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Monthly

VITAL STATISTICS REPORT

Provisional Statistics

ANNUAL SUMMARY FOR THE UNITED STATES, 1978

**BIRTHS, DEATHS,
MARRIAGES,
AND DIVORCES**

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
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SYMBOLS

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ANNUAL SUMMARY, 1978

VITAL STATISTICS OF THE UNITED STATES

Item	Rate per 1,000 population							
	1978 ¹	1977	1976	1975	1974	1973	1972	1971
Births	15.3	15.4	14.8	14.8	14.9	14.9	15.6	17.2
Deaths	8.8	8.8	8.9	8.9	9.2	9.4	9.4	9.3
Natural increase	6.5	6.6	5.9	5.9	5.7	5.5	6.2	7.9
Marriages	10.3	10.1	10.0	10.1	10.5	10.9	11.0	10.6
Divorces (est.)	5.2	5.0	5.0	4.9	4.6	4.4	4.1	3.7

¹Provisional.

The provisional totals of births, marriages, divorces, and deaths reported here monthly have been summarized for the entire year. These preliminary totals show more births, marriages, divorces, and deaths and fewer infant deaths in 1978 than in 1977.

BIRTHS

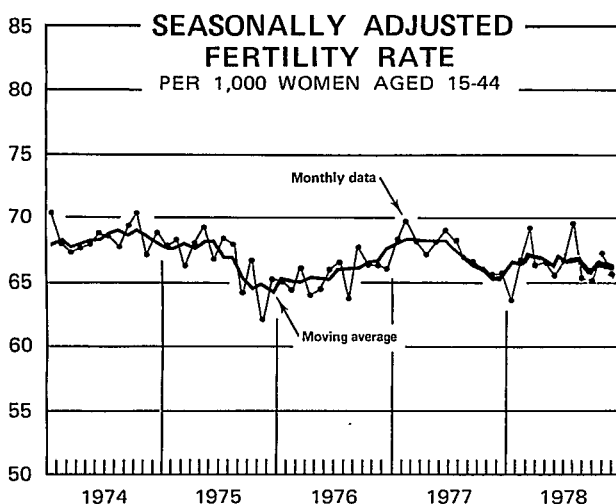
The estimated 3,329,000 births occurring in the United States in 1978 was very close to the final number in 1977. During this period both the birth rate and the fertility rate declined slightly. The birth rate declined less than 1 percent, and the fertility rate declined 2 percent. In 1978 the birth rate was 15.3 live births per 1,000 population, down from the final rate of 15.4 in 1977.

The fertility rate declined from a final rate of 67.8 live births per 1,000 women aged 15-44 years in 1977 to 66.4 in 1978. The fertility rate has declined each year since 1958 except 1969, 1970, and 1977. Although the 1978 fertility rate did not reach a record low, it was second only to the rate of 65.8 for 1976.

The declining rate of childbearing during the 1970's has prevented the large increases in the number of births that could have resulted from the increasing number of women maturing from the postwar baby boom. However, the potential for increases still exists. According to projections prepared by the U.S. Bureau of the Census, the number of women in childbearing ages (assumed to be 15-44 years) will increase nearly 4 percent by 1980 and an additional 6 percent by 1985.

The projected increase will be greater among women aged 30-39 years than among women aged 20-29 years (the ages of highest fertility) which may help to hold down increases in the number of births. The number of women aged 20-29 years will increase 4 percent by 1980 and an additional 3 percent by 1985 compared with increases of 8 and 17 percent for women 30-39 years over the same periods.

Provisional data by place of occurrence show that the number of births increased in four of the nine geographic divisions, all located in the western part of the United States. The birth rate increased in the Pacific Division and remained constant in the West North Central and Mountain Divisions. The number of births increased in 23 States, and the birth rate increased in 13 States and remained constant in 7 States.



MONTHLY VITAL STATISTICS REPORT

Table A. LIVE BIRTHS, BIRTH RATES, AND FERTILITY RATES, BY MONTH: UNITED STATES, 1977 AND 1978

[Rates on an annual basis. Birth rates per 1,000 population and fertility rates per 1,000 women aged 15-44 years. Data are provisional unless otherwise specified]

Month	Number			Birth rate			Fertility rate		
	1978	1977	1977 (final)	1978	1977	1977 (final)	1978	1977	1977 (final)
Total	3,329,000	3,313,000	3,326,632	15.3	15.3	15.4	66.4	67.4	67.8
January	262,000	274,000	271,480	14.2	15.0	14.8	62.1	66.3	65.7
February	251,000	256,000	253,322	15.0	15.5	15.3	63.8	68.4	67.7
March	285,000	276,000	281,027	15.4	15.1	15.3	65.1	66.5	67.8
April	260,000	259,000	262,403	14.6	14.6	14.8	64.7	64.4	65.3
May	272,000	273,000	274,767	14.7	14.9	15.0	64.5	65.6	66.0
June	265,000	272,000	273,321	14.8	15.3	15.4	64.5	67.5	67.8
July	296,000	297,000	291,087	16.0	16.2	15.8	65.3	71.2	69.7
August	312,000	296,000	299,200	16.8	16.1	16.3	66.3	70.8	71.5
September	289,000	290,000	292,435	16.1	16.3	16.4	66.7	71.6	72.1
October	282,000	282,000	285,850	15.2	15.3	15.5	66.6	67.3	68.1
November	274,000	262,000	269,025	15.2	14.7	15.1	66.6	64.5	66.2
December	281,000	275,000	272,715	15.1	14.9	14.8	65.4	65.4	64.8

NATURAL INCREASE

During 1978 the growth of the population due to natural increase (the excess of births over deaths) amounted to 1,405,000 persons. The rate of natural increase was 6.5 persons per 1,000 population compared with a final rate of 6.6 for 1977. This decline was due to the decline in the birth rate.

DEATHS

During 1978 an estimated 1,924,000 deaths occurred in the United States. The provisional crude death rate for 1978 (882.3 deaths per 100,000 population) was 0.5 percent higher than the final rate for 1977 (878.1 per 100,000).

Each month, from January to April, had a

Table B. SEASONALLY ADJUSTED BIRTH AND FERTILITY RATES, BY MONTH: UNITED STATES, 1977 AND 1978

[Rates on an annual basis. Birth rates per 1,000 population and fertility rates per 1,000 women aged 15-44 years. Data are provisional unless otherwise specified]

Month	Birth rate			Fertility rate		
	1978	1977	1977 (final)	1978	1977	1977 (final)
January	14.6	15.4	15.3	63.8	68.3	67.7
February	15.3	15.7	15.5	66.8	69.7	68.7
March	15.8	15.4	15.7	69.2	68.2	69.2
April	15.2	15.3	15.4	66.3	67.2	68.2
May	15.3	15.5	15.6	66.6	68.3	68.6
June	15.0	15.6	15.5	65.4	69.0	68.5
July	15.3	15.5	15.3	66.7	68.2	67.2
August	16.0	15.2	15.5	69.7	66.9	67.9
September	15.0	15.2	15.3	65.3	66.6	67.3
October	15.0	15.0	15.3	65.1	66.0	67.1
November	15.5	15.0	15.3	67.3	65.7	67.0
December	15.2	15.0	15.0	65.8	65.8	65.5

higher estimated death rate in 1978 than the corresponding final rate for that month in 1977. This is attributable to an influenza outbreak during the early part of 1978 in contrast to the absence of an outbreak for the corresponding period in 1977.^{1,2}

While the crude death rate increased slightly between 1977 and 1978, the age-adjusted death rate decreased by 1.1 percent. The rate for 1978 was 605.5 deaths per 100,000 population compared with 612.3 for 1977. During 1968-78 the age-adjusted death rate decreased by 18.6 percent. Age-adjusted death rates control for changes and variations in the age composition of the population. Therefore, they are better indicators than crude death rates in showing changes in the risk of dying over a period of time between color-sex groups within the population and among causes of death.

Expectation of Life

The estimated expectation of life at birth in 1978 was 73.3 years for the total population. While this was the highest life expectancy ever attained in the United States, the gain of 0.1 years between 1977 and 1978 was the smallest gain since 1971-72 when life expectancy remained unchanged. For the four color-sex groups the estimated life expectancies at birth in 1978 were as follows: white females, 77.7 years; all other females, 73.7 years; white males, 70.2 years; and all other males, 65.3 years. The expectation of life at birth represents the average number of years that a group of infants would live if they were to experience throughout life the age-specific death rates prevailing during the year of their birth.

Based on the respective annual age-specific death rates, the expectations of life at birth for the total population for 1968-78 were as follows:

1978 (est.)	73.3	1972	71.1
1977	73.2	1971	71.1
1976	72.8	1970	70.8
1975	72.5	1969	70.5
1974	71.9	1968	70.2
1973	71.3		

¹Center for Disease Control: Reported morbidity and mortality in the United States, 1977. *Morbidity and Mortality Weekly Report*, Annual Summary, Vol. 26, No. 53. DHEW Pub. No. (CDC) 78-8241. Atlanta, Ga., Sept. 1978.

²Center for Disease Control: *Morbidity and Mortality Weekly Report*, Vol. 27, No. 11. DHEW Pub. No. (CDC) 78-8017. Atlanta, Ga., Mar. 1978.

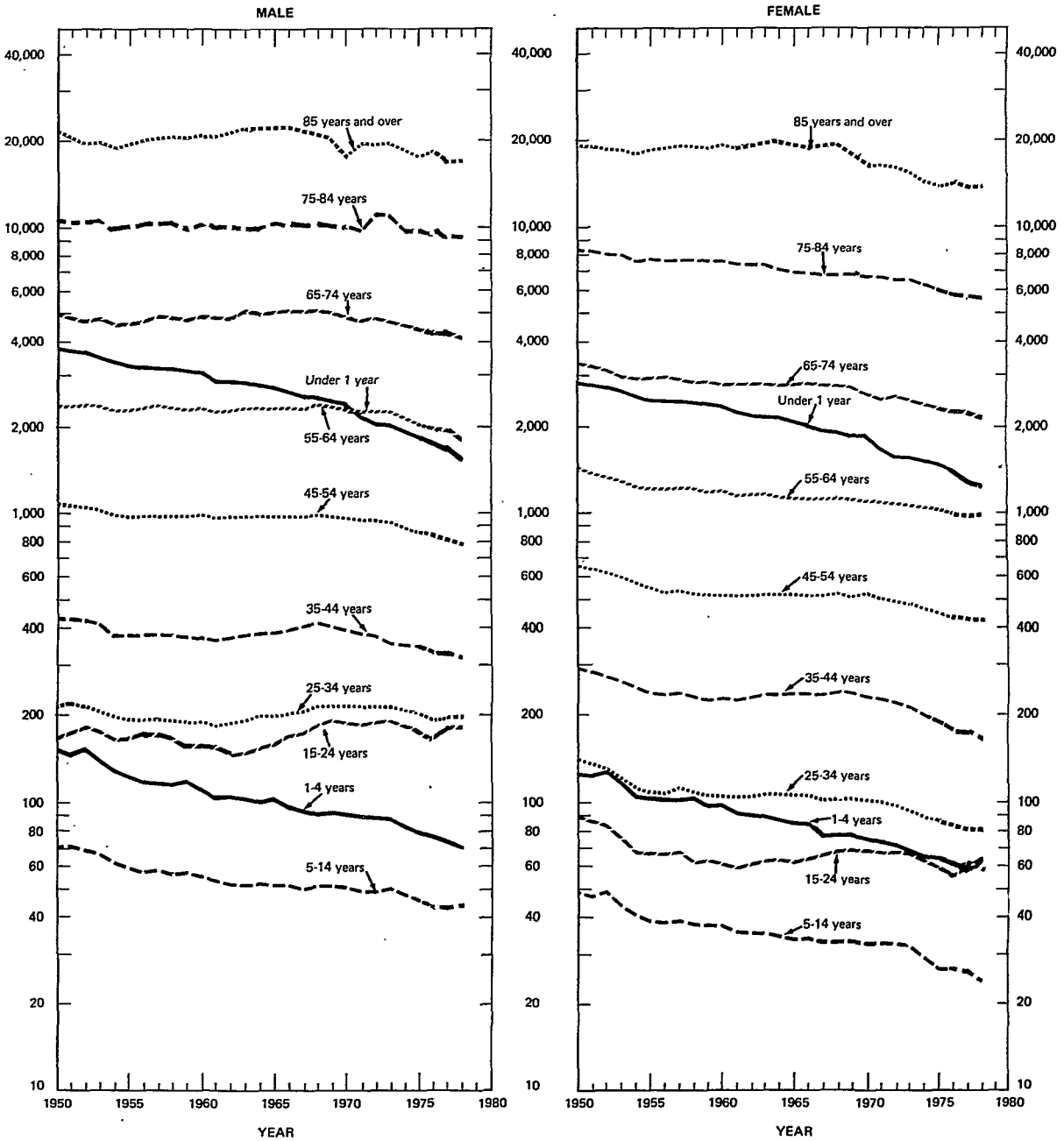
Table C. DEATHS AND DEATH RATES, BY MONTH: UNITED STATES, 1977 AND 1978

[Rates on an annual basis per 1,000 population. Data are provisional unless otherwise specified]

Month	Number			Rate		
	1978	1977	1977 (final)	1978	1977	1977 (final)
Total	1,924,000	1,898,000	1,899,597	8.8	8.8	8.8
January	189,000	173,000	173,237	10.3	9.5	9.5
February	169,000	161,000	153,250	10.1	9.7	9.3
March	170,000	166,000	166,271	9.2	9.0	9.1
April	161,000	157,000	155,722	9.0	8.8	8.8
May	158,000	156,000	157,732	8.6	8.5	8.6
June	153,000	150,000	148,936	8.5	8.5	8.4
July	153,000	159,000	157,827	8.3	8.6	8.6
August	150,000	149,000	150,456	8.1	8.1	8.2
September	150,000	147,000	146,901	8.3	8.3	8.2
October	157,000	159,000	160,252	8.4	8.6	8.7
November	154,000	153,000	154,891	8.5	8.6	8.7
December	162,000	168,000	174,122	8.7	9.1	9.4

DEATH RATES PER 100,000 POPULATION, BY AGE AND SEX: UNITED STATES, 1950-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data]



The life expectancies for 1968-73 have been revised; see Explanatory Notes.

Death Rates by Age, Color, and Sex

While the crude death rate increased between 1977 and 1978, death rates for most age groups decreased. The slight increase in the crude death rate between 1977 and 1978 was attributable to an increase in the average age of the U.S. population.

Table D. DEATH RATES BY AGE: UNITED STATES, 1977 AND 1978

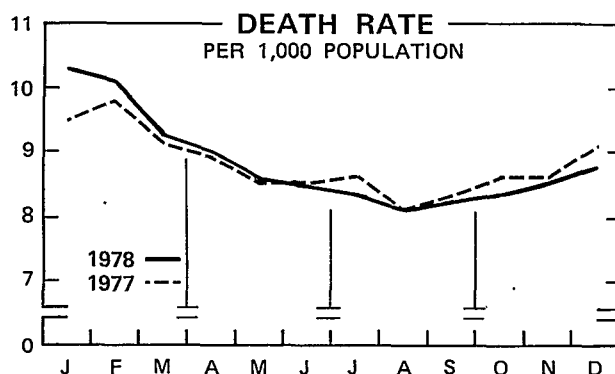
[For 1978, based on a 10-percent sample of deaths. Rates per 100,000 population in specified group]

Age	1978 (est.)	1977 (final)	Percent difference
All ages ¹	882.3	878.1	0.5
Under 1 year.....	1,417.0	1,485.6	-4.6
1-4 years.....	66.9	68.8	-2.8
5-14 years.....	34.7	34.6	0.3
15-24 years.....	120.3	117.1	2.7
25-34 years.....	136.8	136.2	0.4
35-44 years.....	239.2	247.5	-3.4
45-54 years.....	610.3	620.7	-1.7
55-64 years.....	1,414.2	1,434.9	-1.4
65-74 years.....	3,018.1	3,055.6	-1.2
75-84 years.....	7,161.0	7,181.9	-0.3
85 years and over.....	14,679.1	14,725.9	-0.3

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

Color differentials.—In 1978 the age-adjusted death rate for the population of races other than white (785.8 per 100,000 population) was 35.2 percent higher than the rate for the white population (581.1). Death rates for each age group under 85 years were higher for all other races than those for the white population.

Sex differentials.—The estimated age-adjusted death rate for 1978 for the male population (801.3 per 100,000 population) was 79.1 percent higher than the rate for the female population (447.4). For 1978 death rates were higher for males than for females in each age group.



Major Causes of Death

Leading causes of death in the United States have been ranked for 1978. Deaths assigned to the 15 leading causes accounted for 87.1 percent of the total number of estimated deaths in 1978.

Table E. DEATH RATES FOR 15 LEADING CAUSES OF DEATH: UNITED STATES, 1978

[Based on a 10-percent sample of deaths. Rates per 100,000 population. See table 8 for category numbers of causes of death]

Rank	Cause of death	Death rate	Percent of total deaths
...	All causes	882.3	100.0
1	Diseases of heart	333.9	37.8
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....	181.6	20.6
3	Cerebrovascular diseases.....	79.1	9.0
4	Accidents.....	49.5	5.6
5	Influenza and pneumonia	26.7	3.0
6	Diabetes mellitus.....	15.0	1.7
7	Cirrhosis of liver.....	13.7	1.6
8	Arteriosclerosis	13.4	1.5
9	Suicide.....	12.6	1.4
10	Certain causes of mortality in early infancy.....	10.1	1.1
11	Bronchitis, emphysema, and asthma	10.0	1.1
12	Homicide.....	9.7	1.1
13	Congenital anomalies	5.9	0.7
14	Nephritis and nephrosis	3.7	0.4
15	Septicemia	3.6	0.4
...	All other causes.....	113.8	12.9

MONTHLY VITAL STATISTICS REPORT

The list of the leading causes for 1978 remained unchanged from the list based on final data for 1977.

Age-adjusted death rates are shown for 13 of the 15 leading causes. Since deaths from the other two causes (Congenital anomalies and Certain causes of mortality in early infancy) occur almost entirely at ages under 1 year, age-adjusted rates for these causes are not shown.

The age-adjusted rates were lower for 8 of the 13 leading causes for 1978 than they were for 1977. These causes were Diseases of heart; Cerebrovascular diseases; Diabetes mellitus; Cirrhosis of liver; Arteriosclerosis; Suicide; Nephritis and nephrosis; and Bronchitis, emphysema, and asthma. The decrease in the rate for Bronchitis, emphysema, and asthma may be associated with changes in medical classification rather than with reductions in the risk of dying from this cause.

The age-adjusted rates were higher for 5 of the 13 leading causes for 1978 than they were

for 1977. These causes were Malignant neoplasms, Accidents, Influenza and pneumonia, Homicide, and Septicemia.

Diseases of heart.—An estimated 728,190 deaths from Diseases of heart (the leading cause of death in the United States) occurred in 1978. This accounted for 37.8 percent of all deaths. The provisional age-adjusted death rate for 1978 (207.3 deaths per 100,000 population) was 1.5 percent lower than the final rate for 1977 (210.4). During 1968-78 the age-adjusted rate for Diseases of heart declined 22.8 percent with decreases occurring between each year.

Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.—In 1978 there were an estimated 396,060 deaths (20.6 percent of all deaths) from Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, the second leading cause of death. The provisional age-adjusted death rate for 1978 (133.2 deaths per 100,000 population) was slightly higher than the final rate for 1977

Table F. AGE-ADJUSTED DEATH RATES FOR 15 LEADING CAUSES OF DEATH: UNITED STATES, 1968, 1977, AND 1978

[Rates per 100,000 population. For method of computation, see Explanatory Notes]

Rank	Cause of death	1978 (est.)	1977	1968
...	All causes.....	605.5	612.3	743.8
1	Diseases of heart.....	207.3	210.4	268.5
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....	133.2	133.0	129.2
3	Cerebrovascular diseases.....	44.4	48.2	71.3
4	Accidents.....	45.3	43.8	55.0
...	Motor vehicle accidents.....	24.0	22.4	28.4
...	All other accidents.....	21.3	21.4	26.7
5	Influenza and pneumonia.....	15.4	14.2	26.9
6	Diabetes mellitus.....	10.1	10.4	14.6
7	Cirrhosis of liver.....	12.4	13.1	13.9
8	Arteriosclerosis.....	6.1	6.2	9.6
9	Suicide.....	12.2	12.9	10.9
10	Certain causes of mortality in early infancy.....	(¹)	(¹)	(¹)
11	Bronchitis, emphysema, and asthma.....	6.8	7.2	12.8
12	Homicide.....	9.9	9.6	8.3
13	Congenital anomalies.....	(¹)	(¹)	(¹)
14	Nephritis and nephrosis.....	2.5	2.7	3.9
15	Septicemia.....	2.6	2.4	1.2
...	All other causes.....	80.8	80.8	89.8

¹Since deaths from these causes occur primarily among infants, rates adjusted to the total population of the United States in 1940 are not shown. See table H.

(133.0). During 1968-78 the age-adjusted rate for Malignant neoplasms increased 3.1 percent.

Cerebrovascular diseases.—An estimated 172,520 persons died from Cerebrovascular diseases in 1978. This third leading cause of death accounted for 9.0 percent of all deaths. The age-adjusted death rate decreased 7.9 percent between 1977 and 1978, from 48.2 deaths per 100,000 population to 44.4, the lowest rate ever recorded for the United States. During 1968-78 the age-adjusted rate decreased each year, for a total reduction in mortality from this cause of 37.7 percent for the period.

Accidents.—An estimated 107,930 deaths were attributed to Accidents in 1978, including 53,610 from Motor vehicle accidents and 54,320 from All other accidents. The age-adjusted death rate for Accidents increased 3.4 percent from 1977 to 1978, with Motor vehicle accidents increasing 7.1 percent and All other accidents decreasing 0.5 percent.

During 1968-75 the age-adjusted rate for Motor vehicle accidents declined from 28.4 to 21.3 deaths per 100,000 population. This includes a sharp reduction from 26.4 for 1973 to 21.8 for 1974, when there were serious gasoline shortages and new legislation went into effect establishing a maximum speed limit of 55 miles per hour on the Nation's highways. However, between 1975 and 1978 there was a pronounced upturn in mortality from this cause. The age-adjusted rate increased 12.7 percent, from 21.3 for 1975 to 24.0 for 1978.

For All other accidents the age-adjusted rates fluctuated during 1968-78, but the general trend was downward. The provisional age-adjusted rate for 1978 (21.3 deaths per 100,000 population) was 20.2 percent lower than the final rate for 1968 (26.7).

Influenza and pneumonia.—An estimated 58,290 deaths in 1978 were attributed to Influenza and pneumonia. The age-adjusted death rate for this cause increased 8.5 percent from the final rate of 14.2 per 100,000 population in 1977 to the provisional rate of 15.4 in 1978.

For the 10-year period 1968-77 there were seven outbreaks of influenza in the United

States. Age-adjusted rates for Influenza for these epidemic years ranged from 1.2 to 2.5 deaths per 100,000 population. In 1978 the provisional age-adjusted death rate for Influenza was 1.0 per 100,000. For the nonepidemic years the age-adjusted rates were 0.5 for 1971, 0.6 for 1974, and 0.3 for 1977.

Diabetes mellitus.—In 1978 an estimated 32,780 persons died from Diabetes mellitus. The age-adjusted death rate for Diabetes mellitus declined 2.9 percent between 1977 and 1978. During 1968-78 the age-adjusted rate for this cause decreased 30.8 percent.

Cirrhosis of liver.—According to provisional data, 29,910 persons died from Cirrhosis of liver in 1978. The age-adjusted death rate for this cause decreased 5.3 percent between 1977 and 1978. During 1968-73 the age-adjusted rate for this cause increased 7.9 percent, from 13.9 deaths per 100,000 population to 15.0. During 1973-78, however, the rate decreased 17.3 percent, from 15.0 to an estimated 12.4 per 100,000 population.

Arteriosclerosis.—An estimated 29,190 persons died from Arteriosclerosis. The provisional age-adjusted death rate for 1978 (6.1 deaths per 100,000 population) was slightly lower than the final rate for 1977 (6.2). During 1968-78 the rate decreased 36.5 percent.

Suicide.—An estimated 27,500 persons in the United States committed suicide in 1978. The provisional age-adjusted death rate for 1978 (12.2 deaths per 100,000 population) was 5.4 percent lower than the final rate for 1977 (12.9). Between 1968 and 1978 the age-adjusted rates for suicide have fluctuated, but the general trend showed an increase during the period.

Certain causes of mortality in early infancy.—An estimated 22,010 deaths occurred from Certain causes of mortality in early infancy. Since nearly all of the deaths from this cause occurred among children under 1 year of age, mortality change was measured for this cause using the infant mortality rate per 100,000 live births. On this basis the provisional mortality rate for 1978 (658.8 per 100,000 live births) was 6.2 percent lower than the final rate for 1977 (702.1). During 1968-78 the rate for

this cause decreased 47.2 percent from the 1968 rate of 1,248.2 per 100,000 live births.

Bronchitis, emphysema, and asthma.—Between 1977 and 1978 the age-adjusted death rate for Bronchitis, emphysema, and asthma (ICDA Nos. 490-493) decreased 5.6 percent, from 7.2 to 6.8 deaths per 100,000 population. The actual change in mortality from this cause between 1977 and 1978 may be obscured by the increasing frequency with which medical certifiers are entering the generalized term "Chronic obstructive lung disease" on certificates instead of a more specific diagnosis of "Emphysema," "Bronchitis," or "Asthma." Chronic obstructive lung disease is, by international rules, assigned to the category "Other diseases of lung" (ICDA No. 519.2). Beginning with the data year 1969 the United States established a separate category (denoted by *519.3) to identify deaths assigned to Chronic obstructive lung disease. Effective with data for 1972 the title was changed to Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema.

The following table shows age-adjusted rates for each year of the period 1969-77 for these complementary categories and for their combinations. Provisional data for 1978 are not shown since data for category *519.3 are not available.

Year	Bronchitis emphysema, and asthma (490-493)	Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (*519.3)	Combination of 490-493 and *519.3
1977	7.2	7.4	14.5
1976	7.9	6.8	14.8
1975	8.6	5.7	14.3
1974	9.2	4.8	14.0
1973	10.4	3.9	14.3
1972	11.0	2.9	13.9
1971	11.1	2.3	13.3
1970	11.6	1.7	13.2
1969	11.9	1.0	12.9

Homicide.—An estimated 21,080 deaths from Homicide occurred in 1978. The provisional age-adjusted death rate of 9.9 deaths per 100,000 population for 1978 was 3.1 percent higher than the final rate for 1977 (9.6). During 1968-78 the age-adjusted rate for Homicide increased by 19.3 percent from 8.3 per 100,000 population in 1968.

Congenital anomalies.—In 1978 an estimated 12,780 deaths were assigned to Congenital anomalies. Since 65 percent of these deaths (8,350) were to children under 1 year of age, the number of infant deaths per 100,000 live births was used to measure the changes in the risk of dying from this cause. This provisional infant mortality rate for Congenital anomalies decreased from 253.1 in 1977 to 250.8 in 1978, a reduction of 0.9 percent. During 1968-78 the rate decreased by 20.5 percent. The infant mortality rate in 1968 from this cause was 315.6 deaths per 100,000 live births.

Nephritis and nephrosis.—In 1978 there were an estimated 8,010 deaths from Nephritis and nephrosis. The provisional age-adjusted death rate for 1978 (2.5 deaths per 100,000 population) was about 7.4 percent lower than the final rate for 1977 (2.7). During 1968-78 the rate decreased 35.9 percent.

Septicemia.—There were an estimated 7,780 deaths from Septicemia in 1978. The age-adjusted death rate for 1978 (2.6 deaths per 100,000 population) was 8.3 percent higher than the final rate for 1977 (2.4). During 1968-78 the age-adjusted death rate and the death rates for each age group 35-44 years and over have more than doubled.

Maternal and Infant Mortality

In 1978 the deaths of an estimated 320 women were assigned to Complications of pregnancy, childbirth, and the puerperium compared with 373 deaths (final data) in the previous year. The provisional maternal mortality rate of 9.9 deaths per 100,000 live births in 1978 is less than half the rate in 1968 (24.5). Maternal mortality rates for 1950 and each of the last 19 years are as follows:

1978 (est.)	9.9	1968	24.5
1977	11.2	1967	28.0
1976	12.3	1966	29.1
1975	12.8	1965	31.6
1974	14.6	1964	33.3
1973	15.2	1963	35.8
1972	18.8	1962	35.2
1971	18.8	1961	36.9
1970	21.5	1960	37.1
1969	22.2	1950	83.3

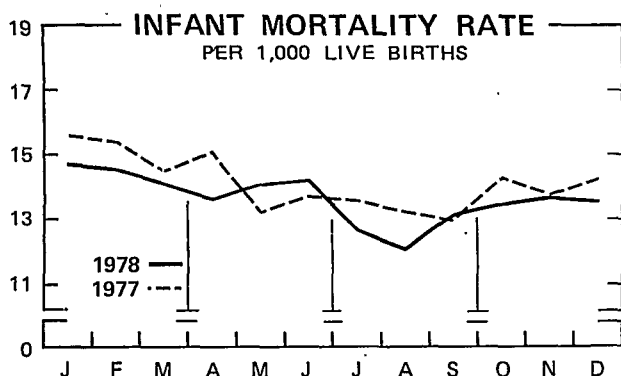
creased between 1977 and 1978 while the post-neonatal (28 days to 11 months) mortality rate remained unchanged.

Table G. INFANT MORTALITY RATES BY AGE: UNITED STATES, 1950 AND 1960-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 1,000 live births]

Year	Under 1 year	Under 28 days	28 days to 11 months
1978 (est.)	13.6	9.4	4.2
1977	14.1	9.9	4.2
1976	15.2	10.9	4.3
1975	16.1	11.6	4.5
1974	16.7	12.3	4.4
1973	17.7	13.0	4.8
1972 ¹	18.5	13.6	4.8
1971	19.1	14.2	4.9
1970	20.0	15.1	4.9
1969	20.9	15.6	5.3
1968	21.8	16.1	5.7
1967	22.4	16.5	5.9
1966	23.7	17.2	6.5
1965	24.7	17.7	7.0
1964	24.8	17.9	6.9
1963	25.2	18.2	7.0
1962	25.3	18.3	7.0
1961	25.3	18.4	6.9
1960	26.0	18.7	7.3
1950	29.2	20.5	8.7

¹Based on a 50-percent sample of deaths.



In 1978 an estimated 45,300 infants died in the United States. This resulted in a provisional infant mortality rate of 13.6 deaths per 1,000 live births, the lowest annual rate ever recorded in the United States. The 1978 rate decreased 3.5 percent from the final rate of 14.1 for 1977. The neonatal (under 28 days) mortality rate de-

Table H. INFANT MORTALITY RATES, BY AGE AND SELECTED CAUSES: UNITED STATES, 1973-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 1,000 live births]

Age and cause of death	1978 (est.)	1977	1976	1975	1974	1973
Total, under 1 year	13.6	14.1	15.2	16.1	16.7	17.7
Under 28 days	9.4	9.9	10.9	11.6	12.3	13.0
28 days to 11 months	4.2	4.2	4.3	4.5	4.4	4.8
Certain gastrointestinal diseases	0.2	0.2	0.2	0.3	0.2	0.2
Influenza and pneumonia	0.5	0.5	0.6	0.7	0.8	1.1
Congenital anomalies	2.5	2.5	2.6	2.7	2.7	2.9
Birth injuries	0.5	0.5	0.6	0.6	0.6	0.6
Asphyxia of newborn, unspecified	0.9	1.0	1.1	1.3	1.5	1.7
Immaturity, unqualified	1.1	1.1	1.3	1.4	1.5	1.7
Other diseases of early infancy	4.1	4.4	4.9	5.2	5.5	5.6
All other causes	3.9	3.9	3.9	3.9	3.8	3.8

Table J. DEATHS UNDER 1 YEAR AND INFANT MORTALITY RATES, BY MONTH: UNITED STATES, 1977 AND 1978

[Rates on an annual basis per 1,000 live births. Monthly rates adjusted for changing number of births. Data are provisional unless otherwise specified]

Month	Number			Rate		
	1978	1977	1977 (final)	1978	1977	1977 (final)
Total	45,300	46,500	46,975	13.6	14.0	14.1
January	3,900	4,200	4,208	14.7	15.6	15.5
February.....	3,700	3,900	3,671	14.6	15.4	14.5
March.....	4,000	4,000	4,109	14.1	14.5	14.6
April.....	3,600	3,900	3,849	13.6	15.1	14.7
May.....	3,900	3,600	3,924	14.1	13.2	14.3
June.....	3,800	3,700	3,842	14.2	13.7	14.1
July.....	3,800	4,000	3,924	12.7	13.6	13.5
August.....	3,700	3,900	3,845	12.0	13.2	12.9
September.....	3,800	3,700	3,710	13.2	12.9	12.7
October.....	3,800	4,000	4,009	13.5	14.3	14.0
November.....	3,700	3,600	3,813	13.7	13.7	14.2
December.....	3,800	4,000	4,071	13.5	14.3	14.9

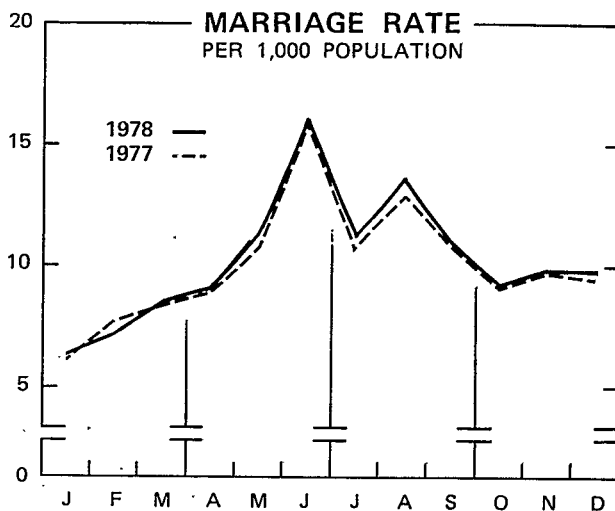
MARRIAGES

In 1978 the number of marriages performed in the United States rose to 2,243,000. This provisional number represented an increase of 3 percent over the final number for 1977 (2,178,367). The provisional marriage rate for 1978 was 10.3 per 1,000 population, up 2 percent over the final rate for 1977.

Except for a brief but sharp decline in 1974 and 1975, the annual number of marriages has increased each year in the two decades since 1958. Although the number of marriages has increased each year since 1975, it has not yet regained the peak of 2,284,108 recorded in 1973 or the alltime high of 2,291,045 recorded in 1946.

The marriage rate has either increased or remained unchanged in the 20-year period following 1958 except for declines each year from 1973 to 1976. Since that date, the highest rate recorded was 11.0 per 1,000 population in 1972. The rate remains well below the alltime high rate of 16.4 recorded in 1946.

Provisional data for 1978 show that the number of marriages increased over final totals



for 1977 in every geographic division, and the marriage rate also increased in every division except the Pacific Division. Provisional reports from each State for 1978 further indicate that the number of marriages increased in 41 States, while the marriage rate increased in 31 States and the District of Columbia. However, many of these changes were small, and the direction of change for some States may be reversed when final totals for 1978 are available.

Table K. MARRIAGES AND MARRIAGE RATES, BY MONTH: UNITED STATES, 1977 AND 1978

[Rates on an annual basis per 1,000 population. Data are provisional unless otherwise specified]

Month	Number			Rate				
	1978	1977	1977 (final)	Unadjusted for seasonal variation			Adjusted for seasonal variation	
				1978	1977	1977 (final)	1978	1977
Total	2,243,000	2,176,000	2,178,367	10.3	10.1	10.1
January	116,000	113,000	120,555	6.3	6.2	6.6	8.7	8.6
February.....	122,000	129,000	130,509	7.3	7.8	7.9	9.5	10.1
March.....	160,000	156,000	139,599	8.7	8.5	7.6	10.9	10.7
April.....	161,000	159,000	176,308	9.0	9.0	9.9	10.4	10.4
May.....	210,000	198,000	186,788	11.3	10.8	10.2	12.1	11.5
June.....	283,000	279,000	245,327	15.8	15.7	13.8	10.4	10.3
July.....	209,000	197,000	227,898	11.3	10.7	12.4	10.7	10.2
August.....	252,000	239,000	225,579	13.6	13.0	12.3	10.3	9.9
September.....	199,000	190,000	195,388	11.1	10.7	11.0	10.3	9.9
October.....	171,000	167,000	183,021	9.2	9.1	9.9	9.8	9.6
November.....	177,000	174,000	165,203	9.9	9.7	9.3	9.8	9.7
December.....	183,000	176,000	182,192	9.9	9.5	9.9	9.9	9.5

Table L. MARRIAGES, DIVORCES, AND RATES:
UNITED STATES, 1958-78

[Rates on an annual basis per 1,000 population. Data refer only to events occurring in the United States. Alaska included beginning with 1959 and Hawaii with 1960]

Year	Marriage		Divorce	
	Number	Rate ¹	Number	Rate ¹
1978 ²	2,243,000	10.3	1,128,000	5.2
1977.....	2,178,367	10.1	1,091,000	5.0
1976.....	2,154,807	10.0	1,083,000	5.0
1975.....	2,152,662	10.1	1,036,000	4.9
1974.....	2,229,667	10.5	977,000	4.6
1973.....	2,284,108	10.9	915,000	4.4
1972.....	2,282,154	11.0	845,000	4.1
1971.....	2,190,481	10.6	773,000	3.7
1970.....	2,158,802	10.6	708,000	3.5
1969.....	2,145,000	10.6	639,000	3.2
1968.....	2,069,000	10.4	584,000	2.9
1967.....	1,927,000	9.7	523,000	2.6
1966.....	1,857,000	9.5	499,000	2.5
1965.....	1,800,000	9.3	479,000	2.5
1964.....	1,725,000	9.0	450,000	2.4
1963.....	1,654,000	8.8	428,000	2.3
1962.....	1,577,000	8.5	413,000	2.2
1961.....	1,548,000	8.5	414,000	2.3
1960.....	1,523,000	8.5	393,000	2.2
1959.....	1,494,000	8.5	395,000	2.2
1958.....	1,451,000	8.4	368,000	2.1

¹Rates are based on population enumerated as of April 1 for 1960 and 1970 and estimated as of July 1 for all other years.

²Provisional.

DIVORCES

An estimated 1,128,000 divorces were granted in the United States during 1978. This total was 3 percent more than the final total for 1977 (1,091,000). The increase of an estimated 37,000 divorces between 1977 and 1978 indicates a somewhat larger rate of growth in the divorce total than that recorded in the period of marked slowdown between 1976 and 1977.

In 1978 the provisional divorce rate increased to 5.2 per 1,000 population, up 4 percent over the final rate of 5.0 in 1977. Between 1976 and 1977 the final divorce rate did not change. This ended a remarkable 10-year period of consecutive annual increases in the rate, beginning with a rate of 2.5 per 1,000 population in 1966.

In comparison with 1977 final divorce rates, the 1978 provisional divorce rates for the 49 reporting States indicate that the rate increased in 25 States and the District of Columbia and decreased in 11 States. Nevada had the highest 1978 provisional divorce rate at 15.1 per 1,000 population, showing a decline from a final rate of 16.2 in 1977. All the other States reporting in 1978 had divorce rates between 3.1 (Massachusetts) and 8.9 (Arkansas).

EXPLANATORY NOTES

Nature and Sources of Data

All data for 1978 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 except those by place of occurrence exclude data for births and deaths to non-residents of the United States. Final mortality statistics for 1972 are based on a 50-percent sample of deaths for that year. Data for non-residents are included in provisional data for 1977 and 1978.

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. Monthly estimates of births and 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. All mortality figures exclude fetal deaths.

Marriage data by State are shown in table 1. For most States, data represent marriages performed. For some or all counties of Arizona and New York City, provisional data are marriage licenses issued; for New Mexico all data are marriage licenses issued.

Seasonal adjustment factors used for marriages were modified 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.

Provisional divorce data including reported annulments are shown in table 3 for the areas reporting divorce data monthly. Divorce figures for the United States are estimated from a sum-

mary of monthly reports from 45 States and the District of Columbia. These areas contain over 90 percent of the population of the United States as enumerated in 1970.

Current Mortality Sample

The Current Mortality Sample is a 10-percent systematic sample of death certificates received each month in State vital statistics offices. Deaths and death rates for 1978 by cause, age, color, and sex were estimated from this sample.

The sample was taken from death certificates received monthly during 1978 in the vital statistics offices in the 50 States and the independent registration area of New York City. Death certificates from the District of Columbia were not included in the sample for 1978. 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 1978 representing deaths occurring in the current month and those occurring in other months are shown in the following table.

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 81 percent of the total as opposed to 74 percent of the entire sample. As for the year of occurrence, 97.1 percent of the 191,375 transcripts in the 1978 sample were for deaths occurring in 1978 and 2.9 percent for deaths occurring in 1977.

Month	Deaths occurring in—		
	Same month	Previous month	All other months
January	78.3	15.2	6.5
February	70.3	20.1	9.6
March	73.7	17.3	9.0
April	71.7	19.3	9.0
May	74.4	18.4	7.2
June	71.6	21.3	7.2
July	74.5	19.5	6.0
August	74.1	19.4	6.5
September	72.0	19.8	8.1
October	76.6	17.4	6.0
November	74.6	17.7	7.7
December	75.0	17.8	7.2

Correction for Bias and Adjustments 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 submitted to the National Center for Health Statistics. 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.

The sample data in this report are adjusted for such deficiencies based on the experience of the 3 years—1975, 1976, and 1977. If for a given cause the sample count for these years departs from one-tenth of the final count by more than would be expected on the basis of sampling variability alone, the sample deaths for this cause are corrected by multiplying the sample frequency by an adjusted weight. The adjusted weight used is the ratio of the number of deaths from the given cause in the final count of deaths for the 3 years to the number of deaths from this cause in the sample returns for the same years, multiplied by 10 times the 3-year average sampling fraction for all causes. Such adjustments have been necessary for relatively few

Cause of death ¹	Adjusted weight (all ages)
Malignant neoplasms of all other and unspecified sites170-173,190-199	9.84
Benign neoplasms and neoplasms of unspecified nature 210-239	9.23
All other forms of heart disease420-423,425-427,429	10.29
Other complications of pregnancy, childbirth, and the puerperium630-639,650-678	8.40
Birth injury, difficult labor, and other anoxic and hypoxic conditions764-768,772,776	9.67
Other causes of mortality in early infancy Remainder of 760-778	10.37
Symptoms and ill-defined conditions 780-796	7.82
All other diseases Residual	10.12
Motor vehicle accidents E810-E823	10.42
All other accidents E800-E807,E825-E949	10.27
SuicideE950-E959	10.61
Homicide.....E960-E978	10.52

¹Causes of death eligible to have an adjusted weight were those that had 50 or more deaths based on final data for 1977.

causes. The adjusted weights which were applied to the 1978 sample for all ages are shown in the table above.

The same list of causes that was tested for bias for "all ages" was also tested for bias at ages under 1 year. For those causes found to need correction for bias at ages under 1 year, the adjusted weight used is the ratio of the number of deaths under 1 year of age from the given cause in the final count of deaths for the 3 years to the number of deaths under 1 year of age from this cause in the sample returns for the same years, multiplied by 10 times the 3-year average sampling fraction for all causes at ages under 1 year. The adjusted weights which were applied to the 1978 sample for under 1 year of age are listed in the table below.

Cause of death ¹	Adjusted weight (under 1 year)
All other forms of heart disease420-423,425-427,429	13.20
Birth injury, difficult labor, and other anoxic and hypoxic conditions764-768,772,776	9.67
Other causes of mortality in early infancy Remainder of 760-778	10.37

¹Causes of death eligible to have an adjusted weight were those that had 50 or more deaths based on final data for 1977.

The number of deaths for all ages for each of the 12 causes to be corrected for bias is multiplied by the adjusted weights for all ages, to obtain the preliminary estimates of the number of deaths from these causes. The preliminary estimates of the number of deaths (all ages) for each of the remaining causes are obtained by multiplying by 10 the numbers in the sample from these causes.

Similarly the number of deaths at ages under 1 year for each of the three causes to be corrected for bias is multiplied by the adjusted weights for under 1 year, to obtain the preliminary estimates of the number of deaths at ages under 1 year from these causes. The preliminary estimates of the number of deaths at ages under 1 year for each of the remaining causes are obtained by multiplying by 10 the numbers in the sample from these causes at ages under 1 year.

The preliminary estimate of the number of deaths at ages 1 year and over is obtained for each cause by subtracting the preliminary estimate of the number of deaths from the cause at ages under 1 year from the preliminary estimate of all deaths from the particular cause. Then for each cause the final estimate of the number of deaths at ages under 1 year was obtained by adjusting the preliminary estimate proportionately to the provisional count of deaths at ages under 1 year; and for each cause the final estimate of the number of deaths at ages 1 year and over was obtained by adjusting the preliminary estimate proportionately to the provisional count of deaths at ages 1 year and over.

For each cause the final estimate of the number of deaths for all ages was taken to be the sum of the estimates at ages under 1 year and at 1 year and over.

These two sets of adjustments resulted in final weights which were assigned to the sample records and are reflected in estimates for color-sex groups and the age groups as well as cause groups.

Cause-of-Death Ranking

Cause-of-death ranking is based on the List of 69 Selected Causes of Death, adapted from one of the special lists for mortality tabulations recommended by the World Health Organization for use with the Eighth Revision of the International Classification of Diseases. Two group titles—Major cardiovascular diseases and Symptoms 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 titles are ranked to determine the leading causes of death. When one of the titles that represents a subtotal is ranked (e.g., Tuberculosis, all forms), its component parts (in this case, Tuberculosis of respiratory system and Tuberculosis, other forms) are not ranked.

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.³

An adaption of the Eighth Revision of the Classification—*Eighth Revision International Classification of Diseases, Adapted for Use in the United States*⁴—was used beginning with 1968. The Seventh Revision was used for 1958 through 1967.

³World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*, based on the recommendations of the Eighth Revision Conference, 1965. Geneva. World Health Organization, 1967.

⁴National Center for Health Statistics: *Eighth Revision International Classification of Diseases, Adapted for Use in the United States*. PHS Pub. No. 1693. Public Health Service. Washington. U.S. Government Printing Office, 1967.

The introduction of a new revision has led to a break in the comparability of data by cause of death. The comparability ratio is a measure that estimates the degree of comparability by cause.

For information about comparability ratios between the Seventh and Eighth Revisions, see *Vital and Health Statistics*, Series 2, No. 66.⁵ 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*, Vol. 51, No. 4, March 1965, p. 248.

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.

Population Bases for Computing Rates

The populations used for computing rates shown in this report represent the population residing in the specified area, as published by the U.S. Bureau of the Census. The populations for 1978 were published by the U.S. Bureau of the Census in the following issues of the *Current Population Reports*, Series P-25:

1. No. 799. "Revised 1977 and Provisional 1978 Estimates of the Population of States and Components of Change," 1979.

⁵National 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.

2. No. 800. "Estimates of the Population of the United States, by Age, Sex, and Race; 1976-1978," 1979.

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 "Effect of Changing Birth Rates Upon Infant Mortality Rates," *Vital Statistics—Special Reports*, Vol. 19, No. 21, Nov. 1944 (U.S. Bureau of the Census).

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 1978 were based on the same 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 directly with crude rates shown in other tables.

Life Tables

United States life tables for the decennial period 1969-71 are used as the standard life tables in constructing the 1978 provisional abridged life tables. Abridged life tables were constructed by the Sirken method.⁶ Life table values for 1968-69 are based on revised intercensal estimates of the populations for those years and are constructed using the 1959-61 United States life tables as the standard tables.

⁶National Center for Health Statistics: Comparison of two methods of constructing abridged life tables by reference to a "standard" table, by M. G. Sirken. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 4. Public Health Service. Washington. U.S. Government Printing Office, 1966.

Life table values for 1970-73 have been revised by using the 1969-71 United States decennial life tables as the standard tables. Since the 1969-71 decennial life tables were not yet available, previous abridged life tables for 1970-73 were constructed using the 1959-61 decennial life tables as the standard tables.

Sampling Variability

Since the estimates of deaths and death rates presented in this report (with the exceptions 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-color-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-color-sex group

- x = the number of deaths in the sample from the given cause
- D = 191,375, the total number of death certificates in the sample for 1978
- Y = the final number of deaths from the given cause in the 3 years—1975, 1976, and 1977 combined
- M = 5,701,916, the final count of all deaths occurring in the 3 years—1975, 1976, and 1977 combined.

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

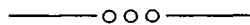
$$V = 300 \sqrt{\frac{1}{X} - \frac{1}{N}}$$

where

- V = the percent error of the estimate X
- X = the estimated number of deaths from a given cause or age-color-sex group
- N = 1,924,000, the provisional number of registered deaths in 1978.

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

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



MONTHLY VITAL STATISTICS REPORT

Table 1. LIVE BIRTHS, MARRIAGES, AND RATES: EACH REPORTING AREA, 1977 AND 1978

[By place of occurrence. Rates per 1,000 population in specified area. Data are provisional unless otherwise specified]

Area	Live births					Marriages ¹				
	Number		Rate			Number		Rate		
	1978	1977 (final)	1978	1977	1977 (final)	1978	1977 (final)	1978	1977	1977 (final)
New England	150,567	152,280	12.3	12.5	12.4	102,845	97,317	8.4	7.7	7.9
Maine	14,584	15,590	13.4	14.5	14.4	11,629	11,446	10.7	10.6	10.5
New Hampshire	12,330	12,130	14.2	14.2	14.3	9,049	8,902	10.4	10.4	10.5
Vermont	7,114	6,746	14.6	13.3	14.0	4,899	4,774	10.1	10.0	9.9
Massachusetts	69,078	69,559	12.0	12.3	12.0	46,290	41,947	8.0	6.9	7.3
Rhode Island	11,766	11,937	12.6	12.8	12.8	7,247	7,114	7.8	7.6	7.6
Connecticut	35,695	36,318	11.5	11.6	11.7	23,731	23,134	7.7	7.4	7.4
Middle Atlantic	472,798	487,392	12.8	13.0	13.2	283,097	275,349	7.7	7.4	7.4
New York	229,782	241,450	12.9	13.3	13.5	135,988	133,830	7.7	7.3	7.5
New Jersey	89,778	91,198	12.3	12.4	12.4	53,079	50,677	7.2	6.8	6.9
Pennsylvania	153,238	154,744	13.0	13.0	13.1	94,030	90,842	8.0	7.8	7.7
East North Central	624,198	627,203	15.1	15.3	15.3	392,824	387,356	9.5	9.4	9.4
Ohio	161,813	161,924	15.1	15.2	15.1	104,340	99,352	9.7	9.1	9.3
Indiana	83,595	85,316	15.6	16.0	16.0	58,197	56,424	10.8	10.6	10.6
Illinois	174,212	174,441	15.5	15.5	15.5	105,605	108,100	9.4	9.6	9.6
Michigan	136,449	137,143	14.8	15.1	15.0	86,672	86,088	9.4	9.4	9.4
Wisconsin	68,129	68,379	14.6	14.7	14.7	38,010	37,392	8.1	8.0	8.0
West North Central	268,611	266,275	15.8	15.5	15.8	169,692	164,644	10.0	9.6	9.8
Minnesota	62,356	60,654	15.6	15.1	15.3	33,832	33,038	8.4	7.9	8.3
Iowa	45,071	45,351	15.6	15.7	15.8	28,089	26,419	9.7	9.2	9.2
Missouri	77,072	75,688	15.9	15.1	15.8	54,197	52,100	11.2	10.9	10.9
North Dakota	12,112	12,232	18.6	18.7	18.7	5,664	5,668	8.7	8.7	8.7
South Dakota	12,037	11,860	17.4	17.3	17.2	10,570	10,359	15.3	14.9	15.0
Nebraska	25,216	25,558	16.1	16.1	16.4	13,439	13,387	8.6	8.3	8.6
Kansas	34,747	34,932	14.8	15.0	15.0	23,901	23,673	10.2	10.1	10.2
South Atlantic	504,313	509,350	14.6	14.8	14.8	388,904	380,790	11.2	11.1	11.1
Delaware	8,945	8,796	15.3	15.1	15.1	4,260	3,993	7.3	6.9	6.9
Maryland	47,987	48,341	11.6	11.6	11.7	44,376	45,109	10.7	10.9	10.9
District of Columbia	19,054	20,670	28.3	29.9	30.0	4,618	4,640	6.9	6.7	6.7
Virginia	70,418	71,526	13.7	13.9	13.9	59,013	57,778	11.5	11.3	11.3
West Virginia	31,357	30,467	16.9	16.2	16.4	17,299	17,484	9.3	9.4	9.4
North Carolina	82,583	84,872	14.8	15.3	15.4	44,149	43,490	7.9	7.9	7.9
South Carolina	47,198	47,975	16.2	16.8	16.7	53,173	51,314	18.2	17.8	17.8
Georgia	83,784	86,308	16.5	16.9	17.1	67,593	67,388	13.3	13.3	13.3
Florida	112,987	110,395	13.1	13.2	13.1	94,423	89,594	11.0	10.5	10.6
East South Central	233,111	236,312	16.6	17.1	17.1	166,525	160,109	11.9	11.7	11.6
Kentucky	58,359	59,923	16.7	17.5	17.3	34,104	32,245	9.7	9.8	9.3
Tennessee	70,431	70,019	16.2	16.3	16.3	57,733	55,327	13.3	12.9	12.9
Alabama	58,738	61,076	15.7	16.5	16.6	47,881	45,694	12.8	12.3	12.4
Mississippi	45,583	45,294	19.0	19.0	19.0	26,807	26,843	11.2	11.1	11.2
West South Central	389,538	389,163	17.7	18.0	17.9	270,086	264,382	12.3	12.2	12.2
Arkansas	33,445	34,702	15.3	16.1	16.2	23,461	24,028	10.7	11.2	11.2
Louisiana	75,659	75,571	19.1	19.4	19.3	39,232	38,645	9.9	9.8	9.9
Oklahoma	43,735	43,905	15.2	15.6	15.6	43,115	42,133	15.0	14.7	15.0
Texas	236,699	234,985	18.2	18.4	18.3	164,278	159,576	12.6	12.6	12.4
Mountain	200,327	195,950	19.5	19.4	19.5	234,425	219,457	22.8	21.9	21.9
Montana	13,176	13,055	16.8	17.1	17.2	8,137	7,547	10.4	9.9	9.9
Idaho	18,751	18,292	21.4	21.3	21.3	13,768	13,691	15.7	15.7	16.0
Wyoming	8,102	7,726	19.1	18.5	19.0	6,205	6,012	14.6	14.3	14.8
Colorado	44,387	43,544	16.6	16.6	16.6	30,362	30,063	11.4	11.2	11.5
New Mexico	21,988	22,600	18.1	18.9	19.0	17,047	16,385	14.1	10.5	13.8
Arizona	43,004	41,822	18.3	18.1	18.2	28,228	26,955	12.0	12.3	11.7
Utah	40,051	38,820	30.6	30.2	30.6	16,522	15,098	12.6	12.0	11.9
Nevada	10,868	10,091	16.5	16.0	15.9	114,156	103,706	173.0	170.6	163.8
Pacific	479,222	468,234	16.1	15.7	16.0	229,502	228,963	7.7	7.8	7.8
Washington	57,681	57,088	15.3	15.0	15.6	43,612	43,835	11.6	11.3	12.0
Oregon	39,940	38,448	16.3	16.2	16.2	20,961	20,303	8.6	8.8	8.5
California ²	356,190	347,436	16.0	15.5	15.9	149,152	149,416	6.7	6.9	6.8
Alaska	8,761	8,286	21.7	20.6	20.4	5,102	5,143	12.7	12.5	12.6
Hawaii	16,650	16,976	18.6	19.0	19.0	10,675	10,266	11.9	11.5	11.5

¹Data are either marriages reported or marriage licenses issued; see Explanatory Notes.

²Marriage data exclude nonlicensed marriages; there were 32,008 such marriages registered in 1977.

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Table 2. DEATHS, INFANT DEATHS, AND RATES: EACH REPORTING AREA, 1977 AND 1978

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

Area	Deaths (all ages)					Infant deaths (under 1 year)				
	Number		Rate			Number		Rate		
	1978	1977 (final)	1978	1977	1977 (final)	1978	1977 (final)	1978	1977	1977 (final)
New England	110,975	108,530	9.1	8.9	8.9	1,511	1,818	10.0	10.6	11.9
Maine	10,139	10,047	9.3	9.4	9.3	134	151	9.2	8.6	9.7
New Hampshire	7,190	7,118	8.3	8.4	8.4	101	101	8.3	9.0	8.3
Vermont	4,587	4,291	9.4	9.0	8.9	81	66	11.4	10.0	9.8
Massachusetts	53,860	52,053	9.3	9.1	9.0	668	823	9.7	9.6	11.8
Rhode Island	9,095	9,207	9.7	9.8	9.8	185	174	15.7	14.7	14.6
Connecticut	26,104	25,814	8.4	8.3	8.3	342	503	9.6	12.9	13.8
Middle Atlantic	348,800	351,201	9.5	9.4	9.5	7,056	6,952	14.9	15.0	14.3
New York	164,635	168,190	9.3	9.3	9.4	3,736	3,529	16.3	16.5	14.6
New Jersey	64,353	64,341	8.8	8.8	8.8	1,058	1,182	11.8	13.3	13.0
Pennsylvania	119,812	118,670	10.2	10.2	10.1	2,262	2,241	14.8	13.9	14.5
East North Central	360,278	357,435	8.7	8.7	8.7	8,140	8,899	13.0	14.0	14.2
Ohio	97,928	96,666	9.1	9.0	9.0	2,099	2,304	13.0	14.0	14.2
Indiana	47,451	47,050	8.8	8.8	8.8	1,017	1,157	12.2	13.1	13.6
Illinois	100,363	101,189	8.9	9.0	9.0	2,568	2,738	14.7	15.8	15.7
Michigan	73,911	73,173	8.0	8.0	8.0	1,832	1,942	13.4	13.7	14.2
Wisconsin	40,625	39,357	8.7	8.5	8.5	624	758	9.2	10.8	11.1
West North Central	160,535	155,909	9.4	9.2	9.2	3,581	3,572	13.3	13.1	13.4
Minnesota	33,956	32,725	8.5	8.1	8.2	768	703	12.3	11.3	11.6
Iowa	27,203	26,458	9.4	9.2	9.2	532	538	11.8	12.0	11.9
Missouri	51,786	49,840	10.7	10.3	10.4	1,231	1,202	16.0	16.1	15.9
North Dakota	5,720	5,499	8.8	8.4	8.4	159	163	13.1	13.2	13.3
South Dakota	6,359	6,187	9.2	9.0	9.0	144	198	12.0	15.4	16.7
Nebraska	14,510	14,482	9.3	9.2	9.3	349	351	13.8	11.7	13.7
Kansas	21,001	20,718	8.9	8.9	8.9	398	417	11.5	12.0	11.9
South Atlantic	319,000	311,453	9.2	9.0	9.1	7,706	8,036	15.3	15.5	15.8
Delaware	5,095	4,952	8.7	8.4	8.5	107	113	12.0	11.7	12.8
Maryland	32,390	31,339	7.8	7.6	7.6	693	658	14.4	12.4	13.6
District of Columbia	8,737	8,981	13.0	10.8	13.0	440	495	23.1	23.0	23.9
Virginia	40,242	39,386	7.8	7.7	7.7	935	1,111	13.3	15.3	15.5
West Virginia	20,112	19,333	10.8	10.4	10.4	474	440	15.1	14.5	14.4
North Carolina	47,640	46,932	8.5	8.5	8.5	1,347	1,328	16.3	16.8	15.6
South Carolina	23,577	23,599	8.1	8.3	8.2	871	856	18.5	17.6	17.8
Georgia	43,416	43,335	8.5	8.6	8.6	1,229	1,311	14.7	14.2	15.2
Florida	97,791	93,596	11.4	11.1	11.1	1,610	1,724	14.2	15.3	15.6
East South Central	131,774	132,108	9.4	9.6	9.5	3,575	3,783	15.3	15.5	16.0
Kentucky	33,108	33,424	9.6	9.8	9.7	700	781	12.0	13.4	13.0
Tennessee	41,289	41,511	9.5	9.6	9.7	1,134	1,182	16.1	16.5	16.9
Alabama	34,458	34,571	9.2	9.3	9.4	963	1,036	16.4	17.1	17.0
Mississippi	22,919	22,602	9.5	9.6	9.5	778	784	17.1	14.5	17.3
West South Central	186,835	183,959	8.5	8.5	8.5	5,695	5,894	14.6	15.3	15.1
Arkansas	21,555	21,196	9.9	9.8	9.9	478	500	14.3	13.9	14.4
Louisiana	35,649	34,882	9.0	8.9	8.9	1,343	1,362	17.8	18.3	18.0
Oklahoma	26,924	26,086	9.3	9.3	9.3	602	608	13.8	14.2	13.8
Texas	102,707	101,795	7.9	8.0	7.9	3,272	3,424	13.8	14.7	14.6
Mountain	76,078	73,786	7.4	7.4	7.4	2,479	2,415	12.4	12.8	12.3
Montana	6,401	6,321	8.2	8.3	8.3	132	159	10.0	12.5	12.2
Idaho	6,168	6,132	7.0	7.2	7.2	181	159	9.7	9.0	8.7
Wyoming	3,029	2,978	7.1	7.3	7.3	73	80	9.0	10.5	10.4
Colorado	18,944	18,498	7.1	7.1	7.1	529	568	11.9	13.3	13.0
New Mexico	8,488	8,039	7.0	6.9	6.8	319	291	14.5	13.8	12.9
Arizona	19,623	18,557	8.3	8.0	8.1	643	581	15.0	14.7	13.9
Utah	8,180	8,004	6.3	6.3	6.3	479	439	12.0	11.8	11.3
Nevada	5,245	5,257	7.9	8.4	8.3	123	138	11.3	13.1	13.7
Pacific	229,791	227,725	7.7	7.8	7.8	5,675	5,691	11.8	11.9	12.2
Washington	30,068	30,055	8.0	8.2	8.2	665	706	11.5	11.8	12.4
Oregon	21,031	20,550	8.6	8.7	8.6	527	482	13.2	12.5	12.5
California	172,077	170,753	7.7	7.7	7.8	4,143	4,185	11.6	11.8	12.0
Alaska	1,762	1,646	4.4	4.1	4.0	143	111	16.3	14.2	13.4
Hawaii	4,853	4,721	5.4	5.3	5.3	197	207	11.8	12.2	12.2

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Table 3. DIVORCES AND DIVORCE RATES: UNITED STATES AND EACH REPORTING AREA, 1977 AND 1978

[By place of occurrence. Rates per 1,000 population in specified area. Data are provisional unless otherwise specified]

Area	Number		Rate		
	1978	1977 (final)	1978	1977	1977 (final)
United States ¹	1,128,000	1,091,000	5.2	5.0	5.0
Total, 49 areas.....	1,070,921	1,042,100	5.1	² 5.0	5.0
Alabama.....	25,271	23,757	6.8	6.4	6.4
Alaska.....	3,353	3,581	8.3	9.3	8.8
Arizona.....	17,370	16,578	7.4	---	7.2
Arkansas.....	19,389	19,222	8.9	8.6	9.0
California.....	133,232	132,193	6.0	6.1	6.0
Colorado.....	17,524	20,557	6.6	7.7	7.8
Connecticut.....	12,678	12,222	4.1	3.8	3.9
Delaware.....	3,246	3,030	5.6	5.2	5.2
District of Columbia.....	3,492	3,158	5.2	4.3	4.6
Florida.....	66,011	62,370	7.7	7.5	7.4
Georgia.....	31,421	30,988	6.2	6.0	6.1
Hawaii.....	4,837	4,601	5.4	5.2	5.1
Idaho.....	6,386	6,031	7.3	6.8	7.0
Illinois.....	47,676	48,980	4.2	4.5	4.4
Iowa.....	11,083	10,890	3.8	3.8	3.8
Kansas.....	12,737	12,629	5.4	5.4	5.4
Kentucky.....	14,043	15,530	4.0	4.7	4.5
Maine.....	6,244	5,671	5.7	5.3	5.2
Maryland.....	15,711	16,617	3.8	3.8	4.0
Massachusetts.....	17,777	16,492	3.1	2.8	2.9
Michigan.....	44,804	43,036	4.9	4.6	4.7
Minnesota.....	14,127	14,020	3.5	3.5	3.5
Mississippi.....	12,893	12,769	5.4	5.4	5.3
Missouri.....	26,366	25,235	5.4	5.3	5.3
Montana.....	4,874	4,692	6.2	6.4	6.2
Nebraska.....	6,108	6,112	3.9	4.0	3.9
Nevada.....	9,989	10,280	15.1	16.3	16.2
New Hampshire.....	4,471	4,417	5.1	5.0	5.2
New Jersey.....	26,029	20,493	3.6	2.7	2.8
New Mexico.....	9,249	9,143	7.6	5.8	7.7
New York.....	57,021	55,803	3.2	2.8	3.1
North Carolina.....	26,630	25,013	4.8	4.5	4.5
North Dakota.....	2,083	1,952	3.2	3.0	3.0
Ohio.....	58,149	57,266	5.4	5.2	5.4
Oklahoma.....	22,507	21,806	7.8	7.6	7.8
Oregon.....	16,882	16,372	6.9	7.0	6.9
Pennsylvania.....	39,061	37,868	3.3	3.2	3.2
Rhode Island.....	3,471	3,420	3.7	3.7	3.7
South Carolina.....	12,151	10,717	4.2	4.0	3.7
South Dakota.....	2,446	2,436	3.5	3.5	3.5
Tennessee.....	28,816	27,421	6.6	6.6	6.4
Texas.....	86,533	82,265	6.6	6.5	6.4
Utah.....	7,128	6,901	5.5	5.4	5.4
Vermont.....	2,284	2,131	4.7	4.0	4.4
Virginia.....	22,629	21,459	4.4	4.2	4.2
Washington.....	26,062	26,679	6.9	7.0	7.3
West Virginia.....	9,729	9,605	5.2	5.1	5.2
Wisconsin.....	15,831	14,634	3.4	3.2	3.1
Wyoming.....	3,117	3,068	7.4	7.6	7.6

¹ Estimated.

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Table 4. ABRIDGED LIFE TABLE FOR THE TOTAL POPULATION: UNITED STATES, 1978

[For explanation of the columns of the life table, see Section 5 of *Vital Statistics of the United States, 1975, Volume II, Part A*]

Age interval	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
	Proportion of persons alive at beginning of age interval dying during interval	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x+n$	n^q_x	l_x	n^d_x	n^L_x	T_x	e_x
0-1	0.0136	100,000	1,361	98,804	7,331,757	73.3
1-5	0.0026	98,639	261	393,949	7,232,953	73.3
5-10	0.0017	98,378	168	491,439	6,839,004	69.5
10-15	0.0018	98,210	174	490,683	6,347,565	64.6
15-20	0.0053	98,036	515	489,012	5,856,882	59.7
20-25	0.0068	97,521	666	485,961	5,367,870	55.0
25-30	0.0067	96,855	649	482,652	4,881,909	50.4
30-35	0.0070	96,206	672	479,423	4,399,257	45.7
35-40	0.0094	95,534	897	475,571	3,919,834	41.0
40-45	0.0147	94,637	1,396	469,925	3,444,263	36.4
45-50	0.0233	93,241	2,168	461,124	2,974,338	31.9
50-55	0.0367	91,073	3,342	447,529	2,513,214	27.6
55-60	0.0547	87,731	4,799	427,305	2,065,685	23.5
60-65	0.0848	82,932	7,036	397,881	1,638,380	19.8
65-70	0.1168	75,896	8,866	358,179	1,240,499	16.3
70-75	0.1726	67,030	11,573	307,134	882,320	13.2
75-80	0.2622	55,457	14,540	241,443	575,186	10.4
80-85	0.3646	40,917	14,919	166,683	333,743	8.2
85 and over	1.0000	25,998	25,998	167,060	167,060	6.4

Table 5. DEATH RATES BY MONTH: UNITED STATES, 1964-78

[For 1978, based on provisional figures; for all other years, based on final data. Rates on an annual basis per 1,000 population]

Month	1978	1977	1976	1975	1974	1973	1972 ¹	1971	1970	1969	1968	1967	1966	1965	1964
Annual	8.8	8.8	8.9	8.9	9.2	9.4	9.4	9.3	9.5	9.5	9.7	9.4	9.5	9.4	9.4
January	10.3	9.5	9.3	10.1	9.6	10.8	11.0	10.0	10.6	10.9	11.6	9.8	10.1	10.1	10.1
February	10.1	9.3	10.2	9.9	9.6	10.2	10.3	10.0	10.4	9.8	10.0	9.8	10.1	10.4	9.8
March	9.2	9.1	9.9	9.1	9.6	9.3	9.3	9.6	9.5	9.8	9.6	9.6	9.9	10.1	9.7
April	9.0	8.8	9.0	8.8	9.5	9.3	9.2	9.5	9.3	9.4	9.2	9.3	9.9	9.5	9.3
May	8.6	8.6	8.5	8.6	8.9	9.2	9.1	9.2	9.1	9.3	9.1	9.3	9.4	9.2	9.2
June	8.5	8.4	8.4	8.5	8.8	9.1	8.9	9.2	9.0	9.2	9.2	9.1	9.3	9.1	9.3
July	8.3	8.6	8.3	8.5	8.9	9.0	9.3	8.9	9.1	9.2	9.1	8.9	9.6	8.9	9.2
August	8.1	8.2	8.1	8.4	8.5	8.9	8.9	8.8	8.8	8.9	9.0	8.7	8.7	8.7	8.8
September	8.3	8.2	8.2	8.4	8.7	9.0	8.8	8.8	8.8	8.8	8.8	8.9	8.8	8.8	8.7
October	8.4	8.7	8.6	8.6	9.0	9.1	9.2	9.1	9.2	9.2	9.1	9.2	9.3	9.3	9.3
November	8.5	8.7	8.9	8.6	9.0	9.4	9.4	9.4	9.5	9.6	9.7	9.5	9.3	9.5	9.4
December	8.7	9.4	9.2	9.1	9.6	9.7	10.0	9.9	9.7	10.0	11.3	10.2	9.8	9.9	9.9

¹Based on a 50-percent sample of deaths.

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Table 6. DEATH RATES BY AGE, COLOR, AND SEX: UNITED STATES, 1950, 1960, AND 1970-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 1,000 population in specified group]

Color, 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												
1978 (est.).....	8.8	14.2	0.7	0.3	1.2	1.4	2.4	6.1	14.1	30.2	71.6	146.8
1977.....	8.8	14.9	0.7	0.3	1.2	1.4	2.5	6.2	14.3	30.6	71.8	147.3
1976.....	8.9	16.0	0.7	0.3	1.1	1.4	2.5	6.3	14.8	31.3	73.3	154.9
1975.....	8.9	16.4	0.7	0.4	1.2	1.4	2.7	6.5	15.0	31.9	73.6	151.9
1974.....	9.2	17.6	0.7	0.4	1.2	1.5	2.8	6.8	15.5	33.3	76.5	165.3
1973.....	9.4	18.1	0.8	0.4	1.3	1.5	3.0	7.0	16.1	34.4	79.3	174.3
1972 ²	9.4	18.3	0.8	0.4	1.3	1.5	3.0	7.1	16.3	35.3	79.7	173.5
1971.....	9.3	19.0	0.8	0.4	1.3	1.6	3.1	7.1	16.2	34.9	78.7	174.3
1970.....	9.5	21.4	0.8	0.4	1.3	1.6	3.1	7.3	16.6	35.8	80.0	163.4
1960.....	9.5	27.0	1.1	0.5	1.1	1.5	3.0	7.6	17.4	38.2	87.5	198.6
1950.....	9.6	33.0	1.4	0.6	1.3	1.8	3.6	8.5	³ 19.0	³ 41.0	93.3	202.0
MALE												
1978 (est.).....	9.9	15.3	0.7	0.4	1.8	1.9	3.2	8.0	18.8	41.9	93.7	170.8
1977.....	9.9	16.6	0.8	0.4	1.7	1.9	3.2	8.1	19.4	42.3	93.8	173.0
1976.....	10.1	17.6	0.8	0.4	1.7	1.9	3.3	8.3	20.0	43.4	95.1	179.8
1975.....	10.1	18.3	0.8	0.4	1.8	2.0	3.5	8.6	20.3	44.1	95.2	175.7
1974.....	10.4	19.7	0.8	0.5	1.8	2.1	3.6	8.9	21.1	45.8	97.9	188.8
1973.....	10.7	20.3	0.9	0.5	1.9	2.1	3.8	9.2	22.1	47.3	101.1	198.1
1972 ²	10.8	20.6	0.9	0.5	1.9	2.1	3.9	9.4	22.5	48.2	101.2	196.0
1971.....	10.7	21.4	0.9	0.5	1.9	2.1	3.9	9.3	22.3	47.6	99.2	197.5
1970.....	10.9	24.1	0.9	0.5	1.9	2.2	4.0	9.6	22.8	48.7	100.1	178.2
1960.....	11.0	30.6	1.2	0.6	1.5	1.9	3.7	9.9	23.1	49.1	101.8	211.9
1950.....	11.1	37.3	1.5	0.7	1.7	2.2	4.3	10.7	24.0	49.3	104.3	216.4
FEMALE												
1978 (est.).....	7.8	12.9	0.6	0.2	0.6	0.8	1.6	4.3	9.9	21.2	58.3	135.9
1977.....	7.7	13.0	0.6	0.3	0.6	0.8	1.8	4.4	9.9	21.5	58.5	135.4
1976.....	7.8	14.2	0.6	0.3	0.6	0.8	1.8	4.5	10.1	22.0	60.0	143.1
1975.....	7.7	14.4	0.6	0.3	0.6	0.9	1.9	4.6	10.1	22.5	60.3	140.3
1974.....	8.0	15.3	0.7	0.3	0.6	0.9	2.0	4.7	10.5	23.6	63.3	153.9
1973.....	8.1	15.7	0.7	0.3	0.7	0.9	2.2	4.9	10.8	24.5	65.6	162.3
1972 ²	8.1	15.9	0.7	0.3	0.7	1.0	2.2	5.0	10.8	25.3	65.8	162.0
1971.....	8.0	16.6	0.7	0.3	0.7	1.0	2.3	5.0	10.8	25.0	65.3	162.2
1970.....	8.1	18.6	0.8	0.3	0.7	1.0	2.3	5.2	11.0	25.8	66.8	155.2
1960.....	8.1	23.2	1.0	0.4	0.6	1.1	2.3	5.3	12.0	28.7	76.3	190.1
1950.....	8.2	28.5	1.3	0.5	0.9	1.4	2.9	6.4	14.0	33.3	84.0	191.9
WHITE												
1978 (est.).....	9.0	12.0	0.6	0.3	1.2	1.2	2.1	5.7	13.4	29.6	71.4	153.0
1977.....	8.9	12.7	0.6	0.3	1.1	1.2	2.1	5.7	13.6	29.9	71.6	152.9
1976.....	9.0	13.6	0.6	0.3	1.1	1.2	2.2	5.8	14.0	30.5	73.4	160.7
1975.....	9.0	14.1	0.6	0.3	1.1	1.2	2.3	6.0	14.2	31.0	73.8	157.1
1974.....	9.2	15.2	0.7	0.4	1.1	1.2	2.4	6.2	14.7	32.3	77.0	170.6
1973.....	9.4	15.7	0.7	0.4	1.2	1.3	2.5	6.3	15.3	33.4	79.8	179.3
1972 ²	9.5	15.8	0.7	0.4	1.2	1.3	2.6	6.5	15.5	34.3	80.2	178.6
1971.....	9.4	16.6	0.7	0.4	1.1	1.3	2.6	6.5	15.4	33.9	79.1	179.1
1970.....	9.5	18.7	0.8	0.4	1.2	1.3	2.7	6.7	15.8	34.9	80.4	168.7
1960.....	9.5	23.6	1.0	0.4	1.0	1.2	2.6	6.9	16.3	37.4	88.3	203.5
1950.....	9.5	29.9	1.2	0.6	1.1	1.5	3.1	7.7	18.0	40.2	94.2	206.8
WHITE, MALE												
1978 (est.).....	10.0	13.0	0.7	0.4	1.7	1.7	2.7	7.4	18.0	41.5	94.1	179.6
1977.....	10.0	14.3	0.7	0.4	1.7	1.7	2.8	7.5	18.5	41.8	94.4	180.4
1976.....	10.1	15.1	0.7	0.4	1.6	1.6	2.8	7.7	19.2	42.8	96.0	187.7
1975.....	10.2	15.9	0.7	0.4	1.7	1.7	3.0	7.9	19.5	43.6	96.1	182.6
1974.....	10.4	17.3	0.8	0.5	1.7	1.7	3.1	8.2	20.3	45.1	99.0	195.4
1973.....	10.7	17.8	0.8	0.5	1.8	1.8	3.2	8.4	21.2	46.5	102.1	204.4
1972 ²	10.8	18.0	0.8	0.5	1.7	1.7	3.3	8.6	21.6	47.5	102.3	202.7
1971.....	10.7	18.8	0.8	0.5	1.7	1.7	3.3	8.6	21.5	47.0	100.3	204.2
1970.....	10.9	21.1	0.8	0.5	1.7	1.8	3.4	8.8	22.0	48.1	101.0	185.5
1960.....	11.0	26.9	1.0	0.5	1.4	1.6	3.3	9.3	22.3	48.5	103.0	217.5
1950.....	10.9	34.0	1.4	0.7	1.5	1.9	3.8	9.8	23.0	48.6	105.3	221.2

See footnotes at end of table.

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Table 6. DEATH RATES BY AGE, COLOR, AND SEX: UNITED STATES, 1950, 1960, AND 1970-78—Con.

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 1,000 population in specified group]

Color, 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, FEMALE												
1978 (est.)	8.0	11.0	0.6	0.2	0.6	0.7	1.4	4.0	9.3	20.6	57.9	141.1
1977	7.8	10.9	0.6	0.3	0.6	0.7	1.5	4.0	9.2	20.7	58.1	140.4
1976	7.9	11.9	0.6	0.3	0.5	0.7	1.6	4.1	9.4	21.1	59.8	148.2
1975	7.8	12.2	0.6	0.3	0.6	0.7	1.6	4.1	9.4	21.5	60.3	144.9
1974	8.1	13.1	0.6	0.3	0.6	0.8	1.7	4.3	9.7	22.5	63.5	158.5
1973	8.2	13.4	0.6	0.3	0.6	0.8	1.8	4.4	10.0	23.2	65.8	166.9
1972 ²	8.2	13.4	0.6	0.3	0.6	0.8	1.9	4.4	10.0	24.2	66.2	166.6
1971	8.1	14.2	0.7	0.3	0.6	0.8	1.9	4.5	10.0	23.9	65.6	166.3
1970	8.1	16.1	0.7	0.3	0.6	0.8	1.9	4.6	10.1	24.7	67.0	159.8
1960	8.0	20.1	0.9	0.3	0.5	0.9	1.9	4.6	10.8	27.8	77.0	194.8
1950	8.0	25.7	1.1	0.5	0.7	1.1	2.4	5.5	12.9	32.4	84.8	196.8
ALL OTHER												
1978 (est.)	7.9	24.5	0.9	0.4	1.4	2.6	4.6	9.5	20.9	35.1	74.6	91.7
1977	8.1	25.5	1.0	0.4	1.4	2.6	4.8	10.3	21.3	37.1	73.8	96.0
1976	8.2	27.8	1.0	0.4	1.5	2.7	5.0	10.7	21.5	38.3	72.4	100.2
1975	8.3	27.7	1.0	0.5	1.6	3.0	5.3	10.8	21.8	39.7	70.8	101.0
1974	8.7	29.2	1.1	0.5	1.7	3.1	5.7	11.5	22.9	42.7	70.8	112.5
1973	9.1	30.2	1.2	0.5	1.9	3.3	6.1	12.4	24.0	44.7	74.2	121.4
1972 ²	9.2	31.3	1.2	0.5	2.0	3.5	6.4	12.6	24.1	44.9	73.4	118.5
1971	9.2	32.5	1.3	0.5	2.1	3.6	6.5	12.4	23.8	44.1	72.7	119.9
1970	9.4	36.0	1.3	0.5	2.0	3.5	6.6	12.9	24.3	44.9	75.1	107.5
1960	10.1	46.3	1.9	0.6	1.6	3.2	6.3	13.4	27.7	47.8	76.3	139.1
1950	11.2	53.7	2.5	0.9	2.5	4.4	8.1	17.1	³ 31.3	³ 52.1	80.4	144.7
ALL OTHER, MALE												
1978 (est.)	9.4	26.8	0.9	0.6	2.1	3.8	6.6	12.6	26.9	45.1	89.7	101.0
1977	9.7	27.8	1.1	0.5	2.1	4.0	6.7	13.5	27.7	46.8	87.8	112.9
1976	9.8	30.1	1.1	0.5	2.2	4.1	6.9	14.0	28.1	48.5	86.5	115.2
1975	10.0	30.0	1.1	0.6	2.4	4.5	7.4	14.2	28.1	49.7	86.0	116.9
1974	10.4	32.1	1.2	0.6	2.6	4.7	7.7	15.0	29.4	52.9	85.6	127.8
1973	10.8	33.4	1.4	0.7	2.8	5.0	8.2	15.9	30.7	54.6	89.7	136.1
1972 ²	11.0	34.4	1.3	0.6	3.0	5.1	8.7	16.4	30.7	54.9	89.4	133.3
1971	10.9	36.1	1.4	0.7	3.1	5.2	8.5	15.7	30.1	53.8	87.5	133.5
1970	11.2	40.2	1.4	0.7	3.0	5.0	8.7	16.5	30.5	54.7	89.8	114.1
1960	11.5	51.9	2.1	0.8	2.1	3.9	7.3	15.5	31.5	56.6	86.6	152.4
1950	12.5	59.9	2.7	1.0	2.9	5.0	8.6	18.6	34.8	57.9	90.3	160.2
ALL OTHER, FEMALE												
1978 (est.)	6.6	22.2	0.9	0.3	0.8	1.6	3.0	6.7	15.7	27.2	63.6	86.1
1977	6.7	23.0	0.9	0.3	0.8	1.5	3.3	7.5	15.7	29.3	63.7	86.7
1976	6.8	25.4	0.9	0.3	0.8	1.6	3.4	7.7	15.9	30.1	62.2	91.8
1975	6.8	25.2	0.9	0.3	0.9	1.6	3.6	7.8	16.4	31.7	59.8	91.8
1974	7.2	26.1	1.0	0.4	0.9	1.8	4.0	8.5	17.2	34.4	60.2	103.4
1973	7.6	27.0	1.1	0.4	1.0	1.9	4.4	9.3	18.2	36.6	62.9	111.2
1972 ²	7.6	28.2	1.1	0.4	1.0	2.1	4.6	9.3	18.3	36.8	61.8	109.4
1971	7.6	29.0	1.1	0.4	1.1	2.2	4.8	9.5	18.3	36.3	62.0	112.7
1970	7.8	31.7	1.2	0.4	1.1	2.2	4.9	9.8	18.9	36.8	63.9	102.9
1960	8.7	40.7	1.7	0.5	1.1	2.6	5.5	11.4	24.1	39.8	67.1	128.7
1950	9.9	47.5	2.3	0.8	2.2	3.9	7.5	15.5	27.6	46.1	70.6	133.7

¹ Figures for age not stated included in "All ages" but not distributed among age groups.² Based on a 50-percent sample of deaths.³ For 1950, rates for "Total" and "All other" based on enumerated population adjusted for age bias in the "All other" population at ages 55-69 years.

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Table 7. DEATHS AND DEATH RATES, BY AGE, COLOR, AND SEX: UNITED STATES, 1978

[Based on a 10-percent sample of deaths. Rates per 1,000 population in specified group. Due to rounding estimates of deaths, figures may not add to totals]

Age	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
NUMBER									
All ages	1,924,000	1,051,890	872,010	1,689,650	919,120	770,530	234,250	132,770	101,480
Under 1 year	45,300	25,110	20,180	31,790	17,630	14,160	13,500	7,480	6,020
1-4 years	8,140	4,370	3,770	6,160	3,370	2,790	1,980	1,000	980
5-14 years	12,320	8,110	4,210	9,660	6,230	3,430	2,660	1,880	780
15-24 years	49,600	36,770	12,870	40,930	30,490	10,440	8,710	6,280	2,430
25-34 years	46,200	32,400	13,840	34,720	24,700	10,020	11,520	7,700	3,820
35-44 years	58,180	37,880	20,530	43,980	28,590	15,390	14,230	9,090	5,140
45-54 years	141,440	89,960	51,530	116,020	74,170	41,850	25,470	15,790	9,680
55-59 years	125,940	79,880	46,260	106,090	67,670	38,420	19,850	12,010	7,840
60-64 years	166,380	104,500	61,880	143,910	91,350	52,560	22,470	13,160	9,320
65-69 years	211,730	131,660	80,070	186,640	117,000	69,640	25,090	14,660	10,430
70-74 years	239,020	139,920	99,100	212,490	125,300	87,190	26,530	14,620	11,910
75-79 years	250,310	131,640	118,670	225,970	119,140	106,830	24,340	12,500	11,840
80-84 years	244,820	112,020	132,800	227,450	103,430	124,020	17,370	8,590	8,780
85 years and over	323,820	117,700	206,120	303,360	109,720	193,640	20,460	7,980	12,480
Not stated	660	430	240	540	350	190	130	80	50
RATE									
All ages ¹	8.8	9.9	7.8	9.0	10.0	8.0	7.9	9.4	6.6
Under 1 year	14.2	15.3	12.9	12.0	13.0	11.0	24.5	26.8	22.2
1-4 years	0.7	0.7	0.6	0.6	0.7	0.6	0.9	0.9	0.9
5-14 years	0.3	0.4	0.2	0.3	0.4	0.2	0.4	0.6	0.3
15-24 years	1.2	1.8	0.6	1.2	1.7	0.6	1.4	2.1	0.8
25-34 years	1.4	1.9	0.8	1.2	1.7	0.7	2.6	3.8	1.6
35-44 years	2.4	3.2	1.6	2.1	2.7	1.4	4.6	6.6	3.0
45-54 years	6.1	8.0	4.3	5.7	7.4	4.0	9.5	12.6	6.7
55-59 years	11.2	14.9	7.9	10.5	14.0	7.3	17.4	22.6	12.9
60-64 years	17.6	23.7	12.3	16.8	22.8	11.6	25.3	32.5	19.3
65-69 years	24.7	34.6	16.8	24.4	34.4	16.4	27.1	36.2	20.1
70-74 years	37.6	52.1	27.0	36.5	51.4	25.8	48.6	59.9	39.6
75-79 years	60.1	80.9	46.7	58.8	80.3	45.3	74.2	86.8	64.3
80-84 years	89.2	115.1	74.9	90.5	117.3	76.0	75.2	94.4	62.7
85 years and over	146.8	170.8	135.9	153.0	179.6	141.1	91.7	101.0	86.1

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

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Table 8. AGE-SPECIFIC AND AGE-ADJUSTED DEATH RATES FOR 15 LEADING CAUSES AND SELECTED COMPONENTS: UNITED STATES, 1968, 1977, AND 1978

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population in specified group]

Cause of death	Year	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	Age-adjusted rate ¹
All causes.....	1978	882.3	1,417.0	43.0	120.3	136.8	239.2	610.3	1,414.2	3,018.1	7,161.0	14,679.1	605.5
	1977	878.1	1,485.6	43.1	117.1	136.2	247.5	620.7	1,434.9	3,055.6	7,181.9	14,725.9	612.3
	1968	967.9	2,265.7	55.3	123.7	157.2	319.8	751.3	1,704.4	3,724.0	8,293.5	19,582.7	743.8
Diseases of heart.....390-398,402,404,410-429	1978	333.9	18.5	1.0	2.5	7.3	46.3	193.6	519.5	1,225.7	3,190.5	7,088.4	207.3
	1977	332.3	23.1	1.1	2.5	8.5	49.3	194.1	530.8	1,250.5	3,198.3	7,095.8	210.4
	1968	373.5	12.3	1.2	2.8	11.9	70.8	251.7	686.9	1,632.8	3,825.4	9,278.3	268.5
Active rheumatic fever and chronic rheumatic heart disease.....390-398	1978	5.9	-	0.0	0.2	0.7	2.0	5.9	12.2	26.7	44.5	46.2	4.3
	1977	5.9	0.0	0.1	0.4	0.9	2.5	5.9	13.6	26.3	40.4	45.4	4.5
	1968	8.2	0.3	0.2	0.7	2.3	5.7	13.3	24.9	31.6	45.9	45.3	7.2
Hypertensive heart disease.....402	1978	3.2	-	-	-	0.1	0.9	1.8	5.8	10.6	30.7	59.8	2.0
	1977	3.2	-	0.0	0.0	0.2	0.7	2.1	5.0	12.2	30.6	61.5	2.1
	1968	4.9	0.1	0.0	0.1	0.3	1.3	3.4	8.6	20.8	50.7	123.4	3.6
Hypertensive heart and renal disease.....404	1978	1.4	-	-	-	0.0	0.1	0.2	0.8	4.2	17.6	46.7	0.7
	1977	1.6	-	0.0	0.0	0.0	0.1	0.4	1.3	4.5	18.4	58.8	0.9
	1968	4.0	-	0.0	0.0	0.1	0.4	1.3	3.9	13.4	49.2	175.6	2.5
Ischemic heart disease.....410-413	1978	294.0	0.6	-	0.4	3.8	35.1	164.9	452.4	1,084.2	2,849.4	6,362.2	180.8
	1977	295.1	0.6	0.0	0.4	4.2	38.4	166.3	466.5	1,116.4	2,889.5	6,420.1	185.0
	1968	338.4	0.9	0.1	0.5	6.4	56.7	218.0	616.9	1,502.0	3,533.2	8,483.0	241.6
Chronic disease of endocardium and other myocardial insufficiency.....424,428	1978	1.9	1.6	0.1	0.1	0.1	0.5	1.1	3.1	5.7	15.9	43.1	1.2
	1977	1.9	1.0	0.1	0.2	0.3	0.6	1.1	2.6	5.5	15.8	46.6	1.2
	1968	3.9	1.2	0.1	0.2	0.5	1.0	2.4	5.5	12.8	39.7	150.3	2.8
All other forms of heart disease.....420-423,425-427,429	1978	27.6	16.3	0.8	1.8	2.5	7.7	19.6	45.2	94.3	232.3	530.4	18.2
	1977	24.6	21.5	0.9	1.6	2.9	7.0	18.3	41.8	85.5	203.6	463.4	16.8
	1968	14.1	9.9	0.7	1.3	2.3	5.7	13.2	27.2	52.3	116.8	300.8	10.9
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....140-209	1978	181.6	2.5	4.7	6.4	13.6	47.3	180.9	439.3	802.9	1,302.7	1,462.4	133.2
	1977	178.7	3.8	4.9	6.5	14.5	50.9	182.5	440.5	792.6	1,267.5	1,445.6	133.0
	1968	159.8	4.9	6.8	8.2	17.3	61.0	183.0	413.5	749.2	1,133.8	1,475.3	129.2
Malignant neoplasms of buccal cavity and pharynx.....140-149	1978	3.9	-	0.0	0.0	0.1	1.1	5.2	12.3	18.2	19.8	19.5	3.0
	1977	3.9	0.0	0.0	0.1	0.2	1.0	5.4	12.7	16.6	19.8	24.1	3.1
	1968	3.7	0.1	0.0	0.1	0.1	1.1	5.7	12.0	14.9	20.6	33.9	3.0
Malignant neoplasms of digestive organs and peritoneum.....150-159	1978	48.1	-	0.1	0.2	1.5	7.7	36.6	103.4	217.5	413.5	521.8	33.1
	1977	47.6	0.4	0.1	0.4	1.8	8.9	36.1	105.6	218.0	405.5	508.4	33.4
	1968	46.9	0.5	0.1	0.4	2.1	10.3	40.3	112.0	238.8	416.8	573.5	36.0
Malignant neoplasms of respiratory system.....160-163	1978	45.3	-	0.0	0.1	0.9	9.6	56.2	137.2	232.0	246.0	139.6	35.0
	1977	44.0	0.1	0.0	0.1	1.0	10.6	55.1	137.3	219.2	237.3	156.3	34.3
	1968	31.8	0.2	0.1	0.2	1.1	11.0	43.3	107.8	166.3	159.5	116.8	26.7
Malignant neoplasm of breast174	1978	16.0	-	-	0.1	1.9	7.7	25.1	44.6	56.9	93.1	111.1	12.6
	1977	16.1	-	0.0	0.0	1.8	8.9	27.0	44.1	58.3	85.1	117.0	12.9
	1968	14.6	0.1	0.0	0.0	2.0	10.8	27.7	40.8	53.4	74.6	117.1	12.6
Malignant neoplasms of genital organs.....180-187	1978	20.5	-	0.0	0.6	1.4	5.2	13.7	39.2	87.5	184.1	252.0	13.9
	1977	20.5	0.0	0.1	0.7	1.9	5.0	15.0	39.9	88.4	185.5	237.6	14.3
	1968	20.5	0.1	0.1	0.8	2.8	8.5	20.6	43.2	94.7	179.8	259.2	16.1
Malignant neoplasms of urinary organs.....188,189	1978	7.8	-	0.2	0.1	0.3	1.2	4.6	16.6	34.2	69.7	96.1	5.3
	1977	8.0	0.1	0.1	0.1	0.2	1.3	5.9	16.2	37.1	71.8	91.7	5.6
	1968	7.4	0.3	0.3	0.1	0.3	1.4	5.8	16.9	38.3	66.8	92.6	5.7
Malignant neoplasms of all other and unspecified sites.....170-173,190-199	1978	22.5	1.6	2.1	2.3	3.5	9.0	25.4	52.3	88.1	146.9	168.6	17.2
	1977	21.9	1.9	2.0	2.3	3.7	9.2	24.0	51.3	87.6	138.0	174.9	16.9
	1968	18.7	1.8	2.4	2.6	3.9	9.7	23.3	47.2	76.0	112.0	162.6	15.7
Leukemia.....204-207	1978	7.2	0.6	1.8	1.6	1.8	3.3	5.4	12.0	24.8	52.1	78.4	5.4
	1977	7.1	1.0	2.1	1.7	1.8	2.7	5.2	11.5	25.2	53.3	69.7	5.4
	1968	7.2	1.6	3.1	2.1	2.0	3.3	5.6	12.2	27.4	49.2	71.6	5.9
Other neoplasms of lymphatic and hematopoietic tissues.....200-203,208,209	1978	10.1	0.3	0.4	1.3	2.1	2.5	8.8	21.6	43.6	77.4	75.2	7.5
	1977	9.7	0.2	0.4	1.1	2.1	3.3	8.8	22.0	42.1	71.2	65.9	7.4
	1968	8.9	0.3	0.6	1.9	3.1	4.9	10.6	21.5	39.5	54.4	48.0	7.6

See footnote at end of table.

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Table 8. AGE-SPECIFIC AND AGE-ADJUSTED DEATH RATES FOR 15 LEADING CAUSES AND SELECTED COMPONENTS: UNITED STATES, 1968, 1977, AND 1978—Con.

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population in specified group]

Cause of death	Year	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	Age-adjusted rate ¹
Cerebrovascular diseases.....430-438	1978	79.1	2.8	0.4	1.0	2.6	9.8	26.2	72.0	241.2	896.7	2,247.1	44.4
	1977	84.1	5.3	0.6	1.2	3.1	10.3	28.7	79.5	259.9	970.7	2,425.2	48.2
	1968	106.0	5.3	0.7	1.7	4.9	16.5	44.6	121.7	409.5	1,317.6	3,605.9	71.3
Accidents.....E800-E949	1978	49.5	38.8	20.5	67.9	45.4	39.8	40.4	46.2	64.6	132.3	278.3	45.3
	1977	47.7	37.1	19.8	62.5	44.2	37.8	40.3	47.8	61.8	134.4	284.2	43.8
	1968	57.6	74.9	23.7	69.2	52.5	47.6	53.6	64.7	90.0	188.8	513.7	55.0
Motor vehicle accidents.....E810-E823	1978	24.6	9.1	9.4	48.8	28.6	20.6	18.0	17.6	23.8	32.1	20.9	24.0
	1977	22.9	8.0	9.0	44.1	26.1	18.9	17.7	18.9	21.0	31.6	25.5	22.4
	1968	27.5	9.5	10.4	49.8	32.6	24.9	25.8	28.5	35.0	47.4	39.7	28.4
All other accidents.....E800-E807,E825-E949	1978	24.9	29.7	11.1	19.1	16.8	19.2	22.4	28.6	40.7	100.2	257.5	21.3
	1977	24.8	29.1	10.8	18.4	18.2	18.9	22.6	28.9	40.8	102.7	258.7	21.4
	1968	30.1	65.4	13.3	19.5	19.9	22.7	27.8	36.2	55.0	141.5	474.0	26.7
Influenza and pneumonia.....470-474,480-486	1978	26.7	49.1	1.4	1.1	2.3	4.3	10.0	23.6	65.2	262.5	848.6	15.4
	1977	23.7	53.2	1.5	1.3	2.0	4.4	9.6	21.9	58.5	236.2	731.2	14.2
	1968	36.9	234.9	4.0	2.8	4.4	9.3	19.9	41.9	106.6	330.7	1,167.8	26.9
Diabetes mellitus.....250	1978	15.0	0.3	0.2	0.4	1.5	3.9	8.8	27.7	61.3	139.0	204.4	10.1
	1977	15.2	0.3	0.1	0.4	1.5	3.7	9.6	27.2	65.9	142.8	203.8	10.4
	1968	19.2	0.5	0.2	0.7	2.6	5.3	13.1	38.7	96.3	188.2	257.9	14.6
Cirrhosis of liver.....571	1978	13.7	0.6	0.0	0.2	3.3	13.4	32.2	45.1	41.3	31.1	13.6	12.4
	1977	14.3	1.0	0.1	0.3	3.8	15.3	33.8	45.4	42.6	30.2	16.9	13.1
	1968	14.6	1.5	0.1	0.4	4.2	18.1	36.8	46.1	40.3	29.6	22.7	13.9
Arteriosclerosis.....440	1978	13.4	-	-	-	-	0.2	0.8	4.5	26.0	147.7	632.8	6.1
	1977	13.3	-	0.0	0.0	0.0	0.2	1.1	5.3	25.4	146.0	659.2	6.2
	1968	16.8	0.0	0.0	0.0	0.0	0.2	1.2	6.8	40.7	220.7	1,121.7	9.6
Suicide.....E950-E959	1978	12.6	...	0.3	12.7	16.8	17.3	16.7	17.0	19.3	20.7	24.0	12.2
	1977	13.3	...	0.4	13.6	17.7	16.8	18.9	19.4	20.1	21.5	17.3	12.9
	1968	10.7	...	0.2	7.1	12.0	16.1	19.7	21.5	19.0	21.3	22.1	10.9
Certain causes of mortality in early infancy.....760-769,2,769.4-772,774-778	1978	10.1	686.0	0.2	-	-	-	-	-	-	-	-	} (2)
	1977	10.8	738.6	0.1	-	-	-	-	0.0	-	-	-	
	1968	22.0	1,298.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Bronchitis, emphysema, and asthma.....490-493	1978	10.0	0.9	0.2	0.4	0.3	0.9	4.8	20.6	51.4	90.4	85.7	6.8
	1977	10.3	2.2	0.2	0.3	0.4	1.3	5.1	20.4	54.4	94.3	91.7	7.2
	1968	16.6	5.2	0.5	0.5	1.0	2.9	10.9	40.8	94.4	139.1	154.5	12.8
Homicide.....E960-E978	1978	9.7	4.1	1.8	12.8	18.4	14.6	9.4	7.7	5.2	4.6	6.3	9.9
	1977	9.2	5.6	1.6	12.7	16.5	14.5	9.8	7.4	5.2	4.9	4.7	9.6
	1968	7.4	4.8	0.9	10.1	15.3	12.9	9.1	6.3	4.4	3.4	3.7	8.3
Congenital anomalies.....740-759	1978	5.9	261.2	3.9	1.3	1.2	0.9	1.3	2.2	2.2	3.5	2.3	} (2)
	1977	6.0	266.3	3.6	1.6	1.3	1.3	1.6	2.1	2.4	2.6	3.7	
	1968	8.4	328.3	4.4	2.1	1.8	1.8	2.6	3.0	2.8	3.5	5.3	
Nephritis and nephrosis.....580-584	1978	3.7	2.8	0.1	0.3	0.7	0.8	2.7	6.5	13.6	29.2	59.9	2.5
	1977	3.9	2.0	0.1	0.3	0.6	1.2	2.8	6.5	14.9	34.8	61.7	2.7
	1968	4.7	0.8	0.3	1.0	1.5	3.4	5.2	9.2	15.8	32.1	74.5	3.9
Septicemia.....038	1978	3.6	31.3	0.2	0.3	0.3	1.2	2.3	4.7	10.2	27.6	57.1	2.6
	1977	3.3	34.4	0.2	0.2	0.3	0.8	1.9	4.5	9.5	25.3	49.4	2.4
	1968	1.5	23.8	0.3	0.2	0.3	0.5	0.9	2.0	4.2	8.4	17.0	1.2
All other causes.....Residual	1978	113.8	318.1	8.5	13.3	23.1	38.7	80.2	177.6	388.2	882.4	1,669.1	80.8
	1977	111.9	312.7	8.8	13.8	21.7	39.6	81.0	176.5	392.0	872.4	1,635.7	80.8
	1968	112.3	269.9	11.8	16.8	27.4	53.4	99.0	201.0	418.6	850.8	1,862.2	89.8

¹For method of computation, see Explanatory Notes.

²Since deaths from these causes occur primarily among infants, rates adjusted to the total population in 1940 are not shown. See Table H.

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Table 9. DEATHS FOR SELECTED CAUSES: UNITED STATES, 1973-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data]

Cause of death	Number					
	1978 (est.)	1977	1976	1975	1974	1973
All causes.....	1,924,000	1,899,597	1,909,440	1,892,879	1,934,388	1,973,003
Bacillary dysentery and amebiasis.....004-006	50	53	55	62	57	64
Enteritis and other diarrheal diseases.....008-009	1,650	1,855	1,939	2,010	2,255	2,322
Tuberculosis, all forms.....010-019	2,830	2,968	3,130	3,333	3,513	3,875
Tuberculosis of respiratory system.....010-012	2,150	2,324	2,419	2,576	2,775	3,009
Tuberculosis, other forms.....013-019	680	644	711	757	738	866
Whooping cough.....033	20	10	7	8	14	5
Streptococcal sore throat and scarlet fever.....034	-	14	14	15	22	20
Meningococcal infections.....036	380	338	330	308	305	330
Septicemia.....038	7,780	7,112	6,401	5,584	5,243	4,560
Acute poliomyelitis.....040-043	-	16	16	9	3	10
Measles.....055	10	15	12	20	20	23
Infectious hepatitis.....070	430	508	567	612	630	656
Syphilis and its sequelae.....090-097	190	196	225	272	300	393
Other infective and parasitic diseases..... Remainder of 000-136	4,280	3,845	3,857	3,697	3,360	3,411
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues....140-209	396,060	386,686	377,312	365,693	360,472	351,055
Malignant neoplasms of buccal cavity and pharynx.....140-149	8,590	8,454	8,114	8,135	7,968	7,822
Malignant neoplasms of digestive organs and peritoneum.....150-159	104,990	102,951	101,729	99,629	98,913	96,549
Malignant neoplasms of respiratory system.....160-163	98,820	95,182	91,131	86,675	83,475	79,335
Malignant neoplasm of breast.....174	34,950	34,762	33,403	32,435	32,424	32,143
Malignant neoplasms of genital organs.....180-187	44,670	44,273	44,461	42,994	43,111	42,591
Malignant neoplasms of urinary organs.....188,189	17,080	17,382	16,980	16,533	16,457	15,877
Malignant neoplasms of all other and unspecified sites.....170-173,190-199	49,100	47,276	45,975	44,585	43,620	42,693
Leukemia.....204-207	15,780	15,329	15,056	14,754	14,575	14,478
Other neoplasms of lymphatic and hematopoietic tissues.....200-203,208,209	22,080	21,077	20,463	19,953	19,929	19,567
Benign neoplasms and neoplasms of unspecified nature.....210-239	5,400	4,925	4,719	4,947	5,060	5,013
Diabetes mellitus.....250	32,780	32,989	34,508	35,230	37,329	38,208
Avitaminoses and other nutritional deficiencies.....260-269	2,860	2,606	2,619	2,615	2,527	2,576
Anemias.....280-285	3,170	3,121	3,182	3,195	3,312	3,318
Meningitis.....320	1,590	1,526	1,589	1,630	1,539	1,523
Major cardiovascular diseases.....390-448	962,340	961,539	974,429	971,047	1,010,926	1,037,492
Diseases of heart.....390-398,402,404,410-429	728,190	718,850	723,878	716,215	738,171	757,075
Active rheumatic fever and chronic rheumatic heart disease.....390-398	12,790	12,770	13,110	12,930	13,302	13,739
Hypertensive heart disease.....402	6,910	6,905	6,670	6,693	7,167	7,268
Hypertensive heart and renal disease.....404	3,110	3,530	4,020	4,334	4,916	5,515
Ischemic heart disease.....410-413	641,140	638,427	646,073	642,719	664,854	684,066
Acute myocardial infarction.....410	303,630	306,398	319,477	324,652	334,196	351,662
Other acute and subacute forms of ischemic heart disease.....411	4,130	3,993	4,028	4,069	4,418	4,503
Chronic ischemic heart disease.....412	333,150	327,830	322,382	313,847	326,065	327,722
Angina pectoris.....413	230	206	186	151	175	179
Chronic disease of endocardium and other myocardial insufficiency.....424,428	4,110	4,024	4,195	4,411	4,895	5,137
All other forms of heart disease.....420-423,425-427,429	60,130	53,194	49,810	45,128	43,037	41,350
Hypertension.....400,401,403	5,460	5,695	6,130	6,300	6,894	7,428
Cerebrovascular diseases.....430-438	172,520	181,934	188,623	194,038	207,424	214,313
Cerebral hemorrhage.....431	21,520	23,832	24,845	26,862	30,515	33,909
Cerebral thrombosis.....433	37,690	42,016	44,803	48,457	53,542	56,648
Cerebral embolism.....434	740	731	826	811	910	967
All other cerebrovascular diseases.....430,432,435-438	112,570	115,355	118,149	117,908	122,457	122,789
Arteriosclerosis.....440	29,190	28,754	29,366	28,887	32,239	32,617
Other diseases of arteries, arterioles, and capillaries.....441-448	26,980	26,306	26,432	25,607	26,198	26,059
Acute bronchitis and bronchiolitis.....466	660	697	854	737	750	905
Influenza and pneumonia.....470-474,480-486	58,290	51,193	61,866	55,664	54,777	62,559
Influenza.....470-474	3,960	1,304	7,877	4,277	2,201	5,131
Pneumonia.....480-486	54,330	49,889	53,989	51,387	52,576	57,428

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Table 9. DEATHS FOR SELECTED CAUSES: UNITED STATES, 1973-78-Con.

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data]

Cause of death	Number					
	1978 (est.)	1977	1976	1975	1974	1973
Bronchitis, emphysema, and asthma.....490-493	21,810	22,363	24,410	25,468	26,880	29,708
Chronic and unqualified bronchitis.....490-491	4,050	4,313	4,639	4,712	5,097	5,547
Emphysema.....492	15,970	16,376	17,796	18,795	19,907	22,249
Asthma.....493	1,790	1,674	1,975	1,961	1,876	1,912
Peptic ulcer.....531-533	5,660	5,900	6,428	6,743	7,069	7,688
Appendicitis.....540-543	730	747	752	822	864	1,066
Hernia and intestinal obstruction.....550-553,560	5,330	5,699	5,919	6,178	6,506	6,746
Cirrhosis of liver.....571	29,910	30,848	31,453	31,623	33,319	33,350
Cholelithiasis, cholecystitis and cholangitis.....574,575	2,800	2,957	2,956	3,004	3,194	3,422
Nephritis and nephrosis.....580-584	8,010	8,519	8,541	8,072	8,068	8,336
Acute nephritis and nephrotic syndrome.....580-581	2,020	1,833	1,759	1,585	1,541	1,536
Chronic and unqualified nephritis and renal sclerosis.....582-584	5,990	6,686	6,782	6,487	6,527	6,800
Infections of kidney.....590	3,130	3,712	4,017	4,502	5,451	6,134
Hyperplasia of prostate.....600	880	998	1,077	1,221	1,377	1,589
Complications of pregnancy, childbirth, and the puerperium.....630-678	320	373	390	403	462	477
Abortions.....640-645	50	20	16	27	27	36
Other complications of pregnancy, childbirth, and the puerperium.....630-639,650-678	270	353	374	376	435	441
Congenital anomalies.....740-759	12,780	12,983	13,002	13,245	13,526	14,062
Certain causes of mortality in early infancy.....760-769,2,769.4-772,774-778	22,010	23,401	24,809	26,616	28,786	30,503
Birth injury, difficult labor, and other anoxic and hypoxic conditions.....764-768,772,776	11,640	12,633	13,432	14,593	15,974	16,933
Other causes of mortality in early infancy.....Remainder of 760-778	10,370	10,768	11,377	12,023	12,812	13,570
Symptoms and ill-defined conditions.....780-796	31,460	32,149	30,802	31,768	31,145	30,399
All other diseases.....Residual	138,200	130,428	125,340	120,263	118,396	114,751
Accidents.....E800-E949	107,930	103,202	100,761	103,030	104,622	115,821
Motor vehicle accidents.....E810-E823	53,610	49,510	47,038	45,853	46,402	55,511
All other accidents.....E800-E807,E825-E949	54,320	53,692	53,723	57,177	58,220	60,310
Suicide.....E950-E959	27,500	28,681	26,832	27,063	25,683	25,118
Homicide.....E960-E978	21,080	19,968	19,554	21,310	21,465	20,465
Other external causes.....E980-E999	3,460	4,457	4,766	4,860	5,161	5,050

MONTHLY VITAL STATISTICS REPORT

Table 10. DEATH RATES FOR SELECTED CAUSES: UNITED STATES, 1973-78

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population]

Cause of death	Rate					
	1978 (est.)	1977	1976	1975	1974	1973
All causes	882.3	878.1	889.6	888.5	915.1	940.2
Bacillary dysentery and amebiasis..... 004-006	0.0	0.0	0.0	0.0	0.0	0.0
Enteritis and other diarrheal diseases..... 008,009	0.8	0.9	0.9	0.9	1.1	1.1
Tuberculosis, all forms..... 010-019	1.3	1.4	1.5	1.6	1.7	1.8
Tuberculosis of respiratory system..... 010-012	1.0	1.1	1.1	1.2	1.3	1.4
Tuberculosis, other forms..... 013-019	0.3	0.3	0.3	0.4	0.3	0.4
Whooping cough..... 033	0.0	0.0	0.0	0.0	0.0	0.0
Streptococcal sore throat and scarlet fever..... 034	-	0.0	0.0	0.0	0.0	0.0
Meningococcal infections..... 036	0.2	0.2	0.2	0.1	0.1	0.2
Septicemia..... 038	3.6	3.3	3.0	2.6	2.5	2.2
Acute poliomyelitis..... 040-043	-	0.0	0.0	0.0	0.0	0.0
Measles..... 055	0.0	0.0	0.0	0.0	0.0	0.0
Infectious hepatitis..... 070	0.2	0.2	0.3	0.3	0.3	0.3
Syphilis and its sequelae..... 090-097	0.1	0.1	0.1	0.1	0.1	0.2
Other infective and parasitic diseases..... Remainder of 000-136	2.0	1.8	1.8	1.7	1.6	1.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-209	181.6	178.7	175.8	171.7	170.5	167.3
Malignant neoplasms of buccal cavity and pharynx..... 140-149	3.9	3.9	3.8	3.8	3.8	3.7
Malignant neoplasms of digestive organs and peritoneum..... 150-159	48.1	47.6	47.4	46.8	46.8	46.0
Malignant neoplasms of respiratory system..... 160-163	45.3	44.0	42.5	40.7	39.5	37.8
Malignant neoplasm of breast..... 174	16.0	16.1	15.6	15.2	15.3	15.3
Malignant neoplasms of genital organs..... 180-187	20.5	20.5	20.7	20.2	20.4	20.3
Malignant neoplasms of urinary organs..... 188,189	7.8	8.0	7.9	7.8	7.8	7.6
Malignant neoplasms of all other and unspecified sites..... 170-173,190-199	22.5	21.9	21.4	20.9	20.6	20.3
Leukemia..... 204-207	7.2	7.1	7.0	6.9	6.9	6.9
Other neoplasms of lymphatic and hematopoietic tissues..... 200-203,208,209	10.1	9.7	9.5	9.4	9.4	9.3
Benign neoplasms and neoplasms of unspecified nature..... 210-239	2.5	2.3	2.2	2.3	2.4	2.4
Diabetes mellitus..... 250	15.0	15.2	16.1	16.5	17.7	18.2
Avitaminoses and other nutritional deficiencies..... 260-269	1.3	1.2	1.2	1.2	1.2	1.2
Anemias..... 280-285	1.5	1.4	1.5	1.5	1.6	1.6
Meningitis..... 320	0.7	0.7	0.7	0.8	0.7	0.7
Major cardiovascular diseases..... 390-448	441.3	444.5	454.0	455.8	478.2	494.4
Diseases of heart..... 390-398,402,404,410-429	333.9	332.3	337.2	336.2	349.2	360.8
Active rheumatic fever and chronic rheumatic heart disease..... 390-398	5.9	5.9	6.1	6.1	6.3	6.5
Hypertensive heart disease..... 402	3.2	3.2	3.1	3.1	3.4	3.5
Hypertensive heart and renal disease..... 404	1.4	1.6	1.9	2.0	2.3	2.6
Ischemic heart disease..... 410-413	294.0	295.1	301.0	301.7	314.5	326.0
Acute myocardial infarction..... 410	139.2	141.6	148.8	152.4	158.1	167.6
Other acute and subacute forms of ischemic heart disease..... 411	1.9	1.8	1.9	1.9	2.1	2.1
Chronic ischemic heart disease..... 412	152.8	151.5	150.2	147.3	154.2	156.2
Angina pectoris..... 413	0.1	0.1	0.1	0.1	0.1	0.1
Chronic disease of endocardium and other myocardial insufficiency..... 424,428	1.9	1.9	2.0	2.1	2.3	2.4
All other forms of heart disease..... 420-423,425-427,429	27.6	24.6	23.2	21.2	20.4	19.7
Hypertension..... 400,401,403	2.5	2.6	2.9	3.0	3.3	3.5
Cerebrovascular diseases..... 430-438	79.1	84.1	87.9	91.1	98.1	102.1
Cerebral hemorrhage..... 431	9.9	11.0	11.6	12.6	14.4	16.2
Cerebral thrombosis..... 433	17.3	19.4	20.9	22.7	25.3	27.0
Cerebral embolism..... 434	0.3	0.3	0.4	0.4	0.4	0.5
All other cerebrovascular diseases..... 430,432,435-438	51.6	53.3	55.0	55.3	57.9	58.5
Arteriosclerosis..... 440	13.4	13.3	13.7	13.6	15.3	15.5
Other diseases of arteries, arterioles, and capillaries..... 441-448	12.4	12.2	12.3	12.0	12.4	12.4
Acute bronchitis and bronchiolitis..... 466	0.3	0.3	0.4	0.3	0.4	0.4
Influenza and pneumonia..... 470-474,480-486	26.7	23.7	28.8	26.1	25.9	29.8
Influenza..... 470-474	1.8	0.6	3.7	2.0	1.0	2.4
Pneumonia..... 480-486	24.9	23.1	25.2	24.1	24.9	27.4

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Table 10. DEATH RATES FOR SELECTED CAUSES: UNITED STATES, 1973-78—Con.

[For 1978, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 population]

Cause of death	Rate						
	1978 (est.)	1977	1976	1975	1974	1973	
Bronchitis, emphysema, and asthma	490-493	10.0	10.3	11.4	12.0	12.7	14.2
Chronic and unqualified bronchitis	490,491	1.9	2.0	2.2	2.2	2.4	2.6
Emphysema.....	492	7.3	7.6	8.3	8.8	9.4	10.6
Asthma.....	493	0.8	0.8	0.9	0.9	0.9	0.9
Peptic ulcer	531-533	2.6	2.7	3.0	3.2	3.3	3.7
Appendicitis	540-543	0.3	0.3	0.4	0.4	0.4	0.5
Hernia and intestinal obstruction	550-553,560	2.4	2.6	2.8	2.9	3.1	3.2
Cirrhosis of liver.....	571	13.7	14.3	14.7	14.8	15.8	15.9
Cholelithiasis, cholecystitis and cholangitis	574,575	1.3	1.4	1.4	1.4	1.5	1.6
Nephritis and nephrosis	580-584	3.7	3.9	4.0	3.8	3.8	4.0
Acute nephritis and nephrotic syndrome	580,581	0.9	0.8	0.8	0.7	0.7	0.7
Chronic and unqualified nephritis and renal sclerosis	582-584	2.7	3.1	3.2	3.0	3.1	3.2
Infections of kidney	590	1.4	1.7	1.9	2.1	2.6	2.9
Hyperplasia of prostate	600	0.4	0.5	0.5	0.6	0.7	0.8
Complications of pregnancy, childbirth, and the puerperium	630-678	0.1	0.2	0.2	0.2	0.2	0.2
Abortions	640-645	0.0	0.0	0.0	0.0	0.0	0.0
Other complications of pregnancy, childbirth, and the puerperium.....	630-639,650-678	0.1	0.2	0.2	0.2	0.2	0.2
Congenital anomalies.....	740-759	5.9	6.0	6.1	6.2	6.4	6.7
Certain causes of mortality in early infancy	760-769,2,769,4-772,774-778	10.1	10.8	11.6	12.5	13.6	14.5
Birth injury, difficult labor, and other anoxic and hypoxic conditions	764-768,772,776	5.3	5.8	6.3	6.9	7.6	8.1
Other causes of mortality in early infancy.....	Remainder of 760-778	4.8	5.0	5.3	5.6	6.1	6.5
Symptoms and ill-defined conditions	780-796	14.4	14.9	14.3	14.9	14.7	14.5
All other diseases	Residual	63.4	60.3	58.4	56.5	56.0	54.7
Accidents	E800-E949	49.5	47.7	46.9	48.4	49.5	55.2
Motor vehicle accidents	E810-E823	24.6	22.9	21.9	21.5	22.0	26.5
All other accidents	E800-E807,E825-E949	24.9	24.8	25.0	26.8	27.5	28.7
Suicide	E950-E959	12.6	13.3	12.5	12.7	12.1	12.0
Homicide	E960-E978	9.7	9.2	9.1	10.0	10.2	9.8
Other external causes	E980-E999	1.6	2.1	2.2	2.3	2.4	2.4

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