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# nchs MONTHLY VITAL STATISTICS REPORT

Provisional Data From the National Center for Health Statistics

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## Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1984

The provisional number of live births and the birth rate per 1,000 population for 1984 were higher than the comparable figures for 1983. The increase in the number of births brought the annual total of births to the highest level observed since 1970. The increase in the birth rate reversed the decline recorded during the previous year.

The number of marriages also increased in 1984 and reached a new national record. However, because the population increased at about the same pace, the marriage rate per 1,000 population remained at the level reported in 1983.

The number of divorces and the divorce rate per 1,000 population for 1984 were lower than the comparable figures for 1983. The divorce rate for 1984 was lower than it had been since 1975.

The provisional number of deaths increased in 1984, reflecting the continued increase in the size of the population, especially at 65 years of age and over. The age-adjusted death rate and life expectancy at birth remained at about the same levels as in 1983. However, the infant mortality rate continued to decline in 1984 to the lowest level ever recorded in the United States. Age-adjusted death rates declined in 1984 for Diseases of heart, Chronic liver disease and cirrhosis, and Atherosclerosis. Rates increased for Pneumonia and influenza and for Septicemia.

### Births

An estimated 3,697,000 babies were born in the United States during 1984, a 2-percent increase over the provisional estimate for 1983 (3,614,000). The birth rate was 15.7 live births per 1,000 population, 1 percent above the rate for 1983 (15.5). The fertility rate was 66.0 live births per 1,000 women aged 15-44 years, 1 percent higher than the estimated fertility rate for 1983 (65.4). (See tables A and B and figure 1.)

The 2-percent increase in the number of births brought the annual total to the highest level observed since 1970 (3,731,386). The 1-percent increases in the birth and fertility rates in 1984 reversed the declines measured for these rates during the previous year.

The seasonally adjusted monthly birth and fertility rates in 1984 were higher in 8 months and lower in 4 months of the year than the rates in 1983 (table C). There was no consistent pattern in the seasonally adjusted rates except that the rates were higher for each of the last 4 months of 1984 than for the same months of 1983.

Changes in the annual number of births are affected mainly by two factors: trends in age-specific birth rates and changes in the number of women in the childbearing ages. The 2-percent increase in the number of births coupled with the 1-percent rise

Table A. Vital statistics rates: United States, 1976-84

[Infant mortality rates per 1,000 live births; all other rates per 1,000 population]

Rate	1984 <sup>1</sup>	1983 <sup>1</sup>	1982	1981	1980	1979	1978	1977	1976
Birth .....	15.7	15.5	15.9	15.8	15.9	15.6	15.0	15.1	14.6
Death .....	8.7	8.6	8.5	8.6	8.8	8.5	8.7	8.6	8.8
Natural increase.....	7.0	6.9	7.4	7.2	7.1	7.1	6.3	6.5	5.8
Marriage <sup>2</sup> .....	10.5	10.5	10.6	10.6	10.6	10.4	10.3	9.9	9.9
Divorce (est.) .....	4.9	5.0	5.0	5.3	5.2	5.3	5.1	5.0	5.0
Infant mortality.....	10.6	10.9	11.5	11.9	12.6	13.1	13.8	14.1	15.2

<sup>1</sup>Provisional.

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

Table B. Live births, birth rates, and fertility rates, by month: United States, 1983 and 1984

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

Month	Number		Birth rate		Fertility rate	
	1984	1983	1984	1983	1984	1983
Total	3,697,000	3,614,000	15.7	15.5	66.0	65.4
January	314,000	307,000	15.8	15.5	66.7	65.8
February	289,000	273,000	15.5	15.3	65.5	64.6
March	291,000	312,000	14.6	15.8	61.5	66.7
April	302,000	285,000	15.6	14.9	65.9	62.9
May	296,000	299,000	14.8	15.1	62.4	63.9
June	297,000	296,000	15.4	15.4	64.8	65.3
July	336,000	328,000	16.8	16.5	70.9	69.9
August	323,000	320,000	16.1	16.1	67.9	68.1
September	329,000	312,000	17.0	16.2	71.5	68.7
October	316,000	306,000	15.8	15.4	66.5	65.0
November	292,000	287,000	15.0	14.9	63.3	63.0
December	311,000	288,000	15.5	14.5	65.3	61.1

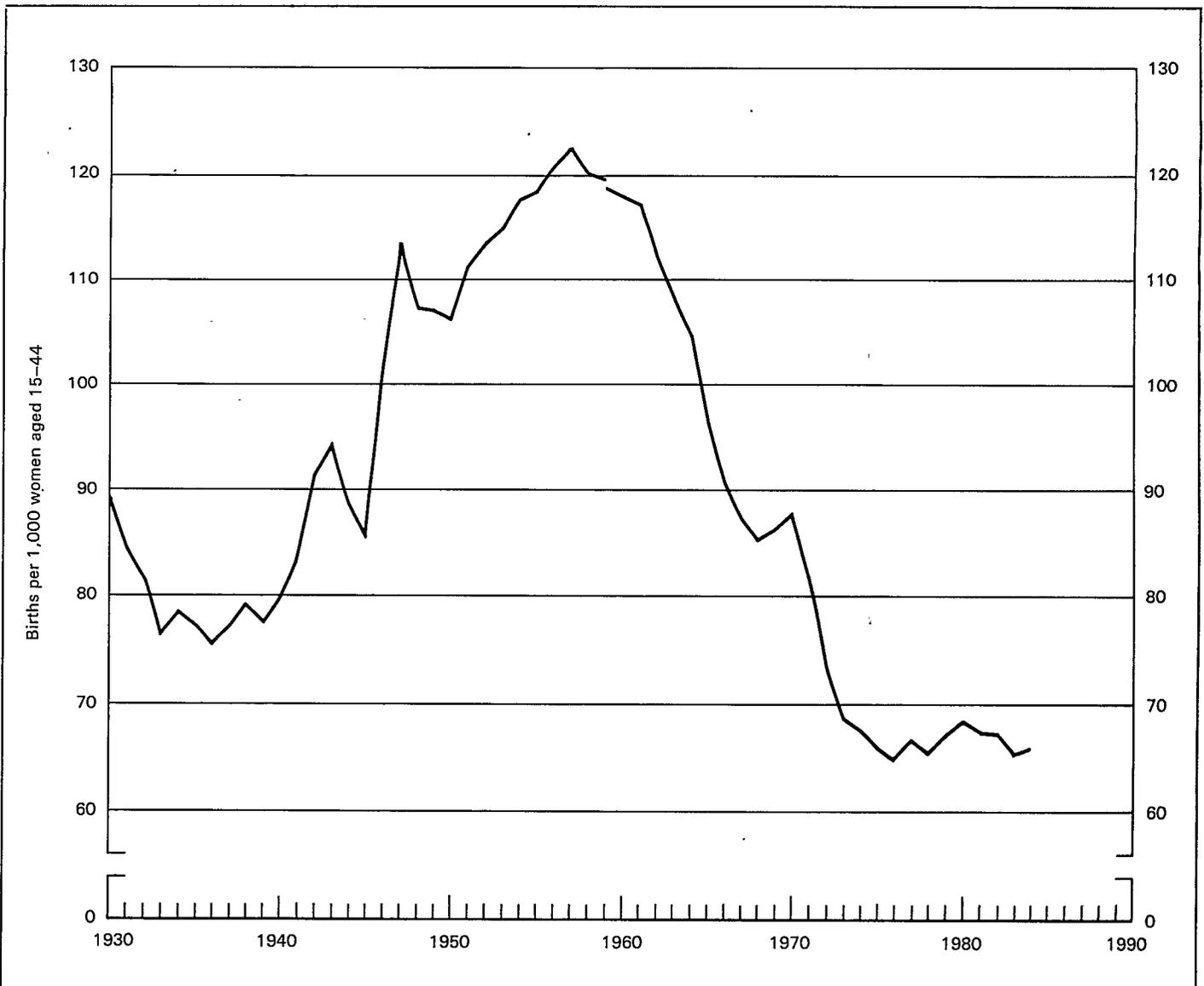


Figure 1. Fertility rates: United States, 1930-84

**Table C. Seasonally adjusted birth and fertility rates, by month: United States, 1983 and 1984**

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

Month	Birth rate		Fertility rate	
	1984	1983	1984	1983
January .....	16.3	15.9	69.0	67.6
February.....	15.7	15.4	66.4	65.3
March .....	14.9	16.0	62.7	67.9
April.....	15.9	15.7	69.2	66.3
May .....	15.4	15.6	64.8	66.2
June.....	15.5	15.6	65.6	66.3
July .....	16.0	15.7	67.6	66.5
August.....	15.1	15.2	63.8	64.2
September.....	15.9	15.3	67.0	64.5
October.....	15.6	15.2	65.8	64.1
November.....	15.3	15.2	64.5	64.3
December.....	15.7	14.7	66.1	62.2

in the fertility rate indicate that age-specific birth rates increased for at least some age-of-mother groups between 1983 and 1984. The total number of women in the childbearing ages increased as well, but only by 1 percent overall; changes in the number of women at various ages were not uniform. The number of teenagers 15-19 years of age declined in 1984 by 3 percent, while the number of women in their early twenties fell 1 percent. These are the ages at which nearly half of all births occur annually in the United States. Increases of 1 to 4 percent were measured for age groups 25-29 through 40-44 years, with the largest increases observed for women aged 35-39 and 40-44 years (4 percent). Rates of childbearing for women in the age groups 35-44 years, however, tend to be very low.

According to projections prepared by the U.S. Bureau of the Census, the number of women in the childbearing ages will increase again by about 1 percent between 1984 and 1985 and then stabilize through the late 1980's.<sup>1</sup> The number of women aged 15-24 years will continue to decline, however, as those born during the low birth years of the early to mid 1970's reach the childbearing ages. During the next several years, therefore, increases in the number of births will require increases in the birth rates for at least some age groups.

Provisional data by place of occurrence indicate that there were increases in the number of births between 1983 and 1984 of 1-2 percent in two geographic divisions (Middle Atlantic and South Atlantic) and 5-9 percent in two divisions (West South Central and Pacific). There were declines of up to 2 percent in the remaining five divisions. Birth rates per 1,000 population increased by 1-7 percent in three divisions (Middle Atlantic, West South Central, and Pacific), remained level in two divisions (East North Central and South Atlantic), and declined 1-3 percent in the remaining four divisions.

Increases and declines in the number of births by State were nearly evenly split, with increases in 26 States and the District of Columbia and declines in 24 States. The birth rate increased in 20 States and the District of Columbia and de-

clined in 25 States. There was no change in the rate for five States.

### Natural increase

During 1984 an estimated 1,650,000 persons were added to the population as a result of natural increase, the excess of births over deaths. The rate of natural increase was 7.0 persons per 1,000 population, 1 percent above the 1983 rate of 6.9. This increase was due to the rise in the birth rate.

### Marriages

The marriage rate was 10.5 per 1,000 population in 1984 for the second consecutive year (table A). This rate, recorded since 1867, has varied between a high of 16.4 in 1946 and a low of 7.9 in the depression year of 1932. Final data for 1980 through 1982 show that the marriage rate was stable at 10.6 per 1,000 population. Provisional data showed a slight decline to 10.5 in 1983 and a leveling off in 1984 (figure 2).

Although the marriage rate per 1,000 population remained the same in 1984 as in 1983, the number of marriages increased to 2,487,000, the greatest annual total in U.S. history.

Marriages followed a seasonal pattern in 1984 that has become typical in the United States, lowest in January and highest in June (tables D and E). The June marriage rate, 15.8 per 1,000 population, was more than twice as high as the January rate, 6.4.

Marriage rates vary widely among States. The States with the lowest rates in 1984 were Pennsylvania (7.8), West Virginia (7.9), and Connecticut (8.0). States with the highest rates were Nevada (117.9), South Carolina (16.9), Hawaii (14.3), Arkansas (13.4), Alaska (13.0), Georgia (13.0), and Texas (13.0). While Alaska, Georgia, and Texas all reported the same provisional rate in 1984, this rate represents a substantial rise over the 1983 rates for Georgia (12.5) and Texas (12.4) but a sharp drop from the 1983 level for Alaska (14.3).

### Divorces

The divorce rate for 1984 was 4.9 per 1,000 population, 8 percent below the record high set in 1979 and 1981 (5.3) and lower than it had been since 1975 (table A).

The number of divorces dropped in 1984 (table F). An estimated 1,155,000 couples divorced, 2 percent fewer than the number in 1983 and 58,000 (5 percent) fewer than the final total reported for 1981 when the national divorce total reached a historic high of 1,213,000.

Divorce rates vary geographically, being generally lowest in the Middle Atlantic and New England Divisions and highest in the West South Central and Mountain Divisions. For example, the rate in Massachusetts (2.9) is half as high as the rate in Colorado (5.8) and the rates in New York and Pennsylvania (3.4) are less than half as high as rates in Nevada (13.7), Oklahoma (7.3), and Wyoming (7.2).

Among States from which provisional data were available in 1984, the highest divorce rates were reported by Nevada (13.7); Alaska (7.8); Oklahoma (7.3); Wyoming (7.2); Florida

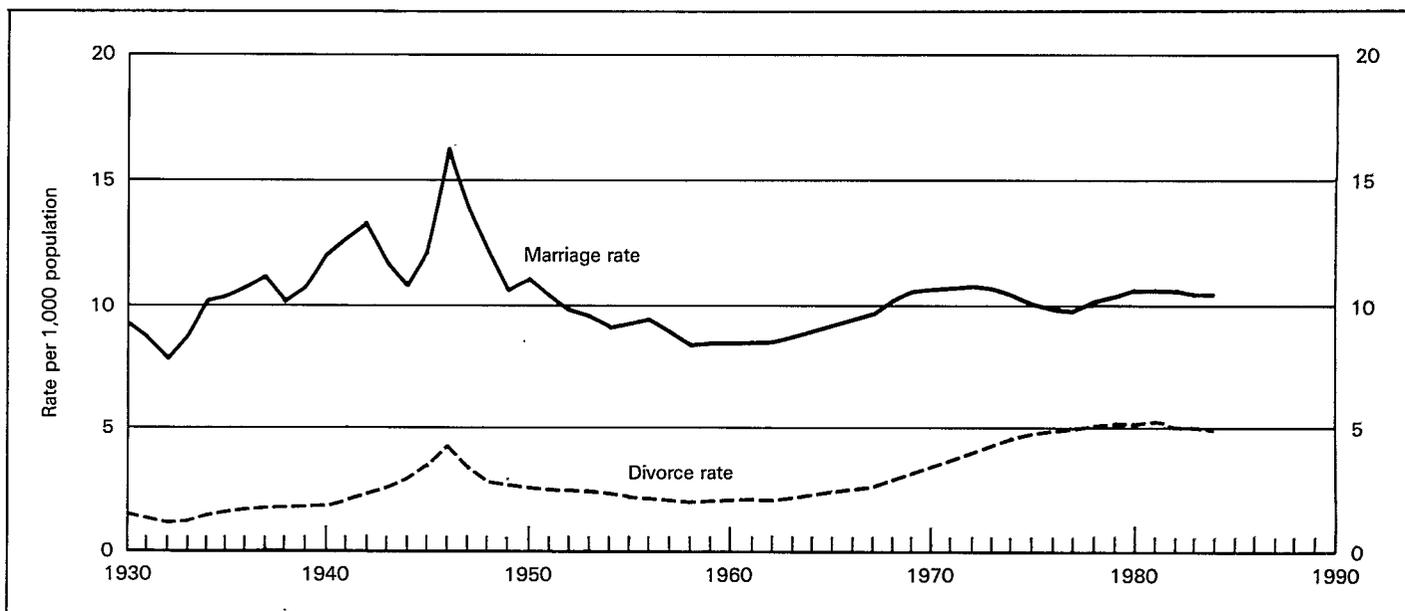


Figure 2. Marriage and divorce rates: United States, 1930-84

Table D. Marriages and marriage rates, by month: United States, 1983 and 1984

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

Month	Number		Rate	
	1984	1983	1984	1983
Total.....	2,487,000	2,444,000	10.5	10.5
January.....	128,000	132,000	6.4	6.7
February.....	164,000	143,000	8.8	8.0
March.....	153,000	162,000	7.7	8.2
April.....	173,000	185,000	9.0	9.6
May.....	230,000	231,000	11.5	11.7
June.....	305,000	289,000	15.8	15.1
July.....	229,000	228,000	11.5	11.5
August.....	265,000	272,000	13.3	13.7
September.....	249,000	236,000	12.9	12.3
October.....	201,000	195,000	10.0	9.8
November.....	194,000	188,000	10.0	9.8
December.....	196,000	183,000	9.8	9.2

(6.9); Arkansas (6.6); and Arizona, New Mexico, and Tennessee (all with a rate of 6.5).

Marriage and divorce rates tend to vary together, with both rates relatively high or both rates relatively low for any particular State. In general, the divorce rate is less than half as high as the marriage rate. In 1984, however, 17 States had exceptionally high ratios of divorces to marriages: Alabama, Alaska, Arizona, Colorado, Delaware, Florida, Kansas, Montana, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Tennessee, Washington, West Virginia, and Wyoming.

### Deaths

During 1984 an estimated 2,047,000 deaths occurred in the United States, the greatest number ever recorded. The pro-

Table E. Marriage rates, seasonally adjusted and unadjusted, by month: United States, 1983 and 1984

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

Month	Unadjusted for seasonal variation		Adjusted for seasonal variation	
	1984	1983	1984	1983
Total.....	44.4	44.2	...	...
January.....	27.2	28.2	41.4	42.5
February.....	37.1	33.9	49.3	44.4
March.....	32.4	34.7	41.2	42.6
April.....	37.8	40.9	40.2	42.1
May.....	48.5	49.4	44.2	46.1
June.....	66.6	63.8	46.3	43.5
July.....	48.3	48.5	45.6	42.7
August.....	55.9	57.8	44.1	45.8
September.....	54.2	52.0	50.6	46.3
October.....	42.3	41.4	42.1	42.3
November.....	42.0	41.3	45.6	45.9
December.....	41.2	38.7	44.1	42.6

visional death rate for 1984 was 866.8 deaths per 100,000 population, approximately 1 percent higher than the provisional rate for 1983 (858.9). The record number of deaths in 1984 reflects a general increase in the size of the population, especially at 65 years of age and over. However, as a result of the continued decline in the death rates for most age groups, the provisional age-adjusted death rate for 1984 was the lowest ever recorded in the United States (547.7 deaths per 100,000 population) (figure 3). This rate was about the same as the provisional age-adjusted death rate for 1983 (549.6). Age-adjusted death rates control for changes and variations in the age composition of the population. Therefore, they are usually

**Table F. Divorces and divorce rates, by month: United States, 1983 and 1984**

[Includes reported annulments. Rates on an annual basis per 1,000 population]

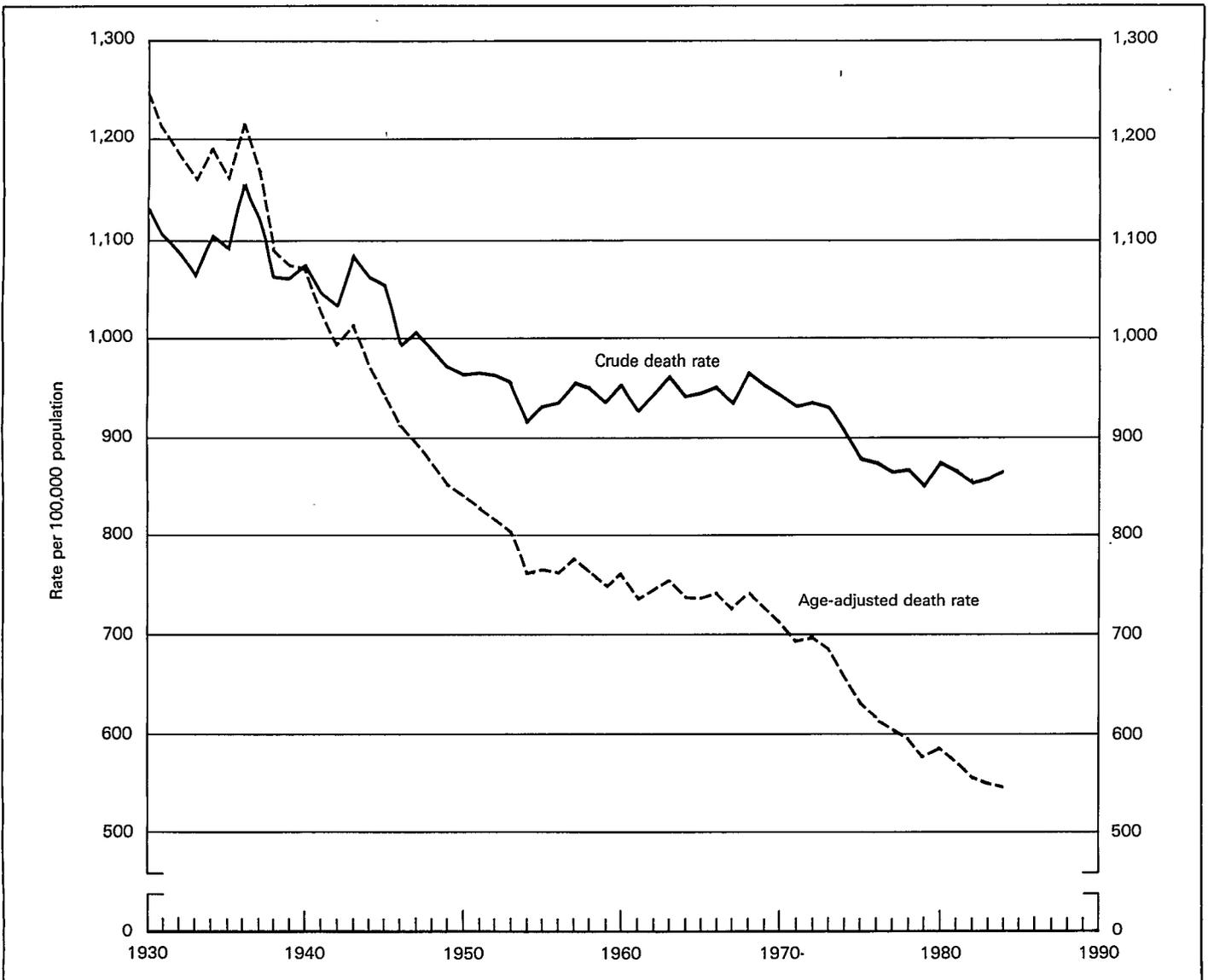
Month	Number		Rate	
	1984	1983	1984	1983
Total	1,155,000	1,179,000	4.9	5.0
January	92,000	96,000	4.6	4.9
February	88,000	87,000	4.7	4.9
March	91,000	100,000	4.6	5.0
April	90,000	97,000	4.6	5.1
May	105,000	100,000	5.3	5.1
June	103,000	106,000	5.3	5.5
July	100,000	94,000	5.0	4.8
August	97,000	103,000	4.9	5.2
September	97,000	98,000	5.0	5.1
October	100,000	100,000	5.0	5.0
November	93,000	93,000	4.8	4.8
December	99,000	104,000	4.9	5.2

better indicators than crude death rates for showing changes in mortality risk over time and between race-sex groups within the population.

Unadjusted death rates were somewhat higher for January, March, May, June, August, September, November, and December 1984 than for the same months in 1983. Rates for April and October were the same in 1984 as in 1983. For the remaining months of 1984, death rates were lower than for the previous year (table G).

**Expectation of life**

The expectation of life at birth in 1984 was the same as the record high set in 1983—an estimated 74.7 years for the total population. Record highs were established in 1984 for white females, 78.8 years; white males, 71.8 years; and black males, 65.5 years. Life expectancy for black females declined slightly, to 73.7 years.



**Figure 3. Crude and age-adjusted death rates: United States, 1930-84**

**Table G. Deaths and death rates, by month: United States, 1983 and 1984**

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

Month	Number		Rate	
	1984	1983	1984	1983
Total	2,047,000	2,010,000	8.7	8.6
January	184,000	180,000	9.3	9.1
February	171,000	171,000	9.2	9.6
March	183,000	179,000	9.2	9.0
April	174,000	172,000	9.0	9.0
May	169,000	165,000	8.5	8.3
June	165,000	158,000	8.5	8.2
July	164,000	168,000	8.2	8.4
August	162,000	160,000	8.1	8.0
September	161,000	157,000	8.3	8.1
October	166,000	165,000	8.3	8.3
November	166,000	160,000	8.5	8.3
December	183,000	175,000	9.1	8.8

Provisional data showed a continued narrowing of the difference in life expectancy at birth between males and females by race. Among the white population, from 1983 to 1984 life expectancy increased by 0.2 year for males compared with 0.1 year for females. Among the black population, life expectancy at birth increased by 0.1 year for males, but decreased 0.3 year for black females. The expectation of life at birth represents the average number of years that a group of infants would be expected to live if, throughout life, they were to experience the age-specific death rates prevailing during the year of their birth.

#### Death rates by race and sex, and by age

*Race and sex differentials*—Age-adjusted death rates reached new lows in 1984 for each race-sex group except black females. White females had the lowest estimated age-adjusted death rate (391.4 deaths per 100,000 population), followed by black females (586.2), white males (694.6), and black males (1,016.1). Between 1983 and 1984, age-adjusted death rates decreased 1 percent for white males, remained essentially the same for black males and white females, and increased 3 percent for black females (from 571.5).

*Age differentials*—Between 1983 and 1984, provisional death rates decreased for persons aged 85 years of age and over and increased for those 75–84 years. Death rates for other age groups did not change significantly between the two successive years (table H).

#### Major causes of death

The 15 leading causes of death in 1984 accounted for 88 percent of all deaths in the United States (table J). The leading causes of death for 1979 through 1984 have been the same, but the order has varied. Nephritis, nephrotic syndrome, and nephrosis (the 13th leading cause of death in 1983) moved ahead of Homicide and legal intervention and Certain conditions orig-

**Table H. Death rates by age for 1983 and 1984 and percent difference between 1983 and 1984: United States**

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

Age	1984 (est.)	1983 (est.)	Percent difference
All ages <sup>1</sup>	866.8	858.9	+0.9
Under 1 year	1,077.8	1,076.8	+0.1
1–4 years	50.1	51.7	-3.1
5–14 years	25.1	27.3	-8.1
15–24 years	98.5	95.8	+2.8
25–34 years	123.1	121.6	+1.2
35–44 years	205.5	203.3	+1.1
45–54 years	531.7	541.9	-1.9
55–64 years	1,289.6	1,298.8	-0.7
65–74 years	2,864.4	2,883.4	-0.7
75–84 years	6,416.5	6,309.7	+1.7
85 years and over	14,890.1	15,422.3	-3.5

<sup>1</sup>Figures for age not stated are included in "All ages" but not distributed among age groups.

inating in the perinatal period to become the 11th leading cause in 1984.

For most causes age-adjusted death rates are better indicators than crude death rates for showing changes in mortality risk over time. Such rates are used to depict trends for 13 of the 15 leading causes of death. For the other two leading causes of death, which occur mainly among infants under 1 year of age (Certain conditions originating in the perinatal period and Congenital anomalies), age-adjusted death rates are not shown. Changes in mortality for these two causes are measured by the infant mortality rate per 100,000 live births. The infant mortality rate for Certain conditions originating in the perinatal period for 1984, 505.3 infant deaths per 100,000 live births, was not significantly different from the 1983 rate (519.7). Similarly, the rate for Congenital anomalies, 228.1, was also not significantly different from the 1983 rate, 231.6.

Age-adjusted death rates were lower in 1984 than in 1983 for three leading causes: Diseases of heart, Chronic liver disease and cirrhosis, and Atherosclerosis. Age-adjusted death rates for Diseases of heart and Atherosclerosis have generally declined since 1950 and for Chronic liver disease and cirrhosis since the mid-1970's (figure 4).

Age-adjusted rates for two leading causes of death increased between 1983 and 1984. The age-adjusted rate for Pneumonia and influenza increased 9 percent, from 11.2 deaths per 100,000 population in 1983 to 12.2 in 1984; it also increased 12 percent for Septicemia, from 3.4 in 1983 to 3.8 in 1984. Even though the rates for the broad category Accidents and adverse effects did not change significantly between the two years, the rate for Motor vehicle accidents—a component of the broader category—increased 6 percent between 1983 and 1984, a reversal of the decline observed between 1980 and 1983.

For the remaining seven leading causes of death, provisional data did not indicate a significant change between 1983 and 1984.

**Table J. Death rates and percent of total deaths for 15 leading causes of death: United States, 1984**

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

Rank	Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Death rate	Percent of total deaths
...	All causes .....	866.7	100.0
1	Diseases of heart .....	324.4	37.4
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues .....	191.6	22.1
3	Cerebrovascular diseases .....	65.6	7.6
4	Accidents and adverse effects .....	40.1	4.6
...	Motor vehicle accidents .....	19.6	2.3
...	All other accidents and adverse effects .....	20.4	2.4
5	Chronic obstructive pulmonary diseases and allied conditions .....	29.8	3.4
6	Pneumonia and influenza .....	25.0	2.9
7	Diabetes mellitus .....	15.6	1.8
8	Suicide .....	12.3	1.4
9	Chronic liver disease and cirrhosis .....	11.3	1.3
10	Atherosclerosis .....	10.4	1.2
11	Nephritis, nephrotic syndrome, and nephrosis .....	8.5	1.0
12	Homicide and legal intervention .....	8.3	1.0
13	Certain conditions originating in the perinatal period .....	8.0	0.9
14	Septicemia .....	6.4	0.7
15	Congenital anomalies .....	5.6	0.6
...	All other causes .....	103.9	12.0

**Infant mortality**

In 1984 an estimated 39,200 infants died in the United States. The estimated infant mortality rate of 10.6 deaths per 1,000 live births was the lowest annual rate ever recorded in the United States (table K). The decline (3 percent) between

1983 and 1984 was a reflection of the continuing decrease in the neonatal mortality rate (deaths of infants under 28 days per 1,000 live births) (figure 5), while the post-neonatal mortality rate (28 days to 11 months) remained essentially unchanged. None of the causes of infant mortality changed significantly between 1983 and 1984 (table L).

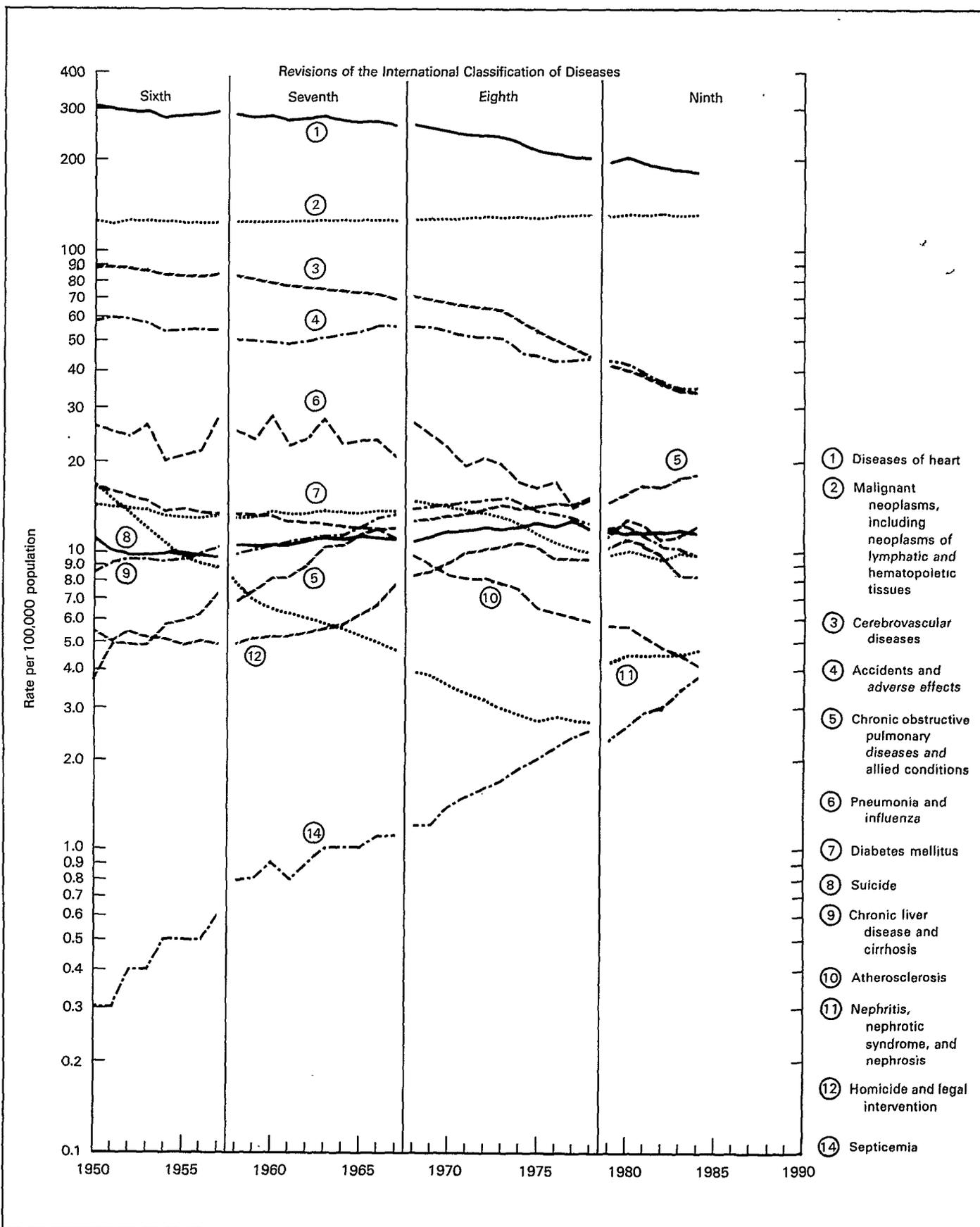
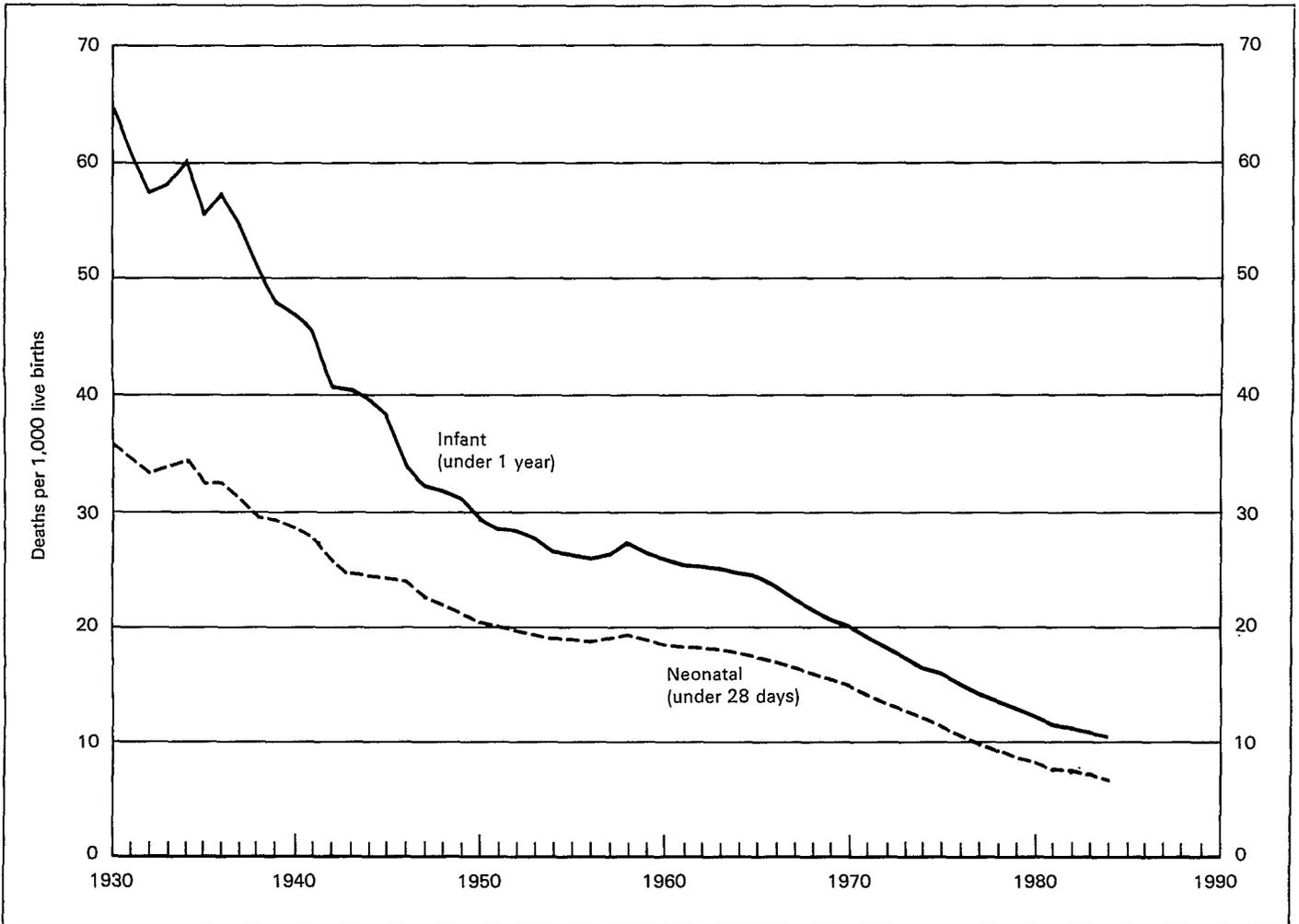


Figure 4. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-84

**Table K. Deaths under 1 year and infant mortality rates, by month: United States, 1983 and 1984**

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

Month	Number		Rate		Month	Number		Rate	
	1984	1983	1984	1983		1984	1983	1984	1983
Total .....	39,200	39,400	10.6	10.9	June .....	3,100	2,900	10.5	9.8
January .....	3,500	3,600	11.3	11.6	July .....	3,200	3,300	9.7	10.2
February .....	3,300	3,400	11.4	12.1	August .....	3,300	3,200	10.2	10.1
March .....	3,400	3,500	11.6	11.0	September .....	3,200	3,200	10.0	10.5
April .....	3,200	3,300	10.6	11.4	October .....	3,300	3,500	10.6	11.5
May .....	3,200	3,300	10.6	10.9	November .....	3,200	3,000	10.9	10.3
					December .....	3,300	3,200	10.5	10.7



**Figure 5. Infant and neonatal mortality rates: United States, 1930-84**

Table L. Infant mortality rates by age and for 10 selected causes of death: United States, 1979-84

[For 1983 and 1984, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 100,000 live births. For further discussion, see Technical notes]

<i>Age and cause of death</i> (Ninth Revision, International Classification of Diseases, 1975)	1984 (est.)	1983 (est.)	1982	1981	1980	1979
Total, under 1 year.....	1,059.6	1,090.6	1,152.0	1,193.2	1,260.3	1,306.8
Under 28 days.....	686.1	726.7	769.9	802.4	847.6	886.6
28 days to 11 months.....	373.9	364.5	382.2	390.8	412.7	420.2
Certain gastrointestinal diseases..... 008-009,535,555-558	7.6	7.2	7.6	7.7	8.2	9.7
Pneumonia and influenza..... 480-487	17.0	21.3	20.5	22.3	28.0	32.3
Congenital anomalies..... 740-759	228.1	231.6	245.2	245.6	255.2	255.4
Disorders relating to short gestation and unspecified low birth weight..... 765	93.3	92.7	98.3	100.8	101.0	100.0
Birth trauma..... 767	8.9	11.9	16.8	25.3	29.3	32.3
Intrauterine hypoxia and birth asphyxia..... 768	26.2	31.8	40.5	38.7	41.4	39.9
Respiratory distress syndrome..... 769	103.9	101.3	109.7	119.0	138.1	156.2
Other conditions originating in the perinatal period..... 760-764,766,770-779	272.7	282.0	296.8	308.9	319.8	339.0
Sudden infant death syndrome..... 798.0	131.7	130.1	143.4	145.9	152.5	151.1
All other causes..... Residual	170.2	181.0	173.3	179.0	186.7	191.0

## References

- <sup>1</sup>U.S. Bureau of the Census: Projections of the population of the United States, by age, sex, and race: 1983 to 2080. *Current Population Reports*. Series P-25, No. 952. Washington. U.S. Government Printing Office, May 1984.
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- <sup>11</sup>U.S. Bureau of the Census: *The X-11 Variant of the Census Method II Seasonal Adjustment Program*. Technical Paper No. 15 (1967 revision). Washington. U.S. Government Printing Office, Feb. 1967.
- <sup>12</sup>U.S. Bureau of the Census: Estimates of the population of the United States, by age, sex, and race: 1980 to 1984. *Current Population Reports*. Series P-25, No. 965. Washington. U.S. Government Printing Office, Mar. 1985.
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Table 1. Live births and birth rates: Each reporting area, 1983 and 1984

[By place of occurrence. Rates per 1,000 population in specified area. Number of events reported; see Technical notes]

Area	Live births			
	1984		1983	
	Number	Rate	Number	Rate
New England.....	168,430	13.4	170,078	13.6
Maine.....	16,513	14.3	16,323	14.2
New Hampshire.....	12,656	13.0	13,973	14.6
Vermont.....	7,419	14.0	7,671	14.6
Massachusetts.....	79,386	13.7	78,670	13.6
Rhode Island.....	13,219	13.7	13,061	13.7
Connecticut.....	39,237	12.4	40,380	12.9
Middle Atlantic.....	508,461	13.7	504,234	13.6
New York.....	251,062	14.2	249,618	14.1
New Jersey.....	97,488	13.0	95,406	12.8
Pennsylvania.....	159,911	13.4	159,210	13.4
East North Central.....	622,585	15.0	622,662	15.0
Ohio.....	159,939	14.9	160,330	14.9
Indiana.....	79,134	14.4	82,169	15.0
Illinois.....	175,907	15.3	175,679	15.3
Michigan.....	134,517	14.8	131,873	14.5
Wisconsin.....	73,088	15.3	72,611	15.3
West North Central.....	277,090	15.8	277,143	15.9
Minnesota.....	65,788	15.8	64,698	15.6
Iowa.....	42,611	14.6	43,783	15.1
Missouri.....	78,517	15.7	76,739	15.4
North Dakota.....	12,738	18.6	13,200	19.4
South Dakota.....	12,383	17.5	12,409	17.7
Nebraska.....	26,483	16.5	26,816	16.8
Kansas.....	38,570	15.8	39,498	16.3
South Atlantic.....	573,718	14.5	563,299	14.5
Delaware.....	9,487	15.5	9,538	15.7
Maryland.....	58,790	13.5	57,857	13.4
District of Columbia.....	19,123	30.7	18,592	29.8
Virginia.....	79,342	14.1	77,448	14.0
West Virginia.....	25,059	12.8	26,911	13.7
North Carolina.....	86,705	14.1	84,655	13.9
South Carolina.....	48,215	14.6	48,513	14.9
Georgia.....	91,761	15.7	91,090	15.9
Florida.....	155,236	14.1	148,695	13.9
East South Central.....	223,670	14.9	224,701	15.0
Kentucky.....	51,964	14.0	55,252	14.9
Tennessee.....	70,407	14.9	67,739	14.5
Alabama.....	58,604	14.7	57,685	14.6
Mississippi.....	42,695	16.4	44,025	17.0
West South Central.....	476,252	18.2	455,369	17.7
Arkansas.....	33,440	14.2	33,630	14.4
Louisiana.....	83,195	18.6	80,610	18.2
Oklahoma.....	53,425	16.2	54,085	16.4
Texas.....	306,192	19.2	287,044	18.3
Mountain.....	230,474	18.4	234,856	19.0
Montana.....	13,846	16.8	13,794	16.9
Idaho.....	17,072	17.1	18,540	18.7
Wyoming.....	9,026	17.7	9,515	18.5
Colorado.....	54,471	17.1	55,159	17.6
New Mexico.....	26,285	18.5	30,186	21.6
Arizona.....	54,821	18.0	52,659	17.8
Utah.....	39,677	24.0	40,752	25.2
Nevada.....	15,276	16.8	14,251	16.0
Pacific.....	599,121	17.5	549,194	16.3
Washington.....	73,605	16.9	63,729	14.8
Oregon.....	39,536	14.8	41,045	15.4
California.....	455,075	17.8	413,915	16.4
Alaska.....	12,247	24.5	11,500	24.0
Hawaii.....	18,658	18.0	19,005	18.6

All data are by State of occurrence rather than by State of residence and should be interpreted accordingly.

Table 2. Marriages, divorces, and rates: Each reporting area, 1983 and 1984

[By place of occurrence. Includes reported annulments. Rates per 1,000 population in specified area. Number of events reported; see Technical notes]

Area	Marriages <sup>1</sup>				Divorces			
	1984		1983		1984		1983	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
New England	115,388	9.2	107,141	8.6	44,668	3.6	44,153	3.5
Maine	12,430	10.8	12,584	11.0	5,864	5.1	5,920	5.2
New Hampshire	11,363	11.6	11,084	11.6	4,808	4.9	4,634	4.8
Vermont	5,375	10.1	5,513	10.5	2,173	4.1	2,529	4.8
Massachusetts	53,198	9.2	43,587	7.6	16,957	2.9	17,670	3.1
Rhode Island	7,942	8.3	8,040	8.4	3,640	3.8	3,532	3.7
Connecticut	25,080	8.0	26,333	8.4	11,226	3.6	9,868	3.1
Middle Atlantic	323,648	8.7	308,630	8.3	130,125	3.5	131,442	3.5
New York	168,860	9.5	156,440	8.9	61,075	3.4	64,480	3.6
New Jersey	62,192	8.3	60,752	8.1	28,469	3.8	26,593	3.6
Pennsylvania	92,596	7.8	91,438	7.7	40,581	3.4	40,369	3.4
East North Central	384,412	9.2	368,495	8.9	---	---	---	---
Ohio	98,708	9.2	99,991	9.3	53,492	5.0	53,999	5.0
Indiana	52,705	9.6	53,455	9.8	---	---	---	---
Illinois	102,504	8.9	103,519	9.0	48,914	4.2	50,514	4.4
Michigan	89,391	9.9	70,735	7.8	42,112	4.6	39,733	4.4
Wisconsin	41,104	8.6	40,795	8.6	16,552	3.5	17,123	3.6
West North Central	169,958	9.7	170,071	9.8	74,306	4.2	75,533	4.3
Minnesota	36,873	8.9	36,553	8.8	14,696	3.5	14,501	3.5
Iowa	26,960	9.3	26,747	9.2	10,406	3.6	10,653	3.7
Missouri	54,148	10.8	53,487	10.8	25,038	5.0	26,749	5.4
North Dakota	5,806	8.5	5,966	8.8	2,258	3.3	2,326	3.4
South Dakota	8,035	11.4	7,970	11.4	2,506	3.5	2,550	3.6
Nebraska	13,341	8.3	13,512	8.5	6,487	4.0	6,323	4.0
Kansas	24,795	10.2	25,836	10.7	12,915	5.3	12,431	5.1
South Atlantic	447,108	11.3	432,592	11.1	208,231	5.3	205,105	5.3
Delaware	5,463	8.9	5,555	9.2	2,908	4.7	3,060	5.0
Maryland	46,815	10.8	47,182	11.0	15,817	3.6	15,957	3.7
District of Columbia	5,488	8.8	5,436	8.7	2,874	4.6	2,731	4.4
Virginia	65,976	11.7	61,784	11.1	24,837	4.4	25,519	4.6
West Virginia	15,456	7.9	15,988	8.1	9,491	4.9	10,125	5.2
North Carolina	52,123	8.5	51,991	8.5	29,125	4.7	30,285	5.0
South Carolina	55,882	16.9	53,572	16.4	13,753	4.2	13,685	4.2
Georgia	75,817	13.0	71,552	12.5	34,084	5.8	32,448	5.7
Florida	124,088	11.3	119,532	11.2	75,342	6.9	71,295	6.7
East South Central	172,856	11.5	171,879	11.5	86,060	5.7	87,643	5.9
Kentucky	44,006	11.8	39,713	10.7	17,369	4.7	17,144	4.6
Tennessee	55,205	11.7	56,827	12.1	30,684	6.5	30,740	6.6
Alabama	47,487	11.9	48,923	12.4	25,483	6.4	25,739	6.5
Mississippi	26,158	10.1	26,416	10.2	12,524	4.8	14,020	5.4
West South Central	318,965	12.2	315,108	12.2	---	---	---	---
Arkansas	31,427	13.4	30,393	13.1	15,553	6.6	15,786	6.8
Louisiana	41,295	9.3	45,710	10.3	---	---	---	---
Oklahoma	38,612	11.7	44,043	13.4	24,002	7.3	23,752	7.2
Texas	207,631	13.0	194,962	12.4	98,074	6.1	96,988	6.2
Mountain	232,226	18.8	251,407	20.4	82,175	6.5	84,436	6.8
Montana	7,677	9.3	8,061	9.9	4,407	5.3	4,650	5.7
Idaho	12,518	12.5	13,390	13.5	6,033	6.0	6,240	6.3
Wyoming	5,723	11.2	6,200	12.1	3,700	7.2	3,983	7.7
Colorado	34,630	10.9	36,031	11.5	18,413	5.8	19,738	6.3
New Mexico	15,171	10.7	16,728	12.0	9,205	6.5	9,063	6.5
Arizona	31,506	10.3	30,322	10.2	19,796	6.5	20,891	7.1
Utah	17,579	10.6	18,346	11.3	8,134	4.9	8,467	5.2
Nevada	107,422	117.9	122,329	137.3	12,487	13.7	11,404	12.8
Pacific	315,294	9.2	315,448	9.4	---	---	181,399	5.4
Washington	44,730	10.3	46,247	10.8	27,313	6.3	27,268	6.3
Oregon	22,594	8.4	23,337	8.8	15,463	5.8	16,548	6.2
California	226,560	8.8	224,891	8.9	---	---	129,131	5.1
Alaska	6,519	13.0	6,852	14.3	3,904	7.8	3,878	8.1
Hawaii	14,891	14.3	14,121	13.8	4,756	4.6	4,574	4.5

<sup>1</sup>Data are either marriages reported or marriage licenses issued; see Technical notes.

All data are by State of occurrence rather than by State of residence and should be interpreted accordingly.

Table 3. Deaths, infant deaths, and rates: Each reporting area, 1983 and 1984

[By place of occurrence. Rates for deaths at all ages are per 1,000 population in specified area. Rates for deaths under 1 year are infant mortality rates per 1,000 live births in specified area. Number of events reported; see Technical notes]

Area	Deaths (all ages)				Infant deaths (under 1 year)			
	1984		1983		1984		1983	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
New England	119,326	9.5	112,956	9.0	1,494	8.9	1,477	8.7
Maine	10,796	9.3	11,242	9.8	119	7.2	130	8.0
New Hampshire	7,749	7.9	7,771	8.1	106	8.4	89	6.4
Vermont	4,455	8.4	4,908	9.3	68	9.2	46	6.0
Massachusetts	59,104	10.2	54,275	9.4	739	9.3	746	9.5
Rhode Island	9,589	10.0	8,487	9.9	142	10.7	155	11.9
Connecticut	27,633	8.8	25,273	8.1	320	8.2	311	7.7
Middle Atlantic	357,533	9.6	358,460	9.7	5,457	10.7	5,470	10.8
New York	168,852	9.5	170,464	9.6	2,789	11.1	2,954	11.8
New Jersey	66,477	8.8	66,404	8.9	908	9.3	923	9.7
Pennsylvania	122,204	10.3	121,592	10.2	1,760	11.0	1,593	10.0
East North Central	359,072	8.6	361,892	8.7	6,750	10.8	6,909	11.1
Ohio	96,937	9.0	98,234	9.1	1,598	10.0	1,733	10.8
Indiana	47,195	8.6	48,268	8.8	868	11.0	923	11.2
Illinois	98,151	8.5	99,964	8.7	2,073	11.8	2,119	12.1
Michigan	75,515	8.3	74,302	8.2	1,507	11.2	1,474	11.2
Wisconsin	41,274	8.7	41,124	8.7	704	9.6	660	9.1
West North Central	160,979	9.2	160,296	9.2	2,548	9.2	2,779	10.0
Minnesota	33,525	8.1	34,099	8.2	571	8.7	642	9.9
Iowa	26,093	9.0	27,169	9.4	322	7.6	358	8.2
Missouri	52,332	10.4	50,419	10.1	815	10.4	897	11.7
North Dakota	5,897	8.6	5,880	8.6	116	9.1	108	8.2
South Dakota	6,417	9.1	6,545	9.4	112	9.0	129	10.4
Nebraska	14,973	9.3	14,819	9.3	276	10.4	265	9.9
Kansas	21,742	8.9	21,365	8.8	336	8.7	380	9.6
South Atlantic	351,942	8.9	346,713	8.9	6,971	12.2	7,039	12.5
Delaware	5,098	8.3	5,071	8.4	89	9.4	102	10.7
Maryland	34,875	8.0	34,524	8.0	618	10.5	572	9.9
District of Columbia	8,302	13.3	8,349	13.4	393	20.6	366	19.7
Virginia	43,899	7.8	43,226	7.8	898	11.3	876	11.3
West Virginia	19,114	9.8	19,210	9.8	288	11.5	303	11.3
North Carolina	51,496	8.4	50,602	8.3	1,099	12.7	1,145	13.5
South Carolina	25,340	7.7	25,300	7.8	659	13.7	716	14.8
Georgia	47,303	8.1	45,988	8.0	1,221	13.3	1,153	12.7
Florida	116,515	10.6	114,443	10.7	1,706	11.0	1,806	12.1
East South Central	139,034	9.3	133,715	8.9	2,894	12.9	2,824	12.6
Kentucky	33,449	9.0	33,590	9.0	567	10.9	585	10.6
Tennessee	45,570	9.7	42,148	9.0	921	13.1	875	12.9
Alabama	37,551	9.4	34,855	8.8	812	13.9	748	13.0
Mississippi	22,464	8.6	23,122	8.9	594	13.9	616	14.0
West South Central	208,816	8.0	202,390	7.8	5,160	10.8	5,275	11.6
Arkansas	23,478	10.0	23,093	9.9	340	10.2	327	9.7
Louisiana	36,549	8.2	35,755	8.1	1,037	12.5	1,148	14.2
Oklahoma	29,258	8.9	28,414	8.6	605	11.3	580	10.7
Texas	119,531	7.5	115,128	7.3	3,178	10.4	3,220	11.2
Mountain	88,021	7.0	85,508	6.9	2,273	9.9	2,271	9.7
Montana	6,644	8.1	6,697	8.2	103	7.4	106	7.7
Idaho	6,649	6.6	6,951	7.0	135	7.9	171	9.2
Wyoming	3,000	5.9	2,990	5.8	67	7.4	60	6.3
Colorado	20,941	6.6	19,978	6.4	599	11.0	576	10.4
New Mexico	9,806	6.9	9,927	7.1	265	10.1	314	10.4
Arizona	24,384	8.0	23,183	7.8	543	9.9	521	9.9
Utah	9,295	5.6	8,834	5.5	407	10.3	395	9.7
Nevada	7,302	8.0	6,948	7.8	154	10.1	128	9.0
Pacific	261,830	7.7	248,189	7.4	5,705	9.5	5,463	9.9
Washington	35,212	8.1	31,039	7.2	690	9.4	536	8.4
Oregon	23,229	8.7	21,579	8.1	415	10.5	388	9.5
California	195,430	7.6	187,938	7.5	4,245	9.3	4,200	10.1
Alaska	1,993	4.0	1,921	4.0	147	12.0	152	13.2
Hawaii	5,966	5.7	5,712	5.6	208	11.1	187	9.8

All data are by State of occurrence rather than by State of residence and should be interpreted accordingly.

**Table 4. Deaths and death rates, by age, race, and sex: United States, 1984**

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

Age	All other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
All ages.....	2,047,000	1,085,390	961,490	1,789,210	942,670	846,540	257,670	142,720	114,950	236,570	129,850	106,720
Under 1 year .....	39,200	21,880	17,300	27,080	15,170	11,910	12,100	6,710	5,390	11,100	6,110	4,990
1-4 years .....	7,100	4,110	2,990	5,290	3,080	2,210	1,810	1,030	780	1,630	910	720
5-14 years.....	8,520	5,310	3,210	6,500	4,010	2,490	2,020	1,300	720	1,780	1,150	630
15-24 years.....	39,480	29,130	10,350	32,060	23,860	8,200	7,420	5,270	2,150	6,530	4,540	1,990
25-34 years.....	50,360	36,490	13,870	37,960	27,880	10,080	12,400	8,610	3,790	11,130	7,680	3,450
35-44 years.....	62,990	40,610	22,380	47,260	30,810	16,450	15,730	9,800	5,930	14,360	8,920	5,440
45-54 years.....	119,260	75,290	43,970	95,430	60,500	34,930	23,830	14,790	9,040	22,070	13,750	8,320
55-59 years.....	117,600	73,650	43,950	97,580	61,820	35,760	20,020	11,830	8,190	18,430	10,890	7,540
60-64 years.....	170,180	104,700	65,480	144,920	89,960	54,960	25,260	14,740	10,520	23,470	13,710	9,760
65-69 years.....	216,420	130,600	85,820	189,250	114,980	74,270	27,170	15,620	11,550	25,170	14,400	10,770
70-74 years.....	263,260	151,830	111,430	231,930	134,570	97,360	31,330	17,260	14,070	29,050	15,700	13,350
75-79 years.....	282,500	148,720	133,780	255,250	134,470	120,780	27,250	14,250	13,000	25,090	12,770	12,320
80-84 years.....	270,600	123,170	147,430	246,510	112,610	133,900	24,090	10,560	13,530	22,250	9,580	12,670
85 years and over .....	398,160	139,220	258,940	371,190	128,470	242,720	26,970	10,750	16,220	24,260	9,560	14,700
Not stated.....	1,270	680	590	1,000	480	520	270	200	70	250	180	70
	Rate											
All ages <sup>1</sup> .....	866.8	945.8	792.0	890.2	961.8	822.1	732.6	851.9	624.0	830.5	963.4	711.1
Under 1 year .....	1,077.8	1,175.7	974.6	914.2	997.4	826.5	1,792.6	1,967.7	1,609.0	2,033.0	2,221.8	1,841.3
1-4 years .....	50.1	56.7	43.2	45.9	52.1	39.4	68.1	76.6	59.5	76.3	84.2	68.3
5-14 years.....	25.1	30.6	19.4	23.6	28.4	18.6	31.8	40.4	22.9	34.2	43.7	24.5
15-24 years.....	98.5	144.0	52.2	96.6	141.9	50.1	107.9	154.2	62.2	115.4	163.2	69.1
25-34 years.....	123.1	179.5	67.4	109.7	160.5	58.4	197.0	290.5	113.8	223.0	329.2	129.7
35-44 years.....	205.5	269.6	143.6	178.4	234.2	123.4	378.0	513.9	263.2	445.4	608.9	309.3
45-54 years.....	531.7	691.4	381.0	489.7	633.4	351.6	809.4	1,107.0	562.9	933.6	1,291.1	641.0
55-59 years.....	1,027.2	1,360.9	728.0	964.8	1,285.5	674.0	1,500.7	1,961.9	1,120.4	1,677.0	2,182.4	1,256.7
60-64 years.....	1,566.0	2,068.4	1,128.0	1,492.5	1,978.4	1,064.5	2,183.2	2,862.1	1,638.6	2,442.2	3,210.8	1,827.7
65-69 years.....	2,327.1	3,133.4	1,671.9	2,270.3	3,063.7	1,620.6	2,818.5	3,763.9	2,103.8	3,077.0	4,126.1	2,291.5
70-74 years.....	3,535.6	4,820.0	2,593.8	3,457.0	4,733.4	2,518.4	4,256.8	5,622.1	3,272.1	4,677.9	6,181.1	3,637.6
75-79 years.....	5,261.7	7,146.6	4,068.7	5,256.4	7,171.7	4,051.7	5,311.9	6,917.5	4,234.5	5,781.1	7,556.2	4,666.7
80-84 years.....	8,323.6	10,919.3	6,944.4	8,272.1	10,954.3	6,856.1	8,889.3	10,455.4	7,958.8	9,716.2	11,542.2	8,678.1
85 years and over .....	14,890.1	18,033.7	13,614.1	15,218.9	18,511.5	13,909.5	11,476.6	13,782.1	10,331.2	12,009.9	14,707.7	10,729.9

<sup>1</sup>Figures for age not stated are included in "All ages" but not distributed among age groups.

Table 5. Death rates by age, race, and sex and age-adjusted death rates by race and sex: United States, 1950, 1960, 1970, and 1980-84

[For 1983 and 1984, based on a 10-percent sample of deaths; for all other years, based on final data. Data for 1970 and 1980-82 exclude deaths of nonresidents of the United States. Rates per 100,000 population in specified group. For method of computation of age-adjusted rates and for further discussion, see Technical notes]

<i>Race, sex, and year</i>	<i>All ages<sup>1</sup></i>	<i>Under 1 year</i>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15-24 years</i>	<i>25-34 years</i>	<i>35-44 years</i>	<i>45-54 years</i>	<i>55-64 years</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years and over</i>	<i>Age- adjusted rate</i>
<b>All races</b>													
1984 (est.) . . . . .	866.8	1,077.8	50.1	25.1	98.5	123.1	205.5	531.7	1,289.6	2,864.4	6,416.5	14,890.1	547.7
1983 (est.) . . . . .	858.9	1,076.8	51.7	27.3	95.8	121.6	203.3	541.9	1,298.8	2,883.4	6,309.7	15,422.3	549.6
1982 . . . . .	852.0	1,164.2	57.6	28.3	101.0	125.2	207.4	549.7	1,297.9	2,885.2	6,329.8	15,048.	553.8
1981 . . . . .	862.4	1,207.3	60.2	29.4	107.1	132.1	221.3	573.5	1,322.1	2,922.3	6,429.9	15,379.7	568.2
1980 . . . . .	878.3	1,288.3	63.9	30.6	115.4	135.5	227.9	584.0	1,346.3	2,994.9	6,692.6	15,980.3	585.8
1970 . . . . .	945.3	2,142.4	84.5	41.3	127.7	157.4	314.5	730.0	1,658.8	3,582.7	8,004.4	16,344.9	714.3
1960 . . . . .	954.7	2,696.4	109.1	46.6	106.3	146.4	299.4	756.0	1,735.1	3,822.1	8,745.2	19,857.5	760.9
1950 . . . . .	963.8	3,299.2	139.4	60.1	128.1	178.7	358.7	853.9	<sup>2</sup> 1,901.0	<sup>2</sup> 4,104.3	9,331.1	20,196.9	841.5
<b>Male</b>													
1984 (est.) . . . . .	945.8	1,175.7	56.7	30.6	144.0	179.5	269.6	691.4	1,702.8	3,859.4	8,472.7	18,033.7	721.3
1983 (est.) . . . . .	942.0	1,229.3	57.4	33.1	139.1	174.0	270.4	705.1	1,726.6	3,923.9	8,424.4	18,400.5	727.8
1982 . . . . .	938.0	1,291.5	63.3	34.1	149.2	180.6	272.6	720.4	1,736.1	3,929.2	8,391.4	17,782.0	733.1
1981 . . . . .	954.5	1,331.8	67.3	35.7	158.3	190.6	291.9	751.7	1,774.7	3,994.6	8,519.6	18,138.2	753.3
1980 . . . . .	976.9	1,428.5	72.6	36.7	172.3	196.1	299.2	767.3	1,815.1	4,105.2	8,816.7	18,801.1	777.2
1970 . . . . .	1,090.3	2,410.0	93.2	50.5	188.5	215.3	402.6	958.5	2,282.7	4,873.8	10,010.2	17,821.5	931.6
1960 . . . . .	1,104.5	3,059.3	119.5	55.7	152.1	187.9	372.8	992.2	2,309.5	4,914.4	10,178.4	21,186.3	949.3
1950 . . . . .	1,106.1	3,728.0	151.7	70.9	167.9	216.5	428.8	1,067.1	<sup>2</sup> 2,395.3	<sup>2</sup> 4,931.4	10,426.0	21,636.0	1,001.6
<b>Female</b>													
1984 (est.) . . . . .	792.0	974.6	43.2	19.4	52.2	67.4	143.6	381.0	924.1	2,092.0	5,197.0	13,614.1	409.5
1983 (est.) . . . . .	780.3	917.6	45.8	21.3	51.3	69.7	138.4	388.9	923.7	2,084.9	5,066.0	14,194.6	408.5
1982 . . . . .	770.7	1,030.8	51.6	22.3	51.6	70.4	144.4	389.9	913.9	2,084.7	5,120.7	13,895.2	411.2
1981 . . . . .	775.4	1,076.7	52.8	22.8	54.8	74.3	153.2	406.9	925.2	2,100.6	5,201.0	14,202.5	420.4
1980 . . . . .	785.3	1,141.7	54.7	24.2	57.5	75.9	159.3	412.9	934.3	2,144.7	5,440.1	14,746.9	432.6
1970 . . . . .	807.8	1,863.7	75.4	31.8	68.1	101.6	231.1	517.2	1,098.9	2,579.7	6,677.6	15,518.0	532.5
1960 . . . . .	809.2	2,321.3	98.4	37.3	61.3	106.6	229.4	526.7	1,196.4	2,871.8	7,633.1	19,008.4	590.6
1950 . . . . .	823.5	2,854.6	126.7	48.9	89.1	142.7	290.3	641.5	<sup>2</sup> 1,404.8	<sup>2</sup> 3,333.2	8,399.6	19,194.7	688.4
<b>White</b>													
1984 (est.) . . . . .	890.2	914.2	45.9	23.6	96.6	109.7	178.4	489.7	1,223.3	2,799.5	6,403.3	15,218.9	525.6
1983 (est.) . . . . .	882.7	937.7	48.3	26.3	94.7	109.2	179.0	499.5	1,228.9	2,815.7	6,324.5	15,666.5	528.5
1982 . . . . .	872.9	1,018.5	52.8	27.0	98.3	110.2	182.7	504.0	1,233.3	2,822.3	6,329.3	15,296.9	531.8
1981 . . . . .	880.3	1,062.0	54.3	28.0	104.6	116.2	192.5	524.9	1,255.7	2,855.9	6,423.4	15,628.0	544.6
1980 . . . . .	892.5	1,099.9	57.9	29.1	112.0	118.4	197.2	531.6	1,276.7	2,921.1	6,664.9	16,220.0	559.4
1970 . . . . .	946.3	1,869.7	75.1	39.1	115.8	129.9	267.0	666.2	1,577.1	3,490.1	8,043.3	16,889.7	679.6
1960 . . . . .	947.8	2,357.7	95.2	43.9	99.1	123.6	260.4	692.3	1,632.8	3,739.8	8,827.2	20,354.5	727.0
1950 . . . . .	945.7	2,992.6	124.1	56.4	111.7	148.3	307.6	765.0	1,799.6	4,023.1	9,416.5	20,678.6	800.4
<b>White, male</b>													
1984 (est.) . . . . .	961.8	997.4	52.1	28.4	141.9	160.5	234.2	633.4	1,622.3	3,783.4	8,511.2	18,511.5	694.6
1983 (est.) . . . . .	958.6	1,078.0	54.3	31.5	137.9	155.5	236.4	649.4	1,636.5	3,849.6	8,482.4	18,797.3	701.8
1982 . . . . .	951.8	1,135.5	58.2	32.5	145.6	158.7	238.6	659.9	1,654.6	3,859.8	8,444.7	18,123.1	706.0
1981 . . . . .	965.1	1,182.0	60.5	34.2	154.5	167.3	252.4	686.5	1,692.0	3,926.9	8,565.2	18,454.0	724.4
1980 . . . . .	983.3	1,230.3	66.1	35.0	167.0	171.3	257.4	698.9	1,728.5	4,035.7	8,829.8	19,097.3	745.3
1970 . . . . .	1,086.7	2,113.2	83.6	48.0	170.8	176.6	343.5	882.9	2,202.6	4,810.1	10,098.8	18,551.7	893.4
1960 . . . . .	1,098.5	2,694.1	104.9	52.7	143.7	163.2	332.6	932.2	2,225.2	4,848.4	10,299.6	21,750.0	917.7
1950 . . . . .	1,089.5	3,400.5	135.5	67.2	152.4	185.3	380.9	984.5	2,304.4	4,864.9	10,526.3	22,116.3	963.1
<b>White, female</b>													
1984 (est.) . . . . .	822.1	826.5	39.4	18.6	50.1	58.4	123.4	351.6	866.6	2,031.4	5,161.7	13,909.5	391.4
1983 (est.) . . . . .	810.4	789.6	42.0	20.9	50.1	62.4	122.3	356.2	867.0	2,018.0	5,067.7	14,390.5	391.5
1982 . . . . .	797.9	895.2	47.0	21.2	49.5	61.3	127.7	355.1	859.8	2,022.9	5,100.7	14,123.9	393.3
1981 . . . . .	799.6	935.4	47.7	21.6	53.2	64.7	133.6	370.9	869.4	2,032.8	5,176.3	14,438.2	401.4
1980 . . . . .	806.1	962.5	49.3	22.9	55.5	65.4	138.2	372.7	876.2	2,066.6	5,401.7	14,979.6	411.1
1970 . . . . .	812.6	1,614.6	66.1	29.9	61.6	84.1	193.3	462.9	1,014.9	2,470.7	6,698.7	15,980.2	501.7
1960 . . . . .	800.9	2,007.7	85.2	34.7	54.9	85.0	191.1	458.8	1,078.9	2,779.3	7,696.6	19,477.7	555.0
1950 . . . . .	803.3	2,566.8	112.2	45.1	71.5	112.8	235.8	546.4	1,293.8	3,242.8	8,481.5	19,679.5	645.0

See footnotes at end of table.

Table 5. Death rates by age, race, and sex and age-adjusted death rates by race and sex: United States, 1950, 1960, 1970, and 1980-84—Con.

[For 1983 and 1984, based on a 10-percent sample of deaths; for all other years, based on final data. Data for 1970 and 1980-82 exclude deaths of nonresidents of the United States. Rates per 100,000 population in specified group. For method of computation of age-adjusted rates and for further discussion, see Technical notes]

Race, sex, and year	All ages <sup>1</sup>	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	Age-adjusted rate
<b>All other</b>													
1984 (est.) . . . . .	732.6	1,792.6	68.1	31.8	107.9	197.0	378.0	809.4	1,817.7	3,441.2	6,548.5	11,476.6	694.5
1983 (est.) . . . . .	721.4	1,629.2	66.0	32.1	101.0	190.9	359.4	831.7	1,874.7	3,496.6	6,156.5	12,655.2	693.5
1982 . . . . .	728.9	1,745.5	78.4	34.3	114.4	210.3	367.1	868.2	1,840.0	3,458.5	6,343.4	12,159.6	704.6
1981 . . . . .	755.0	1,786.5	87.3	35.6	120.0	226.2	408.2	921.0	1,890.8	3,531.9	6,478.6	12,547.9	732.6
1980 . . . . .	791.7	2,148.5	91.4	37.4	133.6	239.1	428.9	967.7	1,954.9	3,671.0	6,984.3	13,227.1	774.2
1970 . . . . .	938.4	3,597.1	134.1	53.7	203.6	348.7	664.3	1,290.9	2,431.1	4,488.4	7,511.2	10,750.3	983.4
1960 . . . . .	1,008.5	4,626.4	190.8	64.3	158.2	318.6	633.4	1,342.9	2,774.6	4,784.9	7,631.1	13,907.6	1,046.1
1950 . . . . .	1,119.4	5,368.4	250.8	86.0	251.3	440.2	805.3	1,706.1	<sup>2</sup> 3,126.6	<sup>2</sup> 5,205.0	8,039.7	14,473.6	1,225.7
<b>All other, male</b>													
1984 (est.) . . . . .	851.9	1,967.7	76.6	40.4	154.2	290.5	513.9	1,107.0	2,376.6	4,554.0	8,081.4	13,782.1	908.5
1983 (est.) . . . . .	843.8	1,839.6	70.5	40.8	145.3	283.4	504.9	1,118.2	2,515.6	4,628.1	7,886.0	14,514.7	916.9
1982 . . . . .	854.8	1,921.1	85.7	41.2	167.8	313.0	509.5	1,176.7	2,457.7	4,571.7	7,918.1	14,386.4	928.4
1981 . . . . .	889.4	1,934.3	98.8	43.0	178.5	338.8	567.5	1,255.7	2,522.6	4,626.0	8,056.0	14,685.9	964.3
1980 . . . . .	936.5	2,350.2	103.0	44.9	201.6	357.8	594.2	1,309.1	2,606.3	4,747.2	8,688.5	15,774.9	1,015.1
1970 . . . . .	1,115.9	4,020.0	144.7	65.0	304.6	504.1	873.5	1,646.1	3,046.6	5,474.4	8,981.0	11,405.2	1,231.4
1960 . . . . .	1,152.0	5,189.4	207.3	75.2	213.8	386.4	729.2	1,551.0	3,151.5	5,664.0	8,662.6	15,238.7	1,211.0
1950 . . . . .	1,251.1	5,991.6	271.2	97.1	289.9	496.2	860.7	1,857.3	<sup>2</sup> 3,480.8	<sup>2</sup> 5,794.9	9,029.6	16,022.1	1,358.5
<b>All other, female</b>													
1984 (est.) . . . . .	624.0	1,609.0	59.5	22.9	62.2	113.8	263.2	562.9	1,363.4	2,617.0	5,561.8	10,331.2	526.2
1983 (est.) . . . . .	610.2	1,417.6	61.4	23.2	57.0	108.2	235.3	596.4	1,366.6	2,674.5	5,048.0	11,632.4	519.4
1982 . . . . .	614.5	1,560.7	71.0	27.3	61.7	119.1	245.4	615.7	1,346.8	2,637.3	5,329.5	11,130.5	529.3
1981 . . . . .	633.0	1,634.5	75.6	28.2	62.8	127.3	272.4	646.1	1,383.1	2,715.2	5,463.9	11,371.7	549.4
1980 . . . . .	660.6	1,944.1	79.5	29.8	68.0	135.7	288.3	687.8	1,423.1	2,856.2	5,863.3	11,922.3	582.6
1970 . . . . .	775.3	3,169.4	123.3	42.3	108.8	215.7	490.5	979.4	1,886.9	3,675.6	6,392.6	10,288.9	770.8
1960 . . . . .	872.6	4,067.1	174.4	53.4	106.1	260.0	547.3	1,144.9	2,409.7	3,981.4	6,708.4	12,871.2	893.3
1950 . . . . .	993.5	4,749.0	230.3	75.0	216.4	390.4	754.0	1,554.9	<sup>2</sup> 2,763.0	<sup>2</sup> 4,610.7	7,064.7	13,366.8	1,095.7
<b>Black</b>													
1984 (est.) . . . . .	830.5	2,033.0	76.3	34.2	115.4	223.0	445.4	933.6	2,034.0	3,767.9	7,140.3	12,009.9	773.7
1983 (est.) . . . . .	811.9	1,843.3	69.0	34.9	104.8	218.7	425.1	948.1	2,094.3	3,812.8	6,586.7	13,293.1	767.7
1982 . . . . .	819.2	1,963.2	84.9	36.9	118.7	240.4	429.9	987.3	2,053.9	3,769.2	6,773.3	12,792.4	778.7
1981 . . . . .	841.7	1,992.7	93.6	37.7	124.3	255.9	470.5	1,041.1	2,094.4	3,816.3	6,904.8	13,073.7	803.9
1980 . . . . .	875.4	2,356.6	97.6	39.0	138.3	269.5	489.9	1,087.6	2,146.6	3,932.9	7,382.6	13,610.8	842.5
1970 . . . . .	999.3	3,835.6	140.0	55.5	212.4	381.2	724.9	1,383.8	2,570.6	4,719.4	7,860.7	11,300.5	1,044.0
1960 . . . . .	1,038.6	4,740.9	190.9	64.5	157.9	333.0	659.0	1,391.7	2,899.1	4,880.2	7,594.9	13,828.4	1,073.3
1950 . . . . .	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Black, male</b>													
1984 (est.) . . . . .	963.4	2,221.8	84.2	43.7	163.2	329.2	608.9	1,291.1	2,656.6	4,991.7	8,869.0	14,707.7	1,016.1
1983 (est.) . . . . .	950.2	2,098.7	71.6	43.9	153.7	330.9	604.4	1,300.5	2,813.7	5,057.9	8,552.9	15,386.0	1,024.7
1982 . . . . .	960.4	2,168.9	93.4	44.4	175.4	360.3	606.7	1,352.1	2,758.1	5,040.1	8,477.2	15,117.9	1,035.0
1981 . . . . .	991.6	2,164.8	105.3	45.2	186.7	387.1	667.9	1,432.5	2,804.1	5,046.3	8,635.1	15,396.4	1,067.7
1980 . . . . .	1,034.1	2,586.7	110.5	47.4	209.1	407.3	689.8	1,479.9	2,873.0	5,131.1	9,231.6	16,098.8	1,112.8
1970 . . . . .	1,186.6	4,298.9	150.5	67.1	320.6	559.5	956.6	1,777.5	3,256.9	5,803.2	9,454.9	12,222.3	1,318.6
1960 . . . . .	1,181.7	5,306.8	208.5	75.1	212.0	402.5	762.0	1,624.8	3,316.4	5,798.7	8,605.1	14,844.8	1,246.1
1950 . . . . .	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Black, female</b>													
1984 (est.) . . . . .	711.1	1,841.3	68.3	24.5	69.1	129.7	309.3	641.0	1,525.6	2,881.7	6,095.1	10,729.9	586.2
1983 (est.) . . . . .	687.8	1,581.1	66.5	25.7	56.8	119.0	275.9	664.3	1,530.4	2,934.4	5,392.9	12,273.5	571.5
1982 . . . . .	692.4	1,760.1	76.4	29.4	63.5	134.8	282.7	693.1	1,498.3	2,863.0	5,708.5	11,660.0	581.4
1981 . . . . .	707.3	1,823.4	81.6	30.0	64.0	141.1	306.1	723.9	1,527.9	2,929.7	5,822.3	11,933.0	599.1
1980 . . . . .	733.3	2,123.7	84.4	30.5	70.5	150.0	323.9	768.2	1,561.0	3,057.4	6,212.1	12,367.2	631.1
1970 . . . . .	829.2	3,368.8	129.4	43.8	111.9	231.0	533.0	1,043.9	1,986.2	3,860.9	6,691.5	10,706.6	814.4
1960 . . . . .	905.0	4,162.2	173.3	53.8	107.5	273.2	568.5	1,177.0	2,510.9	4,064.2	6,730.0	13,052.6	916.9
1950 . . . . .	---	---	---	---	---	---	---	---	---	---	---	---	---

<sup>1</sup>Figures for age not stated are included in "All ages" but not distributed among age groups.

<sup>2</sup>Based on enumerated population adjusted for age bias in the "All other" population at ages 55-69 years.

Table 6. Provisional abridged life table for the total population: United States, 1984

[Based on a 10-percent sample of deaths; see Technical notes. For explanation of the columns of the life table, see Section 6 of *Vital Statistics of the United States*, 1980, 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 (2)	Number living at beginning of age interval (3)	Number dying during age interval (4)	In the age interval (5)	In this and all subsequent age intervals (6)	Average number of years of life remaining at beginning of age interval (7)	
Period of life between 2 exact ages stated in years (1)	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$	
$x$ to $x+n$							
0-1 .....	0.0108	100,000	1,076	99,080	7,472,966	74.7	
1-5 .....	0.0020	98,924	195	395,239	7,373,886	74.5	
5-10 .....	0.0011	98,729	112	493,340	6,978,647	70.7	
10-15 .....	0.0014	98,617	134	492,825	6,485,307	65.8	
15-20 .....	0.0040	98,483	390	491,530	5,992,482	60.8	
20-25 .....	0.0058	98,093	564	489,083	5,500,952	56.1	
25-30 .....	0.0059	97,529	573	486,211	5,011,869	51.4	
30-35 .....	0.0064	96,956	624	483,257	4,525,658	46.7	
35-40 .....	0.0085	96,332	815	479,738	4,042,401	42.0	
40-45 .....	0.0125	95,517	1,193	474,815	3,562,663	37.3	
45-50 .....	0.0201	94,324	1,897	467,225	3,087,848	32.7	
50-55 .....	0.0325	92,427	3,006	455,092	2,620,623	28.4	
55-60 .....	0.0502	89,421	4,491	436,523	2,165,531	24.2	
60-65 .....	0.0757	84,930	6,430	409,446	1,729,008	20.4	
65-70 .....	0.1105	78,500	8,673	371,754	1,319,562	16.8	
70-75 .....	0.1636	69,827	11,422	321,573	947,808	13.6	
75-80 .....	0.2343	58,405	13,682	258,654	626,235	10.7	
80-85 .....	0.3465	44,723	15,495	185,087	367,581	8.2	
85 and over.....	1.0000	29,228	29,228	182,494	182,494	6.2	

Table 7. Average length of life in years by race and sex: United States, 1950, 1960, 1970, 1975-84

[For 1983 and 1984, based on a 10-percent sample of deaths; for all other years, based on final data. Figures for 1980-83 have been revised; see Technical notes]

Year										All other		
	All races			White			Total			Black		
	Both sexes	Male	Female									
1984 (est.)	74.7	71.1	78.3	75.3	71.8	78.8	71.3	67.3	75.2	69.7	65.5	73.7
1983 (est.)	74.7	71.0	78.2	75.2	71.6	78.7	71.3	67.1	75.3	69.7	65.4	74.0
1982	74.5	70.9	78.1	75.1	71.5	78.7	71.0	66.8	75.0	69.4	65.1	73.7
1981	74.2	70.4	77.8	74.8	71.1	78.4	70.3	66.1	74.4	68.9	64.5	73.2
1980	73.7	70.0	77.4	74.4	70.7	78.1	69.5	65.3	73.6	68.1	63.8	72.5
1979	73.9	70.0	77.8	74.6	70.8	78.4	69.8	65.4	74.1	68.5	64.0	72.9
1978	73.5	69.6	77.3	74.1	70.4	78.0	69.3	65.0	73.5	68.1	63.7	72.4
1977	73.3	69.5	77.2	74.0	70.2	77.9	68.9	64.7	73.2	67.7	63.4	72.0
1976	72.9	69.1	76.8	73.6	69.9	77.5	68.4	64.2	72.7	67.2	62.9	71.6
1975	72.6	68.8	76.6	73.4	69.5	77.3	68.0	63.7	72.4	66.8	62.4	71.3
1970	70.8	67.1	74.7	71.7	68.0	75.6	65.3	61.3	69.4	64.1	60.0	68.3
1960	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3	---	---	---
1950	68.2	65.6	71.1	69.1	66.5	72.2	60.8	59.1	62.9	---	---	---

**Table 8. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1983 and 1984**

[Based on a 10-percent sample of deaths. Rates per 100,000 population in specified group. For further discussion, see Technical notes]

Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Year	Age											Age-adjusted rate <sup>2</sup>
		All ages <sup>1</sup>	Under 1 year	1-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
All causes . . . . .	1984	866.7	1,077.8	32.5	98.5	123.1	205.5	531.7	1,289.6	2,864.4	6,416.5	14,890.1	547.7
	1983	858.9	1,076.8	34.6	95.8	121.6	203.3	541.9	1,298.8	2,883.4	6,309.7	15,422.3	549.6
Diseases of heart . . . . . 390-398,402,404-429	1984	324.4	20.1	1.3	2.5	8.0	37.1	160.5	444.7	1,110.6	2,752.3	7,125.7	183.3
	1983	327.6	20.5	1.4	2.4	7.5	40.2	166.1	467.1	1,144.1	2,737.1	7,502.6	188.5
Rheumatic fever and rheumatic heart disease . . . . . 390-398	1984	2.9	-	0.0	0.2	0.5	0.9	2.5	6.6	11.0	21.7	19.8	2.0
	1983	2.9	-	-	0.1	0.2	1.0	2.7	6.7	12.0	19.5	23.6	2.0
Hypertensive heart disease . . . . . 402	1984	8.7	-	-	0.0	0.2	1.7	5.7	13.9	32.6	70.1	152.2	5.3
	1983	9.1	-	-	0.0	0.2	1.9	6.0	15.6	33.3	72.7	164.6	5.6
Hypertensive heart and renal disease . . . 404	1984	1.3	-	-	-	0.0	0.1	0.4	1.0	4.1	12.4	35.9	0.7
	1983	1.2	-	-	-	-	0.1	0.4	1.1	3.7	12.1	36.8	0.6
Ischemic heart disease . . . . . 410-414	1984	228.8	0.5	-	0.2	2.6	22.6	113.3	319.0	798.0	1,978.1	4,915.1	129.1
	1983	233.8	0.3	0.1	0.3	2.6	24.5	117.5	338.6	842.4	1,975.8	5,234.5	134.4
Acute myocardial infarction . . . . . 410	1984	118.5	0.5	-	0.1	1.7	14.4	73.1	202.4	473.6	1,012.4	1,736.4	72.4
	1983	121.1	0.3	0.0	0.2	1.7	15.2	74.1	216.5	500.1	1,004.9	1,832.6	75.2
Other acute and subacute forms of ischemic heart disease . . . . . 411	1984	1.6	-	-	-	0.0	0.2	1.3	3.2	6.4	11.5	21.3	1.0
	1983	1.8	-	-	0.0	0.0	0.5	1.7	4.5	7.4	10.2	24.4	1.2
Angina pectoris . . . . . 413	1984	0.4	-	-	-	0.0	-	0.4	0.6	2.0	2.8	7.9	0.3
	1983	0.4	-	-	-	0.0	0.1	0.0	0.6	1.2	3.4	6.0	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . . 412,414	1984	108.3	-	-	0.1	0.8	8.0	38.5	112.8	315.8	951.4	3,149.6	55.3
	1983	110.6	-	0.0	0.1	0.8	8.6	41.7	116.9	333.7	957.3	3,371.6	57.7
Other diseases of endocardium . . . . . 424	1984	3.8	-	0.1	0.1	0.4	0.7	1.2	3.8	13.0	39.7	69.9	2.2
	1983	3.5	-	0.1	0.1	0.2	0.7	1.0	4.1	12.0	33.5	70.3	2.0
All other forms of heart disease . . . . . 415-423,425-429	1984	78.8	19.5	1.2	1.9	4.3	11.1	37.3	100.4	251.9	630.3	1,932.3	44.1
	1983	77.0	20.2	1.3	1.9	4.2	11.9	38.6	100.9	240.6	623.5	1,972.8	43.9
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	1984	191.6	2.5	3.4	5.5	12.6	44.5	172.4	450.8	830.0	1,272.7	1,559.1	133.1
	1983	188.3	2.2	4.2	5.4	13.2	45.7	174.3	439.4	831.7	1,227.6	1,610.5	132.3
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	1984	3.6	-	0.0	0.1	0.1	0.9	4.5	10.1	16.8	17.6	19.4	2.7
	1983	3.4	-	0.0	0.1	0.2	0.8	4.3	9.9	15.2	15.1	22.8	2.5
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	1984	48.8	-	0.1	0.4	1.5	7.2	33.6	102.1	208.9	376.9	539.3	31.6
	1983	48.3	0.3	0.1	0.3	1.5	7.6	36.0	98.8	214.3	363.1	554.9	31.8
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	1984	52.5	0.5	0.1	0.1	0.7	7.5	54.8	156.1	265.0	287.0	184.7	38.5
	1983	51.6	-	-	0.1	0.7	9.2	54.4	151.4	260.8	283.0	202.2	38.1
Malignant neoplasm of breast . . . . . 174-175	1984	17.0	-	-	0.0	1.7	9.7	24.7	43.8	60.4	87.1	129.8	12.8
	1983	16.5	-	-	0.0	1.8	8.4	22.5	44.4	61.9	84.1	125.4	12.5
Malignant neoplasms of genital organs . . . . . 179-187	1984	20.6	-	0.1	0.4	1.4	3.5	12.4	34.7	85.3	175.9	258.4	12.9
	1983	20.5	-	0.1	0.3	1.5	4.3	12.4	33.5	88.1	173.2	256.5	13.0

Malignant neoplasms of urinary organs . . . . . 188-189	1984	7.9	-	0.1	0.0	0.2	0.9	5.8	15.1	33.9	60.4	95.7	5.0
	1983	7.8	-	0.1	0.1	0.3	1.1	5.7	16.2	33.3	57.2	102.7	5.1
Malignant neoplasms of all other and unspecified sites. . . . . 170-173,190-199	1984	23.4	0.8	1.5	2.0	3.9	8.8	23.1	53.4	9.23	140.3	180.3	17.0
	1983	23.3	1.1	1.7	2.0	3.6	8.4	24.9	53.0	91.9	137.1	196.2	17.1
Leukemia . . . . . 204-208	1984	7.5	1.1	1.3	1.6	1.3	2.6	5.4	13.4	24.7	54.9	78.9	5.3
	1983	7.2	0.8	1.9	1.1	1.8	2.8	5.8	12.1	25.3	44.6	81.9	5.2
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	1984	10.3	-	0.1	0.9	1.8	3.4	8.1	22.1	42.6	72.7	72.6	7.2
	1983	9.8	-	0.3	1.3	1.8	3.1	8.2	20.1	40.9	70.0	67.5	7.0
Cerebrovascular diseases . . . . . 430-438	1984	65.6	3.3	0.2	0.7	2.3	7.7	24.8	58.2	181.7	628.0	1,796.6	33.9
	1983	66.8	3.3	0.1	0.7	1.9	6.3	21.4	58.8	184.3	652.4	1,985.6	34.3
Accidents and adverse effects . . . . . E800-E949	1984	40.1	23.6	14.3	50.5	38.4	32.1	33.3	37.3	50.8	109.7	270.4	35.6
	1983	39.0	24.3	14.6	48.7	38.7	31.3	33.1	35.5	48.8	101.3	267.7	34.9
Motor vehicle accidents . . . . . E810-E825	1984	19.6	4.1	6.7	36.5	23.0	18.1	16.3	15.9	18.5	29.5	20.6	19.2
	1983	18.7	4.9	6.6	35.0	22.5	15.9	14.7	13.9	17.9	26.1	29.2	18.1
All other accidents and adverse effects . . . . . E800-E807,E826-E949	1984	20.4	19.5	7.6	14.0	15.4	13.9	16.9	21.4	32.4	80.3	250.2	16.4
	1983	20.3	19.7	8.0	13.7	16.2	15.3	18.4	21.6	30.8	75.3	238.5	16.8
Chronic obstructive pulmonary diseases and allied conditions . . . . . 490-496	1984	29.8	1.1	0.2	0.4	0.6	2.0	9.5	46.6	147.3	265.9	336.9	18.0
	1983	28.4	1.1	0.3	0.6	0.5	1.6	10.5	44.8	142.3	259.3	302.8	17.6
Pneumonia and influenza . . . . . 480-487	1984	25.0	17.3	0.7	0.7	1.8	2.9	7.0	17.2	53.0	220.8	853.0	12.2
	1983	22.9	21.0	0.8	0.6	1.3	2.5	5.5	16.2	47.7	197.0	857.0	11.2
Diabetes mellitus . . . . . 250	1984	15.6	-	0.0	0.3	1.4	4.1	9.7	26.8	61.3	124.2	212.8	9.9
	1983	15.2	-	0.1	0.2	1.5	4.0	9.1	24.8	64.6	124.8	195.0	9.8
Suicide . . . . . E950-E959	1984	12.3	...	0.6	12.2	16.1	14.3	16.9	16.3	18.5	21.9	17.2	11.6
	1983	12.4	...	0.4	11.7	16.2	15.1	16.9	17.2	17.3	25.0	22.0	11.7
Chronic liver disease and cirrhosis . . . . . 571	1984	11.3	0.3	0.0	0.1	2.5	10.3	22.6	35.5	38.0	33.6	9.3	9.8
	1983	11.9	0.5	0.0	0.0	3.4	10.4	25.0	36.1	38.9	33.9	18.4	10.4
Atherosclerosis . . . . . 440	1984	10.4	-	-	-	-	-	0.5	3.9	17.5	87.2	490.7	4.1
	1983	11.1	-	-	0.0	0.0	0.0	1.0	4.5	18.3	96.7	537.4	4.5
Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589	1984	8.5	6.3	0.0	0.1	0.6	1.7	2.9	9.9	25.4	76.5	196.3	4.7
	1983	7.9	6.3	0.1	0.3	0.6	1.0	3.1	10.0	24.5	71.5	179.0	4.5
Homicide and legal intervention . . . . . E960-E978	1984	8.3	9.6	1.2	11.8	14.4	11.3	8.5	5.3	4.4	5.6	5.2	8.2
	1983	8.2	4.1	1.3	11.3	15.3	11.7	8.0	5.6	4.4	4.3	5.6	8.2
Certain conditions originating in the perinatal period . . . . . 760-779	1984	8.0	513.6	0.4	0.0	0.0	-	-	-	-	-	0.4	( <sup>3</sup> )
	1983	8.1	513.1	0.3	0.0	0.0	-	0.0	0.0	-	0.1	-	( <sup>3</sup> )
Septicemia . . . . . 038	1984	6.4	9.1	0.2	0.1	0.5	1.4	3.5	8.2	19.9	52.0	129.8	3.8
	1983	5.7	10.1	0.3	0.2	0.2	1.0	2.9	7.4	17.1	48.5	124.3	3.4
Congenital anomalies . . . . . 740-759	1984	5.6	231.8	2.9	1.3	1.3	1.4	1.5	2.3	3.3	3.2	3.4	( <sup>3</sup> )
	1983	5.5	228.7	2.7	1.4	1.2	1.3	1.7	1.8	2.1	4.6	5.2	( <sup>3</sup> )

<sup>1</sup>Figures for age not stated are included in "All ages" but not distributed among age groups.

<sup>2</sup>For method of computation, see Technical notes.

<sup>3</sup>Because deaths from these causes occur primarily among infants, age-adjusted rates are not shown, see table L.

**Table 9. Deaths and death rates for 72 selected causes: United States, 1983 and 1984**

[Based on a 10-percent sample of deaths. Rates per 100,000 population. For further discussion, see Technical notes]

Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Number		Rate	
	1984	1983	1984	1983
All causes.....	2,047,000	2,010,000	866.7	858.9
Shigellosis and amebiasis..... 004,006	40	30	0.0	0.0
Certain other intestinal infections..... 007-009	320	370	0.1	0.2
Tuberculosis..... 010-018	1,800	1,910	0.8	0.8
Tuberculosis of respiratory system..... 010-012	1,330	1,510	0.6	0.6
Other tuberculosis..... 013-018	470	400	0.2	0.2
Whooping cough..... 033	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas..... 034-035	40	10	0.0	0.0
Meningococcal infection..... 036	300	260	0.1	0.1
Septicemia..... 038	15,030	13,350	6.4	5.7
Acute poliomyelitis..... 045	-	-	-	-
Measles..... 055	-	-	-	-
Viral hepatitis..... 070	800	840	0.3	0.4
Syphilis..... 090-097	60	100	0.0	0.0
All other infectious and parasitic diseases..... 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	6,250	4,890	2.6	2.1
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	452,470	440,620	191.6	188.3
Malignant neoplasms of lip, oral cavity, and pharynx..... 140-149	8,500	7,890	3.6	3.4
Malignant neoplasms of digestive organs and peritoneum..... 150-159	115,240	112,910	48.8	48.3
Malignant neoplasms of respiratory and intrathoracic organs..... 160-165	123,880	120,660	52.5	51.6
Malignant neoplasm of breast..... 174-175	40,100	38,540	17.0	16.5
Malignant neoplasms of genital organs..... 179-187	48,710	47,880	20.6	20.5
Malignant neoplasms of urinary organs..... 188-189	18,590	18,310	7.9	7.8
Malignant neoplasms of all other and unspecified sites..... 170-173,190-199	55,320	54,550	23.4	23.3
Leukemia..... 204-208	17,800	16,920	7.5	7.2
Other malignant neoplasms of lymphatic and hematopoietic tissues..... 200-203	24,330	22,950	10.3	9.8
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature..... 210-239	6,810	6,450	2.9	2.8
Diabetes mellitus..... 250	36,830	35,530	15.6	15.2
Nutritional deficiencies..... 260-269	2,630	2,420	1.1	1.0
Anemias..... 280-285	3,240	3,640	1.4	1.6
Meningitis..... 320-322	1,100	1,320	0.5	0.6
Major cardiovascular diseases..... 390-448	975,190	978,290	412.9	418.1
Diseases of heart..... 390-398,402,404-429	766,130	766,420	324.4	327.6
Rheumatic fever and rheumatic heart disease..... 390-398	6,880	6,730	2.9	2.9
Hypertensive heart disease..... 402	20,580	21,240	8.7	9.1
Hypertensive heart and renal disease..... 404	3,070	2,920	1.3	1.2
Ischemic heart disease..... 410-414	540,380	547,140	228.8	233.8
Acute myocardial infarction..... 410	279,810	283,250	118.5	121.1
Other acute and subacute forms of ischemic heart disease..... 411	3,730	4,270	1.6	1.8
Angina pectoris..... 413	1,030	840	0.4	0.4
Old myocardial infarction and other forms of chronic ischemic heart disease..... 412,414	255,810	258,780	108.3	110.6
Other diseases of endocardium..... 424	9,020	8,100	3.8	3.5
All other forms of heart disease..... 415-423,425-429	186,200	180,280	78.8	77.0
Hypertension with or without renal disease..... 401,403	6,920	7,720	2.9	3.3
Cerebrovascular diseases..... 430-438	155,010	156,380	65.6	66.8
Intracerebral and other intracranial hemorrhage..... 431-432	19,880	19,380	8.4	8.3
Cerebral thrombosis and unspecified occlusion of cerebral arteries..... 434.0,434.9	24,790	26,180	10.5	11.2
Cerebral embolism..... 434.1	890	670	0.4	0.3
All other and late effects of cerebrovascular diseases..... 430,433,435-438	109,450	110,160	46.3	47.1
Atherosclerosis..... 440	24,550	25,940	10.4	11.1
Other diseases of arteries, arterioles, and capillaries..... 441-448	22,580	21,840	9.6	9.3
Acute bronchitis and bronchiolitis..... 466	520	530	0.2	0.2
Pneumonia and influenza..... 480-487	59,020	53,590	25.0	22.9
Pneumonia..... 480-486	57,710	52,220	24.4	22.3
Influenza..... 487	1,310	1,370	0.6	0.6
Chronic obstructive pulmonary diseases and allied conditions..... 490-496	70,270	66,340	29.8	28.4
Bronchitis, chronic and unspecified..... 490-491	3,370	3,480	1.4	1.5
Emphysema..... 492	13,430	13,250	5.7	5.7
Asthma..... 493	3,790	3,440	1.6	1.5
Other chronic obstructive pulmonary diseases and allied conditions..... 494-496	49,680	46,170	21.0	19.7
Ulcer of stomach and duodenum..... 531-533	6,780	6,340	2.9	2.7
Appendicitis..... 540-543	570	580	0.2	0.2
Hernia of abdominal cavity and intestinal obstruction without mention of hernia..... 550-553,560	5,550	5,150	2.4	2.2
Chronic liver disease and cirrhosis..... 571	26,750	27,840	11.3	11.9

**Table 9. Deaths and death rates for 72 selected causes: United States, 1983 and 1984—Con.**

Based on a 10-percent sample of deaths. Rates per 100,000 population. For further discussion, see Technical notes]

Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Number		Rate		
	1984	1983	1984	1983	
Cholelithiasis and other diseases of gallbladder . . . . .	574-575	3,260	3,170	1.4	1.4
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580-589	20,050	18,440	8.5	7.9
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	320	360	0.1	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582-583,587	1,750	1,840	0.7	0.8
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586,588-589	17,980	16,240	7.6	6.9
Infections of kidney . . . . .	590	1,820	1,890	0.8	0.8
Hyperplasia of prostate . . . . .	600	530	540	0.2	0.2
Complications of pregnancy, childbirth, and the puerperium . . . . .	630-676	220	290	0.1	0.1
Pregnancy with abortive outcome . . . . .	630-638	30	60	0.0	0.0
Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	190	230	0.1	0.1
Congenital anomalies . . . . .	740-759	13,120	12,780	5.6	5.5
Certain conditions originating in the perinatal period . . . . .	760-779	18,930	18,970	8.0	8.1
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	5,230	5,300	2.2	2.3
Other conditions originating in the perinatal period . . . . .	760-766,770-779	13,700	13,670	5.8	5.8
Symptoms, signs, and ill-defined conditions . . . . .	780-799	31,920	29,780	13.5	12.7
All other diseases . . . . .	Residual	138,240	130,440	58.5	55.7
Accidents and adverse effects . . . . .	E800-E949	94,610	91,290	40.1	39.0
Motor vehicle accidents . . . . .	E810-E825	46,380	43,700	19.6	18.7
All other accidents and adverse effects . . . . .	E800-E807,E826-E949	48,230	47,580	20.4	20.3
Suicide . . . . .	E950-E959	29,060	29,080	12.3	12.4
Homicide and legal intervention . . . . .	E960-E978	19,530	19,300	8.3	8.2
All other external causes . . . . .	E980-E999	3,170	3,340	1.3	1.4

## Technical notes

### Nature and sources of data

All data for 1983 and 1984 in this report are provisional. Data for the United States as a whole refer to events occurring within the United States; other data refer to events within the reporting areas shown.

Beginning with 1970, final birth and mortality statistics exclude data for births and deaths to nonresidents of the United States. Data for nonresidents are included in provisional data for 1983 and 1984.

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 the month or year when the events occurred. Delay in the receipt of certificates in a registration office may result in a low count for a given month, followed by a high count for the month(s) in which the delayed records are received. While this occasionally may result in large fluctuations in State counts for a given event, the effect on provisional monthly totals for the United States is usually small. Final figures are counts of events occurring in the specified year. All mortality figures exclude fetal deaths.

### Natality

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

### Marriages

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

Beginning with 1978, nonlicensed (confidential) marriages registered in California are included in marriage totals and rates. Further discussion of nonlicensed marriages is given in the final marriage statistics report for 1978.<sup>2</sup>

### Divorces

Provisional divorce data, including reported annulments, are shown for the areas reporting divorce data monthly. Divorce figures for the United States for 1983 and 1984 are estimated from a summary of monthly reports from 48 States and the District of Columbia. These areas contained over 95 percent of the population of the United States as enumerated in 1980.

## Mortality

### Current mortality sample

Deaths and death rates for 1983 and 1984 by cause, age, race, and sex were estimated from the Current Mortality Sample. The Current Mortality Sample is a 10-percent systematic sample of death certificates received each month in the vital statistics offices in the 50 States, the District of Columbia, and the independent registration area of New York City. The sample for each of these areas consists of one-tenth of the death certificates received in the office between a given date and the same date of the following month. All death certificates received during the 1-month period are sampled regardless of the month or year in which the death occurred. As a result, the monthly sample is not strictly comparable to a sample on a month-of-occurrence basis. The proportions of death certificates received in the samples for each month of 1984 representing deaths occurring in the current month and those occurring in other months are shown in table I.

Because of the way in which death certificates are processed in California, this State contributes a high proportion of the certificates for deaths not occurring in the sample month. For the sample exclusive of California, the percent of the sample deaths occurring in the current month constitutes about 78 percent of the total as opposed to 71 percent of the entire sample. As for the year of occurrence, 96.81 percent of the 203,693 transcripts in the 1984 sample were for deaths occurring in 1984 and 3.2 percent for deaths occurring in 1983.

*Correction for bias and adjustment to provisional counts—*The Current Mortality Sample is selected at a specified time each month. Complete information concerning the underlying cause of death is sometimes not available in the State offices when the sample is drawn but is available later when copies of the final death certificates are processed. As a result, estimates

Table I. Percent of death certificates received in the sample each month by month of occurrence: United States, 1984

Month	Deaths occurring in—		
	Same month	Previous month	All other months
January . . . . .	74.1	18.9	7.0
February . . . . .	71.3	20.4	8.3
March . . . . .	69.1	19.6	11.3
April . . . . .	73.0	20.2	6.8
May . . . . .	71.6	19.5	9.0
June . . . . .	68.9	22.6	8.5
July . . . . .	71.6	21.4	7.0
August . . . . .	70.6	20.2	9.2
September . . . . .	69.0	22.6	8.4
October . . . . .	74.4	19.9	5.7
November . . . . .	72.7	19.4	7.9
December . . . . .	71.1	21.4	7.5

NOTE: A list of references follows the text.

based on sample counts for certain causes are recurrently biased estimates of final counts.

The sample data in this report are corrected using rules and methodology described in the Annual summary for 1978.<sup>3</sup> The data for 1984 are adjusted for bias based on the experience of 3 years—1980, 1981, and 1982. 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 using an adjusted weight. For all causes without an adjusted weight, a weight of 10 is used. The adjusted weights that were applied to the 1984 sample for all ages and for ages under 1 year are shown in table II.

The 1983 cause-of-death data in this report were adjusted for bias using data for 1979, 1980, and 1981. Therefore, the adjusted weights for 1984 data are not the same as those used for 1983.<sup>4</sup>

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

Two methods are used for estimating percent errors—one for the ratio estimates for the causes of death corrected for bias and the other for estimates for the remaining causes of death or

for given age-race-sex groups. The percent error of a ratio estimate for a given cause of death corrected for bias for all ages is computed as follows:

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

- where  $V$  = percent error of the estimate  $X$
- $X$  = the estimated number of deaths (or estimated death rate) in a given cause or age-race-sex group
- $x$  = the number of deaths in the sample from the given cause
- $D$  = 203,693, the total number of death certificates in the sample for 1984
- $Y$  = the final number of deaths from the given cause in the 3 years—1980, 1981, and 1982 combined
- $M$  = 5,952,403, the final count of all deaths occurring in the 3 years—1980, 1981, and 1982 combined

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

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

- where  $V$  = the percent error of the estimate  $X$
- $X$  = the estimated number of deaths from a given cause or for an age-race-sex group
- $N$  = 2,047,000, the provisional number of registered deaths in 1984

NOTE: A list of references follows the text.

Table II. Causes of death corrected for bias and adjusted weights for all ages and for under 1 year: United States, 1984

<i>Cause of death</i> <sup>1</sup> (Ninth Revision, International Classification of Diseases, 1975) and age	<i>Adjusted weight</i>
All ages	
Other tuberculosis . . . . .	013-018 13.23
All other infectious and parasitic diseases . . . . .	001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139 10.72
Malignant neoplasms of all other and unspecified sites . . . . .	170-173,190-199 9.62
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .	210-239 9.13
Diabetes mellitus . . . . .	250 10.22
Hypertensive heart and renal disease . . . . .	404 10.93
Angina pectoris . . . . .	413 14.82
Other diseases of endocardium . . . . .	424 10.44
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448 10.33
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586,588-589 9.71
Symptoms, signs, and ill-defined conditions . . . . .	780-799 7.73
All other diseases . . . . .	Residual 10.16
Motor vehicle accidents . . . . .	E810-E825 10.22
Suicide . . . . .	E950-E959 10.40
All other external causes . . . . .	E980-E999 11.69
Under 1 year	
Symptoms, signs, and ill-defined conditions . . . . .	780-799 9.53

<sup>1</sup> Causes of death eligible to have an adjusted weight were those that had 50 or more deaths based on final data for 1982.

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

#### Cause-of-death classification

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

Causes of death for 1979–84 were classified according to the Ninth Revision.<sup>5</sup> For earlier years causes of death were classified according to the revision then in use. Changes in classification of causes of death due to these revisions may result in discontinuities in cause-of-death trends. Consequently, cause-of-death comparisons between revisions require consideration of the comparability ratios and, where available, estimates of their standard errors. For information about comparability ratios between the Eighth and Ninth Revisions, see *Monthly Vital Statistics Report*, Volume 28, No. 11 Supplement.<sup>6</sup>

For information about comparability ratios between the Seventh and Eighth Revisions, see *Vital and Health Statistics*, Series 2, No. 66.<sup>7</sup> 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*, Volume 51, No. 4.<sup>8</sup>

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*.<sup>9</sup>

NOTE: A list of references follows the text.

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

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

#### Cause-of-death ranking

Cause-of-death ranking is based on the List of 72 Selected Causes of Death, adapted from one of the special lists for mortality tabulations recommended by the World Health Organization for use with the Ninth Revision of the *International Classification of Diseases*. Two group titles—Major cardiovascular diseases and Symptoms, signs, and ill-defined conditions—are not ranked. In addition, category titles that begin with the words “other” and “all other” are not ranked. The remaining category titles are ranked according to the number of deaths for 1984 to determine the leading causes of death. When one of the titles that represents a subtotal is ranked (for example, Tuberculosis), its component parts (in this case, Tuberculosis of respiratory system and Other tuberculosis) are not ranked.

#### Age-adjusted rates

The age-adjusted rates presented in this report were computed by the direct method, that is, by applying the age-specific death rates for a given cause of death to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. The age-adjusted rates were based on 10-year age groups. Rates by specified cause for 1983 and 1984 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 with crude rates.

#### Life tables

U.S. abridged life tables are constructed by reference to a standard life table.<sup>10</sup> Life table values for 1980–83 appearing in this publication have been revised using life tables for the decennial period 1979–81 as the standard life tables; therefore, these figures may differ from those previously published.

#### Seasonal adjustment

The method of seasonal adjustment used for birth, fertility, and marriage rates is described in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*.<sup>11</sup> Marriage rates were also adjusted for monthly variation in the specified days of the week (Sundays, Mondays, and so forth) because marriages are more likely on some days than on others.

#### Population bases for computing rates

The populations used for computing rates shown in this report (furnished by the U.S. Bureau of the Census) represent the population residing in the specified area. Populations for 1940, 1950, 1960, 1970, and 1980 were enumerated as of April 1; all other populations were estimated as of July 1.

The populations for 1984 were published by the U.S. Bureau of the Census in the *Current Population Reports*, Series P-25.<sup>12,13</sup>

Infant and maternal mortality rates are based on live births. For an explanation of the method used in computing infant mortality rates adjusted for changing numbers of births, see *Vital Statistics—Special Reports*, Volume 19, No. 21.<sup>14</sup>

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**Symbols**

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