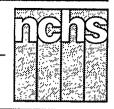
Monthly Vital Statistics Report



Provisional Data From the National Center for Health Statistics

Births, Marriages, Divorces, and Deaths for November 1991

Mortality Surveillance System

pages 5-7

Accidents and adverse effects and Homicide and legal intervention:

Males 25-44 years of age by race

Births

According to provisional reports, an estimated 327,000 births occurred in the United States during November 1991. This was a decrease of 2 percent from the provisional number of births reported for November (333,000). The birth rate, 15.7 live births per 1,000 population, was also 2 percent lower than the rate for November 1990 (16.1). The fertility rate, 67.6 live births per 1,000 women 15-44 years, was 2 percent lower than the comparable rate for November 1990 (68.8). The seasonally adjusted fertility rate (69.6) was 1 percent

below the rate for the same month in 1990 (70.6).

During the first 11 months of 1991, an estimated 3,773,000 births occurred, a decline of 1 percent from the 3,829,000 reported for the first 11 months of 1990. The January–November birth rate declined by 2 percent from 16.7 in 1990 to 16.3 in 1991. The fertility rate for this period (69.9) also was 2 percent lower than the comparable rate for January–November 1990 (71.2).

An estimated 4,123,000 live births occurred in the 12-month period ending with November 1991. This was a decrease of 1 percent compared

Provisional Vital Statistics for the United States

[Rates for Infant deaths are infant mortality rates per 1,000 live births; all other rates per 1,000 population. Data are subject to monthly reporting variation; see Technical notes]

	•	Novem	ber			January-Nov	ember		12 months ending with November						
	Nur	nber	Ra	ate	Nur	nber	Ra	ate	Nui	nber		Ra	te		
Item	1991	1990	1991	1990	1991	1990	1991	1990	1991	1990	1991	1990	1989	1988	
Live births	327,000	333,000	15.7	16.1	3,773,000	3,829,000	16.3	16.7	4,123,000	4,170,000	16.3	16.6	16.1	15.9	
Deaths	177,000	169,000	8.4	8.2	1,974,000	1,977,000	8.5	8.6	2,161,000	2,175,000	8.5	8.7	8.6	8.8	
Natural increase	150,000	164,000	7.3	7.9	1,799,000	1,852,000	7.8	8.1	1,962,000	1,995,000	7.8	7.9	7.5	7.1	
Marriages	168,000	190,000	8.0	9.2	2,179,000	2,256,000	9.4	9.8	2,370,000	2,464,000	9.4	9.8	9.7	9.7	
Divorces	94,000	96,000	4.5	4.6	1,088,000	1,077,000	4.7	4.7	1,186,000	1,184,000	4.7	4.7	4.7	4.8	
Infant deaths	2,900	3,000	8.8	8.7	33,500	34,900	8.9	9.2	36,700	38,200	9.0	9.1	9.7	10.0	

NOTE: Figures Include all revisions received from the States. Cumulative figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published.





with the 4,170,000 births reported for the 12 months ending with November 1990. The birth rate of 16.3 was 2 percent lower than the rate of 16.6 for the preceding 12-month period. The fertility rate for the most recent 12-month period was 69.8, a decline of 2 percent from the rate for the comparable period a year earlier (71.0). The 12-month rates, which had been increasing since mid-1987, have been generally decreasing since early 1991.

Natural increase

As a result of natural increase, the excess of births over deaths, an estimated 150,000 people, or 7.3 people per 1,000 population, were added to the population during November 1991.

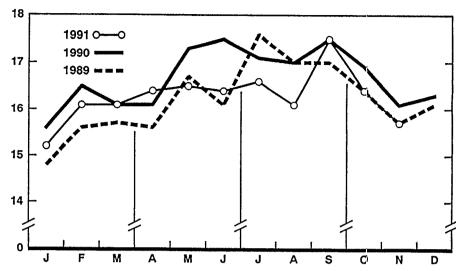
For the 12-month period ending with November 1991, 1,962,000 persons were added to the population. This represents a rate of natural increase of 7.8, 1 percent lower than the rate of 7.9 for the preceding 12-month period. Although both the birth and death rates declined by 2 percent, there was a decrease in the rate of natural increase due to a larger absolute decrease in the birth rate than in the death rate.

Marriages

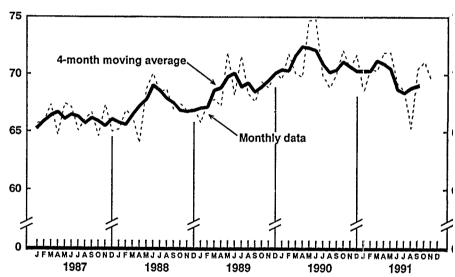
The estimated number of marriages for November 1991 was 168,000, a decline from the number for November 1990 (190,000). The marriage rate for November (per 1,000 population) was also lower in 1991 (8.0) than in 1990 (9.2).

Marriages for January–November 1991 totaled 2,179,000, a 3-percent decline from the number for the same 11-month period of the previous year (2,256,000). The marriage rate for January–November dropped 4 percent, from 9.8 in 1990 to 9.4 in 1991.

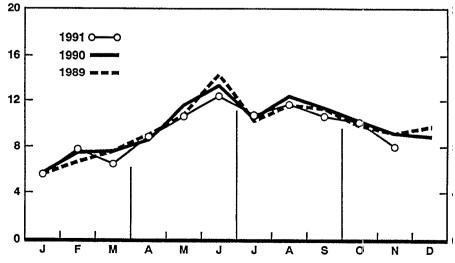
For the 12-month period ending with November 1991, the number of marriages and the marriage rate were both 4 percent lower than for the 12-month period ending with November 1990. The number of marriages dropped from 2,464,000 to 2,370,000 while the marriage rate declined from 9.8 to 9.4.



Provisional birth rates per 1,000 population by month: United States, 1989-91



Provisional seasonally adjusted fertility rates per 1,000 women aged 15–44: United State 1987–91



Provisional marriage rates per 1,000 population by month: United States, 1989-91

Divorces

The number of divorces and the divorce rate (per 1,000 population) for November 1991 were both 2 percent lower than for November 1990. The number of divorces dropped by 2,000, from 96,000 to 94,000, and the divorce rate dropped from 4.6 to 4.5.

Although the monthly number for November declined from 1990 to 1991, divorces granted during January-November 1991 numbered 1,088,000, 1 percent higher than for the comparable period of 1990 (1,077,000). The divorce rate for the 11-month period, however, was 4.7 for both years.

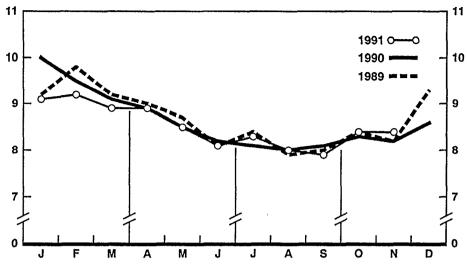
The number of divorces and the divorce rate for the 12-month period ending with November 1991 were very close to or the same as the figures for the comparable period of a year earlier. The number of divorces increased by less than 1 percent, from 1,184,000 in 1990 to 1,186,000 in 1991, and the divorce rate was 4.7 for both years.

Deaths

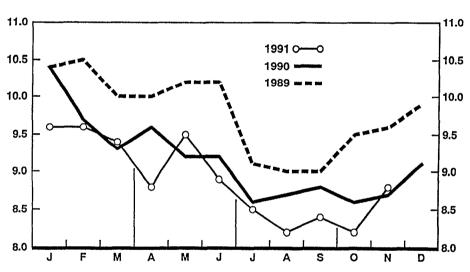
For November 1991 there were an estimated 177,000 deaths in the United States. The death rate was 8.4 deaths per 1,000 population, 2 percent higher than the rate for November a year earlier. Among the 177,000 deaths for November 1991 were 2,900 deaths at ages under 1 year.

According to provisional statistics there were 1,974,000 deaths during the first 11 months of 1991, about the same as estimated for January-November 1990 (1,977,000). The death rate, 8.5 per 1,000 population, was 1 percent lower than the January-November 1990 rate of 8.6. Among the 1,974,000 deaths for the first 11 months of 1991 were 33,500 deaths at ages under 1 year, yielding an infant mortality rate of 8.9 per 1,000 live births. This rate was 3 percent lower than the rate of 9.2 for the first 11 months of 1990.

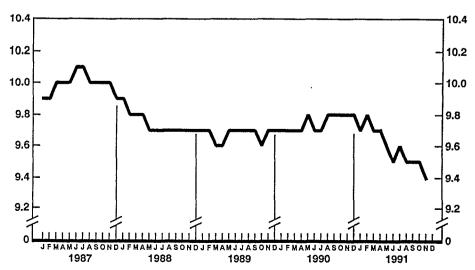
The death rate for the 12 months ending with November 1991 was 8.5 deaths per 1,000 population, 2 percent lower than the rate of 8.7 for the comparable 12-month period a year earlier. The infant mortality rate was



Provisional death rates per 1,000 population by month: United States, 1989-91



Provisional infant mortality rates per 1,000 live births by month: United States, 1989-91



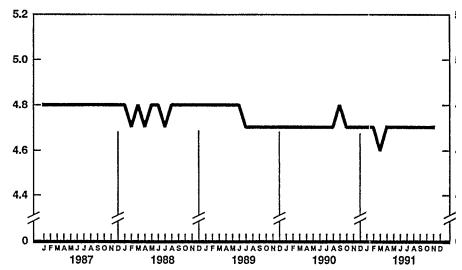
Provisional marriage rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1987–91

9.0 per 1,000 live births, compared with a rate of 9.1 for the 12 months ending with November 1990. The change in the 12-month infant mortality rate was not statistically significant.

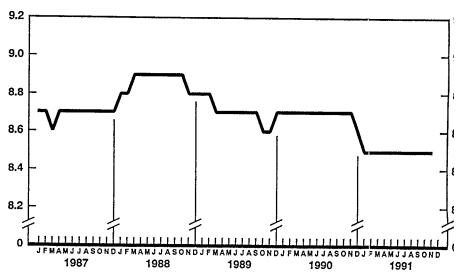
Current Mortality Sample, months ending with October 1991 - The provisional death rate for 12 months ending with October 1991 was 851.3 deaths per 100,000 population, 2 percent lower than the rate of 868.3 for the 12-month period ending October 1990. Age-adjusted death rates control for changes and variations in the age composition of the population; therefore, they are better indicators than crude rates for showing changes in mortality risk over time and showing differences between race-sex groups within the population. The provisional age-adjusted death rate for the 12-month period ending with October 1991 was 506.2 deaths per 100,000 population, 3 percent lower than the rate of 519.4 for the 12-month period ending with October 1990. Among the race-sex groups the estimated age-adjusted death rates decreased for white males, white females, and black females. By age, the death rate for the total population decreased for the following age groups: under 1 year, 45-54 years. 55-64 years, 65-74 years, 75-84 years. and 85 years and over.

Among the major causes of death the estimated death rate increased between the two successive 12-month periods for Human immunodeficiency virus infection. The death rate decreased between the two successive 12-month periods for Diseases of heart, Cerebrovascular diseases. Accidents and adverse effects, Chronic obstructive pulmonary diseases and allied conditions, Pneumonia and influenza, Suicide, Chronic liver disease and cirrhosis, and Septicemia.

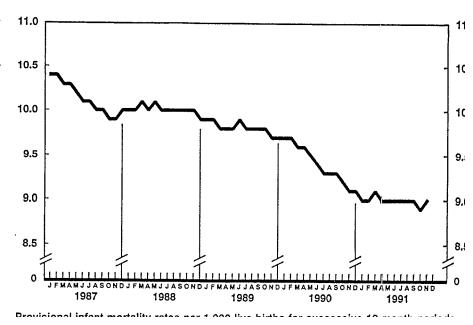
The infant mortality rate for the 12 months ending with October 1991 was 893.9 per 100,000 live births. 3 percent lower than the rate of 921.4 for the same 12-month period a year earlier. For infants under 28 days the rate was 564.2 compared with a rate of 573.1 for the 12-month period a year earlier. The infant mortality rate for



Provisional divorce rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1987–91



Provisional death rates per 1,000 population for successive 12-month periods ending will month indicated: United States, 1987–91



compared with a rate of 349.6 for the 12-month period a year earlier. The changes in the mortality rates for infants under 28 days and for those 28 days to 11 months were not statistically significant. Among causes of infant death the infant mortality rate increased between the two successive 12-month periods for Disorders relating to short gestation and unspecified low birthweight. The infant mortality rate decreased between the two successive 12-month periods for Sudden infant death syndrome.

Mortality Surveillance System

Discussed this month are recent trends in death rates for Accidents and

adverse effects (accidents) and Homicide and legal intervention (homicide) for black and white men aged 25–44 years. In this issue, final mortality data are analyzed for data year 1989 and provisional data from January 1982–May 1991.

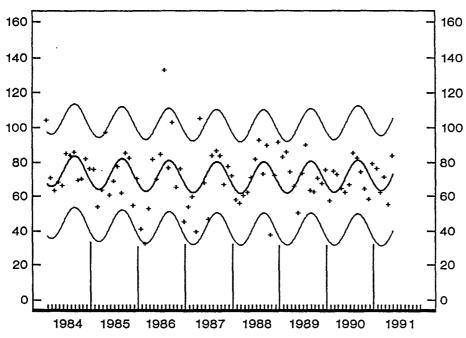
In 1989, the latest year for which final mortality data are available, homicide accounted for 15 percent of all deaths for the black population aged 25-44 years, compared with 5 percent for the white population in this age group. Accidental deaths accounted for 13 percent and 22 percent of all deaths for the respective age-race groups. Homicide was the leading cause of death for the black population in this age group and was

the sixth for the white population. Accidental deaths ranked third and first among all deaths for the black and white populations, respectively, for persons aged 25–44 years.

Based on 1989 final data, the death rate for accidents for black men aged 25–44 years was 1.5 times the rate for white men aged 25–44 years, while the rate for homicide for black men aged 25–44 years was 8.1 times the rate for white men in the same age group. Trends based on provisional data for these causes and demographic groups are presented in the Mortality Surveillance System charts and accompanying text that follow.

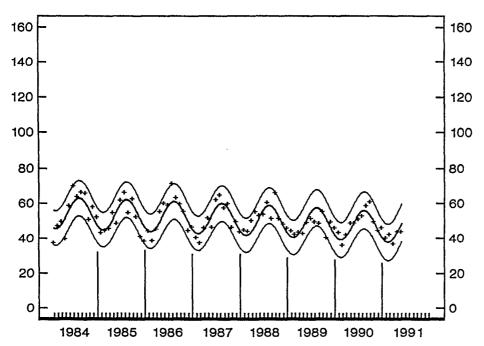
Mortality Surveillance System Charts

[Observed and fitted provisional monthly death rates and 95-percent prediction intervals. Models fitted to provisional data for January 1982–May 1990; see Technical notes]



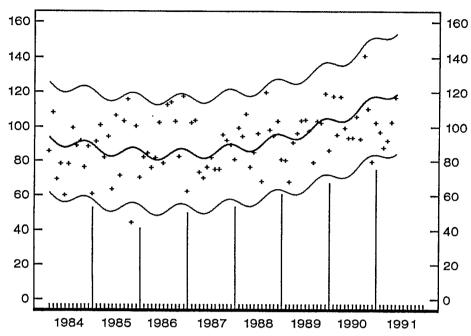
Provisional death rates per 100,000 black males 25–44 years of age for Accidents and adverse effects, by month: United States, 1984–91

In 1989, the latest year for which final mortality data are available, Accidents and adverse effects was the third leading cause of death for black men aged 25-44 years (after Homicide and legal intervention and Human immunodeficiency virus infection) accounted for 3,476 deaths, or 14 percent of all deaths. For the period shown in the chart through May 1990. provisional death rates for Accidents and adverse effects decreased for black men aged 25-44 years. For the most recent 12-month period, June 1990-May 1991, the observed monthly rates fell within the 95-percent prediction intervals of a model estimated on the basis of provisional monthly death rates for January 1982-May 1990, Provisional death rates for black men in this age group showed a seasonal pattern of mortality with a tendency for rates to be higher in the late summer.



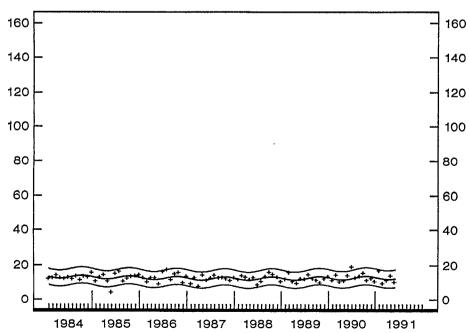
Provisional death rates per 100,000 white males 25–44 years of age for Accidents and adverse effects, by month: United States, 1984–91

According to 1989 final data, Accidents and adverse effects was the leading cause of death for white mer aged 25-44 years and accounted for 17,792 deaths, or 24 percent of all deaths for this age-race-sex group. For the period shown in the chart through May 1990, provisional death rates for this cause of death decreased for white men in this age group. For the mos recent 12-month period, June 1990-May 1991, the observed monthly rate: were within the 95-percent prediction intervals of a model estimated on the basis of provisional monthly death rates for January 1982-May 1990. Provisional death rates for white men in this age group showed a seasonal pattern of mortality with a tendency for rates to be higher in the summer



Provisional death rates per 100,000 black males 25–44 years of age for Homicide and legal intervention, by month: United States, 1984–91

In 1989, the latest year for which final data are available. Homicide and legal intervention was the leading cause of death for black men aged 25-44 years and accounted for 4,392 deaths, or 18 percent of all deaths for this age-race-sex group. Provisional death rates for this cause for black men aged 25-44 years decreased from January 1982 to the mid-1980's and increased since then through May 1990. For the most recent 12-month period, June 1990-May 1991, the observed monthly rates, except for 1 month, were within the 95-percent prediction intervals of a model estimated on the basis of provisional monthly death rates for January 1982-May 1990. Provisional death rates for black men in this age group showed a seasonal pattern of mortality with a tendency for rates to be higher in the fall.



Provisional death rates per 100,000 white males 25–44 years of age for Homicide and legal intervention, by month: United States, 1984–91

According to 1989 final data, Homicide and legal intervention was the sixth leading cause of death for white men aged 25-44 years and accounted for 4.174 deaths, or 6 percent of all deaths for this age-race-sex group. For these white men, provisional death rates for Homicide and legal intervention decreased from January 1982 to the mid-1980's and, as shown in the chart, have remained stable since then through May 1990. For the most recent 12-month period, June 1990-May 1991, the observed monthly rates, except for 1 month, were within the 95-percent prediction intervals of a model estimated on the basis of provisional monthly death rates for January 1982-May 1990. Provisional death rates for white men in this age group showed a seasonal pattern of mortality with a tendency for rates to be higher in the fall.

Symbols

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

Table 1. Provisional number of live births, marriages, deaths, infant deaths, and rates, by month: United States, January 1990–November 1991

[Data are provisional and are subject to monthly reporting variation; see Technical notes]

		ı	Live births		Mai	rriages	De	eaths	Infant	t deaths
		Rate per	Rate per 1,000	women 15-44		Rate per		Rate per		Rate per
Period	1,000 Seasone Period Number population Unadjusted adjuste	Seasonally adjusted ¹	Number	1,000 population	Number	1,000 population	Number	1,000 live births		
1990:										
January	330,000	15.6	66.4	69.6	121,000	5.7	213,000	10.0	3,500	10.4
February	316,000	16.5	70.2	71.8	143,000	7.5	182,000	9.5	3,100	9.7
March	342,000	16.1	68.7	70.1	161,000	7.6	193,000	9.1	3,200	9.3
April	330,000	16.1	68.5	69.8	177,000	8.6	182,000	8.9	3,200	9.6
May	368,000	17.3	73.9	74.7	247,000	11.6	180,000	8.5	3,300	9.2
June	361,000	17.5	74.7	74.8	274,000	13.3	169,000	8.2	3,200	9.2
July	364,000	17.1	72.9	69.9	224,000	10.5	173,000	8.1	3,100	8.6
August	362,000	17.0	72.6	68.9	264,000	12.4	170,000	8.0	3,100	8.7
September	362,000	17.5	74.8	70.0	236,000	11.4	168,000	8.1	3,100	8.8
October	361,000	16.9	72.2	72.1	219,000	10.3	178,000	8.3	3,100	8.6
November	333,000	16.1	68.8	70.6	190,000	9.2	169,000	8.2	3,000	8.7
December	350,000	16.3	70.0	71.7	191,000	8.9	185,000	8.6	3,200	9.1
1991:										
January	325,000	15.2	65.0	68.5	120,000	5.6	195,000	9.1	3,300	9.6
February	312,000	16.1	68.9	70.5	151,000	7.8	179,000	9.2	3,100	9.6
March	346,000	16.1	69.0	70.3	140,000	6.5	191,000	8.9	3,200	9.4
April	340,000	16.4	70.2	71.9	186,000	8.9	185,000	8.9	3,000	8.8
May	355,000	16.5	70.9	71.9	229,000	10.7	183,000	8.5	3,300	9.5
June	342,000	16.4	70.4	69.3	257,000	12.4	168,000	8.1	3,000	8.9
July	358,000	16.6	71.4	68.7	232,000	10.8	178,000	8.3	3,000	8.5
August	346,000	16.1	69.1	65.3	253,000	11.7	172,000	8.0	2,800	8.2
September	365,000	17.5	75.3	70.5	223,000	10.7	165,000	7.9	2,900	8.4
October	355,000	16.4	70.9	71.1	220,000	10.2	180,000	8.4	2,900	8.2
November,	327,000	15.7	67.6	69.6	168,000	8.0	177,000	8.4	2,900	8.8

¹The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15 (1967 revision).

NOTE: Figures include all revisions received from the States and, therefore, may differ from those previously published.

Table 2. Provisional number of live births and deaths: each division and State, November 1990 and 1991, and cumulative figures, 1989-91

[Data are estimates by State of residence; see Technical notes]

			Live births					Deaths		
	Nove	mber	Jar	uary–Novem	ber	Nove	mber	Jar	nuary–Novem	ber
Area	1991	1990	1991	1990	1989	1991	1990	1991	1990	198
New England	114,341	16,507	¹ 161,226	187,528	183,180	19,262	9,411	192,994	105,523	105,
Maine	4 4 4 4 0	970		15,573	15,745		946		10,172	9,6
New Hampshire	1,119 640	1,249 640	14,844 7,247	15,928 7,648	16,661 7,570	720 363	698 386	7,743	7,774	7,8
Massachusetts	6,834	7,666	81,309	87,049	85,522	4,964	4,587	4,202 47,378	4,263 50,312	4,(50,(
Rhode Island	1,129	1,254	13,410	13,784	13,367	782	651	8,449	8,526	8,6
Connecticut	4,619	4,728	44,416	47,546	44,315	2,433	2,143	25,222	24,476	25,2
Middle Atlantic	45,387	48,433	529,626	548,116	531,574	29,544	28.541	328,522	331,234	333,0
New York	22,445	24,108	271,488	280,140	269,163	13,152	13,034	152,755	154,916	156,0
New Jersey	9,478	10,676	101,612	109,625	106,623	6,087	5,593	63,742	64,049	64,€
Pennsylvania	13,464	13,649	156,526	158,351	155,788	10,305	9,914	112,025	112,269	112,4
East North Central	¹ 36,973	53,260	¹ 430,096	619,964	596,139	¹ 21,780	30,905	¹ 245,561	341,684	339,2
Ohio	12,814	13,145	144,348	150,424	147,054	8,212	8,238	89,106	90,562	89,3
Indiana	7,217	7,262	78,427	78,682	76,228	3,861	4,153	45,115	45,707	44,4
Michigan	11,424	15,849 11,922	141,649	178,125 146,325	175,043 131,760	6,124	8,432	70 000	94,509	95,0
Wisconsin	5,518	5,082	65,672	66,408	66,054	3,583	6,687 3,395	72,288 39,052	72,704 38,202	72,3 38,0
									•	-
West North Central	20,636 5,094	22,036	239,872	251,144	243,470	14,064	13,040	147,712	149,093	148,4
lowa	3,742	5,073 3,006	61,501 32,668	63,109 35,180	60,888 35,722	3,024 2,564	2,885 2,257	32,003	31,778	31,2
Missouri	6,227	6,990	70,883	74,614	71,836	4,347	3,910	23,719 47,052	25,305 46,865	23,3 49,3
North Dakota	680	745	8,367	8,769	9,168	505	427	5,105	5,192	4,5
South Dakota	872	862	10,229	10,185	10,247	560	477	6,049	5,920	6,0
Nebraska	1,998	1,991	22,151	22,080	22,117	1,378	1,325	13,298	13,315	13,4
Kansas	2,023	3,369	34,073	37,207	33,492	1,686	1,759	20,486	20,718	20,0
South Atlantic	¹ 44,116	55,394	¹ 552,459	645,716	620.960	¹ 27,908	31,724	¹ 326,513	359,691	356,0
Delaware	693	1,027	10,289	10,469	10,252	459	514	5,316	5,304	5,3
Maryland		6,553		74,994	68,348		2,976		34,708	35,2
District of Columbia	593	866	9,317	10,059	10,351	302	616	6,009	6,881	7,1
Virginia	7,251	7,922	89,131	92,294	89,025	4,201	3,949	44,501	44,193	42,5
West Virginia	1,406 8,134	1,560 7,932	20,720	20,551	20,167	1,456	1,485	18,134	18,094	17,7
South Carolina	4,021	4,694	93,566 52,302	95,787 53,972	93,921 52,829	4,907 2,236	4,574 2,386	53,417	52,378	52,0
Georgia	6,506	7,922	100,235	103,201	100,618	3,445	4,331	27,018 48,236	27,121 48,623	27,C 49,1
Florida	15,512	16,918	176,899	184,389	175,449	10,902	10,893	123,882	122,389	119,6
East South Central	18.867	18,300	212,917	219,778	212,977	12,037	11,065	131,193	133,698	129,5
Kentucky	4,217	3,998	50,493	53,132	50,302	2,802	2,911	31,956	32,781	32,2
Tennessee	5,589	5,229	66,231	66,522	67,014	3,688	3,191	41,287	41,436	40.5
Alabama	5,441	5,279	56,067	59,704	56,202	3,234	2,909	34,588	36,327	34,0
Mississippi	3,620	3,794	40,126	40,420	39,459	2,313	2,054	23,362	23,154	22,6
West South Central	39,722	41,306	440,125	440,407	407,897	18,043	16,370	204,052	201,252	194,4
Arkansas	2,729	2,976	31,778	33,215	32,937	2,028	1,944	21,978	22,745	22,5
Louisiana	6,915	5,545	68,991	67,091	62,074	2,707	2,282	34,721	33,881	32,1
Oklahoma	3,630	4,136	43,675	43,580	43,927	2,407	2,493	27,710	27,907	27,0
Texas ²	26,448	28,649	295,681	296,521	268,959	10,901	9,651	119,643	116,719	112,5
Mountain	17,917	20,099	223,303	223,828	216,429	7,510	8,000	90,950	88,822	86,8
Montana	944	952	10,687	10,747	10,756	548	581	6,499	6,370	6,1
Idaho	1,272	1,378	15,998	15,448	14,521	602	649	7,127	7,028	6,9
Colorado	488 4,113	578 3,835	6,204 50,095	6,355 48,353	6,351 47,419	267	259	2,872	2,960	2,9
New Mexico	2,678	2,164	25,981	26,392	26,456	1,681 969	1,761 1,002	20,419 10,386	19,478 9,993	19,5 9,7
Arizona	5,293	6,041	62,285	63,482	62,327	2,331	2,315	26,876	26,275	25,7
Utah	2,244	2,948	32,228	33,533	32,575	635	698	8,384	8,527	8,1
Nevada	885	2,203	19,825	19,518	16,024	477	735	8,387	8,191	7,6
Pacific	65,096	65,638	693,347	706,239	649,360	23,132	19,867	268,243	263,254	261,1
Washington	7,068	5,427	70,468	73,304	68,216	3,203	3,037	34,173	33,970	33,5
Oregon	3,131	3,299	39,068	40,589	37,863	2,073	2,136	22,785	23,447	23,6
California ³	52,468	54,152	555,450	563,001	514,880	17,072	13,973	203,144	197,640	196,3
Alaska	916	1,026	10,184	10,553	10,569	190	180	1,984	2,005	1,8
Hawaii	1,513	1,734	18,177	18,792	17,832	594	541	6,157	6,192	5,7

Data for all years are provisional estimates by State of residence rather than by State of occurrence and, therefore, figures for 1989 and 1990 differ from those published previously.

¹ Excludes figures for State(s) shown below as not available, 2 Beginning with data for February 1991, figures include adjustments for varying length of reporting period, see Technical notes, 3 Figures for all years include adjustments for varying length of reporting period, see Technical notes.

Table 3. Provisional number of marriages and divorces: each division and State, November 1990 and 1991, and cumulative figures, 1989-91

[By State of occurrence. Number of events reported; see Technical notes. Divorces include reported annulments]

			Marriages		<u> </u>			Divorces		
	Nove	mber	Jan	uary-Novem	ber	Nove	ember	Ja	nuary-Noven	nber
Area	1991	1990	1991	1990	1989	1991	1990	1991	1990	1989
New England	¹ 5,820	8,304	¹ 60,068	104,326	107,370	12,337	3,758	¹ 2,443	4,604	4,115
Maine		887		10,967	11,574		529		327	396
New Hampshire	730	937	9,138	9,914	10,408	349	450	445	399	736
Vermont	576	525	5,710	5,777	5,736	360	325	236	396	400
Massachusetts	3,936 578	3,673 535	38,103 7,117	43,692 7,676	46,733 7,756	1,380 248	1,683 251	1,435 327	2,067 376	1,158 335
Connecticut		1,747	7,117	26,300	25,163		520		1,039	1,090
Middle Atlantic	¹ 11,570	26,032	¹ 125,332	287,243	283,437	8,389	8,347	21,511	24,952	23,420
New York ² ,		15,344		153,410	150,516	4,743	4,579	6,671	9,931	8,854
New Jersey	4,543	4,737	51,852	53,907	56,018	1,096	1,666	1,917	2,640	2,652
Pennsylvania	7,027	5,951	73,480	79,926	76,903	2,550	2,102	12,923	12,381	11,914
East North Central	¹ 10,783	¹ 21,333 10,056	¹ 151,877	¹ 250,138 88,881	330,702 91,536	¹ 4,297	¹ 9,198 5,040	¹ 52,880	¹ 100,102 46,869	1137,968 44,486
Indiana	4,067	3,649	47,027	50,082	50,463		3,040		40,603	44,400
Illinois			,02.		77,745					41,230
Michigan	4,855	5,921	68,975	72,192	72,512	2,944	2,709	36,079	36,958	36,281
Wisconsin	1,861	1,707	35,875	38,983	38,446	1,353	1,449	16,801	16,275	15,971
West North Central	10,179	11,389	139,387	145,194	145,554	5,379	6,402	71,653	70,675	68,778
Minnesota	1,777	2,127	30,924	31,905	32,620	1,103	1,219	13,978	13,891	14,191
lowa	2,048	1,902	22,253	23,274	22,607	948	963	11,159	10,166	9,227
Missouri	3,188	3,982	42,560	45,309	47,590	2,231	1,661	24,103	23,758	24,406
North Dakota	253	333	4,363	4,462	4,559	168	172	1,993	2,142	2,059
South Dakota	355	502	6,901	7,228	6,698	230	213	2,509	2,429	2,408
Nebraska Kansas	770 1,788	846 1,697	11,770 20,616	11,610 21,406	11,886 19,594	535 164	595 1,579	5,883 12,028	5,978 12,311	5,801 10,686
South Atlantic	33,464	33,607	410,973	419,983	407,878	17,209	17,129	20,421	19,766	19,201
Delaware	453	432	5,016	5,236	5,571	218	304	266	231	350
Maryland	3,156	3,899	40,994	42,629	44,404	1,143	1,047	1,325	1,360	1,238
District of Columbia	420	308	4,385	4,405	4,505	228	242	204	229	189
Virginia	5,025	5,386	63,109	65,549	63,535	2,208	2,226	2,230	2.010	1,990
West Virginia	735	1,155	11,443	12,301	12,139	847	806	3,455	3,054	3,184
North Carolina	3,656	3,530	45,124	47,610	46,669	2,513	2,703	2,208	2,475	2,242
South Carolina	4,558	4,179	48,978	51,006	48,941	1,133	1,143	835	964	951
Georgia	4,907 10,554	3,810 10,908	66,640 125,284	61,520 129,727	55,581 126,533	2,912 6,007	1,923 6,735	3,603 6,295	3,508 5,935	2,396 6,661
East South Central	12,861	14,559	166,486	169,181	167,093	7,574	6,905	86,224	86,713	83,503
Kentucky	2,766	3,931	43,774	47,148	47,361	2,012	1,727	19,945	20,173	19,688
Tennessee	5,378	5,702	63,103	60,109	58,609	2,701	2,676	29,829	29,660	28,669
Alabama	2,999	2,954	38,523	39,852	39,135	1,802	1,983	24,515	23,703	23,260
Mississippi	1,718	1,972	21,086	22,072	21,988	1,059	519	11,935	13,177	11,886
West South Central	¹ 16,355	24,745	¹ 235,109	266,531	256,129	¹ 11,667	¹ 10,986	¹ 140,093	¹ 125,370	¹ 123,294
Arkansas	2,467	3,136	34,860	32,881	31,670	1,360	1,617	17,173	15,739	15,096
Louisiana	0.100	4,054	00.500	36,703	34,681		4 004	04 700		04.077
Oklahoma	2,168 11,720	2,613 14,942	29,586 170,663	30,174 166,773	30,018 159,760	1,756 8,551	1,921 7,448	21,733 101,187	23,253 86,378	21,377 86,821
Mountain	16,546	19.348	187,603	233,264	223,271	14,638	6,822	¹ 50,891	80,263	77,185
Montana	323	397	6,675	6,496	6,323	385	319	4,005	3,782	3,789
ldaho	1,290	856	13,411	13,767	11,752	543	473	5,933	6,091	5,566
Wyoming	214	274	4,368	4,407	4,172	233	248	2,965	2,834	2,787
Colorado		2,071		29,662	29,667		1,492		17,057	17,137
New Mexico 4,5	868	961	11,994	12,037	11,601	615	659	7,727	7,137	7,070
Arizona ²	2,697	3,331	33,616	34,100	33,318	2,179	1,915	22,605	23,167	21,272
Utah	1,154	1,564 9,894	17,539	17,674 115,121	17,142 109,296	683	608 1,108	7,656	8,046 12,149	7,412 12,152
	¹ 6,232	23,891	190,904			¹ 4,217				
Pacific	3,092	2,466	46,982	305,938 45,388	288,930 39,788	2,340	17,108 1,940	¹ 48,959 26,861	163,360 26.066	153,449 24,586
Oregon	1,385	2,400	21,976	23,211	21,504	1,252	1,772	14,388	14,742	13,850
California	1,000	17,245	21,570	215,250	205,825	1,202	12,755	14,000	115,148	106,957
Alaska	417	416	5,577	5,318	5,253	135	185	3,005	2,691	3,002
Hawaii ,	1,338	1,510	16,369	16,771	16,560	490	456	4,705	4,713	5,054

Data are provisional estimates by State of occurrence rather than by State of residence and should be interpreted accordingly.

NOTE: Figures include all revisions received from the States. Cumulative figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published.

¹Excludes figures for State(s) shown below as not available.

²Figures for marriages are marriage licenses issued for some counties.

³Beginning with data for February 1991, figures include adjustments for varying length of reporting period, see Technical notes.

⁴Figures for marriages are marriage licenses issued.

⁵Figures for diverses polyto extensions assume counties.

⁵g gures for divorces include estimates for some counties.

Table 4. Provisional number of deaths under 1 year and infant mortality rates: each division and State, 12 months ending with November 1990 and 1991

[Data are estimates by State of residence; see Technical notes. Infant mortality rates are deaths under 1 year per 1,000 live births in specified area]

		12 months endir	g with November	
	199	71	199	0
Area	Number	Rate	Number	Rate
New England	1978	¹ 5.1	1,503	7.3
Maine	102	6.2	110	6.3
New Hampshire	99	6.1	124	7.1
Vermont	46	5.8	56	6.8
Massachusetts	634	7.2	692	7.2
Rhode Island	97	6.6	108	7.2
	_		413	8.1
Middle Atlantic	¹ 2,591	¹ 4.5	5,689	9.5
New York	1,022	8.8	2,887	9.6
New Jersey	1,569	9.3	1,119 1,683	9.1 9.8
			,	
East North Central	¹ 4,401	¹6.6	6,859	10.1
Indiana	1,507 769	9.5 9.1	1,580 830	9.6 9.7
Illinois.	***	J.1	2,153	11.0
Michigan	1,549	10.0	1,665	10.5
Wisconsin	576	8.0	631	8.7
West North Central	2,274	8.7	2,205	8.1
Minnesota	488	7.3	516	7.5
lowa	281	7.7	346	9.1
Missouri	806	10.4	670	8.3
North Dakota	82	9.0	68	7.1
South Dakota	93	8.5	108	9.8
Nebraska	183	7.6	182	7.6
Kansas	341	9.2	315	7.8
South Atlantic	¹ 6,317	19.2	7,367	10.5
Delaware	145	13.1	110	9.7
Maryland		•••	739	9.1
District of Columbia	166	16.3	207	19.0
Virginia	953	9.8	1,036	10.3
West Virginia	204	9.1	210	9.3
North Carolina	1,138	11.1	1,158	11.1
South Carolina	589 1,331	10.3 12.1	712	12.1
Florida	1,791	9.3	1,273 1,922	11.5 9.5
	•		·	
East South Central	2,375	10.1	2,406	10.2
Kentucky	465	8.4	484	8.6
Tennessee	721 690	10.0	746	10.5
Mississippi	499	10.7 11.5	640 536	9.8 12.2
Nest South Central	4,105	8.5	4,129	8.6
Arkansas	369	10.6	354	9.9
Louisiana	. 744	10.1	752	10.2
Texas ²	470 2,522	9,9 7 a	460	9.7
	,	7.8	2,563	7.9
Mountain	1,937	8.0	2,079	8.5
Montana	91	7.8	105	9.0
Idaho	153	8.9	148	8.9
Wyoming	49 456	7.2	60	8.6
New Mexico	456 242	8.3	424	7.9
Arizona	571	8.6 8.5	247 636	8.9
Utah	214	6.1	274	9.2 7.6
Nevada	161	7.5	185	7.6 8.5
Pacific				
Washington	5,838 562	7.7 7.5	6,058 611	7.9
Oregon	317	7.5 7.4	611 335	7.7 7.4
California ³	4,735	7.4 7.8	4,843	7.4 7.9
	.,		7,070	
Alaska	93	8.2	121	10.4

Data for all years are provisional estimates by State of residence rather than by State of occurrence and, therefore, differ from those published previously.

¹Excludes figures for State shown below as not available.

²Beginning with data for February 1991, figures include adjustments for varying length of reporting period, see Technical notes.

³Figures for all years include adjustments for varying length of reporting period, see Technical notes.

NOTE: Figures include all revisions received from the States. Figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published.

Table 5. Provisional number of deaths and death rates, by age, race, and sex, and age-adjusted death rates by race and sex: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population in specified group. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes]

		Oc	tober			Januar	y-October		12	months end	ding with Oc	tober
		1991	1	990	15	991	15	990	1:	991	1.	990
Age, race, and sex	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All races, both sexes 1												
All ages	180,000	835.6	178,000	831.4	1,797,000	852.5	1,808,000	866.4	2,153,000	851.3	2,174,000	868.3
Under 1 year					30,600	² 897.3	31,900	² 944.2	36,800	² 905.9	38,380	_
1–4 years	4,240	89.2	4,230	90.4	6,290	49.5	5,710	45.6	7,260	47.6	6,750	45.1
5-14 years J	ı 3,190	106 1	0.740	00.4	7,230	23.9	7,190	24.2	8,600	23.7	8,620	24.2
25–34 years	5,130		2,740 5,050	90.1 136.2	31,390 50,050	106.3 138.5	31,190 51,370	104.0 141.0	37,090 59,580	104.6 137.2	37,260 61,860	103.5 141.4
35–44 years	7,890	235.0	7,110	218.9	72,750	223.1	69,710	222.0	87,000	222.5	83,650	222.2
45-54 years	10,280	456.6	10,150	465.5	99,150	456.6	99,120	467.7	118,230	454.7	119,460	470.0
55–64 years	20,490 39,320	1,132.5 2,476.0	20,390 40,200	1,121.9 2,558.4	206,240 399,370	1,160.6 2,574.9	210,340 403,650	1,177.5 2,633.1	247,610 476,600	1,160.5 2,560.4	253,280 483,690	1,181.0 2,629.2
75-84 years	49,210	5,649.4	49,560	5,813.2	500,930	5,916.9	506,490	6,112.0	601,630	5,922.7	609,070	6,127.5
85 years and over	40,640	14,317.9	38,140	14,055.3	392,530	14,365.8	389,730	14,889.8	470,390	14,354.3	470,490	14,998.1
Not stated	80	496.4	100	496.8	760	507.7	1,280	518.4	940		1,500	
	•••	450.4	•••	430.0	•••	307.7	• • • •	510.4	•••	506.2	•••	519.4
All races, male ¹ All ages	94,370	895.7	91,820	881.1	931,330	905.9	938,640	922.7	1 114 000	000 7	1,127,270	000 5
Under 1 year	54,570	055.7	31,020	001.1	17,630	² 1,011.0		⁹ 22.7	1,114,290	903.7		923.5
1–4 years	2,560	105.2	2,510	104.7	3,340	51.2	18,190 3,180	49.8	21,080 3,920	² 1,014.9 50.2	21,720 3,720	21,056.9 48.5
5-14 years J			·		4,480	28.9	4,520	29.7	5,250	28.3	5,370	29.4
15–24 years	2,370	155.7	2,080	135.2	23,790	159.0	23,610	155.7	28,090	156.7	28,120	154.3
25–34 years	3,750 5,690	203.7 342.2	3,540 4,730	190.7 294.5	36,690 50,220	202.8 311.4	37,770 47,700	207.0 307.3	43,720 59,930	201.3 309.8	45,430 56,890	207.4 305.8
45–54 years	6,210	566.7	6,370	600.6	62,570	592.1	62,800	609.3	74,370	587.9	75,540	610.9
55-64 years	12,730	1,483.4	12,230	1,421.2	126,980	1,507.5	127,970	1,514.2	151,810	1,501.1	154,190	1,519.7
65–74 years	22,890 24,400	3,223.0 7,312.0	22,900 24,710	3,264.3 7,614.2	228,930 246,410	3,303.4 7,618.4	232,190 251,310	3,395.4 7,983.9	273,240	3,285.3	279,080	3,401.3
85 years and over	13,730	17,308.3	12,700	16,801.4	129,860	17,030.8	128,570	17,617.6	296,670 155,640	7,648.1 17,009.8	301,020 155,220	7,976.2 17,759.7
Not stated	40		50		440		840		560	• • • •	970	
Age-adjusted rate	•••	648.6	• • • •	640.5	• • • •	658.6	• • •	673.8	• • •	656.2	• • •	674.5
All races, female 1	86,100	778.6	95 960	784.0	065 000	001.0	000 000	040.0	4 007 440			
All ages	60,100	770.0	85,860	784.2	865,920	801.8	869,090	812.9	1,037,410	800.4	1,046,820	815.9
Under 1 year	1,680	72.4	1,720	75.3	12,940 2,950	² 778.5 47.5	13,770	² 834.9 41.5	15,680	² 791.5	16,710	² 852.6
5–14 years J	1,000	72.7	1,720	75.0	2,750	18.7	2,530 2,670	18.4	3,340 3,350	44.9 18.9	3,040 3,260	41.6 18.8
1524 years	820	55.2	660	43.9	7,600	52.0	7,580	51.1	9,000	51.3	9,140	51.4
25–34 years	1,390	75.8	1,500	81.0	13,370	74.0	13,600	74.7	15,850	73.1	16,430	75.2
35–44 years	2,200 4,060	129.8 351.3	2,380 3,780	145.0 337,6	22,530 36,580	136.9 328.1	22,000 36,320	138.5 333.6	27,060	137.0	26,760	140.6
5564 years	7,760	815.8	8,170	853.7	79,270	848.1	82,380	875.2	43,870 95,800	328.6 853.5	43,920 99,090	336.4 876.7
65–74 years	16,430	1,871.4	17,290	1,987.8	170,440	1,986.9	171,460	2,019.2	203,360	1,974.8	204,610	2,007.6
75–84 years	24,810	4,617.0	24,860	4,708.2	254,520	4,865.1	255,190	4,966.3	304,960	4,856.8	308,050	4,996.8
Not stated	26,910 40	13,157.9	25,440 50	13,000.7	262,670 310	13,333.6	261,160 440	13,834.8	314,750 380	13,325.6	315,270 540	13,931.5
Age-adjusted rate		370.2		379.5		382.8		390.9		382.3		392.4
White												
	155,830	862.1	154,250	860.2	1,551,980	878.7	1,568,470	895.0	1,861,680	878.4	1,885,260	896.4
Under 1 year					19,890	² 738.7	21,820	² 811.8	24,340	² 759.0	26,130	² 817.8
1–4 years }-	2,690	71.1	3,070	82.1	4,310	42.7	4,110	41.0	5,030	41.4	4,890	40.8
5–14 years J 15–24 years	2,330	96.0	2,150	87.3	5,290 22,770	21.9 95.3	5,410 23,250	22.7 95.6	6,410 26,880	22.1 · 93.8	6,490 27,780	22.8
25–34 years	3,660	119.8	3,660	118.4	35,870	119.2	37,290	122.6	42,530	117.7	27,780 44,670	95.1 122.3
35-44 years	5,740	201.4	5,260	190.2	53,230	192.1	51,360	191.9	64,080	192.7	61,900	192.9
15-54 years	7,840	404.9	7,990	426.0	77,560	415.4	78,260	429.0	92,760	414.9	94,210	430.5
55–64 years	17,050 34,360	1,086.1 2,437.3	16,860 35,350	1,065.5 2,528.0	170,580 347,530	1,104.9 2,521.9	174,910 353,630	1,123.1 2,589.9	205,630 415,300	1,109.1 2,510.4	210,420 423,470	1,125.3
75–84 years	44,490	5,655.7	44,610	5,786.6	452,340	5,913.3	457,650	6,105.3	543,570	5,922.5	423,470 549,980	2,584.0 6,116.3
35 years and over	37,580	14,632.1	35,220	14,324.2	361,950	14,633.7	360,040	15,171.8	434,370	14,645.0	434,380	15,273.6
Not stated	70	• • •	80	• • •	650	• • •	750	• • •	780		930	• • •
Age-adjusted rate	• • •	472.2		477.4		483.8	• • •	496.7		483.6		497.4

See footnotes at end of table.

Table 5. Provisional number of deaths and death rates, by age, race, and sex, and age-adjusted death rates by race and sex: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991—Con.

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population in specified group. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes]

		Oct	ober			January	-October		12	months end	ing with Oc	tober
	15	991	1:	990	1.	991	1:	990	1.	991	1.	990
Age, race, and sex	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Flate
White male												
All ages	80,580	910.2	79,070	900.8	796,580	921.2	807,800	941.8	954,890	920.5	969,700	942.
Under 1 year					11,550	² 837.1	12,560	2909.0	14,050	² 854.1	14,970	² 913.4
1–4 years	1,670	86.0	1,840	95.9	2,360	45.5	2,270	44.3	2,810	45.1	2,690	43.8
5–14 years	4 700		4 000		3,290	26.6	3,360	27.5	3,940	26.5	4,020	27.
15–24 years	1,730 2,790	140.4 180.7	1,620 2,640	129.7	17,110	141.2	17,450	141.6	20,130	138.5	20,780	140.
25–34 years	4,190	293.5	3,550	169.0 256.6	26,590 37,170	174.9 268.0	27,820 35,560	181.1 265.5	31,630 44,510	173.3 267.5	33,370 42,580	180.4 265.4
45–54 years	4,840	508.0	5,050	547.6	49,290	536.8	49,870	556.1	58,500	532.1	59,900	556.
55–64 years	10,630	1,417.1	10,310	1,366.4	105,960	1,437.4	107,960	1,454.8	127,430	1,439.6	129,920	1,458.
65–74 years	20,070	3,171.5	20,170	3,218.8	200,720	3,247.4	205,150	3,355.5	239,640	3,230.1	246,260	3,356.9
75-84 years	22,160	7,356.0	22,250	7,589.1	223,240	7,644.0	227,580	8,003.3	269,020	7,679.7	272,440	7,989.4
85 years and over Not stated	12,450 30	17,576.6	11,610 40	17,173.2	118,950 360	17,463.6	117,720	18,036.9	142,790	17,477.4	142,170	18,180.
Age-adjusted rate		618.3		616.6		628.2	500	646.8	430	627.0	600	647
	•••	010.5	•••	010.0	•••	020.2	• • •	040.0		627.0		647.
White female All ages	75,250	816.0	75,180	821.3	755 200	837.9	760 670	9E0 4	906 700	000.0	215 550	050
Under 1 year	, 5,230	0.0.0	13,100	021.3	755,390 8,340	2636.6	760,670 9,270	850 <i>.</i> 1 ² 709.5	906,790 10,280	838.0 ² 658.1	915,550 11,160	852.5 ² 717.2
1-4 years	1,020	55.3	1,230	67.5	1,950	39.5	1,840	37.6	2,230	37.7	2,200	37.6
5-14 years					2,000	17.1	2,050	17.7	2,470	17.5	2,470	17.8
15–24 years J	600	50.2	530	43.7	5,670	48.2	5,800	48.3	6,750	47.8	7,000	48.7
25–34 years	870	57.6	1,020	66.7	9,280	62.2	9,470	62.8	10,890	60.9	11,300	62.5
35-44 years	1,550	109.0	1,710	123.7	16,070	116.2	15,790	117.9	19,570	117.8	19,320	120.4
45–54 years	3,000 6,410	305.0 781.9	2,950 6,550	309.4 791.2	28,270 64,620	297.9 800.9	28,390 66,950	306.0 821.1	34,260	301.6	34,310	308.4
65–74 years	14,290	1,839.2	15,180	1,967.1	146,810	1,931.6	148,470	1,968.7	78,200 175,670	807.1 1,925.4	80,500 177,210	822.2 1,957.7
75–84 years	22,330	4,600.5	22,360	4,680.4	229,100	4,845.2	230,070	4,945.4	274,550	4,837.9	277,540	4,972.1
85 years and over	25,130	13,510.7	23,610	13,243.9	243,010	13,557.8	242,320	14,087.1	291,580	13,568.2	292,210	14,171.2
Not stated	40		40		280	•••	240	•••	350	• • •	320	,
Age-adjusted rate	• • •	350.8	• • •	363.6	•••	364.6	• • •	373.6	• • •	365.3		374.7
Black												
All ages	21,660	8.008	21,080	792.5	219,070	832.0	214,920	829.6	259,840	823.0	259,700	835,6
Under 1 year	4 440	400.0			9,760	² 1,745.7	9,340	² 1,720.6	11,400	² 1,709.1	11,330	² 1,756.6
1-4 years	1,410	188.0	1,040	141.8	1,760	87.9	1,370	70.9	1,960	81.6	1,600	69.0
5–14 years		170.8	530	116.9	1,640 7,670	34.5 173.3	1,520 7,110	32.8 159.1	1,850 9,060	32.6 171.1	1,810 8,460	32.5 157.8
25-34 years	1,300	272.3	1,220	255.8	12,730	272.2	12,840	275.0	15,320	273.2	15,640	279.0
35-44 years	1,960	518.8	1,660	461.3	17,740	486.8	16,670	481.5	20,870	478.2	19,830	477.8
45-54 years	2,160	920.8	1,960	856.3	19,470	855.9	18,750	842.1	23,030	845.8	22,800	853.6
55–64 years	3,190	1,719.0	3,200	1,737.9	32,150	1,771.9	32,260	1,791.8	38,070	1,747.9	38,840	1,797.3
65–74 years	4,120 3,980	2,932.9 6,023.3	4,370 4,450	3,176.1 6,885.0	46,200 42,950	3,383.2 6,692.6	44,790 43,510	3,348.9 6,917.3	54,840 51,480	3,348.0 6,685.7	54,070 52,710	3,370.9
85 years and over	2,760	12,498.8	2,630	12,436.2	26,900	12,624.6	26,390	12,954.3	31,810	12,474.5	52,710 32,180	6,990.7 13,134.7
Not stated	10	•••	20	• • •	100		360		140		410	10,10-111
Age-adjusted rate	• • •	714.7	• • •	704.3	• • •	739.4	• • •	737.9		731.4		742.8
Black male												
All ages	12,030	936.4	11,450	906.8	119,360	955.0	116,870	950.6	141,710	946.1	40,740	954.2
Under 1 year	900	000.0	500	1000	5,580	² 1,964.5	5,190	² 1,887.1	6,440	² 1,905.3	6,180	² 1,889.9
1–4 years	800	209.6	580	155.5	890	85.4	760	77.4	990	80.9	850	72.0
15–24 years	- 570	255.3	400	178.2	1,040 5,980	42.8 273.6	990 5,570	42.0 251.3	1,150 7,110	39.8 271.8	1,150 6,610	40.7 249.2
25–34 years	880	389.8	780	346.0	8,990	406.7	9,090	412.1	10,810	408.7	10,990	415.0
35–44 years	1,340	774.5	1,070	651.1	11,870	712.7	11,020	696.0	14,060	705.1	13,030	688.0
45–54 years	1,230	1,175.5	1,230	1,203.8	12,020	1,185.7	11,800	1,186.5	14,370	1,182.7	14,330	1,201.2
55–64 years	1,980	2,350.1	1,780	2,129.9	19,040	2,312.0	18,210	2,229.7	22,220	2,249.0	21,960	2,238.5
65–74 years	2,250 1,820	3,700.0 7,338.7	2,450 2,200	4,126.9 9,088.8	24,830	4,205.3 8 260 0	24,010	4,171.5	29,750	4,202.0	29,250	4,239.1
85 years and over	1,150	17,584.8	940	14,757.0	19,900 9,140	8,260.0 14,369.0	20,770 9,230	8,824.3 15,051.2	23,860 10,850	8,256.1	25,000	8,865.2
Not stated	10		10	14,737.0	80	14,305.0	230	15,051.2	120	14,276.3	11,130 260	15,040.5
Age-adjusted rate	•••	943.5		923.1		969.5						070 6
	•••	J-0.J	•••	323.1	• • •	503.5	•••	965.7	• • •	960,8		970.5

See footnotes at end of table.

Table 5. Provisional number of deaths and death rates, by age, race, and sex, and age-adjusted death rates by race and sex: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991—Con.

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population in specified group. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes]

		Oct	ober			January	-October		12 1	months end	ing with Oc	tober
	19	991	15	990	15	991	15	990	15	991	15	990
Age, race, and sex	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Black female										*		
All ages	9,620	677.5	9,630	689.3	99,700	720.9	98,050	720.3	118,130	711.9	118,960	728.5
Under 1 year					4,180	² 1,520.2	4,150	² 1,549.6	4,960	² 1,507.6	5,160	² 1,622.6
1–4 years	610	165.6	450	124.9	870	88.5	610	64.2	980	83.1	750	65.8
5–14 years J					600	25.8	530	23.3	700	25.1	660	24.1
15-24 years	200	87.9	130	56.8	1,690	75.2	1,540	68.3	1,950	72.8	1,850	68.3
25-34 years	420	166.9	440	174.9	3,740	151.9	3,750	152.2	4,510	152.2	4,660	157.5
35–44 years	620	302.8	580	296.7	5,870	296.9	5,650	299.7	6,810	287.3	6,800	301.4
45-54 years	930	715.7	720	568,2	7,450	591.9	6,950	562.6	8,660	574.3	8,480	573.7
55-64 years	1,210	1,194.2	1,420	1,412.1	13,110	1,323.1	14,040	1,429.0	15,860	1,332.8	16,880	1.430.5
65-74 years	1,870	2,347.3	1,930	2,467.3	21,370	2,756.2	20,780	2.728.4	25,090	2,697.8	24,820	2.715.5
75–84 years	2,160	5,233.0	2,260	5,590.3	23,050	5,741.8	22,740	5.780.9	27,620	5,742.2	27,710	5,870.8
85 years and over	1,610	10,358.7	1,690	11,435.8	17,750	11,876.2	17,160	12,037.4	20,960	11,709.5	21,060	12,315.8
Not stated	-		10		20		130	•••	20		150	
Age-adjusted rate		533.4		533.5		554.8		557.2		547.8		562.8

¹ Includes races other than white and black.
2 Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see table 8 for infant mortality rates.

NOTE: Figures include all revisions received from the States. Cumulative and 12-month figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published. Data include adjustments for Maryland and Oregon, which are not included in the sample for October 1991.

Table 6. Provisional number of deaths and death rates for 72 selected causes and Human immunodeficiency virus infection: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes. For explanation of the asterisk preceding cause-of-death codes see Technical notes]

		Octo	ber	7	J	anuary-	-October		12 mont	hs endi	ing with Oc	ober
	199)1	199	0	1991	,	1990)	199	1	1990	,
Cause of death (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	180,000	835.6	178,000	831.4	1,797,000	852.5	1,808,000	866.4	2,153,000	851.3	2,174,000	868.3
Shigellosis and amebiasis .004,006 Certain other intestinal infections .007–009 Tuberculosis .010–018 Tuberculosis of respiratory system .010–012 Other tuberculosis .013–018 Whooping cough .033 Streptococcal sore throat, scarlatina, and erysipelas .034–035	40 140 120 20 -	* 0.6 0.6 * *	30 160 120 40	0.7 0.6 *	20 540 1,380 1,040 340 -	0.2 0.7 0.5 0.2	360 1,470 1,130 340 20 10	0.2 0.7 0.5 0.2 *	20 610 1,580 1,190 390 –	0.2 0.6 0.5 0.2	440 1,750 1,350 400 20	0.2 0.7 0.5 0.2
Meningococcal infection .036 Septicemia .038 Acute poliomyelitis .045 Measles .055 Viral hepatitis .070 Syphilis .090-097 All other infectious and parasitic diseases ¹ .001-003,005,020 032,037,039-041,*042-*044,046-054,056-066,071-088,098-139	30 1,730 - 130 20 3,570	8.0 * * 0.6 *	10 1,660 - 160 10 2,670	7.8 * * 0.7 *	240 15,970 10 20 1,610 120 29,210	0.1 7.6 * 0.8 0.0	110 16,600 - 70 1,430 80 26,120	0.0 8.0 * * 0.7 *	310 19,090 10 20 1,830 150 34,290	0.1 7.5 * 0.7 0.1 13.6	150 20,150 - 80 1,790 120 30,980	0.1 8.0 * * 0.7 0.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	43,920 650 9,980 12,700 4,050 5,200 1,620 5,540 1,610 2,570	3.0 46.2 58.8 18.7	44,210 660 10,660 12,270 3,830 5,440 1,820 5,400 1,700 2,440	206.9 3.1 49.9 57.4 17.9 25.5 8.5 25.3 7.9 11.4	429,690 6,300 99,820 122,870 37,630 49,650 17,480 53,800 16,230 25,920	3.0 47.3 58.3 17.8 23.6 8.3	424,400 6,690 100,840 120,140 37,440 48,880 16,980 52,710 15,750 24,960	3.2 48.3 57.6 17.9 23.4 8.1 25.3 7.5	512,380 7,470 120,200 146,390 45,220 58,740 20,840 63,450 19,130 30,950	202.6 3.0 47.5 57.9 17.9 23.2 8.2 25.1 7.6 12.2	507,610 8,030 120,800 143,320 44,570 58,130 20,500 63,850 18,740 29,680	3.2 48.2 57.2 17.8 23.2 8.2 25.5 7.5
Diabetes mellitus .210–239	600 3,930 230 480 50 75,700 59,530 340 1,900 130 40,300 19,660 330 70	1.1 2.2 * 350.5 275.7 1.6 8.8 0.6	640 3,860 250 300 100 75,050 58,710 490 1,770 150 39,850 19,190 210 50	274.7 2.3 8.3 0.7	6,500 40,990 2,530 3,440 580 754,390 594,000 5,030 18,000 1,690 397,110 193,560 2,550 770	281.8 2.4 8.5 0.8 188,4	6,670 39,180 2,570 3,450 1,000 766,300 604,080 5,180 17,840 408,280 201,970 2,700 650	18.8 1.2 1.6 0.5 367.3 289.5 2.5 8.5 0.7 195.7 96.8 1.3	7,660 49,580 3,030 4,200 906,860 713,820 6,130 21,310 2,050 477,800 233,540 3,170 860	282.2 2.4 8.4 0.8 188.9	7,940 47,210 3,120 4,170 1,150 925,390 728,690 6,110 21,290 1,980 493,860 244,970 3,260 750	1.2 1.7 0.5 369.6 291.0 2.4 8.5 0.8 197.2 97.8 1.3
chronic ischemic heart disease	20,240 1,070 15,790 780 11,870 1,820 1,360 50 8,640	4.9 73.1 3.6 55.0 8.4 6.3	20,400 1,160 15,290 660 12,180 1,620 1,670 60 8,840	95.5 5.4 71.5 3.1 57.0 7.6 7.8 *	200,240 11,210 160,960 7,080 118,590 16,800 14,690 590 86,510	3,4 56.2 8,0 7,0 0.3	202,960 10,350 160,940 6,880 120,620 16,970 15,320 510 87,820	5.0 77.1 3.3 57.8 8.1 7.3 0.2	240,240 13,130 193,400 8,810 142,160 20,210 17,240 730 103,980	5.2 76.5 3.5 56.2 8.0 6.8 0.3	244,880 12,250 193,200 8,380 146,050 20,620 18,770 630 106,020	77.2 3.3 58.3 8.2 7.5 0.3

Atherosclerosis	1,480 2,040	6.9 9.4	1,300 2,200	6.1 10.3	14,230 20,490	6.8 9.7	14,830 19,890	7.1 9.5	17,080 24,990	6.8 9.9	17,980 24,290	7.2 9.7
Acute bronchitis and bronchiolitis	5,540 5,530 10 6,340 210 1,070	25.6 25.6 * 29.4 1.0 4.9 1.1 22.3	40 5,700 5,690 10 5,970 200 910 230 4,620	26.7 26.6 * 27.9 0.9 4.3 1.1 21.6	500 61,990 61,440 560 73,890 3,090 13,370 3,660 53,780	0.2 29.4 29.1 0.3 35.1 1.5 6.3 1.7 25.5	520 66,370 64,520 1,850 75,220 2,600 14,160 3,950 54,510	0.2 31.8 30.9 0.9 36.1 1.2 6.8 1.9 26.1	530 74,320 73,680 640 87,460 3,600 15,710 4,310 63,840	0.2 29.4 29.1 0.3 34.6 1.4 6.2 1.7 25.2	620 79,220 77,170 2,050 89,190 3,240 16,590 4,960 64,400	0.2 31.6 30.8 0.8 35.6 1.3 6.6 2.0 25.7
Ulcer of stomach and duodenum	40	2.1	440 80	2.0	5,130 420	2.4 0.2	4,910 390	2.3 0.2	6,050 460	2.4 0.2	6,070 480	2.4 0.2
mention of hernia	2,080 240 1,960	2.1 9.6 1.1 9.1	480 1,940 320 1,920 50	2.2 9.1 1.5 9.0	4,830 20,510 2,580 18,590 230	2.3 9.7 1.2 8.8 0.1	4,700 21,170 2,490 17,920 300	2.2 10.1 1.2 8.6 0.1	5,710 24,890 3,110 22,110 260	2.3 9.8 1.2 8.7 0.1	5,530 26,030 3,010 21,980 320	2.2 10.4 1.2 8.8 0.1
acute or chronic, and renal sclerosis, unspecified	1,860	* 8.6 *	100 1,770 80	* 8.3 *	1,130 17,230 1,040	0.5 8.2 0.5	1,140 16,480 970	0.5 7.9 0.5	1,380 20,470 1,160	0.5 8.1 0.5	1,430 20,220 1,170	0.6 8.1 0.5
Hyperplasia of prostate	20 30 - 30	* * * 4.3 6.3	20 30 10 20 1,190 1,420	* * * 5.6 6.6	300 230 60 170 9,910 14,130	0.1 0.1 * 0.1 4.7 6.7	260 270 80 190 11,160 14,410	0.1 0.1 * 0.1 5.3 6.9	340 290 60 230 12,040 17,040	0.1 0.1 * 0.1 4.8 6.7	330 320 80 240 13,010 17,420	0.1 0.1 * 0.1 5.2 7.0
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	300 1,070 3,070	1.4 4.9 14.2 66.9	320 1,100 2,710 14,230	1.5 5.1 12.7 66.6	2,920 11,220 28,490 144,760	1.4 5.3 13.5 68.7	2,860 11,550 30,020 142,400	1.4 5.5 14.4 68.2	3,550 13,500 34,310 173,950	1.4 5.3 13.6 68.8	3,520 13,900 37,040 171,600	1.4 5.6 14.8 68.5
Accidents and adverse effects	8,050 4,190 3,860 2,280 2,280 180	37.3 19.4 17.9 10.5 10.5 0.8	7,520 4,100 3,420 2,310 1,970 190	35.2 19.2 16.0 10.8 9.2 0.9	74,890 37,130 37,760 24,410 21,800 1,590	35.5 17.6 17.9 11.6 10.3 0.8	76,760 38,850 37,910 25,550 20,860 1,540	36.8 18.6 18.2 12.2 10.0 0.7	89,590 44,910 44,690 28,510 25,490 1,970	35.4 17.8 17.7 11.3 10.1 0.8	92,200 46,830 45,370 30,180 24,670 1,950	36.8 18.7 18.1 12.1 9.9 0.8
Human immunodeficiency virus infection ²	2,950 elow; see Te	13.7 chnical n	2,110 otes	9.9	24,050	11.4	19,850	9.5	28,260	11.2	23,570	9.4

NOTE: Figures include all revisions received from the States. Cumulative and 12-month figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published. Data include adjustments for Maryland and Oregon, which are not included in the sample for October 1991.

Table 7. Provisional number of deaths and death rates for 16 selected subcategories of Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes]

		Octo	ber		J	anuary-	-October		12 mont	ths end	ing with Od	ctober
	199	91	199	0	199	1	199	0	199	1	199	10
Cause of death (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 1140–208	43,920	203.4	44,210	3.1	429,690	3.0	424,400	3.2	512,380	3.0	507,610	3.2
Malignant neoplasm of esophagus	640	3.0	810	3.8	8,310	3.9	8,210	3.9	9,790	3.9	9,760	3.9
Malignant neoplasm of stomach	1,230	5.7	1,480	6.9	12,050	5.7	12,270	5.9	14,270	5.6	14,740	5.9
Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus	4,850	22.5	4,730	22.1	46,070	21.8	47,540	22.8	55,630	22.0	57,010	22.8
Malignant neoplasm of pancreas	1,960	9,1	2,380	11.1	21,230	10.1	20,250	9.7	25,530	10.1	24,380	9.7
Malignant neoplasms of trachea, bronchus, and lung	12,230	56.6	11,840	55.4	118,540	56.2	115,900	55.5	141,290	55.9	138,130	55.2
Malignant melanoma of skin	610	2.8	530	2.5	5,980	2.8	5,350	2.5	6,850	2.7	6,350	2.5
Malignant neoplasm of cervix uteri	390	1.8	500	2.3	3,930	1.9	4,280	2.0	4,680	1.9	4,990	2.0
Malignant neoplasms of body of uterus and of uterus, part unspecified	510	2.4	590	2.8	4,860	2.3	5,010	2.4	5,720	2.3	5,930	2.4
Malignant neoplasm of ovary	1,210	5.6	1,090	5.1	11,080	5.2	10,330	4.9	12,940	5.1	12,220	4.9
Malignant neoplasm of prostate	2,920	13.5	3,160	14.8	28,200	13.4	27,690	13.3	33,630	13.3	33,140	13.2
Malignant neoplasm of bladder	810	3.7	1,030	4.8	8,580	4.1	8,490	4.1	10,250	4.1	10,200	4.1
Malignant neoplasms of kidney and other and unspecified urinary organs	810	3.7	780	3.6	8,900	4.2	8,490	4.1	10,590	4.2	10,300	4.1
Malignant neoplasms of brain and other and unspecified parts of nervous system	930	4.3	890	4.2	9,340	4.4	9,560	4.6	11,040	4.4	11,460	4.6
Hodgkin's disease	180	0.8	120	0.6	1,410	0.7	1,370	0.6	1,680	0.7	1,650	0.7
Malignant lymphoma other than Hodgkin's disease	1,640	7.6	1,570	7.3	16,790	8.0	15,740	7.5	20,080	7.9	18,810	7.5
Multiple myeloma and other immunoproliferative neoplasms	760	3.5	740	3.5	7,710	3.6	7,850	3.8	9,180	3.6	9,220	3.7

¹Includes figures for subcategories not shown below.

NOTE: Figures include all revisions received from the States, Cumulative and 12-month figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published. Data include adjustments for Maryland and Oregon, which are not included in the sample for October 1991.

Table 8. Provisional number of deaths under 1 year and infant mortality rates, by age and for 10 selected causes: United States, October 1990 and 1991, cumulative figures 1990 and 1991, and 12 months ending with October 1990 and 1991

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 live births. Due to rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates see Technical notes]

		Octo	ober	<u>.</u>		January-	-October		12 mon	ths end	ing with O	ctober
	199	91	199	90	199	91	199	30	199	91	199	00
Age and cause of death (Ninth Revision International Classification of Diseases,1975)	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total, under 1 year		820.0	3,100	859.6	30,600	889.9	31,900	920.3	36,800	893.9	38,400	921.4
Under 28 days	1,870 1,070	522.6 299.0	1,930 1,200	530.0 329.6	19,250 11,320	560.5 329.6	19,960 12,000	575.9 346.2	23,200 13.560	564.2 329.8	23,870 14,560	573.1 349.6
Certain gastrointestinal diseases	10 10	*	20 20	*	270 520	7.9 15.1	170 460	4.9	300 640	7.3 15.6	230 540	5.5 13.0
Congenital anomalies	570 400	159.3 111.8	840 360	230.7 98.9	6,450 3,920	187.8 114.1	7,140 3,230	206.0 93.2	7,820 4,610	190.2 112.1	8,300 3.940	199.3 94.6
Birth trauma	10 70	*	30 100	*	120 660	3.5 19.2	140 700	4.0 20.2	150 740	3.6 18.0	170 830	4.1 19.9
Sudden infant death syndrome	210 670 420	58.7 187.3 117.4	190 710 370	52.2 195.0 101.6	2,090 7,220 3,520	60.8 210.2 102.5	1,960 8,150 4,100	56.5 235.1 118.3	2,600 8,690 4,400	63.2 211.3 107.0	2,470 9,780	59.3 234.8
All other causes	560	156.5	480	131.8	5,810	169.2	5,900	170.2	6,820	165:9	5,060 7,120	121.5 171.0

NOTE: Figures include all revisions received from the States. Cumulative and 12-month figures for the current year reflect revisions received for previous months, and figures for earlier years may differ from those previously published. Data include adjustments for Maryland and Oregon, which are not included in the sample for October 1991.

Technical notes

Nature and sources of data

Data in this report are provisional and include only events occurring within the United States. Mortality data exclude fetal deaths.

Beginning with the January 1991 issue birth, death, and infant death figures for all years shown in tables 2 and 4 for each State are estimates by State of residence. These estimates are derived by applying adjustment ratios to the actual counts of certificates for all events occurring in the State and received in registration offices during a 1-month period regardless of date of the event. The adjustment ratios for each data year represent the observed relationship between final State occurrence and residence figures for the 3 most recent years for which final data were available, expressed as a single ratio for each State. As in previous years, monthly State marriage and divorce figures represent the actual count of all events occurring in the State (State of occurrence) that were received in the registration offices during the 1-month period. Prior to the January 1991 issue, provisional data for all events were by State of occurrence. Delay in the receipt of certificates in a registration office may result in a low State figure for a given month followed by a high figure for the month(s) in which the delayed records are received. Data for previous months and cumulative data include revised figures received from the States.

Figures for births, deaths, and infant deaths for all years for California shown in tables 2 and 4 contain adjustments for varying length of State reporting periods. Beginning with data for February 1991, figures for Texas for all events shown in tables 2-4 are also adjusted for varying length of State reporting periods. Prior to February 1991 data for Texas were reported for monthly periods. The figures for both States are adjusted by the ratio between the number of days in the data month and the number of days in the State reporting period. The adjusted figures for California and Texas shown in tables 2-4 are included in the U.S. totals.

Beginning with data for January 1991, U.S. totals for births, deaths, and infant deaths are based on the State estimates by State of residence (described above) and, therefore, in effect, exclude events to nonresidents of the United States. Events to nonresidents of the United States are included in all marriage and divorce figures for all years and in the U.S. birth, death, and infant death figures for 1990 and previous years. The effect of excluding events to nonresidents from the U.S. totals is small.

Provisional totals for the United States include estimates for State data shown as not available. Provisional totals for births and marriages for the entire United States include adjustments for observed differences between provisional and final monthly figures.

Divorce figures include reported annulments. The monthly national divorce estimate is obtained by multiplying the total for the reporting areas by the ratio observed between the most recent final annual divorce total for the United States and the provisional total for the reporting areas combined.

Random variation — Although the counts in this report are not subject to sampling variability (except the Current Mortality Sample, see below), they may be affected by random variation. When the number of events is small and the probability of such an event is small, considerable caution must be observed in interpreting the data. Such infrequent events may be assumed to follow a Poisson probability distribution. For this distribution a simple approximation may be used to estimate the random variation, as follows:

If N is the number of events in the population and R is the corresponding rate, the chances are 19 in 20 that

1.
$$N-2\sqrt{N}$$
 and $N+2\sqrt{N}$

covers the "true" number of events.

2.
$$R=2\frac{R}{\sqrt{N}}$$
 and $R+2\frac{R}{\sqrt{N}}$

covers the "true" rate.

If the rate R_1 corresponding to N_1 events is compared with the rate R_2 corresponding to N_2 events, the difference between the two rates may be regarded as statistically significant at the 0.05 level if it exceeds

$$2 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

Additional information on random variation in numbers of events, rates, and ratios may be found in the technical appendixes of *Vital Statistics of the United States*, 1988, Volumes I and II.

Rates

Rates are on an annual basis and, except for infant mortality rates, are per 1,000 or 100,000 estimated population residing in the United States. The populations used for computing these rates are furnished by the U.S. Bureau of the Census. The population estimates are based on the 1980 Census of Population and do not reflect the results of the 1990 census enumeration. Monthly rates are based on populations estimated for the specific month. Year-to-date rates are averages of the monthly rates weighted by the number of days in each respective month. Rates for 12-month periods are the sum of events for the period per population estimated at the midpoint of the period.

Infant mortality rates are infant deaths for the specified period (monthly, year-to-date, 12-month period) per 1,000 or 100,000 live births. Births used for computing monthly and year-to-date infant mortality rates are adjusted for monthly variation in the number of births; births used to compute 12-month rates do not contain this adjustment. Births used for computing infant mortality rates are not corrected for observed differences between provisional and final monthly figures as described in section on Nature and sources of data. Because monthly infant mortality rates are based on relatively few events, they are highly variable. Therefore, comparisons between monthly infant

mortality rates should be interpreted cautiously; see section on Random variation.

The age-adjusted rates presented in this report are computed by the direct method, that is, by applying the age-specific death rates for age groups shown in the specific table to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. It is important not to compare age-adjusted death rates with crude rates.

Current Mortality Sample

The Current Mortality Sample (CMS) is a 10-percent systematic sample of death certificates drawn each month after the certificates are counted in the State registration offices. Deaths and death rates by age, race, sex, and cause are based on the sample. Because of the additional time required to select and process the certificates, data based on the CMS are published 1 month after publication of the U.S. and State counts. Complete information concerning the underlying cause of death is sometimes not available when the sample is drawn. As a result, estimates based on sample counts for certain causes are biased. Correction for bias is shown in the annual summary (issue No. 13 in this series) for each year.

Estimated numbers of deaths and death rates based on the sample were proportionately adjusted to be consistent with estimates based on the count of death certificates received in State registration offices.

HIV infection—Beginning with data for 1987, NCHS introduced category numbers *042—*044 for classifying and coding human immunodeficiency virus infection (HIV infection), formerly referred to as human T-cell lymphotropic virus-III/lymphadenopathy-associated virus (HTLV-III/LAV) infection. The asterisk before the category numbers indicates that these codes are not part of the Ninth Revision of the International Classification of Diseases (ICD-9). Deaths classified to these categories are included in All other infectious and parasitic diseases

in the List of 72 Selected Causes of Death as well as shown separately at the bottom of table 6. For 1986 and earlier years these deaths were classified to a number of other causes. Therefore, beginning with 1987, cause-of-death data are not strictly comparable with data for earlier years.

Sampling variability—Because the estimates of deaths and death rates presented in this report (with the exception of total deaths and deaths under 1 year) are based on a sample of death certificates, they are subject to sampling variability. The estimated relative standard error shown in the table 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 first column refers to monthly estimates; the second to annual; cumulative year-to-date totals will be between the two.

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 shown. The chances are about 19 out of 20 that the percent difference is less than twice the percent shown. Figures based on 100 or fewer estimated deaths have relative standard errors of 30 percent or more and are, therefore, considered unreliable. Rates based on 100 or fewer estimated deaths are indicated by an "*".

Relative standard errors for estimated numbers of deaths from the Current Mortality Sample expressed as a percent of the estimate

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	of estimate (as percent)	
Estimated number of deaths	170,000 estimated deaths each month	2,000,000 estimated deaths each year
10	94.9	94.9
20	67.1	67.1
50	42.4	42.4
100	30.0	30.0
200	21.2	21.2
500	13.4	13.4
1,000	9.5	9.5
2,000	6.7	6.7
5,000	4.2	4.2
10,000	2.9	3.0
20,000	2.0	2.1
50,000	1.1	1.3
100,000	0.6	0.9
200,000		0.6
500,000		0.4
1,000,000	• • •	0.2

Unless otherwise specified, comparisons made in the text between death rates based on the CMS were statistically significant at the 0.05 level of significance. Lack of comment in the text about any two rates does not mean that the difference was tested and found not to be significant at this level.

Mortality Surveillance System—The Mortality Surveillance System charts are based entirely on monthly provisional data from the Current Mortality Sample (CMS). Where sample size permits, age-race-sex comparisons are made for the causes of death. Where sample size is too small, only age-sex comparisons are made. A time series regression model of the following form was used:

$$Y(t) = A_0 + A_1 t + A_2 t^2 + C \cos (2\pi t / 12) + S \sin (2\pi t / 12) + \epsilon_t$$

where

Y(t) = monthly death rate at time tt = month number

 A_0 = coefficient, which, together with C determines the Y-intercept

 A_1 = coefficient of t

 A_2 = coefficient of t^2

C, S = coefficients of the harmonic terms

 ε_t = error terms, assumed to be independent and normally distributed with means 0 and constant variances,

and cos $(2\pi t/12)$ and sin $(2\pi t/12)$ are 12-month period harmonic functions,

The coefficients of this model were estimated using provisional monthly death rates from January 1982 through the month that is 12 months prior to the latest month shown in the chart. The graph of the estimated equation and 95-percent prediction intervals is shown from January 1984 through the month that is 12 months prior to the latest month shown in the chart; the graph for the subsequent 12 months is projected (1). Symbols in each chart represent actual monthly death rates based on the CMS. In some cases the data are transformed by the natural logarithm before fitting

the model. For graphical purposes the data are transformed back to rates by the inverse of the natural logarithm. This procedure has the advantage of avoiding negative prediction intervals for the model. The models, parameter estimates, and statistical tests for lack of fit are available upon request for the charts published in the Mortality Surveillance System. Time series

regression models have previously been used to describe trends in mortality data (2–4). A list of cause-of-death topics is presented in the table on the back of this report.

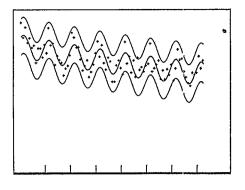
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Mortality Surveillance System chart topics

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MVSR issue	Cause-of-death chart topics	
Vol. 39 No. 12	Motor vehicle accidents, Homicide and legal intervention, and Suicide	
Vol. 40 No. 1	Human immunodeficiency virus infection; Symptoms, signs, and ill-defined conditions; and Septicemia	
Vol. 40 No. 2	Cerebrovascular diseases	
Vol. 40 No. 3	Chronic obstructive pulmonary diseases and allied conditions	
Vol. 40 No. 4	Diabetes mellitus	
Vol. 40 No. 5	Diseases of heart	
Vol. 40 No. 6	Malignant neoplasms including neoplasms of lymphatic and hematopoietic tissues	
Vol. 40 No. 7	Malignant neoplasms of trachea, bronchus, and lung	
Vol. 40 No. 8	Malignant neoplasm of prostate, Malignant neoplasm of breast	
Vol. 40 No. 9	Malignant neoplasms of digestive organs and peritoneum	
Vol. 40 No. 10	Suicide .	
Vol. 40 No. 11	Accidents and adverse effects, Homicide and legal intervention	



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