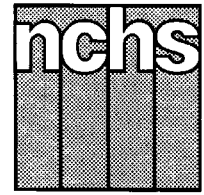


Monthly Vital Statistics Report



Provisional Data From the CENTERS FOR DISEASE CONTROL AND PREVENTION/National Center for Health Statistics

Births, Marriages, Divorces, and Deaths for October 1997

Births

According to provisional reports, an estimated 327,000 births occurred in the United States during October 1997. This was a 6-percent decrease from the provisional number of births reported for October 1996 (348,000). The birth rate, 14.3 live births per 1,000 population, was 8 percent lower than the rate of 15.5 for October 1996. The fertility rate, 64.5 live births per 1,000 women 15–44 years, was 6 percent lower than the comparable rate for October 1996 (68.9). The seasonally adjusted fertility rate (64.7) was 7 percent lower than the comparable rate for October 1996 (69.2).

During the first 10 months of 1997, an estimated 3,233,000 births occurred, a

2-percent decrease from the 3,285,000 reported for the first 10 months of 1996. The birth rate during this period declined 3 percent from 14.9 in 1996 to 14.5 in 1997.

An estimated 3,848,000 live births occurred in the 12-month period ending with October 1997, a 1-percent decline from the 3,890,000 births reported for the same period a year earlier. The birth rate of 14.4 was 2 percent lower than the rate of 14.7 for the preceding 12-month period. The fertility rate for the most recent 12-month period was 64.5, 1 percent lower than the rate for the 12 months ending with October 1996 (65.3). These lower rates continue the generally downward trend observed since early 1991.

Natural increase

As a result of natural increase, the excess of births over deaths, an estimated 134,000 people were added to the population during October 1997 at an annual rate of 5.8 persons per 1,000 population.

For the 12-month period ending with October 1997, 1,545,000 persons were added to the population. This represented a rate of natural increase of 5.8, 3 percent lower than the rate for the preceding 12-month period (6.0). The decline in the rate of natural increase was due to larger decreases in the birth rate than in the death rate.

Provisional Vital Statistics for the United States

[Rates for infant deaths are deaths under 1 year per 1,000 live births; fertility rates are live births per 1,000 women aged 15–44 years; all other rates are per 1,000 total population. Data are subject to monthly reporting variation; see [Technical notes](#)]

Item	October				January–October				12 months ending with October				
	Number		Rate		Number		Rate		Number		Rate		
	1997	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997	1996	1995
Live births	327,000	348,000	14.3	15.5	3,233,000	3,285,000	14.5	14.9	3,848,000	3,890,000	14.4	14.7	14.9
Fertility rate	...	...	64.5	68.9	...	...	65.0	66.2	...	...	64.5	65.3	65.9
Deaths	193,000	188,000	8.5	8.3	1,911,000	1,920,000	8.6	8.7	2,303,000	2,304,000	8.6	8.7	8.8
Infant deaths	2,600	2,500	7.8	7.2	22,700	23,600	7.1	7.3	27,300	28,300	7.1	7.3	7.6
Natural increase	134,000	160,000	5.8	7.2	1,322,000	1,365,000	5.9	6.2	1,545,000	1,586,000	5.8	6.0	6.1
Marriages	235,000	231,000	10.3	10.3	2,056,000	1,989,000	9.4	9.1	2,411,000	2,333,000	9.0	8.8	8.9
Divorces	101,000	99,000	4.4	4.4	966,000	962,000	4.3	4.4	1,154,000	1,148,000	4.3	4.3	4.5
Population base (in millions)	...	...	268.4	265.8	...	...	...	...	...	...	267.2	264.8	262.4

... Category not applicable.

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



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics



Marriages

An estimated 235,000 marriages were performed in October 1997, 4,000 more than were performed in October 1996 (231,000). The marriage rate per 1,000 population for October 1997 was the same as the rate for October a year earlier (10.3).

The number of couples marrying in the first 10 months of 1997 (2,056,000) was 3 percent higher than the number of couples marrying in the January–October period in 1996 (1,989,000). The marriage rate for the 10-month period was 3 percent higher in 1997 (9.4) than for the same period in 1996 (9.1).

Marriages occurring during the 12-month period ending with October 1997 numbered 2,411,000, 3 percent more than for the comparable period a year earlier (2,333,000). The marriage rate for the current period (9.0) was 2 percent higher than the rate for the same period ending with October 1996 (8.8).

Divorces

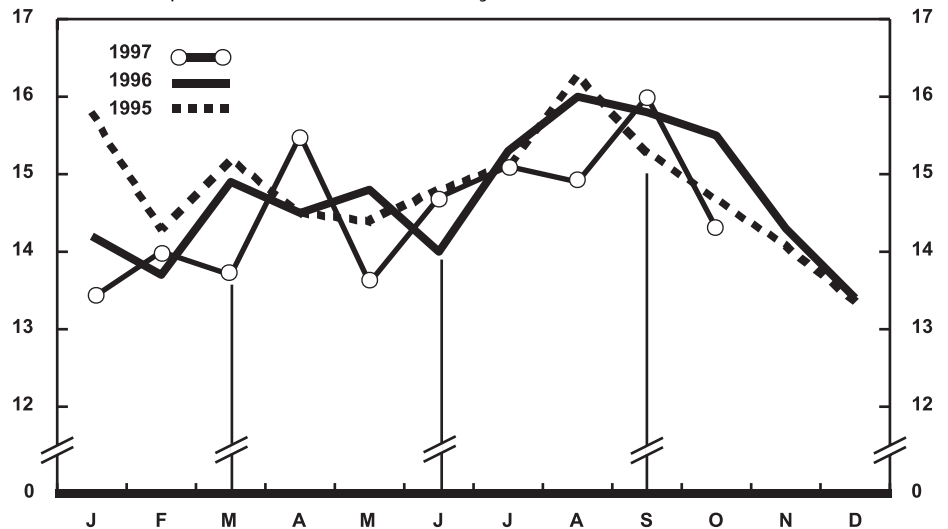
An estimated 101,000 couples divorced in October 1997, 2 percent more than the number divorced in October 1996 (99,000). The divorce rate per 1,000 population for October 1997 was the same as the rate for October a year earlier (4.4).

The estimated number of divorces granted during January–October 1997 was 966,000, a slight increase from the number of divorces for the same period in 1996 (962,000). The divorce rate for the 10-month period was 4.3 in 1997, 2 percent lower than in 1996 (4.4).

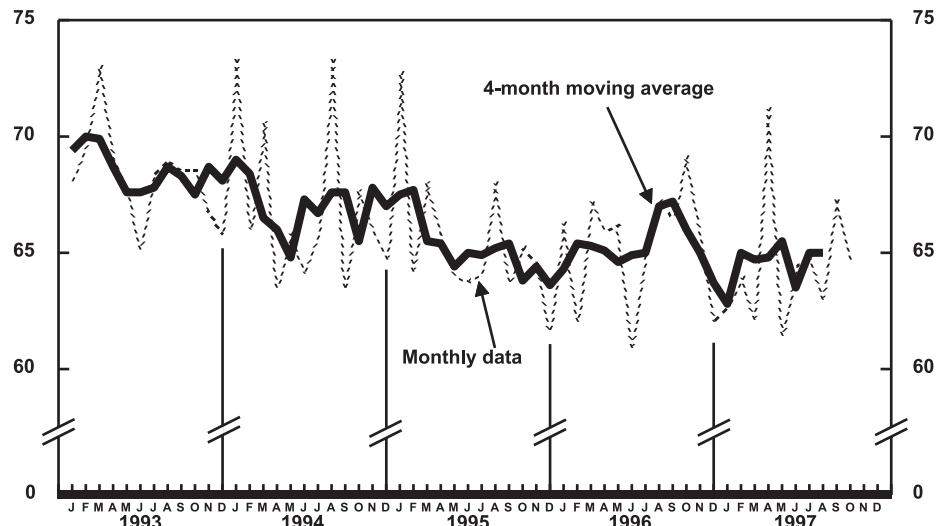
Approximately 1,154,000 couples divorced during the 12-month period ending with October 1997, a 1-percent increase from the number divorced during the same period a year earlier (1,148,000). The divorce rate for the current 12-month period was the same as the rate for the comparable period a year earlier (4.3).

Deaths

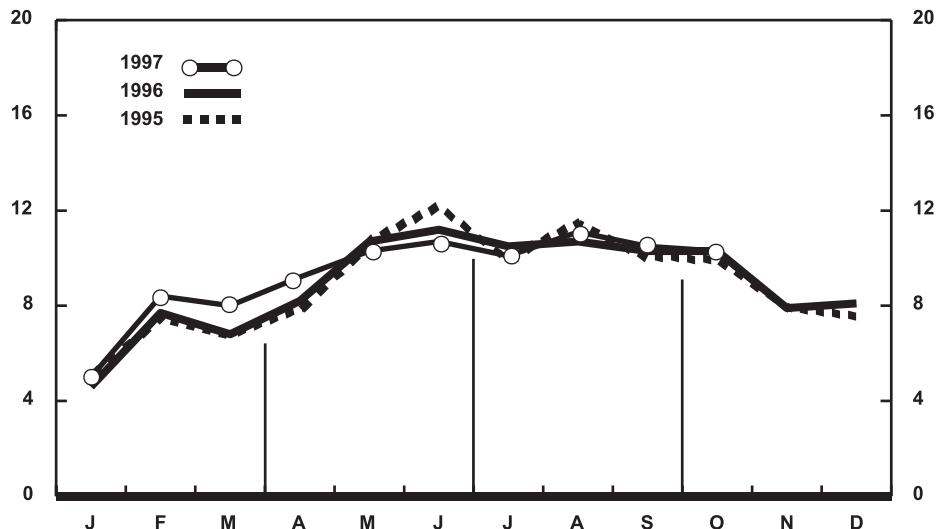
For October 1997 there were an estimated 193,000 deaths in the United States. The death rate was 8.5 deaths per 1,000 population, 2 percent higher than the rate of 8.3 for October a year earlier.



Provisional birth rates per 1,000 population by month: United States, 1995–97



Provisional seasonally adjusted fertility rates per 1,000 women aged 15–44 years: United States, 1993–97



Provisional marriage rates per 1,000 population by month: United States, 1995–97

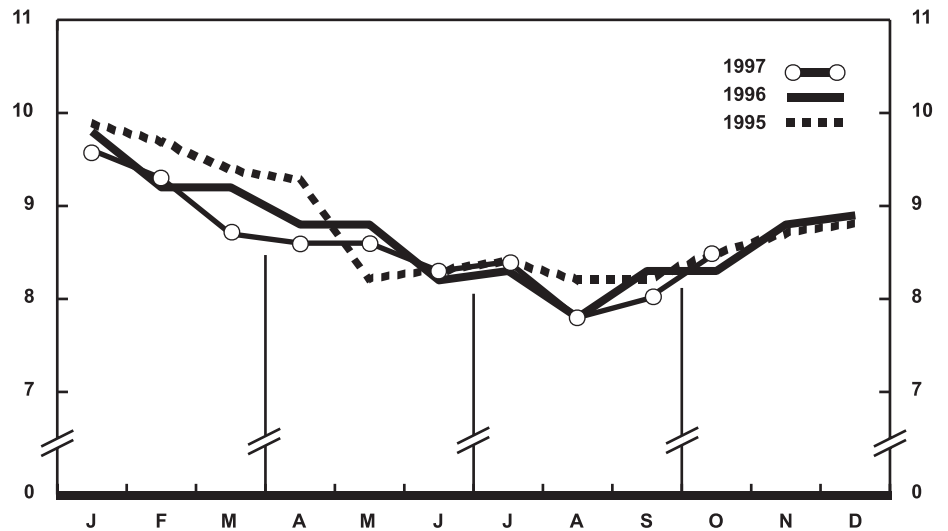
Among the 193,000 deaths for October 1997 were 2,600 deaths at ages under 1 year.

According to provisional statistics, there were 1,911,000 deaths during the first 10 months of 1997, less than 1 percent below the number estimated for January–October 1996 (1,920,000). The death rate, 8.6 per 1,000 population, was 1 percent lower than the rate for January–October 1996 (8.7). Among the 1,911,000 deaths for January–October 1997 were 22,700 deaths at ages under 1 year, yielding an infant mortality rate of 7.1 per 1,000 live births. This rate was 3 percent lower than the rate of 7.3 for the first 10 months of 1996.

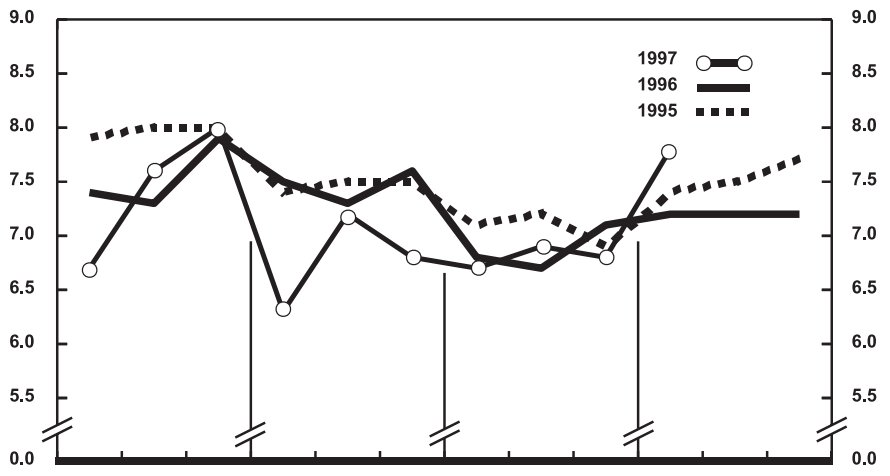
The death rate for the 12 months ending with October 1997 was 8.6 deaths per 1,000 population, 1 percent higher than the rate of 8.7 for the comparable 12-month period a year earlier. The infant mortality rate for this 12-month period was 7.1 per 1,000 live births, 3 percent lower than the rate of 7.3 for the 12 months ending with October 1996.

Current Mortality Sample, 12 months ending with September 1997—The provisional death rate for the 12 months ending with September 1997 was 860.3 per 100,000 population, 1 percent lower than the rate of 871.8 for the 12-month period ending September 1996. The provisional age-adjusted death rate for the 12-month period ending with September 1997 was 479.0 per 100,000 U.S. standard population, 3 percent lower than the rate of 494.6 for the 12-month period ending with September 1996. 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 for showing differences between race-sex groups within the population. Among the race-sex groups, the estimated age-adjusted death rates decreased for white males, black males, and white females. By age the death rate for the total population decreased for the age groups: 1–4 years, 15–24 years, 25–34 years, 35–44 years, 55–64 years, 65–74 years, and 75–84 years.

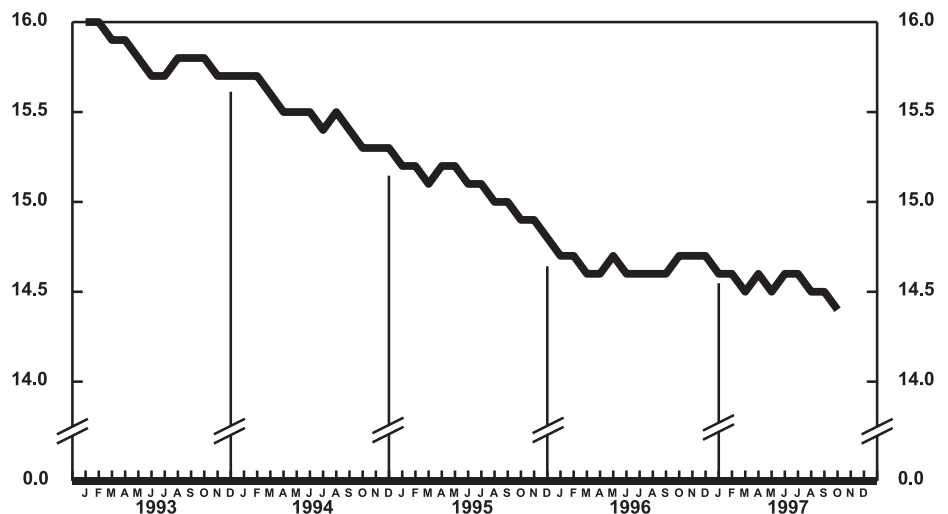
Among the major causes of death, the estimated death rate decreased between the two successive 12-month periods for



Provisional death rates per 1,000 population by month: United States, 1995–97



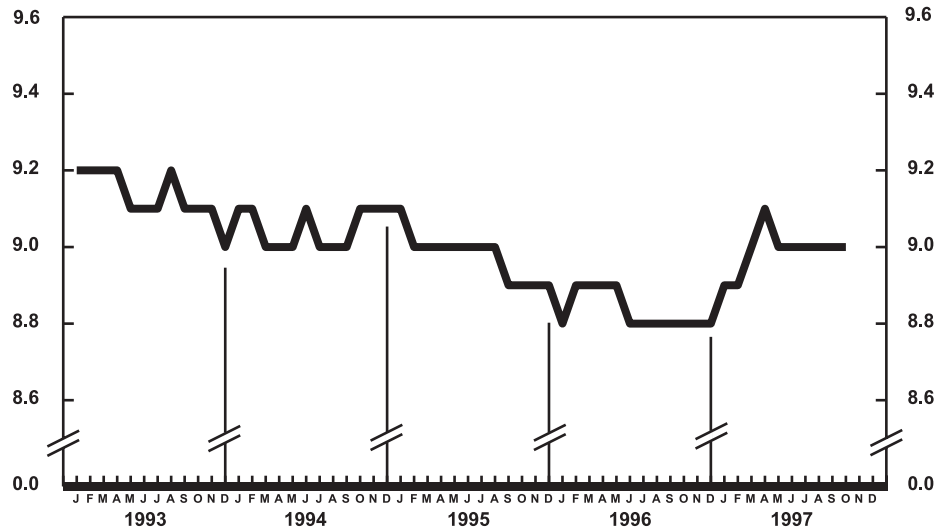
Provisional infant mortality rates per 1,000 live births by month: United States, 1995–97



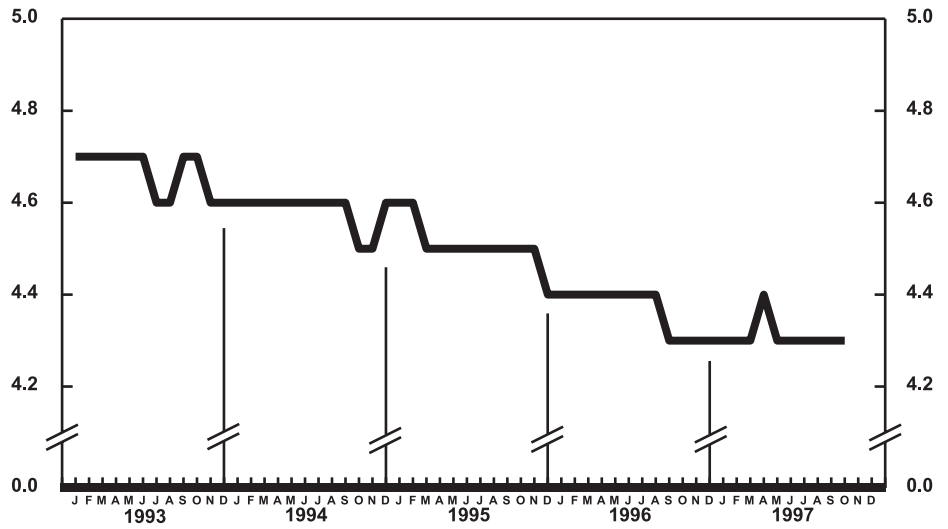
Provisional birth rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1993–97

Diseases of heart, Human immunodeficiency virus infection, and Homicide and legal intervention. The decrease for Homicide and legal intervention was largely due to the decline in the rate for homicide by firearms. The death rate increased between the two successive 12-month periods for Pneumonia and influenza.

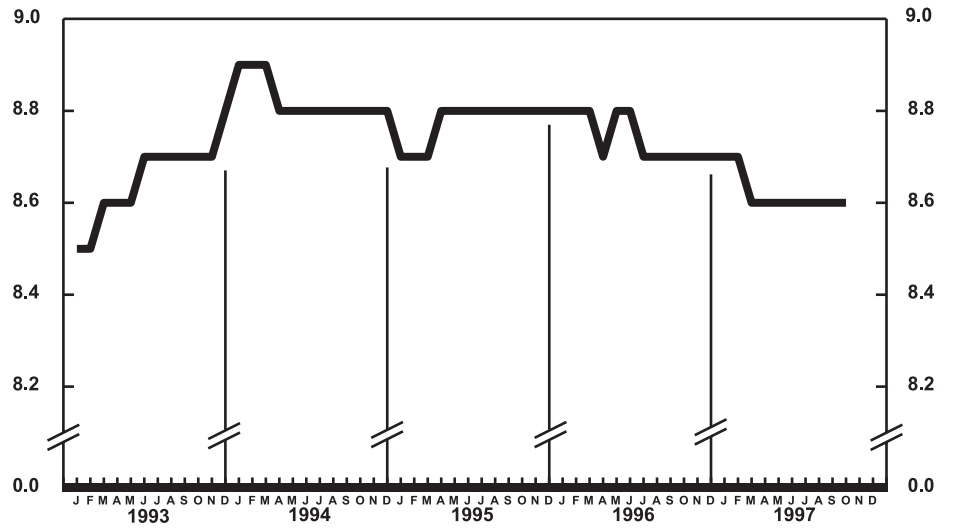
The infant mortality rate for the 12 months ending with September 1997 was 704.5 per 100,000 live births, 4.1 percent lower than the rate of 734.3 for the same 12-month period a year earlier. For infants under 28 days of age, the 12-month rate ending September 1997 was 450.2, 7 percent lower than the rate of 484.0 for the 12-month period a year earlier. The infant mortality rate for infants aged 28 days–11 months was 254.3 compared with a rate of 250.2 for the 12-month period a year earlier. The change in the mortality rate for infants aged 28 days–11 months was not statistically significant. Among causes of infant death, the infant mortality rate decreased between the two successive 12-month periods for Birth trauma and Sudden infant death syndrome.



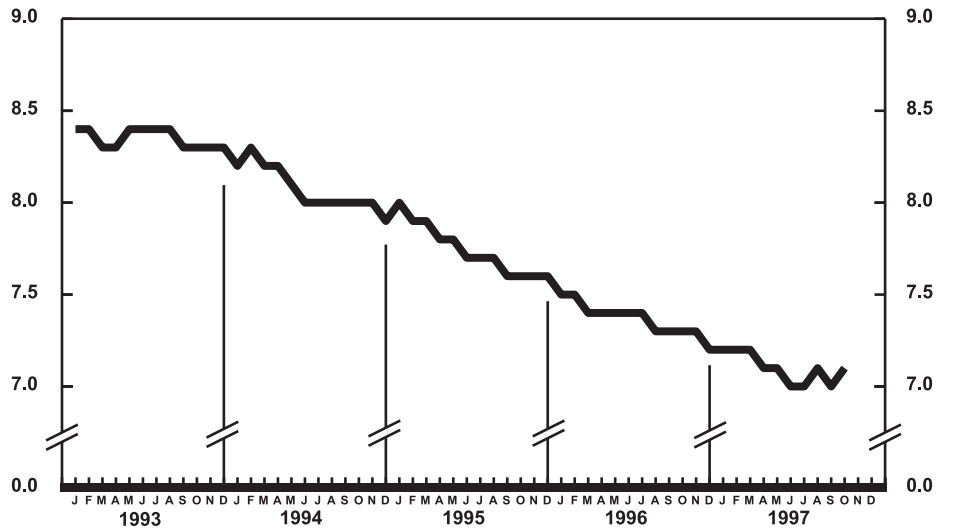
Provisional marriage rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1993–97



Provisional divorce rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1993–97



Provisional death rates per 1,000 population for successive 12-month periods ending with month indicated: United States, 1993-97



Provisional infant mortality rates per 1,000 live births for successive 12-month periods ending with month indicated: United States, 1993-97

Table 1. Provisional number of live births, marriages, divorces, deaths, and infant deaths and rates, by month: United States, January 1996–October 1997

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

Period	Live births				Marriages		Divorces		Deaths		Infant deaths	
	Number	Rate per 1,000 population	Rate per 1,000 women aged 15–44 years		Number	Rate per 1,000 population	Number	Rate per 1,000 population	Number	Rate per 1,000 population	Number	Rate per 1,000 live births
			Unadjusted	Seasonally adjusted ¹								
1996:												
January	318,000	14.2	63.2	66.3	100,000	4.6	94,000	4.2	220,000	9.8	2,400	7.4
February	286,000	13.7	60.7	62.0	155,000	7.7	85,000	4.1	193,000	9.2	2,200	7.3
March	334,000	14.9	66.3	67.3	147,000	8.2	93,000	4.2	206,000	9.2	2,600	7.9
April	314,000	14.5	64.3	65.9	172,000	8.2	95,000	4.4	192,000	8.8	2,300	7.5
May	332,000	14.8	65.7	66.2	241,000	10.7	103,000	4.6	198,000	8.8	2,400	7.3
June	304,000	14.0	62.2	61.0	242,000	11.2	103,000	4.8	179,000	8.2	2,300	7.6
July	343,000	15.3	67.9	65.2	235,000	10.5	96,000	4.3	187,000	8.3	2,300	6.8
August	360,000	16.0	71.3	67.3	239,000	10.7	101,000	4.5	176,000	7.8	2,200	6.7
September	345,000	15.8	70.6	66.5	225,000	10.3	92,000	4.2	182,000	8.3	2,400	7.1
October	348,000	15.5	68.9	69.2	231,000	10.3	99,000	4.4	188,000	8.3	2,500	7.2
November	313,000	14.3	63.9	66.0	171,000	7.9	94,000	4.3	191,000	8.8	2,300	7.2
December	302,000	13.4	59.8	62.1	184,000	8.1	94,000	4.2	200,000	8.9	2,300	7.2
1997:												
January	303,000	13.4	59.8	62.7	108,000	5.0	93,000	4.1	218,000	9.6	2,100	6.7
February	287,000	14.0	62.7	63.9	165,000	8.4	86,000	4.2	191,000	9.3	2,200	7.6
March	311,000	13.7	61.4	62.2	174,000	8.0	94,000	4.2	197,000	8.7	2,500	8.0
April	340,000	15.5	69.4	71.2	193,000	9.2	106,000	4.8	189,000	8.6	2,100	6.3
May	309,000	13.6	61.0	61.4	234,000	10.3	98,000	4.3	195,000	8.6	2,300	7.2
June	323,000	14.7	65.7	64.4	235,000	10.7	99,000	4.5	182,000	8.3	2,200	6.8
July	343,000	15.1	67.6	64.9	228,000	10.1	99,000	4.3	192,000	8.4	2,300	6.7
August	339,000	14.9	66.9	63.1	252,000	11.1	93,000	4.1	178,000	7.8	2,200	6.9
September	351,000	16.0	71.6	67.4	231,000	10.5	96,000	4.4	176,000	8.0	2,300	6.8
October	327,000	14.3	64.5	64.7	235,000	10.3	101,000	4.4	193,000	8.5	2,600	7.8

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, October 1996 and 1997, and cumulative figures, 1995–97

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

Area	Live births					Deaths				
	October		January–October			October		January–October		
	1997	1996	1997	1996	1995	1997	1996	1997	1996	1995
New England	14,873	15,686	149,645	149,993	156,081	9,547	9,303	98,386	97,140	99,548
Maine	1,235	1,209	11,503	11,608	11,888	907	730	9,364	9,094	10,040
New Hampshire	1,298	1,389	12,087	11,926	12,720	809	799	7,982	7,561	7,462
Vermont	430	671	5,650	5,751	5,681	398	467	4,349	4,180	4,133
Massachusetts	6,996	5,922	74,110	73,189	75,369	4,176	4,061	44,529	45,001	46,306
Rhode Island	1,124	1,023	10,311	10,536	10,715	817	810	8,014	7,695	7,938
Connecticut	3,790	5,472	35,984	36,983	39,708	2,440	2,436	24,148	23,609	23,669
Middle Atlantic	49,521	46,781	444,881	444,607	453,974	31,173	31,825	301,476	303,456	309,830
New York	30,548	24,495	238,680	226,691	223,902	14,243	14,687	136,393	137,262	141,835
New Jersey	5,535	8,333	86,222	88,948	100,933	6,207	6,024	58,287	59,781	62,103
Pennsylvania	13,438	13,953	119,979	128,968	129,139	10,723	11,114	106,796	106,413	105,892
East North Central	53,945	57,734	505,855	525,773	526,338	31,430	31,472	319,587	324,136	327,510
Ohio	15,902	17,266	126,758	128,784	130,207	8,265	7,720	87,528	85,642	87,272
Indiana	5,738	6,368	58,666	68,619	69,229	3,413	4,816	40,096	45,464	43,383
Illinois	15,028	16,269	150,438	154,420	156,459	8,665	8,692	84,623	86,621	89,927
Michigan	11,597	11,878	113,818	117,314	113,629	7,246	6,508	69,515	68,909	69,544
Wisconsin	5,680	5,953	56,175	56,636	56,814	3,841	3,736	37,825	37,500	37,384
West North Central	20,080	22,328	214,198	214,177	214,530	13,582	13,393	142,845	139,699	140,325
Minnesota	5,376	5,700	54,705	53,900	53,035	3,122	3,172	30,864	30,464	30,696
Iowa	2,852	3,398	30,493	29,001	28,984	2,166	1,794	23,101	21,822	20,789
Missouri	5,375	6,328	61,730	62,967	63,866	4,154	4,059	45,385	44,678	45,977
North Dakota	711	762	7,056	7,104	7,307	494	516	5,090	4,834	4,996
South Dakota	804	1,076	8,565	8,437	9,126	687	630	5,901	5,300	5,691
Nebraska	1,513	1,934	19,444	19,699	19,567	1,082	1,252	12,452	12,601	12,521
Kansas	3,449	3,130	32,205	33,069	32,645	1,877	1,970	20,052	20,000	19,655
South Atlantic	56,419	64,557	554,925	552,925	549,171	35,514	34,918	367,265	367,543	363,218
Delaware	803	862	8,404	8,592	8,434	600	560	5,388	5,310	5,107
Maryland	6,491	7,338	56,325	61,598	61,367	3,681	3,770	33,537	34,936	33,824
District of Columbia	701	727	6,968	6,898	7,567	471	545	4,990	5,210	5,488
Virginia	6,688	8,083	73,645	74,288	74,905	4,225	4,303	44,111	43,429	43,744
West Virginia	1,812	1,900	17,851	16,910	17,972	1,665	1,751	17,687	15,957	16,570
North Carolina	6,669	12,986	89,117	88,720	86,793	5,404	5,233	55,038	55,129	53,946
South Carolina	4,682	4,745	43,085	43,067	41,789	2,465	2,578	26,599	28,143	26,876
Georgia	11,104	10,948	99,096	96,425	96,512	4,583	4,756	50,444	49,620	48,588
Florida	17,469	16,968	160,434	156,427	153,832	12,420	11,422	129,471	129,809	129,075
East South Central	21,283	20,402	191,018	189,624	188,483	13,292	11,901	134,873	130,614	132,878
Kentucky	4,788	4,090	44,723	43,969	43,501	3,113	3,150	32,236	31,490	32,337
Tennessee	7,000	6,981	61,786	60,536	60,837	4,434	3,347	44,275	41,119	42,680
Alabama	5,150	5,442	51,260	51,429	52,095	3,461	3,250	35,853	35,748	35,360
Mississippi	4,345	3,889	33,249	33,690	32,050	2,284	2,154	22,509	22,257	22,501
West South Central	37,134	40,819	385,115	388,877	402,245	18,530	18,377	191,330	198,471	197,616
Arkansas	2,998	2,963	30,661	30,177	28,117	1,983	2,054	20,536	21,430	21,187
Louisiana	6,157	5,567	53,545	55,949	57,229	2,694	2,967	31,804	34,258	33,203
Oklahoma	4,674	4,305	39,468	38,224	39,508	3,023	2,727	28,042	27,657	27,205
Texas ¹	23,305	27,984	261,441	264,527	277,391	10,830	10,629	110,948	115,126	116,021
Mountain	23,613	23,916	228,117	216,354	205,558	9,755	10,622	101,052	102,373	95,194
Montana	868	963	8,828	9,172	9,408	624	677	6,452	6,434	6,368
Idaho	1,554	1,569	14,836	15,974	14,799	836	762	7,533	7,208	7,072
Wyoming	466	575	5,454	5,225	5,359	318	328	3,118	2,967	3,092
Colorado	4,916	3,915	45,177	40,446	42,489	2,252	2,481	21,280	21,373	20,855
New Mexico	2,557	2,505	21,360	22,776	22,864	981	1,084	10,782	10,478	10,303
Arizona	6,752	8,308	73,231	67,861	59,852	2,527	3,419	31,609	33,848	28,536
Utah	4,657	3,408	36,878	35,020	33,105	1,178	891	9,636	9,191	8,865
Nevada	1,843	2,673	22,353	19,880	17,682	1,039	980	10,642	10,874	10,103
Pacific	56,825	63,215	544,978	584,796	593,905	30,586	25,734	254,479	255,848	255,538
Washington	7,748	7,543	67,093	68,230	66,332	2,970	4,072	35,856	34,518	33,024
Oregon	3,094	3,450	37,395	37,554	37,017	1,991	2,230	24,155	23,338	23,551
California ¹	43,736	49,960	417,905	455,316	466,424	24,775	18,626	185,957	189,404	190,635
Alaska	768	810	8,213	8,374	8,796	217	161	2,042	1,972	2,032
Hawaii	1,479	1,452	14,372	15,322	15,336	633	645	6,469	6,616	6,296
Puerto Rico ²	5,978	5,722	54,632	50,083	50,027	1,636	2,513	22,135	22,645	24,515

¹Figures include adjustments for varying lengths of reporting periods; see [Technical notes](#).

²Data for Puerto Rico are not included in U.S. total figures.

NOTES: 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.

Table 3. Provisional number of marriages and divorces: Each division and State, October 1996 and 1997, and cumulative figures, 1995-97

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

Area	Marriages					Divorces				
	October		January-October			October		January-October		
	1997	1996	1997	1996	1995	1997	1996	1997	1996	1995
New England	10,447	13,171	176,993	81,584	84,352	4,011	4,163	37,186	32,652	33,359
Maine	---	1,118	---	9,106	9,691	464	549	3,472	4,226	4,355
New Hampshire	1,156	1,346	8,483	8,128	7,995	501	474	4,829	3,904	4,126
Vermont	765	862	5,159	5,064	5,041	288	292	2,367	2,231	2,396
Massachusetts	5,133	5,544	36,191	34,022	36,004	1,452	1,662	14,137	10,827	11,241
Rhode Island	884	883	7,149	6,801	6,414	241	304	2,564	2,758	3,090
Connecticut	2,509	3,418	20,011	18,463	19,207	1,065	882	9,817	8,706	8,151
Middle Atlantic	32,690	33,705	255,817	225,980	226,154	13,902	11,121	110,530	105,105	100,896
New York ²	17,082	19,710	143,514	124,427	119,015	8,170	5,780	56,583	52,348	47,341
New Jersey	6,042	5,469	47,997	40,711	43,985	2,427	2,227	21,862	21,130	20,603
Pennsylvania	9,566	8,526	64,306	60,842	63,154	3,305	3,114	32,085	31,627	32,952
East North Central	36,273	36,710	273,130	280,810	285,731	¹ 13,604	¹ 12,294	¹ 119,438	¹ 116,785	¹ 121,268
Ohio	9,567	9,281	72,477	70,383	77,568	4,787	3,877	39,288	36,304	40,539
Indiana	2,750	5,340	26,401	42,249	43,050	---	---	---	---	---
Illinois	9,922	10,326	82,461	76,824	70,442	3,716	3,635	32,970	33,622	32,369
Michigan	9,600	7,279	59,683	59,081	62,220	3,700	3,161	32,830	32,407	33,667
Wisconsin	4,434	4,484	32,108	32,273	32,451	1,401	1,621	14,350	14,452	14,693
West North Central	14,984	16,831	123,665	128,418	127,503	6,385	6,643	60,531	62,285	62,635
Minnesota	4,196	3,628	28,050	29,671	29,441	1,403	1,403	12,577	12,689	13,008
Iowa	2,525	2,525	19,773	19,827	19,400	1,020	788	8,311	8,257	8,822
Missouri	3,971	4,490	37,067	39,768	38,342	2,214	2,247	20,759	21,879	21,964
North Dakota	461	505	3,763	4,442	4,046	231	193	1,734	1,933	1,861
South Dakota	533	584	6,197	5,971	6,485	253	256	2,298	2,301	2,402
Nebraska	1,035	1,036	10,951	10,901	10,706	426	564	5,230	5,103	5,193
Kansas	2,263	4,063	17,864	17,838	19,083	838	1,192	9,622	10,123	9,385
South Atlantic	39,726	40,047	393,854	372,098	376,074	19,627	18,220	196,423	186,347	189,422
Delaware	520	543	4,651	4,473	4,578	300	307	2,512	2,887	3,111
Maryland	3,775	4,193	36,051	35,174	36,503	1,254	1,569	12,741	13,127	12,331
District of Columbia	485	186	2,964	1,830	1,804	122	56	901	872	1,329
Virginia	5,942	6,707	57,281	55,181	58,199	2,330	2,545	25,885	23,288	23,465
West Virginia	940	1,107	9,086	9,454	9,689	741	627	7,906	6,257	7,531
North Carolina	6,012	5,670	55,805	51,791	52,823	3,078	2,723	31,415	30,086	31,593
South Carolina	4,071	3,555	37,005	36,582	38,171	1,528	1,355	13,099	12,980	12,474
Georgia	5,173	5,573	52,800	51,207	52,990	2,773	3,037	31,023	30,389	31,318
Florida	12,808	12,513	138,211	126,406	121,317	7,501	6,001	70,941	66,461	66,270
East South Central	14,043	15,244	161,697	160,572	163,101	6,604	8,094	69,512	83,367	81,107
Kentucky	4,382	4,149	39,272	36,773	39,995	1,767	1,690	18,320	18,188	19,278
Tennessee	4,953	7,181	64,182	66,994	70,462	2,065	3,008	19,738	29,089	28,593
Alabama	3,031	2,723	39,369	39,175	35,127	1,480	2,089	19,353	22,481	22,152
Mississippi	1,677	1,191	18,874	17,630	17,517	1,292	1,307	12,101	13,609	11,084
West South Central	25,081	23,198	242,479	238,418	257,350	¹ 2,996	¹ 2,202	¹ 28,322	¹ 28,335	¹ 115,350
Arkansas	3,479	2,901	29,219	29,400	29,959	1,200	713	12,300	12,113	13,230
Louisiana	2,918	4,573	29,919	31,586	33,431	---	---	---	---	---
Oklahoma	2,109	1,868	23,768	22,421	24,068	1,796	1,489	16,022	16,222	18,438
Texas ³	16,575	13,856	159,573	155,011	169,892	---	---	---	---	83,682
Mountain	19,973	22,512	213,307	240,003	232,117	¹ 5,097	¹ 6,686	¹ 48,899	¹ 62,513	¹ 63,008
Montana	482	477	5,931	5,919	5,939	367	406	3,335	3,594	3,469
Idaho	1,238	1,288	12,853	12,912	13,466	507	508	5,936	5,783	5,670
Wyoming	290	329	4,275	4,269	4,267	295	290	2,459	2,612	2,671
Colorado	2,470	2,556	29,373	29,934	30,015	---	---	---	---	---
New Mexico ^{4,5}	1,227	1,271	13,820	13,688	12,819	940	819	7,978	9,185	9,749
Arizona ²	3,356	3,187	33,475	33,543	32,451	2,164	2,255	21,638	21,635	23,123
Utah	1,340	1,534	18,111	19,394	18,736	824	718	7,553	7,373	7,509
Nevada	9,570	11,870	95,469	120,344	114,424	---	1,690	---	12,331	10,817
Pacific	36,695	26,171	285,677	256,609	242,380	¹ 3,692	¹ 3,827	¹ 41,786	¹ 40,756	¹ 43,607
Washington	3,224	3,244	37,361	32,894	37,133	2,095	1,736	23,424	22,155	24,164
Oregon	1,612	3,470	23,004	22,099	22,640	950	1,637	11,891	12,430	12,670
California	29,795	17,636	204,092	180,812	162,196	---	---	---	---	---
Alaska	332	237	4,485	4,322	4,687	188	210	2,483	2,257	2,352
Hawaii	1,732	1,584	16,735	16,482	15,724	459	244	3,988	3,914	4,421
Puerto Rico ⁶	1,630	2,028	22,986	23,775	25,423	---	---	---	---	---

--- Data not available.

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

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

³Figures include adjustments for varying lengths of reporting periods; see [Technical notes](#).

⁴Figures for marriages are marriage licenses issued.

⁵Figures for divorces include estimates for some counties.

⁶Data for Puerto Rico are not included in U.S. total figures.

NOTES: 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.

Table 4. Provisional number of deaths under 1 year and infant mortality rates: Each division and State, 12 months ending with October 1996 and 1997

[Data are estimates by State of residence. Figures should be interpreted with caution because of conversion of place of occurrence to place of residence; see [Technical notes](#). Infant mortality rates are deaths under 1 year per 1,000 live births in specified area]

Area	12 months ending with October			
	1997		1996	
	Number	Rate	Number	Rate
New England	891	5.2	964	5.6
Maine	53	3.9	66	4.8
New Hampshire	65	4.5	73	5.1
Vermont	43	6.4	62	9.1
Massachusetts	344	4.2	426	5.1
Rhode Island	74	6.0	72	5.8
Connecticut	312	7.3	265	6.2
Middle Atlantic	3,615	6.8	3,809	7.3
New York	1,844	6.5	1,812	6.8
New Jersey	729	6.6	826	8.0
Pennsylvania	1,042	7.4	1,171	7.7
East North Central	4,618	7.6	5,021	8.0
Ohio	1,119	7.4	1,202	7.8
Indiana	508	6.9	663	7.9
Illinois	1,467	8.1	1,554	8.5
Michigan	1,083	8.1	1,093	8.0
Wisconsin	441	6.7	509	7.6
West North Central	1,752	6.9	1,847	7.3
Minnesota	389	6.0	415	6.5
Iowa	192	5.3	226	6.2
Missouri	575	8.0	578	7.8
North Dakota	58	6.9	34	4.0
South Dakota	73	7.2	56	5.7
Nebraska	194	8.4	195	8.4
Kansas	271	6.9	343	9.1
South Atlantic	5,349	8.1	5,485	8.3
Delaware	76	7.6	81	8.0
Maryland	582	8.8	594	8.2
District of Columbia	104	12.5	127	15.3
Virginia	642	7.3	666	7.5
West Virginia	173	8.4	157	7.9
North Carolina	1,018	9.5	946	9.1
South Carolina	419	8.3	410	8.0
Georgia	959	8.2	1,069	9.5
Florida	1,376	7.1	1,435	7.5
East South Central	2,156	9.4	2,030	9.0
Kentucky	430	8.1	406	7.9
Tennessee	694	9.3	609	8.3
Alabama	561	9.1	636	10.5
Mississippi	471	11.5	379	9.8
West South Central	3,171	6.9	3,291	7.1
Arkansas	315	8.7	304	8.4
Louisiana	598	9.4	547	8.3
Oklahoma	374	8.1	400	9.0
Texas ¹	1,884	6.0	2,040	6.5
Mountain	2,150	8.1	1,756	7.0
Montana	74	7.1	89	8.1
Idaho	118	6.7	134	7.1
Wyoming	32	5.0	40	6.5
Colorado	391	7.5	356	7.4
New Mexico	180	7.0	165	6.1
Arizona	951	11.2	600	7.8
Utah	252	5.9	225	5.5
Nevada	152	5.9	147	6.2
Pacific	3,912	6.0	4,137	5.9
Washington	387	4.9	413	5.2
Oregon	267	6.1	226	5.2
California ¹	3,090	6.1	3,323	6.0
Alaska	63	6.3	73	7.6
Hawaii	105	6.0	102	5.6
Puerto Rico ²	582	8.8	604	9.9

¹Figures include adjustments for varying lengths of reporting periods; see [Technical notes](#).

²Data for Puerto Rico are not included in U.S. total figures.

NOTES: 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, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997

[Data are provisional, estimated from a 10-percent sample of deaths. Age-specific rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see [Technical notes](#). Because of rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates, see [Technical notes](#)]

Age, race, and sex	September				January–September				12 months ending with September							
	1997		1996		1997		1996		1997		1996					
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate				
All races, both sexes¹																
All ages	176,000	797.5	182,000	834.1	1,718,000	859.7	1,732,000	873.9	2,297,000	860.3	2,307,000	871.8				
Under 1 year	} 3,320	69.7	3,550	74.5	20,200	² 720.7	21,100	² 730.5	27,200	² 728.1	28,300	² 734.1				
1–4 years					4,040	35.3	4,680	40.0	5,220	34.0	6,220	39.9				
5–14 years					6,400	22.1	6,790	23.6	8,400	21.7	9,030	23.5				
15–24 years					2,550	84.5	2,980	101.0	24,020	88.0	25,370	94.4	32,300	88.6	34,130	95.1
25–34 years					3,810	117.5	4,550	137.8	34,860	117.2	40,090	132.3	47,000	118.0	54,330	134.1
35–44 years	7,280	200.9	7,950	223.6	67,170	204.5	72,890	225.6	90,710	206.7	98,540	228.6				
45–54 years	11,580	416.1	11,780	441.3	107,790	431.0	106,310	441.7	144,290	432.7	141,470	441.5				
55–64 years	18,040	1,000.3	18,660	1,063.9	172,500	1,061.7	175,820	1,102.7	231,110	1,065.7	234,470	1,102.5				
65–74 years	35,580	2,342.1	37,460	2,449.4	343,320	2,478.0	358,420	2,560.0	462,020	2,492.7	474,990	2,539.1				
75–84 years	50,570	5,238.1	51,890	5,511.6	498,270	5,713.2	494,690	5,809.4	662,320	5,687.1	655,840	5,780.4				
85 years and over	42,890	13,380.2	42,710	13,872.8	438,550	15,235.1	425,200	15,290.2	585,440	15,269.7	566,560	15,304.2				
Not stated	70	...	70	...	780	...	790	...	940	...	1,000	...				
Age-adjusted rate ³ . . . . .	...	449.5	...	479.4	...	477.6	...	495.2	...	479.0	...	494.6			
All races, male¹																
All ages	88,540	820.6	92,030	865.3	860,280	879.3	875,900	904.7	1,149,560	879.5	1,167,160	903.2				
Under 1 year	} 1,940	79.5	2,080	85.3	11,550	² 806.6	11,410	² 773.2	15,630	² 818.8	15,540	² 786.8				
1–4 years					2,180	37.1	2,650	44.5	2,770	35.2	3,560	44.6				
5–14 years					3,760	25.3	4,050	27.4	4,850	24.5	5,440	27.6				
15–24 years					1,970	127.0	2,320	154.0	17,910	127.6	19,130	139.3	24,120	128.7	25,970	141.7
25–34 years					2,730	168.3	3,070	186.2	24,710	166.1	28,390	187.6	33,350	167.4	38,710	191.2
35–44 years	4,700	260.8	5,190	294.1	44,970	275.2	49,650	309.8	60,640	277.8	67,120	313.8				
45–54 years	7,010	514.7	7,620	584.3	67,830	554.4	67,520	574.0	90,600	555.2	90,160	576.1				
55–64 years	10,980	1,277.8	11,300	1,353.8	103,870	1,342.2	105,540	1,391.1	139,610	1,351.6	140,610	1,389.7				
65–74 years	20,170	2,968.8	21,150	3,101.3	195,900	3,164.4	202,850	3,251.7	261,850	3,162.8	270,130	3,242.1				
75–84 years	24,900	6,512.2	25,360	6,857.1	242,080	7,026.4	243,140	7,291.3	322,260	7,008.7	321,710	7,245.7				
85 years and over	14,090	15,265.2	13,910	15,964.4	144,960	17,531.6	141,070	18,004.1	193,200	17,563.6	187,550	17,999.0				
Not stated	40	...	20	...	570	...	520	...	680	...	660	...				
Age-adjusted rate ³ . . . . .	...	567.8	...	610.1	...	604.0	...	631.1	...	605.2	...	631.8			
All races, female¹																
All ages	87,150	774.7	89,570	804.3	857,610	840.7	856,220	844.5	1,147,370	841.9	1,137,730	840.7				
Under 1 year	} 1,380	59.3	1,480	63.7	8,620	² 629.4	9,660	² 687.2	11,550	² 633.2	12,790	² 679.2				
1–4 years					1,870	33.2	2,030	35.4	2,450	32.7	2,660	34.9				
5–14 years					2,640	18.7	2,740	19.5	3,550	18.8	3,580	19.1				
15–24 years					580	39.6	650	45.0	6,110	46.1	6,240	47.4	8,170	46.1	8,160	46.4
25–34 years					1,080	66.6	1,480	89.6	10,160	68.3	11,700	77.2	13,650	68.6	15,620	77.0
35–44 years	2,580	141.7	2,770	154.6	22,200	134.4	23,240	142.8	30,070	136.3	31,420	144.7				
45–54 years	4,570	321.5	4,160	304.7	39,970	313.0	38,790	315.1	53,690	315.3	51,310	313.1				
55–64 years	7,060	747.8	7,360	800.6	68,630	806.6	70,290	840.9	91,510	805.8	93,850	841.7				
65–74 years	15,410	1,835.2	16,320	1,926.1	147,420	1,923.6	155,570	2,004.2	200,170	1,951.9	204,860	1,974.7				
75–84 years	25,670	4,401.9	26,520	4,640.0	256,190	4,855.8	251,560	4,855.7	340,060	4,824.9	334,130	4,839.0				
85 years and over	28,790	12,613.5	28,790	13,032.9	293,590	14,312.0	284,130	14,225.5	392,240	14,346.7	379,020	14,243.5				
Not stated	30	...	50	...	210	...	270	...	260	...	340	...				
Age-adjusted rate ³ . . . . .	...	349.8	...	369.2	...	371.6	...	382.3	...	373.1	...	380.3			
White																
All ages	150,000	823.3	155,640	863.3	1,482,010	896.6	1,490,540	907.6	1,978,910	896.0	1,983,380	904.6				
Under 1 year	} 2,180	57.8	2,420	64.3	13,390	² 603.5	13,720	² 610.6	17,770	² 600.9	18,720	² 621.9				
1–4 years					2,980	32.6	3,160	34.4	3,750	30.8	4,300	34.9				
5–14 years					4,770	20.9	4,780	20.9	6,330	20.7	6,520	21.4				
15–24 years					1,890	78.7	2,270	96.7	16,940	78.0	17,850	83.3	22,730	78.4	24,220	84.7
25–34 years					2,590	98.7	3,320	123.7	25,010	103.8	28,260	114.5	33,330	103.3	37,930	114.9
35–44 years	5,030	167.4	5,590	189.0	48,650	178.4	52,520	195.4	65,950	181.0	70,870	197.5				
45–54 years	8,750	369.8	9,010	395.8	82,770	389.0	80,910	393.9	110,540	389.4	108,050	395.1				
55–64 years	14,780	952.2	15,010	992.1	139,580	997.7	142,890	1,038.4	187,050	1,001.9	190,470	1,037.6				
65–74 years	30,050	2,244.8	32,520	2,404.2	296,120	2,422.8	311,250	2,511.1	398,040	2,433.9	412,250	2,488.4				
75–84 years	45,630	5,224.6	46,340	5,429.2	449,030	5,689.5	444,240	5,753.7	595,600	5,651.4	589,120	5,726.8				
85 years and over	39,060	13,466.4	39,120	13,959.2	402,270	15,443.3	390,380	15,428.6	537,200	15,481.3	520,180	15,440.2				
Not stated	50	...	40	...	490	...	570	...	610	...	750	...				
Age-adjusted rate ³ . . . . .	...	423.8	...	454.8	...	455.2	...	469.7	...	455.8	...	469.2			

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, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997—Con.

[Data are provisional, estimated from a 10-percent sample of deaths. Age-specific rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see [Technical notes](#). Because of rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates, see [Technical notes](#)]

Age, race, and sex	September				January–September				12 months ending with September			
	1997		1996		1997		1996		1997		1996	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
White male												
All ages	74,830	834.7	78,400	885.9	734,950	903.7	746,110	925.6	980,780	902.6	994,120	923.9
Under 1 year	1,190	61.5	1,380	71.5	7,740	² 680.7	7,470	² 648.1	10,270	² 677.4	10,390	² 672.5
1–4 years					1,570	33.4	1,890	40.2	1,970	31.5	2,580	40.9
5–14 years					2,760	23.4	2,820	24.0	3,630	23.1	3,890	24.8
15–24 years	1,400	112.8	1,710	141.9	12,330	109.6	13,160	119.7	16,640	110.9	18,000	122.7
25–34 years	1,870	141.0	2,280	168.3	17,860	146.7	20,380	163.8	23,890	146.5	27,530	165.2
35–44 years	3,410	225.7	3,660	246.7	33,360	243.3	36,190	268.4	45,090	246.2	48,810	271.2
45–54 years	5,470	467.1	5,980	531.8	52,260	496.3	51,860	511.1	69,660	495.9	69,580	515.1
55–64 years	9,100	1,216.4	9,290	1,275.9	85,240	1,264.3	86,270	1,303.2	114,320	1,270.9	115,120	1,303.6
65–74 years	17,070	2,827.9	18,550	3,052.0	170,170	3,090.9	177,400	3,187.7	227,060	3,083.4	235,900	3,173.3
75–84 years	22,560	6,499.6	22,910	6,805.5	219,490	7,013.3	219,440	7,230.7	291,700	6,983.5	290,740	7,194.8
85 years and over	12,730	15,380.5	12,640	16,046.6	131,770	17,776.5	128,830	18,187.9	176,050	17,855.0	171,070	18,160.3
Not stated	20	...	10	...	410	...	390	...	490	...	510	...
Age-adjusted rate ³ . . . . .	...	534.3	...	579.7	...	574.4	...	597.0	...	574.6	...	597.8
White female												
All ages	75,170	812.2	77,230	841.4	747,060	889.7	744,430	890.1	998,130	889.6	989,260	886.1
Under 1 year	980	53.4	1,040	56.8	5,650	² 522.4	6,240	² 571.9	7,500	² 520.5	8,330	² 568.6
1–4 years					1,410	31.6	1,270	28.3	1,780	30.0	1,720	28.7
5–14 years					2,020	18.1	1,960	17.7	2,700	18.1	2,630	17.7
15–24 years	490	42.3	560	49.0	4,610	44.1	4,690	45.0	6,090	43.5	6,210	44.6
25–34 years	720	55.5	1,050	78.9	7,150	60.0	7,880	64.4	9,440	59.2	10,400	63.6
35–44 years	1,620	108.4	1,930	130.9	15,290	112.7	16,330	121.9	20,870	115.2	22,070	123.4
45–54 years	3,280	274.4	3,020	262.2	30,510	283.9	29,050	279.3	40,880	285.1	38,470	277.9
55–64 years	5,680	706.4	5,720	728.8	54,340	749.5	56,620	793.0	72,730	751.7	75,350	791.0
65–74 years	12,970	1,764.5	13,960	1,874.2	125,950	1,875.0	133,850	1,959.3	170,980	1,901.9	176,350	1,930.9
75–84 years	23,080	4,385.5	23,430	4,532.9	229,540	4,820.2	224,800	4,797.6	303,900	4,776.8	298,380	4,777.1
85 years and over	26,330	12,702.1	26,490	13,148.0	270,500	14,515.3	261,560	14,356.9	361,140	14,538.6	349,100	14,384.0
Not stated	30	...	30	...	80	...	180	...	120	...	240	...
Age-adjusted rate ³ . . . . .	...	330.2	...	348.6	...	354.6	...	363.4	...	355.5	...	361.5
Black												
All ages	22,370	799.7	22,240	805.1	204,910	809.0	212,310	845.6	276,860	818.5	283,510	846.4
Under 1 year	1,040	140.9	970	129.9	6,130	² 1,456.9	6,610	² 1,403.0	8,530	² 1,515.1	8,740	² 1,387.3
1–4 years					910	51.6	1,310	71.1	1,230	52.6	1,680	68.3
5–14 years					1,300	28.4	1,570	35.5	1,690	27.9	1,970	33.0
15–24 years	580	126.5	610	135.6	5,960	143.6	6,550	159.8	8,050	145.3	8,590	157.1
25–34 years	1,070	242.5	1,070	241.6	8,640	214.9	10,600	261.4	11,970	222.3	14,750	272.3
35–44 years	2,030	452.4	2,080	476.2	16,690	411.3	18,500	467.2	22,310	412.3	25,190	477.1
45–54 years	2,480	835.1	2,340	829.4	22,220	835.9	22,350	881.9	29,880	844.1	29,570	876.7
55–64 years	2,840	1,553.6	3,190	1,800.1	28,910	1,758.3	29,080	1,806.4	38,960	1,772.5	38,910	1,812.3
65–74 years	4,790	3,527.7	4,280	3,193.6	40,680	3,308.1	41,320	3,387.1	55,420	3,373.1	54,920	3,373.5
75–84 years	4,270	5,999.0	4,600	6,633.6	42,050	6,533.2	43,850	6,967.5	57,140	6,651.9	58,270	6,945.2
85 years and over	3,260	13,490.9	3,060	13,145.1	31,160	14,298.0	30,360	14,426.1	41,370	14,265.5	40,680	14,580.6
Not stated	20	...	30	...	270	...	220	...	310	...	250	...
Age-adjusted rate ³ . . . . .	...	695.4	...	707.9	...	701.2	...	742.1	...	711.0	...	743.1
Black male												
All ages	11,860	892.8	11,580	883.4	107,730	895.7	113,640	954.0	145,360	905.1	152,150	957.3
Under 1 year	680	181.5	590	155.7	3,400	² 1,595.7	3,510	² 1,477.8	4,770	² 1,673.7	4,680	² 1,467.1
1–4 years					520	58.8	660	70.6	700	59.1	860	69.0
5–14 years					820	35.6	950	42.2	1,020	33.2	1,200	39.6
15–24 years	510	221.7	520	230.9	4,770	230.0	5,230	255.0	6,420	230.9	6,930	253.3
25–34 years	740	353.5	690	329.1	5,950	311.7	7,240	377.5	8,190	320.7	10,170	396.6
35–44 years	1,160	551.7	1,350	661.4	10,480	552.6	12,150	656.8	14,060	555.1	16,660	675.6
45–54 years	1,410	1,047.3	1,440	1,126.1	13,940	1,156.3	14,050	1,223.6	18,700	1,165.8	18,500	1,210.7
55–64 years	1,610	2,029.9	1,740	2,258.3	16,210	2,271.0	17,000	2,428.8	22,160	2,322.9	22,560	2,418.0
65–74 years	2,650	4,659.2	2,170	3,870.5	21,980	4,277.3	22,230	4,365.9	29,890	4,350.8	29,850	4,389.7
75–84 years	2,020	7,656.3	1,980	7,792.2	18,800	7,915.7	20,300	8,805.9	25,500	8,069.6	26,740	8,681.8
85 years and over	1,070	15,137.6	1,090	16,217.1	10,700	16,770.4	10,190	16,858.4	13,760	16,188.2	13,860	17,325.0
Not stated	20	...	10	...	150	...	130	...	180	...	150	...
Age-adjusted rate ³ . . . . .	...	906.6	...	905.0	...	912.7	...	983.0	...	925.4	...	985.7

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, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997—Con.

[Data are provisional, estimated from a 10-percent sample of deaths. Age-specific rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see [Technical notes](#). Because of rounding of estimates, figures may not add to totals. For method of computation and information on standard errors of the estimates, see [Technical notes](#)]

Age, race, and sex	September				January–September				12 months ending with September							
	1997		1996		1997		1996		1997		1996					
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate				
Black female																
All ages	10,510	715.6	10,660	734.4	97,190	730.7	98,670	747.9	131,500	740.2	131,350	746.2				
Under 1 year	} 360	99.1	380	103.2	2,740	² 1,314.3	3,090	² 1,339.1	3,760	² 1,352.5	4,060	² 1,305.5				
1–4 years					380	44.1	650	71.5	540	46.9	820	67.7				
5–14 years					480	21.5	620	28.1	670	22.5	770	26.2				
15–24 years					70	*	100	*	1,190	57.1	1,320	65.4	1,630	59.1	1,660	60.8
25–34 years					330	142.3	370	158.6	2,690	126.6	3,370	157.5	3,780	133.5	4,580	160.6
35–44 years	870	364.9	730	313.7	6,210	287.9	6,350	301.0	8,250	286.7	8,530	303.1				
45–54 years	1,070	659.2	900	583.4	8,280	570.3	8,300	598.7	11,180	577.5	11,070	600.0				
55–64 years	1,240	1,198.3	1,450	1,447.6	12,700	1,364.1	12,080	1,326.8	16,790	1,349.7	16,350	1,346.8				
65–74 years	2,140	2,712.1	2,110	2,706.8	18,700	2,615.2	19,090	2,684.0	25,530	2,670.5	25,070	2,644.5				
75–84 years	2,250	5,022.9	2,620	5,963.4	23,240	5,720.4	23,550	5,903.8	31,640	5,826.9	31,530	5,937.9				
85 years and over	2,190	12,810.1	1,980	11,958.4	20,460	13,274.5	20,160	13,462.8	27,600	13,463.4	26,820	13,477.4				
Not stated	–	...	20	...	120	...	90	...	130	...	100	...				
Age-adjusted rate ³ . . . . .	...	531.6	...	553.4	...	536.8	...	555.8	...	543.7	...	555.1			

... Category not applicable.

* Figure does not meet standards of reliability or precision; see [Technical notes](#).

– Quantity zero.

¹Includes races other than white and black.

²Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see [table 9](#) for infant mortality rates.

³For method of computation, see [Technical notes](#).

NOTES: 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.

Table 6. Provisional number of deaths and death rates for 72 selected causes, Human immunodeficiency virus infection, and Alzheimer's disease: United States, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population. Because of 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 asterisks preceding cause-of-death categories, see [Technical notes](#)]

Cause of death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>)	September		September		January–September				12 months ending with September			
	1997		1996		1997		1996		1997		1996	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	176,000	797.5	182,000	834.1	1,718,000	859.7	1,732,000	873.9	2,297,000	860.3	2,307,000	871.8
Shigellosis and amebiasis004,006	–	*	–	*	–	*	–	*	–	*	–	*
Certain other intestinal infections007–009	50	*	90	*	590	0.3	670	0.3	740	0.3	810	0.3
Tuberculosis010–018	60	*	90	*	750	0.4	690	0.3	1,060	0.4	1,030	0.4
Tuberculosis of respiratory system010–012	30	*	80	*	580	0.3	560	0.3	820	0.3	840	0.3
Other tuberculosis013–018	30	*	10	*	170	0.1	140	0.1	240	0.1	190	0.1
Whooping cough033	–	*	–	*	20	*	10	*	20	*	20	*
Streptococcal sore throat, scarlatina, and erysipelas034–035	–	*	–	*	–	*	–	*	–	*	–	*
Meningococcal infection036	20	*	30	*	250	0.1	220	0.1	300	0.1	240	0.1
Septicemia038	1,790	8.1	1,510	6.9	16,560	8.3	16,110	8.1	22,130	8.3	21,270	8.0
Acute poliomyelitis045	–	*	–	*	–	*	–	*	–	*	–	*
Measles055	–	*	–	*	10	*	–	*	10	*	–	*
Viral hepatitis070	340	1.5	310	1.4	3,110	1.6	2,760	1.4	4,170	1.6	3,660	1.4
Syphilis090–097	–	*	20	*	40	*	30	*	40	*	40	*
All other infectious and parasitic diseases ¹001–003,005,020–032,037,039–041,*042–*044,046–054,056–066,071–088,098–139	1,640	7.4	2,760	12.7	16,830	8.4	29,710	15.0	25,060	9.4	41,370	15.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues140–208	43,450	197.1	46,250	212.4	398,810	199.5	406,180	204.9	534,960	200.4	539,660	204.0
Malignant neoplasms of lip, oral cavity, and pharynx140–149	560	2.5	770	3.5	5,780	2.9	5,910	3.0	7,710	2.9	7,830	3.0
Malignant neoplasms of digestive organs and peritoneum150–159	9,910	45.0	10,640	48.9	92,580	46.3	94,230	47.5	125,190	46.9	125,630	47.5
Malignant neoplasms of respiratory and intrathoracic organs160–165	12,880	58.4	13,750	63.1	116,760	58.4	118,860	60.0	156,950	58.8	157,590	59.6
Malignant neoplasm of breast174–175	3,310	15.0	3,590	16.5	30,500	15.2	33,160	16.7	40,870	15.3	44,150	16.7
Malignant neoplasms of genital organs179–187	4,800	21.8	5,020	23.0	44,640	22.3	45,020	22.7	59,860	22.4	60,040	22.7
Malignant neoplasms of urinary organs188–189	1,890	8.6	1,970	9.0	17,860	8.9	17,170	8.7	23,720	8.9	22,720	8.6
Malignant neoplasms of all other and unspecified sites170–173,190–199	5,520	25.0	5,530	25.4	48,510	24.3	49,710	25.1	65,050	24.4	65,740	24.8
Leukemia204–208	1,790	8.1	1,640	7.5	15,430	7.7	15,560	7.9	20,210	7.6	20,230	7.6
Other malignant neoplasms of lymphatic and hematopoietic tissues200–203	2,790	12.7	3,330	15.3	26,760	13.4	26,580	13.4	35,390	13.3	35,740	13.5
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature210–239	580	2.6	550	2.5	5,740	2.9	5,870	3.0	7,520	2.8	7,840	3.0
Diabetes mellitus250	4,660	21.1	4,520	20.8	45,950	23.0	45,530	23.0	61,890	23.2	59,760	22.6
Nutritional deficiencies260–269	310	1.4	300	1.4	2,690	1.3	2,930	1.5	3,550	1.3	4,000	1.5
Anemias280–285	260	1.2	360	1.6	3,090	1.5	2,930	1.5	4,130	1.5	4,120	1.6
Meningitis320–322	40	*	60	*	440	0.2	450	0.2	570	0.2	590	0.2
Major cardiovascular diseases390–448	70,300	319.0	72,590	333.4	698,200	349.4	705,470	355.9	934,360	350.0	939,990	355.3
Diseases of heart390–398,402,404–429	54,260	246.2	55,350	254.2	536,960	268.7	547,290	276.1	718,810	269.2	728,640	275.4
Rheumatic fever and rheumatic heart disease390–398	290	1.3	280	1.3	3,380	1.7	3,760	1.9	4,480	1.7	4,790	1.8
Hypertensive heart disease402	2,070	9.4	2,200	10.1	19,940	10.0	19,910	10.0	26,050	9.8	25,940	9.8
Hypertensive heart and renal disease404	190	0.9	160	0.7	1,650	0.8	1,650	0.8	2,210	0.8	2,270	0.9
Ischemic heart disease410–414	34,750	157.7	36,070	165.7	344,660	172.5	354,510	178.9	463,160	173.5	472,760	178.7
Acute myocardial infarction410	15,830	71.8	16,340	75.0	154,620	77.4	160,540	81.0	207,970	77.9	213,950	80.9
Other acute and subacute forms of ischemic heart disease411	180	0.8	130	0.6	2,150	1.1	1,930	1.0	2,920	1.1	2,600	1.0
Angina pectoris413	60	*	30	*	480	0.2	540	0.3	620	0.2	730	0.3
Old myocardial infarction and other forms of chronic ischemic heart disease412,414	18,680	84.8	19,560	89.8	187,400	93.8	191,490	96.6	251,650	94.3	255,480	96.6
Other diseases of endocardium424	1,130	5.1	1,250	5.7	12,380	6.2	12,240	6.2	16,630	6.2	16,220	6.1
All other forms of heart disease415–423,425–429	15,840	71.9	15,400	70.7	154,950	77.5	155,230	78.3	206,290	77.3	206,670	78.1
Hypertension with or without renal disease401,403	840	3.8	1,020	4.7	9,650	4.8	8,930	4.5	12,910	4.8	11,960	4.5
Cerebrovascular diseases430–438	11,830	53.7	12,570	57.7	118,650	59.4	118,070	59.6	159,130	59.6	157,320	59.5
Intracerebral and other intracranial hemorrhage431–432	1,900	8.6	2,050	9.4	18,750	9.4	17,290	8.7	24,960	9.3	22,730	8.6
Cerebral thrombosis and unspecified occlusion of cerebral arteries434,0,434.9	870	3.9	1,000	4.6	9,020	4.5	9,030	4.6	12,440	4.7	12,380	4.7
Cerebral embolism434.1	30	*	50	*	390	0.2	450	0.2	740	0.3	640	0.2
All other and late effects of cerebrovascular diseases430,433,435–438	9,020	40.9	9,480	43.5	90,500	45.3	91,300	46.1	120,980	45.3	121,570	46.0

See footnotes at end of table.

Table 6. Provisional number of deaths and death rates for 72 selected causes, Human immunodeficiency virus infection, and Alzheimer's disease: United States, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997—Con.

[Data are provisional, estimated from a 10-percent sample of deaths. Rates on an annual basis per 100,000 estimated population. Because of 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 asterisks preceding cause-of-death categories, see [Technical notes](#)]

Cause of death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>)	September		January–September				12 months ending with September						
	1997		1996		1997		1996		1997		1996		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Major cardiovascular diseases—Con.													
Atherosclerosis	440	1,150	5.2	1,090	5.0	11,970	6.0	11,450	5.8	16,100	6.0	15,580	5.9
Other diseases of arteries, arterioles, and capillaries . . . . .	.441–448	2,230	10.1	2,550	11.7	20,960	10.5	19,730	10.0	27,410	10.3	26,490	10.0
Acute bronchitis and bronchiolitis . . . . .	.466	50	*	—	*	440	0.2	340	0.2	510	0.2	430	0.2
Pneumonia and influenza . . . . .	.480–487	5,060	23.0	5,360	24.6	63,380	31.7	60,860	30.7	84,070	31.5	80,370	30.4
Pneumonia . . . . .	.480–486	5,060	23.0	5,360	24.6	62,610	31.3	60,400	30.5	83,090	31.1	79,850	30.2
Influenza . . . . .	.487	—	*	—	*	770	0.4	450	0.2	980	0.4	520	0.2
Chronic obstructive pulmonary diseases and allied conditions . . . . .	.490–496	7,470	33.9	7,440	34.2	82,140	41.1	80,440	40.6	107,170	40.1	104,300	39.4
Bronchitis, chronic and unspecified . . . . .	.490–491	130	0.6	150	0.7	2,270	1.1	2,350	1.2	2,870	1.1	3,040	1.1
Emphysema . . . . .	.492	1,340	6.1	1,160	5.3	13,690	6.8	12,870	6.5	17,620	6.6	16,800	6.4
Asthma . . . . .	.493	280	1.3	410	1.9	3,920	2.0	3,870	1.9	5,210	2.0	5,140	1.9
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	.494–496	5,720	26.0	5,710	26.2	62,250	31.2	61,350	31.0	81,470	30.5	79,310	30.0
Ulcer of stomach and duodenum . . . . .	.531–533	330	1.5	370	1.7	3,720	1.9	3,710	1.9	4,790	1.8	5,120	1.9
Appendicitis . . . . .	.540–543	30	*	30	*	280	0.1	350	0.2	400	0.1	420	0.2
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	.550–553,560	470	2.1	530	2.4	4,630	2.3	4,760	2.4	6,320	2.4	6,020	2.3
Chronic liver disease and cirrhosis . . . . .	.571	2,060	9.3	1,900	8.7	18,870	9.4	18,100	9.1	25,230	9.4	24,080	9.1
Cholelithiasis and other disorders of gallbladder . . . . .	.574–575	240	1.1	210	1.0	2,040	1.0	2,030	1.0	2,690	1.0	2,730	1.0
Nephritis and nephrotic syndrome, and nephrosis . . . . .	.580–589	1,850	8.4	1,930	8.9	19,680	9.8	19,830	10.0	26,830	10.0	26,130	9.9
Acute glomerulonephritis and nephrotic syndrome . . . . .	.580–581	20	*	20	*	230	0.1	140	0.1	310	0.1	200	0.1
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	.582–583,587	130	0.6	180	0.8	1,200	0.6	1,300	0.7	1,690	0.6	1,740	0.7
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	.584–586,588–589	1,710	7.8	1,730	7.9	18,260	9.1	18,390	9.3	24,830	9.3	24,190	9.1
Infections of kidney . . . . .	.590	30	*	60	*	520	0.2	700	0.3	720	0.3	810	0.3
Hyperplasia of prostate . . . . .	.600	20	*	60	*	300	0.1	340	0.2	380	0.1	440	0.2
Complications of pregnancy, childbirth, and the puerperium . . . . .	.630–676	30	*	30	*	200	0.1	220	0.1	260	0.1	310	0.1
Pregnancy with abortive outcome . . . . .	.630–638	—	*	—	*	40	*	20	*	40	*	30	*
Other complications of pregnancy, childbirth, and the puerperium . . . . .	.640–676	30	*	30	*	160	0.1	200	0.1	220	0.1	280	0.1
Congenital anomalies . . . . .	.740–759	830	3.8	1,060	4.9	8,600	4.3	8,720	4.4	11,350	4.3	11,870	4.5
Certain conditions originating in the perinatal period . . . . .	.760–779	1,110	5.0	1,050	4.8	9,200	4.6	9,660	4.9	12,440	4.7	12,840	4.9
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	.767–769	180	0.8	130	0.6	1,470	0.7	1,500	0.8	2,120	0.8	2,000	0.8
Other conditions originating in the perinatal period . . . . .	.760–766,770–779	930	4.2	920	4.2	7,730	3.9	8,160	4.1	10,310	3.9	10,830	4.1
Symptoms, signs, and ill-defined conditions . . . . .	.780–799	3,660	16.6	3,360	15.4	35,050	17.5	31,310	15.8	45,510	17.0	42,350	16.0
All other diseases . . . . .	.Residual	17,230	78.2	16,380	75.2	172,070	86.1	163,010	82.2	228,100	85.4	217,650	82.3
Accidents and adverse effects . . . . .	.E800–E949	7,510	34.1	7,530	34.6	66,560	33.3	67,810	34.2	89,510	33.5	90,950	34.4
Motor vehicle accidents . . . . .	.E810–E825	3,750	17.0	3,730	17.1	31,910	16.0	32,110	16.2	43,490	16.3	43,920	16.6
All other accidents and adverse effects . . . . .	.E800–E807,E826–E949	3,760	17.1	3,800	17.4	34,650	17.3	35,690	18.0	46,020	17.2	47,030	17.8
Suicide . . . . .	.E950–E959	2,370	10.7	2,720	12.5	21,210	10.6	22,870	11.5	28,520	10.7	29,860	11.3
Homicide and legal intervention . . . . .	.E960–E978	1,540	7.0	1,910	8.8	14,140	7.1	15,700	7.9	19,330	7.2	21,460	8.1
All other external causes . . . . .	.E980–E999	280	1.3	240	1.1	1,790	0.9	1,820	0.9	2,290	0.9	2,350	0.9
Human immunodeficiency virus infection ²	*042–*044	1,190	5.4	2,150	9.9	12,500	6.3	24,930	12.6	18,810	7.0	35,050	13.2
Alzheimer's disease . . . . .	.331.0	1,710	7.8	1,680	7.7	17,190	8.6	16,280	8.2	22,840	8.6	21,750	8.2

– Quantity zero. * Figure does not meet standards of reliability or precision; see [Technical notes](#).
¹Includes data for deaths due to Human immunodeficiency virus infection (categories *042–*044) shown separately below; see [Technical notes](#).
²Included in All other infectious and parasitic diseases shown above.

NOTES: 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.

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, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997

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

Cause of death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>)	September				January–September				12 months ending with September			
	1997		1996		1997		1996		1997		1996	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues ¹140–208	43,450	197.1	46,250	212.4	398,810	199.5	406,180	204.9	534,960	200.4	539,660	204.0
Malignant neoplasm of esophagus150	960	4.4	880	4.0	8,220	4.1	8,240	4.2	11,130	4.2	10,650	4.0
Malignant neoplasm of stomach151	980	4.4	1,230	5.6	9,640	4.8	9,760	4.9	13,280	5.0	13,010	4.9
Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus153,154	4,390	19.9	4,670	21.4	40,800	20.4	42,590	21.5	55,460	20.8	56,550	21.4
Malignant neoplasm of pancreas157	2,100	9.5	2,270	10.4	20,250	10.1	20,550	10.4	27,300	10.2	27,500	10.4
Malignant neoplasms of trachea, bronchus, and lung162	12,360	56.1	13,280	61.0	113,150	56.6	114,940	58.0	151,960	56.9	152,330	57.6
Malignant melanoma of skin172	730	3.3	590	2.7	5,620	2.8	5,320	2.7	7,340	2.7	6,920	2.6
Malignant neoplasm of cervix uteri180	330	1.5	450	2.1	3,290	1.6	3,310	1.7	4,460	1.7	4,590	1.7
Malignant neoplasms of body of uterus and of uterus, part unspecified179,182	430	1.9	480	2.2	4,630	2.3	4,380	2.2	6,040	2.3	6,040	2.3
Malignant neoplasm of ovary183.0	1,160	5.3	1,140	5.2	10,380	5.2	10,180	5.1	13,710	5.1	13,690	5.2
Malignant neoplasm of prostate185	2,660	12.1	2,760	12.7	24,870	12.4	25,690	13.0	33,670	12.6	33,760	12.8
Malignant neoplasm of bladder188	980	4.4	870	4.0	9,050	4.5	8,430	4.3	11,880	4.4	11,240	4.2
Malignant neoplasms of kidney and other and unspecified urinary organs189	910	4.1	1,090	5.0	8,810	4.4	8,730	4.4	11,840	4.4	11,480	4.3
Malignant neoplasms of brain and other and unspecified parts of nervous system191,192	930	4.2	1,000	4.6	8,270	4.1	8,640	4.4	11,220	4.2	11,610	4.4
Hodgkin's disease201	130	0.6	90	*	1,100	0.5	1,130	0.6	1,430	0.5	1,490	0.6
Malignant lymphoma other than Hodgkin's disease200,202	2,020	9.2	2,280	10.5	18,080	9.0	17,530	8.8	23,720	8.9	23,710	9.0
Multiple myeloma and other immunoproliferative neoplasms203	640	2.9	970	4.5	7,580	3.8	7,910	4.0	10,230	3.8	10,540	4.0

* Figure does not meet standards of reliability or precision; see [Technical notes](#).

¹Includes figures for subcategories not shown below.

NOTES: 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.

Table 8. Provisional number of deaths and death rates for firearm mortality: United States, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997

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

Cause of death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>)	September				January–September				12 months ending with September			
	1997		1996		1997		1996		1997		1996	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Injury by firearmsE922,E955.0–E955.4,E965.0–965.4,E970,E985.0–E985.4	2,640	12.0	3,030	13.9	23,770	11.9	26,000	13.1	32,240	12.1	35,160	13.3
Accident caused by firearm missileE922	50	*	100	*	770	0.4	920	0.5	1,190	0.4	1,420	0.5
Suicide by firearmsE955.0–E955.4	1,460	6.6	1,580	7.2	12,730	6.4	13,920	7.0	17,140	6.4	18,190	6.9
Homicide and legal intervention by firearmsE965.0–E965.4,E970	1,100	5.0	1,330	6.1	10,090	5.0	10,980	5.5	13,690	5.1	15,300	5.8
Injury by firearms, undetermined whether accidentally or purposely inflictedE985.0–E985.4	30	*	30	*	190	0.1	180	0.1	220	0.1	250	0.1

* Figure does not meet standards of reliability or precision; see [Technical notes](#).

NOTES: 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.

Table 9. Provisional number of deaths under 1 year and infant mortality rates, by age and for 10 selected causes: United States, September 1996 and 1997, cumulative figures 1996 and 1997, and 12 months ending with September 1996 and 1997

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

Age and cause of death (Based on the <i>Ninth Revision, International Classification of Diseases, 1975</i>)	September				January–September				12 months ending with September			
	1997		1996		1997		1996		1997		1996	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total, under 1 year	2,300	684.6	2,400	706.7	20,200	699.4	21,100	726.6	27,200	704.5	28,300	734.3
Under 28 days	1,540	456.4	1,630	489.5	12,960	449.4	14,060	484.8	17,370	450.2	18,670	484.0
28 days–11 months	770	228.2	730	219.2	7,210	250.0	7,010	241.7	9,810	254.3	9,650	250.2
Certain gastrointestinal diseases	–	*	30	9.0	130	4.5	190	6.6	160	4.1	220	5.7
Pneumonia and influenza	20	*	10	*	170	5.9	240	8.3	260	6.7	340	8.8
Congenital anomalies	490	145.2	680	204.2	4,740	164.4	4,880	168.3	6,370	165.1	6,470	167.7
Disorders relating to short gestation and unspecified low birthweight	300	88.9	320	96.1	2,390	82.9	2,870	99.0	3,090	80.1	3,540	91.8
Birth trauma	20	*	–	*	80	*	140	4.8	110	2.9	230	6.0
Intrauterine hypoxia and birth asphyxia	50	*	–	*	370	12.8	390	13.4	510	13.2	480	12.4
Respiratory distress syndrome	100	*	130	39.0	930	32.3	940	32.4	1,380	35.8	1,220	31.6
Other conditions originating in the perinatal period	620	183.7	590	177.2	5,230	181.4	5,230	180.3	7,100	184.0	7,230	187.4
Sudden infant death syndrome	160	47.4	180	54.1	1,450	50.3	1,980	68.3	2,090	54.2	2,700	70.0
All other causes	550	163.0	420	126.1	4,670	161.9	4,220	145.5	6,110	158.4	5,900	153.0

– Quantity zero.

* Figure does not meet standards of reliability or precision; see [Technical notes](#).

NOTES: 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.

Technical notes

Nature and sources of data

Data in this report are provisional unless otherwise specified and include only events occurring within the United States (50 States and the District of Columbia). Mortality data exclude fetal deaths. Data for the Commonwealth of Puerto Rico are not included in the U.S. totals.

Birth, death, and infant death figures 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 figures and final State residence figures for the three most recent years for which final data were available and are 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. 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 California in [tables 2](#) and [4](#) contain adjustments for varying lengths of State reporting periods. Figures for Texas for all events shown in [tables 2–4](#) also are adjusted for varying lengths of State reporting 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 are included in the U.S. totals shown elsewhere in this report.

U.S. totals for births, deaths, and infant deaths are based on the State estimates by State of residence 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. 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), 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

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

covers the “true” number of events.

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

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, 1992, 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. Rates shown in this report beginning with 1992 were computed using populations based on the 1990 Census enumeration comparable to those used for final data. Monthly rates are based on populations estimated for the specific month. Year-to-date rates are averages of monthly rates that have been weighted by the number of days in the corresponding months. 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 deaths under 1 year of age for the specified period (monthly, year-to-date, or 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 earlier in “[Nature and sources of data.](#)” Because monthly infant mortality rates are based on relatively few events, they are highly variable. Therefore, comparisons of monthly infant mortality rates should be interpreted cautiously; see “[Random variation.](#)”

Age-adjusted death rates are used to compare relative mortality risks across groups and over time. However, they should be viewed as constructs or indexes rather than as direct or actual measures of mortality risk. Statistically, they are weighted averages of the age-specific death rates, where the weights represent the fixed population proportions by age. See chapter 5 of an earlier report (1). The age-adjusted death rates presented in this report were computed by the direct method, that is, by applying age-specific death rates to the U.S. standard million population (2). See also chapter 10 of an earlier report (1). Age groups in [table 5](#) were used to compute the age-adjusted

rates shown in that table. It is important not to compare age-adjusted 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 for the United States by age, race, sex, and cause are estimated 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 sometimes is not available when the sample is drawn. As a result estimates based on sample counts for certain causes are biased. Correction for bias is not made in this report.

Estimated numbers of deaths 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, the National Center for Health Statistics introduced categories *042–*044 for classifying and coding Human immunodeficiency virus (HIV) infection. The asterisks before the categories indicate that these codes are not part of the

Ninth Revision, International Classification of Diseases. Deaths classified to these categories are included in All other infectious and parasitic diseases in the List of 72 Selected Causes of Death and are also shown separately at the bottom of table 6.

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 in the following table is a measure of the

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

Estimated number of deaths	Relative standard error of estimate (as percent)	
	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

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 fall between the two.

The chances are about 2 in 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 in 20 that the percent difference is less than twice the percent shown. A figure based on 100 or fewer estimated deaths has a relative standard error of 30 percent or more and is, therefore, considered unreliable. A rate based on 100 or fewer estimated deaths has been replaced by an asterisk.

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.

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National Center for Health Statistics

Director
Edward J. Sondik, Ph.D.

Deputy Director
Jack R. Anderson

Division of Vital Statistics

Director
Mary Anne Freedman

U.S. DEPARTMENT OF
HEALTH & HUMAN SERVICES

Centers for Disease Control and Prevention
National Center for Health Statistics
6525 Belcrest Road
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