

# VITAL STATISTICS REPORT

Provisional Statistics

# ANNUAL SUMMARY FOR THE UNITED STATES, 1977

BIRTHS, DEATHS, MARRIAGES, AND DIVORCES

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service
Office of the Assistant Secretary for Health
National Center for Health Statistics
Hyattsville, Maryland 20782



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# **ANNUAL SUMMARY, 1977**

#### VITAL STATISTICS OF THE UNITED STATES

Itom	Rate per 1,000 population								
Item	1977 <sup>1</sup>	1976	1975	1974	1973	1972	1971		
Births	15.3	14.8	14.8	14,9	14.9	15.6	17.2		
Deaths	8.8	8.9	8.9	9.2	9.4	9.4	9.3		
Natural increase	6.5	5.9	5.9	5.7	5,5	6,2	7.9		
Marriages	10.1	10.0	10.1	10.5	10,9	11.0	10.6		
Divorces (est.)	5.0	5.0	4.9	4.6	4.4	4.1	3.7		

<sup>&</sup>lt;sup>1</sup>Provisional.

The provisional vital statistics reported here monthly have been summarized for the entire year. These preliminary totals show more births, marriages, and divorces and fewer deaths and infant deaths in 1977 than in 1976.

### **BIRTHS**

In 1977 the number of births in the United States rose to an estimated 3,313,000. This was about 5 percent more than the final number recorded for 1976. The birth rate rose about 3

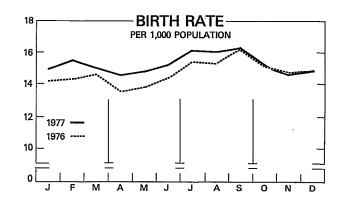


Table A. LIVE BIRTHS, BIRTH RATES, AND FERTILITY RATES, BY MONTH: UNITED STATES, 1976 AND 1977

[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]

	]	Number		ļ	Birth ra	te	Fertility rate		
Month	1977	1976	1976 (final)	1977	1976	1976 (final)	1977	1976	1976 (final)
Total	3,313,000	3,165,000	3,167,788	15.3	14.7	14,8	67.4	65.6	65.8
January	274,000 256,000 276,000 259,000 273,000 272,000 297,000 296,000 290,000 282,000	257,000 242,000 266,000 239,000 252,000 253,000 281,000 278,000 286,000 278,000	257,181 242,868 258,146 243,611 251,603 256,556 277,250 281,987 282,457 278,295	15.0 15.5 15.1 14.6 14.9 15.3 16.2 16.1 16.3 15.3	14.2 14.3 14.6 13.6 13.9 14.4 15.5 16.2 15.2	14.2 14.3 14.2 13.9 13.9 14.6 15.2 15.5 16.0 15.3	66.3 68.4 66.5 64.4 65.6 67.5 71.2 70.8 71.6 67.3	63.5 64.0 65.5 60.9 62.0 64.0 68.9 68.0 72.2 67.7	63.6 64.1 63.7 62.0 61.8 65.0 67.9 71.3
November	262,000 275,000	260,000 272,000	263,506 274,328	14.7 14.9	14.8 14.9	14.9 15.0	64.5 65.4	65.5 66.1	66.3 66.3

percent from the final rate of 14.8 in 1976 to 15.3 births per 1,000 population in 1977. The fertility rate of 67.4 births per 1,000 women 15.44 years of age was up 2 percent from the final rate for 1976, marking the first annual increase in this rate since the increases in 1969 and 1970. Data by month show that most of the increase over the previous year occurred during the first 8 months of 1977 (table A).

The number of births and the birth rate rose because of the growth of the number of women in childbearing ages (assumed to be 15-44 years) as well as the increase in the rate of childbearing. Although the number of women in the childbearing ages has been increasing, in the recent past, declines in the rate of childbearing have prevented substantial increases in the number of births.

The number of women in childbearing ages increased 2 percent between 1976 and 1977. According to projections prepared by the U.S. Bureau of the Census, this number will increase another 6 percent by 1980.

Although the greatest increases are projected for ages 30-39 years (12 percent), increases at the ages of highest fertility (20-29 years) will amount to 6 percent. As a result of these increases in the number of young women, the number of births could continue to rise unless age-specific birth rates fall below their present levels.

Provisional data by place of occurrence show that the number of births and the birth rate rose in all geographic divisions and in all States except Vermont.

### NATURAL INCREASE

During 1977, 1,415,000 persons were added to the population as a result of natural increase (the excess of births over deaths). The rate of natural increase was 6.5 persons per 1,000 population for 1977 compared with the final rate of 5.9 for 1976. This increase was due primarily to the increase in the birth rate.

# **DEATHS**

During 1977 an estimated 1,898,000 deaths occurred in the United States. The provisional total death rate for 1977 (8.8 deaths per 1,000 population) was the lowest annual rate ever recorded in this country. The final rate for 1976 was 8.9 (table C).

The absence of an influenza epidemic during 1977 may in part be responsible for the record-low total death rate. As indicated by monthly death rates, the provisional rates for February and March of 1977 were lower than the rates for the same months of 1976, during which there was an influenza epidemic (table C).

Table B. SEASONALLY ADJUSTED BIRTH AND FERTILITY RATES, BY MONTH: UNITED STATES, 1976 AND 1977

[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]

		Birth rate		Fertility rate			
Month	1977	1976	1976 (final)	1977	1976	1976 (final)	
January	15.4	14.5	14.6	68.3	65.1	65,5	
February	15.7	14.4	14.6	69.7	64.6	65.2	
March	15.4	15.0	14.6	68.2	67.1	65.2	
April	15.3	14.3	14.5	67.2	64.1	64,8	
May	15.5	14.5	14.5	68.3	64.6	64.4	
June	15.6	14.8	14.9	69.0	65.9	66.3	
July	15.5	15.0	14.6	68.2	66.6	65,2	
August	15.2	14.4	14.7	66.9	63.9	65.3	
September	15.2	15.2	14.9	66.6	67.8	66,3	
October	15.0	14.9	15.0	66.0	66.3	66.8	
November	15.0	14.9	15.1	65.7	66.3	67,2	
December	15.0	14,9	15.1	65.8	66.0	67.0	

Table C. DEATHS AND DEATH RATES,	BY MONTH: UNITED	STATES, 1976 AND 1977

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

		Number		Rate			
Month	1977	1976	1976 (final)	1977	1976	1976 (final)	
Total	1,898,000	1,912,000	1,909,440	8.8	8.9	8.8	
January	173,000	169,000	169,042	9.5	9.3	9.3	
February	161,000 166,000	171,000 187,000	173,348 179,968	9.7 9.0	10.1 10.3	10 <b>.</b> 2 . • 9.9	
April	157,000	160,000	157,791	8.8	9.1	9.0	
May	156,000	156,000	154,777	8.5	8.6	8.5	
June	150,000	148,000	148,111	8.5	8.4	8.4	
July	159,000	153,000	151,290	8.6	8.4	8.3	
August	149,000   147,000	146,000 145,000	148,270 144,363	8.1 8.3	8.0 8.2	8.1 8.2	
October	159,000	158,000	157,120	8.6	8.7	8.6	
November	153,000	154,000	156,885	8.6	8.7	8.9	
December	168,000	166,000	168,475	9.1	9.1	9.2	

# **Expectation of Life**

The record low death rate is also reflected in the life expectancy. The estimated expectation of life at birth in 1977 was 73.2 years for the total population, the highest life expectancy ever attained in the United States. Expectation of life at birth is the average number of years that an infant would be expected to live if the age-specific death rates observed during the year of the infant's birth were to continue unchanged throughout its life.

Based on the respective annual age-specific death rates, the expectations of life at birth for 1968-77 were as follows:

1977 (est.) 7	73.2	1972	71.1
1976 7			
1975 7	2.5	1970	70.9
1974 7	71.9	1969	70.4
1973 7	71.3	1968	70.2

Record high life expectancies at birth were, also, observed for white females (77.7 years), all other females (73.8 years), white males (69.9 years), and all other males (65.0 years).

## Death Rates by Age, Color, and Sex

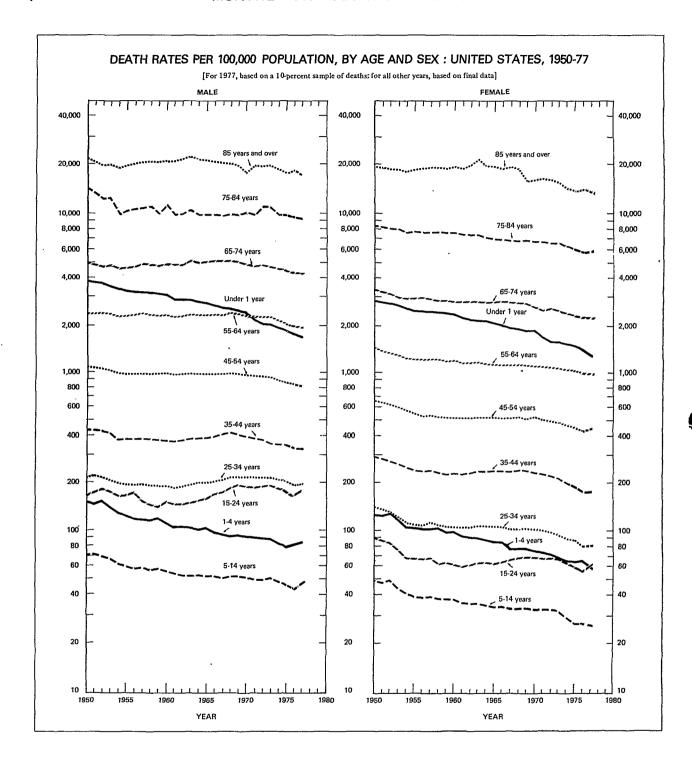
The 1.4-percent decline in the total death rate between 1977 and 1976 reflects decreases in the rate at ages under 1 year and for every 10-year age group in the span 35 years and over (table D). In addition, the provisional death

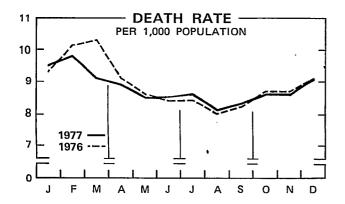
Table D. DEATH RATES BY AGE: UNITED STATES, 1976 AND 1977

[For 1977, based on a 10-percent sample of deaths. Rates per 100,000 population in specified group]

Age	1977 (est.)	1977 (final)	Percent difference	
All ages <sup>1</sup>	877,4	877,4 889.6		
Under 1 year	1,470.0 71.3 36.5 119.3 138.9 246.6 614.9 1,432.5 3,056.8 7,178.9 14,643.6	1,595.0 69.9 34.7 113,5 136,2 254.1 634.8 1,475.6 3,127.6 7,331.6 15,486.9	-7.8 2.0 5.3 5.1 2.0 -3.0 -2.0 -2.0 -5.4	

 $<sup>^{1}\</sup>mathrm{Figures}$  for age not stated included in "All ages" but not distributed among age groups.





rates for 1977 for these age groups were the lowest ever recorded in the United States. For age groups in the span 1-34 years, however, the rates increased between the final rate for 1976 and the provisional rate for 1977. Death rates for the four color-sex groups follow a similar pattern.

Sex differentials for mortality by age.—The 1977 death rate for the male population (10.0 per 1,000 population) was 1.3 times the corresponding rate for the female population (7.7). This was the same as the ratio for 1976. For both years the death rate was higher for males than for females in each age group. The ratio of male to female mortality varied by age, attaining a peak at ages 15-24 of 3.0 in 1977.

Color differentials in mortality by age.—The 1977 death rate for persons other than white (7.9 per 1,000 population) was lower than the rate for white persons (8.9). However, the reverse was true for each age group under 85 years. This phenomenon reflects in part differences in the age composition of the two groups. The population of persons other than white is younger than the white population. For 1977 the population of races other than white had a median age of 24.3 years. Only 7.5 percent of its population was 65 years and over. By comparison the white population had a median age of 30.3 years and 11.4 percent of its population was 65 years and over.

# Major Causes of Death

The 15 leading causes of death are ranked for 1977 in table E. Deaths assigned to these

causes accounted for 87.4 percent of the total number of deaths in 1977. The list of the leading causes for 1977 included one change from the list based on final data for 1976. Septicemia became the 15th leading cause, replacing Peptic ulcer.

Age-adjusted death rates control for changes and variations in the age composition of the population. Such rates, therefore, permit comparisons over time, and among causes of death free from differences due to the age structure of the population. Age-adjusted death rates are shown for 13 of the 15 leading causes (table F). 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 these 13 leading causes for 1977 than they were

. Table E. DEATH RATES FROM 15 LEADING CAUSES OF DEATH: UNITED STATES, 1977

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

	deathij		
Rank	Cause of death	Death rate	Per- cent of total deaths
•••	All causes	877.4	100.0
1 2	Diseases of heart Malignant neoplasms, including neoplasms of lymphatic and	331,6	37.8
	hematopoietic tissues	179.1	20.4
3	Cerebrovascular diseases	84.5	9.6
4	Accidents	48.5	5.5
5	Influenza and pneumonia	23.1	2.6
6	Diabetes mellitus	15.5	1.8
7	Cirrhosis of liver	14.5	1.7
8	Arteriosclerosis	13.4	1.5
9	Suicide	13.1	1.5
10 11	Certain causes of mortaility in early infancy	10.8	1.2
- ' '	asthma	10.3	1.2
12	Homicide	9.7	1.1
13	Congenital anomalies	5.8	0.7
14	Nephritis and nephrosis	3.8	0.4
	Septicemia	3.4	0.4
•••	All other causes	110.3	12.6

Table F. AGE-ADJUSTED DEATH RATES FOR 15 LEADING CAUSES OF DEATH: UNITED STATES, 1968, 1976, AND 1977

[Rates per 100,000 population]

Rank	Cause of death	1977 (est.)	1976	1968
	All causes	611.9	627.5	743.8
1 2	Diseases of heart	209.8	216.7	268.5
	lymphatic and hematopoietic tissues	132.9	132,3	129,2
3	Cerebrovascular diseases	48.4	51.4	71.3
4	Accidents	44.7	43.2	55.0
	Motor vehicle accidents	22.8	21.5	28.4
	All other accidents	21.9	21.7	26.7
5	Influenza and pneumonia	13.8	17.4	26.9
6	Diabetes mellitus	10.6	11,1	14.6
7	Cirrhosis of liver	13.3	13.6	13.9
8	Arteriosclerosis	6.1	6.4	9.6
9	Suicide	12.8	12.3	10.9
10	Certain causes of mortality in early infancy	(1)	( <sup>1</sup> )	
11	Bronchitis, emphysema, and asthma	7.1	<b>7.</b> 9	( <sup>1</sup> ) 12.8
12	Homicide	10,1	9.5	8.3
13 أ	Congenital anomalies	(1)	(1)	(1)
14	Nephritis and nephrosis	<b>2.</b> 6	2.8	è.ś
15	Septicemia	2.5	2.3	1.2
	All other causes	•••		

<sup>1</sup>Since deaths from these causes occur among infants, rates adjusted to the total population of the United States in 1940 are not shown. See table J.

for 1976. The largest decrease occurred for Influenza and pneumonia (down 20.7 percent). The other causes for which age-adjusted rates were lower in 1977 than they were in 1976 were Diseases of heart; Cerebrovascular diseases; Diabetes mellitus; Cirrhosis of liver; Arteriosclerosis; 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 1977 than they were for 1976. These causes were Malignant neoplasms, Accidents (including both Motor vehicle accidents and All other accidents), Suicide, Homicide, and Septicemia.

Diseases of heart.—There were an estimated 717,320 deaths from Diseases of heart (the leading cause of death in the United States) in 1977, which accounted for 37.8 percent of all deaths. The provisional age-adjusted death rate for 1977 (209.8 deaths per 100,000 population) was 3.2

percent lower than the final rate for 1976 (216.7). Age-specific death rates declined for every age group except for persons aged 25-34 years (table G).

During 1968-77 the age-adjusted rate for Diseases of heart declined 21.9 percent with decreases occurring between each year.

Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.—In 1977 there were an estimated 387,430 deaths (20.4 percent of all deaths) from Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, the second leading cause of death. The provisional age-adjusted rate for 1977 (132.9 deaths per 100,000 population) was 0.5 percent higher than the final rate for 1976 (132.3).

By age, between 1976 and 1977 death rates for this cause were unchanged for infants. The rates decreased for persons in the age span 1-54 years and increased for those in the span 55 years and over (table G). A similar pattern prevailed during 1968-77.

Cerebrovascular diseases.—An estimated 182,840 persons died from Cerebrovascular

Table G. AGE-SPECIFIC AND AGE-ADJUSTED DEATH RATES FOR SPECIFIED CAUSES: UNITED STATES, 1976 AND 1977

[For 1977, based on a 10-percent sample of deaths; and for 1976 based on final data. Rates per 100,000 population in specified group]

Cause of death and year	AII 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 <sup>1</sup>
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-209):												
1977	179.1	3.2	4.7	6.4	13.1	51.1	179.5	443.6	794.5	1,270.8		132.9
1976	175.8	3.2	5.1	6.5	14,5	51.5	182,0	438.4	786,3	1,248.6	1,441.5	132.3
Malignant neoplasms of digestive organs and peritoneum (150-159):							27.0	404.0		400.0	501.0	22.0
1977	47.4 47.4	0.3	0.1 0.1	0.3 0.3	1.6 1.7	8.7 8.8	37.8 36.9	104.0 105.0	214.4 221.0	403.6 407.6	521.9 518.9	33.2 33.6
Malignant neoplasms of respiratory system (160-163):	47.4	0.5	0.1	0.5	''	0.0	50.5	105.0	221.0	407.0	310.5	00.0
1977	43.4	-	0.0	0.1	0.6	11.6	51.1	139.8	216.9	226.0	163.1	33.8
1976	42.5	0.0	0.0	0.1	0.9	10.7	53,4	135.6	212.5	226.2	152.5	33.5
Malignant neoplasm of breast (174):		1		١				ــــ				
1977	16.0 15.6	1 -	0.0	0.1	1.7 1.6	8.7 8.9	27.1 26.5	45.5 43.6	57.2 56.6	81.0 82.0	119.8 112.6	12.9 12.6
Malignant neoplasms of genital organs (180-187):	15.6	-	0.0	0.0	1.6	0.9	26.5	43.0	50.0	02.0	112.0	12.0
1977	21.0	-	0.1	0.9	1.8	5.0	14.5	40.3	91.1	194.7	244.8	14.6
1976	20.7	-	0.1	0.7	2.0	5.7	16.4	39.9	90.1	189.3	237.0	14.7
Diabetes mellitus (250):	l l			١								
1977	15.5 16.1	1 00	0.1	0.4	1.5	3.0	9.9 9.8	27.4 28.4	69.5 70.0	145.8 155.8	199.1 219.2	10.6
1976 Major cardiovascular diseases (390-448):	10.1	0.3	0.1	0.4	1.8	3.9	9.8	20.4	/0.0	155.6	219.2	''''
1977	443.8	25.3	1.4	3.7	13.1	59.8	226.5	636.4	1,596.7	4.478.6	10,442,5	273.4
1976	454.0	28.5	1.8	4.2	12.8	64.8	239.4	666.2	1,656.3	4,583.4	10,982.3	284.4
Diseases of heart (390-398,402,404,410-429):	[			l					l			l
1977	331,6	21.2	0.8	2.3	9.0	47.5	190.2	532.2	1,255.6	3,201.9	7,034.6	209.8
1976 Cerebrovascular diseases (430-438):	337.2	23.1	1.1	2.6	8.5	50.8	199.8	552.4	1,286.9	3,263.7	7,384.3	216.7
1977	84.5	3.2	0.5	1.1	3.2	9.7	28.9	78.5	260.6	987.1	2,428.1	48.4
1976	87.9	4.4	0.6	1.2	3.4	11.5	31.4	85.8	280.1	1,014.0	2,586.8	51.4
Cerebral hemorrhage (431):												
1977	10.7	1.6 2.0	0.2	0.4	1.2	2.9 3.6	9.0 9.8	17.1 19.8	40.3 44.2	97.6 104.8	178.5 191.1	7.3 8.0
1976 Cerebral thrombosis (433):	11.6	j 2.0	0.1	0.4	1.1	3.0	9.0	19.0	44.2	104.6	191.1	0.0
1977	19.4		0.0	0.0	0.2	0.8	3.3	13.8	55.5	250.0	623.4	10.4
1976	20.9	0.2	0.0	0.1	0.1	0.7	3.5	15.0	64.7	262.3	700,0	11.4
Arteriosclerosis (440):												
1977	13.4 13.7	0.0	0.0	0.0	0.0 -0.0	0.2 0.2	1.1 0.9	4.4 5.2	24.1 25.8	143.6 152.5	696.5 714.3	6.1 6.4
1976Influenza and pneumonia (470-474,480-486):	13.7	] 0.0	0.0	0.0	10.0	0.2	0.5	5.2	25.0	152.5	714.3	0.4
1977	23.1	50.6	1.4	1.4	1.8	4.3	8.7	20.5	60.4	233.9	695.0	13.8
1976	28.8	64.8	1.7	1.5	2.4	5.4	11.6	26.3	70,1	289.3	959.2	17.4
Bronchitis, emphysema, and asthma (490-493):								50.0		91.6	90.9	7.1
1977 1976	10.3 11.4	2.5	0.2 0.2	0.2 0.2	0.3 0.5	1.5 1.3	5.3 6.0	20,6 23,0	54.4 60.7	101,4	108.5	7.1
Cirrhosis of liver (571):	''	2.0	0.2	0.2	0.5	1.0	0.0	20,0	""	''''	100.0	,
1977	14.5	0.6	0.1	0.3	4.1	15,6	33.6	46.8	42.4	30.7	14.9	13.3
1976	14.7	1.1	0.1	0.3	3.7	16.9	35.0	47.6	42.6	29.3	18.0	13.6
Accidents (E800-E949):		}			.:							
1976	48.5 46.9	36.1 41.4	22.5 19.7	64.7 59.9	45.9· 43.5	36.6 37.1	41.1 39.9	46.3 47.7	60.8 62.2	131.2 134.5	277.5 306.7	44.7 43.2
Motor vehicle accidents (E810-E823):	40.9	41.4	19.7	59.9	43.5	37.1	35,5	47.7	02.2	134.5	300.7	43.2
1977	23.3	7.0	9.4	44.6	27.3	19.0	18.3	19.0	21.4	30.0	24.5	22.8
1976	21.9	8.0	9.0	41.0	24.7	18.4	17.4	18.2	21.7	32.3	26.0	21.5
All other accidents (E800-E807,E825-E949):	05.0		40.0		40.0	4	00.0	07.0	00.4	101.5	050.0	04.0
1977	25.3 25.0	29.1 33.4	13.0 10.7	20.1	18.6	17.7	22.8 22.5	27.3 29.5	39.4 40.4	101.2 102.2	253.0 280.7	21.9 21.7
1976Suicide (E950-E959);	25.0	33.4	10.7	18.9	18.8	18.7	22.0	29.0	40.4	102.2	200.7	21./
1977	13.1	l l	0.4	13.1	17.8	16.5	19.1	18.4	20.5	22,3	17.3	12.8
1976	12.5		0.3	11.7	15.9	16.3	19.2	20.0	19.5	20.8	18.9	12.3
Homicide (E960-E978):						4.5				ا ـ ـ ا		40.5
1977 1976	9.7 9.1	6.3 5.6	1.3 1.4	13.1 12.4	17.1 16.5	16.0 14.3	10.7 10.0	8.2 7.3	6.1 5.3	4.5 5.3	4.3 4.9	10.1 9.5
1 V / Vannanaanaanaanaanaanaanaanaanaanaanaana	9.1	9.0	1.4	12.4	10.5	14,3	10,0	7.5	5.3	5.3	4.9	9.9

<sup>&</sup>lt;sup>1</sup>The age-adjusted rates were computed by the direct method: age-specific death rates for a particular cause were applied to the standard population. The total population as enumerated in 1940, distributed by the same age groups shown in this table, was selected as the standard for 1977; for 1976 the same standard population and age distribution was used, except that the age group 1-14 years was divided into 1-4 and 5-14 years.

diseases in 1977. This third leading cause of death accounted for 9.6 percent of all deaths. The age-adjusted rate dropped 5.8 percent between 1976 and 1977, from 51.4 deaths per 100,000 population to 48.4, reaching the lowest level ever recorded for the United States. In addition, death rates for every age group declined between 1976 and 1977 (table G).

During 1968-77 the age-adjusted rate decreased each year, for a total reduction in mortality from this cause of 32.1 percent for the period.

Accidents.—There were an estimated 105,020 deaths from Accidents (the fourth leading cause of death) in 1977, including 50,380 from Motor vehicle accidents and 54,640 for All other accidents. Deaths from Accidents comprised 5.5 percent of the deaths from all causes. The age-adjusted death rate for Accidents increased 3.5 percent between 1976 and 1977, with Motor vehicle accidents increasing 6.0 percent and All other accidents increasing 0.9 percent.

During 1968-75 the age-adjusted rate for Motor vehicle accidents declined from 28.4 deaths per 100,000 population to 21.3. 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. Between 1975 and 1977, however, there appears to have been an upturn in mortality. The age-adjusted rate increased 7.0 percent, from 21.3 for 1975 to 22.8 for 1977.

For All other accidents the age-adjusted rates fluctuated during 1968-77, but the general trend was downward. The provisional age-adjusted rate for 1977 (21.9 deaths per 100,000 population) was 18.0 percent lower than the final rate for 1968 (26.7).

Influenza and pneumonia.—There were an estimated 49,960 deaths in 1977 for Influenza and pneumonia, the fifth leading cause of death. Since there was no influenza epidemic in 1977 and there was one in 1976, the age-adjusted rate for Influenza and pneumonia dropped considerably (20.7 percent) between the 2 years, from the final rate of 17.4 in 1976 to the provisional rate of 13.8 in 1977. The 1977 rate of 13.8 was

the lowest ever recorded for these causes in the United States.

For the 10-year period 1968-77 there were seven outbreaks of influenza. The age-adjusted rates for Influenza for these epidemic years ranged from 1.2 to 2.5 deaths per 100,000 population. For the nonepidemic years the age-adjusted rates were 0.5 for 1971, 0.6 for 1974, and 0.3 for 1977.

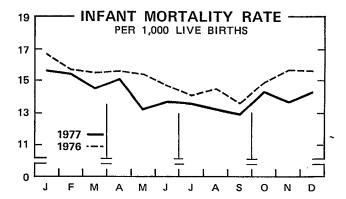
Diabetes mellitus.—In 1977 an estimated 33,570 persons died from Diabetes mellitus, the sixth leading cause of death. The age-adjusted rate for Diabetes mellitus declined 4.5 percent between 1976 and 1977. The death rate decreased for each age group 25 years and over except the age group 45-54 years (table G). During 1968-77 the age-adjusted rate for this cause declined 27.4 percent.

Cirrhosis of liver.—About 31,260 persons died from Cirrhosis of liver (the seventh leading cause of death) in 1977. The age-adjusted rate declined 2.2 percent between 1976 and 1977. During 1968-73 the age-adjusted rate increased 7.9 percent, from 13.9 deaths per 100,000 population to 15.0. During 1973-77, however, the rate has declined 11.3 percent, from 15.0 to an estimated 13.3.

Arteriosclerosis.—There were an estimated 29,040 deaths from Arteriosclerosis, the eighth leading cause of death. The provisional age-adjusted rate for 1977 (6.1 deaths per 100,000 population) was 4.7 percent lower than the final rate for 1976 (6.4). The rate of 6.1 was the lowest ever recorded for Arteriosclerosis in this country. During 1968-77 the rate declined 36.5 percent.

Suicide.—Suicide ranked as the ninth leading cause of death in this country. An estimated 28,390 persons committed suicide in 1977, about 1,558 more than in 1976. The provisional age-adjusted rate for 1977 (12.8 deaths per 100,000 population) was 4.1 percent higher than the final rate for 1976 (12.3). Between 1968 and 1977 age-adjusted rates for suicide fluctuated, but the general trend showed an increase of 17.4 percent during the period.

Certain causes of mortality in early infancy.—An estimated 23,310 deaths occurred for Certain causes of mortality in early infancy, the 10th leading cause of death. 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 from Certain causes of mortality in early infancy in 1977 (703.3 per 100,000 live births) was 10.0 percent lower than the final rate for 1976 (781.8). During 1968-77 the rate from this cause declined 43.7 percent. The rate for 1968 was 1,248.2 per 100,000 live births.

Bronchitis, emphysema, and asthma.—The decrease of 10.1 percent between 1976 and 1977 in the age-adjusted death rate for Bronchitis, emphysema, and asthma (ICDA Nos. 490-493), from 7.9 to 7.1 deaths per 100,000, is misleading. A possible increase in mortality from these causes between 1976 and 1977 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 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 1969-76 for these complementary categories and for their combinations. Provisional data for 1977 are not shown since data for category \*519.3 are not available. For the combination categories, the age-adjusted rate increased by 14.7 percent during the period 1969-76.

Year	Bronchitis, emphysema, and asthma (490-493)	Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (*519.3)	Combina- tion of 490-493 and *519.3
	Rate pe	er 100,000 popu	lation
1976 1975	7.9 8.6	6.8 5.7	14.8 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.—Homicide was the 12th leading cause of death with an estimated 21,090 deaths occurring in 1977. The provisional age-adjusted rate of 10.1 deaths per 100,000 population for 1977 was 6.3 percent higher than the final rate for 1976 (9.5) but below the 1974 rate of 10.8. During 1968-77 the age-adjusted rate increased by 21.7 percent.

Congenital anomalies.—In 1977 an estimated 12,540 deaths occurred from Congenital anomalies, making this cause the 13th leading cause of death in the United States. Since about 65 percent of these deaths (8,110) were to children under 1 year of age, the number of deaths to children under 1 year per 100,000 live births was used as an index of the change in the risk of dying. This provisional infant mortality rate from Congenital anomalies declined from 263.4 in 1976 to 244.8 in 1977, a reduction of 7.1 percent. During 1968-77 the rate declined by 22.4 percent. The rate in 1968 was 315.6 deaths per 100,000 live births.

Nephritis and nephrosis.—The 14th leading cause of death in 1977 was Nephritis and nephrosis with an estimated 8,130 deaths. The provisional age-adjusted rate for 1977 (2.6 deaths per 100,000 population) was about 7.1 percent lower than the final rate for 1976 (2.8). During 1968-77 the rate declined 33.3 percent.

Septicemia.—With 7,330 deaths, Septicemia was the 15th leading cause of death in 1977. The age-adjusted rate for 1977 (2.5 deaths per 100,000 population) was about 8.7 percent higher than the final rate for 1976 (2.3). During 1968-77 the rate has more than doubled.

#### Maternal and Infant Mortality

In 1977 the deaths of an estimated 310 women were assigned to Complications of pregnancy, childbirth, and the puerperium compared with a figure of 390 (final data) in the previous year. The provisional maternal mortality rate of

9.4 per 100,000 live births in 1977 is less than half the rate in 1968, 24.5. Maternal mortality rates for 1950 and each of the last 18 years are as follows:

1977 (est.) 9.4	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	1904 33.4
1970 21.5	1961 36.9
1969 22.2	1960 37.1
1968 24.5	1950 83.3

In 1977 there were approximately 46,500 infant deaths, resulting in an estimated infant mortality rate of 14.0 per 1,000 live births. This was the lowest annual rate ever recorded in the United States. The 1977 rate decreased 7.9 percent from the final rate of 15.2 for 1976 (table H). Record low rates were attained for both white and all other infants. Both the neonatal

Table H. INFANT MORTALITY RATES BY AGE AND COLOR: UNITED STATES, 1950 AND 1960-77

[For 1977, based on a 10-percent sample of deaths; for all other years, based on final data. Rates per 1,000 live births]

		Total			White		All other			
Year ·	Under 1 year	Under 28 days	28 days to 11 months	Under 1 year	Under 28 days	28 days to 11 months	Under 1 year	Under 28 days	28 days to 11 months	
1977 (est.) 1976 1975	14.0 15.2 16.1 16.7	9.8 10.9 11.6 12.3	4.2 4.3 4.5 4.4	12.4 13.3 14.2 14.8	8.7 9.7 10.4 11.1	3.7 3.6 3.8 3.7	21.0 23.5 24.2 24.9	14.5 16.3 16.8 17.2	6.5 7.2 7.5 7.7	
1973 1972 1971	17.7 18.5 19.1	13.0 13.6 14.2	4.8 4.8 4.9	15,8 16,4 17,1	11.8 12.4 13.0	3.9 4.0 4.0	26.2 27.7 28.5	17.9 19.2 19.6	8,8 3.8 9.8	
1970 1969 1968	20.0 20.9 21.8 22.4	15.1 15.6 16.1 16.5	4.9 5.3 5.7 5.9	17.8 18.4 19.2 19.7	13.8 14.2 14.7 15.0	4.0 4.2 4.5 4.7	30.9 32.9 34.5 35.9	21.4 22.5 23.0 23.8	9.9 10.4 11.6 12.7	
1967 1966 1965 1964	23.7 24.7 24.8	17.2 17.7 17.9	6.5 7.0 6.9	20.6 21.5 21.6	15.6 15.1 16.1 16.2	5.0 5.4 5.4	38.8 40.3 41.1	24.8 25.4 26.5	13.9 14.9 14.9	
1963 <sup>2</sup> 1962 <sup>2</sup> 1961	25.2 25.3 25.3	18.2 18.3 18.4	7.0 7.0 6.9	22.2 22.3 22.4	16.7 16.9 16.9	5.5 5.5 5.5	41.5 41.4 40.7	26.1 26.1 26.2	15.4 15.1	
1960 1950	26.0 29.2	18.7 20.5	7.3 8.7	22.9 26.8	17.2 19.4	5.7 7.4	43.2 44.5	26.9 27.5	16. 16.	

<sup>&</sup>lt;sup>1</sup>Based on a 50-percent sample of deaths.

<sup>&</sup>lt;sup>2</sup>Figures by color exclude data for residents of New Jersey.

Table J. INFANT MORTALITY RATES, BY AGE AND SELECTED CAUSES: UNITED STATES, 1973-77

[For 1977, 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	1977 (est.)	1976	1975	1974	1973
Total, under 1 year	14,0	15.2	16.1	16.7	17.7
Under 28 days28 days to 11 months	9.8	10.9 ·	11.6	12.3	13.0
	4.2	4.3	4.5	4.4	4.8
Certain gastrointestinal diseases	0.2	0.2	0.3	0.2	0.2
	0.5	0.6	0.7	0.8	1.1
	2.4	2.6	2.7	2.7	2.9
	0.4	0.6	0.6	0.6	0.6
	0.9	1.1	1.3	1.5	1.7
	1.2	1.3	1.4	1.5	1.7

Table K. DEATHS UNDER 1 YEAR AND INFANT MORTALITY RATES, BY MONTH: UNITED STATES, 1976 AND 1977

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

		Number		Rate				
Month	1977	1976	1976 (final)	1977	1976	1976 (final)		
Total	46,500 47,800		48,265	14,0	15.1	15.2		
January	4,200 3,900 4,000 3,900 3,600 3,700 4,000 3,900 4,000	4,300 3,800 4,100 3,800 3,900 3,700 3,900 4,000 3,800 4,100	4,200 3,938 4,033 3,949 4,014 3,897 3,910 3,976 3,876 4,117	15.6 15.4 14.5 15.1 13.2 13.7 13.6 13.2 12.9	16.7 15.7 15.6 15.6 15.4 14.7 14.1 14.5 13.6 14.9	16.3 16.2 15.6 16.2 16.0 15.2 14.1 14.1 13.7 14.8		
November December	3,600 4,000	4,100 4,200	4,115 4,240	13.7 14.3	15.7 15.6	15 15		

(under 28 days) and the postneonatal (28 days to 11 months) mortality rates declined between 1976 and 1977 (tables H and J).

#### **MARRIAGES**

According to provisional reports, both the number of marriages and the marriage rate

increased slightly in 1977. For the United States, a total of 2,176,000 marriages was reported for 1977, representing an increase of 21,000 (or 1 percent) over the final marriage total for 1976 (table L). Over the 16-year period from 1958 to 1973, the annual number of marriages increased steadily from 1,451,000 to 2,284,108. There was a decline in the final total

Table L. MARRIAGES AND MARRIAGE RATES, BY MONTH: UNITED STATES, 1976 AND 1977

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

		Number		Rate					
. Month	1977	1976	1976		nadjusted onal var		Adjust seas varia	onal	
	1977	1970	(final)	1977	1976	1976 (final)	1977	1976	
Total	2,176,000	2,133,000	2,154,807	10.1	9.9	10.0			
January	113,000	115,000	121,950	6.2	6.3	6.7	8.6	8.8	
February	129,000	129,000	138,777	7.8	7.6	8.2	10,1	9.8	
March	156,000	147,000	136,198	8.5	8.1	7 <i>.</i> 5	10.7	10.2	
April	159,000	156,000	158,139	9.0	8.9	9.0	10.4	10.3	
May	198,000	187,000	199,627	10.8	10.3	11.0	11.5	11.0	
June	279,000	253,000	243,097	15.7	14.4	13.8	10.3	9.5	
July	197,000	208,000	218,705	10.7	11.4	12.0	10.2	10.9	
August	239,000	236,000	225,699	13.0	13.0	12.4	9.9	9.8	
September	190,000	181,000	184,926	10.7	10.3	10.5	9,9	9.5	
October	167,000	174,000	186,006	9.1	9.6	10.2	9.6	10.1	
November	174,000	163,000	161,894	9.7	9.2	9.2	9.7	9.2	
December	176,000	183,000	179,789	9.5	10.0	9.9	9.5	10,0	

# Table M. MARRIAGES, DIVORCES, AND RATES: UNITED STATES, 1958-77

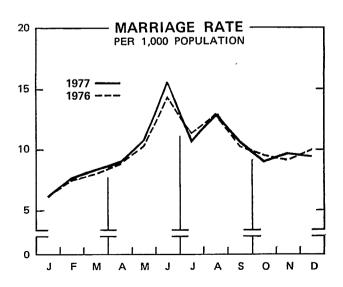
[Rates on an annual basis per 1,000 population. Data refer only to events occurring in the United States. Alaska included beginning with 1959 and Hawaii with 1960]

Year	Marria	ge	Divorce			
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>		
1977 <sup>2</sup>	2,176,000 2,154,807 2,152,662 2,229,667 2,284,108 2,282,154 2,190,481 2,158,802 2,145,000 2,069,000	10.1 10.0 10.1 10.5 10.9 11.0 10.6 10.6	1,090,000 1,083,000 1,036,000 977,000 915,000 845,000 773,000 708,000 639,000 584,000	5.0 5.0 4.9 4.6 4.4 4.1 3.7 3.5 3.2 2.9		
1967	1,927,000 1,857,000 1,800,000 1,725,000 1,654,000 1,577,000 1,548,000 1,523,000 1,494,000	9.7 9.5 9.3 9.0 8.8 8.5 8.5 8.5 8.5 8.4	523,000 499,000 479,000 450,000 428,000 413,000 414,000 393,000 395,000 368,000	2.6 2.5 2.5 2.4 2.3 2.2 2.3 2.2 2.2 2.1		

<sup>&</sup>lt;sup>1</sup>Rates are based on population enumerated as of April 1 for 1960 and 1970 and estimated as of July 1 for all other years. <sup>2</sup>Provisional.

for 1974 and again for 1975, followed by a slight increase in 1976 (table M).

The provisional marriage rate for 1977 was 10.1 per 1,000 population, up 1 percent over the final rate of 10.0 in 1976. This represented the first annual increase in the marriage rate since 1972. The rate had peaked at 11.0 in 1972, ending a gradual 14-year rise that began with a level of 8.4 in 1958.



Small increases in the number of marriages were reported in seven of the nine geographic divisions. The largest increase (2.1 percent) occurred in the South Atlantic Division compared with a 2.0-percent decline in marriages in the Middle Atlantic Division.

#### **DIVORCES**

An estimated 1,090,000 divorces were granted in the United States during 1977. This provisional total was 7,000 higher than the final number of divorces reported for 1976 (1,083,000), indicating a marked slowdown in the growth of the annual divorce total. The number of divorces in the United States increased rapidly after 1967 and more than doubled over the decade from 1967 to 1976.

The provisional divorce rate of 1977 was 5.0 per 1,000 population, the same as the final rate for 1976. This marked the first time since 1966 that there has been no increase in the annual divorce rate. The rise in the divorce rate has slowed in recent years, following a period of rapid growth between 1967 and 1973 when the average annual rate of increase was 11.5 percent.

In comparison with 1976 final divorce totals and rates, the provisional data by State for 1977 indicate that the number of divorces declined in 18 States and the District of Columbia, while the divorce rate declined in 20 States and the District of Columbia. The pattern of wide variation in the divorce rate among States continued to prevail in 1977. Nevada had the highest 1977 provisional divorce rate at 16.3 per 1,000 population, showing a decline from a final rate of 16.9 for 1976. All the other States reporting in 1977 had divorce rates between 2.7 (New Jersey) and 9.3 (Alaska).

#### **EXPLANATORY NOTES**

#### Nature and Sources of Data

All data for 1977 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 nonresidents of the United States. Data for nonresidents are included in provisional data for 1976 and 1977.

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.

Provisional marriage data by State are shown in table 1. For most States, data represent marriages reported. The following areas reported marriage licenses issued in some or all months of 1977: Alabama, Arizona, Arkansas, Connecticut, Florida, Georgia, Maryland, Nevada, New Mexico, New York City, Oregon, South Carolina, and Tennessee.

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 summary of monthly reports from 44 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 10percent systematic sample of death certificates received each month in State vital statistics offices. Deaths and death rates for 1977 by cause, age, color, and sex were estimated from this sample.

The sample was taken from death certificates received monthly during 1977 in the vital statistics offices in the 50 States, the District of Columbia, and the independent registration area of New York City. The sample for each of these areas consists of one-tenth of the death certificates received in the office between a given date and the same date of the following month. All death certificates received during the 1-month period are sampled regardless of the month or year in which the death occurred. As a result, the monthly sample is not strictly comparable to a sample on a month-of-occurrence basis. The proportion of death certificates received in the samples for each month of 1977 representing deaths occurring in the current month and those occurring in other months are shown in the following table:

	Deaths occurring in—							
Month	Same month	Previous month	All other months					
January	75.7	17.7	6.6					
February	71.9	21.2	6.9					
March	76.0	16.6	7.4					
April	76.1	18.5	5.4					
May	75.8	18.0	6.2					
June	73.7	19.3	7.0					
July	75.8	17.9	6.2					
August	75,4	18.8	5.9					
September	73,1	19.0	7.9					
October	76.7	17.0	6.2					
November	75.5	17.5	7.1					
December	76,5	16.9	6.6					

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 82 percent of the total as opposed to 75 percent of the entire sample. As for the year of occurrence, 97.3 percent of the 188,851 transcripts in the 1977 sample were for deaths occurring in 1976.

# 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 recurringly 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.

Cause of death	Adjusted weight (all ages)
Malignant neoplasms of genital organs180-187 Benign neoplasms and neoplasms of unspecified	10,18
nature210-239	9,29
Acute myocardial infarction410	9.92
All other forms of heart	
disease420-423,425-427,429	10,20
Other complications of pregnancy, childbirth, and the puerperium630-639,650-678	7,69
Congenital anomalies740-759	9,63
Birth injury, difficult labor, and other anoxic and hypoxic conditions764-768,772,776 Other causes of mortality in early	9.70
infancy Remainder of 760-778	10.53
Symptoms and ill-defined conditions780-796	7.93
Motor vechicle accidents E810-E823	10,43
All other accidents E800-E807,E825-E949	10,30
Suicide         E950-E959           Homicide         E960-E978	10.45 10.76

The sample data in this report are adjusted for such deficiencies based on the experience of the 3 years—1974, 1975, and 1976. 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 causes. The adjusted weights which were applied to the 1977 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 1977 sample for under 1 year of age are listed in the table below.

Cause of death	Adjusted weight (under 1 year)
Active rheumatic fever and chronic	
rheumatic heart disease390-398	12.00
Hypertensive heart disease402	12.00
Hypertensive heart and renal	_
disease404	12.00
Acute myocardial infarction410	12.00
Other acute and subacute forms of	
heart disease,411	12.00
Chronic ischemic heart disease412	12.00
Angina pectoris413	12,00
Chronic disease of endocardium and other	
myocardial insufficiency424,428	12.00
All other forms of heart	
disease420-423,425-427,429	12,00
Congenital anomalies740-759	9.55
Birth injury, difficult labor, and other anoxic and	
hypoxic conditions764-768,772,776	9.70
Other causes of mortality in early infancy Remainder of 760-778	10,53

The number of deaths for all ages for each of the 13 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 12 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" or "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.<sup>1</sup>

An adaption of the Eighth Revision of the Classification—Eighth Revision International Classification of Diseases, Adapted for Use in the United States<sup>2</sup>—was used beginning with 1968. The Seventh Revision was used for 1958 through 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.<sup>3</sup>

<sup>1</sup>World 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.

<sup>2</sup>National 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.

<sup>3</sup>National 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.

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. They were published by the U.S. Bureau of the Census in the following issues of *Current Population Reports*, Series P-25:

- No. 721. "Population Estimates and Projections," 1978.
- 2. No. 727. "Population Estimates and Projections," 1978.

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.

# 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 = 188,851, the total number of death certificates in the sample for 1977

Y = the final number of deaths from the given cause in the 3 years—1974, 1975, and 1976 combined

 $\dot{M} = 5,736,707$ , the final count of all deaths occurring in the 3 years—1974, 1975, and 1976 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 = 1,898,000, the provisional number of registered deaths in 1977.

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

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

Table 1. LIVE BIRTHS, MARRIAGES, AND RATES: EACH REPORTING AREA, 1976 AND 1977

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

Mainta			Liv	e births				Mar	riages <sup>1</sup>		
New England.	Area	Nur	nber		Rate		Num	ber		Rate	
Maintamphina		1977		1977	1976		1977		1977	1976	
Main	New England	153.218	146.242	12.5	11.9	12.0	94,818	95,596	7.7	7.7	7.8
New Hampshre	<u> </u>								10,6	10.6	10.6
Mestachustit:									10.4	10.2	10.4
Rindos Island									10.0	9.0	9.2
Connecticut											7.1
New York.											7.4 7.4
New York.	Middle Atlantic	482 529	474 136	13.0	12.7	12.7	273.009	278.701	7.4	7.4	7.5
New April   18,000											7.6
Pennsylvanis.											7.0
Chicago											7.6
Indiana	East North Central										9.3
Illinois											9,1
Michigan											10.5
Wissourh Centrel											9.9
West North Central   261,881   250,832   15.5   14.8   14.9   162,659   162,252   9.6   9.3   9.   Minnesota   60,145   56,939   15.1   14.2   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.3   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.4   31,933   32,034   7.9   8.4   8.   10.9   14.3   14.9   52,138   51,070   10.9   9.4   10.0   1											9,1 7.8
Minnesta	•	1									9.7
North Dakots											8,1
Missourl											9.0
South Dakota											10.7
Netropage	North Dakota	12,228	11,398	18.7	17.7	17.7	5,672	5,650	8.7	8.8	8.8
South Atlantic	South Dakota	11,917	11,488	17.3	16.6	16.7	10,300	10,781	14.9	15.7	15,7
South Atlantic   Sol. AB7	Nebraska	25,140	24,019	16.1	15.5	15.5	12,978	13,431	8.3	8.6	8.6
Delaware	Kansas	34,820	33,538	15.0	14.6	14.5	23,556	23,559	10,1	10.1	10.2
Maryland											10.9
District of Columbia   20,648   19,908   29,9   27,0   28,4   4,601   4,611   6.7   6.7   6.7   6.7   7.1   7.1   7.2   6.7   7.2											
Virginia											
North Carolina											11.2
North Carolina	West Virninia	30.118	28.583	16.2	15.6	15.7	17.522	17,229	9.4	9.4	9.5
South Carolina										7.8	7.8
Segrala   September   Septem										17.6	17.8
East South Central 236,900 222,578 17.1 16.3 16.3 161,232 159,488 11.7 11.9 11.  Kentucky 60,532 56,964 17.5 16.6 16.6 34,030 32,931 9.8 10.2 9.  Tennessee 70,032 65,653 16.3 15.5 15.6 55,327 53,270 12.9 12.7 12.  Alabama 60,917 57,283 16.5 15.7 15.6 45,394 46,515 12.3 13.0 12.  Mississippi 45,419 42,678 19.0 18.0 18.1 26,481 26,772 11.1 11.2 11.  West South Central 390,253 372,974 18.0 17.5 17.6 265,152 261,215 12.2 12.2 12.  Arkansas 34,502 33,294 16.1 15.7 15.8 24,038 24,913 11.2 10.7 11.  Louisina 76,155 70,002 19.4 18.1 18.2 38,343 37,999 9.8 10.2 9.  Oklahoma 43,805 42,269 15.6 15.3 15.3 41,440 40,983 14.7 14.7 14.7 12.5 12.5 12.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 12.5 12.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 220,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 120,111 216,208 21.9 21.2 22.  Mountain 194,613 184,939 19.4 18.8 18.8 18.8 120,111 216,208 21.9 12.5 12.5 12.1 12.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5		85,138	80,880	16.9	16.1	16.3	67,192	65,950	13.3	12.1	13.3
Kentucky.         60,532         56,964         17.5         16.6         16.6         34,030         32,931         9.8         10.2         9.7           Tennessee.         70,032         65,653         16.5         15.5         15.6         55,327         53,270         12.9         12.9         12.7         12.9         12.7         12.9         12.9         12.7         12.9         12.9         12.0         12.0         18.0         18.1         26,481         26,772         11.1         11.2         11.         11.2         11.1         11.2         12.2         12.2         12.2         12.2         12.2         12.2         12.2         12.2         12.2	Florida	111,414	104,005	13,2	12,4	12.4	89,142	86,143	10.5	10.2	10.2
Tennessee         70,032         66,633         16,3         15,5         15,6         55,327         53,270         12,9         12,7         12,7         12,8         13,0         12,3         13,0         12,7         12,3         13,0         12,2         12,3         13,0         12,2         12,3         13,0         12,2         12,3         13,0         12,2         12,3         13,0         12,2         12,3         13,0         12,2         12,3         13,0         12,2         11,1         11,2         11,1 <td></td> <td>11.7</td>											11.7
Alabarma       60,917       57,283       16.5       15.7       15.6       45,394       46,515       12.3       13.0       12.         Mississippi       45,419       42,678       19.0       18.0       17.5       15.6       26,481       26,772       11.1       11.2       11.1         West South Central       390,253       33,294       16.1       15.7       15.8       24,038       24,913       11.2       10.7       11.         Louisiana       76,155       70,002       19.4       18.1       18.2       38,343       37,999       9.8       10.2       9.         Oklahoma       43,805       42,269       15.6       15.3       15.3       41,440       40,983       14.7       14.7       14.7         Texas       235,791       227,409       18.4       18.1       18.2       216,331       157,320       12.6       12.5       12.         Mountain       194,613       184,939       19.4       18.8       18.8       220,111       216,208       21.9       21.2       22.         Mortana       13,004       12,260       17.1       16.5       16.4       7,532       7,390       9.9       9.7       9.9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Mississippi       45,419       42,678       19.0       18.0       18.1       26,481       26,772       11.1       11.2       11.         West South Central       390,253       372,974       18.0       17.5       17.6       265,152       261,215       12.2       12.2       12.2         Arkansas       34,502       33,294       16.1       15.7       15.8       24,038       24,913       11.2       10.7       11.         Louisiana       76,155       70,002       19.4       18.1       18.2       38,343       37,999       9.8       10.2       9.         Oklahoma       43,805       42,269       15.6       15.3       15.3       14,40       40,983       14.7       14.8       18.8       18.8       220,111       216,208       21.9       21.2       22.2       12.0       12.2       12.2       12.2       12.2       12.2       12.2       12.2       12.2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Arkansas         34,502         33,294         16.1         15.7         15.8         24,038         24,913         11.2         10.7         11.           Louisiana         76,155         70,002         19.4         18.1         18.2         38,343         37,999         9.8         10.2         9           Oklahoma         43,805         42,269         15.6         15.3         15.3         41,440         40,983         14.7         14.7         14.7           Texas         235,791         227,409         18.4         18.1         18.2         161,331         157,320         12.6         12.5         12.           Mountain         194,613         184,939         19.4         18.8         18.8         220,111         216,208         21.9         21.2         22.           Montana         13,004         12,360         17.1         16.5         16.4         7,532         7,390         9.9         9.7         9.           Idaho         18,242         16,884         21.3         20.2         20.3         13,439         13,104         15.7         15.8         15.           Wyoming         7,530         6,890         18.5         17.4         17.7											11.4
Arkansas         34,502         33,294         16.1         15.7         15.8         24,038         24,913         11.2         10.7         11.           Louisiana         76,155         70,002         19.4         18.1         18.2         38,343         37,999         9.8         10.2         9           Oklahoma         43,805         42,269         15.6         15.3         15.3         41,440         40,983         14.7         14.7         14.7           Texas         235,791         227,409         18.4         18.1         18.2         161,331         157,320         12.6         12.5         12.           Mountain         194,613         184,939         19.4         18.8         18.8         220,111         216,208         21.9         21.2         22.           Montana         13,004         12,360         17.1         16.5         16.4         7,532         7,390         9.9         9.7         9.           Idaho         18,242         16,884         21.3         20.2         20.3         13,439         13,104         15.7         15.8         15.           Wyoming         7,530         6,890         18.5         17.4         17.7	West South Central	390.253	372.974	18.0	17.5	17.6	265.152	261.215	12.2	12.2	12,3
Louisiana         76,155         70,002         19.4         18.1         18.2         38,343         37,999         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         9.8         10.2         14.7         14.8         14.											11.8
Texas         235,791         227,409         18.4         18.1         18.2         161,331         157,320         12.6         12.5         12.           Mountain         194,613         184,939         19.4         18.8         18.8         220,111         216,208         21.9         21.2         22.           Montana         13,004         12,360         17.1         16.5         16.4         7,532         7,390         9.9         9.7         9.           Idaho         18,242         16,884         21.3         20.2         20.3         13,439         13,104         15.7         15.8         15.           Wyoming         7,530         6,890         18.5         17.4         17.7         5,789         5,862         14.3         14.8         15.           Colorado         43,424         41,345         16.6         16.0         16.0         29,435         28,601         11.2         10.5         11.           New Mexico         22,433         21,666         18.9         18.9         18.5         12,445         15,616         10.5         10.6         13.           Arizona         41,591         40,044         18.1         17.7         17.6	Louisiana	76,155	70,002	19.4	18.1	18.2	38,343			10.2	9.9
Mountain         194,613         184,939         19.4         18.8         18.8         220,111         216,208         21.9         21.2         22.           Montana         13,004         12,360         17.1         16.5         16.4         7,532         7,390         9.9         9.7         9.9           Idaho         18,242         16,884         21.3         20.2         20.3         13,439         13,104         15.7         15.8         15.           Wyoming         7,530         6,890         18.5         17.4         17.7         5,789         5,862         14.3         14.8         15.           Colorado         43,424         41,345         16.6         16.0         16.0         29,435         28,601         11.2         10.5         11.           New Mexico         222,433         21,666         18.9         18.5         12,445         15,616         10.5         10.6         13.           Arizona         41,591         40,044         18.1         17.7         17.6         28,270         26,534         12.3         12.5         11.           Utah         38,237         36,220         30.2         29.3         29.5											14.8
Montans         13,004         12,360         17.1         16.5         16.4         7,532         7,390         9.9         9.7         9.0           Idaho         18,242         16,884         21.3         20.2         20.3         13,439         13,104         15.7         15.8         15.           Wyoming         7,530         6,890         18.5         17.4         17.7         5,789         5,862         14.3         14.8         15.           Colorado         43,424         41,345         16.6         16.0         16.0         29,435         28,601         11.2         10.5         11.           New Mexico         22,433         21,666         18.9         18.9         18.5         12,445         15,616         10.5         10.6         13.           Arizona         41,591         40,044         18.1         17.7         17.6         28,270         26,534         12.3         12.5         11.           Utah         38,237         36,220         30.2         29.3         29.5         15,188         14,693         12.0         11.6         12.           Nevada         10,152         9,530         16.0         15.8         15.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>1</td><td></td><td>l</td><td></td><td></td></t<>						ļ	1		l		
Idaho											
Wyoming         7,530         6,890         18.5         17.4         17.7         5,789         5,862         14.3         14.8         15.           Colorado         43,424         41,345         16.6         16.0         16.0         29,435         28,601         11.2         10.5         11.           New Mexico         22,433         21,666         18.9         18.5         12,445         15,616         10.5         10.6         13.           Arizona         41,591         40,044         18.1         17.7         17.6         28,270         26,534         12.3         12.5         11.           Utah         38,237         36,220         30.2         29.3         29.5         15,188         14,693         12.0         11.6         12.           Nevada         10,152         9,530         16.0         15.8         15.6         108,013         104,408         170.6         163.5         171.           Pacific         457,555         444,873         15.7         15.4         15.5         228,870         227,114         7.8         7.8         7.           Washington         55,038         52,804         15.0         13.8         14.6         41,30											9.8
Colorado.         43,424         41,345         16.6         16.0         29,435         28,601         11.2         10.5         11.           New Mexico.         22,433         21,666         18.9         18.9         18.5         12,445         15,616         10.5         10.6         13.           Arizona.         41,591         40,044         18.1         17.7         17.6         28,270         26,534         12.3         12.5         11.           Utah.         38,237         36,220         30.2         29.3         29.5         15,188         14,693         12.0         11.6         12.           Nevada.         10,152         9,530         16.0         15.8         15.6         108,013         104,408         170.6         163.5         171.           Pacific.         457,555         444,873         15.7         15.4         15.5         228,870         227,114         7.8         7.8         7.           Washington         55,038         52,804         15.0         13.8         14.6         41,308         41,986         11.3         11.3         11.3           Oregon.         38,398         35,613         16.2         15.3         15.3											
Arizona     41,591     40,044     18.1     17.7     17.6     28,270     26,534     12.3     12.5     11.       Utah     38,237     36,220     30.2     29.3     29.5     15,188     14,693     12.0     11.6     12.       Nevada     10,152     9,530     16.0     15.8     15.6     108,013     104,408     170.6     163.5     171.       Pacific     457,555     444,873     15.7     15.4     15.5     228,870     227,114     7.8     7.8       Washington     55,038     52,804     15.0     13.8     14.6     41,308     41,986     11.3     11.3     11.       Oregon     338,398     35,613     16.2     15.3     15.5     20,850     19,182     8.8     8.4     8.4       California     338,716     332,238     15.5     15.4     15.4     15.1,284     6.9     7.0     7.       Alaska     8,379     7,816     20.6     21.0     20.5     5,092     4,893     12.5     12.8     12.2											11.1
Arizona     41,591     40,044     18.1     17.7     17.6     28,270     26,534     12.3     12.5     11.       Utah     38,237     36,220     30.2     29.3     29.5     15,188     14,693     12.0     11.6     12.       Nevada     10,152     9,530     16.0     15.8     15.6     108,013     104,408     170.6     163.5     171.       Pacific     457,555     444,873     15.7     15.4     15.5     228,870     227,114     7.8     7.8       Washington     55,038     52,804     15.0     13.8     14.6     41,308     41,986     11.3     11.3     11.       Oregon     338,398     35,613     16.2     15.3     15.5     20,850     19,182     8.8     8.4     8.4       California     338,716     332,238     15.5     15.4     15.4     15.1,284     6.9     7.0     7.       Alaska     8,379     7,816     20.6     21.0     20.5     5,092     4,893     12.5     12.8     12.2	New Mexico	22,433	21,666	18.9	18.9	18.5	12,445	15,616	10.5	10.6	13.4
Utah											11.7
Pacific         457,555         444,873         15.7         15.4         15.5         228,870         227,114         7.8         7.8         7.           Washington         55,038         52,804         15.0         13.8         14.6         41,308         41,986         11.3         11.3         11.           Oregon         38,398         35,613         16.2         15.3         15.3         20,850         19,182         8.8         8.4         8.           California.         338,716         332,238         15.5         15.4         15.4         15.1,346         151,284         6.9         7.0         7.           Alaska         8,379         7,816         20.6         21.0         20.5         5,092         4,893         12.5         12.8         12.	Utah	38,237	36,220	30.2	29.3	29.5	15,188	14,693	12.0	11.6	12.0
Washington     55,038     52,804     15.0     13.8     14.6     41,308     41,986     11.3     11.3     11.       Oregon     38,398     35,613     16.2     15.3     15.3     20,850     19,182     8.8     8.4     8.       California     338,716     332,238     15.5     15.4     15.4     151,346     151,284     6.9     7.0     7.       Alaska     8,379     7,816     20.6     21.0     20.5     5,092     4,893     12.5     12.8     12.											
Oregon     38,398     35,613     16.2     15.3     15.3     20,850     19,182     8.8     8.4     8.       California     338,716     332,238     15.5     15.4     15.4     151,346     151,284     6.9     7.0     7.       Alaska     8,379     7,816     20.6     21.0     20.5     5,092     4,893     12.5     12.8     12.8											7.9
California     338,716     332,238     15.5     15.4     151,346     151,284     6.9     7.0     7.0       Alaska     8,379     7,816     20.6     21.0     20.5     5,092     4,893     12.5     12.8     12.8											11,6
Alaska											8.2
											7.0
	Alaska										12.8

 $<sup>^{\</sup>mathbf{1}}\mathbf{Data}\ \mathbf{are}\ \mathbf{either}\ \mathbf{marriages}\ \mathbf{reported}\ \mathbf{or}\ \mathbf{marriage}\ \mathbf{licenses}\ \mathbf{issued}; \mathbf{see}\ \mathbf{Explanatory}\ \mathbf{Notes.}$ 

#### Table 2. DEATHS, INFANT DEATHS, AND RATES: EACH REPORTING AREA, 1976 AND 1977

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

	Deaths (all ages)					Infant deaths (under 1 year)					
Area	Num	ber		Rate		Num	nber	Rate			
	1977	1976 (final)	1977	1976	1976 (final)	1977	1976 (final)	1977	1976	1976 (final)	
New England	109,266	111,984	8,9	9.2	9.2	1,630	1,853	10.6	12.2	12.7	
Maine	10,176	10,401	9.4	10.1	9.7	135	151	8.6	10.1	10.4	
New Hampshire	7,139 4,345	7,327 4,373	8.4 9.0	9.3 9.0	8.9 9.2	109 64	111 81	9.0 10.0	9.4 13.2	10.0 12.6	
Massachusetts	52.623	54,387	9.1	9,2	9.4	683	828	9.6	11.4	12,2	
Rhode Island	9,208	9,315	9.8	10.1	10.0	175	175	14.7	16.3	15.8	
Connecticut	25,775	26,181	8.3	8.4	8.4	464	507	12.9	14.2	14.3	
Middle Atlantic	349,951	356,510	9.4	9.6	9.6	7,259	7,406	15.0	15.5	15.6	
New York	165,923	171,952	9.3	9.5	9.5	3,914	3,814	16.5	16.2	16,1	
New Jersey	64,339	63,742	8.8	8.7	8.7	1,209	1,181	13.3	13.2	13.5	
Pennsylvania	119,689	120,816	10.2	10.2	10.2	2,136	2,411	13.9	15.7	16.1	
East North Central	356,513	358,896	8.7	8.8	8.8	8,761	8,965	14.0	14.8	15.0	
Ohio ,	96,238	95,814	9.0	8.9	9.0	2,270	2,315	14.0	14.5	14.9	
Indiana	46,852	46,781	8.8	8.8	8.8	1,122	1,122	13.1	14.2	13.9	
Illinois	100,998	101,221	9.0	9.0	9.0	2,748	2,750	15.8	16.3	16.4	
Michigan	73,124 39,301	74,959 40,121	8.0 8.5	8.2 8.7	8.2 8.7	1,880 741	1,985 793	13.7 10.8	14.9 12,2	15.2 12.3	
WISCOUSIN						ł					
West North Central	154,604	159,316	9.2	9.4	9.5	3,441	3,738	13.1	14.7	14.9	
Minnesota	32,216	33,458	8.1	8.4	8.4	678	840	11.3 12.0	14.2	14.8 13.4	
lowa Missouri	26,355 49,270	27,572 50,076	9.2 10.3	9.6 10.3	9.6 10.5	543 1,162	563 1,213	16.1	13.9 16.7	17.0	
North Dakota	5.492	5,751	8.4	9.0	8.9	162	156	13.2	13.7	13.7	
South Dakota	6,220	6,575	9,0	9.6	9.6	184	184	15.4	15.9	16.0	
Nebraska	14,390	14,690	9.2	9.4	9.5	295	360	11.7	14.5	15.0	
Kansas	20,661	21,194	8.9	9.2	9.2	417	422	12.0	12.6	12.6	
South Atlantic	310,082	307,772	9.0	9.0	9.1	7,893	8,130	15.5	17.0	16.9	
Delaware	4.884	4,970	8.4	8.5	8.5	103	103	11.7	12.1	12,4	
Maryland	31,338	31,706	7.6	7.6	7.7	594	748	12.4	14.4	16.4	
District of Columbia	7,460	9,180	10.8	13.0	13.1	474	478	23.0	25.4	24.0	
Virginia	39,444	39,590	7.7	7.9	7.9	1,091	1,098	15.3	16.1	16.3	
West Virginia	19,349	19,731	10.4	10.8	10.8	438	487	14.5	17.5	17.0	
North Carolina	46,701	46,115	8.5	8.4	8.4	1,426	1,448	16.8	19.2	18.0	
South Carolina	23,916	23,027	8.3	8.2	8.1	854	890	17.6	19.7	19.3	
Georgia,	43,431	42,196	8.6	8.4	8.5	1,211	1,282	14.2	15.5	15.9	
Florida	93,559	91,257	11.1	10.9	10.8	1,702	1,596	15.3	15,6	15.3	
East South Central	132,424	130,352	9.6	9.5	9.5	3,672	3,966	15.5	17.9	17.8	
Kentucky	34,035	32,165	9.8	9.4	9.4	812	803	13.4	14.3	14.1	
Tennessee	41,128	41,324	9.6	9.8	9.8	1,158	1,140	16.5	17.4	17.4	
Alabama	34,366 22,895	34,058 22,805	9.3 9.6	9.3 9.6	9.3 9.7	1,043   659	1,134 889	17.1 14.5	20.3 20.2	19.8 20.8	
	1	-		1		i					
West South Central	184,011	184,737	8.5	8.7	8.7	5,960	6,016	15.3	16.4	16.1	
Arkansas	20,986	21,129	9.8	10.1	10.0	480	480	13.9	18.0	14,4	
Louisiana Oklahoma	34,837 26,006	34,782 26,412	8.9 9.3	9.0 9.6	9.1 9.5	1,390 620	1,242 695	18.3 14.2	17.7 16.6	17.7 16.4	
Texas	102,182	102,414	8.0	8.2	8.2	3,470	3,599	14.7	15.8	15.8	
Mountain	73,856	73,460	7.4	7.5	7.5	2,488	2,597	12.8	13.9	14.0	
Montana	6,304	6,632	8.3	8.8	8.8	163	192	12.8	15.3	15.5	
Idaho	6,146	6,323	7.2	7.6	7.6	164	169	9.0	10.4	10.0	
Wyoming	2,953	3,109	7.3	7.9	8.0	79	98	10.5	14.3	14.2	
Colorado	18,494	18,668	7.1	7.3	7.2	577	592	13.3	14.0	14,3	
New Mexico	8,193	8,118	6.9	7.1	7.0	309	325	13.8	15.2	15.0	
Arizona	18,459	17,881	8.0	7.8	7.9	610	620	14.7	15.0	15.5	
Utah	7,976	7,808	6.3	6.3	6.4	453	463	11.8	12.8	12.8	
Nevada,	5,331	4,921	8.4	8.2	8.1	133	138	13.1	14.7	14.5	
Pacific	226,852	228,880	7.8	8.0	8.0	5,464	5,677	11.9	12.7	12.8	
Washington	30,074	30,565	8.2	8.3	8.5	649	781	11.8	14.5	14.8	
Oregon	20,710	20,493	8.7	8.8	8.8	480	464	12.5	13.0	13.0	
California	169,657	171,454	7.7	8.0	8.0	4,008	4,131	11.8	12.4	12.4	
Alaska	1,688	1,649	4.1	4.4	4.3	119	117	14.2	16.9	15.0	
Hawaii	4,723	4,719	5.3	5.3	5.3	208	184	12.2	11.3	11.2	

#### Table 3. DIVORCES AND DIVORCE RATES: UNITED STATES AND EACH REPORTING AREA, 1976 AND 1977

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

Page		Nu	nber	1	Rate	
United States   1,090,000	Area		Ι	-		
Total, 47 areas <sup>2</sup>		1977		1977	1976	
Alabara	United States <sup>1</sup>	1,090,000	1,083,000	5.0	5.0	5.0
Alaska	Total, 47 areas <sup>2</sup>	1,013,781	1,018,179	5.0	5.0	5.0
Arkanas	Alabama	23,505	24,056	6.4	6.6	6.6
Arkanas	Alaska	3,805	3,210	9.3	8.4	8.4
Colorado		18,366	18,365	8.6	8.2	8.7
Connecticut	California	132,888	133,824	6.1	6.2	6.2
Delaware		20,250	17,520	7.7	6.7	6.8
District of Columbia   2,935   3,092   4.3   4.0   4.4   4.6   4.5   4	Connecticut	11,859	11,705	3.8	3.4	3.8
Florida	Delaware	3,044	3,233	5.2	5.6	5.6
Florida	District of Columbia	2,935	3,092	4.3	4.0	4,4
Georgia		63,326	63,223	7.5	7.4	7.5
Haveil.		30,096	31,156	6.0	5.8	6.3
Idaho						
Lower   10,938   10,817   3.8   3.9   3.8   3.8   3.8   3.8   3.9   3.						
lower   10,938   10,817   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.8   3.8   3.9   3.9   3.8   3.8   3.9   3.	Illinois	50.553	51.810	4.5	4.5	4.6
Kanuss     12,652   12,833   5.4   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.6   5.5   5.7   5.5		10.938	10.817	3.8	3.8	
Kentucky         16,156         16,027         4.7         4.9         4.7           Maine         5,751         5,560         5.3         5.1         5.2           Maryland         15,701         16,101         3.8         3.8         3.9           Massachusetts         16,040         16,974         2.8         2.8         2.2         2.2         2.2         2.2         3.5						
Maine.         5,751         5,540         5.3         5.1         5.2           Maryland.         15,701         16,101         3.8         3.8         3.9           Massachusetts.         16,040         16,974         2.8         2.8         2.9           Michigan.         42,081         43,101         4.6         4.7         4.7         4.7           Minnesota.         13,898         13,822         3.5         3.5         3.5         3.5           Missispin.         12,828         12,243         5.4         5.1         5.2         Missispin.         25,621         25,414         5.3         5.3         5.3         5.3         Missispin.         4,841         4,850         6.4						
Maryland.         15,701         16,101         3.8         3.8         3.9           Massachusetts         16,040         16,974         2.8         2.8         2.9           Michigan         42,081         43,101         46         4.7         4.7         4.7           Mississippi.         13,896         13,822         3.5         3.5         3.5           Mississippi.         12,628         12,243         5.4         5.1         5.2           Missouri.         25,621         25,414         5.3         5.3         5.3           Morana.         4,241         4,850         6.4         6.4         6.4           Nebraska.         6,281         5,862         4.0         3.8         3.8           Nevada.         10,301         10,288         16.3         16.6         16.9           New Jersey.         20,007         21,816         2.7         2.4         3.0           New Jersey.         20,007         21,816         2.7         2.4         3.0           New York.         50,171         54,229         2.8         3.0         3.0           New York.         50,171         54,229         2.8         3.0						
Michigan       42,081       43,101       4.6       4.7						
Michigan       42,081       43,101       4.6       4.7	Massachusetts	16.040	16 974	28	28	20
Minnesota.       13,895       13,822       3.5       3.5       3.5         Mississippi.       25,621       2,243       5.4       5.1       5.2         Mississippi.       25,621       25,414       5.3       5.3       5.3         Montana.       4,841       4,860       6.4       6.4       6.4         Nebraska.       6,258       5,862       4.0       3.8       16.6       16.9         New Alexada.       10,301       10,288       16.3       16.6       16.9         New Hampshire.       4,256       4,322       5.0       5.8       5.3         New Jersey.       20,027       21,816       2.7       2.4       3.0         New Mexico.       6,880       9,118       5.8       6.1       7.8         New Mexico.       50,171       54,229       2.8       3.0       3.0         North Carolina.       25,065       24,327       4.5       4.5       4.4         North Dakota.       1,982       1,861       3.0       2.9       2.9         Ohio.       55,552       59,251       5.2       5.7       5.5         Okahoma.       1,982       1,620       21,489       7.6						
Missispipi       12,828       12,243       5,4       5,1       5,2         Missouri       25,621       25,414       5,3       5,3       5,3         Montana       4,841       4,850       6,4       6,4       6,4         Nebraska       6,258       5,962       4,0       3,8       3,8         Nev dada       10,301       10,288       16,3       16,6       16,9         New Hampshire       4,256       4,322       5,0       5,8       5,3         New Jersey       20,027       21,816       2,7       2,4       3,0         New Mexico       6,880       9,118       5,8       6,1       7,8         New York       50,171       54,229       2,8       3,0       3,0         North Carolina       25,065       24,327       4,5       4,5       4,4         North Dakota       1,982       1,3861       3,0       2,9       2,9       2,9         Oklahoma       1,982       1,489       7,6       7,9       7,8       2,5       5,5       5,5       5,5       5,5       5,5       5,5       5,5       3,6       3,1       3,1       3,1         Rhode Island						
Missouri     25,621     25,414     5.3     5.3     5.3       Montana     4,841     4,850     6.4     6.4     6.4       Montana     6,281     5,862     4.0     3.8     3.8       Nevada     10,301     10,298     16.3     16.6     16.9       New Hampshire     4,256     4,322     5.0     5.8     5.3       New Hampshire     20,027     21,816     2.7     2.4     3.0       New Jersey     6,890     9,118     5.8     6.1     7.8       New York     50,171     54,229     2.8     3.0     3.0       New York     50,171     54,229     2.8     3.0     3.0       North Carolina     25,065     24,327     4.5     4.4       North Dakota     1,982     1,861     3.0     2.9     2.9       Ohio     55,552     59,251     5.2     5.7     5.5       Origon     16,622     16,070     7.0     6.9     6.9       Pennsylvania     37,675     36,531     3.2     3.0     3.1       Rhode Island     3,414     3,276     3.7     3.5     3.5       South Carolina     11,428     10,641     4.0     3.5     3.7 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Montana       4,841       4,850       6.4       6.4       6.4         Nebraska       6,258       5,862       4,0       3.8       3.8         Nevada       10,301       10,288       16,3       16,6       16,9         New Hampshire       4,256       4,322       5.0       5.8       5.3         New Jersey       20,027       21,816       2.7       2.4       3.0         New Mexico       6,880       9,118       5.8       6.1       7.8         New York       50,171       54,229       2.8       3.0       3.0         North Carolina       25,065       24,327       4.5       4.5       4.4         North Dakota       1,982       1,861       3.0       2.9       2.9       2.9         Ohio       55,552       59,251       5.2       5.7       5.5       5.5       5.5       5.5       5.7       5.5       5.5       5.9       5.1       5.2       5.7       5.5       5.5       5.9       5.1       5.2       5.7       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5       5.5						
Nevada       10,301       10,298       16.3       16.6       16.9         New Hampshire       4,256       4,322       5.0       5.8       5.3         New Jersey       20,027       21,816       2.7       2.4       3.0         New Mexico       6,880       9,118       5.8       6.1       7.8         New York       50,171       54,229       2.8       3.0       3.0         North Carolina.       25,065       24,327       4.5       4.5       4.4         North Dakota.       1,982       1,861       3.0       2.9       2.9         Ohio       55,552       59,251       5.2       5.7       5.5         Oklahoma       21,450       21,489       7.6       7.9       7.8         Oregon       16,623       16,070       7.0       6.9       6.9         Pennsylvania       37,675       36,531       3.2       3.0       3.1         Rhode Island       3,414       3,276       3.7       3.5       3.5         South Dakota       3,414       3,276       3.7       3.5       3.5         South Dakota       382,277       27,002       6.6       <						
Nevada       10,301       10,298       16.3       16.6       16.9         New Hampshire       4,256       4,322       5.0       5.8       5.3         New Jersey       20,027       21,816       2.7       2.4       3.0         New Mexico       6,880       9,118       5.8       6.1       7.8         New York       50,171       54,229       2.8       3.0       3.0         North Carolina.       25,065       24,327       4.5       4.5       4.4         North Dakota.       1,982       1,861       3.0       2.9       2.9         Ohio       55,552       59,251       5.2       5.7       5.5         Oklahoma       21,450       21,489       7.6       7.9       7.8         Oregon       16,623       16,070       7.0       6.9       6.9         Pennsylvania       37,675       36,531       3.2       3.0       3.1         Rhode Island       3,414       3,276       3.7       3.5       3.5         South Dakota       3,414       3,276       3.7       3.5       3.5         South Dakota       382,277       27,002       6.6       <	Nebraska	6 258	5.862	40	38	38
New Hampshire       4,256       4,322       5,0       5,8       5,3         New Jersey       20,027       21,816       2,7       2,4       3,0         New Mexico       6,880       9,118       5,8       6,1       7,8         New York       50,171       54,229       2,8       3,0       3,0         North Carolina       25,065       24,327       4,5       4,5       4,4         North Dakota       1,982       1,861       3,0       2.9       2.9       2.9         Ohio       55,552       59,251       5,2       5,7       5,5       5,5       5,5       5,7       5,5       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,7       5,5       5,5       5,7       5,5       5,5       5,7       5,5       5,5       7,7       7,8       3,8       1,8       1,9       1,9       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4       3,4						
New Jersey     20,027     21,816     2.7     2.4     3.0       New Mexico     6,880     9,118     5.8     6.1     7.8       New York     50,171     54,229     2.8     3.0     3.0       North Carolina     25,065     24,327     4.5     4.5     4.4       North Dakota     1,982     1,861     3.0     2.9     2.9       Ohio     55,552     59,251     5.2     5.7     5.5       Oklahoma     21,450     21,489     7.6     7.9     7.8       Oregon     16,623     16,070     7.0     6.9     6.9       Pennsylvania     37,675     36,531     3.2     3.0     3.1       Rhode Island     3,414     3,276     3.7     3.5     3.5       South Carolina     3,414     3,276     3.7     3.5     3.5       South Carolina     11,428     10,641     4.0     3.5     3.7       Tennessee     28,227     27,002     6.6     6.6     6.4       Texas     83,215     79,905     6.5     6.4     6.4       Utah     1,938     1,905     4.0     3.9     4.0       Virginia     21,577     21,381     4.2     4.3     4						
New Mexico.       6,880       9,118       5.8       6,1       7.8         New York.       50,171       54,229       2.8       3.0       3.0         North Carolina.       25,065       24,327       4.5       4.5       4.4         North Dakota.       1,982       1,861       3.0       2.9       2.9       2.9         Ohio.       55,552       59,251       5.2       5.7       5.5       5.5       59,251       5.2       5.7       5.5       5.5       50,251       5.2       5.7       5.5       5.5       50,251       5.2       5.7       5.5       5.5       50,251       5.2       5.7       5.5       5.5       50,251       5.2       5.7       5.5       5.5       50,251       5.2       5.7       7.8       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.8       7.9       7.8       7.9       7.8       7.9       7.8       7.9       7.8						
New York.       50,171       54,229       2.8       3.0       3.0         North Carolina.       25,065       24,327       4.5       4.5       4.4         North Dakota.       1,982       1,861       3.0       2.9       2.9       2.9         Ohio.       55,552       59,251       5.2       5.7       5.5         Oklahoma.       21,450       21,489       7.6       7.9       7.8         Oregon.       16,623       16,070       7.0       6.9       6.9         Pennsylvania.       37,675       36,531       3.2       3.0       3.1         Rhode Island       3,414       3,276       3.7       3.5       3.5         South Carolina.       11,428       10,641       4.0       3.5       3.7         South Dakota.						
North Dakota     1,982     1,861     3.0     2.9     2.9       Ohio     55,552     59,251     5.2     5.7     5.5       Oklahoma     21,450     21,489     7.6     7.9     7.8       Oregon     16,623     16,070     7.0     6.9     6.9       Pennsylvania     37,675     36,531     3.2     3.0     3.1       Rhode Island     3,414     3,276     3.7     3.5     3.5       South Carolina     11,428     10,641     4.0     3.5     3.7       South Dakota	New York					
North Dakota     1,982     1,861     3.0     2.9     2.9       Ohio     55,552     59,251     5.2     5.7     5.5       Oklahoma     21,450     21,489     7.6     7.9     7.8       Oregon     16,623     16,070     7.0     6.9     6.9       Pennsylvania     37,675     36,531     3.2     3.0     3.1       Rhode Island     3,414     3,276     3.7     3.5     3.5       South Carolina     11,428     10,641     4.0     3.5     3.7       South Dakota	North Carolina	25.055	24 227	4.5	4.5	
Ohio.     55,552     59,251     5.2     5.7     5.5       Oklahoma.     21,450     21,489     7.6     7.9     7.8       Oregon.     16,623     16,070     7.0     6.9     6.9       Pennsylvania.     37,675     36,531     3.2     3.0     3.1       Rhode Island.     3,414     3,276     3.7     3.5     3.5       South Carolina.     11,428     10,641     4.0     3.5     3.7       South Dakota.						
Oklahoma       21,450       21,489       7.6       7.9       7.8         Oregon       16,623       16,070       7.0       6.9       6.9         Pennsylvania       37,675       36,531       3.2       3.0       3.1         Rhode Island       3,414       3,276       3.7       3.5       3.5         South Carolina       11,428       10,641       4.0       3.5       3.7         South Dakota	Ohio					
Oregon     16,623     16,070     7.0     6.9     6.9       Pennsylvania     37,675     36,531     3.2     3.0     3.1       Rhode Island     3,414     3,276     3.7     3.5     3.5       South Carolina     11,428     10,641     4.0     3.5     3.7       South Dakota						
Pennsylvania.       37,675       36,531       3.2       3.0       3.1         Rhode Island.       3,414       3,276       3.7       3.5       3.5         South Carolina.       11,428       10,641       4.0       3.5       3.7         South Dakota.						
South Carolina     11,428     10,641     4.0     3.5     3.7       South Dakota      2,350      3.4     3.4       Tennessee     28,227     27,002     6.6     6.6     6.4       Texas     83,215     79,905     6.5     6.4     6.4       Utah     6,901     6,170     5.4     5.0     5.0       Vermont     1,938     1,905     4.0     3.9     4.0       Virginia     21,577     21,381     4.2     4.3     4.2       Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,993     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2	Pennsylvania					
South Carolina     11,428     10,641     4.0     3.5     3.7       South Dakota      2,350      3.4     3.4       Tennessee     28,227     27,002     6.6     6.6     6.4       Texas     83,215     79,905     6.5     6.4     6.4       Utah     6,901     6,170     5.4     5.0     5.0       Vermont     1,938     1,905     4.0     3.9     4.0       Virginia     21,577     21,381     4.2     4.3     4.2       Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,993     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2	Rhode Island	2 414	2 276	9-3	2.5	~-
South Dakota						
Tennessee     28,227     27,002     6.6     6.6     6.4       Texas     83,215     79,905     6.5     6.4     6.4       Utah     6,901     6,170     5.4     5.0     5.0       Vermont     1,938     1,905     4.0     3.9     4.0       Virginia     21,577     21,381     4.2     4.3     4.2       Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,893     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2		11,428		4.0		
Texas     83,215     79,905     6.5     6.4     6.4       Utah     6,901     6,170     5.4     5.0     5.0       Vermont     1,938     1,905     4.0     3.9     4.0       Virginia     21,577     21,381     4.2     4.3     4.2       Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,893     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2		20.22				
Utah         6,901         6,170         5.4         5.0         5.0           Vermont         1,938         1,905         4.0         3.9         4.0           Virginia         21,577         21,381         4.2         4.3         4.2           Washington         25,646         27,072         7.0         7.4         7.5           West Virginia         9,552         8,893         5.1         5.0         4.9           Wisconsin         14,932         14,583         3.2         3.1         3.2						
Vermont         1,938         1,905         4,0         3,9         4,0           Virginia         21,577         21,381         4,2         4,3         4,2           Washington         25,646         27,072         7,0         7,4         7,5           West Virginia         9,552         8,893         5,1         5,0         4,9           Wisconsin         14,932         14,583         3,2         3,1         3,2						
Virginia     21,577     21,381     4.2     4.3     4.2       Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,893     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2		1 020	1.000		20	
Washington     25,646     27,072     7.0     7.4     7.5       West Virginia     9,552     8,893     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2						
West Virginia     9,552     8,893     5.1     5.0     4.9       Wisconsin     14,932     14,583     3.2     3.1     3.2	Washington					
Wisconsin						
3,065   2,650   1.5   1.2   1.3						
		3,005	2,850	/.0	1.2	1.3

<sup>&</sup>lt;sup>1</sup>Estimated. <sup>2</sup>Excludes figures for South Dakota.

#### Table 4. ABRIDGED LIFE TABLE FOR THE TOTAL POPULATION: UNITED STATES, 1977

[For explanation of the columns of the life table, see Section 5 of Vital Statistics of the United States, 1974, Volume II, Part A]

Age interval	Proportion dying	Of 100,000	) born alive	Stationary	population	Average remaining lifetime
Period of life between two exact ages stated in years	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 <sup>q</sup> x	I <sub>x</sub>	n <sup>d</sup> x	. n <sup>L</sup> x	$r_{x}$	ê <sub>x</sub>
0-1 1-5 5-10 10-15 15-20 20-25 25-30 30-35 33-35 40-45 40-45 55-60 60-65 65-70 70-75 75-80 80-85 85 and over	0.0141 0.0028 0.0018 0.0019 0.0053 0.0067 0.0068 0.0071 0.0237 0.0368 0.0557 0.0854 0.1156 0.1787 0.2648	100,000 98,593 98,315 98,141 97,956 97,434 96,786 96,128 95,446 94,529 93,097 90,893 87,550 82,678 75,618 66,880 54,927 40,383 25,812	1,407 278 174 185 522 648 658 682 917 1,432 2,204 3,343 4,872 7,060 8,738 11,953 14,544 14,571 25,812	98,659 393,726 491,107 490,315 488,596 485,571 482,285 479,009 475,085 469,301 460,319 446,627 426,227 396,554 357,096 305,464 238,783 164,897 166,309	7,315,927 7,217,268 6,823,542 6,332,435 5,842,120 5,353,524 4,867,953 4,385,668 3,906,659 3,431,574 2,962,273 2,501,954 2,055,327 1,629,100 1,232,546 875,450 569,986 331,203	64.5 55.6 54.9 50.3 45.6 40.9 36.3 31.8 27.5 23.5 19.7 16.3 13.1

#### Table 5. DEATH RATES BY MONTH: UNITED STATES, 1964-77

[For 1977, based on provisional figures; for all other years, based on final data. Rates on an annual basis per 1,000 population]

Month	1977	1976	1975	1974	1973	1972 <sup>1</sup>	1971	1970	1969	1968	1967	1966	1965	1964
Annual	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
anuary	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
ebruary	9.7	10.2	9.9	9.6	10.2	10.3	10.0	10.4	9.8	10.0	9.8	10.1	10.4	g
Varch	9.0	9.9	9.1	9.6	9.3	9.3	9.6	9.5	9.8	9.6	9.6	9.9	10.1	ç
April	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
Иау	8.5	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
une	8.5	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
uly	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
August	8.1	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
eptember	8.3	8.2	8.4	8.7	9.0	8.8	8.8	8.8	8.8	8.8	8.9	8.8	8.8	
October	8.6	8.6	8.6	9.0	9.1	9.2	9.1	9.2	9.2	9.1	9.2	9.3	9,3	
lovember	8.6	8.9	8.6	9.0	9.4	9.4	9.4	9.5	9.6	9.7	9.5	9.3	9.5	
December	9.1	9.2	9.1	9.6	9.7	10.0	9.9	9.7	10.0	11.3	10.2	9.8	9,9	

<sup>&</sup>lt;sup>1</sup>Based on a 50-percent sample of deaths.

#### Table 6. DEATH RATES BY AGE, COLOR, AND SEX: UNITED STATES, 1950, 1960, AND 1970-77

[For 1977, 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 <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
TOTAL												
977 (est.)	8.8	14.7	0,7	0.4	1.2	1.4	2.5	6.2	14.3	30.6	71.8	146.
976	8.9	16.0	0.7	0.3	1.1	1.4	2.5	6.3	14.8	31.3	73.3	154.
975	8.9	16.4	0.7	0.4	1.2	1.4	2.7	6.5	15.0	31.9	73.6	151
974	9.2	17.6	0.7.	0.4	1.2	1.5	2.8	6.8	15.5	33.3	76.5	165
973	9.4	18.1	0.8	0.4	1.3	1.5	3.0	7.0	16.1	34.4	79.3	174
972 <sup>2</sup>	9,4	18.3	0.8	0.4	1,3	1.5	3.0	7.1	16.3	35.3	79.7	173
971	9.3	19.0	0.8	0.4	1.3	1.6	3.1	7.1	16.2	34.9	78.7	174
970,,,,,,,,	9.5	21.4	0.8	0.4	1.3	1.6	3,1	7.3	16.6	35.8	80.0	163
960,	9.5	27.0	1,1	0.5	1.1	1.5	3.0	7.6	17.4	38.2	87.5	198
950	9.6	33.0	1.4	0.6	1.3	1.8	3.6	8.5	<sup>3</sup> 19.0	<sup>3</sup> 41.0	93.3	202
MALE												
977 (est.)	10.0	16.6	8.0	0.5	1.8	2.0	3.2	8.1	19.2	42.4	94.1	170
976,	10.1	17.6	0.8	0.4	1.7	1,9	3.3	8.3	20.0	43.4	95.1	179
975	10.1	18.3	0.8	0.4	1.8	2.0	3.5	8.6 8.9	20.3	44.1 45.8	95.2 97.9	175
974	10.4	19.7	0.8	0.5	1.8	2.1 2.1	3.6 3.8	9.2	21.1 22.1	45.8	101.1	198
973972972	10.7 10.8	20.3 20.6	0.9 0.9	0.5 0.5	1.9 1.9	2.1	3.9	9,4	22.1	48.2	101.2	196
971,	10.5	21.4	0.9	0.5	1.9	2.1	3.9	9.3	22.3	47.6	99.2	197
970,	10.9	24.1	0.9	0.5	1.9	2.2	4.0	9.6	22.8	48.7	100.1	178
960	11.0	30.6	1.2	0.6	1.5	1.9	3.7	9.9	23.1	49.1	101.8	211
950	11.1	37.3	1.5	0.7	1.7	2.2	4.3	10.7	24.0	49.3	104.3	216
FEMALE				]								
	7.7	12.8	0.6	0.3	0.6	8.0	1.7	4.3	9.9	21.5	58.3	135
977 (est.)976976	7.7	14.2	0.6	0.3	0.6	0.8	1.8	4.5	10.1	22.0	60.0	143
975	7.7	14.4	0.6	0.3	0.6	0.9	1.9	4.6	10.1	22,5	60.3	140
974	8.0	15.3	0.7	0.3	0.6	0.9	2.0	4.7	10.5	23.6	63.3	153
973	8.1	15.7	0.7	0.3	0.7	0.9	2,2	4.9	10.8	24.5	65.6	162
972 <sup>2</sup>	8.1	15.9	0.7	0.3	0.7	1.0	2.2	5.0	10.8	25.3	65.8	162
971	8.0	16.6	0.7	0,3	0.7	1.0	2.3	5.0	10.8	25.0	65.3	162
970	8.1	18.6	0.8	0.3	0.7	1.0	2.3	5.2	11,0	25.8	66.8	155
960	8.1	23.2	1.0	0.4	0.6	1.1	2,3	5.3	12.0	28.7	76.3	190
950	8.2	28.5	1.3	0.5	0.9	1,4	2.9	6.4	14.0	33.3	84.0	191
WHITE												
977 (est.)	8.9	12.6	0.7	0.3	1.1	1.2	2.1	5.7	13.7	29.9	71.8	152
976,	9.0	13.6	0.6	0.3	1.1	1.2	2.2	5.8	14.0	30.5	73.4	160
975	9.0	14.1	0.6	0.3	1.1	1.2	2.3	6.0	14.2	31.0	73.8	157
974	9.2	15.2	0.7	0.4	1.1	1.2	2.4 2.5	6.2 6.3	14.7	32.3 33.4	77.0	170
973972 <sup>2</sup>	9.4 9.5	15.7 15.8	0.7 0.7	0.4	1.2	1.3	2.5	6.5	15.3 15.5	34.3	80.2	178
971	9.4	16.6	0.7	0.4	1.1	1,3	2.6	6.5	15.4	33.9	79.1	179
970	9.5	18.7	0.8	0.4	1.2	1.3	2.7	6.7	15.8	34.9	80.4	168
960	9.5	23.6	1.0	0.4	1.0	1.2	2.6	6.9	16.3	37.4	88.3	203
950,	9.5	29.9	1.2	0.6	1.1	1.5	3.1	7.7	18.0	40.2	94.2	206
WHITE, MALE					f							
977 (est.)	10.0	14.4	0.8	0.5	1.7	1.7	2.8	7.5	18.5	41.9	94.6	178
976	10.1	15.1	0.7	0.4	1.6	1.6	2.8	7.7	19.2	42.8	96,0	18
975	10.2	15.9	0.7	0.4	1.7	1.7	3.0	7.9	19.5	43.6	96.1	183
974	10.4	17.3	8.0	0.5	1.7	1.7	3.1	8.2	20.3	45.1	99.0	198
973	10.7	17.8	0.8	0.5	1.8	1.8	3.2	8.4	21.2	46.5	102.1	20
972²	10.8	18.0	0.8	0.5	1.7	1.7	3.3	8.6	21.6	47.5	102.3	203
971	10.7	18.8	0.8	0.5	1.7	1.7	3.3	8.6	21.5	47.0	100.3	204
	4											
970 960	10.9 11.0	21.1	0.8 1.0	0.5 0.5	1.7 1.4	1.8	3.4	8.8 9.3	22.0 22.3	48.1 48.5	101.0	18

See footnotes at end of table.

Table 6. DEATH RATES BY AGE, COLOR, AND SEX: UNITED STATES, 1950, 1960, AND 1970-77-Con.

[For 1977, 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		,											
1977 (est.)	Color, sex, and year												
1976	WHITE, FEMALE												
1976	1977 (est.)	7.8	10.8	0.5	0.2	0.6	0.7	1.5	3.9	9.4	20.7	58.1	140.5
1974		7.9	11.9	0.6	0.3	0.5	0.7	1.6	4.1	9.4	21.1	59.8	148.2
1972					l .	1	t .		4.1	9.4		60.3	144.9
1972			1								1		1
1971												1	
1970													
1950													
ALL OTHER    1977 (est.)		1	l .	1			1						
1977 (est.)				i .		•							
1976	ALL OTHER												
1975		7.9	24.7	0.9	0.4	1.4	2.5	4.8	9.9	20.2	36.7	72.1	91.2
1974							2.7		10.7	21.5	38.3	72.4	100.2
1973		3				1	4		_	3	39.7	70.8	
1972 9.2 31.3 1.2 0.5 2.0 3.5 6.4 12.6 24.1 44.9 73.4 119.5 1971 9.2 32.5 1.3 0.5 2.0 3.5 6.6 12.9 24.3 44.9 75.1 107.5 1900 9.4 36.0 1.3 0.5 2.0 3.5 6.6 12.9 24.3 44.9 75.1 107.5 1900 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 33.3 35.2 80.4 144.7 75.1 1950 11.2 53.7 2.5 0.9 2.5 4.4 8.1 17.1 33.3 35.2 80.4 144.7 144.7 1976 1976 9.8 30.1 1.1 0.5 2.2 4.1 6.9 14.0 28.1 46.5 86.5 115.2 1976 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 12. 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 50.0 8.2 15.9 30.7 54.6 89.7 136.1 1972 10.9 36.1 1.4 0.7 2.8 50.0 8.2 15.9 30.7 54.6 89.7 136.1 1972 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 11.2 40.2 1.4 0.7 3.0 5.0 8.7 16.5 30.5 54.7 89.8 114.1 1960 11.2 40.2 1.4 0.7 3.0 5.0 8.7 16.5 30.5 54.7 89.8 114.1 1960 11.2 40.2 1.4 0.7 3.0 5.0 8.7 16.5 30.5 54.7 89.8 114.1 1960 11.2 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 21.0 8.8 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 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		1			1								
1971	1973										•		
1970													
1960													
1950													
1977 (est.)												ľ	l .
1976	ALL OTHER, MALE												
1976	1977 (est.)	9.5	27.1	1.0	0.6	2.3	3.9	6.8	12.6	26.2	46.2	88.6	106.1
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       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       50       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       13.6       3.4       2.7	1976	9.8	30.1	1.1	0.5	2.2	4.1	6.9					
1973	1975	10.0	30.0	1.1	0.6	2.4	4.5	7.4	14.2	28.1			1
19722		10.4	32.1	1.2	0.6	2.6	4.7	7.7	15.0	29.4	52.9	85.6	127.8
1971	1973			1.4	0.7		5.0	8.2	15.9	30.7	54.6	89.7	136.1
1970	19722											89.4	133.3
1960													
1950													
1977 (est.)     6.5     22.3     0.8     0.3     0.7     1.4     3.2     7.5     15.0     29.1     60.2     83.0       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     7.6     28.2     1.1     0.4     1.0     2.1     4.6     9.3     18.2     36.6     62.9     111.2       1971     7.6     29.0     1.1     0.4     1.0     2.1     4.6     9.3     18.3     36.3     62.0     112.7       1970     7.8     31.7     1.2     0.4     1.1     2.2     4.8     9.5     18.3     36.8     63.9     112.7       1970     7.8     31.7     1.2<													
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.     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       1980.     8.7     40.7     1.7     0.5     1.1     2.6     5.5     11.4     24.1     39.8     67.1     128.7	ALL OTHER, FEMALE	•											
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       1971     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       1980     8.7     40.7     1.7     0.5     1.1     2.6     5.5     11.4     24.1     39.8     67.1     128.7	1977 (est.)	6.5	22.3	0.8	0.3	0.7	1,4	3.2	7.5	15.0	29.1	60.2	83.0
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     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       1980     8.7     40.7     1.7     0.5     1.1     2.6     5.5     11.4     24.1     39.8     67.1     128.7	1976	6.8	25.4	0.9	0.3	0.8	1.6	3,4	7.7	15.9			
1974		6.8	25.2		0.3	_							
1973		7.2											
19722	1973	7.6	27.0	1.1	0.4	1.0	1.9	4.4	9.3	18.2			
1970	1972 <sup>2</sup>		28.2	1.1	0.4	1.0	2.1	4.6	9.3	18.3	36.8		
1970			29.0	1.1	0.4	1.1	2.2	4.8	9.5	18.3	36.3	62.0	112.7
1960		7.8	31.7	1.2	0.4	1.1	2.2	4.9	9.8	18.9	36.8	63.9	
1950					0.5	1.1	2.6	5.5	11.4	24.1			
	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

 <sup>1</sup> 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.

#### Table 7. DEATHS AND DEATH RATES, BY AGE, COLOR, AND SEX: UNITED STATES, 1977

[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]

	<del></del>								
		Total			White			All other	
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
NUMBER									
All ages	1,898,000	1,047,070	851,150	1,669,190	916,400	752,790	229,030	130,670	98,360
Under 1 year	46,500	26,820	19,680	33,120	19,380	13,740	13,380	7,440	5,940
	8,610	5,140	3,470	6,680	4,060	2,620	1,930	1,080	850
	13,270	8,780	4,490	10,590	7,080	3,510	2,680	1,700	980
15-24 years	48,900	36,630	12,290	40,080	29,870	10,210	8,840	6,760	2,080
	45,830	32,530	13,340	35,050	24,950	10,100	10,820	7,580	3,240
	57,910	37,080	20,880	43,470	27,850	15,620	14,490	9,230	5,260
45-54 years	143,770	91,530	52,290	117,510	75,950	41,560	26,310	15,580	10,730
	125,910	79,840	46,070	107,100	68,450	38,650	18,810	11,390	7,420
	166,310	105,600	60,710	145,260	93.090	52,170	21,050	12,510	8,540
65-69 years70-74 years	206,220	127,330	78,890	181,260	113,140	68,120	24,960	14,190	10,770
	239,590	141,010	98,580	212,650	126,200	86,450	26,940	14,810	12,130
75-79 years	247,140	131,600	115,540	223,330	118,880	104,450	23,810	12,720	11,090
	243,260	111,050	132,210	226,920	103,040	123,880	16,340	8,010	8,330
	304,440	111,940	192,520	285,860	104,300	181,560	18,600	7,640	10,960
Not stated	510	260	270	390	210	180	140	50	90
RATE									
All ages <sup>1</sup>	8.8	10.0	7.7	8.9	10.0	7.8	7.9	9.5	6.5
Under 1 year1-4 years	14.7	16.6	12.8	12.6	14.4	10.8	24.7	27.1	22.3
	0.7	0.8	0.6	0.7	0.8	0.5	0.9	1.0	0.8
5-14 years	0.4	0.5	0.3	0.3	0.5	0.2	0.4	0.6	0.3
	1.2	1.8	0.6	1.1	1.7	0.6	1.4	2.3	0.7
25-34 years35-44 years	1,4	2.0	0.8	1.2	1.7	0.7	2.5	3.9	1.4
	2.5	3.2	1.7	2.1	2.8	1.5	4.8	6.8	3.2
45-54 years55-59 years	6.2	8.1	4.3	5.7	7.5	3.9	9.9	12.6	7.5
	11.4	15.2	8.0	10.8	14.4	7.5	17.2	22.3	12.7
60-64 years	17.8	24.1	12.2	17.1	23.4	11.6	23.9	31.2	17.8
	24.4	34.1	16.8	24.0	33.9	16.2	27.6	35.8	21.2
	39.0	54.3	27.8	37.8	53.4	26.5	52.5	63.8	43.2
75-79 years	8.09	82.8	46.6	59.7	82.1	45.5	73.5	90.2	60.6
	0.88	112.3	74.5	89.7	114.9	75.9	70.1	86.1	59.5
85 years and over	146.4	170.9	135.2	152.5	178.9	140.5	91.2	106.1	83.0

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

#### Table 8. DEATHS FOR SELECTED CAUSES: UNITED STATES, 1972-77

			Nun	ber		
Cause of death	1977 (est.)	1976	1975	1974	1973	1972 <sup>1</sup>
All causes	1,898,000	1,909,440	1,892,879	1,934,388	1,973,003	1,963,944
Bacillary dysentery and amebiasis	30	55	62	57	64	90
Enteritis and other diarrheal diseases	1,510	1,939	2,010	2,255	2,322	2,286
Tuberculosis, all forms010-019	2,960	3,130	3,333	3,513	3,875	4,376
Tuberculosis of respiratory system	2,270	2,419	2,576	2,775	3,009	3,474
Tuberculosis, other forms013-019	690	711	757	738	866	902
Whooping cough	30	7	8 15	14 22	5 20	6 16
Streptococcal sore throat and scarlet fever	20 280	14 330	308	305	330	350
Meningococcal infections	7,330	6,401	5,584	5,243	4,560	4,214
Acute poliomyelitis	30	16	9	3	10	2
Measles	10	12	20	20	23	24
Infectious hepatitis	540	567	612	630	656	778
Syphilis and its sequelae090-097	130	225	272	300	393	344
Other infective and parasitic diseases	3,840	3,857	3,697	3,360	3,411	3,132
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues140-209	387,430	377,312	365,693	360,472	351,055	345,618
Malignant neoplasms of buccal cavity and pharynx140-149	8,370	8,114	8,135	7,968	7,822	7,482
Malignant neoplasms of digestive organs and peritoneum150-159	102,480	101,729	99,629	98,913	96,549	95,808 76,998
Malignant neoplasms of respiratory system160-163	93,940	91,131	86,675	83,475 32,424	79,335 32,143	31,460
Malignant neoplasm of breast	34,620 45,460	33,403 44,461	32,435 42,994	43,111	42,591	42,366
Malignant neoplasms of genital organs	17,230	16,980	16,533	16,457	15,877	15,738
Malignant neoplasms of all other and unspecified sites170-173,190-199	48,830	45,975	44,585	43,620	42,693	41,724
Leukemia	15,330	15,056	14,754	14,575	14,478	14,402
Other neoplasms of lymphatic and hematopoietic tissues	21,170	20,463	19,953	19,929	19,567	19,640
Benign neoplasms and neoplasms of unspecified nature210-239	4,850	4,719	4,947	5,060	5,013	4,956
Diabetes mellitus	33,570	34,508	35,230 2,615	37,329 2,527	38,208 2,576	38,674 2,538
Avitaminoses and other nutritional deficiencies	2,500 3,300	2,619 3,182	3,195	3,312	3,318	3,426
Anemias	1,620	1,589	1,630	1,539	1,523	1,482
Major cardiovascular diseases390-448	960,090	974,429	971,047	1,010,926	1,037,492	1,035,146
Diseases of heart	717,320	723,878	716,215	738,171	757,075	755,864
Active rheumatic fever and chronic rheumatic heart disease	12,560	13,110	12,930	13,302	13,739	14,118
Hypertensive heart disease402	6,660	6,670	6,693	7,167	7,268	7,760 5,778
Hypertensive heart and renal disease404	3,700 637,670	4,020 646,073	4,334 642,719	4,916 664,854	5,515 684,066	684,424
Ischemic heart disease	305,460	319,477	324,652	334,196	351,662	357,844
Acute myocardial infarction	3,900	4.028	4.069	4.418	4,503	4,528
Chronic ischemic heart disease	328,150	322,382	313,847	326,065	327,722	321,884
Angina pectoris413	160	186	151	175	179	168
Chronic disease of endocardium and other myocardial insufficiency424,428	3,930	4,195	4,411	4,895	5,137	5,612
All other forms of heart disease	52,800	49,810	45,128	43,037 6,894	41,350 7,428	38,172 7,754
Hypertension	5,310 182,840	6,130 188,623	6,300	207,424	214,313	213,344
Cerebrovascular diseases430-438	23,220	24,845	26.862	30,515	33,909	36,748
Cerebral hemorrhage	41,990	44,803	48,457	53,542	56,648	57,482
Cerebral embolism434	710	826	811	910	967	976
All other cerebrovascular diseases430,432,435-438	116,920	118,149	117,908	122,457	122,789	118,138
Arteriosclerosis	29,040	29,366	28,887	32,239	32,617	32,486
Other diseases of arteries, arterioles, and capillaries	25,580	26,432	25,607	26,198	26,059	25,698
Acute bronchitis and bronchiolitis466	680	854	737	750	905	1,146 62,580
Influenza and pneumonia470-474,480-486	49,960	61,866	55,664	54,777	62,559	02,580
Influenza and pheumonia	1,060	7,877	4,277	2,201	5,131	4,986

<sup>&</sup>lt;sup>1</sup>Based on a 50-percent sample of deaths.

#### Table 8. DEATHS FOR SELECTED CAUSES: UNITED STATES, 1972-77-Con.

			Nur	nber .		
Cause of death .	1977 (est.)	1976	1975	1974	1973	1972 <sup>1</sup>
Bronchitis, emphysema, and asthma490-493	22,220	24,410	25,468	26,880	29,708	30,768
Chronic and unqualified bronchitis490,491	4,310	4,639	4,712	5,097	5,547	5,862
Emphysema492	16,320	17,796	18,795	19,907	22,249	22,580
Asthma	1,590	1,975	1,961	1,876	1,912	2,326
Peptic ulcer	6,320	6,428	6,743	7,069	7,688	7,916
Appendicitis	750	752	822	864	1,066	1,206
Hernia and intestinal obstruction550-553,560	5,660	5,919	6,178	6,506	6,746	6,790
Cirrhosis of liver	31,260	31,453	31,623	33,319	33,350	32,576
Cholelithiasis, cholecystitis and cholangitis574,575	2,770	2,956	3,004	3,194	3,422	3,666
Nephritis and nephrosis580-584	8,130	8,541	8,072	8,068	8,336	8,548
Acute nephritis and nephrotic syndrome	1,820	1,759	1,585	1,541	1,536	1,466
Chronic and unqualified nephritis and renal sclerosis582-584	6,310	6,782	6,487	6,527	6,800	7,082
Infections of kidney	3.650	4,017	4,502	5,451	6,134	6.946
Hyperplasia of prostate	910	1,077	1,221	1,377	1,589	1.862
Complications of pregnancy, childbirth, and the puerperium	310	390	403	462	477	612
Abortions	0.0	16	27	27	36	70
Other complications of pregnancy, childbirth, and the puerperium630-639,650-678	310	374	376	435	441	542
Congenitel anomalies740-759	12.540	13,002	13,245	13,526	14.062	14.698
Certain causes of mortality in early infancy760-769.2,769.4-772,774-778	23,310	24,809	26,616	28,786	30,503	33,798
Birth injury, difficult labor, and other anoxic and hypoxic conditions,764-768,772,776	12,380	13,432	14,593	15,974	16,933	18,704
Other causes of mortality in early infancyRemainder of 760-778	10,930	11,377	12.023	12,812	13,570	15.094
Symptoms and ill-defined conditions	32,150	30,802	31,768	31,145	30,399	27,500
All other diseases	128,620	125,340	120,263	118,396	114,751	110,710
Accidents	105,020	100,761	103,030	104,622	115,821	115,448
Motor vehicle accidents	50,380	47,038	45,853	46,402	55,511	56,278
All other accidentsE800-E807,E825-E949	54,640	53,723	57,177	58,220	60,310	59,170
Suicide	28,390	26,832	27,063	25,683	25,118	25,004
HomicideE960-E978	21,090	19,554	21,310	21,465	20,465	19,638
Other external causes E980-E999	4,230	4,766	4,860	5,161	5,050	5,074

 $<sup>\</sup>mathbf{1}_{\mathrm{Based}}$  on a 50-percent sample of deaths.

#### Table 9. DEATH RATES FOR SELECTED CAUSES: UNITED STATES, 1972-77

Cause of death			Ra	te		
Ladde of death	1977 (est.)	1976	1975	1974	1973	1972 <sup>1</sup>
All causes	877.4	889.6	888.5	915.1	940.2	943,2
Bacillary dysentery and amebiasis	0.0	0.0	0.0	0.0	0,0	0,0
Enteritis and other diarrheal diseases	0.7	0.9	0.9	1,1	1.1	1.1
Tuberculosis, all forms	1.4	1.5	1.6	1.7	1.8	2.1
Tuberculosis of respiratory system010-012	1.0	1.1	1.2	1,3	1.4	1.7
Tuberculosis, other forms013-019	0.3	0.3	0.4	0.3	0.4	0.4
Whooping cough	0.0	0.0	0.0	0.0	0,0	0.0
Streptococcal sore throat and scarlet fever	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infections	0.1	0.2	0.1	0.1	0.2	0.2
Septicemia	3,4 0.0	3.0 0.0	2.6 0.0	2.5 0.0	2.2 0.0	2.0 0.0
7 to to positivity in a second property of the positivity in a second positivity in a secon						
Measles055	0.0	0.0	0.0	0.0	0.0	0,0
Infectious hepatitis	0.2	0.3	0.3	0.3	0.3	0.4
Syphilis and its sequelae	0.1	0.1	0.1	0.1	0.2	0.2 1.5
Other infective and parasitic diseasesRemainder of 000-136	1.8	1.8	1.7	1.6	1.6	1.5
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues140-209	179.1	175.8	171.7	170.5	167.3	166.0
Malignant neoplasms of buccal cavity and pharynx140-149	3.9	3.8	3.8	3.8	3.7	3.6
Malignant neoplasms of digestive organs and peritoneum150-159	47.4	47.4	46.8	46.8	46.0	46.0
Malignant neoplasms of respiratory system160-163	43,4 16.0	42.5 15.6	40.7 15.2	39.5 15.3	37.8 15.3	37.0 15.1
Malignant neoplasm of breast	21.0	20.7	20.2	20.4	20.3	20,3
Malignant neoplasms of urinary organs	8.0	7.9	7.8	7.8	7.6	7.6
Malignant neoplasms of other and unspecified sites170-173,190-199	22.6	21.4	20.9	20.6	20.3	20.0
Leukemia	7.1	7.0	6.9	6.9	6.9	6.9
Other neoplasms of lymphatic and hematopoietic tissues200-203,208,209	9.8	9.5	9.4	9.4	9.3	9.4
Benign neoplasms and neoplasms of unspecified nature	2.2	2.2	2.3	2.4	2.4	2,4
Diabetes mellitus250	15.5	16.1	16.5	17.7	18.2	18.6
Avitaminoses and other nutritional deficiencies260-269	1.2	1.2	1.2	1.2	1.2	1.2
Anemias	1.5	1.5	1.5	1.6	1.6	1,6
Meningitis	0.7	0.7	8.0	0.7	0.7	0.7
Major cardiovascular diseases	443.8	454.0	455.8	478.2	494.4	497.1
Diseases of heart	331.6	337.2	336.2	349.2	360.8	363.0
Active rheumatic fever and chronic rheumatic heart disease390-398	5.8	6.1	6.1	6.3	6.5	6,8
Hypertensive heart disease402	3.1	3.1	3.1	3.4	3.5	3.7
Hypertensive heart and renal disease404	1.7	1.9	2.0	2.3	2.6	2.8
Ischemic heart disease	294.8 141.2	301.0 148.8	301.7 152.4	314.5 158.1	326.0 167.6	328.7 171.9
Acute myocardial infarction	141.2	1.9	1.9	2.1	2.1	2.2
Chronic ischemic heart disease412	151.7	150.2	147.3	154.2	156.2	154.6
Angina pectoris	0.1	0.1	0.1	0.1	0.1	0.1
Chronic disease of endocardium and other myocardial insufficiency424,428	1.8	2.0	2.1	2.3	2.4	2.7
All other forms of heart disease420-423,425-427,429	24.4	23.2	21.2	20.4	19.7	18.3
Hypertension	2.5	2.9	3.0	3.3	3.5	3.7
Cerebrovascular diseases	84.5 10.7	87.9 11.6	91.1 12.6	98.1 14.4	102.1 16.2	102.5 17.6
Cerebral thrombosis	19.4	20.9	22.7	25.3	27.0	27.6
Cerebral embolism	0,3	0,4	0.4	0,4	0.5	0.5
All other cerebrovascular diseases430,432,435-438	54.0	55.0	55.3	57.9	58.5	56.7
Arteriosclerosis440	13.4	13.7	13.6	15.3	15.5	15,6
Other diseases of arteries, arterioles, and capillaries	11.8	12.3	12.0	12.4	12.4	12.3
Acute bronchitis and bronchiolitis	0.3	0.4	0.3	0.4	0.4	0.6
Influenza and pneumonia	23.1 0.5	28.8 3.7	26.1 2.0	25.9 1.0	29.8 2.4	30.1 2.4
Pneumonia	22.6	25.2	24.1	24.9	27.4	27.7

<sup>&</sup>lt;sup>1</sup>Based on a 50-percent sample of deaths.

### Table 9. DEATH RATES FOR SELECTED CAUSES: UNITED STATES, 1972-77-Con.

<u> </u>			Ra	te		
Cause of death	1977 (est.)	1976	1975	1974	1973	1972 <sup>1</sup>
Bronchitis, emphysema, and asthma490-493	10.3	11,4	12.0	12.7	14.2	14.8
Chronic and unqualified bronchitis	2.0	2.2	2.2	2.4	2.6	2.8
Emphysema492	7.5	8.3	8.8	9.4	10.6	10.8
Asthma493	0.7	0.9	0.9	0.9	0.9	1.1
Peptic ulcer	2.9	3.0	3.2	3.3	3.7	3.8
Appendicitis	0.3	0.4	0.4	0.4	0.5	0.6
Hernia and intestinal obstruction	2.6	2.8	2.9	3.1	3.2	3.3
Cirrhosis of liver	14.5	14.7	14.8	15.8	15.9	15.6
Cholelithiasis, cholecystitis and cholangitis	1.3	1.4	1.4	1.5	1.6	1.8
lephritis and nephrosis580-584	3.8	4.0	3.8	3.8	4.0	4.
Acute nephritis and nephrotic syndrome	0.8	0.8	0.7	0.7	0.7	0.7
Chronic and unqualified nephritis and renal sclerosis	2.9	3.2	3.0	3.1	3.2	3.4
nfections of kidney590	1.7	1.9	2.1	2.6	2.9	3.3
lyperplasia of prostate	0.4	0.5	0.6	0.7	0.8	0.5
omplications of pregnancy, childbirth, and the puerperium	0.1	0,2	0.2	0.2	0.2	0.
Abortions	- 1	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.
Congenital anomalies740-759	5.8	6.1	6.2	6.4	6.7	7.
ertain causes of mortality in early infancy	10.8	11.6	12.5	13.6	14.5	16.
Birth injury, difficult labor, and other anoxic and hypoxic conditions764-768,772,776	5.7	6.3	6.9	7.6	8.1	9.0
Other causes of mortality in early infancyRemainder of 760-778	5.1	5.3	5.6	6.1	6.5	7.3
ymptoms and ill-defined conditions780-796	14.9	14.3	14.9	14.7	14.5	13.
Il other diseasesResidual	59.5	58.4	56.5	56.0	54.7	53.
ccidents	48.5	46.9	48.4	49.5	55.2	55.4
Motor vehicle accidents	23.3		21.5	22.0	26.5	27.0
All other accidentsE800-E807,E825-E949	25.3	25.0	26.8	27.5	28.7	28.
ulcideE950-E959	13.1	12.5	12.7	12.1	12.0	12.
lomicide	9.7	9.1	10.0	10.2	9.8	9.
ther external causesE980-E999	2.0	2.2	2.3	2.4	2.4	2.

<sup>&</sup>lt;sup>1</sup>Based on a 50-percent sample of deaths.

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