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Annual Summary of Births, Deaths, Marriages, and Divorces: United States, 1981

The provisional number of births and the birth rate per 1,000 population for 1981 increased over the comparable figures for 1980. This continued the upward trend that has been observed since the mid-1970's. The 1981 number of births was the largest reported since 1970 and the 1981 rate was at its highest level since 1971. Except for 1980, when the fertility rate per 1,000 women aged 15-44 years was slightly higher, the fertility rate was at its highest level since 1974.

The provisional number of deaths was slightly higher in 1981 than in 1980. However, based on 100,000 population, the death rate was slightly lower for 1981 than for 1980. The age-adjusted death rate per 100,000 population and the infant mortality rate per 1,000 live births reached new lows in 1981 while the estimated life expectancy at birth increased to an all-time high. Age-adjusted death rates declined between 1980 and 1981 for Diseases of heart and Cerebrovascular diseases (strokes), continuing the general downward trend of mortality from these causes. Rates continued to increase for Chronic obstructive pulmonary diseases and allied conditions.

For the sixth consecutive year the number of

marriages increased. The marriage rate per 1,000 population was the same for 1981 as for 1980, indicating a leveling off of the upward trend observed since 1977.

The provisional number of divorces granted in the United States increased in 1981 for the 19th consecutive year. The divorce rate per 1,000 population was slightly higher for 1981 than the provisional rate for 1980 and was the same as the final rate recorded for the peak year of 1979.

The population bases used to compute rates for 1980 and 1981 were based on the 1980 census enumeration and were the same as those used for the *Monthly Vital Statistics Report* for each month from January through December 1981. Rates for 1971-79 have been recomputed, also using population estimates based on the 1980 census enumeration. Therefore, all rates shown for 1971-80 are comparable with those shown for 1981. However, rates for 1971-80 shown here are not comparable with those published in the Annual Summary for 1980¹ and with previously published final data for 1971-79. The population bases used in this report are discussed in the Technical notes.

Vital Statistics of the United States
[Infant mortality rates per 1,000 live births; all other rates per 1,000 population]

Rate	1981 ¹	1980 ¹	1979	1978	1977	1976	1975	1974	1973
Birth.....	15.9	15.8	15.6	15.0	15.1	14.6	14.6	14.8	14.8
Death.....	8.7	8.7	8.5	8.7	8.6	8.8	8.8	9.1	9.3
Natural increase.....	7.2	7.1	7.1	6.3	6.5	5.8	5.8	5.7	5.5
Marriage.....	10.6	10.6	10.4	² 10.3	9.9	9.9	10.0	10.5	10.8
Divorce (est.).....	5.3	5.2	5.3	5.1	5.0	5.0	4.8	4.6	4.3
Infant mortality.....	11.7	12.5	13.1	13.8	14.1	15.2	16.1	16.7	17.7

¹Provisional.

²Beginning with 1978, data include nonlicensed marriages registered in California; see Technical notes.

NOTE: Rates for 1973-79 have been revised; see Technical notes.

Births

During 1981 there were an estimated 3,646,000 live births in the United States, 1.3 percent more than the 1980 provisional total of 3,598,000. The birth rate was 15.9 live births per 1,000 population, slightly higher than the provisional rate for 1980 (15.8). The fertility rate was 67.6 live births per 1,000 women aged 15-44 years, virtually unchanged from the 1980 rate of 67.7 (table A). The seasonally adjusted monthly birth and fertility rates in 1981 were higher in only 5 months (January, February, July, September, and November); the 1981 rates were lower than the 1980 rates for the other 7 months (table B).

Although 1981 marks the sixth consecutive year in which the number of births has increased, this is the smallest annual increase since 1978, when the number increased less than 1 percent. The 1981 estimate of

Table A. Live births, birth rates, and fertility rates, by month: United States, 1980 and 1981

[Rates on an annual basis. Birth rates per 1,000 population and fertility rates per 1,000 women aged 15-44 years]

Month	Number		Birth rate		Fertility rate	
	1981	1980	1981	1980	1981	1980
Total.....	3,646,000	3,598,000	15.9	15.8	67.6	67.7
January.....	302,000	278,000	15.6	14.5	66.4	62.3
February.....	288,000	272,000	16.4	15.2	70.0	65.2
March.....	295,000	302,000	15.2	15.7	64.8	67.5
April.....	279,000	284,000	14.9	15.3	63.3	65.6
May.....	296,000	295,000	15.2	15.4	64.9	65.9
June.....	292,000	293,000	15.5	15.7	66.1	67.4
July.....	327,000	313,000	16.8	16.3	71.4	69.7
August.....	328,000	330,000	16.8	17.1	71.5	73.3
September.....	319,000	311,000	16.9	16.7	71.9	71.2
October.....	321,000	325,000	16.4	16.9	69.8	72.1
November.....	291,000	286,000	15.4	15.3	65.4	65.4
December.....	307,000	308,000	15.7	16.0	66.7	68.1

Table B. Seasonally adjusted birth and fertility rates, by month: United States, 1980 and 1981

[Rates on an annual basis. Birth rates per 1,000 population and fertility rates per 1,000 women aged 15-44. For method of seasonal adjustment see Technical notes]

Month	Birth rate		Fertility rate	
	1981	1980	1981	1980
January.....	16.2	15.0	68.9	64.5
February.....	16.8	15.4	71.8	66.2
March.....	15.4	16.0	65.7	68.6
April.....	15.4	16.0	65.8	68.5
May.....	15.7	16.0	67.1	68.3
June.....	15.7	15.9	66.7	68.0
July.....	16.2	15.7	68.7	67.3
August.....	15.7	16.2	66.9	69.1
September.....	15.9	15.6	67.6	66.5
October.....	16.2	16.7	68.9	71.2
November.....	15.6	15.5	66.2	66.0
December.....	16.0	16.3	68.0	69.5

3,646,000 was the largest number observed since 1970. The birth rate was at its highest level since 1971 (17.2). Except for 1980, when the fertility rate was slightly higher, the fertility rate in 1981 was at the highest level since 1974 (67.8) (figure 1).

The modest increases in 1981 in the number of births and in the birth rate reflect the continuing but sharply reduced rate of growth in the number of women of childbearing age. Although the number of women in the childbearing ages (assumed to be 15-44 years) increased by 1.5 percent between 1980 and 1981, the largest increases (from 2.2 to 5.4 percent) were observed for women aged 30-34, 35-39, and 40-44 years, ages at which childbearing rates are low. By contrast, the number of women aged 20-24 and 25-29 years only increased from 1.3 to 2.0 percent, and there was a 3.3-percent decline in the number aged 15-19 years.

According to projections prepared by the U.S. Bureau of the Census, the number of women in the childbearing ages will continue to increase at a rate of slightly more than 1 percent annually between 1981 and 1985. Therefore, unless there are offsetting declines in the age-specific birth rates, the annual number of births will continue to rise, but very slightly. The number of women aged 15-44 years is projected to stabilize in 1986, with an anticipated average annual increase of less than half of 1 percent between 1986 and 1990.

Provisional data by place of occurrence show that the number of births increased in six geographic divisions, with declines from 1.4 to 3.2 percent in the East North Central, West North Central, and East South Central Divisions. The birth rate increased in four geographic divisions, declined in four divisions, and was unchanged in the Mountain Division. Increases and decreases in the number of births and the birth rate were fairly evenly divided among the States. The number of births increased in 27 States and declined in 23 States and the District of Columbia. The birth rate increased in 21 States and the District of Columbia, declined in 26 States, and stayed the same in 3 States (Pennsylvania, Virginia, and Arizona).

Natural increase

During 1981, 1,659,000 persons were added to the population as a result of natural increase, the excess of births over deaths. The rate of natural increase was 7.2 persons per 1,000 population compared with 7.1 for 1980. This increase was due to the increase in the birth rate.

Deaths

During 1981 an estimated 1,987,000 deaths occurred in the United States. The provisional death rate

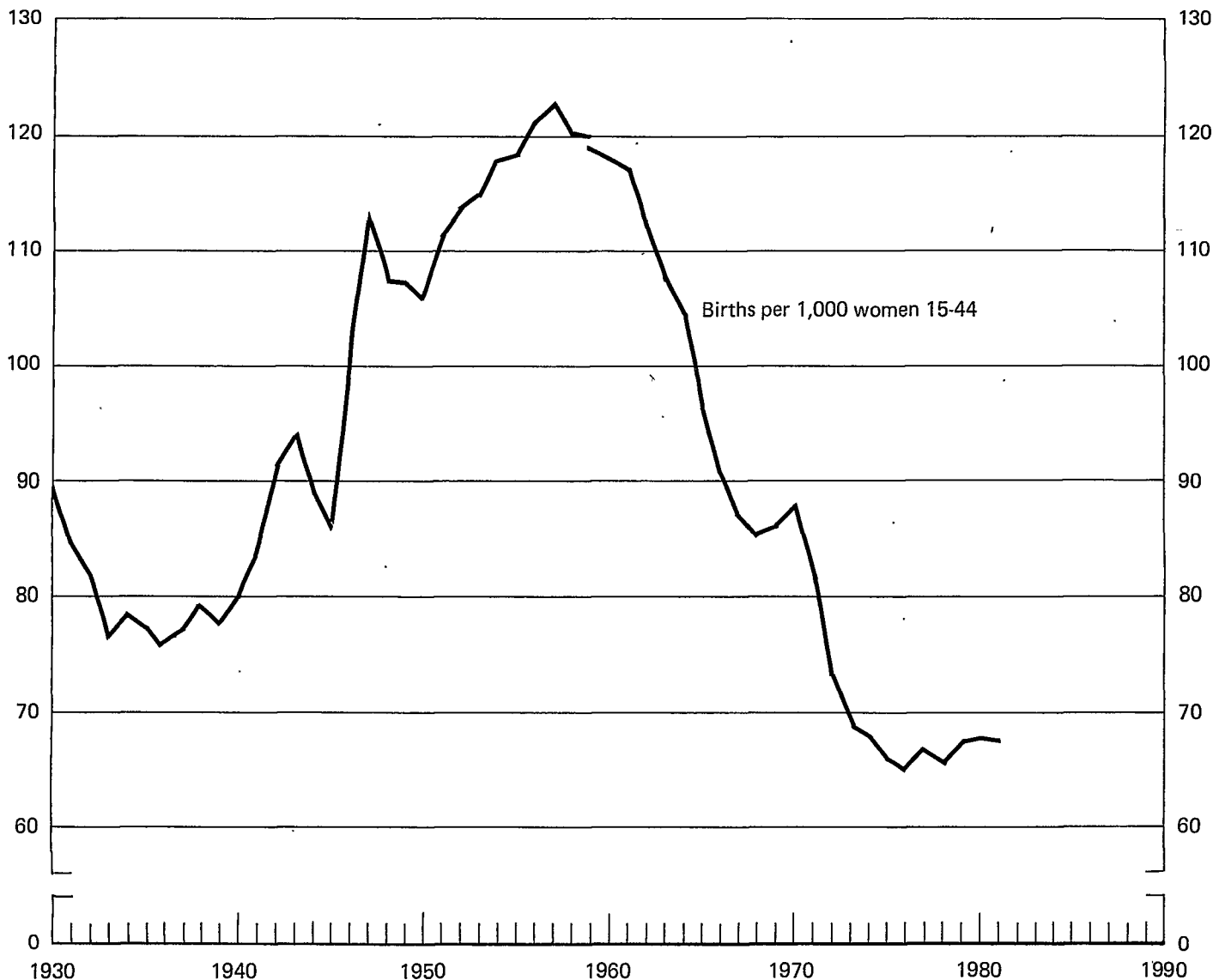


Figure 1. Fertility rates: 1930-81

was 866.4 deaths per 100,000 population, slightly lower than the provisional rate of 874.1 for 1980. Because of influenza epidemics in early and late 1980, the death rate for that year was higher than the rates for the previous 3 years, whose generally downward trend was consistent with the long-term mortality decline in the United States (figure 2).

For January and February 1981, death rates were higher than for the same months in the previous year (table C). Influenza outbreaks were reported for these months in both years.²⁻⁴ Except for September, monthly death rates for 1981 were the same as, or lower than, those for 1980. The rate was considerably lower for December 1981 than December 1980 because of the influenza epidemic that began in late 1980 and continued through the early months of 1981.

The age-adjusted death rate for 1981 reached a new low of 572.0 deaths per 100,000 population. This

represents a resumption of the long-term downward trend in age-adjusted death rates. The age-adjusted death rate in 1980 was 582.4 deaths per 100,000 population. Age-adjusted death rates control for changes and variations in the age composition of the population. Therefore, they are usually better indicators than crude death rates for showing changes in mortality risk over time, between race-sex groups within the population, and among causes of death.

Expectation of life

The estimated expectation of life at birth for the total population increased from 73.8 years in 1980 to 74.1 in 1981. The figure for 1981 represents a new high for the United States; it is the first time that life expectancy for the total population in this country has surpassed 74 years.



Figure 2. Crude and age-adjusted death rates: 1930-81

Estimated life expectancy increased between 1980 and 1981 for the race-sex groups, as follows: total males, from 70.0 to 70.3; white males, 70.7 years to 71.0; all other males, 65.3 to 66.1 years; total females, 77.7 to 77.9 years; white females, 78.3 years to 78.5 years; and all other females, 74.0 years to 74.5 years. The expectation of life at birth represents the average number of years that a group of infants would be expected to live if, throughout life, they were to experience the age-specific death rates prevailing during the year of their birth.

Death rates by race and sex, and age

Race and sex differentials.—For 1981 white females had the lowest estimated age-adjusted death rate

(403.7 deaths per 100,000 population), followed by all other females (548.0), white males (731.6), and all other males (966.5). Between 1980 and 1981, death rates decreased for each of the groups. The greatest decrease in the estimated age-adjusted death rate was for all other males (4.6 percent), followed by all other females (4.2 percent), white males (1.8 percent), and white females (0.5 percent).

Age differentials.—Between 1980 and 1981, provisional death rates decreased for all but three age groups: 5-14 years, 25-34 years, and 35-44 years. The greatest decrease between 1980 and 1981, almost 7 percent, was for the age group 15-24 years, followed by about 6 percent for the age groups under 1 year and 1-4 years (table D).

Table C. Deaths and death rates, by month: United States, 1980 and 1981

[Rates on an annual basis per 1,000 population]

Month	Number		Rate	
	1981	1980	1981	1980
Total.....	1,987,000	1,986,000	8.7	8.7
January.....	196,000	173,000	10.1	9.0
February.....	180,000	177,000	10.3	9.9
March.....	176,000	181,000	9.1	9.4
April.....	161,000	165,000	8.5	8.9
May.....	163,000	161,000	8.4	8.4
June.....	155,000	153,000	8.2	8.2
July.....	157,000	163,000	8.1	8.5
August.....	155,000	160,000	7.9	8.3
September.....	154,000	150,000	8.1	8.0
October.....	165,000	163,000	8.4	8.5
November.....	157,000	160,000	8.3	8.6
December.....	169,000	179,000	8.6	9.3

Table D. Death rates by age: United States, 1980 and 1981

[Based on a 10-percent sample of deaths. Rates per 100,000 population in specified group]

Age	1981 (est.)	1980 (est.)	Percent difference
All ages ¹	866.4	874.1	-0.9
Under 1 year.....	1,190.4	1,269.0	-6.2
1-4 years.....	60.2	64.1	-6.1
5-14 years.....	30.7	30.7	-
15-24 years.....	107.7	115.6	-6.8
25-34 years.....	137.0	135.9	0.8
35-44 years.....	227.4	225.5	0.8
45-54 years.....	578.3	591.6	-2.2
55-64 years.....	1,335.5	1,348.0	-0.9
65-74 years.....	2,937.9	2,955.3	-0.6
75-84 years.....	6,421.6	6,629.0	-3.1
85 years and over.....	15,329.8	15,655.7	-2.1

¹ Figures for age not stated included in "All ages" but not distributed among age groups.

Major causes of death

The 15 leading causes of death in 1981 accounted for nearly 90 percent of the total estimated deaths (table E). The list of the leading causes for 1981 remained unchanged from the list for 1980.

For most causes age-adjusted death rates are better indicators than crude death rates for showing changes in mortality risk over time. Such rates are used to depict trends for 13 of the 15 leading causes of death. For the other two leading causes of death, which occur mainly among infants under 1 year of age (Congenital anomalies and Certain conditions originating in the perinatal period), trends are shown in the infant mortality rate per 100,000 live births.

For five of the leading causes age-adjusted death rates were lower for 1981 than for 1980. These causes included the first and third leading causes of death in the United States, Diseases of heart and Cerebrovascular diseases. For both of these causes, the decline

Table E. Death rates for 15 leading causes of death: United States, 1981

[Based on a 10-percent sample of deaths. Rates per 100,000 population. See table 7 for category numbers of causes of death]

Rank	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Death rate	Percent of total deaths
...	All causes.....	866.4	100.0
1	Diseases of heart.....	330.6	38.2
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues...	184.3	21.3
3	Cerebrovascular diseases.....	71.7	8.3
4	Accidents and adverse effects.....	44.5	5.1
...	Motor vehicle accidents.....	22.8	2.6
...	All other accidents and adverse effects.....	21.7	2.5
5	Chronic obstructive pulmonary diseases and allied conditions.....	26.1	3.0
6	Pneumonia and influenza.....	23.7	2.7
7	Diabetes mellitus.....	15.2	1.7
8	Chronic liver disease and cirrhosis.....	12.9	1.5
9	Atherosclerosis.....	12.5	1.4
10	Suicide.....	12.3	1.4
11	Homicide and legal intervention.....	10.7	1.2
12	Certain conditions originating in the perinatal period.....	9.2	1.1
13	Nephritis, nephrotic syndrome, and nephrosis.....	7.6	0.9
14	Congenital anomalies.....	5.8	0.7
15	Septicemia.....	4.4	0.5
...	All other causes.....	94.9	10.9

between 1980 and 1981 was consistent with the general downward trend since 1950 (figure 3). Age-adjusted death rates also declined between 1980 and 1981 for Chronic liver disease and cirrhosis and for Accidents and adverse effects; rates have been generally declining for the former since 1973, and for the latter, since the mid-1960's. A reduction also occurred in the rate for Certain conditions originating in the perinatal period. The infant mortality rate for this cause declined from 623.4 infant deaths per 100,000 live births in 1980 to 575.7 in 1981. This decrease continues the long-term downward trend for this cause of death.

An increase occurred between 1980 and 1981 in the age-adjusted death rate for Chronic obstructive pulmonary diseases and allied conditions. This is a continuation of the upward trend in chronic respiratory diseases that has been observed since 1950.

For the remaining leading causes of death, provisional data do not indicate a significant change between 1980 and 1981.

Maternal and infant mortality

In 1981 the deaths of an estimated 280 women were attributed to maternal causes, that is, to Complications of pregnancy, childbirth, and the puerperium. The 1981 maternal mortality rate of 7.7 per 100,000 live births was not significantly different from the rates

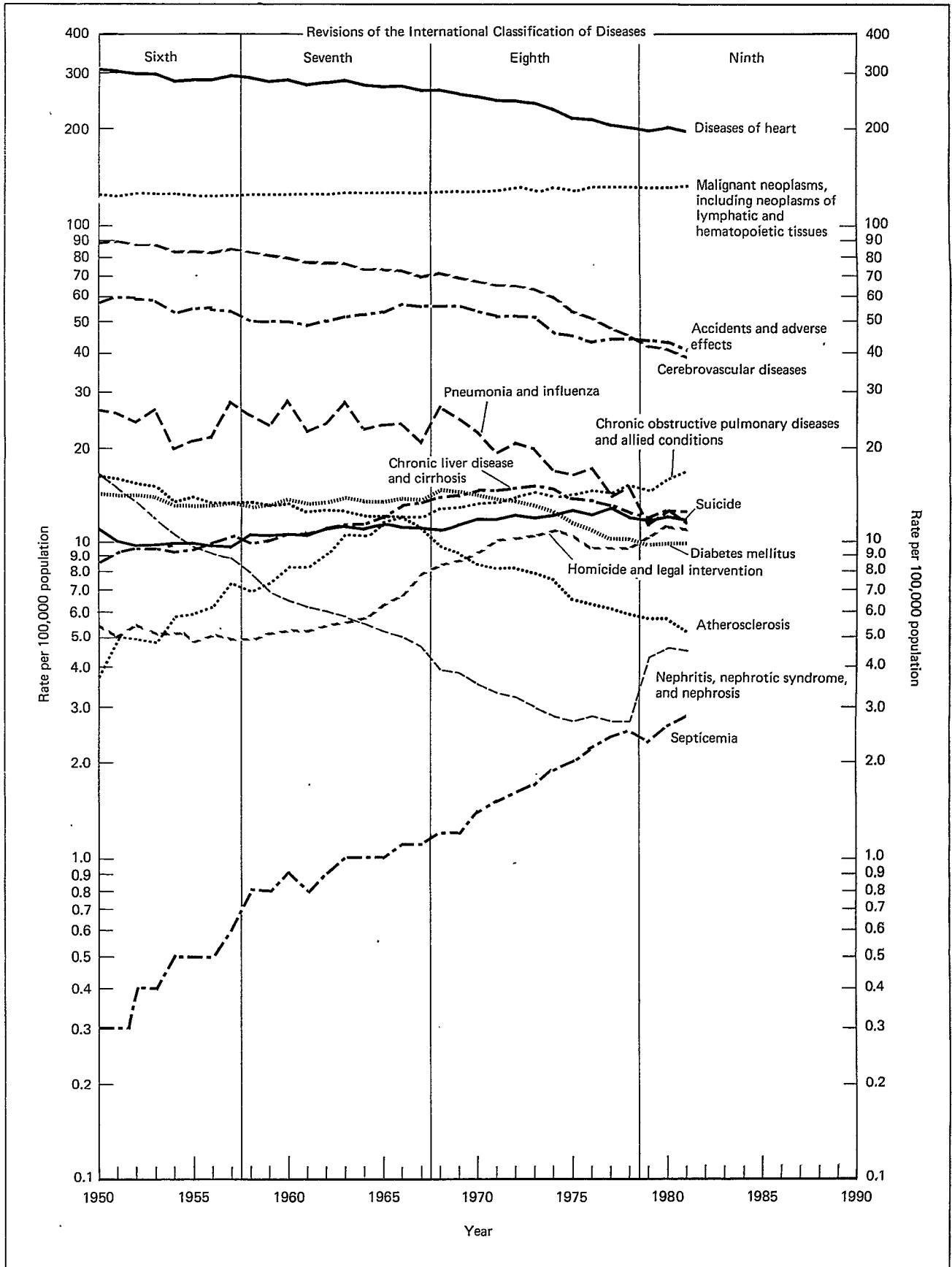


Figure 3. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-81

for the previous 2 years. Since 1950 the maternal mortality trend has been downward (figure 4).

In 1981 an estimated 42,700 infants died in the United States. The estimated infant mortality rate of 11.7 deaths per 1,000 live births was the lowest annual rate ever recorded for the United States. The rate for 1981 decreased more than 6 percent from the estimated rate of 12.5 for 1980. Both the neonatal (under 28 days) and the postneonatal (28 days to 11 months)

mortality rates decreased between 1980 and 1981 (figure 5 and tables F and G).

Marriages

There were 2,438,000 marriages in the United States in 1981, according to provisional reports, 25,000 (1 percent) more than the provisional total for 1980. This was the sixth consecutive annual increase. Since

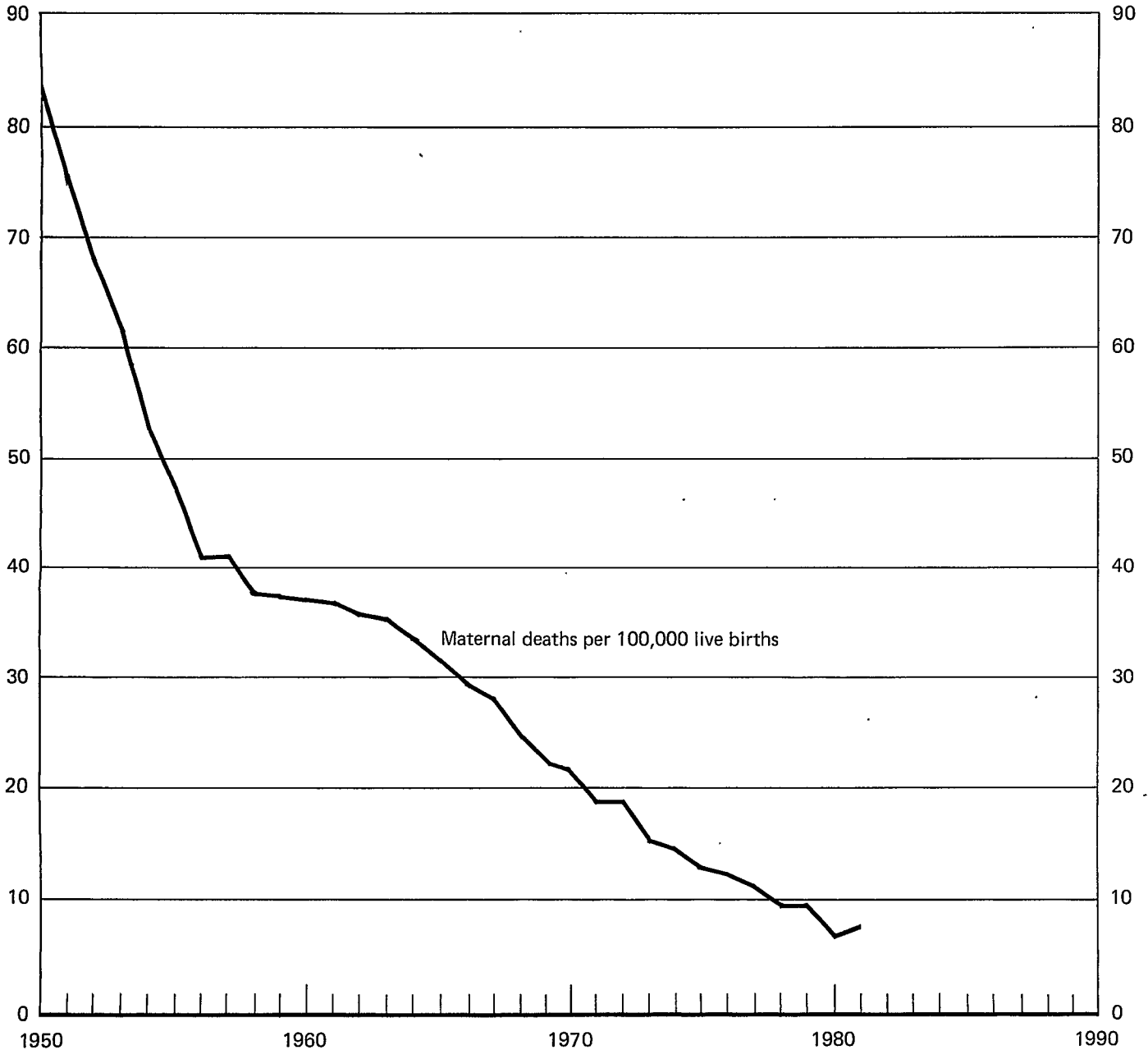


Figure 4. Maternal mortality rates: 1950-81

Table F. Infant mortality rates by age and for 10 selected causes of death: United States, 1979-81

[For 1980 and 1981, based on a 10-percent sample of deaths; for 1979 based on final data. Rates per 100,000 live births]

Age and cause of death (Ninth Revision International Classification of Diseases, 1975)	Number		Rate	
	1981 (est.)	1980 (est.)	1979	
Total, under 1 year.....	1,172.6	1,251.4	1,306.8	
Under 28 days.....	784.2	841.6	886.6	
28 days to 11 months.....	388.7	409.7	420.2	
Certain gastrointestinal diseases..... 008-009,535,555-558	8.2	8.1	9.7	
Pneumonia and influenza..... 480-487	19.5	28.1	32.3	
Congenital anomalies..... 740-759	243.0	254.3	255.4	
Disorders relating to short gestation and unspecified low birthweight.....765	103.4	107.8	100.0	
Birth trauma.....767	23.9	25.3	32.3	
Intrauterine hypoxia and birth asphyxia.....768	38.9	42.2	39.9	
Respiratory distress syndrome.....769	116.0	139.8	156.2	
Other conditions originating in the perinatal period.....760-764,766,770-779	293.2	308.2	339.0	
Sudden infant death syndrome...798.0	135.2	146.8	151.1	
All other causes..... Residual	191.2	190.4	191.0	

Table G. Deaths under 1 year and infant mortality rates, by month: United States, 1980 and 1981

[Rates on an annual basis per 1,000 live births. Monthly rates adjusted for changing numbers of births]

Month	Number		Rate	
	1981	1980	1981	1980
Total.....	42,700	45,000	11.7	12.5
January.....	3,900	3,800	12.9	13.5
February.....	3,700	3,900	13.0	14.4
March.....	3,900	4,000	13.1	13.4
April.....	3,500	3,700	12.4	12.8
May.....	3,500	3,600	11.8	12.2
June.....	3,300	3,700	11.2	12.6
July.....	3,300	3,800	10.4	12.1
August.....	3,300	3,700	10.2	11.4
September.....	3,500	3,600	11.0	11.7
October.....	3,700	3,900	11.7	12.2
November.....	3,500	3,600	11.9	12.5
December.....	3,600	3,800	11.6	12.4

1958 the annual marriage total has increased every year except 1974 and 1975.

The 1981 provisional marriage rate was 10.6 per 1,000 population, the same as for 1980. The rate increased from 8.4 per 1,000 population for 1958 to 10.9 for 1972. After 1972 the marriage rate dropped sharply, falling 9 percent to 9.9 for 1976. It leveled off for 1977 and rebounded to 10.6 for 1980. Since 1867, the first year for which marriage statistics are available, the marriage rate has ranged from a low of 7.9 for 1932 to a high of 16.4 for 1946.

During 1981 the monthly number of marriages in the United States exhibited a typical, seasonal pattern

Table H. Marriages and marriage rates, by month: United States, 1980 and 1981

[Rates on an annual basis per 1,000 population]

Month	Number		Rate	
	1981	1980	1981	1980
Total.....	2,438,000	2,413,000	10.6	10.6
January.....	135,000	140,000	6.9	7.3
February.....	156,000	155,000	8.9	8.6
March.....	147,000	153,000	7.5	8.0
April.....	198,000	190,000	10.5	10.2
May.....	235,000	224,000	12.1	11.7
June.....	287,000	278,000	15.3	14.9
July.....	237,000	235,000	12.2	12.2
August.....	252,000	255,000	12.9	13.2
September.....	216,000	212,000	11.4	11.4
October.....	204,000	206,000	10.4	10.7
November.....	172,000	172,000	9.1	9.2
December.....	200,000	194,000	10.2	10.1

Table J. Marriage rates, seasonally adjusted and unadjusted, by month: United States, 1980 and 1981

[Rates on an annual basis per 1,000 women aged 15-44 years. For method of seasonal adjustment see Technical notes]

Month	Rate unadjusted for seasonal variation		Rate adjusted for seasonal variation	
	1981	1980	1981	1980
January.....	29.6	31.4	44.6	47.6
February.....	37.9	37.1	49.5	48.6
March.....	32.2	34.2	39.4	44.8
April.....	44.9	43.9	47.1	45.6
May.....	51.5	50.0	48.9	46.9
June.....	64.9	64.0	46.3	45.6
July.....	51.8	52.2	44.5	43.6
August.....	54.9	56.5	44.2	45.6
September.....	48.7	48.7	43.3	45.5
October.....	44.3	45.6	45.7	46.8
November.....	38.7	39.2	42.6	42.3
December.....	43.4	42.9	44.7	43.9

characterized by a trough in the beginning of the year and a peak in summer. The number of marriages reported for June 1981 (287,000) was more than twice the number reported for January (135,000). The monthly rates ranged from 6.9 per 1,000 population for January to 15.3 for June (table H).

More specific marriage rates are shown by month for women 15-44 years of age (table J). These rates ranged from 29.6 for January to 64.9 for June.

Among States, California had the most marriages (214,708), 9 percent of the national total. Texas ranked second (192,368). New York was third (150,007).

Rates of marriage varied among States from 7.6 per 1,000 population for Delaware, to 17.4 for South Carolina, to 131.1 for Nevada. Between 1980 and 1981, while the national marriage rate remained stable, rates rose in 24 States and the District of Columbia, fell in 22 States, and were unchanged in 4 States.

Divorces

An estimated 1,219,000 divorces were granted in 1981, the 19th consecutive increase in the annual divorce total and triple the national total recorded in 1962.

The provisional divorce rate for 1981 was 5.3 per 1,000 population, 2 percent higher than the rate for 1980. The divorce rate doubled between 1966 and 1976, rising sharply from 2.5 to 5.0. Then it remained stable for 1977, rose to 5.3 for 1979, dipped to 5.2 for 1980, and rose again in 1981 (figure 6).

Among the States, California had the most divorces (134,371), 11 percent of the national total. Texas ranked second in divorces (99,021). Rates of divorce ranged from 3.3 per 1,000 population for Massachusetts and Pennsylvania to 8.4 for Wyoming, 8.6 for Alaska, and 14.4 for Nevada.

While the national rate rose from 5.2 to 5.3 per 1,000 population between 1980 and 1981, rates declined for 14 States, remained stable for 9 States, and rose for 25 States and the District of Columbia.

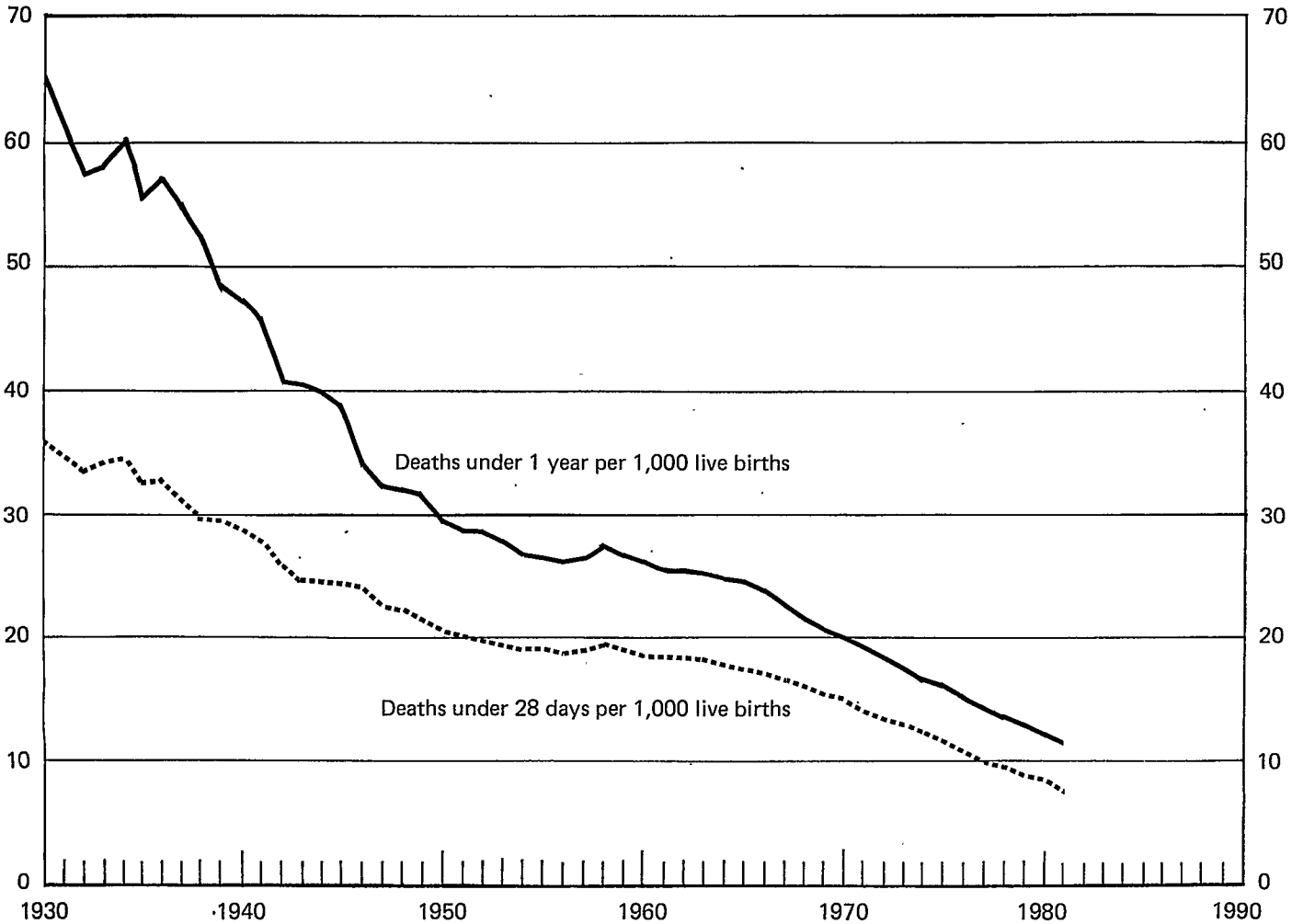


Figure 5. Infant and neonatal mortality rates: 1930-81

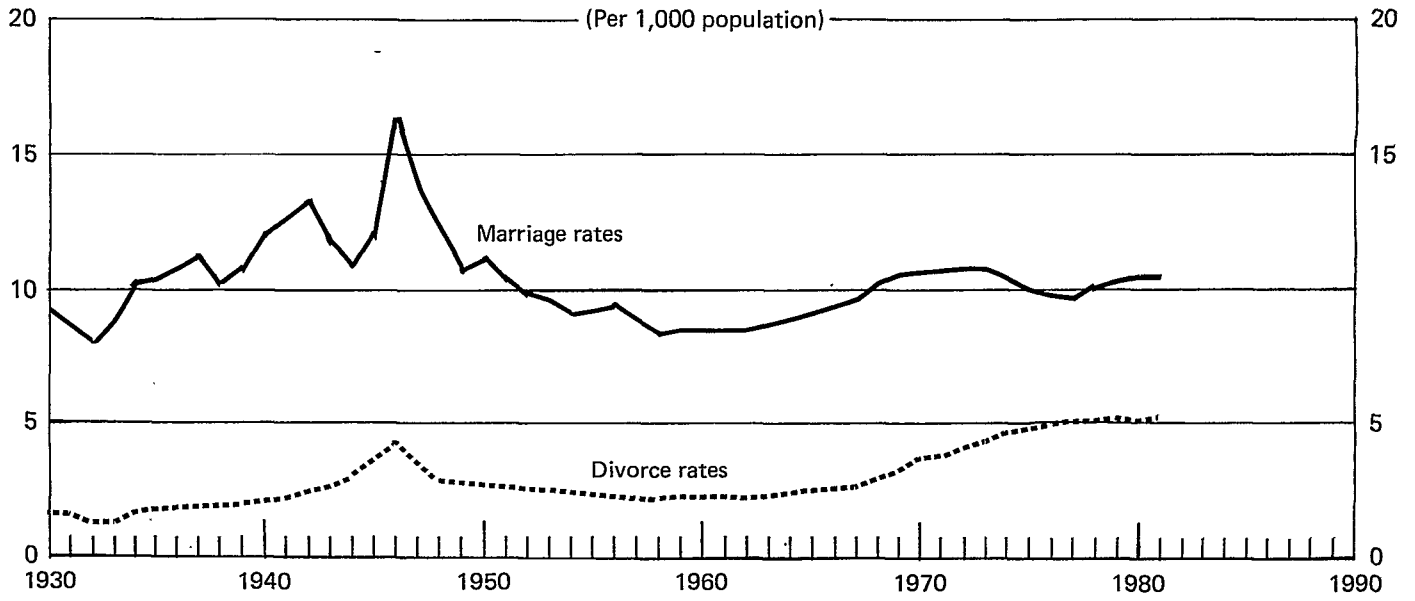


Figure 6. Marriage and divorce rates: 1930-81

References

- ¹National Center for Health Statistics: Annual summary of births, deaths, marriages, and divorces, United States, 1980. *Monthly Vital Statistics Report*. Vol. 29—No. 13. DHHS Pub. No. (PHS) 81-1120. Public Health Service. Hyattsville, Md. Sept. 17, 1981.
- ²Centers for Disease Control (CDC): Annual summary 1979. *Morbidity and Mortality Weekly Report*. Vol. 28—No. 54. DHHS Pub. No. (CDC) 80-8241. Atlanta, Ga. Sept. 2, 1980.
- ³Centers for Disease Control (CDC): *Morbidity and Mortality Weekly Report*. Vol. 30—No. 10. DHHS Pub. No. (CDC) 81-8017. Atlanta, Ga. Mar. 20, 1981.
- ⁴Centers for Disease Control (CDC): *Morbidity and Mortality Weekly Report*. Vol. 31—No. 27. DHHS Pub. No. (CDC) 82-8017. Atlanta, Ga. July 16, 1982.
- ⁵National Center for Health Statistics: Advance report, final marriage statistics, 1978. *Monthly Vital Statistics Report*. Vol. 29—No. 6. Supp. 1. DHHS Pub. No. (PHS) 80-1120. Public Health Service. Hyattsville, Md. Sept. 12, 1980.
- ⁶National Center for Health Statistics: Annual summary for the United States, 1978. *Monthly Vital Statistics Report*. Vol. 27—No. 13, pp. 13-14. DHHS Pub. No. (PHS) 79-1120. Public Health Service. Hyattsville, Md. Aug. 13, 1979.
- ⁷World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*, based on the recommendations of the Ninth Revision Conference, 1975. Geneva. World Health Organization, 1977.
- ⁸National Center for Health Statistics: Estimates of selected comparability ratios based on dual coding of 1976 death certificates by the Eighth and Ninth Revisions of the International Classification of Diseases, by A. J. Klebba and J. H. Scott. *Monthly Vital Statistics Report*. Vol. 28—No. 11 Supp. DHEW Pub. No. (PHS) 80-1120. Public Health Service. Hyattsville, Md. Feb. 29, 1980.
- ⁹National Center for Health Statistics: Comparability of mortality statistics for the Seventh and Eighth Revisions of the International Classification of Diseases, United States, by A. Joan Klebba and Alice B. Dolman. *Vital and Health Statistics*. Series 2—No. 66. DHEW Pub. No. (HRA) 76-1340. Health Resources Administration. Washington. U.S. Government Printing Office, Oct. 1975.
- ¹⁰National Center for Health Statistics: Comparability of mortality statistics for the Sixth and Seventh Revisions, United States, 1958. *Vital Statistics—Special Reports*. Vol. 51—No. 4. Public Health Service. Washington. U.S. Government Printing Office, Mar. 1965.
- ¹¹U.S. Bureau of the Census: Preliminary estimates of the population of the United States, by age, sex, and race: 1970-1981. *Current Population Reports*. Series P-25, No. 917. Washington. U.S. Government Printing Office, July 1982.
- ¹²U.S. Bureau of the Census: Coverage of the national population in the 1980 census, by age, sex, and race: Preliminary estimates by demographic analysis. *Current Population Reports*. Series P-23, No. 115. Washington. U.S. Government Printing Office, Feb. 1982.
- ¹³U.S. Bureau of the Census: Effect of changing birth rates upon infant mortality rates. *Vital Statistics—Special Reports*. Vol. 19—No. 21. U.S. Department of Commerce. Washington, Nov. 10, 1944.

Table 1. Live births, marriages, and rates: Each reporting area, 1980 and 1981

[By place of occurrence. Rates per 1,000 population in specified area]

Area	Live births				Marriages ¹			
	Number		Rate		Number		Rate	
	1981	1980	1981	1980	1981	1980	1981	1980
New England.....	164,166	157,318	13.2	12.7	107,034	110,875	8.6	9.0
Maine.....	16,482	16,095	14.5	14.3	12,552	14,351	11.1	12.7
New Hampshire.....	13,501	13,647	14.4	14.8	9,916	9,292	10.6	10.1
Vermont.....	7,655	7,640	14.8	14.9	5,207	5,187	10.1	10.1
Massachusetts.....	76,075	73,355	13.2	12.8	46,274	49,058	8.0	8.5
Rhode Island.....	12,849	12,512	13.5	13.2	7,539	7,120	7.9	7.5
Connecticut.....	37,604	34,069	12.0	10.9	25,546	25,867	8.2	8.3
Middle Atlantic.....	497,758	484,563	13.5	13.2	300,118	291,649	8.1	7.9
New York.....	242,873	232,491	13.8	13.2	150,007	141,299	8.5	8.0
New Jersey.....	93,529	91,047	12.6	12.3	57,741	54,956	7.8	7.4
Pennsylvania.....	161,356	161,025	13.6	13.6	92,370	95,394	7.8	8.0
East North Central.....	648,686	661,318	15.6	15.9	391,513	398,600	9.4	9.6
Ohio.....	169,986	169,359	15.8	15.7	99,617	99,522	9.2	9.2
Indiana.....	84,634	87,906	15.5	16.0	55,699	57,852	10.2	10.5
Illinois.....	181,560	186,576	15.8	16.3	109,449	110,667	9.5	9.7
Michigan.....	138,988	143,007	15.1	15.5	85,814	89,606	9.3	9.7
Wisconsin.....	73,518	74,470	15.5	15.8	40,934	40,953	8.6	8.7
West North Central.....	284,931	289,039	16.5	16.8	173,835	175,055	10.1	10.2
Minnesota.....	66,943	68,233	16.4	16.7	37,945	37,825	9.3	9.3
Iowa.....	46,617	48,050	16.1	16.5	27,063	27,527	9.3	9.4
Missouri.....	77,883	79,623	15.8	16.2	53,265	55,518	10.8	11.3
North Dakota.....	13,415	12,939	20.4	19.8	6,182	6,139	9.4	9.4
South Dakota.....	12,679	13,013	18.5	18.9	8,708	8,929	12.7	12.9
Nebraska.....	27,155	27,851	17.2	17.7	14,418	14,189	9.1	9.0
Kansas.....	40,239	39,330	16.9	16.6	26,254	24,928	11.0	10.5
South Atlantic.....	550,349	547,459	14.6	14.7	420,099	413,471	11.1	11.1
Delaware.....	9,372	9,544	15.7	16.0	4,561	4,423	7.6	7.4
Maryland.....	54,137	52,284	12.7	12.4	46,840	45,967	11.0	10.9
District of Columbia.....	17,801	17,835	28.2	28.0	5,310	5,182	8.4	8.1
Virginia.....	76,266	75,042	14.0	14.0	61,460	60,193	11.3	11.2
West Virginia.....	28,503	29,923	14.6	15.3	16,734	17,451	8.6	8.9
North Carolina.....	84,470	85,123	14.2	14.5	48,040	46,341	8.1	7.9
South Carolina.....	49,605	49,805	15.7	15.9	55,008	53,923	17.4	17.2
Georgia.....	91,991	95,980	16.5	17.5	70,486	69,416	12.6	12.7
Florida.....	138,204	131,923	13.6	13.4	111,660	110,575	11.0	11.2
East South Central.....	236,724	244,630	16.1	16.7	169,914	170,091	11.5	11.6
Kentucky.....	58,047	60,778	15.9	16.6	35,201	34,291	9.6	9.4
Tennessee.....	71,696	73,500	15.5	16.0	59,865	58,751	13.0	12.8
Alabama.....	61,139	62,814	15.6	16.1	47,318	49,006	12.1	12.6
Mississippi.....	45,842	47,538	18.1	18.8	27,530	28,043	10.9	11.1
West South Central.....	455,905	435,463	18.6	18.2	311,358	300,482	12.7	12.6
Arkansas.....	35,386	36,863	15.4	16.0	26,724	25,197	11.6	11.0
Louisiana.....	81,995	79,202	19.0	18.8	44,139	41,658	10.2	9.9
Oklahoma.....	51,252	50,681	16.5	16.7	48,127	46,509	15.5	15.3
Texas.....	287,272	268,717	19.5	18.8	192,368	187,118	13.0	13.1
Mountain.....	231,853	225,939	19.8	19.8	244,169	241,393	20.9	21.1
Montana.....	13,939	13,928	17.6	17.7	8,221	8,367	10.4	10.6
Idaho.....	19,379	19,495	20.2	20.6	14,372	13,084	15.0	13.8
Wyoming.....	10,162	9,539	20.7	20.1	7,052	6,825	14.3	14.4
Colorado.....	52,654	50,279	17.8	17.3	36,461	34,078	12.3	11.7
New Mexico.....	28,262	25,661	21.3	19.7	17,130	16,324	12.9	12.5
Arizona.....	51,322	50,173	18.4	18.4	31,784	30,230	11.4	11.1
Utah.....	41,973	43,708	27.7	29.7	18,346	17,074	12.1	11.6
Nevada.....	14,162	13,156	16.8	16.3	110,803	115,411	131.1	143.0
Pacific.....	564,934	541,196	17.4	17.0	304,474	305,092	9.4	9.6
Washington.....	70,274	67,972	16.7	16.4	48,901	46,617	11.6	11.2
Oregon.....	44,425	43,998	16.8	16.7	22,747	23,115	8.6	8.8
California.....	422,066	401,581	17.4	16.9	214,708	218,404	8.9	9.2
Alaska.....	9,928	9,368	24.1	23.2	5,809	5,286	14.1	13.1
Hawaii.....	18,241	18,277	18.6	18.9	12,309	11,670	12.5	12.0

¹ Data are either marriages reported or marriage licenses issued; see Technical notes.

Table 2. Deaths, infant deaths, and rates: Each reporting area, 1980 and 1981

[By place of occurrence. Rates for deaths at all ages are per 1,000 population in specified area. Infant mortality rates are deaths under 1 year per 1,000 live births in specified area]

Area	Deaths (all ages)				Infant deaths (under 1 year)			
	Number		Rate		Number		Rate	
	1981	1980	1981	1980	1981	1980	1981	1980
New England.....	107,670	113,639	8.7	9.2	1,483	1,614	9.0	10.3
Maine.....	10,382	10,857	9.2	9.6	158	140	9.6	8.7
New Hampshire.....	7,577	7,547	8.1	8.2	126	111	9.3	8.1
Vermont.....	4,502	4,312	8.7	8.4	59	63	7.7	8.2
Massachusetts.....	49,899	54,773	8.6	9.5	613	803	8.1	10.9
Rhode Island.....	9,384	9,553	9.8	10.1	174	150	13.5	12.0
Connecticut.....	25,926	26,597	8.3	8.5	353	347	9.4	10.2
Middle Atlantic.....	356,308	355,896	9.7	9.7	5,960	6,461	12.0	13.3
New York.....	169,249	167,769	9.6	9.5	3,062	3,210	12.6	13.8
New Jersey.....	66,999	64,727	9.0	8.8	1,062	1,072	11.4	11.8
Pennsylvania.....	120,060	123,400	10.1	10.4	1,836	2,179	11.4	13.5
East North Central.....	360,069	359,924	8.6	8.6	7,773	8,188	12.0	12.4
Ohio.....	97,840	97,779	9.1	9.1	1,872	2,020	11.0	11.9
Indiana.....	48,110	46,721	8.8	8.5	989	983	11.7	11.2
Illinois.....	99,121	100,450	8.6	8.8	2,474	2,696	13.6	14.4
Michigan.....	75,166	74,002	8.2	8.0	1,810	1,794	13.0	12.5
Wisconsin.....	39,832	40,972	8.4	8.7	628	695	8.5	9.3
West North Central.....	156,376	158,035	9.1	9.2	3,240	3,316	11.4	11.5
Minnesota.....	32,207	33,048	7.9	8.1	682	694	10.2	10.2
Iowa.....	26,798	26,714	9.2	9.2	446	530	9.6	11.0
Missouri.....	49,815	49,881	10.1	10.1	1,123	1,113	14.4	14.0
North Dakota.....	5,786	5,850	8.8	8.9	179	157	13.3	12.1
South Dakota.....	6,291	6,462	9.2	9.4	126	125	9.9	9.6
Nebraska.....	14,322	14,681	9.1	9.3	275	320	10.1	11.5
Kansas.....	21,157	21,399	8.9	9.0	409	377	10.2	9.6
South Atlantic.....	341,155	332,442	9.0	9.0	7,643	7,730	13.9	14.1
Delaware.....	5,169	5,201	8.6	8.7	114	123	12.2	12.9
Maryland.....	33,474	33,337	7.9	7.9	594	614	11.0	11.7
District of Columbia.....	8,913	9,165	14.1	14.4	474	522	26.6	29.3
Virginia.....	41,539	41,889	7.6	7.8	939	970	12.3	12.9
West Virginia.....	19,469	19,120	10.0	9.8	395	384	13.9	12.8
North Carolina.....	49,752	49,059	8.4	8.3	1,154	1,236	13.7	14.5
South Carolina.....	24,578	24,337	7.8	7.8	761	769	15.3	15.4
Georgia.....	47,367	43,519	8.5	7.9	1,361	1,208	14.8	12.6
Florida.....	110,894	106,815	10.9	10.8	1,851	1,904	13.4	14.4
East South Central.....	134,782	134,770	9.2	9.2	3,183	3,483	13.4	14.2
Kentucky.....	33,462	33,268	9.1	9.1	670	717	11.5	11.8
Tennessee.....	43,040	43,205	9.3	9.4	1,023	1,065	14.3	14.5
Alabama.....	35,180	35,386	9.0	9.1	811	946	13.3	15.1
Mississippi.....	23,100	22,911	9.1	9.1	679	755	14.8	15.9
West South Central.....	199,018	195,085	8.1	8.2	5,643	5,434	12.4	12.5
Arkansas.....	22,224	22,565	9.7	9.8	381	431	10.8	11.7
Louisiana.....	36,289	35,626	8.4	8.4	1,144	1,222	14.0	15.4
Oklahoma.....	27,801	28,308	9.0	9.3	594	555	11.6	11.0
Texas.....	112,704	108,586	7.6	7.6	3,524	3,226	12.3	12.0
Mountain.....	82,507	81,241	7.1	7.1	2,388	2,529	10.3	11.2
Montana.....	6,692	6,592	8.4	8.4	134	142	9.6	10.2
Idaho.....	6,612	6,431	6.9	6.8	141	151	7.3	7.7
Wyoming.....	2,969	3,062	6.0	6.4	68	63	6.7	6.6
Colorado.....	20,053	19,503	6.8	6.7	564	555	10.7	11.0
New Mexico.....	8,871	9,080	6.7	7.0	245	272	8.7	10.6
Arizona.....	22,348	21,609	8.0	7.9	634	684	12.4	13.6
Utah.....	8,445	8,556	5.6	5.8	442	505	10.5	11.6
Nevada.....	6,517	6,408	7.7	7.9	160	157	11.3	11.9
Pacific.....	249,763	251,417	7.7	7.9	5,641	6,247	10.0	11.5
Washington.....	33,158	32,495	7.9	7.8	542	789	7.7	11.6
Oregon.....	21,857	21,793	8.2	8.3	498	556	11.2	12.6
California.....	187,658	190,247	7.8	8.0	4,274	4,593	10.1	11.4
Alaska.....	1,808	1,692	4.4	4.2	135	115	13.6	12.3
Hawaii.....	5,282	5,190	5.4	5.4	192	194	10.5	10.6

Table 3. Divorces and divorce rates: United States and each reporting area, 1980 and 1981

[By place of occurrence. Rates per 1,000 population in specified area]

Area	Number		Rate	
	1981	1980	1981	1980
United States ¹	1,219,000	1,182,000	5.3	5.2
Total, 49 areas.....	1,157,898	1,115,309	5.3	5.1
Alabama	26,640	26,856	6.8	6.9
Alaska.....	3,555	3,435	8.6	8.5
Arizona.....	20,988	19,921	7.5	7.3
Arkansas	18,419	21,778	8.0	9.5
California	134,371	134,309	5.6	5.7
Colorado.....	18,373	18,155	6.2	6.3
Connecticut.....	12,049	11,935	3.8	3.8
Delaware	2,921	2,313	4.9	3.9
District of Columbia	3,649	3,473	5.8	5.5
Florida.....	75,503	71,409	7.4	7.2
Georgia.....	35,294	33,636	6.3	6.1
Hawaii.....	4,256	4,386	4.3	4.5
Idaho.....	6,700	6,643	7.0	7.0
Illinois.....	52,851	50,465	4.6	4.4
Iowa	12,164	11,757	4.2	4.0
Kansas.....	14,430	13,399	6.1	5.7
Kentucky.....	17,644	16,988	4.8	4.6
Maine.....	6,356	6,239	5.6	5.5
Maryland.....	16,054	16,293	3.8	3.9
Massachusetts.....	19,145	16,487	3.3	2.9
Michigan.....	46,407	40,850	5.0	4.4
Minnesota.....	15,906	15,132	3.9	3.7
Mississippi.....	13,143	13,458	5.2	5.3
Missouri.....	27,295	27,820	5.5	5.6
Montana.....	5,017	4,963	6.3	6.3
Nebraska.....	6,846	6,481	4.3	4.1
Nevada.....	12,164	13,659	14.4	16.9
New Hampshire.....	5,182	5,222	5.5	5.7
New Jersey.....	28,923	25,910	3.9	3.5
New Mexico.....	10,592	10,444	8.0	8.0
New York.....	63,148	54,224	3.6	3.1
North Carolina.....	29,692	28,161	5.0	4.8
North Dakota.....	2,319	2,142	3.5	3.3
Ohio.....	58,291	58,225	5.4	5.4
Oklahoma.....	24,989	24,226	8.1	8.0
Oregon.....	17,714	17,925	6.7	6.8
Pennsylvania.....	39,147	34,853	3.3	2.9
Rhode Island.....	3,408	3,583	3.6	3.8
South Carolina.....	14,137	13,810	4.5	4.4
South Dakota.....	2,781	2,823	4.1	4.1
Tennessee.....	31,816	30,100	6.9	6.6
Texas.....	99,021	97,161	6.7	6.8
Utah.....	8,259	7,957	5.4	5.4
Vermont.....	2,350	2,522	4.6	4.9
Virginia.....	25,269	23,608	4.7	4.4
Washington.....	29,195	28,424	6.9	6.9
West Virginia.....	11,064	9,915	5.7	5.1
Wisconsin.....	18,309	17,864	3.9	3.8
Wyoming.....	4,152	3,970	8.4	8.4

¹ Data are estimated; see Technical notes.

Table 4. Abridged life table for the total population: United States, 1981

[For explanation of the columns of the life table, see Section 5 of *Vital Statistics of the United States, 1977, Volume II, Part A*]

Age interval	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of age interval	Number dying during age interval	In the age interval	In this and all subsequent age intervals	Average number of years of life remaining at beginning of age interval
Period of life between two exact ages stated in years	Proportion of persons alive at beginning of age interval dying during interval					
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x + n$	nq_x	l_x	$n d_x$	nL_x	T_x	\dot{e}_x
0-1	0.0117	100,000	1,175	98,977	7,410,177	74.1
1-5 .....	.0024	98,825	235	394,754	7,311,200	74.0
5-10 .....	.0015	98,590	152	492,542	6,916,446	70.2
10-15 .....	.0015	98,438	151	491,871	6,423,904	65.3
15-20 .....	.0046	98,287	449	490,417	5,932,033	60.4
20-25 .....	.0062	97,838	603	487,702	5,441,616	55.6
25-30 .....	.0068	97,235	658	484,530	4,953,914	50.9
30-35 .....	.0069	96,577	668	481,287	4,469,384	46.3
35-40 .....	.0093	95,909	887	477,470	3,988,097	41.6
40-45 .....	.0138	95,022	1,307	472,058	3,510,627	36.9
45-50 .....	.0219	93,715	2,048	463,775	3,038,569	32.4
50-55 .....	.0349	91,667	3,203	450,825	2,574,794	28.1
55-60 .....	.0527	88,464	4,660	431,298	2,123,969	24.0
60-65 .....	.0784	83,804	6,567	403,360	1,692,671	20.2
65-70 .....	.1141	77,237	8,809	365,021	1,289,311	16.7
70-75 .....	.1664	68,428	11,384	314,582	924,290	13.5
75-80 .....	.2345	57,044	13,375	252,250	609,708	10.7
80-85 .....	.3413	43,669	14,904	180,481	357,458	8.2
85 and over	1.0000	28,765	28,765	176,977	176,977	6.2

Table 5. Death rates by age, race, and sex: United States, 1950, 1960, and 1970-81

[For 1980 and 1981, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population in specified group]

Race, sex, and year	All ages ¹	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Total												
1981 (est.).....	866.4	1,190.4	60.2	30.7	107.7	137.0	227.4	578.3	1,335.5	2,937.9	6,421.6	15,329.8
1980 (est.).....	874.1	1,269.0	64.1	30.7	115.6	135.9	225.5	591.6	1,348.0	2,955.3	6,629.0	15,655.7
1979 ²	852.2	1,332.9	64.2	31.5	114.8	133.0	229.8	589.7	1,338.0	2,929.0	6,496.6	14,962.4
1978 ²	868.0	1,381.4	67.9	33.2	115.0	131.7	238.7	610.4	1,387.1	3,015.9	6,709.7	15,479.6
1977 ²	864.4	1,432.6	67.6	34.0	114.8	132.8	247.3	621.2	1,408.5	3,044.1	6,755.7	15,369.0
1976 ²	877.6	1,549.4	68.8	34.2	111.7	133.2	253.9	635.3	1,452.3	3,118.1	6,952.0	16,058.6
1975 ²	878.5	1,603.0	69.9	35.2	117.3	140.6	266.7	649.9	1,475.3	3,179.5	7,034.5	15,655.0
1974 ²	906.7	1,721.9	73.3	37.8	120.3	144.5	278.6	675.3	1,533.0	3,318.6	7,377.1	16,901.1
1973 ²	933.5	1,776.9	79.0	40.7	127.1	151.9	295.9	697.6	1,598.6	3,432.2	7,708.5	17,678.9
1972 ^{2,3}	938.4	1,820.4	80.4	40.6	126.9	152.6	302.0	710.5	1,621.7	3,521.2	7,805.0	17,543.1
1971 ²	932.0	1,887.8	82.3	40.9	126.1	155.7	307.4	710.1	1,617.4	3,482.9	7,774.3	17,567.0
1970 ²	945.3	2,142.4	84.5	41.3	127.7	157.4	314.5	730.0	1,658.8	3,582.7	8,004.4	16,344.9
1960.....	954.7	2,696.4	109.1	46.6	106.3	146.4	299.4	756.0	1,735.1	3,822.1	8,745.2	19,857.5
1950.....	963.8	3,299.2	139.4	60.1	128.1	178.7	358.7	853.9	1,901.0	4,104.3	9,331.1	20,196.9
Male												
1981 (est.).....	961.6	1,344.8	68.2	38.6	159.2	197.5	301.6	760.7	1,783.9	4,012.8	8,526.2	18,238.0
1980 (est.).....	976.6	1,409.9	72.1	36.2	174.3	198.0	298.9	784.4	1,821.7	4,063.4	8,808.7	18,393.6
1979 ²	957.5	1,482.0	71.0	38.4	171.0	192.3	301.0	778.9	1,815.4	4,048.9	8,565.4	17,604.4
1978 ²	977.5	1,532.8	76.7	40.5	169.4	186.8	311.6	802.1	1,884.5	4,181.5	8,835.6	18,211.8
1977 ²	978.9	1,599.7	75.2	41.8	169.2	188.5	321.2	818.1	1,915.7	4,224.3	8,898.1	18,071.6
1976 ²	993.8	1,715.0	76.9	41.9	164.8	187.0	329.8	837.7	1,981.6	4,331.4	9,077.8	18,666.5
1975 ²	1,002.0	1,786.2	76.7	43.3	174.1	198.9	345.4	859.3	2,018.9	4,409.4	9,154.4	18,134.7
1974 ²	1,031.5	1,931.5	81.5	46.4	178.9	201.8	357.4	893.1	2,099.6	4,580.2	9,484.0	19,276.6
1973 ²	1,065.2	2,001.6	88.2	49.6	187.8	211.8	379.4	918.5	2,196.2	4,727.4	9,867.9	20,067.1
1972 ^{2,3}	1,074.9	2,055.1	89.4	48.6	186.7	209.9	385.9	941.4	2,237.9	4,814.0	9,949.3	19,821.1
1971 ²	1,069.4	2,121.4	90.6	49.3	185.4	213.0	392.0	932.1	2,221.2	4,758.8	9,820.3	19,901.4
1970 ²	1,090.3	2,410.0	93.2	50.5	188.5	215.3	402.6	958.5	2,282.7	4,873.8	10,010.2	17,821.5
1960.....	1,104.5	3,059.3	119.5	55.7	152.1	187.9	372.8	992.2	2,309.5	4,914.4	10,178.4	21,186.3
1950.....	1,106.1	3,728.0	151.7	70.9	167.9	216.5	428.8	1,067.1	2,395.3	4,931.4	10,426.0	21,636.0
Female												
1981 (est.).....	776.5	1,029.1	51.7	22.4	55.2	77.2	156.2	407.9	941.6	2,114.8	5,185.8	14,089.4
1980 (est.).....	777.2	1,121.2	55.7	24.9	55.9	75.0	155.0	411.7	932.1	2,106.6	5,345.8	14,461.8
1979 ²	752.7	1,176.6	57.0	24.3	57.6	74.8	161.4	413.4	917.7	2,072.3	5,270.7	13,788.2
1978 ²	764.5	1,222.7	58.8	25.6	59.6	77.5	168.6	431.7	948.2	2,125.3	5,444.1	14,245.0
1977 ²	756.0	1,257.0	59.7	25.8	59.6	78.2	176.4	437.9	959.8	2,141.1	5,473.5	14,127.6
1976 ²	767.6	1,375.2	60.4	26.1	57.7	80.5	181.1	447.1	983.8	2,188.8	5,668.4	14,833.6
1975 ²	761.4	1,410.9	62.7	26.8	59.8	83.6	191.4	455.2	993.7	2,237.3	5,743.1	14,454.5
1974 ²	788.3	1,502.1	64.6	28.8	61.1	88.7	203.2	472.9	1,030.6	2,351.2	6,079.1	15,724.7
1973 ²	808.3	1,542.2	69.4	31.3	65.9	93.3	216.1	492.4	1,067.6	2,437.6	6,359.4	16,477.0
1972 ^{2,3}	808.7	1,575.3	71.0	32.2	66.9	96.9	222.0	496.1	1,072.5	2,524.0	6,438.1	16,377.3
1971 ²	801.4	1,642.9	73.8	32.3	67.2	100.3	226.9	503.7	1,077.5	2,494.8	6,447.3	16,348.5
1970 ²	807.8	1,863.7	75.4	31.8	68.1	101.6	231.1	517.2	1,098.9	2,579.7	6,677.6	15,518.0
1960.....	809.2	2,321.3	98.4	37.3	61.3	106.6	229.4	526.7	1,196.4	2,871.8	7,633.1	19,008.4
1950.....	823.5	2,854.6	126.7	48.9	89.1	142.7	290.3	641.5	1,404.8	3,333.2	8,399.6	19,194.7

See footnotes at end of table.

Table 5. Death rates by age, race, and sex: United States, 1950, 1960, and 1970-81—Con.

[For 1980 and 1981, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population in specified group]

Race, sex, and year	All ages ¹	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
White												
1981 (est.)	885.1	1,063.0	55.7	29.5	104.6	120.4	199.1	533.9	1,265.5	2,873.8	6,431.0	15,522.3
1980 (est.)	888.7	1,088.1	58.2	29.7	112.3	119.6	197.3	540.4	1,272.5	2,885.2	6,600.5	15,914.5
1979 ²	865.2	1,135.5	57.5	30.1	111.8	115.8	198.6	538.5	1,272.5	2,861.7	6,501.9	15,223.1
1978 ²	880.2	1,169.2	61.2	31.5	111.6	114.9	206.3	559.2	1,318.5	2,945.8	6,734.8	15,761.1
1977 ²	874.6	1,221.4	61.1	32.4	110.8	114.9	213.6	567.6	1,338.2	2,969.5	6,790.6	15,642.8
1976 ²	887.7	1,320.1	62.8	32.7	106.0	113.7	218.7	580.6	1,383.5	3,039.8	7,007.5	16,372.5
1975 ²	886.9	1,377.0	63.3	33.4	110.0	119.2	229.4	596.8	1,405.4	3,094.7	7,096.2	15,970.0
1974 ²	913.8	1,498.2	66.4	36.1	111.7	121.2	237.9	617.3	1,457.9	3,219.7	7,457.4	17,251.1
1973 ²	937.7	1,545.9	70.9	38.4	117.5	126.9	252.2	633.4	1,518.3	3,325.2	7,778.9	18,047.8
1972 ^{2,3}	941.7	1,572.4	72.9	38.9	115.5	125.6	255.2	646.1	1,542.0	3,421.8	7,878.0	17,952.6
1971 ²	933.9	1,643.3	74.0	38.6	113.3	127.8	261.1	648.8	1,538.9	3,387.7	7,833.0	18,004.0
1970 ²	946.3	1,869.7	75.1	39.1	115.8	129.9	267.0	666.2	1,577.1	3,490.1	8,043.3	16,889.7
1960	947.8	2,357.7	95.2	43.9	99.1	123.6	260.4	692.3	1,632.8	3,739.8	8,827.2	20,354.5
1950	945.7	2,992.6	124.1	56.4	111.7	148.3	307.6	765.0	1,799.6	4,023.1	9,416.5	20,678.6
White, male												
1981 (est.)	973.2	1,193.9	62.4	38.0	154.6	174.3	262.5	700.2	1,695.6	3,950.8	8,590.3	18,520.2
1980 (est.)	983.2	1,221.5	66.4	34.1	169.0	173.2	260.0	718.8	1,726.8	4,004.6	8,790.2	18,728.1
1979 ²	963.3	1,276.0	64.2	36.6	167.0	166.7	257.5	711.3	1,734.5	3,991.5	8,624.0	17,924.0
1978 ²	982.7	1,302.9	69.9	38.3	164.8	162.3	267.0	735.2	1,800.9	4,120.8	8,923.3	18,587.9
1977 ²	983.0	1,377.4	68.1	39.7	164.0	162.0	275.7	748.9	1,831.8	4,165.2	9,006.7	18,420.8
1976 ²	997.3	1,473.1	70.5	40.0	156.8	158.5	282.8	767.0	1,900.2	4,266.5	9,208.3	19,108.2
1975 ²	1,004.1	1,551.9	70.1	40.9	163.6	166.4	295.1	791.0	1,940.9	4,343.0	9,274.7	18,562.2
1974 ²	1,032.4	1,695.3	74.5	44.2	166.6	168.2	304.8	821.1	2,016.0	4,501.2	9,621.5	19,733.4
1973 ²	1,063.8	1,756.5	79.2	46.6	174.5	175.6	324.0	840.3	2,110.1	4,645.8	9,992.0	20,561.2
1972 ^{2,3}	1,072.0	1,796.6	81.9	46.7	169.5	171.2	325.1	861.7	2,154.4	4,739.2	10,073.9	20,351.6
1971 ²	1,066.5	1,860.8	81.6	46.2	166.4	173.6	334.7	860.6	2,141.1	4,691.8	9,940.1	20,508.6
1970 ²	1,086.7	2,113.2	83.6	48.0	170.8	176.6	343.5	882.9	2,202.6	4,810.1	10,098.8	18,551.7
1960	1,098.5	2,694.1	104.9	52.7	143.7	163.2	332.6	932.2	2,225.2	4,848.4	10,299.6	21,750.0
1950	1,089.5	3,400.5	135.5	67.2	152.4	185.3	380.9	984.5	2,304.4	4,864.9	10,526.3	22,116.3
White, female												
1981 (est.)	801.3	924.8	48.7	20.7	53.2	66.2	136.8	375.4	884.2	2,046.8	5,174.9	14,272.2
1980 (est.)	798.8	946.8	49.4	25.0	54.0	65.7	135.8	370.7	870.1	2,026.6	5,323.9	14,715.7
1979 ²	771.8	986.7	50.4	23.2	55.2	64.7	140.9	374.5	862.8	1,997.9	5,258.6	14,027.9
1978 ²	782.7	1,027.5	52.0	24.4	57.0	67.5	146.7	392.8	890.0	2,049.3	5,447.1	14,501.5
1977 ²	771.3	1,056.7	53.7	24.8	56.3	67.8	152.8	396.4	899.0	2,057.2	5,482.8	14,384.9
1976 ²	783.1	1,159.0	54.8	25.0	54.0	68.9	156.2	405.1	923.4	2,102.9	5,697.0	15,121.7
1975 ²	775.1	1,191.7	56.2	25.5	55.3	72.1	165.3	414.0	928.6	2,142.0	5,785.4	14,749.7
1974 ²	800.5	1,290.4	57.8	27.6	55.7	74.5	172.8	425.8	960.7	2,242.1	6,135.9	16,040.4
1973 ²	817.3	1,324.8	62.1	29.9	59.6	78.5	182.3	439.4	990.4	2,315.8	6,408.3	16,820.7
1972 ^{2,3}	817.3	1,337.1	63.4	30.7	60.8	80.4	187.4	444.0	994.3	2,410.3	6,492.7	16,745.6
1971 ²	807.4	1,414.2	66.0	30.6	60.1	82.7	189.9	450.2	999.2	2,382.9	6,484.1	16,721.1
1970 ²	812.6	1,614.6	66.1	29.9	61.6	84.1	193.3	462.9	1,014.9	2,470.7	6,698.7	15,980.2
1960	800.9	2,007.7	85.2	34.7	54.9	85.0	191.1	458.8	1,078.9	2,779.3	7,696.6	19,477.7
1950	803.3	2,566.8	112.2	45.1	71.5	112.8	235.8	546.4	1,293.8	3,242.8	8,481.5	19,679.5

See footnotes at end of table.

Table 5. Death rates by age, race, and sex: United States, 1950, 1960, and 1970-81—Con.

[For 1980 and 1981, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population in specified group]

Race, sex, and year	All ages ¹	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
All other												
1981 (est.)	753.8	1,703.3	80.1	35.8	124.1	235.2	412.7	895.7	1,939.4	3,523.6	6,326.8	13,059.5
1980 (est.)	784.8	2,070.3	91.3	35.4	133.6	235.5	410.9	965.4	2,008.0	3,597.0	6,939.7	12,674.0
1979 ²	771.0	2,260.6	95.6	38.3	130.9	241.9	440.6	975.2	1,919.0	3,548.6	6,441.4	11,931.6
1978 ²	790.0	2,405.1	99.9	41.5	133.6	239.4	458.3	1,004.5	2,005.4	3,670.7	6,452.1	12,250.0
1977 ²	798.6	2,455.6	98.5	41.6	137.6	250.9	474.5	1,044.1	2,050.3	3,751.1	6,396.6	12,234.4
1976 ²	812.1	2,670.8	97.5	41.8	144.2	264.3	492.8	1,076.5	2,087.3	3,868.6	6,380.9	12,375.8
1975 ²	823.1	2,733.7	101.4	45.1	159.6	287.2	523.6	1,087.0	2,121.9	4,004.4	6,374.5	12,040.4
1974 ²	859.1	2,831.8	107.7	47.0	171.3	307.0	563.2	1,160.1	2,237.0	4,287.3	6,500.2	12,828.1
1973 ²	904.5	2,916.7	120.9	52.8	184.9	328.2	605.6	1,240.8	2,359.6	4,489.1	6,900.4	13,380.3
1972 ^{2,3}	915.5	3,090.9	120.0	49.7	197.4	344.7	639.2	1,264.5	2,381.0	4,505.2	6,956.8	12,817.9
1971 ²	918.4	3,193.5	126.8	54.2	208.0	352.4	647.3	1,245.2	2,367.5	4,422.3	7,062.6	12,590.0
1970 ²	938.4	3,597.1	134.1	53.7	203.6	348.7	664.3	1,290.9	2,431.1	4,488.4	7,511.1	10,750.3
1960.....	1,008.5	4,626.4	190.8	64.3	158.2	318.6	633.4	1,342.9	2,774.6	4,784.9	7,631.1	13,907.6
1950.....	1,119.4	5,368.4	250.8	86.0	251.3	440.2	805.3	1,706.1	4,126.6	4,205.0	8,039.7	14,473.6
All other, male												
1981 (est.)	889.7	1,956.0	94.9	41.4	183.8	345.2	575.5	1,228.5	2,586.0	4,586.3	7,914.6	15,306.5
1980 (est.)	935.3	2,257.6	98.7	46.1	203.4	359.6	574.2	1,300.7	2,687.6	4,606.3	8,955.6	15,245.9
1979 ²	920.3	2,468.0	103.7	47.1	193.6	366.3	619.7	1,327.6	2,563.9	4,577.3	7,973.5	14,262.7
1978 ²	943.2	2,652.2	109.2	51.8	195.8	357.3	639.5	1,357.3	2,667.3	4,749.5	7,978.2	14,360.3
1977 ²	951.7	2,692.3	109.2	52.4	199.5	377.3	653.8	1,402.2	2,710.2	4,773.4	7,875.1	14,510.7
1976 ²	969.8	2,921.8	108.3	51.8	212.1	393.3	676.4	1,445.1	2,756.7	4,934.5	7,877.8	14,241.8
1975 ²	987.6	2,967.3	109.4	56.2	237.6	438.4	720.9	1,453.8	2,762.7	5,040.0	7,964.9	13,859.3
1974 ²	1,025.1	3,125.9	117.3	58.3	254.3	454.2	756.8	1,527.9	2,901.9	5,341.7	8,069.9	14,572.0
1973 ²	1,075.3	3,222.6	135.4	66.5	271.3	487.5	805.5	1,613.5	3,033.6	5,506.8	8,525.4	15,022.9
1972 ^{2,3}	1,095.2	3,402.2	129.7	59.2	296.6	506.0	860.2	1,656.4	3,047.8	5,531.5	8,610.1	14,459.6
1971 ²	1,090.5	3,534.5	139.3	66.5	310.3	511.2	848.7	1,581.8	2,998.7	5,398.1	8,534.8	13,919.1
1970 ²	1,115.9	4,020.0	144.7	65.0	304.6	504.1	873.5	1,646.1	3,046.6	5,474.4	8,981.0	11,405.2
1960.....	1,152.0	5,189.4	207.3	75.2	213.8	386.4	729.2	1,551.0	3,151.5	5,664.0	8,662.6	15,238.7
1950.....	1,251.1	5,991.6	271.2	97.1	289.9	496.2	860.7	1,857.3	4,348.8	4,794.9	9,029.6	16,022.1
All other, female												
1981 (est.)	630.4	1,443.5	65.0	30.2	65.7	138.5	274.0	623.8	1,417.0	2,725.3	5,301.1	11,926.8
1980 (est.)	648.5	1,879.6	83.8	24.4	66.0	127.3	272.3	690.1	1,452.6	2,834.9	5,585.0	11,366.7
1979 ²	635.7	2,049.7	87.4	29.3	70.4	134.1	290.2	686.1	1,388.3	2,763.1	5,418.2	10,829.8
1978 ²	651.0	2,151.8	90.4	31.2	73.7	137.6	306.2	713.2	1,456.0	2,835.5	5,425.2	11,239.4
1977 ²	659.6	2,213.0	87.6	30.7	78.0	142.0	324.3	747.2	1,499.6	2,948.0	5,372.3	11,008.7
1976 ²	668.6	2,425.3	86.5	31.8	78.8	153.2	339.1	768.0	1,526.9	3,025.4	5,357.7	11,328.6
1975 ²	673.1	2,493.8	93.3	33.8	84.9	157.0	358.3	776.9	1,580.7	3,180.8	5,269.2	10,854.8
1974 ²	707.6	2,541.9	97.9	35.6	92.0	180.5	401.2	848.5	1,671.2	3,442.8	5,417.5	11,802.4
1973 ²	748.4	2,603.8	106.4	39.0	102.7	191.3	438.8	921.9	1,785.2	3,667.4	5,777.4	12,382.3
1972 ^{2,3}	750.9	2,773.9	110.3	40.2	103.0	206.1	454.2	927.3	1,805.9	3,678.9	5,788.0	11,802.6
1971 ²	760.7	2,845.2	114.2	41.8	111.4	216.6	479.8	952.3	1,816.0	3,624.3	5,974.3	11,734.2
1970 ²	775.3	3,169.4	123.3	42.3	108.8	215.7	490.5	979.4	1,886.9	3,675.6	6,392.6	10,288.9
1960.....	872.6	4,067.1	174.4	53.4	106.1	260.0	547.3	1,144.9	2,409.7	3,981.4	6,708.4	12,871.2
1950.....	993.5	4,749.0	230.3	75.0	216.4	390.4	754.0	1,554.9	4,276.3	4,610.7	7,064.7	13,366.8

¹ Figures for age not stated included in "All ages" but not distributed among age groups.² Excludes deaths of nonresidents of the United States.³ Based on a 50-percent sample of deaths.⁴ Based on enumerated population adjusted for age bias in the "All other" population at ages 55-69 years.

NOTE: Rates for 1971-79 have been revised; see Technical notes.

Table 6. Deaths and death rates, by age, race, and sex: United States, 1981-

[Based on a 10-percent sample of deaths. Rates per 100,000 population in specified group. Due to rounding estimates of deaths, figures may not add to totals]

Age	All races			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Number									
All ages.....	1,987,000	1,071,440	915,320	1,740,430	933,120	807,310	246,330	138,320	108,010
Under 1 year.....	42,700	24,730	18,030	30,530	17,610	12,920	12,230	7,120	5,110
1-4 years.....	8,030	4,660	3,370	6,090	3,500	2,590	1,940	1,160	780
5-14 years.....	10,510	6,760	3,750	8,330	5,490	2,840	2,180	1,270	910
15-24 years.....	45,350	33,870	11,510	36,930	27,680	9,250	8,450	6,190	2,260
25-34 years.....	53,150	38,060	15,080	39,960	29,010	10,950	13,180	9,050	4,130
35-44 years.....	60,150	39,160	21,040	45,640	29,820	15,820	14,560	9,340	5,220
45-54 years.....	130,300	82,820	47,490	105,490	67,500	37,990	24,820	15,320	9,500
55-59 years.....	125,080	78,660	46,420	104,850	66,500	38,350	20,230	12,160	8,070
60-64 years.....	167,850	104,300	63,550	143,940	90,160	53,780	23,910	14,140	9,770
65-69 years.....	213,770	129,630	84,140	186,900	114,550	72,350	26,870	15,080	11,790
70-74 years.....	253,160	146,970	106,190	224,710	131,230	93,480	28,450	15,740	12,710
75-79 years.....	259,870	136,830	123,040	235,230	124,310	110,920	24,640	12,520	12,120
80-84 years.....	253,800	115,630	138,170	233,140	105,910	127,230	20,660	9,720	10,940
85 years and over.....	362,090	128,760	233,320	337,920	119,270	218,650	24,160	9,490	14,670
Not stated.....	930	630	300	790	560	230	140	70	70
Rate									
All ages ¹	866.4	961.6	776.5	885.1	973.2	801.3	753.8	889.7	630.4
Under 1 year.....	1,190.4	1,344.8	1,029.1	1,063.0	1,193.9	924.8	1,703.3	1,956.0	1,443.5
1-4 years.....	60.2	68.2	51.7	55.7	62.4	48.7	80.1	94.9	65.0
5-14 years.....	30.7	38.6	22.4	29.5	38.0	20.7	35.8	41.4	30.2
15-24 years.....	107.7	159.2	55.2	104.6	154.6	53.2	124.1	183.8	65.7
25-34 years.....	137.0	197.5	77.2	120.4	174.3	66.2	235.2	345.2	138.5
35-44 years.....	227.4	301.6	156.2	199.1	262.5	136.8	412.7	575.5	274.0
45-54 years.....	578.3	760.7	407.9	533.9	700.2	375.4	895.7	1,228.5	623.8
55-59 years.....	1,078.3	1,437.0	757.8	1,012.1	1,352.5	704.6	1,631.5	2,183.1	1,181.6
60-64 years.....	1,624.1	2,181.1	1,144.4	1,547.9	2,086.1	1,080.6	2,307.9	3,073.9	1,696.2
65-69 years.....	2,407.3	3,283.4	1,706.0	2,340.9	3,215.9	1,636.1	2,998.9	3,906.7	2,311.8
70-74 years.....	3,609.9	4,990.5	2,610.4	3,544.9	4,935.3	2,540.2	4,221.1	5,503.5	3,267.4
75-79 years.....	5,288.4	7,213.0	4,079.6	5,273.0	7,252.6	4,039.3	5,439.3	6,841.5	4,488.9
80-84 years.....	8,226.9	10,867.5	6,836.7	8,261.5	10,963.8	6,855.1	7,855.5	9,918.4	6,630.3
85 years and over.....	15,329.8	18,238.0	14,089.4	15,522.3	18,520.2	14,272.2	13,059.5	15,306.5	11,926.8

¹ Figures for age not stated included in "All ages" but not distributed among age groups.

Table 7. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1980 and 1981

[Based on a 10-percent sample of deaths. Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age											Age- adjusted rate ¹
		All ages	Under 1 year	1-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
All causes.....	1981	866.4	1,190.4	38.9	107.7	137.0	227.4	578.3	1,335.5	2,937.9	6,421.6	15,329.8	572.0
	1980	874.1	1,269.0	39.7	115.6	135.9	225.5	591.6	1,348.0	2,955.3	6,629.0	15,655.7	582.4
Diseases of heart.....390-398,402,404-429	1981	330.6	18.7	1.4	2.5	8.1	43.3	179.1	487.3	1,187.8	2,871.7	7,417.9	196.4
	1980	335.9	21.1	1.3	2.6	8.3	43.3	182.2	498.5	1,205.4	2,982.5	7,708.9	201.3
Rheumatic fever and rheumatic heart disease.....390-398	1981	3.4	0.3	0.0	0.1	0.4	0.7	3.9	8.1	14.3	23.5	22.4	2.5
	1980	3.5	-	0.0	0.2	0.3	1.4	4.4	8.1	16.0	19.4	26.4	2.6
Hypertensive heart disease.....402	1981	9.1	-	-	-	0.2	1.6	7.0	15.7	34.2	74.3	169.8	5.8
	1980	9.7	-	-	0.0	0.3	1.4	6.8	17.2	35.1	81.5	196.1	6.1
Hypertensive heart and renal disease.....404	1981	1.3	-	-	-	0.1	0.2	0.4	0.9	4.5	13.3	39.0	0.7
	1980	1.5	-	-	-	0.0	0.2	0.6	1.1	4.5	15.0	46.2	0.8
Ischemic heart disease.....410-414	1981	243.8	-	-	0.3	3.1	29.6	130.2	364.3	896.4	2,149.6	5,335.7	144.7
	1980	249.6	-	0.0	0.2	3.6	28.9	132.7	374.2	920.2	2,260.7	5,553.2	149.4
Acute myocardial infarction.....410	1981	127.5	-	-	0.3	1.9	20.8	88.1	233.9	540.4	1,080.5	1,799.7	82.3
	1980	132.6	-	0.0	0.1	2.2	19.1	92.5	248.0	562.1	1,133.4	1,942.8	86.1
Other acute and subacute forms of ischemic heart disease.....411	1981	1.9	-	-	0.0	0.1	0.6	1.7	4.4	7.2	11.6	31.3	1.3
	1980	2.0	-	-	-	0.0	0.4	2.2	3.8	7.6	15.7	29.0	1.3
Angina pectoris.....413	1981	0.2	-	-	-	-	0.1	0.1	0.3	0.7	1.5	5.1	0.1
	1980	0.2	-	-	-	0.0	-	0.0	0.5	0.4	1.5	2.6	0.1
Old myocardial infarction and other forms of chronic ischemic heart disease.....412,414	1981	114.2	-	-	0.0	1.1	8.2	40.3	125.8	348.1	1,056.0	3,499.6	61.0
	1980	114.8	-	0.0	0.1	1.3	9.4	37.9	121.9	350.1	1,110.1	3,578.7	61.9
Other diseases of endocardium.....424	1981	3.0	-	0.0	0.2	0.3	0.8	1.4	4.3	11.3	28.3	51.7	1.9
	1980	3.1	0.3	0.0	0.1	0.3	0.7	1.7	4.5	11.2	28.8	56.7	1.9
All other forms of heart disease.....415-423,425-429	1981	70.0	18.4	1.4	1.9	4.1	10.4	36.2	94.0	227.1	582.8	1,799.3	40.9
	1980	68.5	20.9	1.2	2.0	3.8	10.7	36.1	93.5	218.3	577.1	1,830.3	40.5
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....140-208	1981	184.3	1.7	4.4	5.1	14.0	49.1	180.3	439.7	804.7	1,205.3	1,631.7	132.0
	1980	182.4	1.4	4.6	6.5	12.2	48.7	179.2	431.8	811.2	1,229.9	1,526.8	131.6
Malignant neoplasms of lip, oral cavity, and pharynx.....140-149	1981	3.6	-	-	0.0	0.1	0.9	5.6	11.8	13.8	16.1	25.4	2.8
	1980	3.7	-	0.0	0.1	0.1	1.2	5.2	11.5	15.3	19.1	23.7	2.9
Malignant neoplasms of digestive organs and peritoneum.....150-159	1981	48.5	-	0.1	0.2	1.8	7.9	36.2	99.9	213.2	380.7	585.9	32.3
	1980	48.3	0.3	0.2	0.4	1.3	8.2	36.8	103.0	213.3	391.3	536.9	32.7
Malignant neoplasms of respiratory and intrathoracic organs.....160-165	1981	49.0	-	-	0.1	0.9	9.6	58.0	150.1	244.1	250.2	195.6	37.1
	1980	47.5	-	0.0	0.1	0.8	9.5	55.5	143.1	243.2	249.8	172.4	36.1
Malignant neoplasm of breast.....174-175	1981	16.1	-	-	0.0	1.9	9.8	24.4	42.0	61.1	78.9	120.2	12.6
	1980	15.4	-	-	0.0	1.8	9.1	24.7	42.1	55.2	75.1	115.7	12.1
Malignant neoplasms of genital organs.....179-187	1981	20.1	-	-	0.4	1.7	3.9	13.2	36.2	83.6	172.1	262.5	13.1
	1980	20.4	-	0.0	0.5	1.1	4.7	13.2	35.4	88.2	179.4	258.6	13.4
Malignant neoplasms of urinary organs.....188-189	1981	7.7	-	0.1	0.0	0.3	1.3	5.2	15.8	33.3	61.9	97.8	5.1
	1980	7.7	0.3	0.1	0.1	0.3	0.9	4.7	15.1	36.9	63.3	92.3	5.1
Malignant neoplasms of all other and unspecified sites.....170-173,190-199	1981	23.0	0.6	2.2	1.8	3.6	9.0	25.7	51.8	89.9	137.0	201.1	17.2
	1980	22.4	0.6	1.9	2.1	3.2	8.8	24.8	49.5	91.8	136.9	187.3	16.8
Leukemia.....204-208	1981	6.9	0.8	1.8	1.4	1.8	3.1	4.7	11.3	24.5	43.3	77.9	5.0
	1980	7.5	0.3	1.9	2.0	1.8	2.9	5.9	12.5	26.8	50.3	73.4	5.6

See footnotes at end of table.

Table 7. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1980 and 1981—Con.

[Based on a 10-percent sample of deaths. Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age											Age- adjusted rate ¹
		All ages	Under 1 year	1-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
Other malignant neoplasms of lymphatic and hematopoietic tissues.....200-203	1981	9.5	0.3	0.2	0.9	1.8	3.7	7.3	20.7	41.1	65.1	65.2	6.8
	1980	9.4	-	0.5	1.1	1.8	3.3	8.4	19.6	40.5	64.6	66.4	6.9
Cerebrovascular diseases.....430-438	1981	71.7	3.6	0.2	0.9	2.7	8.2	26.7	65.1	211.0	705.3	2,126.2	38.5
	1980	75.0	3.7	0.3	1.1	2.6	8.6	26.1	66.2	221.4	770.8	2,262.5	40.7
Accidents and adverse effects.....E800-E949	1981	44.5	26.2	17.9	55.3	46.2	38.6	37.5	39.7	56.2	103.0	287.5	40.4
	1980	46.9	33.0	17.7	61.0	47.3	35.9	40.1	45.1	58.3	116.3	297.7	42.4
Motor vehicle accidents.....E810-E825	1981	22.8	5.3	8.1	40.6	28.8	22.1	17.9	17.6	19.6	28.6	32.6	22.2
	1980	23.9	7.3	8.5	43.8	29.8	19.6	21.3	17.7	21.6	30.4	26.8	23.2
All other accidents and adverse effects.....E800-E807,E826-E949	1981	21.7	20.9	9.8	14.7	17.4	16.4	19.5	22.0	36.6	74.4	254.9	18.2
	1980	23.0	25.6	9.2	17.2	17.5	16.4	18.7	27.4	36.7	85.9	270.9	19.2
Chronic obstructive pulmonary diseases and allied conditions.....490-496	1981	26.1	1.4	0.3	0.3	0.6	1.7	10.3	43.5	139.2	228.7	277.3	16.7
	1980	24.6	1.4	0.2	0.3	0.5	1.5	10.9	43.0	124.6	224.9	269.1	15.8
Pneumonia and influenza.....480-487	1981	23.7	19.8	0.9	0.6	1.5	3.1	7.3	19.7	53.2	223.7	815.4	12.4
	1980	23.2	28.5	0.9	0.9	1.2	3.1	8.1	17.9	52.7	211.9	840.8	12.4
Diabetes mellitus.....250	1981	15.2	-	0.1	0.2	1.2	3.4	9.1	28.1	63.1	124.6	213.8	9.9
	1980	15.1	0.3	0.1	0.2	1.7	4.0	10.0	25.2	62.4	126.1	222.1	9.9
Chronic liver disease and cirrhosis.....571	1981	12.9	0.8	0.1	0.1	2.7	12.1	30.3	39.3	41.5	31.4	23.7	11.5
	1980	13.8	0.3	0.0	0.2	4.0	13.7	31.5	44.5	42.9	28.6	17.2	12.5
Atherosclerosis.....440	1981	12.5	-	-	-	-	0.2	0.8	4.2	21.5	114.5	635.5	5.2
	1980	13.1	-	-	-	0.1	0.2	1.3	4.3	24.0	129.8	645.1	5.7
Suicide.....E950-E959	1981	12.3	-	0.4	13.0	16.8	15.2	16.5	15.2	17.6	19.5	21.6	11.7
	1980	12.5	-	0.2	12.5	16.2	16.7	17.2	17.0	18.7	20.3	17.6	12.0
Homicide and legal intervention.....E960-E978	1981	10.7	4.5	1.5	15.4	19.6	15.5	11.5	6.8	5.9	4.5	6.4	10.8
	1980	11.0	7.3	1.3	16.5	20.3	14.3	12.9	7.1	5.5	5.7	4.0	11.2
Certain conditions originating in the perinatal period.....760-779	1981	9.2	584.5	0.1	0.0	-	-	-	-	-	-	-	(2)
	1980	9.9	632.2	0.2	0.0	-	-	0.1	-	-	-	-	(2)
Nephritis, nephrotic syndrome, and nephrosis.....580-589	1981	7.6	6.7	0.2	0.3	0.3	1.3	3.2	8.3	25.4	74.6	171.9	4.5
	1980	7.7	7.6	0.0	0.3	0.5	1.7	3.5	9.3	25.4	71.5	175.9	4.6
Congenital anomalies.....740-759	1981	5.8	246.7	3.5	1.3	1.4	1.3	1.3	1.8	1.8	2.8	3.8	(2)
	1980	6.0	257.9	3.2	1.8	1.1	1.2	1.6	2.1	2.7	3.0	3.5	(2)
Septicemia.....038	1981	4.4	8.6	0.2	0.1	0.5	1.0	2.2	7.1	14.1	36.4	85.9	2.8
	1980	4.1	7.6	0.3	0.2	0.5	0.8	2.1	6.2	13.4	32.4	84.0	2.6

¹ For method of computation, see Technical notes.

² Since deaths from these causes occur primarily among infants, rates adjusted to the total population in 1940 are not shown, see table F.

Table 8. Deaths and death rates for 72 selected causes: United States, 1980 and 1981

[Based on a 10-percent sample of deaths. Rates per 100,000 population]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Number		Rate	
	1981	1980	1981	1980
All causes.....	1,987,000	1,986,000	866.4	874.1
Shigellosis and amebiasis.....004,006	30	10	0.0	0.0
Certain other intestinal infections.....007-009	390	340	0.2	0.1
Tuberculosis.....010-018	1,780	1,770	0.8	0.8
Tuberculosis of respiratory system.....010-012	1,500	1,540	0.7	0.7
Other tuberculosis.....013-018	280	230	0.1	0.1
Whooping cough.....033	10	10	0.0	0.0
Streptococcal sore throat, scarlatina, and erysipelas.....034-035	10	10	0.0	0.0
Meningococcal infection.....036	600	410	0.3	0.2
Septicemia.....038	10,160	9,230	4.4	4.1
Acute poliomyelitis.....045	30	20	0.0	0.0
Measles.....055	-	10	-	0.0
Viral hepatitis.....070	760	790	0.3	0.3
Syphilis.....090-097	190	180	0.1	0.1
All other infectious and parasitic diseases.....001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	4,120	3,730	1.8	1.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....140-208	422,720	414,320	184.3	182.4
Malignant neoplasms of lip, oral cavity, and pharynx.....140-149	8,230	8,500	3.6	3.7
Malignant neoplasms of digestive organs and peritoneum.....150-159	111,220	109,730	48.5	48.3
Malignant neoplasms of respiratory and intrathoracic organs.....160-165	112,370	108,000	49.0	47.5
Malignant neoplasm of breast.....174-175	36,940	34,940	16.1	15.4
Malignant neoplasms of genital organs.....179-187	46,080	46,250	20.1	20.4
Malignant neoplasms of urinary organs.....188-189	17,750	17,580	7.7	7.7
Malignant neoplasms of all other and unspecified sites.....170-173,190-199	52,750	50,990	23.0	22.4
Leukemia.....204-208	15,710	17,060	6.9	7.5
Other malignant neoplasms of lymphatic and hematopoietic tissues.....200-203	21,670	21,270	9.5	9.4
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....210-239	6,070	5,710	2.6	2.5
Diabetes mellitus.....250	34,750	34,230	15.2	15.1
Nutritional deficiencies.....260-269	2,030	2,300	0.9	1.0
Anemias.....280-285	3,540	3,420	1.5	1.5
Meningitis.....320-322	1,260	1,320	0.5	0.6
Major cardiovascular diseases.....390-448	978,360	989,690	426.7	435.7
Diseases of heart.....390-398,402,404-429	758,100	763,060	330.6	335.9
Rheumatic fever and rheumatic heart disease.....390-398	7,740	7,950	3.4	3.5
Hypertensive heart disease.....402	20,900	22,100	9.1	9.7
Hypertensive heart and renal disease.....404	3,050	3,340	1.3	1.5
Ischemic heart disease.....410-414	559,000	566,930	243.8	249.6
Acute myocardial infarction.....410	292,420	301,210	127.5	132.6
Other acute and subacute forms of ischemic heart disease.....411	4,360	4,520	1.9	2.0
Angina pectoris.....413	450	370	0.2	0.2
All other forms of chronic ischemic heart disease.....412,414	261,770	260,830	114.2	114.8
Other diseases of endocardium.....424	6,920	7,030	3.0	3.1
All other forms of heart disease.....415-423,425-429	160,490	155,710	70.0	68.5
Hypertension with or without renal disease.....401,403	7,850	7,140	3.4	3.1
Cerebrovascular diseases.....430-438	164,330	170,420	71.7	75.0
Intracerebral and other intracranial hemorrhage.....431-432	20,810	20,900	9.1	9.2
Cerebral thrombosis and unspecified occlusion of cerebral arteries.....434,0,434.9	31,060	34,510	13.5	15.2
Cerebral embolism.....434.1	740	710	0.3	0.3
All other and late effects of cerebrovascular diseases.....430,433,435-438	111,720	114,300	48.7	50.3
Atherosclerosis.....440	28,750	29,830	12.5	13.1
Other diseases of arteries, arterioles, and capillaries.....441-448	19,330	19,240	8.4	8.5
Acute bronchitis and bronchiolitis.....466	620	590	0.3	0.3
Pneumonia and influenza.....480-487	54,420	52,720	23.7	23.2
Pneumonia.....480-486	51,230	50,130	22.3	22.1
Influenza.....487	3,190	2,590	1.4	1.1
Chronic obstructive pulmonary diseases and allied conditions.....490-496	59,870	55,810	26.1	24.6
Bronchitis, chronic and unspecified.....490-491	3,930	3,940	1.7	1.7
Emphysema.....492	13,560	14,130	5.9	6.2
Asthma.....493	3,150	2,500	1.4	1.1
Other chronic obstructive pulmonary diseases and allied conditions.....494-496	39,230	35,240	17.1	15.5
Ulcer of stomach and duodenum.....531-533	6,930	5,750	3.0	2.5
Appendicitis.....540-543	680	650	0.3	0.3
Hernia of abdominal cavity and intestinal obstruction without mention of hernia.....550-553,560	4,810	5,430	2.1	2.4
Chronic liver disease and cirrhosis.....571	29,520	31,330	12.9	13.8
Cholelithiasis and other disorders of gallbladder.....574-575	2,950	3,110	1.3	1.4
Nephritis, nephrotic syndrome, and nephrosis.....580-589	17,530	17,390	7.6	7.7
Acute glomerulonephritis and nephrotic syndrome.....580-581	280	340	0.1	0.1

Table 8. Deaths and death rates for 72 selected causes: United States, 1980 and 1981—Con.

[Based on a 10-percent sample of deaths. Rates per 100,000 population]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Number		Rate	
	1981	1980	1981	1980
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified.....582-583,587	1,740	2,450	0.8	1.1
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause.....584-586,588-589	15,510	14,600	6.8	6.4
Infections of kidney.....590	2,430	2,640	1.1	1.2
Hyperplasia of prostate.....600	530	810	0.2	0.4
Complications of pregnancy, childbirth, and the puerperium.....630-676	280	250	0.1	0.1
Pregnancy with abortive outcome.....630-638	50	50	0.0	0.0
Other complications of pregnancy, childbirth, and the puerperium.....640-676	230	200	0.1	0.1
Congenital anomalies.....740-759	13,250	13,730	5.8	6.0
Certain conditions originating in the perinatal period.....760-779	21,070	22,570	9.2	9.9
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome....767-769	6,540	7,500	2.9	3.3
Other conditions originating in the perinatal period.....760-766,770-779	14,530	15,070	6.3	6.6
Symptoms, signs, and ill-defined conditions.....780-799	29,420	29,130	12.8	12.8
All other diseases.....Residual	117,370	112,510	51.2	49.5
Accidents and adverse effects.....E800-E949	102,130	106,550	44.5	46.9
Motor vehicle accidents.....E810-E825	52,300	54,200	22.8	23.9
All other accidents and adverse effects.....E800-E807,E826-E949	49,830	52,350	21.7	23.0
Suicide.....E950-E959	28,100	28,290	12.3	12.5
Homicide and legal intervention.....E960-E978	24,600	25,090	10.7	11.0
All other external causes.....E980-E999	3,460	3,510	1.5	1.5

Symbols

- Data not available
- ... Category not applicable
- Quantity zero
- 0.0 Quantity more than zero but less than 0.05
- Z Quantity more than zero but less than 500 where numbers are rounded to thousands
- * Figure does not meet standards of reliability or precision

Technical notes

Nature and sources of data

All data for 1980 and 1981 in this report are provisional. Data for the United States as a whole refer to events occurring within the United States; other data refer to events within the reporting areas shown.

Beginning with 1970, final birth and mortality statistics exclude data for births and deaths to nonresidents of the United States. Data for nonresidents are included in provisional data for 1980 and 1981.

Provisional or estimated figures for births, marriages, divorces, and deaths, except data estimated from the Current Mortality Sample, summarize data from monthly reports of the numbers of birth, marriage, divorce, and death certificates received in registration offices between two dates a month apart regardless of when the events occurred. Final figures are counts of events occurring in the specified year.

Natality

Monthly estimates of births for the entire United States are based on the monthly reports adjusted for observed differences from final monthly figures. State figures are not adjusted in this manner.

Marriages

Monthly estimates of marriages for the entire United States are based on the monthly reports adjusted for observed differences from final monthly figures. State figures are not adjusted in this manner. For most States, data represent marriages performed. For some counties of Arizona provisional data are marriage licenses issued; for New Mexico and New York City all data are marriage licenses issued.

Beginning with 1978 nonlicensed (confidential) marriages registered in California are included in marriage totals and rates. Nonlicensed California marriages have increased rapidly since reporting began, totaling 2,857 in 1973; 10,555 in 1974; 19,061 in 1975; 30,125 in 1976; 32,008 in 1977; 37,462 in 1978; 41,961 in 1979; 46,001 in 1980; and 53,754 in 1981. These nonlicensed California marriages have not been included in national totals or rates for years prior to 1978. Further discussion of nonlicensed marriages is given in the final marriage statistics report for 1978.⁵

Divorces

Provisional divorce data including reported annulments are shown in table 3 for the areas reporting

divorce data monthly. Divorce figures for the United States for 1980 and 1981 are estimated from a summary of monthly reports from 47 States and the District of Columbia. These areas contained over 95 percent of the population of the United States as enumerated in 1980.

Mortality

All mortality figures exclude fetal deaths. Final mortality statistics for 1972 are based on a 50-percent sample of deaths. For all other years final data are based on all records received.

Current Mortality Sample

Deaths and death rates for 1980 and 1981 by cause, age, race, and sex were estimated from the Current Mortality Sample. The Current Mortality Sample is a 10-percent systematic sample of death certificates received each month in the vital statistics offices in the 50 States, the District of Columbia, and the independent registration area of New York City. The sample for each of these areas consists of one-tenth of the death certificates received in the office between a given date and the same date of the following month. All death certificates received during the 1-month period are sampled regardless of the month or year in which the death occurred. As a result, the monthly sample is not strictly comparable to a sample on a month-of-occurrence basis. The proportion of death certificates received in the samples for each month of 1981 representing deaths occurring in the current month and those occurring in other months are shown in table I.

Table I. Percent of death certificates received in the sample each month by month of occurrence: 1981

Month	Deaths occurring in—		
	Same month	Previous month	All other months
January.....	72.5	15.6	11.9
February.....	67.6	18.6	13.8
March.....	73.8	15.7	10.5
April.....	71.3	16.0	12.7
May.....	70.9	14.4	14.8
June.....	70.7	16.0	13.3
July.....	71.2	14.6	14.2
August.....	69.1	14.9	16.0
September.....	71.1	16.2	12.6
October.....	72.9	18.6	8.5
November.....	71.5	19.1	9.4
December.....	71.4	20.3	8.3

NOTE: A list of references follows the text.

Because of the way in which death certificates are processed in California, this State contributes a high proportion of the certificates for deaths not occurring in the sample month. For the sample exclusive of California, the percent of the sample deaths occurring in the current month constitutes about 78 percent of the total as opposed to 71 percent of the entire sample. As for the year of occurrence, 95.4 percent of the 197,197 transcripts in the 1981 sample were for deaths occurring in 1981 and 4.6 percent for deaths occurring in 1980.

Correction for bias and adjustment to provisional counts.—The Current Mortality Sample is selected at a specified time each month. Complete information concerning the underlying cause of death is sometimes not available in the State offices when the sample is drawn but is available later when copies of the final death certificates are processed. As a result, estimates based on sample counts for certain causes are recurrently biased estimates of final counts. Comparisons of sample and final counts for previous years have shown that these biases are primarily associated with certain cause-of-death groups.

Due to the introduction of the Ninth Revision in 1979, some modification was made in the rules for selection of a cause of death to be corrected for bias. These rules and the methodology used in computing the adjusted weights are described in the Annual Summary for 1978.⁶ Because data required to calculate new weights were not available, the adjusted weights used for 1979 data were also used for the 1980 and 1981 samples. These adjusted weights are shown in table II. The sample deaths for causes of death selected for bias correction were corrected by multiplying the sample frequency by the adjusted weights. No causes of death for infants were corrected for bias.

Table II. Causes of death corrected for bias and adjusted weights for all ages: 1981

Cause of death ¹	Adjusted weight (all ages)
Malignant neoplasms of all other and unspecified sites.....170-173, 190-199	9.79
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature..... 210-239	8.79
Intracerebral and other intracranial hemorrhage..... 431-432	10.28
Other complications of pregnancy, childbirth, and the puerperium 640-676	8.18
Symptoms, signs, and ill-defined conditions.. 780-799	7.79
Motor vehicle accidents..... E810-E825	10.35
Suicide..... E950-E959	10.66
Homicide and legal intervention..... E960-E978	10.44
All other external causes E980-E999	11.02

¹ Causes of death eligible to have an adjusted weight were those that had 50 or more deaths based on final data for 1978.

NOTE: A list of references follows the text.

Sampling variability.—Since the estimates of deaths and death rates presented in this report (with the exception of total deaths and deaths under 1 year) are based on a sample of the death certificates, they are subject to sampling variability. The estimated percent error shown in this report is a measure of the sampling error of the estimated number of deaths (or of the estimated death rate) expressed as a percent of the estimate. The chances are about 2 out of 3 that the percent difference between an estimate and the result of a complete count is less than the percent error shown. The chances are about 19 out of 20 that the percent difference is less than twice the percent error.

Two methods are used for estimating percent errors—one for the ratio estimates for the causes of death corrected for bias and the other for estimates for the remaining causes of death or for given age-race-sex groups. The percent error of a ratio estimate for a given cause of death corrected for bias for all ages is computed as follows:

$$V = 300 \sqrt{\frac{1}{10} \left(\frac{1}{x} - \frac{1}{D} \right) + \left(\frac{1}{Y} - \frac{1}{M} \right)}$$

where

- V = percent error of the estimate X
- X = the estimated number of deaths (or estimated death rate) in a given cause or age-race-sex group
- x = the number of deaths in the sample from the given cause
- D = 197,197, the total number of death certificates in the sample for 1981
- Y = the final number of deaths from the given cause in the 3 years—1976, 1977, and 1978 combined
- M = 5,736,825, the final count of all deaths occurring in the 3 years—1976, 1977, and 1978 combined.

The percent errors for the remaining estimates for given causes of death not requiring a correction for bias or for a given age-race-sex group are computed as follows:

$$V = 300 \sqrt{\frac{1}{X} - \frac{1}{N}}$$

where

- V = the percent error of the estimate X
- X = the estimated number of deaths from a given cause or age-race-sex group
- N = 1,987,000, the provisional number of registered deaths in 1981.

The percent error due to sampling may be obtained by using the above formula where X is the estimated number of deaths for a given group. For easy reference, the percent errors ascribable to sampling for estimates based on several levels in the number of deaths are shown in table III.

Table III. Percent errors for estimated numbers of deaths from the Current Mortality Sample

Estimated number of deaths	Percent error	Estimated number of deaths	Percent error
10	94.9	900	10.0
20	67.1	1,000	9.5
50	42.4	2,000	6.7
100	30.0	5,000	4.2
200	21.2	10,000	3.0
300	17.3	20,000	2.1
400	15.0	50,000	1.3
500	13.4	100,000	0.9
600	12.2	200,000	0.6
700	11.3	500,000	0.4
800	10.6	1,000,000	0.2

Cause-of-death classification

The mortality statistics presented here are compiled in accordance with the World Health Organization regulations, which specify that member nations classify causes of death in accordance with the current revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death.

Causes of death for 1979–81 were classified according to the Ninth Revision International Classification of Diseases.⁷ For earlier years causes of death were classified according to the revision then in use, as follows: 1968–78, Eighth Revision; 1958–67, Seventh Revision; 1949–57, Sixth Revision. Changes in classification of causes of death due to these revisions may result in discontinuities in cause-of-death trends. Consequently, cause-of-death comparisons between revisions require consideration of the comparability ratios and, where available, estimates of their standard errors. For information about comparability ratios between the Eighth and Ninth Revisions, see *Monthly Vital Statistics Report*.⁸

For information about comparability ratios between the Seventh and Eighth Revisions, see *Vital and Health Statistics*.⁹ For a list of other reports on the effects of revisions of the International Lists on mortality statistics tabulated by cause, see *Vital Statistics—Special Reports*.¹⁰

Besides specifying the Classification, the World Health Organization regulations outline the form of

medical certification and the coding procedures to be used. In general, when more than one cause of death is reported, the cause designated by the certifying physician as the underlying cause of death is the cause tabulated.

Causes of death for data presented in this publication were coded by procedures outlined in issues of Part 2a of NCHS *Instruction Manual, Vital Statistics, Instructions for Classifying the Underlying Cause of Death*.

Cause-of-death ranking

Cause-of-death ranking is based on the List of 72 Selected Causes of Death, adapted from one of the special lists for mortality tabulations recommended by the World Health Organization for use with the Ninth Revision of the International Classification of Diseases. Two group titles—Major cardiovascular diseases and Symptoms, signs, and ill-defined conditions—are not ranked. In addition, category titles that begin with the words “other” and “all other” are not ranked. The remaining category titles are ranked according to the number of deaths for 1981 to determine the leading causes of death. When one of the titles that represents a subtotal is ranked (for example, Tuberculosis), its component parts (in this case, Tuberculosis of respiratory system and Other tuberculosis) are not ranked.

Age-adjusted rates

The age-adjusted rates presented in this report were computed by the direct method, that is, by applying the age-specific death rates for a given cause of death to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. The age-adjusted rates were based on 10-year age groups. Rates by cause for 1980 and 1981 were also based on 10-year age groups except that the age group 1–14 years was used instead of 1–4 years and 5–14 years. It is important not to compare age-adjusted death rates with crude rates.

Seasonal adjustment

The method of seasonal adjustment used for birth, fertility, and marriage rates is described in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Nov. 1965, published by the U.S. Bureau of the Census. Marriage rates were adjusted for monthly variation in the number of specified days of the week (Sundays, Mondays, and so forth) because marriages are more likely on some days than on others.

Population bases for computing rates

The populations used for computing rates shown in this report (furnished by the U.S. Bureau of the Census) represent the population residing in the specified area. Populations for 1940, 1950, 1960, and 1970 were enumerated as of April 1; all other populations were estimated as of July 1.

The estimated populations for 1980 and 1981, published by the U.S. Bureau of the Census,¹¹ were based on the 1980 census enumeration and were the same as those used for the *Monthly Vital Statistics Report* for each month from January through Decem-

ber 1981. Rates for 1971-79 have been revised based on populations for those years which are consistent with the 1980 census levels.¹¹ The 1980 census enumerated approximately 5.5 million persons more than were previously estimated for April 1, 1980.¹²

All rates shown here for 1971-80 are comparable with those shown for 1981. However, rates for 1971-80 are not comparable with those published in the Annual Summary for 1980¹ and with previously published final data for 1971-79, which were based on the 1970 census enumeration.

Infant mortality rates are based on live births. For an explanation of the method used in computing infant mortality rates adjusted for the changing numbers of births, see *Vital Statistics—Special Reports*.¹³

NOTE: A list of references follows the text.

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