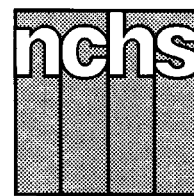


Monthly Vital Statistics Report



Preliminary Data From the CENTERS FOR DISEASE CONTROL AND PREVENTION/National Center for Health Statistics

Births and Deaths: United States, July 1996–June 1997

by Robert N. Anderson, Ph.D.; Stephanie J. Ventura, A.M.; Kimberley D. Peters;
and T. J. Mathews, M.S., Division of Vital Statistics

Abstract

Objectives—This report presents preliminary data on births and deaths in the United States from the National Center for Health Statistics (NCHS) for the 12 months ending June 1997. U.S. data on births are shown by age, race, and Hispanic origin of mother. National and State data on marital status, prenatal care, cesarean delivery, and low birthweight are also presented. Mortality data presented include life expectancy, leading causes of death, and infant mortality.

Methods—Data in this report are based on 89–98 percent samples of births and deaths in the United States for the 12 months ending June 1997. The records are weighted to independent control counts of births, infant deaths, and total deaths received in State vital statistics offices from July 1996 to June 1997.

Results—Preliminary data for July 1996–June 1997 show that the birth rate for teenagers dropped 3 percent. Birth rates for women aged 20–34 years increased 1 to 2 percent, whereas rates for women aged 35–49 years rose 4 percent. The number of births to unmarried women and the percent of all births to unmarried women each increased about 1 percent, while the birth rate for unmarried women increased slightly. The rate of prenatal care utilization continued to improve. The overall low birthweight rate increased to 7.5 percent.

The preliminary infant mortality rate declined by 5 percent. A record low infant mortality rate was achieved for the black population. Life expectancy reached a record high of 76.2 years. The largest declines in age-adjusted death rates among the leading causes of death were for Human immunodeficiency virus (HIV) infection (44 percent) and homicide (10 percent). Smaller declines were noted for other leading causes of death. The age-adjusted death rate increased for Pneumonia and influenza, Chronic obstructive pulmonary diseases, kidney disease, and Alzheimer's disease.

Keywords: births • deaths • vital statistics

Introduction

This report presents preliminary data on births and deaths based on a substantial sample of vital records. This series, which is published biannually by NCHS, includes detailed tabulations from the preliminary natality and mortality files. This report is the fourth in the series and shows preliminary data for the 12-month period from July 1996 to June 1997.

Sources and methods

The preliminary data in this series are based on records of births and deaths that occurred during the period July 1996–June 1997 and were received and processed by NCHS as of December 1, 1997. This represents about 98 percent of the births that occurred in the United States during this 12-month period. Demographic information is available for about 94 percent of infant deaths and about 95 percent of deaths to persons aged 1

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year and over. For these death records, medical or cause-of-death information is processed separately and is available for about 89 percent of infant deaths and about 91 percent of deaths to persons aged 1 year and over.

To produce the preliminary estimates shown in this report, records in each of the files were weighted using independent control counts of births, infant deaths, and total deaths received in the State vital statistics offices from July 1996 through June 1997. Two separate sets of weights were applied to the death records—one set for the demographic information and one set for the medical information. This results in slight inconsistencies between comparable data from the mortality demographic and medical tables (see [Technical notes](#)). Preliminary estimates are subject to sampling variation as well as random variation.

Cause of death is not always available when the preliminary data are sent to NCHS, but is available later for final data processing. As a result, estimates based on preliminary mortality data may differ from statistics that come from the final mortality data. Sampling bias tends to affect certain causes of death where the cause is pending investigation, such as homicides, suicides, accidents, HIV infection, and Sudden infant death syndrome (SIDS). To account for sampling bias, correction factors that may be applied to these causes are included in the [Technical notes](#). NCHS is currently exploring procedures for correcting possible sampling bias for other causes of death.

In addition to national and State estimates of total births and birth rates, this report includes preliminary statistics on births by age, live-birth order, marital status, race, Hispanic origin, and selected maternal and infant health characteristics: receipt of prenatal care, cesarean delivery, and low birthweight. Mortality data in this report are also more detailed than in the provisional data reports, with more information on life expectancy, infant mortality, and causes of death. Race and Hispanic origin are reported as separate items on the birth and death certificates. Data for Hispanic origin are also included in the data for each race group, according to the mother's reported race for births and the decedent's reported race for deaths (see [Technical notes](#)).

State-specific preliminary data are shown only for those States and areas for which at least 75 percent of the records for the 12-month period ending June 1996 have been processed. The number of death records processed for California was below the 75-percent criterion and are therefore not included in the State-specific tabulations, but are included in the U.S. totals. Detailed information on the nature, sources, and qualifications of the preliminary data is given in the [Technical notes](#).

Results

Natality patterns

The preliminary number of **births** in the United States during the 12-month period ending June 1997 totaled 3,903,260, about 1 percent more than the preliminary number for the 12-month period ending June 1996 (3,881,967) ([table A](#)). The **crude birth rate** for the 12 months ending June 1997 declined slightly to 14.6 births per 1,000 population, compared with 14.7 for the 12 months ending a year earlier. The **fertility rate**—defined as the number of births per 1,000 women aged 15–44 years—was 65.4 for the 12 months ending June 1997, slightly higher than the rate for the 12 months ending June 1996 (65.2). (See [tables 1–4](#) for births, birth rates, and fertility rates.) Birth and fertility rates by State for the two time periods are shown in [table 4](#).

Fertility rates for the 12 months ending June 1997 for white (64.3), black (71.2), Asian or Pacific Islander (API) women (66.1), and Hispanic women (104.8) were each up to 1 percent higher compared with the 12 months ending June 1996. The rate for American Indian women (68.5) declined 1 percent.

The **birth rate for teenagers** for the 12-month period ending June 1997 was 53.5 births per 1,000 women aged 15–19 years, 3 percent lower than the rate for the comparable period ending in June 1996 (55.2) ([table 1](#)). Birth rates for teenagers have been declining since 1991. **Rates for teenage subgroups 10–14, 15–17, and 18–19 years** continued to fall as well. The rate for the youngest group, 10–14 years, was 1.1 per 1,000 for the 12 months ending June 1997 compared with

1.3 for the same period ending June 1996. The rate for teenagers 15–17 years for the 12-month period ending June 1997, 33.2 per 1,000, was 4 percent lower than the rate for the same period ending June 1996 (34.6). The rate for older teenagers 18–19 years declined 2 percent, from 87.1 to 85.0 per 1,000.

Birth rates for teenagers 15–19 years fell 2 percent for black teenagers (90.6) and 3 percent for white teenagers (47.3). Rates declined 4 percent for API (24.8) and Hispanic teenagers (100.1), and 5 percent for American Indian teenagers (72.6). Rates for teenage subgroups by race and Hispanic origin declined, but there was no clear pattern in the changes. Among white, black, and Hispanic teenagers, declines were larger for younger than for older teenagers. The rate for American Indian teenagers 18–19 years dropped 8 percent.

Birth rates for women aged 20–24 and 25–29 years, the principal childbearing ages, increased 1 and 2 percent, respectively, between the 12 months ending June 1996 and the same period ending a year later. The rate for women aged 20–24 years increased from 110.0 to 110.9, and the rate for women aged 25–29 years rose from 112.2 to 114.1 per 1,000 ([table 1](#)).

Birth rates for women aged 30–34 and 35–39 years increased 2 and 4 percent, respectively, to 84.8 and 36.0 per 1,000. Birth rates for women in their thirties in the 12-month period ending June 1997 were higher than any observed in about three decades (1). The **birth rate for women aged 40–44 years** increased from 6.7 to 7.0 per 1,000.

Concurrent with the declines in teenage birth rates and increases in birth rates for women aged 20 years and over, the proportion of all births occurring to women under age 20 years declined from 13.0 to 12.8 percent ([table A](#)). The proportions of births to teenagers by State for the 12-month periods ending June 1996 and June 1997 are shown in [table 5](#).

The **total fertility rate** provides an estimate of lifetime childbearing. It is computed by assuming that a hypothetical group of 1,000 women will experience throughout their childbearing years the age-specific birth rates observed at a single point in time. The rate for the

Table A. Total births and percent of births with selected demographic and health characteristics, by race and Hispanic origin of mother: United States, preliminary data for 12 months ending June 1996 and 1997

| Characteristic | All races ¹ | | White | | Black | | Hispanic ² | |
|---|------------------------|-----------|-----------|-----------|---------|---------|-----------------------|---------|
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| | Number | | | | | | | |
| Births | 3,903,260 | 3,881,967 | 3,094,579 | 3,088,653 | 601,998 | 592,246 | 710,019 | 688,584 |
| | Percent | | | | | | | |
| Births to mothers under 20 years . . . | 12.8 | 13.0 | 11.2 | 11.4 | 22.6 | 23.0 | 17.2 | 17.7 |
| Births to unmarried mothers | 32.5 | 32.3 | 25.8 | 25.6 | 69.7 | 69.8 | 41.0 | 41.0 |
| Low birthweight ³ | 7.5 | 7.3 | 6.4 | 6.3 | 13.0 | 13.0 | 6.3 | 6.3 |
| Very low birthweight ⁴ | 1.39 | 1.36 | 1.10 | 1.08 | 2.99 | 2.97 | 1.11 | 1.13 |
| Births delivered by cesarean | 20.7 | 20.7 | 20.7 | 20.6 | 21.8 | 21.7 | 20.1 | 20.0 |
| Prenatal care beginning in first trimester | 82.3 | 81.5 | 84.5 | 83.7 | 71.8 | 70.9 | 73.1 | 71.2 |
| Prenatal care beginning in third trimester or no care | 3.9 | 4.2 | 3.2 | 3.5 | 7.3 | 7.5 | 6.4 | 7.2 |

¹Includes races other than white and black.
²Persons of Hispanic origin may be of any race; race and Hispanic origin are reported separately on the birth certificate. Data for persons of Hispanic origin are also included in the data for each race group, according to the mother's reported race; see [Technical notes](#).
³Birthweight of less than 2,500 grams (5 lb 8 oz).
⁴Birthweight of less than 1,500 grams (3 lb 4 oz).

12-month period ending June 1997 was 2,038.5, 1 percent higher than the rate for the comparable period ending June 1996, 2,018.0. Rates increased 1 percent for white (2,015.5), black (2,166.5), and Hispanic women (3,053.5). The rate for American Indian women (2,029.0) declined slightly whereas the rate for API women (1,915.0) increased slightly.

The **preliminary number of births to unmarried women** for the 12 months ending June 1997 was 1,269,971, 1 percent more than for the 12-month period ending June 1996 (1,252,418). The **proportion of all births to unmarried women** rose from 32.3 to 32.5 percent ([tables A and B](#)). The proportion for white births increased from 25.6 to 25.8 percent. The proportion for black births declined slightly, from 69.8 to 69.7 percent, while the proportion for Hispanic births was unchanged at 41.0 percent ([table 6](#)).

The **preliminary birth rate for unmarried women** in the 12-month period ending June 1997 was 44.3 births per 1,000 unmarried women aged 15–44 years, less than 1 percent higher than the rate for the same period ending in 1996 (44.2).

The procedures for reporting marital status in California changed beginning January 1, 1997. Up to that date, the mother's marital status was inferred by comparing the surnames of the mother, father, and child. Beginning in 1997, two changes were implemented. First, a law went into effect mandating that the father's name could not be included on the birth

certificate unless either the parents were married or a paternity affidavit was filed. Second, a direct question on the mother's marital status, similar to the one in effect in most other States, was added to the California birth certificate (see [Technical notes](#)). Reporting procedures for marital status in California are now essentially the same as those in most other States.

Because California accounts for 14 percent of U.S. births, birth data by marital status were compared for the two 6-month periods, July–December 1996 and January–June 1997, to determine the effect of this reporting change on the national data. These changes did not affect the total numbers and proportions of non-marital births for the United States as a whole or for California, but they did affect the data by age in different ways. There was a tendency for the proportions to increase between the two 6-month periods for teenagers and women aged 20–24 years, and for the proportions to

decrease for women aged 25–44 years. This was a real change—it was found for the balance of all States (exclusive of California). However, the pattern is much more pronounced in the data for California. The effect of this change will be described in more detail in the next report of preliminary birth data, which will include data for the full 1997 calendar year.

The preliminary number of births to unmarried teenagers (under 20 years) was less than 1 percent higher in the 12-month period ending June 1997 than the same period ending June 1996 ([table B](#)). Births to unmarried teenagers under 15 years declined 9 percent, while births to teenagers 15–17 years declined very slightly. The number of births to older unmarried teenagers, 18–19 years, increased 2 percent. The percent of all teenage births occurring to unmarried women was higher in the current 12-month period (77.3 percent) than in the earlier 12-month period

Table B. Number and percent of births to unmarried women, all ages and women under 20 years: United States, preliminary data for 12 months ending June 1996 and 1997

[Figures for 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age of mother | Number | | Percent | |
|--------------------------|-----------|-----------|---------|------|
| | 1997 | 1996 | 1997 | 1996 |
| All ages | 1,269,971 | 1,252,418 | 32.5 | 32.3 |
| Under 20 years | 386,379 | 384,486 | 77.3 | 76.0 |
| Under 15 years | 10,090 | 11,037 | 94.6 | 93.9 |
| 15–19 years | 376,289 | 373,449 | 76.9 | 75.5 |
| 15–17 years | 157,338 | 158,517 | 85.6 | 84.1 |
| 18–19 years | 218,952 | 214,932 | 71.6 | 70.3 |

(76.0 percent) because total births to teenagers declined 1 percent while births to unmarried teenagers increased slightly. Birth rates for unmarried teenagers for the 12-month periods ending June 1996 and June 1997 are not yet available; see [Technical notes](#).

The preliminary proportions of births to unmarried women in 36 States, Puerto Rico, the Virgin Islands, and Guam were higher for the 12 months ending June 1997 compared with June 1996, while the proportions in 10 States and the District of Columbia were lower. There was no change in the proportions in four States ([table 6](#)).

The **low-birthweight rate** was 7.5 percent for the 12 months ending June 1997, 3 percent higher than for the 12 months ending June 1996 ([table A](#)). For more than a decade the percent low birthweight (birthweight of less than 2,500 grams or 5 pounds 8 ounces) has risen steadily, from 6.7 percent in 1984. Low birthweight did not change for black or Hispanic births at 13.0 and 6.3 percent, respectively. The rate for white births rose slightly from 6.3 to 6.4 percent. All age groups, except those 25 to 29 years of age, showed increases in low birthweight. The percent low birthweight was 10.0 percent or more in the District of Columbia, Louisiana, and Puerto Rico ([table 7](#)).

The **cesarean delivery rate** remained steady at 20.7 percent for the latest period ([table A](#)). The rates for black, Hispanic, and white births showed very little change between the two time periods ([table 8](#)). The cesarean rate had been declining since 1989 (22.8 percent). The primary cesarean rate remained the same at 14.6, but the rate of vaginal birth after cesarean decreased from 28.2 to 27.9. Rates by State are shown in [table 8](#).

The proportion of mothers beginning **prenatal care in the first trimester** of pregnancy rose for the latest period, to 82.3 percent ([table A](#)). Initiation of prenatal care during the first trimester has improved throughout the 1990's, from 75.5 percent in 1989. This rise has been observed for black, Hispanic, and white mothers. All age groups, except those under 15 years, showed increases in early care receipt. Most States showed a rise in the percent of mothers receiving first

trimester prenatal care between the two time periods ([table 9](#)).

Mortality patterns

The preliminary number of **deaths** in the United States for the 12 months ending June 1997 totaled 2,334,722, an increase of 17,097 more than the 12-month period ending June 1996. The **crude death rate** of 876.1 per 100,000 population dropped slightly from the rate of 877.3 per 100,000 in the previous 12-month period. The age-adjusted death rate, which accounts for changes in the age distribution of the population, was 487.9 per 100,000 U.S. standard population, a record low for the United States. Age-adjusted death rates are better indicators than crude death rates for showing changes in the risk of death over time when the age distribution of the population is changing and for comparing the mortality of subgroups of the population that have different age compositions. The age-adjusted death rate for the previous 12-month period was 498.7. (See [tables C, D, and 10–18](#) for mortality data.)

The decline in the U.S. age-adjusted death rate continues the long-term downward trend in mortality, and reflects statistically significant reductions in mortality for black, white, and Hispanic males, as well as black and Hispanic females. Age-adjusted death rates for Hispanic males declined by 8 percent, for black males by 6 percent, and for white males by 3 percent. The decline for Hispanic females was 6 percent and for black females, 3 percent. Changes in the age-adjusted death rate for white females, American Indians, and Asian and Pacific Islanders were not statistically significant.

The overall reductions in mortality between the 12 months ending June 1996 and the 12 months ending June 1997 were the result of declines for most age groups under 85 years. The greatest declines for both males and females occurred in the 25–34 year age group where the age-specific death rates declined by 14 percent and 9 percent, respectively.

Preliminary estimates of life expectancy at birth for the 12-month period ending June 1997 increased to another record high of 76.2 years, compared with

75.9 years in the 12-month period ending June 1996 ([tables C and 16](#)). The previous record high life expectancy was 76.1 years recorded for calendar year 1996 (2). Record high life expectancies were reached for white and black males and for black females (74.0 years, 66.7 years, and 74.4 years, respectively). For white females, life expectancy has remained unchanged at 79.6 years since 1994, slightly below the record high of 79.8 years reached in 1992.

The **15 leading causes of death** for the 12 months ending June 1997 were Diseases of heart (heart disease); Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (cancer); Cerebrovascular diseases (stroke); Chronic obstructive pulmonary disease and allied conditions (COPD); Accidents and adverse effects; Pneumonia and influenza; Diabetes mellitus; Suicide; Nephritis, nephrotic syndrome, and nephrosis (kidney disease); Chronic liver disease and cirrhosis; Alzheimer's disease; Septicemia (blood poisoning); Human immunodeficiency virus infection (HIV); Homicide and legal intervention (homicide); and Atherosclerosis ([table D](#)). Although the 15 leading causes for the 12 months ending June 1997 were the same as in the previous 12-month period, the order changed somewhat. Of particular note, HIV infection dropped from the 8th leading cause of death in the 12-month period ending June 1996 to the 13th leading cause in the 12-month period ending June 1997. Homicide dropped from 12th to 14th, Alzheimer's disease rose from 14th to 11th, kidney disease rose from 11th to 9th, and both suicide and septicemia each rose one place in the ranking.

Reductions occurred in a number of the leading causes of death. From July 1996 to June 1997, the preliminary age-adjusted death rate for the leading cause of death, **heart disease**, declined by 3 percent, while the age-adjusted death rate for **cancer** declined by about 2 percent ([tables D and 11](#)). Together the deaths from these two diseases combined accounted for more than 1.2 million deaths, which is more than half of the total deaths that occurred in the 12-month period ending June 1997. While heart

Table C. Deaths, age-adjusted death rates, and life expectancy at birth, by race and sex and infant mortality rate, United States, preliminary data for 12 months ending June 1996 and 1997

| Measure and sex | All races ¹ | | White | | Black | |
|---|------------------------|-----------|-----------------------|-----------|-----------------------|---------|
| | 12 months ending June | | 12 months ending June | | 12 months ending June | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| All deaths | 2,334,722 | 2,317,625 | 2,016,109 | 1,993,233 | 278,369 | 285,588 |
| Age-adjusted death rate ² | 487.9 | 498.7 | 465.1 | 472.8 | 718.8 | 755.2 |
| Male | 616.1 | 636.4 | 586.4 | 602.5 | 935.4 | 996.5 |
| Female | 380.7 | 383.3 | 363.1 | 363.7 | 551.2 | 567.4 |
| Life expectancy at birth ³ | 76.2 | 75.9 | 76.9 | 76.7 | 70.7 | 69.9 |
| Male | 73.3 | 72.8 | 74.0 | 73.6 | 66.7 | 65.6 |
| Female | 79.1 | 79.0 | 79.6 | 79.6 | 74.4 | 74.0 |
| All infant deaths | 27,902 | 29,047 | 18,630 | 19,243 | 8,281 | 8,834 |
| Infant mortality rate ⁴ | 7.1 | 7.5 | 6.0 | 6.2 | 13.8 | 14.9 |

¹Includes races other than white and black.
²Age-adjusted death rates are per 100,000 U.S. standard million population. For method of computation, see [Technical notes](#).
³Life expectancy at birth stated in years.
⁴Infant mortality rates are deaths under 1 year per 1,000 live births in specified group.

Table D. Deaths, death rates, and age-adjusted death rates for the 12 months ending June 1997 for the 15 leading causes of death, and percent changes in age-adjusted death rates from 12 months ending June 1996 to 12 months ending June 1997: United States

[Data are based on a continuous file of records received from the States. Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see [Technical notes](#). For explanation of asterisks preceding cause-of-death categories, see [Technical notes](#). Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to the totals]

| Rank ¹ | Causes of Death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>) | Number | Death rate | Age-adjusted death rate | | |
|-------------------|---|-----------|------------|-------------------------|---------------------|----------------|
| | | | | July 1996–June 1997 | July 1995–June 1996 | Percent change |
| ... | All causes | 2,334,716 | 876.1 | 487.5 | 498.7 | -2.2 |
| 1 | Diseases of heart (390–398, 402, 404–429) | 735,384 | 276.0 | 132.9 | 136.4 | -2.6 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140–208) | 540,656 | 202.9 | 126.9 | 129.1 | -1.7 |
| 3 | Cerebrovascular diseases (430–438) | 161,681 | 60.7 | 26.3 | 26.6 | -1.1 |
| 4 | Chronic obstructive pulmonary diseases and allied conditions (490–496) | 110,259 | 41.4 | 21.5 | 20.6 | 4.4 |
| 5 | Accidents and adverse effects (E800–E949) | 93,597 | 35.1 | 29.6 | 30.9 | -4.2 |
| | Motor vehicle accidents (E810–E825) | 43,415 | 16.3 | 16.0 | 16.4 | -2.4 |
| | All other accidents and adverse effects (E800–E807, E826–E949) | 50,182 | 18.8 | 13.6 | 14.4 | -5.6 |
| 6 | Pneumonia and influenza (480–487) | 88,878 | 33.4 | 13.3 | 12.7 | 4.7 |
| 7 | Diabetes mellitus (250) | 62,570 | 23.5 | 13.6 | 13.5 | 0.7 |
| 8 | Suicide (E950–E959) | 30,246 | 11.3 | 10.5 | 11.0 | -4.5 |
| 9 | Nephritis, nephrotic syndrome, and nephrosis (580–589) | 25,550 | 9.6 | 4.5 | 4.2 | 7.1 |
| 10 | Chronic liver disease and cirrhosis (571) | 24,803 | 9.3 | 7.3 | 7.7 | -5.2 |
| 11 | Alzheimer's disease (331.0) | 22,638 | 8.5 | 2.8 | 2.7 | 3.7 |
| 12 | Septicemia (038) | 22,630 | 8.5 | 4.3 | 4.0 | 7.5 |
| 13 | Human immunodeficiency virus infection (*042–*044) | 22,567 | 8.5 | 8.0 | 14.2 | -43.7 |
| 14 | Homicide and legal intervention (E960–E978) | 20,002 | 7.5 | 8.1 | 9.0 | -10.0 |
| 15 | Atherosclerosis (440) | 16,424 | 6.2 | 2.1 | 2.2 | -4.5 |
| ... | All other causes | 356,831 | 133.9 | --- | --- | --- |

... Category not applicable.
 --- Data not available.
¹Rank based on number of deaths; see [Technical notes](#).

disease mortality has followed a consistent downward trend since 1950, cancer mortality has declined only since 1990.

The preliminary age-adjusted death rate for **HIV infection** showed a very large decline of 44 percent in the period from July 1996 to June 1997 ([table D](#)). Although delays in reporting HIV deaths may have resulted in a slight overestimate, this decline is consistent with a previous vital statistics report based on provisional data (3). In addition, the

decline is consistent with trends based on preliminary mortality data for the period July 1995 to June 1996 and for the 1996 calendar year which shows that the decline in HIV mortality was 9 percent and 26 percent, respectively (2,4).

The preliminary age-adjusted death rates dropped for **homicide** by 10 percent and for **suicide** by 5 percent. The decline in mortality due to both homicide and suicide continues the downward trend reported for the 1995 and 1996 calendar

years (2,5). Age-adjusted death rates declined for **Accidents and adverse effects** by 4 percent following the general downward trend in accident mortality since the 1980's. Declines were also noted for deaths due to **Chronic liver disease and cirrhosis** (5 percent) and **Atherosclerosis** (5 percent).

The age-adjusted death rate increased from July 1996 to June 1997 for **Pneumonia and influenza** by 5 percent. This increase was likely the result of an

influenza epidemic during the 1996–97 winter season (6). Age-adjusted death rates increased also for COPD by 4 percent, for **kidney disease** by 7 percent, and for **Alzheimer's disease** by 4 percent (table 11). The increase in Alzheimer's disease mortality is consistent with the long-term upward trend since 1979 and may reflect changes in diagnostic practices rather than real increases from this cause of death.

During the 12-month period ending June 1997, preliminary age-adjusted death rates decreased appreciably for **firearm injuries** (7 percent), **drug-induced causes** (7 percent), and **alcohol-induced causes** (5 percent) (table 11). The final rates for these causes may change when 100 percent of death records are received for this period.

Among the major race and ethnic groups, the lowest mortality was reported for the Asian and Pacific Islander and Hispanic populations. Preliminary age-adjusted death rates for these groups were 41 percent and 25 percent lower, respectively, than that for the white population. In contrast, the age-adjusted death rate for the black population was 55 percent higher than that for the white population. Mortality for race (other than white and black) and ethnic groups may be substantially understated due to inconsistencies in reporting race on censuses, population surveys, and vital statistics (7).

The preliminary **infant mortality rate** for the 12-month period ending June 1997 was 7.1 infant deaths per 1,000 live births, a 5 percent decline from the previous 12-month period (7.5) (table C and 14). Declines occurred among neonates (infant deaths under 28 days of age) as well as for postneonates (aged 28 days–11 months). The white infant mortality rate declined by about 3 percent from 6.2 per 1,000 live births to 6.0, whereas the black infant mortality rate declined 7 percent from 14.9 to 13.8. The change in the Hispanic infant mortality rate was not statistically significant. Because of inconsistencies in reporting Hispanic origin on birth and death certificates, infant mortality rates for Hispanic origin should be interpreted with caution (7).

The leading cause of infant mortality, **Congenital anomalies**, accounted for 22 percent of all infant deaths and declined

by 4 percent from July 1996 to June 1997 (table 18). The infant mortality rate for **Sudden infant death syndrome (SIDS)**, which accounted for 10 percent of all infant deaths, declined by almost 15 percent. While deaths due to SIDS have been declining since 1989, part of the decline in the 12-month period ending June 1997 may be attributable to delays in receiving cause-of-death information for these deaths in the preliminary data file. **Disorders related to short gestation and unspecified low birthweight**, the second leading cause of death for all infants, but the leading cause of death for black infants, declined by 4 percent in the 12-month period ending June 1997.

Death rates by place of residence were lowest in Alaska, with a crude death rate of 418.0 per 100,000 population, and were highest in the District of Columbia where the crude death rate was 1,216.3. However, comparisons of crude death rates between States may be misleading due to differences in age composition. Age-adjusted death rates are better indicators of relative mortality risk between States. When the crude death rates are standardized for differences in age composition among States, **Hawaii** had the lowest mortality, with an age-adjusted death rate of 386.5 deaths per 100,000 U.S. standard population. Mortality in the **District of Columbia** remained the highest in the United States, with an age-adjusted death rate of 764.3 per 100,000 U.S. standard population (table 13).

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Table 1. Births and birth rates, by age, race, and Hispanic origin of mother: United States, preliminary data for 12 months ending June 1996 and 1997

[Data for 1997 are based on a continuous file of records received from the States. Figures for 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age and race/Hispanic origin | 1997 | | 1996 | |
|------------------------------------|-----------|-------|-----------|-------|
| | Number | Rate | Number | Rate |
| All races | | | | |
| 15-44 years ¹ | 3,903,260 | 65.4 | 3,881,967 | 65.2 |
| 10-14 years | 10,666 | 1.1 | 11,759 | 1.3 |
| 15-19 years | 489,458 | 53.5 | 494,423 | 55.2 |
| 15-17 years | 183,855 | 33.2 | 188,492 | 34.6 |
| 18-19 years | 305,603 | 85.0 | 305,931 | 87.1 |
| 20-24 years | 944,174 | 110.9 | 951,215 | 110.0 |
| 25-29 years | 1,076,467 | 114.1 | 1,062,982 | 112.2 |
| 30-34 years | 897,133 | 84.8 | 899,940 | 83.4 |
| 35-39 years | 407,763 | 36.0 | 389,471 | 34.5 |
| 40-44 years | 74,372 | 7.0 | 69,303 | 6.7 |
| 45-49 years | 3,228 | 0.3 | 2,874 | 0.3 |
| White | | | | |
| 15-44 years ¹ | 3,094,579 | 64.3 | 3,088,653 | 64.2 |
| 10-14 years | 5,322 | 0.7 | 5,746 | 0.8 |
| 15-19 years | 341,875 | 47.3 | 347,351 | 48.9 |
| 15-17 years | 121,939 | 27.8 | 125,199 | 29.1 |
| 18-19 years | 219,936 | 77.2 | 222,152 | 79.6 |
| 20-24 years | 723,345 | 107.4 | 732,958 | 107.0 |
| 25-29 years | 879,670 | 117.0 | 872,921 | 115.2 |
| 30-34 years | 745,354 | 87.3 | 750,297 | 85.7 |
| 35-39 years | 336,429 | 36.3 | 321,185 | 34.7 |
| 40-44 years | 60,006 | 6.8 | 55,899 | 6.5 |
| 45-49 years | 2,578 | 0.3 | 2,296 | 0.3 |
| Black | | | | |
| 15-44 years ¹ | 601,998 | 71.2 | 592,246 | 70.6 |
| 10-14 years | 4,935 | 3.4 | 5,580 | 3.9 |
| 15-19 years | 130,995 | 90.6 | 130,555 | 92.2 |
| 15-17 years | 55,358 | 63.5 | 56,987 | 66.0 |
| 18-19 years | 75,637 | 132.0 | 73,568 | 133.0 |
| 20-24 years | 181,406 | 138.9 | 179,141 | 135.5 |
| 25-29 years | 135,728 | 99.8 | 131,711 | 97.0 |
| 30-34 years | 95,094 | 64.2 | 94,450 | 63.6 |
| 35-39 years | 44,824 | 29.7 | 42,633 | 28.4 |
| 40-44 years | 8,674 | 6.4 | 7,908 | 6.1 |
| 45-49 years | 342 | 0.3 | 268 | 0.3 |
| American Indian² | | | | |
| 15-44 years ¹ | 38,003 | 68.5 | 37,734 | 68.9 |
| 10-14 years | 208 | 1.8 | 194 | 1.7 |
| 15-19 years | 7,736 | 72.6 | 7,798 | 76.2 |
| 15-17 years | 3,126 | 46.2 | 3,027 | 46.4 |
| 18-19 years | 4,611 | 118.6 | 4,771 | 128.3 |
| 20-24 years | 12,208 | 134.5 | 12,019 | 132.3 |
| 25-29 years | 8,888 | 98.4 | 8,792 | 98.8 |
| 30-34 years | 5,798 | 63.5 | 5,812 | 62.7 |
| 35-39 years | 2,630 | 28.6 | 2,572 | 28.3 |
| 40-44 years | 516 | 6.2 | 528 | 6.5 |
| 45-49 years | 17 | * | 19 | * |
| Asian or Pacific Islander | | | | |
| 15-44 years ¹ | 168,681 | 66.1 | 163,334 | 65.9 |
| 10-14 years | 201 | 0.5 | 239 | 0.6 |
| 15-19 years | 8,851 | 24.8 | 8,719 | 25.7 |
| 15-17 years | 3,432 | 15.5 | 3,279 | 15.6 |
| 18-19 years | 5,420 | 40.3 | 5,440 | 41.7 |
| 20-24 years | 27,214 | 71.4 | 27,097 | 70.0 |
| 25-29 years | 52,181 | 111.8 | 49,558 | 111.0 |
| 30-34 years | 50,887 | 108.9 | 49,381 | 108.8 |
| 35-39 years | 23,879 | 52.7 | 23,081 | 52.2 |
| 40-44 years | 5,176 | 12.1 | 4,968 | 12.1 |
| 45-49 years | 291 | 0.8 | 291 | 0.8 |

See footnotes at end of table.

Table 1. Births and birth rates, by age, race, and Hispanic origin of mother: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data for 1997 are based on a continuous file of records received from the States. Figures for 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age and race/Hispanic origin | 1997 | | 1996 | |
|--------------------------------|---------|-------|---------|-------|
| | Number | Rate | Number | Rate |
| Hispanic ³ | | | | |
| 15-44 years ¹ | 710,019 | 104.8 | 688,584 | 104.4 |
| 10-14 years | 2,963 | 2.5 | 3,155 | 2.7 |
| 15-19 years | 118,931 | 100.1 | 118,979 | 103.8 |
| 15-17 years | 48,567 | 67.9 | 48,649 | 71.0 |
| 18-19 years | 70,364 | 148.9 | 70,330 | 152.6 |
| 20-24 years | 216,519 | 189.1 | 210,367 | 187.5 |
| 25-29 years | 188,314 | 163.3 | 181,162 | 157.8 |
| 30-34 years | 121,633 | 98.8 | 116,991 | 96.7 |
| 35-39 years | 51,118 | 45.5 | 48,043 | 44.5 |
| 40-44 years | 10,100 | 10.8 | 9,506 | 10.7 |
| 45-49 years | 442 | 0.6 | 381 | 0.5 |

- Quantity zero.

* Figure does not meet standards of reliability or precision.

¹ Numbers include births to women of all ages. Fertility rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

² Includes births to Aleuts and Eskimos.

³ Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 2. Live births by age of mother, live-birth order, and race and Hispanic origin of mother: United States, preliminary data for 12 months ending June 1997

[Data are based on a continuous file of records received from the States. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Live-birth order and race/Hispanic origin of mother | All ages | Age of mother | | | | | | | |
|---|-----------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Under 15 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years |
| All races | 3,903,260 | 10,666 | 489,458 | 944,174 | 1,076,467 | 897,133 | 407,763 | 74,372 | 3,228 |
| First child | 1,588,171 | 10,352 | 379,917 | 439,161 | 403,756 | 249,613 | 89,346 | 15,367 | 660 |
| Second child | 1,259,453 | 238 | 89,231 | 321,001 | 373,066 | 324,139 | 130,820 | 20,302 | 655 |
| Third child | 630,345 | 7 | 15,330 | 127,702 | 186,827 | 189,528 | 95,036 | 15,369 | 546 |
| Fourth child and over | 405,148 | 1 | 2,409 | 51,926 | 107,610 | 129,046 | 90,050 | 22,782 | 1,324 |
| Not stated | 20,143 | 68 | 2,571 | 4,383 | 5,209 | 4,808 | 2,511 | 551 | 42 |
| White | 3,094,579 | 5,322 | 341,875 | 723,345 | 879,670 | 745,354 | 336,429 | 60,006 | 2,578 |
| First child | 1,266,107 | 5,185 | 273,006 | 351,227 | 338,940 | 209,354 | 74,906 | 12,935 | 554 |
| Second child | 1,018,486 | 100 | 57,831 | 249,867 | 311,410 | 273,275 | 108,847 | 16,620 | 536 |
| Third child | 500,495 | 4 | 8,304 | 90,083 | 150,488 | 159,525 | 79,398 | 12,247 | 446 |
| Fourth child and over | 294,463 | - | 1,025 | 29,043 | 74,958 | 99,395 | 71,275 | 17,757 | 1,010 |
| Not stated | 15,028 | 33 | 1,710 | 3,124 | 3,875 | 3,804 | 2,004 | 447 | 32 |
| Black | 601,998 | 4,935 | 130,995 | 181,406 | 135,728 | 95,094 | 44,824 | 8,674 | 342 |
| First child | 232,028 | 4,779 | 93,888 | 67,562 | 36,059 | 20,600 | 7,810 | 1,276 | 54 |
| Second child | 174,497 | 117 | 28,524 | 59,342 | 42,893 | 29,374 | 12,215 | 1,965 | 66 |
| Third child | 101,732 | 3 | 6,515 | 32,965 | 28,806 | 21,221 | 10,258 | 1,911 | 53 |
| Fourth child and over | 89,472 | 1 | 1,249 | 20,397 | 26,916 | 23,155 | 14,153 | 3,439 | 162 |
| Not stated | 4,268 | 35 | 819 | 1,140 | 1,054 | 744 | 388 | 83 | 7 |
| American Indian ¹ | 38,003 | 208 | 7,736 | 12,208 | 8,888 | 5,798 | 2,630 | 516 | 17 |
| First child | 13,670 | 203 | 6,032 | 4,465 | 1,761 | 866 | 294 | 47 | 3 |
| Second child | 10,318 | 5 | 1,435 | 4,429 | 2,552 | 1,317 | 499 | 80 | 2 |
| Third child | 6,500 | - | 224 | 2,188 | 2,145 | 1,331 | 526 | 88 | - |
| Fourth child and over | 7,407 | - | 31 | 1,101 | 2,399 | 2,268 | 1,295 | 301 | 12 |
| Not stated | 108 | - | 15 | 26 | 31 | 17 | 17 | 1 | - |
| Asian or Pacific Islander | 168,681 | 201 | 8,851 | 27,214 | 52,181 | 50,887 | 23,879 | 5,176 | 291 |
| First child | 76,366 | 185 | 6,991 | 15,907 | 26,996 | 18,792 | 6,336 | 1,110 | 49 |
| Second child | 56,153 | 15 | 1,442 | 7,364 | 16,211 | 20,173 | 9,259 | 1,637 | 51 |
| Third child | 21,618 | - | 288 | 2,466 | 5,389 | 7,451 | 4,854 | 1,123 | 47 |
| Fourth child and over | 13,805 | - | 103 | 1,385 | 3,337 | 4,227 | 3,326 | 1,285 | 141 |
| Not stated | 739 | 1 | 27 | 93 | 248 | 243 | 103 | 20 | 3 |
| Hispanic ² | 710,019 | 2,963 | 118,931 | 216,519 | 188,314 | 121,633 | 51,118 | 10,100 | 442 |
| First child | 267,890 | 2,869 | 89,564 | 93,769 | 50,231 | 22,905 | 7,253 | 1,258 | 41 |
| Second child | 213,767 | 71 | 23,784 | 76,480 | 64,292 | 35,239 | 12,002 | 1,834 | 66 |
| Third child | 127,085 | 3 | 4,059 | 32,303 | 44,156 | 31,798 | 12,623 | 2,076 | 67 |
| Fourth child and over | 97,130 | - | 612 | 12,644 | 28,635 | 31,103 | 18,993 | 4,882 | 261 |
| Not stated | 4,147 | 20 | 912 | 1,322 | 999 | 588 | 248 | 51 | 7 |

- Quantity zero.

¹ Includes births to Aleuts and Eskimos.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 3. Birth rates by age of mother, live-birth order, and race and Hispanic origin of mother: United States, preliminary data for 12 months ending June 1997

[Data are based on a continuous file of records received from the States. Rates per 1,000 women in specified age and racial group]

| Live-birth order and race/Hispanic origin of mother | Age of mother | | | | | | | | |
|---|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 15-44 years ¹ | 10-14 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years |
| All races | 65.4 | 1.1 | 53.5 | 110.9 | 114.1 | 84.8 | 36.0 | 7.0 | 0.3 |
| First child | 26.8 | 1.1 | 41.8 | 51.8 | 43.0 | 23.7 | 7.9 | 1.4 | 0.1 |
| Second child | 21.2 | 0.0 | 9.8 | 37.9 | 39.7 | 30.8 | 11.6 | 1.9 | 0.1 |
| Third child | 10.6 | * | 1.7 | 15.1 | 19.9 | 18.0 | 8.4 | 1.4 | 0.1 |
| Fourth child and over | 6.8 | * | 0.3 | 6.1 | 11.5 | 12.3 | 8.0 | 2.1 | 0.1 |
| White | 64.3 | 0.7 | 47.3 | 107.4 | 117.0 | 87.3 | 36.3 | 6.8 | 0.3 |
| First child | 26.5 | 0.7 | 37.9 | 52.4 | 45.3 | 24.7 | 8.1 | 1.5 | 0.1 |
| Second child | 21.3 | 0.0 | 8.0 | 37.3 | 41.6 | 32.2 | 11.8 | 1.9 | 0.1 |
| Third child | 10.5 | * | 1.2 | 13.4 | 20.1 | 18.8 | 8.6 | 1.4 | 0.1 |
| Fourth child and over | 6.2 | * | 0.1 | 4.3 | 10.0 | 11.7 | 7.7 | 2.0 | 0.1 |
| Black | 71.2 | 3.4 | 90.6 | 138.9 | 99.8 | 64.2 | 29.7 | 6.4 | 0.3 |
| First child | 27.6 | 3.3 | 65.4 | 52.1 | 26.7 | 14.0 | 5.2 | 0.9 | 0.0 |
| Second child | 20.8 | 0.1 | 19.9 | 45.7 | 31.8 | 20.0 | 8.2 | 1.5 | 0.1 |
| Third child | 12.1 | * | 4.5 | 25.4 | 21.4 | 14.4 | 6.9 | 1.4 | 0.0 |
| Fourth child and over | 10.7 | * | 0.9 | 15.7 | 20.0 | 15.8 | 9.5 | 2.6 | 0.1 |
| American Indian ² | 68.5 | 1.8 | 72.6 | 134.5 | 98.4 | 63.5 | 28.6 | 6.2 | * |
| First child | 24.7 | 1.7 | 56.7 | 49.3 | 19.6 | 9.5 | 3.2 | 0.6 | * |
| Second child | 18.7 | * | 13.5 | 48.9 | 28.4 | 14.5 | 5.5 | 1.0 | * |
| Third child | 11.8 | * | 2.1 | 24.1 | 23.8 | 14.6 | 5.8 | 1.1 | * |
| Fourth child and over | 13.4 | * | 0.3 | 12.1 | 26.7 | 24.9 | 14.2 | 3.6 | * |
| Asian or Pacific Islander ... | 66.1 | 0.5 | 24.8 | 71.4 | 111.8 | 108.9 | 52.7 | 12.1 | 0.8 |
| First child | 30.1 | 0.5 | 19.7 | 41.9 | 58.1 | 40.4 | 14.0 | 2.6 | 0.1 |
| Second child | 22.1 | * | 4.1 | 19.4 | 34.9 | 43.4 | 20.5 | 3.8 | 0.1 |
| Third child | 8.5 | * | 0.8 | 6.5 | 11.6 | 16.0 | 10.8 | 2.6 | 0.1 |
| Fourth child and over | 5.4 | * | 0.3 | 3.6 | 7.2 | 9.1 | 7.4 | 3.0 | 0.4 |
| Hispanic ³ | 104.8 | 2.5 | 100.1 | 189.1 | 163.3 | 98.8 | 45.5 | 10.8 | 0.6 |
| First child | 39.8 | 2.4 | 76.0 | 82.4 | 43.8 | 18.7 | 6.5 | 1.4 | 0.1 |
| Second child | 31.7 | 0.1 | 20.2 | 67.2 | 56.0 | 28.8 | 10.7 | 2.0 | 0.1 |
| Third child | 18.9 | * | 3.4 | 28.4 | 38.5 | 25.9 | 11.3 | 2.2 | 0.1 |
| Fourth child and over | 14.4 | * | 0.5 | 11.1 | 25.0 | 25.4 | 17.0 | 5.2 | 0.4 |

* Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less than 0.05.

¹ Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

² Includes births to Aleuts and Eskimos.

³ Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 4. Live births by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1997, and birth and fertility rates, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States. Birth rates per 1,000 total population; fertility rates per 1,000 women aged 15-44 years. Figures for 1996 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Area | Number | | | | | | Birth rate | | Fertility rate | |
|----------------------------|-----------|-----------|---------|------------------------------|---------------------------|-----------------------|-----------------------|------|----------------|-------|
| | All races | White | Black | American Indian ¹ | Asian or Pacific Islander | Hispanic ² | 12 months ending June | | | |
| | | | | | | | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 3,903,260 | 3,094,579 | 601,998 | 38,003 | 168,681 | 710,019 | 14.6 | 14.7 | 65.4 | 65.2 |
| Alabama | 60,766 | 40,262 | 19,842 | 135 | 527 | 1,029 | 14.2 | 14.1 | 62.4 | 61.5 |
| Alaska | 9,993 | 6,620 | 468 | 2,404 | 501 | 601 | 16.5 | 16.7 | 71.4 | 72.1 |
| Arizona | 74,430 | 65,342 | 2,390 | 5,209 | 1,488 | 28,012 | 16.8 | 17.6 | 76.2 | 81.5 |
| Arkansas | 36,573 | 28,069 | 7,919 | 210 | 375 | 1,410 | 14.6 | 14.4 | 67.5 | 66.3 |
| California | 532,561 | 433,068 | 38,085 | 3,281 | 58,126 | 252,929 | 16.7 | 17.3 | 73.8 | 75.7 |
| Colorado | 56,313 | 51,533 | 2,575 | 580 | 1,625 | 12,927 | 14.7 | 14.7 | 64.2 | 63.2 |
| Connecticut | 45,832 | 38,777 | 5,546 | 105 | 1,404 | 5,981 | 14.0 | 13.6 | 63.6 | 61.2 |
| Delaware | 10,273 | 7,587 | 2,472 | 11 | 203 | 645 | 14.2 | 14.2 | 60.5 | 60.8 |
| District of Columbia | 8,332 | 2,035 | 6,156 | 1 | 140 | 749 | 15.3 | 15.7 | 61.9 | 63.0 |
| Florida | 192,438 | 144,472 | 43,344 | 691 | 3,931 | 36,732 | 13.4 | 13.3 | 65.6 | 64.7 |
| Georgia | 116,888 | 74,637 | 39,585 | 210 | 2,456 | 6,741 | 15.9 | 15.6 | 66.1 | 64.4 |
| Hawaii | 17,793 | 4,614 | 535 | 189 | 12,454 | 2,179 | 15.0 | 15.6 | 70.1 | 71.9 |
| Idaho | 18,601 | 18,015 | 58 | 284 | 243 | 2,331 | 15.6 | 15.8 | 71.2 | 72.0 |
| Illinois | 183,141 | 140,604 | 36,118 | 231 | 6,187 | 33,256 | 15.5 | 15.5 | 69.0 | 68.4 |
| Indiana | 81,010 | 70,505 | 9,443 | 132 | 931 | 3,214 | 13.9 | 14.3 | 60.9 | 62.3 |
| Iowa | 37,014 | 34,993 | 1,081 | 206 | 734 | 1,537 | 13.0 | 12.9 | 60.3 | 59.6 |
| Kansas | 37,000 | 33,067 | 2,768 | 309 | 856 | 3,399 | 14.4 | 14.2 | 65.7 | 64.9 |
| Kentucky | 53,199 | 47,834 | 4,772 | 86 | 507 | 658 | 13.7 | 13.5 | 60.0 | 58.9 |
| Louisiana | 65,535 | 37,353 | 26,885 | 292 | 1,005 | 1,242 | 15.1 | 14.9 | 65.4 | 64.4 |
| Maine | 13,717 | 13,400 | 94 | 81 | 142 | 117 | 11.0 | 11.1 | 49.3 | 49.4 |
| Maryland | 71,061 | 45,362 | 22,975 | 179 | 2,545 | 3,315 | 14.0 | 14.2 | 59.7 | 59.8 |
| Massachusetts | 82,029 | 70,490 | 7,600 | 178 | 3,761 | 8,119 | 13.5 | 13.3 | 58.3 | 57.2 |
| Michigan | 133,366 | 105,654 | 24,428 | 766 | 2,518 | 5,235 | 13.9 | 14.0 | 61.1 | 60.7 |
| Minnesota | 64,726 | 57,667 | 3,223 | 1,074 | 2,762 | 2,579 | 13.9 | 13.7 | 61.5 | 60.4 |
| Mississippi | 41,409 | 21,761 | 19,096 | 187 | 365 | 309 | 15.2 | 15.1 | 66.3 | 65.7 |
| Missouri | 73,301 | 61,122 | 10,744 | 260 | 1,175 | 1,600 | 13.7 | 13.8 | 61.7 | 61.8 |
| Montana | 10,875 | 9,477 | 35 | 1,259 | 104 | 283 | 12.4 | 12.7 | 58.6 | 59.8 |
| Nebraska | 23,531 | 21,509 | 1,242 | 366 | 413 | 1,951 | 14.2 | 14.2 | 64.8 | 64.4 |
| Nevada | 24,924 | 21,210 | 1,939 | 399 | 1,377 | 6,883 | 15.5 | 16.8 | 72.0 | 77.0 |
| New Hampshire | 14,422 | 14,114 | 109 | 23 | 176 | 233 | 12.4 | 12.7 | 52.9 | 53.8 |
| New Jersey | 116,214 | 86,992 | 21,524 | 195 | 7,503 | 20,131 | 14.5 | 14.4 | 65.9 | 64.3 |
| New Mexico | 27,306 | 23,183 | 508 | 3,216 | 399 | 13,353 | 15.9 | 16.1 | 71.9 | 72.2 |
| New York | 265,382 | 190,610 | 56,626 | 581 | 17,564 | 52,500 | 14.6 | 14.7 | 65.0 | 65.1 |
| North Carolina | 107,763 | 76,281 | 27,767 | 1,622 | 2,092 | 6,319 | 14.7 | 14.3 | 64.9 | 62.3 |
| North Dakota | 8,412 | 7,434 | 92 | 785 | 102 | 149 | 13.1 | 13.1 | 61.0 | 61.0 |
| Ohio | 152,519 | 129,086 | 21,236 | 269 | 1,928 | 3,086 | 13.7 | 13.6 | 60.6 | 60.2 |
| Oklahoma | 46,865 | 37,118 | 4,488 | 4,471 | 787 | 3,085 | 14.2 | 13.9 | 65.9 | 63.9 |
| Oregon | 43,907 | 40,458 | 946 | 708 | 1,795 | 5,640 | 13.7 | 13.8 | 63.1 | 62.9 |
| Pennsylvania | 145,427 | 121,454 | 20,404 | 243 | 3,327 | 6,674 | 12.1 | 12.4 | 55.9 | 57.2 |
| Rhode Island | 12,464 | 10,993 | 896 | 136 | 438 | 1,723 | 12.6 | 13.0 | 56.1 | 57.6 |
| South Carolina | 51,615 | 32,571 | 18,294 | 136 | 614 | 1,067 | 14.0 | 13.8 | 60.1 | 59.1 |
| South Dakota | 10,681 | 8,855 | 84 | 1,636 | 106 | 158 | 14.6 | 14.3 | 67.9 | 66.4 |
| Tennessee | 74,391 | 56,793 | 16,443 | 153 | 1,002 | 1,554 | 14.0 | 13.9 | 61.4 | 60.6 |
| Texas | 332,874 | 283,553 | 39,384 | 829 | 9,108 | 145,772 | 17.4 | 17.4 | 75.6 | 75.2 |
| Utah | 43,893 | 41,655 | 272 | 673 | 1,294 | 4,261 | 21.9 | 20.8 | 92.9 | 88.3 |
| Vermont | 6,708 | 6,625 | 26 | 10 | 47 | 32 | 11.4 | 11.5 | 49.8 | 49.8 |
| Virginia | 92,732 | 67,402 | 21,186 | 159 | 3,985 | 5,307 | 13.9 | 13.9 | 58.7 | 58.0 |
| Washington | 78,585 | 68,119 | 3,162 | 1,782 | 5,522 | 9,258 | 14.2 | 14.2 | 62.5 | 62.0 |
| West Virginia | 21,252 | 20,349 | 745 | 17 | 140 | 130 | 11.6 | 11.4 | 53.7 | 52.1 |
| Wisconsin | 66,842 | 57,831 | 6,334 | 830 | 1,847 | 3,105 | 13.0 | 13.1 | 58.0 | 58.4 |
| Wyoming | 6,377 | 6,063 | 50 | 214 | 51 | 515 | 13.2 | 13.1 | 60.6 | 59.7 |
| Puerto Rico | 64,421 | 59,526 | 4,896 | --- | --- | --- | 17.0 | 16.8 | 72.2 | 71.3 |
| Virgin Islands | 2,063 | 391 | 1,604 | 59 | 8 | 393 | 18.2 | 16.7 | 82.4 | 75.0 |
| Guam | 4,370 | 726 | 91 | 4 | 3,549 | 42 | 30.2 | 29.3 | 138.6 | 152.8 |

--- Data not available.

¹ Includes births to Aleuts and Eskimos.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 5. Percent of live births to mothers under 20 years of age by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States]

| Area | <i>All races</i> ¹ | | <i>White</i> | | <i>Black</i> | | <i>Hispanic</i> ² | |
|----------------------------------|-------------------------------|------|--------------|------|--------------|------|------------------------------|------|
| | <i>12 months ending June</i> | | | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 12.8 | 13.0 | 11.2 | 11.4 | 22.6 | 23.0 | 17.2 | 17.7 |
| Alabama | 18.0 | 18.6 | 13.7 | 14.4 | 27.0 | 27.5 | 14.5 | 16.9 |
| Alaska | 10.9 | 11.4 | 8.5 | 9.5 | 16.9 | 14.8 | 12.0 | 11.9 |
| Arizona | 14.8 | 15.2 | 14.5 | 14.9 | 21.6 | 20.9 | 20.4 | 21.4 |
| Arkansas | 19.3 | 20.0 | 16.3 | 17.0 | 30.4 | 30.6 | 17.2 | 18.4 |
| California | 11.8 | 12.3 | 12.1 | 12.5 | 18.3 | 18.7 | 15.7 | 16.4 |
| Colorado | 12.0 | 12.1 | 11.6 | 11.7 | 20.3 | 19.8 | 21.9 | 22.8 |
| Connecticut | 8.3 | 8.4 | 7.1 | 7.1 | 18.5 | 18.7 | 22.0 | 23.3 |
| Delaware | 13.7 | 13.0 | 9.4 | 9.2 | 27.8 | 26.4 | 15.3 | 21.4 |
| District of Columbia | 16.4 | 16.6 | 6.2 | 6.8 | 20.0 | 20.0 | 12.4 | 16.2 |
| Florida | 13.5 | 13.4 | 11.0 | 10.9 | 22.3 | 22.9 | 13.1 | 13.0 |
| Georgia | 15.8 | 16.2 | 12.2 | 12.5 | 23.4 | 23.8 | 15.7 | 16.0 |
| Hawaii | 10.9 | 10.3 | 6.1 | 5.6 | 10.1 | 9.6 | 19.0 | 17.3 |
| Idaho | 13.0 | 13.9 | 13.0 | 13.9 | * | * | 19.1 | 21.9 |
| Illinois | 12.6 | 13.0 | 9.6 | 10.0 | 25.9 | 26.3 | 16.2 | 17.3 |
| Indiana | 14.3 | 14.5 | 12.8 | 13.2 | 26.6 | 26.8 | 18.0 | 19.5 |
| Iowa | 11.0 | 10.9 | 10.5 | 10.4 | 27.2 | 29.1 | 17.6 | 18.3 |
| Kansas | 12.9 | 13.1 | 11.9 | 11.9 | 26.4 | 27.6 | 19.2 | 20.4 |
| Kentucky | 16.8 | 17.1 | 15.9 | 16.2 | 27.1 | 27.1 | 16.8 | 18.4 |
| Louisiana | 18.8 | 18.9 | 13.5 | 13.2 | 26.5 | 27.5 | 14.0 | 14.3 |
| Maine | 10.0 | 9.8 | 10.0 | 9.7 | * | * | * | * |
| Maryland | 10.3 | 10.2 | 6.9 | 6.9 | 18.1 | 18.1 | 10.9 | 11.3 |
| Massachusetts | 7.3 | 7.3 | 6.6 | 6.6 | 15.2 | 14.6 | 22.4 | 21.5 |
| Michigan | 12.0 | 12.3 | 9.7 | 9.8 | 22.5 | 23.7 | 19.3 | 21.3 |
| Minnesota | 8.8 | 8.5 | 7.4 | 7.2 | 23.5 | 23.1 | 19.2 | 20.2 |
| Mississippi | 21.1 | 21.7 | 14.3 | 14.9 | 29.0 | 29.6 | 11.6 | 13.3 |
| Missouri | 13.8 | 14.3 | 12.0 | 12.3 | 25.2 | 26.0 | 16.4 | 18.5 |
| Montana | 12.1 | 12.6 | 10.3 | 11.1 | * | * | 23.3 | 19.8 |
| Nebraska | 10.5 | 10.2 | 9.5 | 9.1 | 26.2 | 25.9 | 15.8 | 17.5 |
| Nevada | 13.5 | 13.1 | 12.6 | 12.5 | 26.1 | 23.4 | 16.2 | 16.8 |
| New Hampshire | 7.2 | 7.7 | 7.2 | 7.6 | * | * | 18.9 | 17.8 |
| New Jersey | 7.9 | 7.9 | 5.8 | 5.9 | 18.5 | 18.8 | 14.9 | 14.8 |
| New Mexico | 17.9 | 18.1 | 18.0 | 18.0 | 22.3 | 23.7 | 22.7 | 23.4 |
| New York | 9.0 | 9.3 | 7.6 | 8.0 | 15.4 | 15.8 | 14.7 | 15.3 |
| North Carolina | 14.7 | 15.1 | 11.5 | 11.7 | 23.7 | 24.0 | 18.0 | 16.7 |
| North Dakota | 9.2 | 9.8 | 7.8 | 8.5 | * | * | 19.6 | 17.1 |
| Ohio | 13.4 | 13.5 | 11.6 | 11.6 | 25.5 | 25.2 | 21.8 | 23.2 |
| Oklahoma | 16.9 | 17.4 | 15.1 | 15.6 | 25.6 | 26.7 | 19.4 | 20.6 |
| Oregon | 12.7 | 13.2 | 12.6 | 13.0 | 23.2 | 24.4 | 19.1 | 19.6 |
| Pennsylvania | 10.4 | 10.7 | 8.5 | 8.7 | 23.0 | 23.6 | 24.4 | 25.9 |
| Rhode Island | 10.4 | 10.4 | 9.4 | 9.2 | 19.6 | 21.1 | 20.8 | 19.4 |
| South Carolina | 16.8 | 16.9 | 12.2 | 12.4 | 25.1 | 25.2 | 15.6 | 16.2 |
| South Dakota | 11.6 | 11.3 | 9.5 | 9.2 | * | * | 16.1 | 19.5 |
| Tennessee | 16.6 | 16.7 | 14.2 | 14.3 | 25.6 | 25.9 | 16.3 | 16.0 |
| Texas | 16.2 | 16.4 | 15.6 | 15.8 | 23.7 | 23.8 | 19.7 | 20.1 |
| Utah | 10.6 | 10.9 | 10.5 | 10.8 | 19.7 | 22.3 | 19.8 | 20.3 |
| Vermont | 8.3 | 8.8 | 8.2 | 8.8 | * | * | * | * |
| Virginia | 11.0 | 11.3 | 8.6 | 8.9 | 20.3 | 20.6 | 11.6 | 11.8 |
| Washington | 11.0 | 11.5 | 10.7 | 11.2 | 18.7 | 19.8 | 18.5 | 19.0 |
| West Virginia | 16.6 | 16.7 | 16.4 | 16.3 | 24.7 | 28.9 | * | * |
| Wisconsin | 10.4 | 10.6 | 8.1 | 8.2 | 28.9 | 29.1 | 21.1 | 21.4 |
| Wyoming | 14.2 | 14.8 | 13.9 | 14.5 | * | * | 20.3 | 24.1 |
| Puerto Rico | 20.8 | 20.3 | 20.6 | 20.2 | 22.4 | 21.4 | --- | --- |
| Virgin Islands | 15.2 | 16.6 | 15.6 | 19.7 | 15.5 | 16.3 | 16.5 | 23.8 |
| Guam | 15.0 | 14.6 | 12.1 | 11.3 | * | * | * | * |

* Figure does not meet standards of reliability or precision.

--- Data not available.

¹ Includes races other than white and black.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 6. Percent of live births to unmarried mothers by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States]

| Area | All races ¹ | | White | | Black | | Hispanic ² | |
|----------------------------|------------------------|------|-------|------|-------|------|-----------------------|------|
| | 12 months ending June | | | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 32.5 | 32.3 | 25.8 | 25.6 | 69.7 | 69.8 | 41.0 | 41.0 |
| Alabama | 33.7 | 34.2 | 16.6 | 16.7 | 69.1 | 70.4 | 23.3 | 26.0 |
| Alaska | 30.5 | 30.5 | 21.6 | 21.9 | 42.9 | 38.8 | 29.1 | 29.4 |
| Arizona | 38.5 | 38.9 | 35.6 | 36.1 | 65.6 | 63.2 | 49.4 | 50.8 |
| Arkansas | 33.9 | 33.4 | 22.7 | 22.0 | 74.2 | 73.9 | 34.5 | 31.3 |
| California | 31.9 | 32.0 | 31.6 | 31.8 | 61.0 | 61.5 | 38.8 | 38.6 |
| Colorado | 25.0 | 25.0 | 23.6 | 23.3 | 56.4 | 56.2 | 40.3 | 41.5 |
| Connecticut | 32.1 | 31.0 | 26.4 | 25.3 | 70.1 | 70.4 | 65.3 | 64.5 |
| Delaware | 36.4 | 34.7 | 25.3 | 23.8 | 72.7 | 72.8 | 50.2 | 55.9 |
| District of Columbia | 65.0 | 65.9 | 26.9 | 25.0 | 78.5 | 79.6 | 56.7 | 52.3 |
| Florida | 36.1 | 35.7 | 27.2 | 26.6 | 67.6 | 68.2 | 34.5 | 34.3 |
| Georgia | 35.3 | 35.2 | 19.1 | 19.1 | 67.4 | 66.9 | 27.3 | 26.2 |
| Hawaii | 30.1 | 29.3 | 16.8 | 16.7 | 23.7 | 19.7 | 44.6 | 43.8 |
| Idaho | 20.8 | 20.8 | 20.3 | 20.2 | 39.7 | 38.6 | 27.5 | 28.0 |
| Illinois | 33.6 | 33.7 | 23.5 | 23.3 | 77.4 | 78.1 | 39.2 | 39.5 |
| Indiana | 33.0 | 32.1 | 27.5 | 27.0 | 76.3 | 77.2 | 41.5 | 42.5 |
| Iowa | 26.2 | 25.6 | 24.6 | 24.4 | 73.6 | 70.2 | 38.1 | 39.0 |
| Kansas | 27.2 | 26.2 | 23.7 | 22.7 | 69.7 | 67.7 | 37.9 | 38.1 |
| Kentucky | 29.5 | 29.4 | 25.3 | 24.9 | 72.0 | 74.3 | 29.3 | 29.4 |
| Louisiana | 43.9 | 42.4 | 23.3 | 22.0 | 73.6 | 72.4 | 30.9 | 29.3 |
| Maine | 29.5 | 28.6 | 29.3 | 28.3 | 45.7 | 51.3 | 35.1 | 27.0 |
| Maryland | 33.7 | 33.2 | 20.6 | 20.1 | 62.4 | 62.9 | 37.3 | 36.8 |
| Massachusetts | 25.6 | 25.3 | 22.3 | 21.9 | 59.4 | 59.4 | 60.1 | 59.5 |
| Michigan | 33.7 | 34.1 | 24.4 | 24.7 | 75.9 | 77.5 | 41.7 | 42.5 |
| Minnesota | 24.7 | 24.4 | 21.3 | 21.1 | 66.9 | 69.4 | 45.9 | 46.8 |
| Mississippi | 45.2 | 45.1 | 19.1 | 18.9 | 75.4 | 75.2 | 31.7 | 26.9 |
| Missouri | 32.9 | 32.7 | 25.2 | 24.6 | 77.5 | 78.3 | 37.2 | 36.4 |
| Montana | 28.2 | 26.8 | 23.0 | 22.1 | * | 46.7 | 34.3 | 31.6 |
| Nebraska | 25.3 | 24.2 | 22.1 | 20.9 | 70.9 | 71.9 | 39.5 | 39.5 |
| Nevada | 39.8 | 41.9 | 36.7 | 38.9 | 73.1 | 75.7 | 49.6 | 54.4 |
| New Hampshire | 23.0 | 23.1 | 23.0 | 23.1 | 44.0 | 42.5 | 41.2 | 37.1 |
| New Jersey | 28.5 | 27.4 | 20.8 | 20.0 | 66.7 | 65.8 | 49.7 | 48.1 |
| New Mexico | 42.5 | 42.5 | 38.6 | 38.3 | 59.2 | 59.5 | 49.2 | 49.7 |
| New York | 39.7 | 38.4 | 30.8 | 30.6 | 71.3 | 70.3 | 62.9 | 62.2 |
| North Carolina | 32.0 | 31.8 | 19.2 | 18.7 | 67.2 | 67.0 | 37.5 | 34.3 |
| North Dakota | 25.6 | 24.4 | 21.0 | 20.0 | 24.2 | 28.8 | 28.4 | 26.7 |
| Ohio | 33.2 | 33.1 | 26.4 | 25.8 | 76.4 | 76.9 | 47.0 | 50.2 |
| Oklahoma | 31.2 | 30.9 | 25.2 | 24.7 | 69.1 | 69.8 | 32.8 | 33.2 |
| Oregon | 29.2 | 29.3 | 28.1 | 28.5 | 69.8 | 67.3 | 37.6 | 36.1 |
| Pennsylvania | 32.5 | 32.3 | 25.3 | 25.1 | 78.3 | 78.0 | 63.1 | 62.3 |
| Rhode Island | 32.7 | 32.5 | 29.2 | 29.0 | 69.0 | 68.0 | 57.1 | 59.3 |
| South Carolina | 37.8 | 36.9 | 20.3 | 19.9 | 69.7 | 68.1 | 29.8 | 29.6 |
| South Dakota | 30.0 | 29.3 | 21.8 | 21.4 | 34.9 | 24.5 | 32.9 | 43.8 |
| Tennessee | 33.8 | 32.9 | 22.5 | 21.9 | 73.7 | 73.0 | 31.9 | 28.7 |
| Texas | 30.6 | 30.2 | 26.7 | 26.3 | 63.3 | 63.0 | 33.8 | 33.6 |
| Utah | 16.4 | 16.1 | 15.6 | 15.2 | 54.4 | 47.2 | 36.1 | 37.1 |
| Vermont | 25.3 | 25.9 | 25.3 | 25.8 | * | * | * | * |
| Virginia | 29.2 | 29.1 | 19.5 | 19.4 | 63.8 | 63.6 | 37.4 | 37.3 |
| Washington | 27.1 | 27.2 | 25.5 | 25.6 | 55.7 | 55.3 | 37.2 | 37.3 |
| West Virginia | 31.2 | 30.9 | 29.8 | 29.2 | 74.9 | 76.0 | 28.4 | * |
| Wisconsin | 27.6 | 27.5 | 21.4 | 21.3 | 82.9 | 82.3 | 44.8 | 45.2 |
| Wyoming | 27.1 | 26.1 | 25.9 | 24.7 | 42.9 | 41.0 | 41.3 | 41.2 |
| Puerto Rico | 45.0 | 43.4 | 43.6 | 42.0 | 62.0 | 60.5 | --- | --- |
| Virgin Islands | 64.7 | 62.3 | 50.2 | 49.6 | 70.5 | 66.7 | 59.8 | 56.8 |
| Guam | 49.2 | 46.5 | 35.6 | 27.0 | 34.4 | * | * | * |

* Figure does not meet standards of reliability or precision.

--- Data not available.

¹ Includes races other than white and black.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 7. Percent low birthweight by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States. Low birthweight is less than 2,500 grams]

| Area | All races ¹ | | White | | Black | | Hispanic ² | |
|----------------------------|------------------------|------|-------|------|-------|------|-----------------------|------|
| | 12 months ending June | | | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 7.5 | 7.3 | 6.4 | 6.3 | 13.0 | 13.0 | 6.3 | 6.3 |
| Alabama | 9.2 | 9.3 | 7.3 | 7.2 | 13.1 | 13.6 | 6.7 | 5.6 |
| Alaska | 5.8 | 5.1 | 5.3 | 4.8 | 12.2 | 12.6 | 6.5 | 5.1 |
| Arizona | 6.7 | 6.7 | 6.6 | 6.5 | 12.3 | 12.7 | 6.4 | 6.5 |
| Arkansas | 8.4 | 8.5 | 7.0 | 7.1 | 13.3 | 13.6 | 6.1 | 6.6 |
| California | 6.1 | 6.1 | 5.5 | 5.5 | 11.9 | 12.0 | 5.5 | 5.5 |
| Colorado | 8.7 | 8.7 | 8.4 | 8.4 | 14.2 | 15.3 | 8.9 | 8.6 |
| Connecticut | 7.4 | 7.1 | 6.6 | 6.3 | 12.8 | 12.6 | 8.9 | 8.8 |
| Delaware | 8.9 | 8.5 | 7.2 | 7.0 | 14.2 | 13.8 | 7.2 | 8.3 |
| District of Columbia | 14.2 | 13.5 | 6.5 | 5.8 | 16.9 | 16.0 | 7.6 | 7.5 |
| Florida | 7.9 | 7.8 | 6.7 | 6.5 | 12.2 | 12.2 | 6.6 | 6.3 |
| Georgia | 8.7 | 8.6 | 6.5 | 6.5 | 12.8 | 12.8 | 5.4 | 5.7 |
| Hawaii | 7.2 | 7.1 | 4.9 | 5.1 | 9.8 | 10.9 | 6.5 | 6.3 |
| Idaho | 6.0 | 6.1 | 5.9 | 6.0 | * | * | 6.6 | 7.0 |
| Illinois | 7.9 | 7.9 | 6.3 | 6.2 | 14.3 | 14.6 | 5.8 | 6.0 |
| Indiana | 7.9 | 7.6 | 7.2 | 6.9 | 13.8 | 13.6 | 7.4 | 6.3 |
| Iowa | 6.5 | 6.2 | 6.2 | 6.0 | 12.3 | 12.6 | 6.6 | 7.3 |
| Kansas | 7.0 | 6.6 | 6.5 | 6.0 | 13.1 | 12.6 | 5.8 | 5.8 |
| Kentucky | 7.9 | 7.7 | 7.4 | 7.2 | 12.6 | 12.5 | 7.6 | 6.1 |
| Louisiana | 10.0 | 9.7 | 6.9 | 6.8 | 14.4 | 14.0 | 5.3 | 6.6 |
| Maine | 5.8 | 6.0 | 5.7 | 5.9 | * | * | * | * |
| Maryland | 8.9 | 8.4 | 6.5 | 6.1 | 13.7 | 13.2 | 6.8 | 5.3 |
| Massachusetts | 6.7 | 6.4 | 6.3 | 5.9 | 10.3 | 10.7 | 8.3 | 7.9 |
| Michigan | 7.7 | 7.6 | 6.5 | 6.2 | 13.4 | 13.8 | 6.8 | 6.6 |
| Minnesota | 5.9 | 5.8 | 5.5 | 5.5 | 11.9 | 11.1 | 6.8 | 6.1 |
| Mississippi | 9.8 | 10.0 | 7.2 | 7.5 | 12.9 | 12.9 | 6.5 | * |
| Missouri | 7.6 | 7.5 | 6.6 | 6.4 | 13.1 | 13.8 | 6.5 | 6.5 |
| Montana | 6.1 | 6.4 | 6.1 | 6.3 | * | * | 7.8 | 8.0 |
| Nebraska | 6.8 | 6.3 | 6.5 | 6.1 | 11.0 | 11.0 | 6.0 | 6.1 |
| Nevada | 7.6 | 7.5 | 6.9 | 6.9 | 14.4 | 13.4 | 6.0 | 6.3 |
| New Hampshire | 5.2 | 5.1 | 5.2 | 5.0 | * | * | * | * |
| New Jersey | 7.9 | 7.5 | 6.5 | 6.2 | 13.8 | 12.9 | 7.3 | 7.1 |
| New Mexico | 7.4 | 7.6 | 7.3 | 7.7 | 13.6 | 10.1 | 7.4 | 7.9 |
| New York | 7.8 | 7.6 | 6.6 | 6.4 | 11.7 | 12.3 | 7.5 | 7.6 |
| North Carolina | 8.9 | 8.7 | 7.0 | 6.8 | 14.0 | 13.7 | 6.3 | 5.8 |
| North Dakota | 6.2 | 5.6 | 6.1 | 5.5 | * | * | * | * |
| Ohio | 7.5 | 7.5 | 6.6 | 6.5 | 12.9 | 13.5 | 6.6 | 7.3 |
| Oklahoma | 7.4 | 7.1 | 6.9 | 6.6 | 13.1 | 12.5 | 6.4 | 6.6 |
| Oregon | 5.3 | 5.4 | 5.2 | 5.3 | 10.2 | 11.0 | 5.5 | 6.0 |
| Pennsylvania | 7.4 | 7.5 | 6.4 | 6.4 | 14.0 | 14.1 | 8.7 | 9.4 |
| Rhode Island | 7.0 | 7.1 | 6.6 | 6.7 | 12.0 | 12.2 | 7.5 | 7.8 |
| South Carolina | 9.0 | 9.2 | 6.7 | 6.9 | 13.1 | 13.3 | 6.5 | 6.2 |
| South Dakota | 5.3 | 5.8 | 5.3 | 5.8 | * | * | * | * |
| Tennessee | 8.9 | 8.6 | 7.4 | 7.3 | 14.2 | 13.4 | 6.2 | 7.5 |
| Texas | 7.2 | 7.1 | 6.5 | 6.4 | 12.3 | 12.1 | 6.5 | 6.5 |
| Utah | 6.7 | 6.3 | 6.6 | 6.3 | 15.6 | 9.1 | 7.7 | 8.1 |
| Vermont | 5.8 | 6.3 | 5.8 | 6.3 | * | * | * | * |
| Virginia | 7.7 | 7.7 | 6.2 | 6.1 | 12.4 | 12.6 | 6.7 | 6.3 |
| Washington | 5.6 | 5.4 | 5.3 | 5.1 | 10.4 | 11.3 | 5.4 | 5.2 |
| West Virginia | 8.2 | 8.1 | 8.1 | 7.9 | 11.8 | 13.6 | * | * |
| Wisconsin | 6.4 | 6.1 | 5.7 | 5.3 | 12.9 | 13.3 | 6.8 | 6.5 |
| Wyoming | 8.6 | 8.1 | 8.6 | 8.0 | * | * | 9.0 | 8.2 |
| Puerto Rico | 10.5 | 10.3 | 10.5 | 10.3 | 10.5 | 10.2 | * | * |
| Virgin Islands | 7.5 | 8.8 | * | 9.0 | 8.5 | 8.8 | --- | --- |
| Guam | 6.9 | 7.6 | 5.4 | 5.3 | * | * | * | * |

* Figure does not meet standards of reliability or precision.

--- Data not available.

¹ Includes races other than white and black.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 8. Percent of live births by cesarean delivery by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States]

| Area | <i>All races</i> ¹ | | <i>White</i> | | <i>Black</i> | | <i>Hispanic</i> ² | |
|----------------------------------|-------------------------------|------|--------------|------|--------------|------|------------------------------|------|
| | <i>12 months ending June</i> | | | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 20.7 | 20.7 | 20.7 | 20.6 | 21.8 | 21.7 | 20.1 | 20.0 |
| Alabama | 23.7 | 23.2 | 24.1 | 23.7 | 23.0 | 22.3 | 21.4 | 21.2 |
| Alaska | 17.6 | 15.1 | 20.1 | 17.4 | 22.0 | 19.4 | 21.4 | 18.8 |
| Arizona | 16.4 | 16.2 | 16.5 | 16.3 | 19.9 | 17.3 | 15.4 | 14.9 |
| Arkansas | 24.7 | 25.4 | 24.4 | 25.4 | 26.4 | 25.6 | 21.5 | 22.0 |
| California | 20.8 | 20.5 | 20.8 | 20.4 | 22.9 | 23.0 | 20.1 | 19.6 |
| Colorado | 15.3 | 14.7 | 15.2 | 14.6 | 17.1 | 17.4 | 14.2 | 14.1 |
| Connecticut | 19.9 | 19.6 | 19.9 | 19.5 | 20.2 | 20.5 | 18.2 | 17.5 |
| Delaware | 21.1 | 20.9 | 21.3 | 21.2 | 20.9 | 20.5 | 17.3 | 17.4 |
| District of Columbia | 21.6 | 20.8 | 20.1 | 18.4 | 22.4 | 21.6 | 15.8 | 11.9 |
| Florida | 21.8 | 21.6 | 22.2 | 22.2 | 20.6 | 20.0 | 24.3 | 23.9 |
| Georgia | 20.8 | 20.9 | 20.6 | 20.7 | 21.5 | 21.5 | 16.1 | 16.1 |
| Hawaii | 17.1 | 18.1 | 20.0 | 18.9 | 23.0 | 21.8 | 18.5 | 17.7 |
| Idaho | 16.4 | 15.7 | 16.3 | 15.5 | * | 24.4 | 18.4 | 14.5 |
| Illinois | 19.3 | 19.6 | 19.2 | 19.6 | 19.4 | 19.5 | 16.5 | 17.3 |
| Indiana | 20.1 | 20.6 | 20.0 | 20.6 | 20.7 | 20.9 | 21.0 | 23.9 |
| Iowa | 18.8 | 18.7 | 19.0 | 18.7 | 17.1 | 20.5 | 17.5 | 16.8 |
| Kansas | 18.8 | 19.4 | 18.9 | 19.5 | 18.5 | 18.9 | 16.7 | 18.6 |
| Kentucky | 21.7 | 21.7 | 21.7 | 21.8 | 21.8 | 20.9 | 16.2 | 21.7 |
| Louisiana | 26.0 | 26.6 | 27.4 | 28.0 | 24.3 | 25.1 | 24.2 | 25.5 |
| Maine | 21.2 | 21.1 | 21.2 | 21.2 | 22.6 | * | 24.8 | 23.0 |
| Maryland | 21.3 | 21.7 | 20.8 | 21.2 | 22.4 | 22.9 | 17.2 | 17.9 |
| Massachusetts | 19.6 | 20.1 | 19.8 | 20.3 | 20.5 | 19.9 | 17.1 | 17.2 |
| Michigan | 20.2 | 20.1 | 20.5 | 20.4 | 19.0 | 19.1 | 19.8 | 18.4 |
| Minnesota | 17.1 | 16.5 | 17.5 | 16.8 | 16.1 | 16.8 | 16.7 | 16.6 |
| Mississippi | 26.7 | 26.1 | 28.0 | 27.6 | 25.3 | 24.5 | 23.6 | 24.6 |
| Missouri | 20.0 | 20.5 | 20.4 | 20.9 | 17.8 | 19.0 | 18.7 | 18.6 |
| Montana | 19.3 | 18.8 | 19.0 | 18.7 | * | * | 18.9 | 20.9 |
| Nebraska | 20.2 | 19.2 | 20.3 | 19.4 | 19.0 | 17.5 | 19.6 | 18.4 |
| Nevada | 19.1 | 19.4 | 18.6 | 19.3 | 22.5 | 21.0 | 15.5 | 16.2 |
| New Hampshire | 19.9 | 20.3 | 19.9 | 20.3 | 20.6 | 21.7 | 18.0 | 22.8 |
| New Jersey | 24.5 | 23.3 | 24.7 | 23.3 | 24.0 | 23.4 | 25.3 | 23.5 |
| New Mexico | 17.0 | 17.6 | 17.5 | 18.2 | 22.9 | 22.0 | 17.2 | 17.6 |
| New York | 23.0 | 22.7 | 23.1 | 22.8 | 23.2 | 22.8 | 22.3 | 21.3 |
| North Carolina | 21.1 | 21.3 | 21.2 | 21.3 | 21.4 | 21.6 | 16.1 | 16.5 |
| North Dakota | 18.6 | 18.9 | 18.1 | 18.3 | * | * | 18.9 | 23.3 |
| Ohio | 19.1 | 19.1 | 19.3 | 19.1 | 18.3 | 19.1 | 19.4 | 18.9 |
| Oklahoma | 22.3 | 22.4 | 22.0 | 22.3 | 23.9 | 23.2 | 20.1 | 23.4 |
| Oregon | 16.7 | 17.3 | 16.7 | 17.3 | 20.6 | 19.6 | 15.1 | 15.8 |
| Pennsylvania | 19.3 | 19.5 | 19.5 | 19.7 | 18.8 | 18.9 | 17.2 | 17.1 |
| Rhode Island | 17.6 | 17.9 | 17.7 | 18.2 | 19.9 | 17.9 | 16.0 | 17.5 |
| South Carolina | 22.6 | 22.5 | 22.6 | 23.0 | 22.7 | 21.8 | 20.2 | 22.8 |
| South Dakota | 20.2 | 20.6 | 20.5 | 20.9 | 24.1 | 21.3 | 21.3 | 28.9 |
| Tennessee | 21.9 | 21.2 | 22.1 | 21.5 | 21.5 | 20.9 | 21.0 | 21.5 |
| Texas | 23.2 | 23.4 | 23.1 | 23.3 | 24.6 | 24.5 | 22.3 | 22.8 |
| Utah | 16.0 | 15.8 | 16.0 | 15.8 | 22.4 | 22.0 | 17.7 | 16.6 |
| Vermont | 16.0 | 16.2 | 15.9 | 16.2 | * | * | * | * |
| Virginia | 21.3 | 21.1 | 20.9 | 20.7 | 22.4 | 22.8 | 19.0 | 18.0 |
| Washington | 16.5 | 17.1 | 16.3 | 16.9 | 19.9 | 22.3 | 16.3 | 17.4 |
| West Virginia | 23.8 | 23.1 | 23.7 | 23.1 | 27.0 | 25.9 | 20.4 | * |
| Wisconsin | 15.4 | 15.6 | 15.9 | 16.2 | 12.8 | 12.1 | 13.8 | 14.7 |
| Wyoming | 18.9 | 18.0 | 19.0 | 18.0 | * | * | 17.8 | 20.0 |
| Puerto Rico | 32.4 | 30.7 | 33.0 | 31.2 | 25.3 | 24.5 | --- | --- |
| Virgin Islands | 23.5 | 21.1 | 26.9 | 26.9 | 22.9 | 19.8 | 25.9 | 23.2 |
| Guam | 14.9 | 15.1 | 14.6 | 15.6 | * | * | * | * |

* Figure does not meet standards of reliability or precision.

--- Data not available.

¹ Includes races other than white and black.² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 9. Percent of mothers receiving prenatal care in first trimester of pregnancy by race and Hispanic origin of mother: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States]

| Area | All races ¹ | | White | | Black | | Hispanic ² | |
|----------------------------|------------------------|------|-------|------|-------|------|-----------------------|------|
| | 12 months ending June | | | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| United States ³ | 82.3 | 81.5 | 84.5 | 83.7 | 71.8 | 70.9 | 73.1 | 71.2 |
| Alabama | 82.0 | 81.8 | 87.9 | 88.1 | 69.9 | 68.9 | 61.5 | 62.8 |
| Alaska | 80.5 | 81.9 | 82.7 | 84.8 | 81.2 | 82.2 | 76.6 | 78.9 |
| Arizona | 75.2 | 72.3 | 76.4 | 73.3 | 70.4 | 69.7 | 64.5 | 60.8 |
| Arkansas | 75.0 | 75.6 | 79.1 | 79.5 | 60.7 | 62.0 | 57.3 | 57.5 |
| California | 81.4 | 79.2 | 81.4 | 79.1 | 79.0 | 77.4 | 76.8 | 73.8 |
| Colorado | 82.4 | 80.9 | 82.8 | 81.5 | 76.8 | 74.2 | 68.6 | 66.1 |
| Connecticut | 88.6 | 87.8 | 90.2 | 89.5 | 78.6 | 76.3 | 78.5 | 75.1 |
| Delaware | 83.4 | 84.8 | 86.9 | 88.1 | 72.0 | 74.4 | 68.6 | 67.7 |
| District of Columbia | 65.6 | 62.1 | 79.3 | 77.3 | 60.9 | 57.1 | 61.2 | 60.5 |
| Florida | 83.7 | 82.7 | 86.9 | 86.0 | 72.8 | 71.6 | 81.0 | 80.0 |
| Georgia | 85.6 | 84.6 | 89.4 | 88.9 | 78.3 | 76.6 | 74.4 | 72.7 |
| Hawaii | 82.7 | 84.1 | 88.7 | 89.1 | 85.8 | 91.8 | 82.4 | 81.4 |
| Idaho | 78.0 | 80.0 | 78.4 | 80.2 | 69.2 | 81.3 | 60.4 | 61.7 |
| Illinois | 82.1 | 81.0 | 85.2 | 84.3 | 69.4 | 68.1 | 72.3 | 70.4 |
| Indiana | 79.8 | 80.5 | 81.8 | 82.2 | 65.1 | 65.5 | 65.1 | 65.4 |
| Iowa | 87.5 | 86.9 | 88.2 | 87.4 | 74.0 | 74.1 | 70.6 | 70.9 |
| Kansas | 85.6 | 85.4 | 86.5 | 86.5 | 77.1 | 74.4 | 64.6 | 63.8 |
| Kentucky | 85.2 | 84.4 | 86.2 | 85.6 | 74.9 | 73.0 | 73.2 | 75.2 |
| Louisiana | 81.0 | 80.9 | 88.6 | 88.6 | 70.5 | 69.9 | 82.9 | 79.6 |
| Maine | 89.3 | 89.2 | 89.6 | 89.5 | 79.4 | 78.5 | 76.5 | 73.6 |
| Maryland | 88.8 | 88.2 | 92.8 | 92.3 | 79.5 | 78.4 | 80.8 | 81.2 |
| Massachusetts | 86.1 | 86.4 | 87.7 | 88.1 | 74.7 | 74.4 | 73.7 | 74.6 |
| Michigan | 84.4 | 83.7 | 87.4 | 86.7 | 70.8 | 70.4 | 74.2 | 70.9 |
| Minnesota | 83.9 | 83.4 | 86.5 | 86.0 | 63.6 | 63.7 | 57.9 | 61.5 |
| Mississippi | 79.1 | 78.0 | 88.6 | 87.4 | 68.3 | 67.1 | 77.4 | 80.5 |
| Missouri | 85.7 | 85.6 | 88.0 | 87.9 | 72.6 | 72.5 | 77.3 | 77.6 |
| Montana | 83.0 | 81.8 | 84.9 | 83.6 | 80.0 | 82.2 | 76.8 | 73.5 |
| Nebraska | 84.8 | 84.1 | 85.8 | 85.1 | 73.5 | 71.2 | 67.9 | 65.1 |
| Nevada | 77.2 | 77.2 | 78.1 | 77.9 | 66.5 | 69.0 | 65.3 | 64.2 |
| New Hampshire | 89.6 | 89.4 | 89.7 | 89.6 | 78.7 | 77.2 | 79.8 | 78.6 |
| New Jersey | 81.2 | 82.6 | 85.2 | 86.1 | 64.1 | 67.2 | 70.4 | 71.2 |
| New Mexico | 70.8 | 69.4 | 73.4 | 71.6 | 62.8 | 62.0 | 68.1 | 65.9 |
| New York | 80.1 | 78.4 | 83.7 | 81.9 | 69.1 | 67.4 | 69.9 | 66.5 |
| North Carolina | 83.6 | 83.3 | 88.1 | 88.0 | 72.2 | 71.3 | 68.8 | 66.8 |
| North Dakota | 84.8 | 84.3 | 86.3 | 85.8 | 79.1 | 81.3 | 75.0 | 80.1 |
| Ohio | 85.4 | 85.3 | 87.4 | 87.6 | 72.5 | 71.3 | 77.1 | 75.3 |
| Oklahoma | 79.3 | 78.1 | 81.5 | 80.8 | 68.8 | 65.7 | 69.8 | 69.3 |
| Oregon | 81.0 | 79.1 | 81.4 | 79.5 | 78.9 | 74.8 | 66.2 | 64.1 |
| Pennsylvania | 84.1 | 83.8 | 86.9 | 86.8 | 67.8 | 65.7 | 71.5 | 69.6 |
| Rhode Island | 89.7 | 89.8 | 90.8 | 91.0 | 79.0 | 80.1 | 82.1 | 85.1 |
| South Carolina | 79.8 | 78.8 | 86.5 | 85.8 | 67.8 | 66.2 | 66.7 | 63.4 |
| South Dakota | 82.4 | 81.5 | 85.7 | 85.4 | 69.9 | 64.9 | 75.5 | 76.2 |
| Tennessee | 83.6 | 83.1 | 87.0 | 86.5 | 71.8 | 71.3 | 64.7 | 65.6 |
| Texas | 78.3 | 77.7 | 78.6 | 78.0 | 74.1 | 74.0 | 70.6 | 69.7 |
| Utah | 84.0 | 83.8 | 84.9 | 84.8 | 73.1 | 61.1 | 65.0 | 65.7 |
| Vermont | 88.2 | 87.4 | 88.3 | 87.5 | 87.6 | 78.8 | 90.0 | 78.1 |
| Virginia | 84.7 | 84.1 | 88.5 | 88.1 | 72.6 | 71.7 | 72.8 | 70.6 |
| Washington | 83.5 | 82.6 | 84.3 | 83.5 | 76.1 | 75.5 | 70.5 | 69.9 |
| West Virginia | 82.1 | 82.1 | 82.7 | 82.8 | 64.5 | 63.9 | 71.5 | 77.8 |
| Wisconsin | 84.4 | 83.7 | 87.2 | 86.7 | 67.2 | 66.6 | 69.2 | 69.3 |
| Wyoming | 81.8 | 83.5 | 82.7 | 84.0 | 67.3 | 69.5 | 71.3 | 69.8 |
| Puerto Rico | 77.7 | 77.1 | 78.5 | 78.1 | 68.1 | 65.2 | --- | --- |
| Virgin Islands | 56.4 | 55.0 | 61.8 | 57.8 | 55.1 | 54.0 | 52.0 | 53.9 |
| Guam | 65.6 | 67.5 | 77.0 | 76.1 | 67.9 | 71.9 | 75.7 | 87.5 |

--- Data not available.

¹ Includes races other than white and black.

² Race and Hispanic origin are reported separately on the birth certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the mother's reported race; see Technical notes.

³ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 10. Deaths and death rates, by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|--------------------------------------|-----------------------|----------|-----------|----------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| All races, both sexes | | | | |
| All ages | 2,334,722 | 876.1 | 2,317,625 | 877.3 |
| Under 1 year ¹ | 27,902 | 745.6 | 29,047 | 766.4 |
| 1-4 years | 5,539 | 36.0 | 6,153 | 39.4 |
| 5-14 years | 8,173 | 21.2 | 8,580 | 22.5 |
| 15-24 years | 31,923 | 87.8 | 33,570 | 92.7 |
| 25-34 years | 47,869 | 119.6 | 55,598 | 137.1 |
| 35-44 years | 92,241 | 210.8 | 100,862 | 234.3 |
| 45-54 years | 144,838 | 438.4 | 145,039 | 455.2 |
| 55-64 years | 233,582 | 1,084.4 | 235,349 | 1,108.1 |
| 65-74 years | 473,058 | 2,545.7 | 477,356 | 2,547.7 |
| 75-84 years | 675,417 | 5,827.7 | 656,680 | 5,810.2 |
| 85 years and over | 593,699 | 15,537.3 | 568,882 | 15,300.2 |
| Not stated | 480 | ... | 509 | ... |
| Age-adjusted rate ² | ... | 487.9 | ... | 498.7 |
| All races, male | | | | |
| All ages | 1,167,203 | 894.8 | 1,172,228 | 907.1 |
| Under 1 year ¹ | 15,784 | 824.8 | 16,275 | 839.6 |
| 1-4 years | 3,123 | 39.6 | 3,464 | 43.4 |
| 5-14 years | 4,845 | 24.5 | 5,214 | 26.7 |
| 15-24 years | 23,749 | 127.1 | 25,330 | 136.1 |
| 25-34 years | 33,578 | 167.7 | 39,651 | 195.5 |
| 35-44 years | 60,754 | 279.2 | 68,620 | 320.8 |
| 45-54 years | 90,845 | 561.9 | 91,881 | 589.4 |
| 55-64 years | 140,386 | 1,368.8 | 142,190 | 1,407.4 |
| 65-74 years | 268,901 | 3,241.0 | 271,956 | 3,258.7 |
| 75-84 years | 331,650 | 7,259.5 | 321,891 | 7,285.8 |
| 85 years and over | 193,241 | 17,667.0 | 185,388 | 17,618.7 |
| Not stated | 346 | ... | 368 | ... |
| Age-adjusted rate ² | ... | 616.1 | ... | 636.4 |
| All races, female | | | | |
| All ages | 1,167,519 | 858.2 | 1,145,397 | 848.9 |
| Under 1 year ¹ | 12,118 | 662.8 | 12,772 | 689.7 |
| 1-4 years | 2,416 | 32.1 | 2,689 | 35.3 |
| 5-14 years | 3,328 | 17.7 | 3,366 | 18.1 |
| 15-24 years | 8,173 | 46.3 | 8,240 | 46.8 |
| 25-34 years | 14,290 | 71.4 | 15,947 | 78.7 |
| 35-44 years | 31,487 | 143.1 | 32,242 | 148.9 |
| 45-54 years | 53,993 | 320.0 | 53,158 | 326.6 |
| 55-64 years | 93,196 | 825.9 | 93,159 | 836.5 |
| 65-74 years | 204,157 | 1,984.9 | 205,400 | 1,976.7 |
| 75-84 years | 343,767 | 4,896.1 | 334,789 | 4,863.2 |
| 85 years and over | 400,458 | 14,683.1 | 383,494 | 14,385.2 |
| Not stated | 134 | ... | 141 | ... |
| Age-adjusted rate ² | ... | 380.7 | ... | 383.3 |

See footnotes at end of table.

Table 10. Deaths and death rates by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|--------------------------------------|-----------------------|----------|-----------|----------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| White, both sexes | | | | |
| All ages | 2,016,109 | 914.2 | 1,993,233 | 910.1 |
| Under 1 year ¹ | 18,630 | 628.1 | 19,243 | 636.0 |
| 1-4 years | 3,880 | 31.8 | 4,146 | 33.6 |
| 5-14 years | 5,943 | 19.4 | 6,263 | 20.7 |
| 15-24 years | 22,697 | 78.5 | 23,788 | 82.4 |
| 25-34 years | 33,737 | 103.9 | 39,063 | 118.3 |
| 35-44 years | 66,818 | 183.8 | 72,128 | 201.3 |
| 45-54 years | 111,524 | 396.4 | 111,234 | 408.9 |
| 55-64 years | 189,759 | 1,022.4 | 191,452 | 1,044.8 |
| 65-74 years | 408,392 | 2,488.7 | 412,241 | 2,484.0 |
| 75-84 years | 608,379 | 5,799.5 | 590,619 | 5,770.4 |
| 85 years and over | 545,984 | 15,784.9 | 522,678 | 15,509.6 |
| Not stated | 364 | ... | 378 | ... |
| Age-adjusted rate ² | ... | 465.1 | ... | 472.8 |
| White, male | | | | |
| All ages | 998,508 | 920.4 | 997,681 | 926.7 |
| Under 1 year ¹ | 10,637 | 699.6 | 10,939 | 705.2 |
| 1-4 years | 2,223 | 35.5 | 2,354 | 37.2 |
| 5-14 years | 3,554 | 22.7 | 3,788 | 24.4 |
| 15-24 years | 16,613 | 111.0 | 17,773 | 119.2 |
| 25-34 years | 23,983 | 146.2 | 28,352 | 169.8 |
| 35-44 years | 44,825 | 245.4 | 49,952 | 277.6 |
| 45-54 years | 70,461 | 506.1 | 70,883 | 527.0 |
| 55-64 years | 114,959 | 1,286.1 | 116,570 | 1,322.3 |
| 65-74 years | 234,254 | 3,172.2 | 236,728 | 3,179.0 |
| 75-84 years | 300,011 | 7,228.6 | 290,799 | 7,246.3 |
| 85 years and over | 176,715 | 18,017.9 | 169,265 | 17,925.9 |
| Not stated | 273 | ... | 278 | ... |
| Age-adjusted rate ² | ... | 586.4 | ... | 602.5 |
| White, female | | | | |
| All ages | 1,017,601 | 908.1 | 995,552 | 894.0 |
| Under 1 year ¹ | 7,993 | 552.9 | 8,304 | 563.1 |
| 1-4 years | 1,657 | 27.9 | 1,792 | 29.8 |
| 5-14 years | 2,389 | 16.1 | 2,475 | 16.8 |
| 15-24 years | 6,084 | 43.6 | 6,015 | 43.1 |
| 25-34 years | 9,754 | 60.7 | 10,711 | 65.6 |
| 35-44 years | 21,993 | 121.7 | 22,176 | 124.4 |
| 45-54 years | 41,063 | 288.9 | 40,351 | 293.5 |
| 55-64 years | 74,801 | 777.4 | 74,882 | 787.5 |
| 65-74 years | 174,138 | 1,929.5 | 175,513 | 1,918.4 |
| 75-84 years | 308,369 | 4,863.9 | 299,820 | 4,818.5 |
| 85 years and over | 369,269 | 14,901.2 | 353,413 | 14,569.0 |
| Not stated | 91 | ... | 100 | ... |
| Age-adjusted rate ² | ... | 363.1 | ... | 363.7 |

See footnotes at end of table.

Table 10. Deaths and death rates by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|--------------------------------------|-----------------------|----------|---------|----------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| Black, both sexes | | | | |
| All ages | 278,369 | 825.2 | 285,588 | 857.4 |
| Under 1 year ¹ | 8,281 | 1,470.9 | 8,834 | 1,588.0 |
| 1-4 years | 1,431 | 60.7 | 1,689 | 69.4 |
| 5-14 years | 1,847 | 30.6 | 1,951 | 32.9 |
| 15-24 years | 7,970 | 144.3 | 8,504 | 154.9 |
| 25-34 years | 12,515 | 231.7 | 14,811 | 274.0 |
| 35-44 years | 22,857 | 424.3 | 26,212 | 498.2 |
| 45-54 years | 29,496 | 842.9 | 30,134 | 902.3 |
| 55-64 years | 38,544 | 1,771.9 | 38,838 | 1,810.1 |
| 65-74 years | 56,388 | 3,439.3 | 57,034 | 3,504.5 |
| 75-84 years | 57,713 | 6,742.8 | 57,251 | 6,822.6 |
| 85 years and over | 41,223 | 14,239.6 | 40,212 | 14,229.8 |
| Not stated | 104 | ... | 118 | ... |
| Age-adjusted rate ² | ... | 718.8 | ... | 755.2 |
| Black, male | | | | |
| All ages | 146,120 | 912.3 | 152,817 | 966.6 |
| Under 1 year ¹ | 4,582 | 1,606.8 | 4,799 | 1,703.4 |
| 1-4 years | 783 | 65.5 | 943 | 76.4 |
| 5-14 years | 1,062 | 34.6 | 1,197 | 39.8 |
| 15-24 years | 6,224 | 224.6 | 6,626 | 240.8 |
| 25-34 years | 8,477 | 331.0 | 10,128 | 395.4 |
| 35-44 years | 14,310 | 567.7 | 17,060 | 694.1 |
| 45-54 years | 18,155 | 1,144.8 | 18,864 | 1,245.8 |
| 55-64 years | 22,275 | 2,360.0 | 22,693 | 2,434.8 |
| 65-74 years | 29,982 | 4,372.9 | 30,655 | 4,512.6 |
| 75-84 years | 26,738 | 8,486.6 | 26,456 | 8,588.7 |
| 85 years and over | 13,469 | 15,935.3 | 13,317 | 16,174.2 |
| Not stated | 64 | ... | 79 | ... |
| Age-adjusted rate ² | ... | 935.4 | ... | 996.5 |
| Black, female | | | | |
| All ages | 132,249 | 746.4 | 132,771 | 758.8 |
| Under 1 year ¹ | 3,699 | 1,331.4 | 4,035 | 1,469.6 |
| 1-4 years | 647 | 55.6 | 746 | 62.2 |
| 5-14 years | 785 | 26.4 | 754 | 25.8 |
| 15-24 years | 1,746 | 63.5 | 1,878 | 68.6 |
| 25-34 years | 4,038 | 142.1 | 4,683 | 164.7 |
| 35-44 years | 8,547 | 298.2 | 9,152 | 326.5 |
| 45-54 years | 11,341 | 592.7 | 11,270 | 617.4 |
| 55-64 years | 16,270 | 1,321.2 | 16,145 | 1,330.3 |
| 65-74 years | 26,407 | 2,768.3 | 26,379 | 2,782.2 |
| 75-84 years | 30,975 | 5,726.9 | 30,795 | 5,798.3 |
| 85 years and over | 27,755 | 13,540.8 | 26,895 | 13,430.4 |
| Not stated | 40 | ... | 39 | ... |
| Age-adjusted rate ² | ... | 551.2 | ... | 567.4 |

See footnotes at end of table.

Table 10. Deaths and death rates by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|--|-----------------------|---------|--------|---------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| American Indian³, both sexes | | | | |
| All ages | 10,306 | 447.0 | 10,031 | 441.6 |
| Under 1 year ¹ | 335 | 838.5 | 297 | 741.7 |
| 1-4 years | 94 | 58.1 | 136 | 83.3 |
| 5-14 years | 139 | 29.8 | 137 | 29.6 |
| 15-24 years | 483 | 120.3 | 498 | 126.2 |
| 25-34 years | 669 | 178.9 | 740 | 198.8 |
| 35-44 years | 973 | 281.4 | 970 | 286.4 |
| 45-54 years | 1,229 | 527.4 | 1,152 | 515.0 |
| 55-64 years | 1,507 | 1,112.3 | 1,415 | 1,072.4 |
| 65-74 years | 1,923 | 2,225.2 | 1,909 | 2,244.2 |
| 75-84 years | 1,805 | 4,021.8 | 1,710 | 4,003.0 |
| 85 years and over | 1,143 | 6,519.9 | 1,066 | 6,659.6 |
| Not stated | 6 | ... | 1 | ... |
| Age-adjusted rate ² | ... | 458.6 | ... | 460.0 |
| American Indian³, male | | | | |
| All ages | 5,831 | 509.4 | 5,556 | 492.9 |
| Under 1 year ¹ | 198 | 985.6 | 150 | 744.6 |
| 1-4 years | 46 | 56.2 | 75 | 90.9 |
| 5-14 years | 80 | 33.8 | 88 | 37.4 |
| 15-24 years | 362 | 177.4 | 382 | 189.6 |
| 25-34 years | 490 | 254.9 | 513 | 269.4 |
| 35-44 years | 639 | 375.7 | 645 | 388.4 |
| 45-54 years | 741 | 657.0 | 675 | 623.3 |
| 55-64 years | 876 | 1,372.0 | 819 | 1,316.6 |
| 65-74 years | 1,065 | 2,724.5 | 1,044 | 2,718.9 |
| 75-84 years | 873 | 4,739.7 | 785 | 4,533.1 |
| 85 years and over | 456 | 7,952.6 | 379 | 7,271.7 |
| Not stated | 4 | ... | 1 | ... |
| Age-adjusted rate ² | ... | 573.9 | ... | 565.3 |
| American Indian³, female | | | | |
| All ages | 4,475 | 385.4 | 4,475 | 391.2 |
| Under 1 year ¹ | 137 | 689.8 | 147 | 738.8 |
| 1-4 years | 48 | 60.1 | 61 | 75.5 |
| 5-14 years | 60 | 26.2 | 49 | 21.5 |
| 15-24 years | 121 | 61.3 | 116 | 60.0 |
| 25-34 years | 178 | 98.0 | 227 | 124.9 |
| 35-44 years | 334 | 190.1 | 325 | 188.3 |
| 45-54 years | 488 | 405.8 | 477 | 413.4 |
| 55-64 years | 631 | 880.8 | 596 | 854.6 |
| 65-74 years | 858 | 1,812.8 | 865 | 1,853.6 |
| 75-84 years | 932 | 3,522.2 | 925 | 3,641.6 |
| 85 years and over | 687 | 5,823.5 | 687 | 6,364.1 |
| Not stated | 2 | ... | - | ... |
| Age-adjusted rate ² | ... | 355.8 | ... | 365.0 |

See footnotes at end of table.

Table 10. Deaths and death rates by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|--|-----------------------|----------|--------|----------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| Asian or Pacific Islander, both sexes | | | | |
| All ages | 29,938 | 301.9 | 28,773 | 300.7 |
| Under 1 year ¹ | 657 | 379.8 | 673 | 400.5 |
| 1-4 years | 135 | 19.9 | 182 | 27.1 |
| 5-14 years | 244 | 15.7 | 229 | 15.3 |
| 15-24 years | 773 | 51.9 | 780 | 53.0 |
| 25-34 years | 948 | 52.8 | 984 | 56.6 |
| 35-44 years | 1,593 | 94.7 | 1,552 | 95.6 |
| 45-54 years | 2,589 | 221.4 | 2,519 | 229.1 |
| 55-64 years | 3,771 | 562.5 | 3,644 | 571.1 |
| 65-74 years | 6,355 | 1,422.9 | 6,172 | 1,440.0 |
| 75-84 years | 7,520 | 3,784.0 | 7,100 | 3,836.2 |
| 85 years and over | 5,349 | 9,687.6 | 4,926 | 9,953.1 |
| Not stated | 5 | ... | 12 | ... |
| Age-adjusted rate ² | ... | 273.4 | ... | 279.1 |
| Asian or Pacific Islander, male | | | | |
| All ages | 16,743 | 348.9 | 16,174 | 348.7 |
| Under 1 year ¹ | 368 | 418.5 | 387 | 453.2 |
| 1-4 years | 71 | 20.5 | 92 | 26.8 |
| 5-14 years | 150 | 18.8 | 141 | 18.4 |
| 15-24 years | 550 | 73.0 | 549 | 73.6 |
| 25-34 years | 628 | 73.0 | 658 | 78.6 |
| 35-44 years | 980 | 122.3 | 963 | 124.7 |
| 45-54 years | 1,487 | 272.0 | 1,459 | 283.1 |
| 55-64 years | 2,276 | 733.7 | 2,108 | 717.7 |
| 65-74 years | 3,600 | 1,919.4 | 3,529 | 1,947.7 |
| 75-84 years | 4,029 | 4,757.9 | 3,851 | 4,835.0 |
| 85 years and over | 2,601 | 11,425.4 | 2,427 | 11,880.2 |
| Not stated | 4 | ... | 10 | ... |
| Age-adjusted rate ² | ... | 351.0 | ... | 357.2 |
| Asian or Pacific Islander, female | | | | |
| All ages | 13,194 | 257.8 | 12,599 | 255.6 |
| Under 1 year ¹ | 289 | 339.7 | 286 | 346.1 |
| 1-4 years | 64 | 19.2 | 90 | 27.4 |
| 5-14 years | 94 | 12.4 | 88 | 12.1 |
| 15-24 years | 222 | 30.1 | 231 | 31.8 |
| 25-34 years | 320 | 34.3 | 326 | 36.2 |
| 35-44 years | 613 | 69.6 | 589 | 69.2 |
| 45-54 years | 1,102 | 176.9 | 1,060 | 181.5 |
| 55-64 years | 1,495 | 415.0 | 1,536 | 446.1 |
| 65-74 years | 2,755 | 1,063.4 | 2,643 | 1,068.3 |
| 75-84 years | 3,492 | 3,061.8 | 3,249 | 3,081.6 |
| 85 years and over | 2,747 | 8,465.3 | 2,499 | 8,598.6 |
| Not stated | 1 | ... | 2 | ... |
| Age-adjusted rate ² | ... | 211.4 | ... | 216.5 |

See footnotes at end of table.

Table 10. Deaths and death rates by age, sex, and race and Hispanic origin and age-adjusted death rates, by sex and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Age-specific rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population. The number of deaths and death rates for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and censuses and surveys; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Age, race/Hispanic origin, and sex | 12 months ending June | | | |
|---|-----------------------|----------|--------|----------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| Hispanic⁴, both sexes | | | | |
| All ages | 92,795 | 322.7 | 95,975 | 345.4 |
| Under 1 year ¹ | 4,115 | 610.1 | 4,124 | 620.5 |
| 1-4 years | 787 | 30.1 | 912 | 35.5 |
| 5-14 years | 972 | 18.3 | 1,107 | 21.7 |
| 15-24 years | 4,365 | 86.5 | 4,958 | 100.9 |
| 25-34 years | 5,725 | 110.4 | 7,039 | 137.7 |
| 35-44 years | 7,651 | 178.6 | 8,866 | 217.7 |
| 45-54 years | 8,633 | 341.2 | 8,860 | 372.8 |
| 55-64 years | 11,130 | 753.4 | 11,501 | 806.6 |
| 65-74 years | 17,377 | 1,731.4 | 17,328 | 1,786.4 |
| 75-84 years | 17,798 | 3,806.1 | 17,383 | 3,938.4 |
| 85 years and over | 14,183 | 9,073.2 | 13,823 | 9,535.3 |
| Not stated | 60 | ... | 74 | ... |
| Age-adjusted rate ² | ... | 348.4 | ... | 376.2 |
| Hispanic⁴, male | | | | |
| All ages | 53,699 | 363.4 | 56,387 | 395.2 |
| Under 1 year ¹ | 2,393 | 692.1 | 2,361 | 693.2 |
| 1-4 years | 434 | 32.3 | 515 | 39.2 |
| 5-14 years | 568 | 20.9 | 672 | 25.7 |
| 15-24 years | 3,506 | 129.2 | 4,031 | 152.4 |
| 25-34 years | 4,406 | 157.3 | 5,533 | 200.9 |
| 35-44 years | 5,524 | 248.6 | 6,605 | 313.7 |
| 45-54 years | 5,801 | 463.5 | 6,000 | 511.9 |
| 55-64 years | 6,847 | 984.6 | 6,955 | 1,037.7 |
| 65-74 years | 9,852 | 2,207.3 | 9,779 | 2,270.4 |
| 75-84 years | 8,874 | 4,781.2 | 8,591 | 4,963.8 |
| 85 years and over | 5,438 | 10,199.0 | 5,277 | 10,688.2 |
| Not stated | 57 | ... | 68 | ... |
| Age-adjusted rate ² | ... | 451.4 | ... | 490.5 |
| Hispanic⁴, female | | | | |
| All ages | 39,096 | 279.7 | 39,588 | 292.8 |
| Under 1 year ¹ | 1,722 | 523.8 | 1,763 | 544.1 |
| 1-4 years | 354 | 27.8 | 397 | 31.7 |
| 5-14 years | 404 | 15.6 | 435 | 17.5 |
| 15-24 years | 859 | 36.8 | 927 | 40.9 |
| 25-34 years | 1,319 | 55.3 | 1,506 | 63.9 |
| 35-44 years | 2,126 | 103.2 | 2,261 | 115.0 |
| 45-54 years | 2,833 | 221.5 | 2,860 | 237.5 |
| 55-64 years | 4,283 | 547.8 | 4,546 | 601.6 |
| 65-74 years | 7,525 | 1,350.2 | 7,549 | 1,399.9 |
| 75-84 years | 8,924 | 3,164.3 | 8,792 | 3,277.0 |
| 85 years and over | 8,745 | 8,490.5 | 8,546 | 8,939.8 |
| Not stated | 3 | ... | 6 | ... |
| Age-adjusted rate ² | ... | 256.2 | ... | 272.7 |

... Category not applicable.

- Quantity zero.

¹ Death rates are based on population estimates; they differ from infant mortality rates, which are based on live births and are shown separately for "Under 1 year."

² For method of computation, see Technical notes.

³ Includes deaths among Aleuts and Eskimos.

⁴ Race and Hispanic origin are reported separately on the death certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the decedent's reported race; see Technical notes. Hispanic origin data exclude Oklahoma; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 11. Deaths, death rates, and age-adjusted death rates for 72 selected causes, Human immunodeficiency virus infection, Alzheimer's disease, Injury by firearms, Drug-induced deaths, Alcohol-induced deaths, and Injury at work: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States. Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) | 12 months ending June | | | | | |
|--|-----------------------|-------|-------------------|-----------|-------|-------------------|
| | 1997 | | | 1996 | | |
| | Number | Rate | Age-adjusted rate | Number | Rate | Age-adjusted rate |
| All causes | 2,334,716 | 876.1 | 487.5 | 2,317,625 | 877.3 | 498.7 |
| Shigellosis and amebiasis (004,006) | 7 | * | * | 9 | * | * |
| Certain other intestinal infections (007-009) | 896 | 0.3 | 0.2 | 852 | 0.3 | 0.2 |
| Tuberculosis (010-018) | 1,169 | 0.4 | 0.3 | 1,251 | 0.5 | 0.3 |
| Tuberculosis of respiratory system (010-012) | 884 | 0.3 | 0.2 | 962 | 0.4 | 0.2 |
| Other tuberculosis (013-018) | 284 | 0.1 | 0.1 | 289 | 0.1 | 0.1 |
| Whooping cough (033) | 4 | * | * | 3 | * | * |
| Streptococcal sore throat, scarlatina, and erysipelas (034-035) | 9 | * | * | 11 | * | * |
| Meningococcal infection (036) | 290 | 0.1 | 0.1 | 288 | 0.1 | 0.1 |
| Septicemia (038) | 22,630 | 8.5 | 4.3 | 21,024 | 8.0 | 4.0 |
| Acute poliomyelitis (045) | 1 | * | * | 1 | * | * |
| Measles (055) | 1 | * | * | - | * | * |
| Viral hepatitis (070) | 3,848 | 1.4 | 1.1 | 3,557 | 1.3 | 1.1 |
| Syphilis (090-097) | 64 | 0.0 | 0.0 | 58 | 0.0 | 0.0 |
| All other infectious and parasitic diseases (001-003,005,020-032,037,039-041,*042-*044,046-054,056-066,071-088,098-139) | 29,558 | 11.1 | 9.9 | 46,753 | 17.7 | 16.2 |
| Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 540,656 | 202.9 | 126.9 | 540,176 | 204.5 | 129.1 |
| Malignant neoplasms of lip, oral cavity, and pharynx (140-149) | 7,935 | 3.0 | 2.1 | 7,865 | 3.0 | 2.1 |
| Malignant neoplasms of digestive organs and peritoneum (150-159) | 126,130 | 47.3 | 28.1 | 126,990 | 48.1 | 28.9 |
| Malignant neoplasms of respiratory and intrathoracic organs (160-165) | 158,599 | 59.5 | 39.2 | 157,116 | 59.5 | 39.5 |
| Malignant neoplasm of breast (174-175) | 42,743 | 16.0 | 10.7 | 44,216 | 16.7 | 11.3 |
| Malignant neoplasms of genital organs (179-187) | 59,787 | 22.4 | 12.3 | 60,380 | 22.9 | 12.6 |
| Malignant neoplasms of urinary organs (188-189) | 23,201 | 8.7 | 5.1 | 22,858 | 8.7 | 5.1 |
| Malignant neoplasms of all other and unspecified sites (170-173,190-199) | 66,526 | 25.0 | 16.5 | 66,097 | 25.0 | 16.6 |
| Leukemia (204-208) | 20,193 | 7.6 | 4.7 | 20,489 | 7.8 | 4.9 |
| Other malignant neoplasms of lymphatic and hematopoietic tissues (200-203) | 35,543 | 13.3 | 8.3 | 34,165 | 12.9 | 8.1 |
| Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239) | 7,870 | 3.0 | 1.7 | 7,746 | 2.9 | 1.7 |
| Diabetes mellitus (250) | 62,570 | 23.5 | 13.6 | 60,376 | 22.9 | 13.5 |
| Nutritional deficiencies (260-269) | 3,892 | 1.5 | 0.5 | 3,740 | 1.4 | 0.5 |
| Anemias (280-285) | 4,389 | 1.6 | 0.8 | 4,400 | 1.7 | 0.8 |
| Meningitis (320-322) | 788 | 0.3 | 0.3 | 707 | 0.3 | 0.2 |
| Major cardiovascular diseases (390-448) | 954,529 | 358.2 | 168.9 | 951,801 | 360.3 | 172.8 |
| Diseases of heart (390-398,402,404-429) | 735,384 | 276.0 | 132.9 | 736,221 | 278.7 | 136.4 |
| Rheumatic fever and rheumatic heart disease (390-398) | 4,847 | 1.8 | 1.0 | 5,062 | 1.9 | 1.1 |
| Hypertensive heart disease (402) | 26,314 | 9.9 | 5.1 | 25,722 | 9.7 | 5.2 |
| Hypertensive heart and renal disease (404) | 2,471 | 0.9 | 0.4 | 2,455 | 0.9 | 0.4 |
| Ischemic heart disease (410-414) | 474,684 | 178.1 | 85.2 | 478,622 | 181.2 | 88.0 |
| Acute myocardial infarction (410) | 211,150 | 79.2 | 41.0 | 216,763 | 82.1 | 43.0 |
| Other acute and subacute forms of ischemic heart disease (411) | 3,044 | 1.1 | 0.6 | 2,728 | 1.0 | 0.6 |
| Angina pectoris (413) | 787 | 0.3 | 0.1 | 843 | 0.3 | 0.1 |
| Old myocardial infarction and other forms of chronic ischemic heart disease (412,414) | 259,702 | 97.5 | 43.5 | 258,288 | 97.8 | 44.2 |
| Other diseases of endocardium (424) | 17,376 | 6.5 | 2.7 | 16,855 | 6.4 | 2.7 |
| All other forms of heart disease (415-423,425-429) | 209,693 | 78.7 | 38.4 | 207,505 | 78.6 | 39.0 |
| Hypertension with or without renal disease (401,403) | 13,235 | 5.0 | 2.3 | 12,674 | 4.8 | 2.3 |
| Cerebrovascular diseases (430-438) | 161,681 | 60.7 | 26.3 | 159,350 | 60.3 | 26.6 |
| Intracerebral and other intracranial hemorrhage (431-432) | 24,906 | 9.3 | 5.4 | 23,022 | 8.7 | 5.1 |
| Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0,434.9) Cerebral embolism (434.1) | 12,727 | 4.8 | 2.0 | 13,514 | 5.1 | 2.1 |
| All other and late effects of cerebrovascular diseases (430,433,435-438) | 635 | 0.2 | 0.1 | 646 | 0.2 | 0.1 |
| Atherosclerosis (440) | 123,413 | 46.3 | 18.8 | 122,168 | 46.2 | 19.2 |
| Other diseases of arteries, arterioles, and capillaries (441-448) | 16,424 | 6.2 | 2.1 | 16,764 | 6.3 | 2.2 |
| Other diseases of arteries, arterioles, and capillaries (441-448) | 27,805 | 10.4 | 5.3 | 26,792 | 10.1 | 5.3 |
| Acute bronchitis and bronchiolitis (466) | 492 | 0.2 | 0.1 | 494 | 0.2 | 0.1 |
| Pneumonia and influenza (480-487) | 88,878 | 33.4 | 13.3 | 82,399 | 31.2 | 12.7 |
| Pneumonia (480-486) | 87,839 | 33.0 | 13.1 | 81,803 | 31.0 | 12.6 |
| Influenza (487) | 1,039 | 0.4 | 0.1 | 596 | 0.2 | 0.1 |
| Chronic obstructive pulmonary diseases and allied conditions (490-496) | 110,259 | 41.4 | 21.5 | 103,424 | 39.2 | 20.6 |
| Bronchitis, chronic and unspecified (490-491) | 3,169 | 1.2 | 0.6 | 3,217 | 1.2 | 0.6 |
| Emphysema (492) | 17,848 | 6.7 | 3.7 | 16,929 | 6.4 | 3.5 |
| Asthma (493) | 5,538 | 2.1 | 1.5 | 5,648 | 2.1 | 1.5 |
| Other chronic obstructive pulmonary diseases and allied conditions (494-496) | 83,704 | 31.4 | 15.8 | 77,630 | 29.4 | 14.9 |

See footnotes at end of table.

Table 11. Deaths, death rates, and age-adjusted death rates for 72 selected causes, Human immunodeficiency virus infection, Alzheimer's disease, Injury by firearms, Drug-induced deaths, Alcohol-induced deaths, and Injury at work: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) | 12 months ending June | | | | | |
|--|-----------------------|------|-------------------|---------|------|-------------------|
| | 1997 | | | 1996 | | |
| | Number | Rate | Age-adjusted rate | Number | Rate | Age-adjusted rate |
| Ulcer of stomach and duodenum (531-533) | 5,104 | 1.9 | 0.9 | 5,231 | 2.0 | 1.0 |
| Appendicitis (540-543) | 398 | 0.1 | 0.1 | 403 | 0.2 | 0.1 |
| Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560) | 6,674 | 2.5 | 1.1 | 6,307 | 2.4 | 1.1 |
| Chronic liver disease and cirrhosis (571) | 24,803 | 9.3 | 7.3 | 25,477 | 9.6 | 7.7 |
| Cholelithiasis and other disorders of gallbladder (574-575) | 2,885 | 1.1 | 0.5 | 2,696 | 1.0 | 0.5 |
| Nephritis, nephrotic syndrome, and nephrosis (580-589) | 25,550 | 9.6 | 4.5 | 23,733 | 9.0 | 4.2 |
| Acute glomerulonephritis and nephrotic syndrome (580-581) | 310 | 0.1 | 0.0 | 289 | 0.1 | 0.1 |
| Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (582-583,587) | 1,682 | 0.6 | 0.3 | 1,537 | 0.6 | 0.3 |
| Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (584-586,588-589) | 23,558 | 8.8 | 4.1 | 21,907 | 8.3 | 3.9 |
| Infections of kidney (590) | 868 | 0.3 | 0.2 | 912 | 0.3 | 0.1 |
| Hyperplasia of prostate (600) | 453 | 0.2 | 0.1 | 419 | 0.2 | 0.1 |
| Complications of pregnancy, childbirth, and the puerperium (630-676) | 262 | 0.1 | 0.1 | 288 | 0.1 | 0.1 |
| Pregnancy with abortive outcome (630-638) | 30 | 0.0 | 0.0 | 37 | 0.0 | 0.0 |
| Other complications of pregnancy, childbirth, and the puerperium (640-676) | 232 | 0.1 | 0.1 | 251 | 0.1 | 0.1 |
| Congenital anomalies (740-759) | 11,725 | 4.4 | 4.2 | 11,814 | 4.5 | 4.3 |
| Certain conditions originating in the perinatal period (760-779) | 12,652 | 4.7 | 5.2 | 13,183 | 5.0 | 5.3 |
| Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (767-769) | 1,929 | 0.7 | 0.8 | 2,060 | 0.8 | 0.8 |
| Other conditions originating in the perinatal period (760-766,770-779) | 10,723 | 4.0 | 4.4 | 11,123 | 4.2 | 4.5 |
| Symptoms, signs, and ill-defined conditions (780-799) | 30,954 | 11.6 | 8.2 | 27,085 | 10.3 | 7.0 |
| All other diseases (Residual) | 232,578 | 87.3 | 42.4 | 218,867 | 82.9 | 41.2 |
| Accidents and adverse effects (E800-E949) | 93,597 | 35.1 | 29.6 | 95,519 | 36.2 | 30.9 |
| Motor vehicle accidents (E810-E825) | 43,415 | 16.3 | 16.0 | 44,035 | 16.7 | 16.4 |
| All other accidents and adverse effects (E800-E807,E826-E949) | 50,182 | 18.8 | 13.6 | 51,484 | 19.5 | 14.4 |
| Suicide (E950-E959) | 30,246 | 11.3 | 10.5 | 30,987 | 11.7 | 11.0 |
| Homicide and legal intervention (E960-E978) | 20,002 | 7.5 | 8.1 | 22,212 | 8.4 | 9.0 |
| All other external causes (E980-E999) | 3,166 | 1.2 | 1.1 | 3,422 | 1.3 | 1.2 |
| Human immunodeficiency virus infection ¹ (*042-*044) | 22,567 | 8.5 | 8.0 | 39,767 | 15.1 | 14.2 |
| Alzheimer's disease ² (331.0) | 22,638 | 8.5 | 2.8 | 21,020 | 8.0 | 2.7 |
| Injury by firearms ³ (E922,E955.0-E955.4,E965.0-E965.4,E970,E985.0-E985.4) | 33,104 | 12.4 | 12.5 | 35,178 | 13.3 | 13.4 |
| Drug-induced deaths ³ (292,304,305.2-305.9,E850-E858,E950.0-E950.5,E962.0,E980.0-E980.5) | 13,686 | 5.1 | 4.8 | 14,448 | 5.5 | 5.1 |
| Alcohol-induced deaths ³ (291,303,305.0,357.5,425.5,535.3,571.0-571.3,790.3,E860) | 19,300 | 7.2 | 6.2 | 20,198 | 7.6 | 6.6 |
| Injury at work ⁴ | 5,782 | 2.2 | 2.1 | 5,789 | 2.2 | 2.1 |

- Quantity zero.
 * Figure does not meet standards of reliability or precision (see Technical notes).
 1 Included in All other infectious and parasitic diseases.
 2 Included in All other diseases.
 3 Included in selected categories.
 4 Injury at work described in Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 12. Deaths, death rates, and age-adjusted death rates for 16 selected subcategories of Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States. Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual]

| Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) | 12 months ending June | | | | | |
|---|-----------------------|-------|-------------------|---------|-------|-------------------|
| | 1997 | | | 1996 | | |
| | Number | Rate | Age-adjusted rate | Number | Rate | Age-adjusted rate |
| Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues ¹ (140-208) | 540,656 | 202.9 | 126.9 | 540,176 | 204.5 | 129.1 |
| Malignant neoplasm of esophagus (150) | 11,286 | 4.2 | 2.8 | 11,157 | 4.2 | 2.9 |
| Malignant neoplasm of stomach (151) | 13,172 | 4.9 | 2.9 | 13,393 | 5.1 | 3.1 |
| Malignant neoplasm of colon, rectum, rectosigmoid junction, and anus (153,154) | 56,341 | 21.1 | 12.0 | 56,995 | 21.6 | 12.4 |
| Malignant neoplasm of pancreas (157) | 27,215 | 10.2 | 6.1 | 27,245 | 10.3 | 6.2 |
| Malignant neoplasm of trachea, bronchus, and lung (162) | 153,387 | 57.6 | 37.8 | 151,906 | 57.5 | 38.1 |
| Malignant neoplasm of skin (172) | 7,260 | 2.7 | 1.9 | 7,059 | 2.7 | 1.9 |
| Malignant neoplasm of cervix uteri (180) | 4,529 | 1.7 | 1.3 | 4,503 | 1.7 | 1.3 |
| Malignant neoplasm of body of uterus and of uterus, part unspecified (179,182) | 6,251 | 2.3 | 1.4 | 6,284 | 2.4 | 1.4 |
| Malignant neoplasm of ovary (183.0) | 13,487 | 5.1 | 3.2 | 13,225 | 5.0 | 3.3 |
| Malignant neoplasm of prostate (185) | 33,639 | 12.6 | 5.9 | 34,411 | 13.0 | 6.2 |
| Malignant neoplasm of bladder (188) | 11,448 | 4.3 | 2.2 | 11,293 | 4.3 | 2.2 |
| Malignant neoplasm of kidney and other and unspecified urinary organs (189) | 11,753 | 4.4 | 2.9 | 11,565 | 4.4 | 2.9 |
| Malignant neoplasm of brain and other and unspecified parts of nervous system (191,192) | 12,401 | 4.7 | 3.6 | 12,265 | 4.6 | 3.6 |
| Hodgkin's disease (201) | 1,468 | 0.6 | 0.4 | 1,399 | 0.5 | 0.4 |
| Malignant lymphoma other than Hodgkin's disease (200,202) | 23,556 | 8.8 | 5.5 | 22,617 | 8.6 | 5.4 |
| Multiple myeloma and other immunoproliferative neoplasms (203) | 10,519 | 3.9 | 2.4 | 10,149 | 3.8 | 2.3 |

¹ Includes figures for subcategories not shown.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 13. Deaths, death rates, and age-adjusted death rates: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1996 and 1997

[By place of residence. Data are based on a continuous file of records received from the States. Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Area | 12 months ending June | | | | | |
|-----------------------------------|-----------------------|---------|-------------------|-----------|---------|-------------------|
| | 1997 | | | 1996 | | |
| | Number | Rate | Age-adjusted rate | Number | Rate | Age-adjusted rate |
| United States ¹ | 2,334,722 | 876.1 | 487.9 | 2,317,625 | 877.3 | 498.7 |
| Alabama | 43,157 | 1,010.0 | 580.9 | 43,062 | 1,012.5 | 589.8 |
| Alaska | 2,537 | 418.0 | 462.4 | 2,661 | 440.8 | 511.5 |
| Arizona | 37,100 | 837.8 | 479.8 | 36,456 | 864.3 | 511.9 |
| Arkansas | 27,284 | 1,087.1 | 564.7 | 26,968 | 1,085.8 | 566.7 |
| California ² | * | * | * | 226,581 | 717.3 | 466.3 |
| Colorado | 26,185 | 685.0 | 437.7 | 25,130 | 670.7 | 439.5 |
| Connecticut | 30,563 | 933.4 | 450.3 | 29,299 | 894.7 | 447.9 |
| Delaware | 6,569 | 906.3 | 524.7 | 6,333 | 883.0 | 527.3 |
| District of Columbia | 6,607 | 1,216.3 | 764.3 | 6,784 | 1,224.0 | 799.7 |
| Florida | 153,100 | 1,063.2 | 473.5 | 153,959 | 1,086.9 | 495.3 |
| Georgia | 60,129 | 817.7 | 570.1 | 59,222 | 822.4 | 578.6 |
| Hawaii | 7,965 | 672.9 | 386.5 | 7,777 | 655.3 | 395.7 |
| Idaho | 9,149 | 769.3 | 449.3 | 8,626 | 741.5 | 442.4 |
| Illinois | 106,348 | 897.7 | 505.7 | 107,246 | 906.6 | 518.6 |
| Indiana | 53,249 | 911.7 | 503.4 | 53,058 | 914.2 | 514.5 |
| Iowa | 28,028 | 982.8 | 430.5 | 28,185 | 991.8 | 440.8 |
| Kansas | 24,357 | 947.0 | 469.5 | 24,026 | 936.6 | 468.4 |
| Kentucky | 38,330 | 986.9 | 557.1 | 37,322 | 966.8 | 556.9 |
| Louisiana | 39,598 | 910.2 | 584.4 | 39,931 | 919.6 | 599.0 |
| Maine | 11,921 | 958.8 | 462.2 | 11,727 | 944.7 | 472.6 |
| Maryland | 42,487 | 837.7 | 520.8 | 41,430 | 821.6 | 525.5 |
| Massachusetts | 57,346 | 941.3 | 448.9 | 54,963 | 905.0 | 446.5 |
| Michigan | 84,777 | 883.6 | 507.5 | 83,515 | 874.6 | 509.8 |
| Minnesota | 37,730 | 810.0 | 417.1 | 37,460 | 812.7 | 420.3 |
| Mississippi | 27,012 | 994.5 | 607.1 | 27,308 | 1,012.4 | 626.2 |
| Missouri | 55,603 | 1,037.6 | 531.9 | 54,188 | 1,017.9 | 528.3 |
| Montana | 7,785 | 885.3 | 456.9 | 7,686 | 883.2 | 471.7 |
| Nebraska | 15,663 | 948.1 | 445.0 | 15,348 | 937.5 | 449.3 |
| Nevada | 13,052 | 814.1 | 541.8 | 12,954 | 846.6 | 575.1 |
| New Hampshire | 9,666 | 831.5 | 458.7 | 9,232 | 804.0 | 457.5 |
| New Jersey | 73,458 | 919.6 | 477.3 | 72,566 | 913.3 | 488.5 |
| New Mexico | 12,661 | 738.9 | 477.8 | 12,578 | 746.3 | 490.0 |
| New York | 164,650 | 905.4 | 482.4 | 165,544 | 912.8 | 502.7 |
| North Carolina | 66,660 | 910.3 | 538.9 | 65,771 | 914.1 | 547.2 |
| North Dakota | 6,225 | 967.3 | 433.2 | 6,008 | 936.7 | 428.3 |
| Ohio | 106,006 | 948.8 | 502.7 | 105,563 | 946.7 | 512.5 |
| Oklahoma | 33,633 | 1,018.9 | 543.2 | 33,155 | 1,011.5 | 543.3 |
| Oregon | 29,672 | 926.2 | 470.2 | 28,778 | 916.3 | 477.8 |
| Pennsylvania | 132,250 | 1,097.0 | 509.0 | 127,439 | 1,055.7 | 501.5 |
| Rhode Island | 9,981 | 1,008.0 | 455.3 | 9,533 | 963.1 | 450.2 |
| South Carolina | 33,808 | 914.0 | 576.2 | 33,798 | 920.1 | 586.8 |
| South Dakota | 6,882 | 939.6 | 448.9 | 6,840 | 938.2 | 454.5 |
| Tennessee | 52,115 | 979.7 | 563.5 | 51,708 | 983.8 | 575.5 |
| Texas | 140,188 | 732.9 | 491.6 | 140,770 | 751.8 | 509.9 |
| Utah | 11,571 | 578.4 | 420.1 | 11,124 | 570.0 | 423.6 |
| Vermont | 5,004 | 850.1 | 453.9 | 4,880 | 834.5 | 461.6 |
| Virginia | 54,297 | 813.4 | 502.0 | 52,882 | 799.0 | 503.6 |
| Washington | 42,177 | 762.3 | 437.9 | 41,144 | 757.6 | 446.5 |
| West Virginia | 20,940 | 1,146.9 | 552.9 | 20,379 | 1,114.7 | 550.5 |
| Wisconsin | 45,990 | 891.3 | 447.4 | 45,110 | 880.6 | 445.4 |
| Wyoming | 3,764 | 781.9 | 471.4 | 3,618 | 753.5 | 467.3 |
| Puerto Rico ³ | 30,289 | 800.7 | 584.2 | 29,582 | 792.9 | 594.3 |
| Virgin Islands ³ | 616 | 544.0 | 487.0 | 605 | 540.4 | 495.2 |
| Guam ³ | 632 | 436.5 | 523.3 | 602 | 418.5 | 507.2 |

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

¹ Excludes data for Puerto Rico, Virgin Islands, and Guam.

² Due to data processing problems, California data for 12 months ending June 1997 are not shown separately but are included in U.S. totals, see Technical notes.

³ Age-adjusted death rates for Puerto Rico, Virgin Islands, and Guam are calculated using a different procedure, see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 14. Infant deaths and infant mortality rates, by age and race and Hispanic origin: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States. Rates per 1,000 live births. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals. Rates for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on birth and death certificates; see Technical notes]

| Age and race | 12 months ending June | | | |
|-------------------------|-----------------------|------|--------|------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| All races ¹ | | | | |
| Under 1 year | 27,902 | 7.1 | 29,047 | 7.5 |
| Under 28 days | 18,179 | 4.7 | 18,883 | 4.9 |
| 28 days-11 months | 9,723 | 2.5 | 10,164 | 2.6 |
| White | | | | |
| Under 1 year | 18,630 | 6.0 | 19,243 | 6.2 |
| Under 28 days | 12,212 | 3.9 | 12,536 | 4.1 |
| 28 days-11 months | 6,418 | 2.1 | 6,707 | 2.2 |
| Black | | | | |
| Under 1 year | 8,281 | 13.8 | 8,834 | 14.9 |
| Under 28 days | 5,365 | 8.9 | 5,760 | 9.7 |
| 28 days-11 months | 2,915 | 4.8 | 3,074 | 5.2 |
| Hispanic ² | | | | |
| Under 1 year | 4,115 | 5.8 | 4,124 | 6.0 |
| Under 28 days | 2,651 | 3.7 | 2,682 | 3.9 |
| 28 days-11 months | 1,464 | 2.1 | 1,442 | 2.1 |

¹ Includes races other than white and black.

² Race and Hispanic origin are reported separately on both the birth and death certificates. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the decedent's reported race; see Technical notes. Hispanic origin data exclude Oklahoma; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 15. Infant deaths and infant mortality rates for 61 selected causes and Human immunodeficiency virus infection: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States. Rates per 100,000 live births. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) | 12 months ending June | | | |
|---|-----------------------|-------|--------|-------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| All causes | 27,899 | 714.8 | 29,047 | 748.3 |
| Certain intestinal infections (008-009) | 196 | 5.0 | 208 | 5.4 |
| Whooping cough (033) | 4 | * | 3 | * |
| Meningococcal infection (036) | 40 | 1.0 | 47 | 1.2 |
| Septicemia (038) | 201 | 5.1 | 206 | 5.3 |
| Viral diseases (045-079) | 92 | 2.4 | 107 | 2.8 |
| Congenital syphilis (090) | 6 | * | 4 | * |
| Remainder of infectious and parasitic diseases (001,007,010-032,034-035,037,039-041,*042-*044,080-088,091-139) | 152 | 3.9 | 170 | 4.4 |
| Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 101 | 2.6 | 79 | 2.0 |
| Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239) | 72 | 1.8 | 67 | 1.7 |
| Diseases of thymus gland (254) | 3 | * | 1 | * |
| Cystic fibrosis (277.0) | 9 | * | 9 | * |
| Diseases of blood and blood-forming organs (280-289) | 79 | 2.0 | 80 | 2.1 |
| Meningitis (320-322) | 113 | 2.9 | 100 | 2.6 |
| Other diseases of nervous system and sense organs (323-389) | 371 | 9.5 | 338 | 8.7 |
| Acute upper respiratory infections (460-465) | 14 | * | 17 | * |
| Bronchitis and bronchiolitis (466,490-491) | 100 | 2.6 | 97 | 2.5 |
| Pneumonia and influenza (480-487) | 427 | 10.9 | 519 | 13.4 |
| Pneumonia (480-486) | 412 | 10.6 | 509 | 13.1 |
| Influenza (487) | 14 | * | 10 | * |
| Remainder of diseases of respiratory system (470-478,492-519) | 278 | 7.1 | 249 | 6.4 |
| Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560) | 75 | 1.9 | 68 | 1.8 |
| Gastritis, duodenitis, and noninfective enteritis and colitis (535,555-558) | 76 | 1.9 | 83 | 2.1 |
| Remainder of diseases of digestive system (520-534,536-543,562-579) | 205 | 5.3 | 166 | 4.3 |
| Congenital anomalies (740-759) | 6,231 | 159.6 | 6,477 | 166.8 |
| Anencephalus and similar anomalies (740) | 332 | 8.5 | 347 | 8.9 |
| Spina bifida (741) | 55 | 1.4 | 53 | 1.4 |
| Congenital hydrocephalus (742.3) | 142 | 3.6 | 132 | 3.4 |
| Other congenital anomalies of central nervous system and eye (742.0-742.2,742.4-742.9,743) | 285 | 7.3 | 313 | 8.1 |
| Congenital anomalies of heart (745-746) | 1,880 | 48.2 | 1,946 | 50.1 |
| Other congenital anomalies of circulatory system (747) | 320 | 8.2 | 365 | 9.4 |
| Congenital anomalies of respiratory system (748) | 964 | 24.7 | 951 | 24.5 |
| Congenital anomalies of digestive system (749-751) | 82 | 2.1 | 88 | 2.3 |
| Congenital anomalies of genitourinary system (752-753) | 333 | 8.5 | 355 | 9.1 |
| Congenital anomalies of musculoskeletal system (754-756) | 434 | 11.1 | 484 | 12.5 |
| Down's syndrome (758.0) | 112 | 2.9 | 102 | 2.6 |
| Other chromosomal anomalies (758.1-758.9) | 749 | 19.2 | 787 | 20.3 |
| All other and unspecified congenital anomalies (744,757,759) | 543 | 13.9 | 554 | 14.3 |
| Certain conditions originating in the perinatal period (760-779) | 12,553 | 321.6 | 13,105 | 337.6 |
| Newborn affected by maternal conditions which may be unrelated to present pregnancy (760) | 153 | 3.9 | 193 | 5.0 |
| Newborn affected by maternal complications of pregnancy (761) | 1,266 | 32.4 | 1,262 | 32.5 |
| Newborn affected by complications of placenta, cord, and membranes (762) | 941 | 24.1 | 919 | 23.7 |
| Newborn affected by other complications of labor and delivery (763) | 73 | 1.9 | 76 | 2.0 |
| Slow fetal growth and fetal malnutrition (764) | 53 | 1.4 | 41 | 1.1 |
| Disorders relating to short gestation and unspecified low birthweight (765) | 3,677 | 94.2 | 3,818 | 98.4 |
| Disorders relating to long gestation and high birthweight (766) | - | * | - | * |
| Birth trauma (767) | 189 | 4.8 | 195 | 5.0 |
| Intrauterine hypoxia and birth asphyxia (768) | 413 | 10.6 | 483 | 12.4 |
| Fetal distress in liveborn infant (768.2-768.4) | 106 | 2.7 | 134 | 3.5 |
| Birth asphyxia (768.5-768.9) | 308 | 7.9 | 349 | 9.0 |
| Respiratory distress syndrome (769) | 1,299 | 33.3 | 1,360 | 35.0 |
| Other respiratory conditions of newborn (770) | 1,688 | 43.2 | 1,894 | 48.8 |
| Infections specific to the perinatal period (771) | 796 | 20.4 | 755 | 19.4 |
| Neonatal hemorrhage (772) | 334 | 8.6 | 301 | 7.8 |
| Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice (773-774) | 17 | * | 32 | 0.8 |
| Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus (775.0-775.1) | 13 | * | 8 | * |
| Hemorrhagic disease of newborn (776.0) | 1 | * | 4 | * |
| All other and ill-defined conditions originating in the perinatal period (775.2-775.9,776.1-779) | 1,638 | 42.0 | 1,764 | 45.4 |
| Symptoms, signs, and ill-defined conditions (780-799) | 3,910 | 100.2 | 4,182 | 107.7 |
| Sudden infant death syndrome (798.0) | 2,794 | 71.6 | 3,257 | 83.9 |
| Symptoms, signs, and all other ill-defined conditions (780-797,798.1-799) | 1,117 | 28.6 | 925 | 23.8 |
| Accidents and adverse effects (E800-E949) | 766 | 19.6 | 828 | 21.3 |

See footnotes at end of table.

Table 15. Infant deaths and infant mortality rates for 61 selected causes and Human immunodeficiency virus infection: United States, preliminary data for 12 months ending June 1996 and 1997 - Con.

[Data are based on a continuous file of records received from the States. Rates per 100,000 live births. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures for the 12 months ending June 1997 are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) | 12 months ending June | | | |
|--|-----------------------|------|--------|------|
| | 1997 | | 1996 | |
| | Number | Rate | Number | Rate |
| Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation (E911-E912) | 76 | 1.9 | 80 | 2.1 |
| Accidental mechanical suffocation (E913) | 285 | 7.3 | 300 | 7.7 |
| Other accidental causes and adverse effects (E800-E910,E914-E949) | 405 | 10.4 | 448 | 11.5 |
| Homicide (E960-E969) | 317 | 8.1 | 309 | 8.0 |
| Child battering and other maltreatment (E967) | 106 | 2.7 | 117 | 3.0 |
| Other homicide (E960-E966,E968-E969) | 211 | 5.4 | 192 | 4.9 |
| All other causes (Residual) | 1,509 | 38.7 | 1,528 | 39.4 |
| Human immunodeficiency virus infection ¹ (*042.*044) | 26 | 0.7 | 49 | 1.3 |

* Figure does not meet standard of reliability or precision (see Technical notes).
 - Quantity zero.
¹ Included in Remainder of infectious and parasitic diseases.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 16. Expectation of life by age, race, and sex: United States, preliminary data for 12 months ending June 1996 and 1997

[Data are based on a continuous file of records received from the States]

| Age (Years) and race | Both sexes | | Male | | Female | |
|-------------------------------|-----------------------|------|------|------|--------|------|
| | 12 months ending June | | | | | |
| | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 |
| All races ¹ | | | | | | |
| 0 | 76.2 | 75.9 | 73.3 | 72.8 | 79.1 | 79.0 |
| 1 | 75.8 | 75.5 | 72.8 | 72.4 | 78.6 | 78.5 |
| 5 | 71.9 | 71.6 | 69.0 | 68.5 | 74.7 | 74.7 |
| 10 | 66.9 | 66.7 | 64.0 | 63.6 | 69.7 | 69.7 |
| 15 | 62.0 | 61.8 | 59.1 | 58.6 | 64.8 | 64.8 |
| 20 | 57.2 | 57.0 | 54.4 | 54.0 | 59.9 | 59.9 |
| 25 | 52.5 | 52.3 | 49.8 | 49.4 | 55.1 | 55.1 |
| 30 | 47.8 | 47.6 | 45.2 | 44.8 | 50.2 | 50.2 |
| 35 | 43.1 | 42.9 | 40.5 | 40.2 | 45.4 | 45.4 |
| 40 | 38.4 | 38.3 | 36.0 | 35.8 | 40.7 | 40.7 |
| 45 | 33.9 | 33.8 | 31.5 | 31.4 | 36.0 | 36.1 |
| 50 | 29.5 | 29.4 | 27.2 | 27.1 | 31.4 | 31.5 |
| 55 | 25.2 | 25.2 | 23.1 | 23.0 | 27.0 | 27.1 |
| 60 | 21.2 | 21.2 | 19.2 | 19.2 | 22.8 | 22.9 |
| 65 | 17.5 | 17.5 | 15.7 | 15.7 | 18.9 | 19.0 |
| 70 | 14.1 | 14.1 | 12.5 | 12.5 | 15.2 | 15.3 |
| 75 | 11.0 | 11.1 | 9.8 | 9.8 | 11.9 | 12.0 |
| 80 | 8.3 | 8.4 | 7.3 | 7.3 | 8.8 | 9.0 |
| 85 | 6.0 | 6.1 | 5.3 | 5.3 | 6.3 | 6.4 |
| White | | | | | | |
| 0 | 76.9 | 76.7 | 74.0 | 73.6 | 79.6 | 79.6 |
| 1 | 76.3 | 76.1 | 73.5 | 73.1 | 79.0 | 79.1 |
| 5 | 72.4 | 72.2 | 69.6 | 69.2 | 75.1 | 75.1 |
| 10 | 67.5 | 67.3 | 64.7 | 64.3 | 70.2 | 70.2 |
| 15 | 62.5 | 62.4 | 59.8 | 59.4 | 65.2 | 65.3 |
| 20 | 57.8 | 57.6 | 55.0 | 54.7 | 60.4 | 60.4 |
| 25 | 53.0 | 52.8 | 50.4 | 50.0 | 55.5 | 55.5 |
| 30 | 48.2 | 48.1 | 45.7 | 45.4 | 50.6 | 50.7 |
| 35 | 43.5 | 43.4 | 41.0 | 40.8 | 45.8 | 45.9 |
| 40 | 38.8 | 38.8 | 36.4 | 36.3 | 41.0 | 41.1 |
| 45 | 34.2 | 34.2 | 31.9 | 31.8 | 36.3 | 36.4 |
| 50 | 29.7 | 29.7 | 27.5 | 27.4 | 31.7 | 31.7 |
| 55 | 25.4 | 25.4 | 23.3 | 23.2 | 27.2 | 27.3 |
| 60 | 21.3 | 21.3 | 19.4 | 19.3 | 23.0 | 23.1 |
| 65 | 17.5 | 17.6 | 15.8 | 15.8 | 19.0 | 19.1 |
| 70 | 14.1 | 14.2 | 12.6 | 12.6 | 15.3 | 15.4 |
| 75 | 11.0 | 11.1 | 9.8 | 9.8 | 11.9 | 12.0 |
| 80 | 8.3 | 8.4 | 7.3 | 7.3 | 8.8 | 9.0 |
| 85 | 5.9 | 6.0 | 5.3 | 5.3 | 6.2 | 6.4 |
| Black | | | | | | |
| 0 | 70.7 | 69.9 | 66.7 | 65.6 | 74.4 | 74.0 |
| 1 | 70.7 | 69.9 | 66.7 | 65.6 | 74.4 | 74.0 |
| 5 | 66.8 | 66.1 | 62.9 | 61.8 | 70.5 | 70.2 |
| 10 | 61.9 | 61.2 | 58.0 | 56.9 | 65.6 | 65.3 |
| 15 | 57.0 | 56.3 | 53.1 | 52.0 | 60.7 | 60.4 |
| 20 | 52.3 | 51.6 | 48.6 | 47.5 | 55.8 | 55.5 |
| 25 | 47.8 | 47.1 | 44.2 | 43.2 | 51.0 | 50.7 |
| 30 | 43.3 | 42.6 | 39.8 | 38.9 | 46.3 | 46.0 |
| 35 | 38.8 | 38.3 | 35.5 | 34.7 | 41.7 | 41.5 |
| 40 | 34.4 | 34.0 | 31.3 | 30.7 | 37.2 | 37.0 |
| 45 | 30.2 | 30.0 | 27.3 | 26.8 | 32.8 | 32.7 |
| 50 | 26.3 | 26.0 | 23.6 | 23.2 | 28.6 | 28.5 |
| 55 | 22.5 | 22.3 | 20.0 | 19.8 | 24.5 | 24.5 |
| 60 | 19.0 | 18.9 | 16.8 | 16.6 | 20.7 | 20.7 |
| 65 | 15.9 | 15.7 | 14.0 | 13.8 | 17.3 | 17.2 |
| 70 | 12.8 | 12.8 | 11.3 | 11.1 | 13.9 | 13.9 |
| 75 | 10.3 | 10.3 | 9.1 | 9.0 | 11.2 | 11.1 |
| 80 | 8.0 | 7.9 | 7.0 | 6.9 | 8.5 | 8.5 |
| 85 | 5.9 | 5.9 | 5.4 | 5.3 | 6.2 | 6.2 |

¹ Includes races other than white and black.

NOTE: Data are subject to sampling and/or random variation.

Table 17. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, preliminary data for 12 months ending June 1997

[Data are based on a continuous file of records received from the States. Rates per 100,000 population in specified group. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Rank ¹ | Cause of death and age (Based on the Ninth Revision, International Classification of Diseases, 1975) | Number | Rate |
|-----------------------|--|-----------|-------|
| All ages ² | | | |
| ... | All causes | 2,334,716 | 876.1 |
| 1 | Diseases of heart (390-398, 402, 404-429) | 735,384 | 276.0 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 540,656 | 202.9 |
| 3 | Cerebrovascular diseases (430-438) | 161,681 | 60.7 |
| 4 | Chronic obstructive pulmonary diseases and allied conditions (490-496) | 110,259 | 41.4 |
| 5 | Accidents and adverse effects (E800-E949) | 93,597 | 35.1 |
| ... | Motor vehicle accidents (E810-E825) | 43,415 | 16.3 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 50,182 | 18.8 |
| 6 | Pneumonia and influenza (480-487) | 88,878 | 33.4 |
| 7 | Diabetes mellitus (250) | 62,570 | 23.5 |
| 8 | Suicide (E950-E959) | 30,246 | 11.3 |
| 9 | Nephritis, nephrotic syndrome, and nephrosis (580-589) | 25,550 | 9.6 |
| 10 | Chronic liver disease and cirrhosis (571) | 24,803 | 9.3 |
| ... | All other causes (Residual) | 461,092 | 173.0 |
| 1-4 years | | | |
| ... | All causes | 5,506 | 35.7 |
| 1 | Accidents and adverse effects (E800-E949) | 1,974 | 12.8 |
| ... | Motor vehicle accidents (E810-E825) | 762 | 4.9 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 1,212 | 7.9 |
| 2 | Congenital anomalies (740-759) | 600 | 3.9 |
| 3 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 421 | 2.7 |
| 4 | Homicide and legal intervention (E960-E978) | 378 | 2.5 |
| 5 | Diseases of heart (390-398, 402, 404-429) | 215 | 1.4 |
| 6 | Pneumonia and influenza (480-487) | 144 | 0.9 |
| 7 | Human immunodeficiency virus infection (*042-*044) | 88 | 0.6 |
| 8 | Septicemia (038) | 71 | 0.5 |
| 9 | Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239) | 63 | 0.4 |
| 10 | Cerebrovascular diseases (430-438) | 52 | 0.3 |
| ... | All other causes (Residual) | 1,500 | 9.7 |
| 5-14 years | | | |
| ... | All causes | 8,111 | 21.0 |
| 1 | Accidents and adverse effects (E800-E949) | 3,288 | 8.5 |
| ... | Motor vehicle accidents (E810-E825) | 1,929 | 5.0 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 1,359 | 3.5 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 1,015 | 2.6 |
| 3 | Homicide and legal intervention (E960-E978) | 479 | 1.2 |
| 4 | Congenital anomalies (740-759) | 425 | 1.1 |
| 5 | Diseases of heart (390-398, 402, 404-429) | 319 | 0.8 |
| 6 | Suicide (E950-E959) | 283 | 0.7 |
| 7 | Chronic obstructive pulmonary diseases and allied conditions (490-496) | 160 | 0.4 |
| 8 | Human immunodeficiency virus infection (*042-*044) | 154 | 0.4 |
| 9 | Pneumonia and influenza (480-487) | 137 | 0.4 |
| 10 | Cerebrovascular diseases (430-438) | 93 | 0.2 |
| ... | All other causes (Residual) | 1,758 | 4.6 |
| 15-24 years | | | |
| ... | All causes | 31,743 | 87.3 |
| 1 | Accidents and adverse effects (E800-E949) | 13,416 | 36.9 |
| ... | Motor vehicle accidents (E810-E825) | 10,275 | 28.3 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 3,141 | 8.6 |
| 2 | Homicide and legal intervention (E960-E978) | 6,220 | 17.1 |
| 3 | Suicide (E950-E959) | 4,199 | 11.6 |
| 4 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 1,627 | 4.5 |
| 5 | Diseases of heart (390-398, 402, 404-429) | 982 | 2.7 |
| 6 | Congenital anomalies (740-759) | 368 | 1.0 |
| 7 | Human immunodeficiency virus infection (*042-*044) | 302 | 0.8 |
| 8 | Chronic obstructive pulmonary diseases and allied conditions (490-496) | 226 | 0.6 |
| 9 | Pneumonia and influenza (480-487) | 217 | 0.6 |
| 10 | Cerebrovascular diseases (430-438) | 182 | 0.5 |
| ... | All other causes (Residual) | 4,004 | 11.0 |

See footnotes at end of table.

Table 17. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, preliminary data for 12 months ending June 1997 - Con.

[Data are based on a continuous file of records received from the States. Rates per 100,000 population in specified group. For explanation of asterisks preceding cause-of-death categories, see Technical notes. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

| Rank ¹ | Cause of death and age (Based on the Ninth Revision, International Classification of Diseases, 1975) | Number | Rate |
|-------------------|--|-----------|---------|
| 25-44 years | | | |
| ... | All causes | 139,719 | 166.7 |
| 1 | Accidents and adverse effects (E800-E949) | 26,087 | 31.1 |
| ... | Motor vehicle accidents (E810-E825) | 14,219 | 17.0 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 11,868 | 14.2 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 21,789 | 26.0 |
| 3 | Diseases of heart (390-398, 402, 404-429) | 16,019 | 19.1 |
| 4 | Human immunodeficiency virus infection (*042-*044) | 15,439 | 18.4 |
| 5 | Suicide (E950-E959) | 12,330 | 14.7 |
| 6 | Homicide and legal intervention (E960-E978) | 8,905 | 10.6 |
| 7 | Chronic liver disease and cirrhosis (571) | 4,048 | 4.8 |
| 8 | Cerebrovascular diseases (430-438) | 3,427 | 4.1 |
| 9 | Diabetes mellitus (250) | 2,496 | 3.0 |
| 10 | Pneumonia and influenza (480-487) | 2,036 | 2.4 |
| ... | All other causes (Residual) | 27,143 | 32.4 |
| 45-64 years | | | |
| ... | All causes | 377,675 | 692.0 |
| 1 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 131,366 | 240.7 |
| 2 | Diseases of heart (390-398, 402, 404-429) | 101,513 | 186.0 |
| 3 | Accidents and adverse effects (E800-E949) | 16,708 | 30.6 |
| ... | Motor vehicle accidents (E810-E825) | 8,021 | 14.7 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 8,687 | 15.9 |
| 4 | Cerebrovascular diseases (430-438) | 15,381 | 28.2 |
| 5 | Chronic obstructive pulmonary diseases and allied conditions (490-496) | 13,106 | 24.0 |
| 6 | Diabetes mellitus (250) | 12,580 | 23.0 |
| 7 | Chronic liver disease and cirrhosis (571) | 10,719 | 19.6 |
| 8 | Suicide (E950-E959) | 7,679 | 14.1 |
| 9 | Human immunodeficiency virus infection (*042-*044) | 6,055 | 11.1 |
| 10 | Pneumonia and influenza (480-487) | 5,977 | 11.0 |
| ... | All other causes (Residual) | 56,591 | 103.7 |
| 65 years and over | | | |
| ... | All causes | 1,743,587 | 5,129.2 |
| 1 | Diseases of heart (390-398, 402, 404-429) | 615,618 | 1,811.0 |
| 2 | Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208) | 384,319 | 1,130.6 |
| 3 | Cerebrovascular diseases (430-438) | 142,306 | 418.6 |
| 4 | Chronic obstructive pulmonary diseases and allied conditions (490-496) | 95,523 | 281.0 |
| 5 | Pneumonia and influenza (480-487) | 79,932 | 235.1 |
| 6 | Diabetes mellitus (250) | 47,328 | 139.2 |
| 7 | Accidents and adverse effects (E800-E949) | 31,237 | 91.9 |
| ... | Motor vehicle accidents (E810-E825) | 7,969 | 23.4 |
| ... | All other accidents and adverse effects (E800-E807, E826-E949) | 23,269 | 68.5 |
| 8 | Alzheimer's disease (331.0) | 22,326 | 65.7 |
| 9 | Nephritis, nephrotic syndrome, and nephrosis (580-589) | 22,023 | 64.8 |
| 10 | Septicemia (038) | 18,298 | 53.8 |
| ... | All other causes (Residual) | 284,677 | 837.5 |

¹ Rank based on number of deaths; see Technical notes.
² Includes deaths under 1 year of age.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Table 18. Infant deaths and infant mortality rates for the 10 leading causes of infant death, by race and Hispanic origin: United States, preliminary data for 12 months ending June 1997

[Data are based on a continuous file of records received from the States. Rates per 100,000 live births. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Rates for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on birth and death certificates; see Technical notes]

| Rank ¹ | Cause of death and race (Based on the Ninth Revision, International Classification of Diseases, 1975) | Number | Rate |
|------------------------|---|--------|---------|
| All races ² | | | |
| ... | All causes | 27,899 | 714.8 |
| 1 | Congenital anomalies (740-759) | 6,231 | 159.6 |
| 2 | Disorders relating to short gestation and unspecified low birthweight (765) | 3,677 | 94.2 |
| 3 | Sudden infant death syndrome (798.0) | 2,794 | 71.6 |
| 4 | Respiratory distress syndrome (769) | 1,299 | 33.3 |
| 5 | Newborn affected by maternal complications of pregnancy (761) | 1,266 | 32.4 |
| 6 | Newborn affected by complications of placenta, cord, and membranes (762) | 941 | 24.1 |
| 7 | Infections specific to the perinatal period (771) | 796 | 20.4 |
| 8 | Accidents and adverse effects (E800-E949) | 766 | 19.6 |
| 9 | Pneumonia and influenza (480-487) | 427 | 10.9 |
| 10 | Intrauterine hypoxia and birth asphyxia (768) | 413 | 10.6 |
| ... | All other causes (Residual) | 9,289 | 238.0 |
| White | | | |
| ... | All causes | 18,665 | 603.2 |
| 1 | Congenital anomalies (740-759) | 4,832 | 156.1 |
| 2 | Disorders relating to short gestation and unspecified low birthweight (765) | 2,051 | 66.3 |
| 3 | Sudden infant death syndrome (798.0) | 1,838 | 59.4 |
| 4 | Respiratory distress syndrome (769) | 844 | 27.3 |
| 5 | Newborn affected by maternal complications of pregnancy (761) | 839 | 27.1 |
| 6 | Newborn affected by complications of placenta, cord, and membranes (762) | 630 | 20.4 |
| 7 | Accidents and adverse effects (E800-E949) | 520 | 16.8 |
| 8 | Infections specific to the perinatal period (771) | 510 | 16.5 |
| 9 | Intrauterine hypoxia and birth asphyxia (768) | 310 | 10.0 |
| 10 | Pneumonia and influenza (480-487) | 278 | 9.0 |
| ... | All other causes (Residual) | 6,013 | 194.3 |
| Black | | | |
| ... | All causes | 8,244 | 1,369.4 |
| 1 | Disorders relating to short gestation and unspecified low birthweight (765) | 1,526 | 253.5 |
| 2 | Congenital anomalies (740-759) | 1,144 | 190.0 |
| 3 | Sudden infant death syndrome (798.0) | 864 | 143.5 |
| 4 | Respiratory distress syndrome (769) | 419 | 69.6 |
| 5 | Newborn affected by maternal complications of pregnancy (761) | 400 | 66.4 |
| 6 | Newborn affected by complications of placenta, cord, and membranes (762) | 276 | 45.8 |
| 7 | Infections specific to the perinatal period (771) | 260 | 43.2 |
| 8 | Accidents and adverse effects (E800-E949) | 211 | 35.0 |
| 9 | Pneumonia and influenza (480-487) | 133 | 22.1 |
| 10 | Homicide (E960-E969) | 112 | 18.6 |
| ... | All other causes (Residual) | 2,899 | 481.6 |
| Hispanic ³ | | | |
| ... | All causes | 4,107 | 581.0 |
| 1 | Congenital anomalies (740-759) | 1,114 | 157.6 |
| 2 | Disorders relating to short gestation and unspecified low birthweight (765) | 488 | 69.0 |
| 3 | Sudden infant death syndrome (798.0) | 289 | 40.9 |
| 4 | Respiratory distress syndrome (769) | 164 | 23.2 |
| 5 | Newborn affected by maternal complications of pregnancy (761) | 152 | 21.5 |
| 6 | Accidents and adverse effects (E800-E949) | 115 | 16.3 |
| 7 | Infections specific to the perinatal period (771) | 112 | 15.8 |
| 8 | Newborn affected by complications of placenta, cord, and membranes (762) | 100 | 14.1 |
| 9 | Pneumonia and influenza (480-487) | 79 | 11.2 |
| 10 | Homicide (E960-E969) | 50 | 7.1 |
| ... | All other causes (Residual) | 1,444 | 204.3 |

¹ Rank based on number of deaths; see Technical notes.

² Includes races other than white and black.

³ Race and Hispanic origin are reported separately on the death certificate. Data for all persons who report Hispanic origin are shown here. Data for Hispanic persons are also included above in the data for each race group, according to the decedent's reported race; see Technical notes. Hispanic origin data exclude Oklahoma; see Technical notes.

NOTE: Data are subject to sampling and/or random variation. For information on the relative standard errors of the data and further discussion, see Technical notes.

Technical notes

Nature and sources of data

The preliminary data for July 1996–June 1997 are based on substantial samples of vital records. The data for the 12 months ending with June 1997 are based on a continuous receipt of statistical records through December 1, 1997, by the National Center for Health Statistics (NCHS). NCHS received the data from the States' vital registration systems through the Vital Statistics Cooperative Program. In this report, U.S. totals include only events occurring within the 50 States and the District of Columbia. Data for Puerto Rico, the Virgin Islands, and Guam are included in tables showing data by State, but are not included in U.S. totals.

For the 12 months ending with June 1997, individual records of births, infant deaths (deaths under 1 year of age), and deaths of persons aged 1 year and over are weighted to independent counts of vital events received in each State. These State-specific counts serve as control totals and are the basis for the record weights in the preliminary file. If the number of records in the preliminary file is greater than the count received from the State, the State-specific number of records in the preliminary file is used instead and the weight is set at 1.0.

Each birth record has one weight specific to the State where the birth occurred. For deaths, two separate files are processed: the medical, or cause-of-death file contains records that include demographic and medical information, and is used to generate tables showing cause of death. The demographic file includes records in the medical file as well as additional records that contain demographic information only, and is used to generate tables showing mortality by demographic characteristics. A State-specific weight is computed for each file, by dividing the State control total by the number of records in the preliminary sample. Because there are two separate files, with two separate sets of weights, there will be slight inconsistencies between the demographic and medical tables. [Table I](#) shows the percent completeness of the preliminary file for each event by place of occurrence. The percent completeness is obtained by dividing the number of records in the preliminary file by the control total and multiplying by 100. Although data by place of occurrence are used to compute the weights, all data in this report are tabulated by place of residence.

For selected variables in the natality and mortality files, unknown or not-stated values are imputed. The percent not stated in the natality files was less than 1 percent for birth-weight and method of delivery and 2.5 percent for month prenatal care began. The percent not stated in the mortality files was less than 1 percent for all variables discussed in this report. Detailed information on reporting completeness and imputation procedures may be found in the technical appendixes of the annual volumes, *Vital Statistics of the United States*, 1992 Volume I, Natality (8), and *Vital Statistics of the United States*, 1992 Volume II, Mortality, Part A (9).

Natality

Race and Hispanic origin are reported independently on the birth certificate. In this report, births to Hispanic women are also included in figures for births by race—white, black, American Indian, and Asian or Pacific Islander—according to the mother's race as reported on the birth certificate.

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994–96, birth certificates in 45 States and the District of Columbia included a question about the mother's marital status. The mother's marital status was inferred in five States (California, Connecticut, Michigan, Nevada, and New York) by comparing the parents' and child's surnames and other information concerning the father. Beginning January 1, 1997, the marital status of women giving birth in California is determined by a direct question on the birth certificate, "Mother married at any time during this pregnancy?"—similar to the question asked in most other States.

A birth is inferred as nonmarital if any of these factors, listed in priority-of-use order, is present: A paternity acknowledgment was received, the father's name is missing, or the father's and mother's current surnames are different. In addition, criteria that are particularly applicable for a given State are also applied as necessary. For example, prior to 1997, special procedures were used in California to compare the parents' surnames when they were hyphenated if the parents were born in countries where naming practices can identify the parents' marital status, including Asian and Hispanic mothers.

Although Nevada's birth certificate does not include a direct question on mother's marital status, this information is being obtained from the electronic birth registration process.

The birth rates for unmarried women in this report are estimated on the basis of population distributions by marital status provided by the U.S. Bureau of the Census, as of March 1996 and 1997, applied to the national population estimates as of January 1 (10,11). The birth rates shown here thus differ from those regularly published by NCHS, which are based on populations estimated by 3-year averages of the marital status distributions, rather than a single year as shown here (12). These population estimates for a single year are not an adequate basis for computing comparable age-specific birth rates.

Mortality

The mortality statistics in this report were compiled in accordance with the World Health Organization (WHO) regulations that specify that member nations classify and code causes of death in accordance with the current revision of the *International Statistical Classification of Diseases, Injuries, and Causes of Death*. The current revision in use is the Ninth Revision (ICD-9) (13). Causes of death for data presented in this publication were coded by procedures described in annual issues of the NCHS *Instruction Manual Part 2a* (14). Beginning with data for 1987, NCHS introduced categories

Table I. Total count of records and percent completeness of preliminary files of live births, infant deaths, and deaths 1 year and over: United States, each State, Puerto Rico, Virgin Islands, and Guam, preliminary data for 12 months ending June 1997

[By place of occurrence]

| Area | Live births | | Infant deaths (under 1 year) | | | Deaths 1 year and over | | |
|--------------------------------------|------------------|----------------------|------------------------------|----------------------|--------------|------------------------|----------------------|--------------|
| | Count of records | Percent completeness | Count of records | Percent completeness | | Count of records | Percent completeness | |
| | | | | Demographic file | Medical file | | Demographic file | Medical file |
| United States ¹ | 3,906,662 | 98.3 | 27,967 | 93.8 | 89.3 | 2,310,188 | 95.3 | 91.4 |
| Alabama | 59,937 | 100.0 | 578 | 98.6 | 98.4 | 42,017 | 99.3 | 98.9 |
| Alaska | 9,887 | 100.0 | 60 | 100.0 | 98.3 | 2,438 | 98.8 | 96.5 |
| Arizona | 74,313 | 100.0 | 742 | 74.8 | 57.5 | 37,238 | 100.0 | 76.9 |
| Arkansas | 35,489 | 100.0 | 296 | 100.0 | 90.2 | 26,369 | 100.0 | 97.1 |
| California | 532,873 | 99.8 | 2,996 | 66.0 | 66.0 | 217,020 | 68.7 | 68.7 |
| Colorado | 56,597 | 100.0 | 419 | 100.0 | 99.8 | 26,142 | 98.8 | 98.8 |
| Connecticut | 45,720 | 95.2 | 303 | 97.0 | 91.4 | 30,414 | 97.9 | 95.9 |
| Delaware | 10,754 | 99.2 | 76 | 93.4 | 93.4 | 6,517 | 99.7 | 99.7 |
| District of Columbia | 14,950 | 100.0 | 229 | 95.2 | 92.1 | 7,714 | 97.9 | 97.5 |
| Florida | 192,728 | 99.9 | 1,365 | 100.0 | 99.9 | 152,915 | 99.5 | 99.5 |
| Georgia | 117,655 | 99.7 | 981 | 100.0 | 83.5 | 59,842 | 96.9 | 85.2 |
| Hawaii | 17,833 | 100.0 | 99 | 100.0 | 72.7 | 7,998 | 99.1 | 75.4 |
| Idaho | 18,214 | 100.0 | 120 | 100.0 | 100.0 | 8,753 | 97.9 | 97.9 |
| Illinois | 180,158 | 99.7 | 1,459 | 100.0 | 95.3 | 101,954 | 98.6 | 96.5 |
| Indiana | 80,885 | 81.7 | 548 | 88.9 | 88.9 | 53,122 | 76.6 | 76.6 |
| Iowa | 37,230 | 100.0 | 209 | 100.0 | 100.0 | 27,482 | 100.0 | 100.0 |
| Kansas | 35,829 | 100.0 | 257 | 95.7 | 95.7 | 23,449 | 98.8 | 98.8 |
| Kentucky | 51,642 | 99.4 | 389 | 92.5 | 86.4 | 37,595 | 98.6 | 95.5 |
| Louisiana | 65,741 | 99.7 | 594 | 95.8 | 95.8 | 39,407 | 97.6 | 97.6 |
| Maine | 13,532 | 100.0 | 68 | 100.0 | 85.3 | 11,783 | 100.0 | 79.4 |
| Maryland | 67,260 | 100.0 | 498 | 100.0 | 100.0 | 41,578 | 100.0 | 100.0 |
| Massachusetts | 82,930 | 98.0 | 435 | 89.0 | 82.5 | 57,668 | 91.9 | 87.8 |
| Michigan | 132,055 | 100.0 | 1,089 | 100.0 | 97.6 | 82,577 | 98.3 | 97.0 |
| Minnesota | 64,540 | 99.2 | 440 | 86.6 | 86.6 | 37,442 | 97.0 | 96.9 |
| Mississippi | 40,540 | 100.0 | 392 | 98.0 | 96.7 | 25,844 | 99.7 | 99.5 |
| Missouri | 75,790 | 100.0 | 737 | 96.9 | 74.8 | 56,552 | 97.8 | 74.2 |
| Montana | 10,802 | 100.0 | 70 | 100.0 | 91.4 | 7,727 | 100.0 | 91.0 |
| Nebraska | 23,791 | 99.2 | 223 | 100.0 | 100.0 | 15,634 | 98.3 | 98.3 |
| Nevada | 24,483 | 91.6 | 133 | 94.7 | 94.7 | 13,556 | 85.9 | 85.8 |
| New Hampshire | 13,892 | 100.0 | 59 | 81.4 | 66.1 | 9,454 | 99.4 | 73.0 |
| New Jersey | 113,407 | 98.0 | 718 | 97.1 | 75.5 | 71,102 | 100.0 | 75.9 |
| New Mexico | 26,919 | 98.8 | 172 | 99.4 | 99.4 | 12,502 | 99.1 | 98.9 |
| New York | 266,798 | 96.4 | 1,773 | 99.3 | 97.7 | 161,822 | 98.8 | 98.3 |
| New York excluding New York City ... | 140,645 | 93.8 | 853 | 100.0 | 99.9 | 96,562 | 99.1 | 99.0 |
| New York City | 126,153 | 99.2 | 920 | 98.7 | 95.7 | 65,260 | 98.3 | 97.2 |
| North Carolina | 108,739 | 97.9 | 1,020 | 95.9 | 93.7 | 66,270 | 99.1 | 98.1 |
| North Dakota | 9,700 | 99.1 | 58 | 94.8 | 93.1 | 6,540 | 97.8 | 96.6 |
| Ohio | 153,079 | 84.0 | 1,151 | 100.0 | 91.6 | 104,425 | 96.6 | 88.8 |
| Oklahoma | 45,729 | 100.0 | 394 | 90.6 | 90.6 | 32,235 | 98.7 | 98.7 |
| Oregon | 45,741 | 99.4 | 295 | 93.6 | 93.6 | 29,512 | 98.4 | 98.4 |
| Pennsylvania | 146,071 | 99.8 | 1,142 | 96.5 | 96.5 | 132,111 | 98.6 | 98.6 |
| Rhode Island | 13,398 | 100.0 | 85 | 100.0 | 100.0 | 10,011 | 99.3 | 99.3 |
| South Carolina | 49,576 | 100.0 | 413 | 100.0 | 100.0 | 32,549 | 100.0 | 100.0 |
| South Dakota | 10,796 | 98.3 | 58 | 100.0 | 100.0 | 6,941 | 99.2 | 99.2 |
| Tennessee | 79,264 | 99.4 | 744 | 100.0 | 85.9 | 54,601 | 99.7 | 90.4 |
| Texas | 336,574 | 100.0 | 2,082 | 100.0 | 100.0 | 140,121 | 100.0 | 100.0 |
| Utah | 44,752 | 96.9 | 265 | 93.6 | 93.6 | 11,696 | 97.7 | 97.7 |
| Vermont | 6,399 | 100.0 | 43 | 86.0 | 86.0 | 5,045 | 99.0 | 98.9 |
| Virginia | 90,466 | 100.0 | 616 | 100.0 | 100.0 | 53,078 | 100.0 | 99.9 |
| Washington | 77,111 | 99.4 | 437 | 100.0 | 100.0 | 41,785 | 99.4 | 99.4 |
| West Virginia | 22,266 | 97.8 | 163 | 96.9 | 73.0 | 20,622 | 99.4 | 80.2 |
| Wisconsin | 65,861 | 99.9 | 454 | 97.8 | 78.4 | 45,433 | 98.3 | 79.5 |
| Wyoming | 5,966 | 98.7 | 20 | 100.0 | 100.0 | 3,586 | 99.3 | 99.3 |
| Puerto Rico | 64,541 | 98.6 | 687 | 100.0 | 88.1 | 29,738 | 98.1 | 87.8 |
| Virgin Islands | 2,183 | 100.0 | 26 | 73.1 | 73.1 | 585 | 99.8 | 99.5 |
| Guam | 4,381 | 99.1 | 33 | 90.9 | 90.9 | 629 | 94.6 | 94.4 |

¹ Excludes data for Puerto Rico, Virgin Islands, and Guam.

NOTE: Percent completeness = $\frac{\text{Number of records in preliminary file} \times 100}{\text{Count of records}}$

*042–*044 for classifying and coding Human immunodeficiency virus (HIV) infection. The asterisks indicate that these codes are not part of ICD-9.

Cause of death is sometimes not available when preliminary data are sent to NCHS, but is available later when final data are processed. As a result, estimates based on the preliminary mortality file for certain causes may be underestimated. Causes that are reported unknown in the preliminary data are coded to Other unknown and unspecified cause (ICD-9, 799.9), a subcategory of Symptoms, signs, and ill-defined conditions (ICD-9, 780–799). In the final data, some of these are reallocated to specified causes after further information is provided. The preliminary cause-of-death data in this report have not been adjusted to correct for this type of bias, but bias correction factors (BCF) may be used to interpret the impact on Human immunodeficiency virus infection, Diseases of heart, Accidents and adverse effects, Suicide, Homicide and legal intervention, All other external causes, and Sudden infant death syndrome (table II). Because in the preliminary data some deaths for these causes are coded as Symptoms, signs, and ill-defined conditions (ICD-9, 780–799), a BCF for this category is included as well. These BCF's in table II are determined by examining the change in reporting from causes that are assigned to Other unknown and unspecified cause (ICD-9, 799.9) in the provisional data to specified causes in the final data. Comparisons of the 10-percent Current Mortality Sample data to the final data for 1990–96 are used.

Cause-of-death ranking is based on the number of deaths classified according to the List of 72 Selected Causes of Death and the categories for HIV infection and for Alzheimer's disease. HIV infection was added to the list of rankable causes effective with the data year 1987, and Alzheimer's disease was added with final mortality data for 1994. For infant deaths, ranking is based on the List of 61 Selected Causes of Infant Death and HIV infection.

Mortality data on the Hispanic-origin population are based on deaths in all States except Oklahoma, which did not include an item to identify Hispanic or ethnic origin on its death certificates. For the 12 months ending June 1997 and June 1996, death rates for Hispanic origin (table 10) include deaths to persons of Hispanic origin for the 49 States and the

District of Columbia in the numerator and include the Hispanic population for the entire United States in the denominator, because population estimates for Hispanic origin were not available by State. In 1990 the 49 States and the District of Columbia accounted for 99.6 percent of the Hispanic population in the United States (15). As a result, death rates for Hispanic origin for the 12 months ending June 1997 and 1996 may be understated by about 0.4 percent. In addition, results of a recent study comparing population survey and death certificates suggest net underreporting of Hispanic-origin deaths in vital statistics of about 7 percent because of incomplete reporting of Hispanic origin (7). Death rates for American Indian and Asian or Pacific Islander persons should also be interpreted with caution because of inconsistencies in reporting race on the death certificate as compared to race on censuses, surveys, and birth certificates.

Infant mortality rates are the most commonly used index for measuring the risk of dying during the first year of life. The rates for this report are calculated by dividing the number of infant deaths that occurred in a 12-month period by the preliminary number of live births for the same period and are presented as rates per 1,000 or per 100,000 live births. Infant mortality rates for Hispanic origin (tables 14 and 18) exclude Oklahoma in the numerator and denominator. In contrast to infant mortality rates based on live births, infant death rates are based on the estimated population under 1 year of age (table 10). Infant death rates that appear in tabulations of age-specific death rates are calculated by dividing the number of infant deaths in the 12-month period by the estimated population of persons under 1 year of age on January 1, 1997 (the midpoint for this period), and are presented as rates per 100,000 population in this age group. Because of differences in the denominators, infant death rates may differ from infant mortality rates.

Information on deaths attributed to injury at work is derived from a separate item on the death certificate that asks the medical certifier whether the death resulted from an injury sustained at work. The item is on the death certificate of all States.

U.S. abridged life tables are constructed by reference to a standard life table (16). For explanation of the columns of the

Table II. Bias correction factors for selected causes of death: United States, preliminary data for 12 months ending June 1997

| Cause | Bias correction factor | Preliminary Age-adjusted rate | Preliminary Infant mortality rate | Corrected preliminary date | | | |
|---|------------------------|-------------------------------|-----------------------------------|----------------------------|------------|-------------------|-----------------------|
| | | | | Number | Death rate | Age-adjusted rate | Infant mortality rate |
| Human immunodeficiency virus infection | 1.0101 | 8.0 | ... | 22,796 | 8.6 | 8.1 | ... |
| Diseases of heart | 1.0022 | 132.9 | ... | 736,978 | 276.7 | 133.2 | ... |
| Symptoms, signs, and ill-defined causes | 0.8780 | 8.2 | ... | 27,178 | 10.2 | 7.2 | ... |
| Accidents and adverse effects | 1.0137 | 29.6 | ... | 94,875 | 35.6 | 30.0 | ... |
| Motor vehicle accidents | 1.0009 | 16.0 | ... | 43,453 | 16.3 | 16.0 | ... |
| All other accidents and adverse effects | 1.0249 | 13.6 | ... | 51,431 | 19.3 | 13.9 | ... |
| Suicide | 1.0059 | 10.5 | ... | 30,426 | 11.4 | 10.6 | ... |
| Homicide and legal intervention | 1.0081 | 8.1 | ... | 20,163 | 7.6 | 8.2 | ... |
| All other external causes | 1.1001 | 1.1 | ... | 3,483 | 1.3 | 1.2 | ... |
| Sudden infant death syndrome | 1.0063 | ... | 71.4 | 2,812 | ... | ... | 71.8 |

... Category not applicable.

life table and for references to life table construction, see the annual report, *Vital Statistics of the United States*, Volume II, Mortality Part A (9).

Computing rates and percents

Rates are on an annual basis and, except for infant mortality rates, are per 1,000 or per 100,000 estimated population residing in the specified area as of January 1, 1997, and January 1, 1996, which were furnished by the U.S. Bureau of the Census (10,11). Infant mortality rates are per 1,000 or per 100,000 live births. Rates by State are computed on the basis of populations as of July 1, 1996, and July 1, 1995 (17,18).

Age-adjusted rates are used to compare relative mortality risks among groups and over time. However, they should be viewed as relative indexes rather than as actual measures of mortality risk. They were computed by the direct method, that is, by applying age-specific death rates to the U.S. standard population (relative age distribution of 1940 enumerated population of the United States) using the following age groups:

| Age | Number | Weights (w_i) |
|-----------------------------|-----------|-------------------|
| All ages | 1,000,000 | 1.000000 |
| Under 1 year | 15,343 | 0.015343 |
| 1-4 years | 64,718 | 0.064718 |
| 5-14 years | 170,355 | 0.170355 |
| 15-24 years | 181,677 | 0.181677 |
| 25-34 years | 162,066 | 0.162066 |
| 35-44 years | 139,237 | 0.139237 |
| 45-54 years | 117,811 | 0.117811 |
| 55-64 years | 80,294 | 0.080294 |
| 65-74 years | 48,426 | 0.048426 |
| 75-84 years | 17,303 | 0.017303 |
| 85 years and over | 2,770 | 0.002770 |

Age-adjusted death rates for Puerto Rico, the Virgin Islands, and Guam were computed using the following age groups:

| Age | Number | Weights (w_i) |
|-----------------------------|-----------|-------------------|
| All ages | 1,000,000 | 1.000000 |
| Under 1 year | 15,343 | 0.015343 |
| 1-4 years | 64,718 | 0.064718 |
| 5-14 years | 170,355 | 0.170355 |
| 15-24 years | 181,677 | 0.181677 |
| 25-34 years | 162,066 | 0.162066 |
| 35-44 years | 139,237 | 0.139237 |
| 45-54 years | 117,811 | 0.117811 |
| 55-64 years | 80,294 | 0.080294 |
| 65-74 years | 48,426 | 0.048426 |
| 75 years and over | 20,073 | 0.020073 |

For calculating birth rates, age and race of mother are imputed if they are not stated (0.03 percent and 0.76 percent). In computing birth rates by live-birth order, births with live-birth order not stated are distributed in proportion to stated data. Births with marital status not reported (0.04 percent) are included with births to married mothers. Percents were computed using only events for which the characteristic is reported. The "Not stated" category is subtracted from the total before the percent is computed for birthweight, prenatal care, and method of delivery. Birth and death rates for the Hispanic population are based only on events to persons reported as

Hispanic. Hispanic origin is not imputed if it is not reported. For calculating death rates, deaths with age not stated are not distributed.

An asterisk indicates that the figure does not meet standards of reliability or precision. In this report three sets of criteria determine whether a figure meets these standards.

- The State-specific sample is complete enough to provide reliable estimates. For example, a criterion of at least 75 percent of a State's records for the 12-month period is used as a basis for providing State-specific estimates. Due to processing problems, the California mortality file contained only 68.7 percent of all records (see [table I](#)) for the period ending June 1997. Data for California are included in U.S. totals, but are not shown separately (see [table 13](#)).
- Reporting for any particular variable is at least 80 percent complete. In this report no data were suppressed based on this criterion.
- A rate or percent is based on at least 20 births or deaths in the numerator or denominator.

Rates based on fewer than 20 births or deaths have a relative standard error (RSE) of about 23 percent or more and, therefore, are considered highly variable. For age-adjusted death rates, this criterion is applied to the sum of the age-specific deaths. However, some birth and death rates (based on data files that are less than 100 percent complete and based on 20-31 births or deaths) may have RSE's of 23 percent or more and are shown instead of asterisks. As a result, caution should be exercised in analyzing rates based on 20-31 events. Additional information on random variation in numbers of events, rates, ratios, and percents may be found in "Reliability of estimates."

Reliability of estimates

Because the preliminary estimates of births and deaths in this report are based on files that may not be complete, they are subject to sampling variability. The notion of the sample is reflected in the record weights that are used to adjust record counts to independent control totals. The lack of completeness of the vital statistics files is due to delays in receiving and processing the live birth and death records.

In addition, the natality and mortality files are subject to nonsampling errors or biases. Records that were delayed and were not included in this report are assumed to have the same characteristics as the records that were included in this report. However, this assumption may be violated in the relatively small number of records where cause of death is pending investigation (for example, homicides, suicides, accidents, HIV, and SIDS; see discussion of the bias in "Mortality") or in the causes of death that were rejected by the automated mortality coding systems for manual processing. Seasonal bias may occur because file completeness is greater during the early part than during the later part of the 12-month period for which the data are processed and tabulated.

Even if the number of vital events in this report were 100 percent complete and not subject to sampling variability, it may be affected by random variation. Thus, when the number of events is small and the probability of such an event is small, considerable caution must be observed in interpreting the data. Such infrequent events may be assumed to follow a Poisson probability distribution. The first column of [table II](#) shows the estimated RSE's of a file which is nearly 100 percent complete. The estimated RSE's of the July 1995–June 1996 data, the preliminary July 1996–June 1997 counts, and the preliminary July 1996–June 1997 data (based on nearly 100 percent of a file) are shown in the first column of [table III](#).

Data based on a sample, that is, where the file is less than 100 percent complete, are affected by sampling variation as well as by random variation. The estimated RSE's in columns 2–6 of [table III](#) for various levels of file completeness are measures of the sampling errors and the random errors of the estimates.

The estimated RSE's in [table III](#) were computed using this formula:

$$RSE = 100 \sqrt{\frac{1}{\bar{X}} + \frac{(1-f)(N-X)}{fX(N-1/f)}}$$

where

f = the sampling fraction or the percent of file completeness/100 from [table I](#). For mortality data based on deaths under 1 year of age, use the f for “infant deaths” for either the demographic or medical file as appropriate. For mortality data based on all ages combined or any age group that is 1 year and over, use the f for “deaths 1 year of age and over” for either the demographic or medical files as appropriate.

X = the estimated number of live births, infant deaths, or deaths.

N = the total count of live births, infant deaths, or deaths for the United States, or any State. (NOTE: The RSE's in [table III](#) are based on $N = 4,000,000$. If N is smaller, the RSE's may be slightly smaller than those shown.)

RSE's may be used to compute 95-percent confidence intervals for the number of events (X), for a rate (R), or for a percent (P) and to compute statistical tests concerning the equality of two rates (R_1 and R_2) or two percents (P_1 and P_2).

For the number of live births or deaths, the 95-percent confidence interval may be computed as follows:

$$\text{Lower limit: } X_1 - 1.96 \cdot X_1 \cdot \frac{RSE(X_1)}{100}$$

$$\text{Upper limit: } X_1 + 1.96 \cdot X_1 \cdot \frac{RSE(X_1)}{100}$$

As a hypothetical example, assume the number of deaths, X_1 , is 70 from a file with 80 percent completeness. Then

$$\text{Lower limit: } 70 - 1.96 \cdot 70 \cdot \frac{13.4}{100} = 51.6$$

$$\text{Upper limit: } 70 + 1.96 \cdot 70 \cdot \frac{13.4}{100} = 88.4$$

This means that the chances are 95 times out of 100 that the confidence interval (51.6–88.4) will cover the “true” number of deaths.

For rates based on population estimates in the denominator, the 95-percent confidence interval may be computed as follows:

$$\text{Lower limit: } R_1 - 1.96 \cdot R_1 \cdot \frac{RSE(R_1)}{100}$$

$$\text{Upper limit: } R_1 + 1.96 \cdot R_1 \cdot \frac{RSE(R_1)}{100}$$

As a hypothetical example, assume the death rate, R_1 , is 20.0, which is based on 70 deaths from a file with 80 percent completeness. Then

$$\text{Lower limit: } 20.0 - 1.96 \cdot 20.0 \cdot \frac{13.4}{100} = 14.7$$

$$\text{Upper limit: } 20.0 + 1.96 \cdot 20.0 \cdot \frac{13.4}{100} = 25.3$$

This means that the chances are 95 times out of 100 that the confidence interval (14.7–25.3) will cover the “true” rate.

For age-adjusted death rates, R' , the 95-percent confidence interval may be computed as follows:

$$\text{Lower limit: } R' - 1.96 \cdot R' \cdot \frac{RSE(R')}{100}$$

$$\text{Upper limit: } R' + 1.96 \cdot R' \cdot \frac{RSE(R')}{100}$$

where

$$RSE(R') = 100 \sqrt{\frac{\sum_i [w_i^2 R_i^2 \left\{ \frac{1}{X_i} + \frac{(1-f_i)(N_i - X_i)}{f_i X_i (N_i - 1/f_i)} \right\}]}{R'}}$$

where

i = each age group where $i = 1$ for infant deaths, $i = 2$ for 1–4 years, $i = 3$ for 5–14 years, . . . and $i = 11$ for 85 years and over.

R_i = age-specific rate for the i th age group.

w_i = i th age-specific U.S. standard million population such that $\sum w_i = 1.000000$ (see “[Computing rates and percents](#)”).

X_i = the estimated number of deaths for the i th age group.

N_i = the total count of deaths from [table I](#) for each i th age group (for infant deaths, use the count of records as shown; for all age groups 1–4 through 85 years and over, use the count of records as shown for deaths 1 year and over).

f_i = percent of file completeness/100 from [table I](#) (for infant deaths, use the percent completeness for the demographic or medical file as appropriate for deaths under age 1 year; for all age groups 1–4 through 85

Table III. Relative standard errors for preliminary number of live births or deaths by percent of file completeness

[Relative standard errors are expressed as a percent of the estimate]

| Estimated number of live births or deaths | Percent of file completeness | | | | | |
|---|-----------------------------------|-------|-------|-------|-------|-------|
| | 100 | 95 | 90 | 80 | 70 | 60 |
| | Relative standard error (percent) | | | | | |
| 1.. | 100.0 | 102.6 | 105.4 | 111.8 | 119.5 | 129.1 |
| 5.. | 44.7 | 45.9 | 47.1 | 50.0 | 53.5 | 57.7 |
| 10.. | 31.6 | 32.4 | 33.3 | 35.4 | 37.8 | 40.8 |
| 20.. | 22.4 | 22.9 | 23.6 | 25.0 | 26.7 | 28.9 |
| 30.. | 18.3 | 18.7 | 19.2 | 20.4 | 21.8 | 23.6 |
| 40.. | 15.8 | 16.2 | 16.7 | 17.7 | 18.9 | 20.4 |
| 50.. | 14.1 | 14.5 | 14.9 | 15.8 | 16.9 | 18.3 |
| 60.. | 12.9 | 13.2 | 13.6 | 14.4 | 15.4 | 16.7 |
| 70.. | 12.0 | 12.3 | 12.6 | 13.4 | 14.3 | 15.4 |
| 80.. | 11.2 | 11.5 | 11.8 | 12.5 | 13.4 | 14.4 |
| 90.. | 10.5 | 10.8 | 11.1 | 11.8 | 12.6 | 13.6 |
| 100.. | 10.0 | 10.3 | 10.5 | 11.2 | 12.0 | 12.9 |
| 200.. | 7.1 | 7.3 | 7.5 | 7.9 | 8.5 | 9.1 |
| 300.. | 5.8 | 5.9 | 6.1 | 6.5 | 6.9 | 7.5 |
| 400.. | 5.0 | 5.1 | 5.3 | 5.6 | 6.0 | 6.5 |
| 500.. | 4.5 | 4.6 | 4.7 | 5.0 | 5.3 | 5.8 |
| 600.. | 4.1 | 4.2 | 4.3 | 4.6 | 4.9 | 5.3 |
| 700.. | 3.8 | 3.9 | 4.0 | 4.2 | 4.5 | 4.9 |
| 800.. | 3.5 | 3.6 | 3.7 | 4.0 | 4.2 | 4.6 |
| 900.. | 3.3 | 3.4 | 3.5 | 3.7 | 4.0 | 4.3 |
| 1,000.. | 3.2 | 3.2 | 3.3 | 3.5 | 3.8 | 4.1 |
| 2,000.. | 2.2 | 2.3 | 2.4 | 2.5 | 2.7 | 2.9 |
| 5,000.. | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 |
| 10,000.. | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 |
| 20,000.. | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 |
| 50,000.. | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 |
| 100,000.. | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |
| 200,000.. | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 500,000.. | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| 1,000,000.. | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2,000,000.. | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4,000,000.. | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

years and over, use the percent completeness for the demographic or medical file as appropriate for deaths at ages 1 year and over).

For testing the equality of two rates, R_1 and R_2 , the following z-test may be used to define a significance test statistic:

$$z = \frac{R_1 - R_2}{\sqrt{R_1^2 (RSE(R_1)/100)^2 + R_2^2 (RSE(R_2)/100)^2}}$$

The two-tailed 0.95 critical value for a z statistic is 1.96. Therefore, if $|z| \geq 1.96$, the difference is significant at the 0.05 level. If $|z| < 1.96$, then the difference would be considered not statistically significant at the 0.05 level.

As a hypothetical example, assume R_1 is the same as the above example for the current 12-month period and that R_2 , 15.0, is based on 50 deaths occurring in the prior 12-month period (which implies that the file is approximately 100 percent complete for R_2). The z-test may be determined as follows:

$$z = \frac{20.0 - 15.0}{\sqrt{(20.0)^2 (13.4/100)^2 + (15.0)^2 (14.1/100)^2}} = 1.46$$

Because $|z| < 1.96$, there is not a statistically significant difference between the two rates at the 0.05 level of significance.

For rates or percents based on denominators having random variation only or random and sampling variation, the RSE must take into account the variation in both the numerator and denominator. For example, for a rate, R_3 , based on the number of live births in the denominator, the RSE is computed as follows:

$$RSE(R_3) = 100 \sqrt{\left(\frac{RSE(D)}{100}\right)^2 + \left(\frac{RSE(B)}{100}\right)^2}$$

where

$RSE(D)$ = RSE of the number of deaths D

$RSE(B)$ = RSE of the number of births B

The 95-percent confidence interval of R_3 may be computed as follows:

$$\text{Lower limit: } R_3 - 1.96 \cdot R_3 \cdot \frac{\text{RSE}(R_3)}{100}$$

$$\text{Upper limit: } R_3 + 1.96 \cdot R_3 \cdot \frac{\text{RSE}(R_3)}{100}$$

As a hypothetical example, assume the infant mortality rate, R_3 , is 15.0, which is based on 30 infant deaths (D) from a file with 70 percent completeness and 2,000 live births (B) from a file with 80 percent completeness. Then

$$\text{RSE}(R_3) = 100 \sqrt{\left(\frac{21.8}{100}\right)^2 + \left(\frac{2.5}{100}\right)^2} = 21.9$$

$$\text{Lower limit: } 15.0 - 1.96 \cdot 15.0 \cdot \frac{21.9}{100} = 8.6$$

$$\text{Upper limit: } 15.0 + 1.96 \cdot 15.0 \cdot \frac{21.9}{100} = 21.4$$

This means that the chances are 95 times out of 100 the confidence interval (8.6–21.4) will cover the "true" rate. The same formulas are applicable to a percent (P_1) that has variation in the numerator and denominator. To compare the equality of two infant mortality rates or two percents that have variation in the numerator and denominator, the above-mentioned z -test may be used.

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National Center for Health Statistics

Director
Edward J. Sondik, Ph.D.

Deputy Director
Jack R. Anderson

Division of Vital Statistics

Director
Mary Anne Freedman

U.S. DEPARTMENT OF
HEALTH & HUMAN SERVICES

Centers for Disease Control and Prevention
National Center for Health Statistics
6525 Belcrest Road
Hyattsville, Maryland 20782-2003

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