUGA
38	087	ND	SLOPE	39	057	OH	GREENE
38	089	ND	STARK	39	059	OH	GUERNSEY
38	091	ND	STEELE	39	061	OH	HAMILTON
38	093	ND	STUTSMAN	39	063	OH	HANCOCK
38	095	ND	TOWNER	39	065	OH	HARDIN
38	097	ND	TRAILL	39	067	OH	HARRISON
38	099	ND	WALSH	39	069	OH	HENRY
38	101	ND	WARD	39	071	OH	HIGHLAND
38	103	ND	WELLS	39	073	OH	HOCKING
38	105	ND	WILLIAMS	39	075	OH	HOLMES
<b>OHIO</b>				39	077	OH	HURON
39	000	OH	STATE TOTAL	39	079	OH	JACKSON
39	001	OH	ADAMS	39	081	OH	JEFFERSON
39	003	OH	ALLEN	39	083	OH	KNOX
39	005	OH	ASHLAND	39	085	OH	LAKE
39	007	OH	ASHTABULA	39	087	OH	LAWRENCE
39	009	OH	ATHENS	39	089	OH	LICKING
39	011	OH	AUGLAIZE	39	091	OH	LOGAN
39	013	OH	BELMONT	39	093	OH	LORAIN
39	015	OH	BROWN	39	095	OH	LUCAS
39	017	OH	BUTLER	39	097	OH	MADISON
39	019	OH	CARROLL	39	099	OH	MAHONING
				39	101	OH	MARION

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
39	103	OH	MEDINA	40	003	OK	ALFALFA
39	105	OH	MEIGS	40	005	OK	ATOKA
39	107	OH	MERCER	40	007	OK	BEAVER
39	109	OH	MIAMI	40	009	OK	BECKHAM
39	111	OH	MONROE	40	011	OK	BLAINE
39	113	OH	MONTGOMERY	40	013	OK	BRYAN
39	115	OH	MORGAN	40	015	OK	CADDO
39	117	OH	MORROW	40	017	OK	CANADIAN
39	119	OH	MUSKINGUM	40	019	OK	CARTER
39	121	OH	NOBLE	40	021	OK	CHEROKEE
39	123	OH	OTTAWA	40	023	OK	CHOCTAW
39	125	OH	PAULDING	40	025	OK	CIMARRON
39	127	OH	PERRY	40	027	OK	CLEVELAND
39	129	OH	PICKAWAY	40	029	OK	COAL
39	131	OH	PIKE	40	031	OK	COMANCHE
39	133	OH	PORTAGE	40	033	OK	COTTON
39	135	OH	PREBLE	40	035	OK	CRAIG
39	137	OH	PUTNAM	40	037	OK	CREEK
39	139	OH	RICHLAND	40	039	OK	CUSTER
39	141	OH	ROSS	40	041	OK	DELAWARE
39	143	OH	SANDUSKY	40	043	OK	DEWEY
39	145	OH	SCIOTO	40	045	OK	ELLIS
39	147	OH	SENECA	40	047	OK	GARFIELD
39	149	OH	SHELBY	40	049	OK	GARVIN
39	151	OH	STARK	40	051	OK	GRADY
39	153	OH	SUMMIT	40	053	OK	GRANT
39	155	OH	TRUMBULL	40	055	OK	GREER
39	157	OH	TUSCARAWAS	40	057	OK	HARMON
39	159	OH	UNION	40	059	OK	HARPER
39	161	OH	VAN WERT	40	061	OK	HASKELL
39	163	OH	VINTON	40	063	OK	HUGHES
39	165	OH	WARREN	40	065	OK	JACKSON
39	167	OH	WASHINGTON	40	067	OK	JEFFERSON
39	169	OH	WAYNE	40	069	OK	JOHNSTON
39	171	OH	WILLIAMS	40	071	OK	KAY
39	173	OH	WOOD	40	073	OK	KINGFISHER
39	175	OH	WYANDOT	40	075	OK	KIOWA
<b>OKLAHOMA</b>				40	077	OK	LATIMER
40	000	OK	STATE TOTAL	40	079	OK	LE FLORE
40	001	OK	ADAIR	40	081	OK	LINCOLN
				40	083	OK	LOGAN

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
40	085	OK	LOVE	41	007	OR	CLATSOP
40	087	OK	MCCLAIN	41	009	OR	COLUMBIA
40	089	OK	MCCURTAIN	41	011	OR	COOS
40	091	OK	MCINTOSH	41	013	OR	CROOK
40	093	OK	MAJOR	41	015	OR	CURRY
40	095	OK	MARSHALL	41	017	OR	DESCHUTES
40	097	OK	MAYES	41	019	OR	DOUGLAS
40	099	OK	MURRAY	41	021	OR	GILLIAM
40	101	OK	MUSKOGEE	41	023	OR	GRANT
40	103	OK	NOBLE	41	025	OR	HARNEY
40	105	OK	NOWATA	41	027	OR	HOOD RIVER
40	107	OK	OKFUSKEE	41	029	OR	JACKSON
40	109	OK	OKLAHOMA	41	031	OR	JEFFERSON
40	111	OK	OKMULGEE	41	033	OR	JOSEPHINE
40	113	OK	OSAGE	41	035	OR	KLAMATH
40	115	OK	OTTAWA	41	037	OR	LAKE
40	117	OK	PAWNEE	41	039	OR	LANE
40	119	OK	PAYNE	41	041	OR	LINCOLN
40	121	OK	PITTSBURG	41	043	OR	LINN
40	123	OK	PONTOTOC	41	045	OR	MALHEUR
40	125	OK	POTTAWATOMIE	41	047	OR	MARION
40	127	OK	PUSHMATAHA	41	049	OR	MORROW
40	129	OK	ROGER MILLS	41	051	OR	MULTNOMAH
40	131	OK	ROGERS	41	053	OR	POLK
40	133	OK	SEMINOLE	41	055	OR	SHERMAN
40	135	OK	SEQUOYAH	41	057	OR	TILLAMOOK
40	137	OK	STEPHENS	41	059	OR	UMATILLA
40	139	OK	TEXAS	41	061	OR	UNION
40	141	OK	TILLMAN	41	063	OR	WALLOWA
40	143	OK	TULSA	41	065	OR	WASCO
40	145	OK	WAGONER	41	067	OR	WASHINGTON
40	147	OK	WASHINGTON	41	069	OR	WHEELER
40	149	OK	WASHITA	41	071	OR	YAMHILL
40	151	OK	WOODS				
40	153	OK	WOODWARD				
<b>OREGON</b>				<b>PENNSYLVANIA</b>			
41	000	OR	STATE TOTAL	42	000	PA	STATE TOTAL
41	001	OR	BAKER	42	001	PA	ADAMS
41	003	OR	BENTON	42	003	PA	ALLEGHENY
41	005	OR	CLACKAMAS	42	005	PA	ARMSTRONG
				42	007	PA	BEAVER
				42	009	PA	BEDFORD



FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
45	019	SC	CHARLESTON	46	005	SD	BEADLE
45	021	SC	CHEROKEE	46	007	SD	BENNETT
45	023	SC	CHESTER	46	009	SD	BON HOMME
45	025	SC	CHESTERFIELD	46	011	SD	BROOKINGS
45	027	SC	CLARENDON	46	013	SD	BROWN
45	029	SC	COLLETON	46	015	SD	BRULE
45	031	SC	DARLINGTON	46	017	SD	BUFFALO
45	033	SC	DILLON	46	019	SD	BUTTE
45	035	SC	DORCHESTER	46	021	SD	CAMPBELL
45	037	SC	EDGEFIELD	46	023	SD	CHARLES MIX
45	039	SC	FAIRFIELD	46	025	SD	CLARK
45	041	SC	FLORENCE	46	027	SD	CLAY
45	043	SC	GEORGETOWN	46	029	SD	CODINGTON
45	045	SC	GREENVILLE	46	031	SD	CORSON
45	047	SC	GREENWOOD	46	033	SD	CUSTER
45	049	SC	HAMPTON	46	035	SD	DAVISON
45	051	SC	HORRY	46	037	SD	DAY
45	053	SC	JASPER	46	039	SD	DEUEL
45	055	SC	KERSHAW	46	041	SD	DEWEY
45	057	SC	LANCASTER	46	043	SD	DOUGLAS
45	059	SC	LAURENS	46	045	SD	EDMUNDS
45	061	SC	LEE	46	047	SD	FALL RIVER
45	063	SC	LEXINGTON	46	049	SD	FAULK
45	065	SC	MCCORMICK	46	051	SD	GRANT
45	067	SC	MARION	46	053	SD	GREGORY
45	069	SC	MARLBORO	46	055	SD	HAAKON
45	071	SC	NEWBERRY	46	057	SD	HAMLIN
45	073	SC	OCONEE	46	059	SD	HAND
45	075	SC	ORANGEBURG	46	061	SD	HANSON
45	077	SC	PICKENS	46	063	SD	HARDING
45	079	SC	RICHLAND	46	065	SD	HUGHES
45	081	SC	SALUDA	46	067	SD	HUTCHINSON
45	083	SC	SPARTANBURG	46	069	SD	HYDE
45	085	SC	SUMTER	46	071	SD	JACKSON
45	087	SC	UNION	46	073	SD	JERAULD
45	089	SC	WILLIAMSBURG	46	075	SD	JONES
45	091	SC	YORK	46	077	SD	KINGSBURY
<b>SOUTH DAKOTA</b>				46	079	SD	LAKE
46	000	SD	STATE TOTAL	46	081	SD	LAWRENCE
46	003	SD	AURORA	46	083	SD	LINCOLN
				46	085	SD	LYMAN

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
46	087	SD	MCCOOK	47	029	TN	COCKE
46	089	SD	MCPHERSON	47	031	TN	COFFEE
46	091	SD	MARSHALL	47	033	TN	CROCKETT
46	093	SD	MEADE	47	035	TN	CUMBERLAND
46	095	SD	MELLETTE	47	037	TN	DAVIDSON
46	097	SD	MINER	47	039	TN	DECATUR
46	099	SD	MINNEHAHA	47	041	TN	DE KALB
46	101	SD	MOODY	47	043	TN	DICKSON
46	103	SD	PENNINGTON	47	045	TN	DYER
46	105	SD	PERKINS	47	047	TN	FAYETTE
46	107	SD	POTTER	47	049	TN	FENTRESS
46	109	SD	ROBERTS	47	051	TN	FRANKLIN
46	111	SD	SANBORN	47	053	TN	GIBSON
46	113	SD	SHANNON	47	055	TN	GILES
46	115	SD	SPINK	47	057	TN	GRAINGER
46	117	SD	STANLEY	47	059	TN	GREENE
46	119	SD	SULLY	47	061	TN	GRUNDY
46	121	SD	TODD	47	063	TN	HAMBLEN
46	123	SD	TRIPP	47	065	TN	HAMILTON
46	125	SD	TURNER	47	067	TN	HANCOCK
46	127	SD	UNION	47	069	TN	HARDEMAN
46	129	SD	WALWORTH	47	071	TN	HARDIN
46	135	SD	YANKTON	47	073	TN	HAWKINS
46	137	SD	ZIEBACH	47	075	TN	HAYWOOD
<b>TENNESSEE</b>				47	077	TN	HENDERSON
47	000	TN	STATE TOTAL	47	079	TN	HENRY
47	001	TN	ANDERSON	47	081	TN	HICKMAN
47	003	TN	BEDFORD	47	083	TN	HOUSTON
47	005	TN	BENTON	47	085	TN	HUMPHREYS
47	007	TN	BLEDSE	47	087	TN	JACKSON
47	009	TN	BLOUNT	47	089	TN	JEFFERSON
47	011	TN	BRADLEY	47	091	TN	JOHNSON
47	013	TN	CAMPBELL	47	093	TN	KNOX
47	015	TN	CANNON	47	095	TN	LAKE
47	017	TN	CARROLL	47	097	TN	LAUDERDALE
47	019	TN	CARTER	47	099	TN	LAWRENCE
47	021	TN	CHEATHAM	47	101	TN	LEWIS
47	023	TN	CHESTER	47	103	TN	LINCOLN
47	025	TN	CLAIBORNE	47	105	TN	LOUDON
47	027	TN	CLAY	47	107	TN	MCMINN
				47	109	TN	MCNAIRY

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
47	111	TN	MACON	<b>TEXAS</b>			
47	113	TN	MADISON	48	000	TX	STATE TOTAL
47	115	TN	MARION	48	001	TX	ANDERSON
47	117	TN	MARSHALL	48	003	TX	ANDREWS
47	119	TN	MAURY	48	005	TX	ANGELINA
47	121	TN	MEIGS	48	007	TX	ARANSAS
47	123	TN	MONROE	48	009	TX	ARCHER
47	125	TN	MONTGOMERY	48	011	TX	ARMSTRONG
47	127	TN	MOORE	48	013	TX	ATASCOSA
47	129	TN	MORGAN	48	015	TX	AUSTIN
47	131	TN	OBION	48	017	TX	BAILEY
47	133	TN	OVERTON	48	019	TX	BANDERA
47	135	TN	PERRY	48	021	TX	BASTROP
47	137	TN	PICKETT	48	023	TX	BAYLOR
47	139	TN	POLK	48	025	TX	BEE
47	141	TN	PUTNAM	48	027	TX	BELL
47	143	TN	RHEA	48	029	TX	BEXAR
47	145	TN	ROANE	48	031	TX	BLANCO
47	147	TN	ROBERTSON	48	033	TX	BORDEN
47	149	TN	RUTHERFORD	48	035	TX	BOSQUE
47	151	TN	SCOTT	48	037	TX	BOWIE
47	153	TN	SEQUATCHIE	48	039	TX	BRAZORIA
47	155	TN	SEVIER	48	041	TX	BRAZOS
47	157	TN	SHELBY	48	043	TX	BREWSTER
47	159	TN	SMITH	48	045	TX	BRISCOE
47	161	TN	STEWART	48	047	TX	BROOKS
47	163	TN	SULLIVAN	48	049	TX	BROWN
47	165	TN	SUMNER	48	051	TX	BURLESON
47	167	TN	TIPTON	48	053	TX	BURNET
47	169	TN	TROUSDALE	48	055	TX	CALDWELL
47	171	TN	UNICOI	48	057	TX	CALHOUN
47	173	TN	UNION	48	059	TX	CALLAHAN
47	175	TN	VAN BUREN	48	061	TX	CAMERON
47	177	TN	WARREN	48	063	TX	CAMP
47	179	TN	WASHINGTON	48	065	TX	CARSON
47	181	TN	WAYNE	48	067	TX	CASS
47	183	TN	WEAKLEY	48	069	TX	CASTRO
47	185	TN	WHITE	48	071	TX	CHAMBERS
47	187	TN	WILLIAMSON	48	073	TX	CHEROKEE
47	189	TN	WILSON	48	075	TX	CHILDRESS
				48	077	TX	CLAY

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
48	079	TX	COCHRAN	48	161	TX	FREESTONE
48	081	TX	COKE	48	163	TX	FRIO
48	083	TX	COLEMAN	48	165	TX	GAINES
48	085	TX	COLLIN	48	167	TX	GALVESTON
48	087	TX	COLLINGSWORTH	48	169	TX	GARZA
48	089	TX	COLORADO	48	171	TX	GILLESPIE
48	091	TX	COMAL	48	173	TX	GLASSCOCK
48	093	TX	COMANCHE	48	175	TX	GOLIAD
48	095	TX	CONCHO	48	177	TX	GONZALES
48	097	TX	COOKE	48	179	TX	GRAY
48	099	TX	CORYELL	48	181	TX	GRAYSON
48	101	TX	COTTLE	48	183	TX	GREGG
48	103	TX	CRANE	48	185	TX	GRIMES
48	105	TX	CROCKETT	48	187	TX	GUADALUPE
48	107	TX	CROSBY	48	189	TX	HALE
48	109	TX	CULBERSON	48	191	TX	HALL
48	111	TX	DALLAM	48	193	TX	HAMILTON
48	113	TX	DALLAS	48	195	TX	HANSFORD
48	115	TX	DAWSON	48	197	TX	HARDEMAN
48	117	TX	DEAF SMITH	48	199	TX	HARDIN
48	119	TX	DELTA	48	201	TX	HARRIS
48	121	TX	DENTON	48	203	TX	HARRISON
48	123	TX	DE WITT	48	205	TX	HARTLEY
48	125	TX	DICKENS	48	207	TX	HASKELL
48	127	TX	DIMMIT	48	209	TX	HAYS
48	129	TX	DONLEY	48	211	TX	HEMPHILL
48	131	TX	DUVAL	48	213	TX	HENDERSON
48	133	TX	EASTLAND	48	215	TX	HIDALGO
48	135	TX	ECTOR	48	217	TX	HILL
48	137	TX	EDWARDS	48	219	TX	HOCKLEY
48	139	TX	ELLIS	48	221	TX	HOOD
48	141	TX	EL PASO	48	223	TX	HOPKINS
48	143	TX	ERATH	48	225	TX	HOUSTON
48	145	TX	FALLS	48	227	TX	HOWARD
48	147	TX	FANNIN	48	229	TX	HUDSPETH
48	149	TX	FAYETTE	48	231	TX	HUNT
48	151	TX	FISHER	48	233	TX	HUTCHINSON
48	153	TX	FLOYD	48	235	TX	IRION
48	155	TX	FOARD	48	237	TX	JACK
48	157	TX	FORT BEND	48	239	TX	JACKSON
48	159	TX	FRANKLIN	48	241	TX	JASPER

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
48	243	TX	JEFF DAVIS	48	325	TX	MEDINA
48	245	TX	JEFFERSON	48	327	TX	MENARD
48	247	TX	JIM HOGG	48	329	TX	MIDLAND
48	249	TX	JIM WELLS	48	331	TX	MILAM
48	251	TX	JOHNSON	48	333	TX	MILLS
48	253	TX	JONES	48	335	TX	MITCHELL
48	255	TX	KARNES	48	337	TX	MONTAGUE
48	257	TX	KAUFMAN	48	339	TX	MONTGOMERY
48	259	TX	KENDALL	48	341	TX	MOORE
48	261	TX	KENEDY	48	343	TX	MORRIS
48	263	TX	KENT	48	345	TX	MOTLEY
48	265	TX	KERR	48	347	TX	NACOGDOCHES
48	267	TX	KIMBLE	48	349	TX	NAVARRO
48	269	TX	KING	48	351	TX	NEWTON
48	271	TX	KINNEY	48	353	TX	NOLAN
48	273	TX	KLEBERG	48	355	TX	NUECES
48	275	TX	KNOX	48	357	TX	OCHILTREE
48	277	TX	LAMAR	48	359	TX	OLDHAM
48	279	TX	LAMB	48	361	TX	ORANGE
48	281	TX	LAMPASAS	48	363	TX	PALO PINTO
48	283	TX	LA SALLE	48	365	TX	PANOLA
48	285	TX	LAVACA	48	367	TX	PARKER
48	287	TX	LEE	48	369	TX	PARMER
48	289	TX	LEON	48	371	TX	PECOS
48	291	TX	LIBERTY	48	373	TX	POLK
48	293	TX	LIMESTONE	48	375	TX	POTTER
48	295	TX	LIPSCOMB	48	377	TX	PRESIDIO
48	297	TX	LIVE OAK	48	379	TX	RAINS
48	299	TX	LLANO	48	381	TX	RANDALL
48	301	TX	LOVING	48	383	TX	REAGAN
48	303	TX	LUBBOCK	48	385	TX	REAL
48	305	TX	LYNN	48	387	TX	RED RIVER
48	307	TX	MCCULLOCH	48	389	TX	REEVES
48	309	TX	MCLENNAN	48	391	TX	REFUGIO
48	311	TX	MCMULLEN	48	393	TX	ROBERTS
48	313	TX	MADISON	48	395	TX	ROBERTSON
48	315	TX	MARION	48	397	TX	ROCKWALL
48	317	TX	MARTIN	48	399	TX	RUNNELS
48	319	TX	MASON	48	401	TX	RUSK
48	321	TX	MATAGORDA	48	403	TX	SABINE
48	323	TX	MAVERICK	48	405	TX	SAN AUGUSTINE



FIPS	State	County	FIPS	State	County
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name
49	057	UT WEBER	51	041	VA CHESTERFIELD
<b>VERMONT</b>			51	043	VA CLARKE
50	000	VT STATE TOTAL	51	045	VA CRAIG
50	001	VT ADDISON	51	047	VA CULPEPER
50	003	VT BENNINGTON	51	049	VA CUMBERLAND
50	005	VT CALEDONIA	51	051	VA DICKENSON
50	007	VT CHITTENDEN	51	053	VA DINWIDDIE
50	009	VT ESSEX	51	057	VA ESSEX
50	011	VT FRANKLIN	51	059	VA FAIRFAX
50	013	VT GRAND ISLE	51	061	VA FAUQUIER
50	015	VT LAMOILLE	51	063	VA FLOYD
50	017	VT ORANGE	51	065	VA FLUVANNA
50	019	VT ORLEANS	51	067	VA FRANKLIN
50	021	VT RUTLAND	51	069	VA FREDERICK
50	023	VT WASHINGTON	51	071	VA GILES
50	025	VT WINDHAM	51	073	VA GLOUCESTER
50	027	VT WINDSOR	51	075	VA GOOCHLAND
<b>VIRGINIA</b>			51	077	VA GRAYSON
51	000	VA STATE TOTAL	51	079	VA GREENE
51	001	VA ACCOMACK	51	081	VA GREENSVILLE
51	003	VA ALBEMARLE	51	083	VA HALIFAX
51	005	VA ALLEGHANY	51	085	VA HANOVER
51	007	VA AMELIA	51	087	VA HENRICO
51	009	VA AMHERST	51	089	VA HENRY
51	011	VA APPOMATTOX	51	091	VA HIGHLAND
51	013	VA ARLINGTON	51	093	VA ISLE OF WIGHT
51	015	VA AUGUSTA	51	095	VA JAMES CITY
51	017	VA BATH	51	097	VA KING AND QUEEN
51	019	VA BEDFORD	51	099	VA KING GEORGE
51	021	VA BLAND	51	101	VA KING WILLIAM
51	023	VA BOTETOURT	51	103	VA LANCASTER
51	025	VA BRUNSWICK	51	105	VA LEE
51	027	VA BUCHANAN	51	107	VA LOUDOUN
51	029	VA BUCKINGHAM	51	109	VA LOUISA
51	031	VA CAMPBELL	51	111	VA LUNENBURG
51	033	VA CAROLINE	51	113	VA MADISON
51	035	VA CARROLL	51	115	VA MATHEWS
51	036	VA CHARLES CITY	51	117	VA MECKLENBURG
51	037	VA CHARLOTTE	51	119	VA MIDDLESEX
			51	121	VA MONTGOMERY
			51	125	VA NELSON



FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
53	011	WA	CLARK	54	009	WV	BROOKE
53	013	WA	COLUMBIA	54	011	WV	CABELL
53	015	WA	COWLITZ	54	013	WV	CALHOUN
53	017	WA	DOUGLAS	54	015	WV	CLAY
53	019	WA	FERRY	54	017	WV	DODDRIDGE
53	021	WA	FRANKLIN	54	019	WV	FAYETTE
53	023	WA	GARFIELD	54	021	WV	GILMER
53	025	WA	GRANT	54	023	WV	GRANT
53	027	WA	GRAYS HARBOR	54	025	WV	GREENBRIER
53	029	WA	ISLAND	54	027	WV	HAMPSHIRE
53	031	WA	JEFFERSON	54	029	WV	HANCOCK
53	033	WA	KING	54	031	WV	HARDY
53	035	WA	KITSAP	54	033	WV	HARRISON
53	037	WA	KITTITAS	54	035	WV	JACKSON
53	039	WA	KLICKITAT	54	037	WV	JEFFERSON
53	041	WA	LEWIS	54	039	WV	KANAWHA
53	043	WA	LINCOLN	54	041	WV	LEWIS
53	045	WA	MASON	54	043	WV	LINCOLN
53	047	WA	OKANOGAN	54	045	WV	LOGAN
53	049	WA	PACIFIC	54	047	WV	MCDOWELL
53	051	WA	PEND OREILLE	54	049	WV	MARION
53	053	WA	PIERCE	54	051	WV	MARSHALL
53	055	WA	SAN JUAN	54	053	WV	MASON
53	057	WA	SKAGIT	54	055	WV	MERCER
53	059	WA	SKAMANIA	54	057	WV	MINERAL
53	061	WA	SNOHOMISH	54	059	WV	MINGO
53	063	WA	SPOKANE	54	061	WV	MONONGALIA
53	065	WA	STEVENS	54	063	WV	MONROE
53	067	WA	THURSTON	54	065	WV	MORGAN
53	069	WA	WAHKIAKUM	54	067	WV	NICHOLAS
53	071	WA	WALLA WALLA	54	069	WV	OHIO
53	073	WA	WHATCOM	54	071	WV	PENDLETON
53	075	WA	WHITMAN	54	073	WV	PLEASANTS
53	077	WA	YAKIMA	54	075	WV	POCAHONTAS
<b>WEST VIRGINIA</b>				54	077	WV	PRESTON
54	000	WV	STATE TOTAL	54	079	WV	PUTNAM
54	001	WV	BARBOUR	54	081	WV	RALEIGH
54	003	WV	BERKELEY	54	083	WV	RANDOLPH
54	005	WV	BOONE	54	085	WV	RITCHIE
54	007	WV	BRAXTON	54	087	WV	ROANE
				54	089	WV	SUMMERS

FIPS	State	County	FIPS	State	County		
St	Cnty	Abbrv Name	St	Cnty	Abbrv Name		
54	091	WV	TAYLOR	55	057	WI	JUNEAU
54	093	WV	TUCKER	55	059	WI	KENOSHA
54	095	WV	TYLER	55	061	WI	KEWAUNEE
54	097	WV	UPSHUR	55	063	WI	LA CROSSE
54	099	WV	WAYNE	55	065	WI	LAFAYETTE
54	101	WV	WEBSTER	55	067	WI	LANGLADE
54	103	WV	WETZEL	55	069	WI	LINCOLN
54	105	WV	WIRT	55	071	WI	MANITOWOC
54	107	WV	WOOD	55	073	WI	MARATHON
54	109	WV	WYOMING	55	075	WI	MARINETTE
<b>WISCONSIN</b>				55	077	WI	MARQUETTE
55	000	WI	STATE TOTAL	55	078	WI	MENOMINEE
55	001	WI	ADAMS	55	079	WI	MILWAUKEE
55	003	WI	ASHLAND	55	081	WI	MONROE
55	005	WI	BARRON	55	083	WI	OCONTO
55	007	WI	BAYFIELD	55	085	WI	ONEIDA
55	009	WI	BROWN	55	087	WI	OUTAGAMIE
55	011	WI	BUFFALO	55	089	WI	OZAUKEE
55	013	WI	BURNETT	55	091	WI	PEPIN
55	015	WI	CALUMET	55	093	WI	PIERCE
55	017	WI	CHIPPEWA	55	095	WI	POLK
55	019	WI	CLARK	55	097	WI	PORTAGE
55	021	WI	COLUMBIA	55	099	WI	PRICE
55	023	WI	CRAWFORD	55	101	WI	RACINE
55	025	WI	DANE	55	103	WI	RICHLAND
55	027	WI	DODGE	55	105	WI	ROCK
55	029	WI	DOOR	55	107	WI	RUSK
55	031	WI	DOUGLAS	55	109	WI	ST. CROIX
55	033	WI	DUNN	55	111	WI	SAUK
55	035	WI	EAU CLAIRE	55	113	WI	SAWYER
55	037	WI	FLORENCE	55	115	WI	SHAWANO
55	039	WI	FOND DU LAC	55	117	WI	SHEBOYGAN
55	041	WI	FOREST	55	119	WI	TAYLOR
55	043	WI	GRANT	55	121	WI	TREMPEALEAU
55	045	WI	GREEN	55	123	WI	VERNON
55	047	WI	GREEN LAKE	55	125	WI	VILAS
55	049	WI	IOWA	55	127	WI	WALWORTH
55	051	WI	IRON	55	129	WI	WASHBURN
55	053	WI	JACKSON	55	131	WI	WASHINGTON
55	055	WI	JEFFERSON	55	133	WI	WAUKESHA
				55	135	WI	WAUPACA

FIPS				FIPS			
St	Cnty	State Abbrv	County Name	St	Cnty	State Abbrv	County Name
55	137	WI	WAUSHARA	56	019	WY	JOHNSON
55	139	WI	WINNEBAGO	56	021	WY	LARAMIE
55	141	WI	WOOD	56	023	WY	LINCOLN
<b>WYOMING</b>				56	025	WY	NATRONA
56	000	WY	STATE TOTAL	56	027	WY	NIOBRARA
56	001	WY	ALBANY	56	029	WY	PARK
56	003	WY	BIG HORN	56	031	WY	PLATTE
56	005	WY	CAMPBELL	56	033	WY	SHERIDAN
56	007	WY	CARBON	56	035	WY	SUBLETTE
56	009	WY	CONVERSE	56	037	WY	SWEETWATER
56	011	WY	CROOK	56	039	WY	TETON
56	013	WY	FREMONT	56	041	WY	UINTA
56	015	WY	GOSHEN	56	043	WY	WASHAKIE
56	017	WY	HOT SPRINGS	56	045	WY	WESTON

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