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Life Tables

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Guide to tables in Section 5

	Table: 5	-1	-2	-3	-4	-5
	Page: 5	-8	-11	-12	-13	-15
Years:						
1900-1978						5[1]
1978 only		1	2	3		
Specified years and 1978					4[2]	
Type of entry:						
Proportion of dying ($_nq_x$)		1				
Number surviving (l_x)		1	2		4	
Number dying ($_nd_x$)		1				
Stationary population ($_nL_x$ and T_x)		1				
Average remaining lifetime ($\mathring{e}_x$)		1		3	4	
Average length of life ($\mathring{e}_0$)						5
Characteristics:						
Age by:						
Single years			2	3		
5-year intervals		1			4	
Sex-color specific		1	2	3	4	5
Sex specific		1	2	3		5
Color specific		1	2	3		5
Total population		1	2	3		5

[1]Entire United States for 1929-78; death-registration States for 1900-1928.
[2]Entire United States for specified years from 1929 to 1978; death-registration States for specified years from 1900 to 1921.

Section 5. Life tables

SECTION 5. LIFE TABLES

The mortality rates for a specific period may be summarized by the life table method to obtain measures of comparative longevity. There are two types of life tables—the generation or cohort life table and the current life table. The generation life table provides a "longitudinal" perspective in that it follows the mortality experience of a particular cohort, all persons born in the year 1900 for example, from the moment of birth through consecutive ages in successive calendar years. Based on age-specific death rates observed during consecutive calendar years, the generation life table reflects the mortality experience of a cohort from birth until no lives remain in the group.

The better known current life table may, by contrast, be characterized as "cross-sectional." Unlike the generation life table, the current life table does not represent the mortality experience of an actual cohort. Rather, the current life table considers a hypothetical cohort and assumes that it is subject to the age-specific mortality rates observed for an actual population during a particular period. Thus, for example, a current life table for 1978 assumes a hypothetical cohort subject throughout its lifetime to the age-specific mortality rates prevailing for the actual population in 1978. The current life table may thus be characterized as rendering a "snapshot" of current mortality experience. In this section the term "life table" refers to the current life table only and not to the generation life table.

The life table program

There are three series of life tables prepared in the National Center for Health Statistics—complete, provisional abridged, and final abridged life tables. The complete life tables for the U.S. population contain life table values for single years of age and are based on decennial census data and deaths for a 3-year period about the census year and have been prepared since 1900. The provisional abridged life tables contain values by age groups and are based on a 10-percent sample of deaths. The final abridged life tables (referred to in this section as " abridged life tables") also contain values by age groups but are based on a complete count of all reported deaths.

In response to a growing number of requests for postcensal life table values, a series of abridged life tables was initiated in 1945. Available annually since that year, the abridged life tables are based on deaths occurring during the calendar year and on midyear postcensal population estimates provided by the U.S. Bureau of the Census. Refinements in both the techniques for estimating population and the methods for constructing abridged life tables permit the preparation of abridged life tables which provide reasonably accurate data on current trends in expectation of life and survivorship. Beginning with 1945 abridged life tables have been constructed by reference to a standard table.[1] Methodology developed by Greville was used in constructing life tables for 1945 to 1952. Since 1953 a modified method has been employed.[2] U.S. life tables for the decennial period 1969-71 are used as the standard table in constructing the 1978 abridged life tables.

The 1945 abridged life tables were prepared for white and all other males and females. Since 1946 abridged life tables for the total population have also been available, and since 1948 abridged life tables have been calculated for total males and total females, regardless of color. Starting with 1951 additional abridged life tables have been calculated for the total white and "all other" population, regardless of sex.

Numerous requests have been received annually for current life table statistics that are more detailed than those available in the abridged life tables. Therefore tables showing l_x and $\mathring{e}_x$ values by single years of age interpolated from the abridged life tables have been published since 1960.

The demand for information regarding up-to-date life table values has been responsible for the introduction of a third series, provisional abridged life tables. Starting with 1958 provisional abridged life tables have been published, for the total population only, in the "Annual Summary for the United States," *Monthly Vital Statistics Report.* Values in these life tables are based on population estimates provided by

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[1]National Office of Vital Statistics: Method of constructing the abridged life tables for the United States, 1949, by T. N. E. Greville. *Vital Statistics-Special Reports,* Vol. 33, No. 15. Public Health Service. Washington, D.C., 1953.

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

the Bureau of the Census and on the estimated number of deaths derived from the "Current Mortality Sample" (CMS). The CMS consists of one-tenth of the death certificates filed in the vital statistics registration offices (50 States and the cities of Washington, D.C., and New York). The sample is taken by selecting 1 certificate out of every 10 death certificates received between two dates a month apart.

Life table values

The data used to prepare the abridged U.S. life tables for 1978 are the final mortality statistics and the midyear estimates of the population by age, color, and sex, prepared by the U.S. Bureau of the Census. Selected life table values for 1900-1902, 1959-61, 1969-71, and 1978 are shown in tables 5-A and 5-B.

Expectation of life.—The most frequently used life table statistic is the expectation of life ($\mathring{e}_x$), i.e., the average remaining lifetime in years for persons who have attained a given age (x). Expectation of life and other life table values at specified ages in 1978 are shown for the total population and by color and sex in table 5-1. In addition, expectations of life at single years of age, by color and sex, are shown in table 5-3.

Life expectancy at birth for 1978 for the total population was 73.3 years, which represents the average number of years that the members of the life table cohort may expect to live at the time of birth (table 5-A).

Survivors to specified ages.—Another way of assessing longevity of the life table cohort is by determining the proportion of it that survives to specified ages. The l_x column provides the data for computing the proportion. For instance, for the total population, 75,902 out of the original life table cohort of 100,000 (or 75.9 percent) were alive at exact age 65 in 1978 (table 5-B).

Median length of life.—In addition to determining the proportion alive at a specified age, one can also compute the median age at death, the age at which exactly half the cohort (50,000 persons) still remain alive and half have died. For example, in 1978 the

Table 5-A. Expectation of life at selected ages, by color and sex: Death-registration States, 1900-1902, and United States, 1959-61, 1969-71, and 1978

Life table value and age	Total	White		All other	
		Male	Female	Male	Female
Expectation of life:					
At birth					
1978	73.3	70.2	77.8	65.0	73.6
1969-71	70.75	67.94	75.49	60.98	69.05
1959-61	69.89	67.55	74.19	61.48	66.47
1900-1902[1]	49.24	48.23	51.08	32.54	35.04
At age 1 year					
1978	73.3	70.1	77.6	65.5	74.0
1969-71	71.19	68.33	75.66	62.13	70.01
1959-61	70.75	68.34	74.68	63.50	68.10
1900-1902[1]	55.20	54.61	56.39	42.46	43.54
At age 20 years					
1978	55.0	52.0	59.1	47.4	55.6
1969-71	53.00	50.22	57.24	44.37	51.85
1959-61	52.58	50.25	56.29	45.78	50.07
1900-1902[1]	42.79	42.19	43.77	35.11	36.89
At age 65 years					
1978	16.3	14.0	18.4	14.1	18.0
1969-71	15.00	13.02	16.93	12.87	15.99
1959-61	14.39	12.97	15.88	12.84	15.12
1900-1902[1]	11.86	11.51	12.23	10.38	11.38

[1]For 1900-1902 figures for "All other male" and "All other female" include only the black population, which comprised 95 percent or more of the "All other" population.

Table 5-B. Percent surviving from birth to selected ages, and median age at death, by color and sex: Death-registration States, 1900-1902, and United States, 1959-61, 1969-71, and 1978

Life table value and age	Total	White		All other	
		Male	Female	Male	Female
Percent surviving from birth:					
To age 1 year					
1978	98.6	98.7	98.9	97.7	98.1
1969-71	98.0	98.0	98.5	96.6	97.2
1959-61	97.4	97.4	98.0	95.3	96.2
1900-1902[1]	87.6	86.7	88.9	74.7	78.5
To age 20 years					
1978	97.5	97.3	98.2	96.1	97.2
1969-71	96.7	96.5	97.6	94.3	95.9
1959-61	96.1	95.9	97.1	93.1	94.7
1900-1902[1]	77.2	76.4	79.0	56.7	59.1
To age 65 years					
1978	75.9	71.1	83.9	56.4	73.4
1969-71	71.9	66.3	81.6	49.6	66.1
1959-61	71.1	65.8	80.7	51.4	60.8
1900-1902[1]	40.9	39.2	43.8	19.0	22.0
Median age at death:					
1978	76.9	73.7	81.2	68.3	76.3
1969-71	74.9	71.5	79.5	64.8	72.8
1959-61	74.3	71.4	78.5	65.6	70.6
1900-1902[1]	58.4	57.2	60.6	29.8	34.3

[1]For 1900-1902 figures for "All other male" and "All other female" include only the black population, which comprised 95 percent or more of the "All other" population.

median age at death for the total population was 76.9 years (table 5-B).

Trends and comparisons

In 1978 among the four color-sex groups, white females had the highest life expectancy at birth (77.8 years), followed by females other than white (73.6 years), white males (70.2 years), and males other than white (65.0 years) (table 5-A). This same rank order was maintained by the color-sex groups for the expectation of life at ages 1, 20, and 65 years, except that the expectation of life for males other than white at age 65 (14.1 years) was greater than that for white males (14.0 years).

Trends in the expectation of life are shown in tables 5-A, 5-4, and 5-5. Table 5-4 shows the expectation of life and the number of cohort survivors at specified ages for the four color-sex groups around the census years since 1900 and for 1978. Table 5-5 shows expectations of life at birth for single calendar years since 1900. Many of the figures shown in this table were estimated (see Technical Appendix).

Between 1969-71 and 1978 the increase in years in the life expectancy at birth for each of the four color-sex groups was greater than the corresponding change between 1959-61 and 1969-71. Among the color-sex groups, females other than white had the greatest increase (4.6 years) between 1969-71 and 1978, followed by males other than white, white males, and white females. For the four color-sex groups, the change in the life expectancy at birth (in years) based on life expectancies rounded to one decimal place was as follows:

Period	White		All other	
	Male	Female	Male	Female
1969-71 to 1978	2.3	2.3	4.0	4.6
1959-61 to 1969-71	0.4	1.3	-0.5	2.6

For 1978 the percent surviving from birth to age 65 years was greatest for white females (83.9 percent), followed by females other than white (73.4 percent), white males (71.1 percent), and males other than white (56.4 percent) (table 5-B).

Between 1969-71 and 1978 the increase in the percent surviving to age 65 years for each of the four color-sex groups was greater than the corresponding change between 1959-61 and 1969-71. Among the color-sex groups, females other than white had the greatest increase (7.3 percentage points) between 1969-71 and 1978, followed by males other than white, white males, and white females. The change in the percent surviving to age 65 years was as follows:

Period	White		All other	
	Male	Female	Male	Female
1969-71 to 1978	4.8	2.3	6.8	7.3
1959-61 to 1969-71	0.5	0.9	-1.8	5.3

For 1978 white females had the highest median age at death (81.2 years), followed by females other than white (76.3 years), white males (73.7 years), and males other than white (68.3 years) (table 5-B).

The increase in the median age at death for each of the four color-sex groups was greater between 1969-71 and 1978 than the corresponding change in median age between 1959-61 and 1969-71. Among the color-sex groups, males other than white and females other than white had the greatest increase (3.5 years) between 1969-71 and 1978, followed by white males and white females. The increase in the median age at death (in years) was as follows:

Period	White		All other	
	Male	Female	Male	Female
1969-71 to 1978	2.2	1.7	3.5	3.5
1959-61 to 1969-71	0.1	1.0	-0.8	2.2

Technical appendix

The geographic areas covered in life tables prior to 1929-31 were limited to the death-registration areas. Life tables for 1900-1902 and 1909-11 were constructed using mortality data from the 1900 death-registration States—10 States and the District of Columbia—and for 1919-21 from the 1920 death-registration States—34 States and the District of Columbia. The tables for 1929-31 through 1958 cover the conterminous United States. Decennial life table values for the 3-year period 1959-61 were derived from data which include both Alaska and Hawaii for each year (table 5-4). Data for each year shown in table 5-5 include Alaska beginning in 1959 and Hawaii beginning in 1960. However, it is not believed that the inclusion of these two States materially affects life table values.

Revised life table values, 1961-73.—Life table values for 1961-69 are based on revised intercensal estimates of the populations for those years and were constructed using the 1959-61 U.S. decennial life tables as the standard tables. Life table values for 1970-73 have been revised by using the 1969-71 decennial life tables as the standard tables. Previous abridged life tables for 1970-73 were constructed using the 1959-61 decennial life tables as the standard tables because the 1969-71 decennial life tables were not yet available.

New Jersey data, 1962-64.—The life tables for 1962 and 1963 for the six population groups involving color do not include data from the State of New Jersey. This State omitted the item on color or race from its certificates of live birth, death, and fetal death in use at the beginning of 1962. The item was restored during the latter part of 1962. However, the certificate revision without this item was used for most of 1962 as well as for 1963. For computing vital rates, populations by age, color, and sex excluding New Jersey were estimated to obtain comparable denominators. Approximately 7 percent of the New Jersey death records for 1964 did not contain the race designation; when the records were being electronically processed, the "race not stated" deaths were allocated to white or black.

Nonresidents.—Beginning in 1970 the deaths of nonresidents of the United States have been excluded from the life table statistics.

Estimates for single calendar years.—There has been an increasing interest in data on average length of life ($\mathring{e}_x$) for single calendar years prior to the initiation of the annual abridged life table series in 1945. The figures in table 5-5 for the following years, and color and sex groups were estimated to meet these needs.[3]

Years	*Color and sex groups*	*Years*	*Color and sex groups*
1900-1945	Total	1900-1944	White female
1900-1947	Male	1900-1950	All other
1900-1947	Female	1900-1944	All other male
1900-1950	White	1900-1944	All other female
1900-1944	White male		

[3]For estimating procedure, see National Office of Vital Statistics, "Estimated Average Length of Life in the Death-Registration States," by T. N. E. Greville and G. A. Carlson. *Vital Statistics-Special Reports*, Vol. 33, No. 9. Public Health Service. Washington, D.C., 1951.

Explanation of the Columns of the Life Table

Column 1—Age interval (x to $x + n$).—The age interval shown in column 1 is the interval between the two exact ages indicated. For instance, "20-25" means the 5-year interval between the 20th birthday and the 25th.

Column 2—Proportion dying ($_nq_x$).—This column shows the proportion of the cohort who are alive at the beginning of an indicated age interval and who will die before reaching the end of that age interval. For example, for males in the age interval 20-25, the proportion dying is 0.0101—out of every 1,000 males alive and exactly 20 years old at the beginning of the period about 10 will die before reaching their 25th birthday. In other words, the $_nq_x$ values represent *probabilities* that persons who are alive at the beginning of a specific age interval will die before reaching the beginning of the next age interval. The "proportion dying" column forms the basis of the life table; the life table is so constructed that all other columns are derived from it.

Column 3—Number surviving (l_x).—This column shows the number of persons, starting with a cohort of 100,000 live births, who survive to the exact age marking the beginning of each age interval. The l_x values are computed from the $_nq_x$ values, which are successively applied to the remainder of the original 100,000 persons still alive at the beginning of each age interval. Thus out of 100,000 male babies born alive, 98,473 will complete the first year of life and enter the second; 98,169 will begin the sixth year; 97,051 will reach age 20; and 16,462 will live to age 85.

Column 4—Number dying ($_nd_x$).—This column shows the number dying in each successive age interval out of 100,000 live births. Out of 100,000 males born alive, 1,527 die in the first year of life, 304 in the succeeding 4 years, 982 in the 5-year period between exact ages 20 and 25, and 16,462 die after reaching age 85. Each figure in column 4 is the difference between two successive figures in column 3.

Columns 5 and 6—Stationary population ($_nL_x$ and T_x).—Suppose that a group of 100,000 individuals like that assumed in columns 3 and 4 is born every year and that the proportions dying in each such group in each age interval throughout the lives of the members are exactly those shown in column 2. If there were no migration and if the births were evenly distributed over the calendar year, the survivors of these births would make up what is called a stationary population—stationary because in such a population the number of persons living in any given age group would never change. When an individual left the group, either by death or by growing older and entering the next higher age group, his place would immediately be taken by someone entering from the next lower age group. Thus a census taken at any time in such a stationary community would always show the same total population and the same numerical distribution of that population among the various age groups. In such a stationary population supported by 100,000 annual births, column 3 shows the number of persons who, each year, reach the birthday which marks the beginning of the age interval indicated in column 1, and column 4 shows the number of persons who die each year in the indicated age interval.

Column 5 shows the number of persons in the stationary population in the indicated age interval. For example, the figure given for males in the age interval 20-25 is 482,830. This means that in a stationary population of males supported by 100,000 annual births and with proportions dying in each age group always in accordance with column 2, a census taken on any date would show 482,830 persons between exact ages 20 and 25.

Column 6 shows the total number of persons in the stationary population (column 5) in the indicated age interval and all subsequent age intervals. For example, in the stationary population of males referred to in the last illustration, column 6 shows that there would be at any given moment a total of 4,991,021 persons who have passed their 20th birthday. The male population at all ages 0 and above (in other words, the total male population of the stationary community) would be 6,949,897.

Column 7—Average remaining lifetime ($\mathring{e}_x$).—The average remaining lifetime (also called expectation of life) at any given age is the average number of years remaining to be lived by those surviving to that age on the basis of a given set of age-specific rates of dying. In order to arrive at this value, it is first necessary to observe that the figures in column 5 of the life table can also be interpreted in terms of a single life table cohort without introducing the concept of the stationary population. From this point of view, each figure in column 5 represents the total time (in years) lived between two indicated birthdays by all those reaching the earlier birthday among the survivors of a cohort of 100,000 live births. Thus the figure 482,830 for males in the age interval 20-25 is the

total number of years lived between the 20th and 25th birthdays by the 97,051 (column 3) who reached the 20th birthday out of 100,000 males born alive. The corresponding figure (4,991,021) in column 6 is the total number of years lived after attaining age 20 by the 97,051 reaching that age. This number of years divided by the number of persons (4,991,021 divided by 97,051) gives 51.4 years as the average remaining lifetime of males at age 20.

Care must be exercised in drawing conclusions from the figures in column 7. Thus in observing that the average remaining lifetime of white persons is greater than for those in the all other category, one should not conclude that the oldest ages reached by white persons necessarily exceed those attained by the most long-lived of the all other group. The difference in the average length of life results from the fact that a greater proportion of all other persons die before reaching old age. For example, the number surviving to age 65 out of 100,000 born alive is far greater among white persons than among all other persons; yet the average length of life remaining at age 65 is nearly the same for both groups.

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1978

AGE INTERVAL	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL	NUMBER LIVING AT BEGINNING OF AGE INTERVAL	NUMBER DYING DURING AGE INTERVAL	IN THE AGE INTERVAL	IN THIS AND ALL SUBSEQUENT AGE INTERVALS	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x+n$	${}_nq_x$	l_x	${}_nd_x$	${}_nL_x$	T_x	$\mathring{e}_x$
TOTAL						
0-1	0.0138	100,000	1,379	98,796	7,330,600	73.3
1-5	.0027	98,621	270	393,856	7,231,804	73.3
5-10	.0017	98,351	165	491,312	6,837,948	69.5
10-15	.0017	98,186	169	490,573	6,346,636	64.6
15-20	.0051	98,017	496	488,960	5,856,063	59.7
20-25	.0067	97,521	656	485,986	5,367,103	55.0
25-30	.0066	96,865	636	482,735	4,881,117	50.4
30-35	.0070	96,229	672	479,538	4,398,382	45.7
35-40	.0094	95,557	900	475,679	3,918,844	41.0
40-45	.0147	94,657	1,389	470,041	3,443,165	36.4
45-50	.0233	93,268	2,177	461,238	2,973,124	31.9
50-55	.0366	91,091	3,330	447,647	2,511,886	27.6
55-60	.0545	87,761	4,780	427,499	2,064,239	23.5
60-65	.0853	82,981	7,079	398,024	1,636,740	19.7
65-70	.1165	75,902	8,846	358,257	1,238,716	16.3
70-75	.1739	67,056	11,659	307,056	880,459	13.1
75-80	.2629	55,397	14,565	241,082	573,403	10.4
80-85	.3659	40,832	14,941	166,202	332,321	8.1
85 AND OVER	1.0000	25,891	25,891	166,119	166,119	6.4
MALE						
0-1	0.0153	100,000	1,527	98,665	6,949,897	69.5
1-5	.0031	98,473	304	393,193	6,851,232	69.6
5-10	.0019	98,169	191	490,336	6,458,039	65.8
10-15	.0022	97,978	214	489,458	5,967,703	60.9
15-20	.0073	97,764	713	487,224	5,478,245	56.0
20-25	.0101	97,051	982	482,830	4,991,021	51.4
25-30	.0096	96,069	919	478,010	4,508,191	46.9
30-35	.0096	95,150	916	473,539	4,030,181	42.4
35-40	.0126	94,234	1,189	468,380	3,556,642	37.7
40-45	.0189	93,045	1,762	461,112	3,088,262	33.2
45-50	.0300	91,283	2,740	450,708	2,627,150	28.8
50-55	.0480	88,543	4,254	432,769	2,177,142	24.6
55-60	.0721	84,289	6,076	407,074	1,744,373	20.7
60-65	.1143	78,213	8,936	369,643	1,337,299	17.1
65-70	.1590	69,277	11,018	319,603	967,656	14.0
70-75	.2324	58,259	13,539	257,893	648,053	11.1
75-80	.3354	44,720	14,999	185,712	390,160	8.7
80-85	.4461	29,721	13,259	114,046	204,448	6.9
85 AND OVER	1.0000	16,462	16,462	90,402	90,402	5.5
FEMALE						
0-1	0.0122	100,000	1,224	98,934	7,718,382	77.2
1-5	.0024	98,776	234	394,554	7,619,448	77.1
5-10	.0014	98,542	137	492,339	7,224,894	73.3
10-15	.0012	98,405	121	491,753	6,732,555	68.4
15-20	.0028	98,284	272	490,787	6,240,802	63.5
20-25	.0033	98,012	328	489,254	5,750,015	58.7
25-30	.0036	97,684	355	487,562	5,260,761	53.9
30-35	.0044	97,329	428	485,642	4,773,199	49.0
35-40	.0064	96,901	617	483,068	4,287,557	44.2
40-45	.0106	96,284	1,022	479,030	3,804,489	39.5
45-50	.0169	95,262	1,615	472,510	3,325,459	34.9
50-55	.0258	93,647	2,413	462,545	2,852,949	30.5
55-60	.0381	91,234	3,475	447,939	2,390,404	26.2
60-65	.0591	87,759	5,187	426,535	1,942,465	22.1
65-70	.0813	82,572	6,710	397,033	1,515,930	18.4
70-75	.1284	75,862	9,741	356,263	1,118,897	14.7
75-80	.2125	66,121	14,051	296,800	762,634	11.5
80-85	.3178	52,070	16,546	219,198	465,834	8.9
85 AND OVER	1.0000	35,524	35,524	246,636	246,636	6.9

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1978—Con.

AGE INTERVAL	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL	NUMBER LIVING AT BEGINNING OF AGE INTERVAL	NUMBER DYING DURING AGE INTERVAL	IN THE AGE INTERVAL	IN THIS AND ALL SUBSEQUENT AGE INTERVALS	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x+n$	${}_nq_x$	l_x	${}_nd_x$	${}_nL_x$	T_x	$\mathring{e}_x$
WHITE						
0-1	0.0120	100,000	1,201	98,946	7,395,375	74.0
1-5	.0025	98,799	245	394,633	7,296,429	73.9
5-10	.0016	98,554	156	492,353	6,901,796	70.0
10-15	.0016	98,398	162	491,648	6,409,443	65.1
15-20	.0051	98,236	502	490,032	5,917,795	60.2
20-25	.0063	97,734	616	487,135	5,427,763	55.5
25-30	.0058	97,118	561	484,178	4,940,628	50.9
30-35	.0060	96,557	582	481,392	4,456,450	46.2
35-40	.0080	95,975	772	478,082	3,975,058	41.4
40-45	.0128	95,203	1,214	473,204	3,496,976	36.7
45-50	.0212	93,989	1,995	465,297	3,023,772	32.2
50-55	.0337	91,994	3,102	452,735	2,558,475	27.8
55-60	.0511	88,892	4,545	433,750	2,105,740	23.7
60-65	.0817	84,347	6,890	405,342	1,671,990	19.8
65-70	.1143	77,457	8,856	366,074	1,266,648	16.4
70-75	.1695	68,601	11,630	314,950	900,574	13.1
75-80	.2580	56,971	14,699	248,730	585,624	10.3
80-85	.3702	42,272	15,648	171,651	336,894	8.0
85 AND OVER	1.0000	26,624	26,624	165,243	165,243	6.2
WHITE, MALE						
0-1	0.0134	100,000	1,337	98,825	7,019,639	70.2
1-5	.0028	98,663	280	394,014	6,920,814	70.1
5-10	.0018	98,383	179	491,440	6,526,800	66.3
10-15	.0021	98,204	206	490,604	6,035,360	61.5
15-20	.0074	97,998	723	488,360	5,544,756	56.6
20-25	.0095	97,275	925	484,072	5,056,396	52.0
25-30	.0084	96,350	806	479,688	4,572,324	47.5
30-35	.0082	95,544	787	475,820	4,092,636	42.8
35-40	.0107	94,757	1,014	471,426	3,616,816	38.2
40-45	.0163	93,743	1,527	465,182	3,145,390	33.6
45-50	.0274	92,216	2,523	455,217	2,680,208	29.1
50-55	.0445	89,693	3,990	439,187	2,224,991	24.8
55-60	.0681	85,703	5,837	414,767	1,785,804	20.8
60-65	.1101	79,866	8,793	378,308	1,371,037	17.2
65-70	.1572	71,073	11,171	328,269	992,729	14.0
70-75	.2294	59,902	13,744	265,672	664,460	11.1
75-80	.3330	46,158	15,372	192,039	398,788	8.6
80-85	.4528	30,786	13,939	117,620	206,749	6.7
85 AND OVER	1.0000	16,847	16,847	89,129	89,129	5.3
WHITE, FEMALE						
0-1	0.0106	100,000	1,058	99,072	7,779,221	77.8
1-5	.0021	98,942	209	395,283	7,680,149	77.6
5-10	.0013	98,733	130	493,314	7,284,866	73.8
10-15	.0012	98,603	117	492,749	6,791,552	68.9
15-20	.0028	98,486	272	491,793	6,298,803	64.0
20-25	.0031	98,214	301	490,325	5,807,010	59.1
25-30	.0031	97,913	308	488,818	5,316,685	54.3
30-35	.0038	97,605	372	487,151	4,827,867	49.5
35-40	.0055	97,233	530	484,938	4,340,716	44.6
40-45	.0093	96,703	899	481,430	3,855,778	39.9
45-50	.0153	95,804	1,462	475,598	3,374,348	35.2
50-55	.0235	94,342	2,214	466,511	2,898,750	30.7
55-60	.0352	92,128	3,246	452,973	2,432,239	26.4
60-65	.0557	88,882	4,953	432,730	1,979,266	22.3
65-70	.0785	83,929	6,589	404,187	1,546,536	18.4
70-75	.1232	77,340	9,530	364,287	1,142,349	14.8
75-80	.2062	67,810	13,980	305,546	778,062	11.5
80-85	.3208	53,830	17,269	226,259	472,516	8.8
85 AND OVER	1.0000	36,561	36,561	246,257	246,257	6.7

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1978—Con.

AGE INTERVAL	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL	NUMBER LIVING AT BEGINNING OF AGE INTERVAL	NUMBER DYING DURING AGE INTERVAL	IN THE AGE INTERVAL	IN THIS AND ALL SUBSEQUENT AGE INTERVALS	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x+n$	${}_nq_x$	l_x	${}_nd_x$	${}_nL_x$	T_x	$\mathring{e}_x$
ALL OTHER						
0-1	0.0212	100,000	2,115	98,178	6,923,402	69.2
1-5	.0038	97,885	377	390,638	6,825,224	69.7
5-10	.0022	97,508	210	486,963	6,434,586	66.0
10-15	.0021	97,298	200	486,067	5,947,623	61.1
15-20	.0048	97,098	469	484,461	5,461,556	56.2
20-25	.0092	96,629	890	481,028	4,977,095	51.5
25-30	.0116	95,739	1,115	475,964	4,496,067	47.0
30-35	.0135	94,624	1,274	470,076	4,020,103	42.5
35-40	.0189	93,350	1,767	462,557	3,550,027	38.0
40-45	.0278	91,583	2,544	451,853	3,087,470	33.7
45-50	.0383	89,039	3,414	437,034	2,635,617	29.6
50-55	.0592	85,625	5,073	415,948	2,198,583	25.7
55-60	.0834	80,552	6,716	386,533	1,782,635	22.1
60-65	.1196	73,836	8,834	347,716	1,396,102	18.9
65-70	.1347	65,002	8,754	303,538	1,048,386	16.1
70-75	.2186	56,248	12,298	250,712	744,848	13.2
75-80	.3175	43,950	13,953	184,120	494,136	11.2
80-85	.3175	29,997	9,523	125,313	310,016	10.3
85 AND OVER	1.0000	20,474	20,474	184,703	184,703	9.0
ALL OTHER, MALE						
0-1	0.0233	100,000	2,325	97,990	6,498,841	65.0
1-5	.0042	97,675	410	389,731	6,400,851	65.5
5-10	.0026	97,265	251	485,643	6,011,120	61.8
10-15	.0027	97,014	259	484,544	5,525,477	57.0
15-20	.0069	96,755	664	482,342	5,040,933	52.1
20-25	.0139	96,091	1,337	477,287	4,558,591	47.4
25-30	.0177	94,754	1,678	469,603	4,081,304	43.1
30-35	.0200	93,076	1,858	460,889	3,611,701	38.8
35-40	.0271	91,218	2,473	450,181	3,150,812	34.5
40-45	.0385	88,745	3,418	435,533	2,700,631	30.4
45-50	.0499	85,327	4,259	416,409	2,265,098	26.5
50-55	.0777	81,068	6,295	390,181	1,848,689	22.8
55-60	.1075	74,773	8,041	354,310	1,458,508	19.5
60-65	.1545	66,732	10,308	308,386	1,104,198	16.5
65-70	.1746	56,424	9,850	257,749	795,812	14.1
70-75	.2612	46,574	12,166	202,363	538,063	11.6
75-80	.3567	34,408	12,272	140,249	335,700	9.8
80-85	.3781	22,136	8,370	88,614	195,451	8.8
85 AND OVER	1.0000	13,766	13,766	106,837	106,837	7.8
ALL OTHER, FEMALE						
0-1	0.0190	100,000	1,899	98,372	7,356,333	73.6
1-5	.0035	98,101	342	391,574	7,257,961	74.0
5-10	.0017	97,759	169	488,325	6,866,387	70.2
10-15	.0014	97,590	140	487,638	6,378,062	65.4
15-20	.0028	97,450	274	486,635	5,890,424	60.4
20-25	.0049	97,176	474	484,756	5,403,789	55.6
25-30	.0064	96,702	622	482,031	4,919,033	50.9
30-35	.0080	96,080	766	478,609	4,437,002	46.2
35-40	.0122	95,314	1,161	473,844	3,958,393	41.5
40-45	.0189	94,153	1,779	466,549	3,484,549	37.0
45-50	.0282	92,374	2,604	455,668	3,018,000	32.7
50-55	.0431	89,770	3,866	439,592	2,562,332	28.5
55-60	.0618	85,904	5,312	416,770	2,122,740	24.7
60-65	.0895	80,592	7,211	385,637	1,705,970	21.2
65-70	.1024	73,381	7,514	348,644	1,320,333	18.0
70-75	.1823	65,867	12,009	299,802	971,689	14.8
75-80	.2850	53,858	15,351	230,635	671,887	12.5
80-85	.2751	38,507	10,594	165,528	441,252	11.5
85 AND OVER	1.0000	27,913	27,913	275,724	275,724	9.9

Table 5-2. Number of Survivors at Single Years of Age, Out of 100,000 Born Alive, by Color and Sex: United States, 1978

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,621	98,473	98,776	98,799	98,663	98,942	97,885	97,675	98,101
2	98,528	98,367	98,698	98,714	98,563	98,872	97,762	97,543	97,987
3	98,456	98,286	98,635	98,649	98,489	98,816	97,660	97,433	97,894
4	98,399	98,222	98,584	98,597	98,431	98,771	97,577	97,342	97,819
5	98,351	98,169	98,542	98,554	98,383	98,733	97,508	97,265	97,759
6	98,310	98,123	98,507	98,516	98,340	98,701	97,452	97,200	97,711
7	98,273	98,081	98,477	98,482	98,301	98,672	97,405	97,145	97,672
8	98,240	98,042	98,450	98,450	98,265	98,646	97,365	97,097	97,641
9	98,211	98,008	98,426	98,422	98,232	98,623	97,330	97,054	97,614
10	98,186	97,978	98,405	98,398	98,204	98,603	97,298	97,014	97,590
11	98,163	97,952	98,386	98,377	98,180	98,585	97,267	96,975	97,566
12	98,140	97,925	98,367	98,356	98,156	98,567	97,234	96,934	97,542
13	98,112	97,891	98,345	98,330	98,124	98,546	97,197	96,886	97,515
14	98,072	97,839	98,318	98,291	98,074	98,520	97,152	96,828	97,485
15	98,017	97,764	98,284	98,236	97,998	98,486	97,098	96,755	97,450
16	97,944	97,662	98,242	98,162	97,894	98,443	97,033	96,666	97,409
17	97,855	97,536	98,191	98,071	97,764	98,392	96,956	96,560	97,362
18	97,752	97,389	98,134	97,966	97,613	98,334	96,864	96,432	97,308
19	97,640	97,226	98,074	97,852	97,448	98,274	96,756	96,277	97,246
20	97,521	97,051	98,012	97,734	97,275	98,214	96,629	96,091	97,176
21	97,396	96,866	97,949	97,613	97,095	98,154	96,482	95,873	97,097
22	97,266	96,670	97,884	97,489	96,908	98,094	96,316	95,625	97,009
23	97,132	96,469	97,818	97,363	96,718	98,034	96,134	95,351	96,913
24	96,998	96,267	97,751	97,239	96,531	97,974	95,941	95,059	96,810
25	96,865	96,069	97,684	97,118	96,350	97,913	95,739	94,754	96,702
26	96,735	95,877	97,615	97,001	96,177	97,853	95,529	94,437	96,588
27	96,607	95,690	97,546	96,887	96,012	97,792	95,311	94,107	96,468
28	96,481	95,508	97,475	96,776	95,853	97,731	95,086	93,768	96,342
29	96,355	95,328	97,403	96,667	95,698	97,669	94,857	93,424	96,213
30	96,229	95,150	97,329	96,557	95,544	97,605	94,624	93,076	96,080
31	96,102	94,973	97,252	96,446	95,391	97,538	94,388	92,726	95,943
32	95,973	94,796	97,172	96,334	95,238	97,468	94,147	92,371	95,801
33	95,840	94,616	97,087	96,219	95,083	97,394	93,897	92,006	95,651
34	95,702	94,430	96,997	96,100	94,924	97,316	93,633	91,624	95,490
35	95,557	94,234	96,901	95,975	94,757	97,233	93,350	91,218	95,314
36	95,403	94,027	96,799	95,843	94,580	97,145	93,046	90,785	95,121
37	95,238	93,807	96,688	95,701	94,392	97,050	92,720	90,326	94,910
38	95,060	93,571	96,567	95,549	94,191	96,947	92,370	89,836	94,680
39	94,867	93,318	96,433	95,384	93,975	96,832	91,992	89,310	94,428
40	94,657	93,045	96,284	95,203	93,743	96,703	91,583	88,745	94,153
41	94,427	92,750	96,118	95,005	93,492	96,559	91,140	88,135	93,853
42	94,176	92,429	95,934	94,788	93,218	96,399	90,661	87,480	93,526
43	93,900	92,080	95,731	94,548	92,917	96,221	90,148	86,787	93,171
44	93,598	91,699	95,507	94,283	92,585	96,023	89,607	86,067	92,787
45	93,268	91,283	95,262	93,989	92,216	95,804	89,039	85,327	92,374
46	92,907	90,829	94,993	93,663	91,806	95,562	88,445	84,569	91,931
47	92,512	90,334	94,698	93,303	91,353	95,296	87,820	83,786	91,455
48	92,080	89,792	94,376	92,906	90,853	95,005	87,151	82,958	90,940
49	91,608	89,197	94,026	92,471	90,301	94,687	86,423	82,058	90,380
50	91,091	88,543	93,647	91,994	89,693	94,342	85,625	81,068	89,770
51	90,526	87,824	93,235	91,471	89,024	93,966	84,751	79,978	89,106
52	89,910	87,037	92,788	90,900	88,289	93,557	83,801	78,792	88,387
53	89,243	86,184	92,306	90,279	87,490	93,115	82,780	77,519	87,613
54	88,527	85,268	91,788	89,610	86,628	92,639	81,695	76,176	86,785
55	87,761	84,289	91,234	88,892	85,703	92,128	80,552	74,773	85,904
56	86,945	83,249	90,643	88,124	84,715	91,580	79,357	73,321	84,974
57	86,075	82,141	90,010	87,301	83,657	90,992	78,106	71,813	83,992
58	85,135	80,947	89,326	86,408	82,510	90,354	76,782	70,229	82,945
59	84,108	79,643	88,579	85,428	81,252	89,654	75,363	68,541	81,815
60	82,981	78,213	87,759	84,347	79,866	88,882	73,836	66,732	80,592
61	81,744	76,648	86,858	83,156	78,343	88,031	72,184	64,788	79,259
62	80,401	74,953	85,876	81,858	76,688	87,100	70,420	62,725	77,824
63	78,966	73,144	84,824	80,465	74,912	86,098	68,593	60,598	76,330
64	77,462	71,246	83,720	78,994	73,036	85,039	66,772	58,481	74,836
65	75,902	69,277	82,572	77,457	71,073	83,929	65,002	56,424	73,381
66	74,292	67,244	81,381	75,856	69,029	82,767	63,308	54,455	71,983
67	72,621	65,141	80,134	74,184	66,900	81,542	61,662	52,552	70,614
68	70,873	62,954	78,814	72,428	64,677	80,240	59,997	50,657	69,200
69	69,024	60,664	77,396	70,571	62,347	78,845	58,215	48,684	67,642
70	67,056	58,259	75,862	68,601	59,902	77,340	56,248	46,574	65,867
71	64,971	55,742	74,208	66,519	57,348	75,722	54,087	44,319	63,869
72	62,772	53,126	72,431	64,327	54,694	73,986	51,760	41,946	61,672
73	60,449	50,413	70,507	62,013	51,943	72,106	49,279	39,479	59,269
74	57,992	47,608	68,410	59,563	49,095	70,054	46,666	36,955	56,660
75	55,397	44,720	66,121	56,971	46,158	67,810	43,950	34,408	53,858
76	52,671	41,764	63,638	54,241	43,145	65,367	41,160	31,865	50,894
77	49,828	38,760	60,971	51,385	40,076	62,731	38,328	29,345	47,813
78	46,890	35,733	58,138	48,423	36,974	59,918	35,492	26,867	44,673
79	43,882	32,710	55,163	45,377	33,868	56,945	32,697	24,454	41,545
80	40,832	29,721	52,070	42,272	30,786	53,830	29,997	22,136	38,507
81	37,766	26,797	48,881	39,130	27,760	50,588	27,454	19,953	35,645
82	34,712	23,973	45,615	35,973	24,820	47,232	25,142	17,957	33,051
83	31,696	21,284	42,291	32,823	21,999	43,772	23,144	16,210	30,825
84	28,747	18,767	38,923	29,700	19,330	40,214	21,554	14,785	29,074
85	25,891	16,462	35,524	26,624	16,847	36,561	20,474	13,766	27,913

Table 5-3. Expectation of Life at Single Years of Age, by Color and Sex: United States, 1978

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	73.3	69.5	77.2	74.0	70.2	77.8	69.2	65.0	73.6
1	73.3	69.6	77.1	73.9	70.1	77.6	69.7	65.5	74.0
2	72.4	68.6	76.2	72.9	69.2	76.7	68.8	64.6	73.1
3	71.5	67.7	75.2	72.0	68.3	75.7	67.9	63.7	72.1
4	70.5	66.7	74.3	71.0	67.3	74.8	66.9	62.8	71.2
5	69.5	65.8	73.3	70.0	66.3	73.8	66.0	61.8	70.2
6	68.6	64.8	72.3	69.1	65.4	72.8	65.0	60.8	69.3
7	67.6	63.8	71.4	68.1	64.4	71.8	64.1	59.9	68.3
8	66.6	62.9	70.4	67.1	63.4	70.8	63.1	58.9	67.3
9	65.6	61.9	69.4	66.1	62.4	69.9	62.1	57.9	66.3
10	64.6	60.9	68.4	65.1	61.5	68.9	61.1	57.0	65.4
11	63.7	59.9	67.4	64.2	60.5	67.9	60.1	56.0	64.4
12	62.7	58.9	66.4	63.2	59.5	66.9	59.2	55.0	63.4
13	61.7	58.0	65.5	62.2	58.5	65.9	58.2	54.0	62.4
14	60.7	57.0	64.5	61.2	57.5	64.9	57.2	53.1	61.4
15	59.7	56.0	63.5	60.2	56.6	64.0	56.2	52.1	60.4
16	58.8	55.1	62.5	59.3	55.6	63.0	55.3	51.1	59.5
17	57.8	54.2	61.6	58.3	54.7	62.0	54.3	50.2	58.5
18	56.9	53.2	60.6	57.4	53.8	61.1	53.4	49.3	57.5
19	56.0	52.3	59.6	56.5	52.9	60.1	52.4	48.3	56.6
20	55.0	51.4	58.7	55.5	52.0	59.1	51.5	47.4	55.6
21	54.1	50.5	57.7	54.6	51.1	58.2	50.6	46.5	54.7
22	53.2	49.6	56.7	53.7	50.2	57.2	49.7	45.7	53.7
23	52.2	48.7	55.8	52.7	49.3	56.2	48.8	44.8	52.8
24	51.3	47.8	54.8	51.8	48.4	55.3	47.9	43.9	51.8
25	50.4	46.9	53.9	50.9	47.5	54.3	47.0	43.1	50.9
26	49.5	46.0	52.9	49.9	46.5	53.3	46.1	42.2	49.9
27	48.5	45.1	51.9	49.0	45.6	52.4	45.2	41.4	49.0
28	47.6	44.2	51.0	48.0	44.7	51.4	44.3	40.5	48.1
29	46.6	43.3	50.0	47.1	43.8	50.4	43.4	39.7	47.1
30	45.7	42.4	49.0	46.2	42.8	49.5	42.5	38.8	46.2
31	44.8	41.4	48.1	45.2	41.9	48.5	41.6	37.9	45.2
32	43.8	40.5	47.1	44.3	41.0	47.5	40.7	37.1	44.3
33	42.9	39.6	46.2	43.3	40.0	46.6	39.8	36.2	43.4
34	41.9	38.7	45.2	42.4	39.1	45.6	38.9	35.4	42.5
35	41.0	37.7	44.2	41.4	38.2	44.6	38.0	34.5	41.5
36	40.1	36.8	43.3	40.5	37.2	43.7	37.2	33.7	40.6
37	39.1	35.9	42.3	39.5	36.3	42.7	36.3	32.9	39.7
38	38.2	35.0	41.4	38.6	35.4	41.8	35.4	32.0	38.8
39	37.3	34.1	40.5	37.7	34.5	40.8	34.6	31.2	37.9
40	36.4	33.2	39.5	36.7	33.6	39.9	33.7	30.4	37.0
41	35.5	32.3	38.6	35.8	32.6	38.9	32.9	29.6	36.1
42	34.6	31.4	37.7	34.9	31.7	38.0	32.0	28.9	35.3
43	33.7	30.5	36.7	34.0	30.8	37.1	31.2	28.1	34.4
44	32.8	29.6	35.8	33.1	29.9	36.1	30.4	27.3	33.5
45	31.9	28.8	34.9	32.2	29.1	35.2	29.6	26.5	32.7
46	31.0	27.9	34.0	31.3	28.2	34.3	28.8	25.8	31.8
47	30.1	27.1	33.1	30.4	27.3	33.4	28.0	25.0	31.0
48	29.3	26.2	32.2	29.5	26.5	32.5	27.2	24.3	30.2
49	28.4	25.4	31.3	28.7	25.6	31.6	26.4	23.5	29.3
50	27.6	24.6	30.5	27.8	24.8	30.7	25.7	22.8	28.5
51	26.7	23.8	29.6	27.0	24.0	29.8	24.9	22.1	27.8
52	25.9	23.0	28.7	26.1	23.2	29.0	24.2	21.4	27.0
53	25.1	22.2	27.9	25.3	22.4	28.1	23.5	20.8	26.2
54	24.3	21.5	27.0	24.5	21.6	27.3	22.8	20.1	25.5
55	23.5	20.7	26.2	23.7	20.8	26.4	22.1	19.5	24.7
56	22.7	19.9	25.4	22.9	20.1	25.6	21.5	18.9	24.0
57	22.0	19.2	24.5	22.1	19.3	24.7	20.8	18.3	23.3
58	21.2	18.5	23.7	21.3	18.6	23.9	20.1	17.7	22.5
59	20.5	17.8	22.9	20.6	17.9	23.1	19.5	17.1	21.8
60	19.7	17.1	22.1	19.8	17.2	22.3	18.9	16.5	21.2
61	19.0	16.4	21.4	19.1	16.5	21.5	18.3	16.0	20.5
62	18.3	15.8	20.6	18.4	15.8	20.7	17.8	15.5	19.9
63	17.6	15.2	19.8	17.7	15.2	19.9	17.2	15.1	19.3
64	17.0	14.6	19.1	17.0	14.6	19.2	16.7	14.6	18.6
65	16.3	14.0	18.4	16.4	14.0	18.4	16.1	14.1	18.0
66	15.7	13.4	17.6	15.7	13.4	17.7	15.5	13.6	17.3
67	15.0	12.8	16.9	15.0	12.8	16.9	15.0	13.1	16.7
68	14.4	12.2	16.2	14.4	12.2	16.2	14.4	12.5	16.0
69	13.7	11.7	15.4	13.7	11.6	15.5	13.8	12.0	15.4
70	13.1	11.1	14.7	13.1	11.1	14.8	13.2	11.6	14.8
71	12.5	10.6	14.1	12.5	10.6	14.1	12.8	11.1	14.2
72	12.0	10.1	13.4	11.9	10.1	13.4	12.3	10.7	13.7
73	11.4	9.6	12.8	11.4	9.6	12.7	11.9	10.4	13.2
74	10.9	9.2	12.1	10.8	9.1	12.1	11.6	10.0	12.8
75	10.4	8.7	11.5	10.3	8.6	11.5	11.2	9.8	12.5
76	9.9	8.3	11.0	9.8	8.2	10.9	11.0	9.5	12.2
77	9.4	7.9	10.4	9.3	7.8	10.3	10.8	9.3	11.9
78	9.0	7.5	9.9	8.8	7.4	9.8	10.6	9.1	11.7
79	8.5	7.2	9.4	8.4	7.1	9.3	10.4	8.9	11.6
80	8.1	6.9	8.9	8.0	6.7	8.8	10.3	8.8	11.5
81	7.8	6.6	8.5	7.6	6.4	8.3	10.2	8.7	11.3
82	7.4	6.3	8.1	7.2	6.1	7.9	10.1	8.6	11.1
83	7.1	6.0	7.7	6.8	5.8	7.5	9.9	8.5	10.9
84	6.7	5.8	7.3	6.5	5.5	7.1	9.6	8.2	10.5
85	6.4	5.5	6.9	6.2	5.3	6.7	9.0	7.8	9.9

Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1978

[Alaska and Hawaii included beginning in 1959. For decennial periods prior to 1929-31, data are for groups of registration States as follows: 1900-1902 and 1909-11, 10 States and the District of Columbia; 1919-21, 34 States and the District of Columbia. For 1900-1902 to 1929-31, figures for "All other, male" and "All other, female" include only the black population. However, in no case did the black population comprise less than 95 percent of the corresponding "All other" population]

AGE, COLOR, AND SEX	NUMBER OF SURVIVORS OUT OF 100,000 BORN ALIVE (l_x)								
	1978[1]	1969-71[1]	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
WHITE, MALE									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,663	97,994	97,408	96,931	95,188	93,768	91,975	87,674	86,655
5	98,383	97,671	97,015	96,403	94,150	91,738	88,842	82,972	80,864
10	98,204	97,441	96,758	96,069	93,601	90,810	87,530	81,519	79,109
15	97,998	97,208	96,503	95,728	93,089	90,074	86,546	80,549	78,037
20	97,275	96,480	95,908	95,104	92,293	88,904	84,997	79,116	76,376
25	96,350	95,524	95,106	94,294	91,241	87,371	83,061	77,047	73,907
30	95,544	94,716	94,401	93,489	90,092	85,707	80,888	74,810	71,219
35	94,757	93,843	93,589	92,543	88,713	83,812	78,441	72,108	68,245
40	93,743	92,631	92,427	91,173	86,880	81,457	75,733	68,848	64,954
45	92,216	90,725	90,533	89,002	84,285	78,345	72,696	65,115	61,369
50	89,693	87,690	87,424	85,601	80,521	74,288	69,107	60,741	57,274
55	85,703	83,001	82,463	80,496	75,156	68,981	64,574	55,622	52,491
60	79,866	75,969	75,485	73,172	67,787	61,933	58,498	48,987	46,452
65	71,073	66,343	65,834	63,541	58,305	52,964	50,663	40,862	39,245
70	59,902	54,138	53,825	51,735	46,739	41,880	40,873	31,527	30,640
75	46,158	40,324	40,207	38,104	33,404	29,471	29,205	21,585	21,387
80	30,786	25,885	25,993	24,005	19,860	17,221	17,655	12,160	12,266
85	16,847	13,527	13,065	12,015	9,013	7,572	8,154	5,145	5,252
ALL OTHER, MALE									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	97,675	96,592	95,301	94,911	91,696	91,268	89,499	78,065	74,674
5	97,265	96,038	94,570	93,921	89,920	88,412	85,195	68,589	64,385
10	97,014	95,716	94,234	93,453	89,211	87,311	83,768	66,377	61,730
15	96,755	95,385	93,874	92,965	88,417	86,152	82,332	64,478	59,667
20	96,091	94,293	93,108	91,941	86,770	83,621	79,057	61,426	56,733
25	94,754	92,267	91,825	90,285	84,055	79,516	74,540	57,736	53,285
30	93,076	90,106	90,270	88,327	80,865	75,083	70,344	54,073	49,867
35	91,218	87,597	88,331	85,940	77,185	70,049	65,873	49,865	46,541
40	88,745	84,378	85,744	82,832	72,830	64,710	61,353	45,414	42,989
45	85,327	80,163	82,075	78,686	67,514	58,432	56,589	40,563	39,230
50	81,068	74,748	77,239	72,891	60,766	51,748	51,880	35,427	34,766
55	74,773	67,808	70,351	65,122	52,867	44,436	46,581	29,754	29,987
60	66,732	59,396	61,669	55,535	44,370	36,790	40,506	23,750	24,194
65	56,424	49,607	51,392	45,198	35,912	29,314	34,042	17,806	19,015
70	46,574	39,025	39,914	35,018	27,688	21,741	26,923	12,295	13,829
75	34,408	27,789	29,064	25,472	19,765	14,419	18,854	7,494	8,892
80	22,136	17,999	19,994	16,904	12,352	8,239	11,615	3,894	4,831
85	13,766	10,811	11,620	9,898	6,492	3,660	5,605	1,747	2,030
WHITE, FEMALE									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,942	98,468	98,036	97,645	96,211	95,037	93,608	89,774	88,939
5	98,733	98,203	97,709	97,199	95,309	93,216	90,721	85,349	83,426
10	98,603	98,042	97,525	96,960	94,890	92,466	89,564	83,979	81,723
15	98,486	97,902	97,375	96,756	94,534	91,894	88,712	83,093	80,680
20	98,214	97,618	97,135	96,454	93,984	90,939	87,281	81,750	78,978
25	97,913	97,299	96,844	96,072	93,228	89,524	85,163	79,865	76,588
30	97,605	96,945	96,499	95,605	92,320	87,972	82,740	77,676	73,887
35	97,233	96,474	96,026	94,977	91,211	86,248	80,206	75,200	70,971
40	96,793	95,762	95,326	94,080	89,805	84,256	77,624	72,425	67,935
45	95,804	94,649	94,228	92,725	87,920	81,780	74,871	69,341	64,677
50	94,342	92,924	92,522	90,685	85,267	78,572	71,547	65,629	61,005
55	92,128	90,383	89,967	87,699	81,520	74,321	67,323	61,053	56,509
60	88,882	86,726	86,339	83,279	76,200	68,462	61,704	54,900	50,752
65	83,929	81,579	80,739	76,773	68,701	60,499	54,299	47,086	43,806
70	77,340	74,101	72,507	67,545	58,363	49,932	44,638	37,482	35,206
75	67,810	63,290	60,461	54,397	44,685	37,024	32,777	26,569	25,362
80	53,830	48,182	44,676	38,026	28,882	23,053	20,492	15,929	15,349
85	36,561	30,490	26,046	21,348	14,487	10,937	9,909	7,152	7,149
ALL OTHER, FEMALE									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,101	97,235	96,172	95,913	93,318	92,796	91,251	81,493	78,525
5	97,759	96,772	95,543	95,055	91,710	90,185	87,149	72,768	68,056
10	97,590	96,546	95,265	94,679	91,092	89,201	85,607	70,508	65,111
15	97,450	96,353	95,057	94,343	90,363	88,088	83,954	68,218	62,384
20	97,176	95,917	94,660	93,544	88,505	85,078	80,154	64,764	59,053
25	96,702	95,247	94,005	92,336	85,961	81,067	75,359	61,430	55,795
30	96,080	94,370	93,070	90,799	83,147	76,816	70,633	58,281	52,773
35	95,314	93,123	91,670	88,805	79,879	72,192	65,857	54,595	49,567
40	94,153	91,247	89,676	86,052	75,908	67,271	61,130	50,568	46,146
45	92,374	88,608	86,793	82,257	71,061	61,365	56,230	45,947	42,279
50	89,770	84,964	82,979	77,007	64,886	54,920	50,780	40,886	37,681
55	85,904	80,162	77,362	70,196	57,419	47,074	44,742	35,415	33,124
60	80,592	73,984	69,941	61,758	49,102	38,761	37,954	28,908	27,524
65	73,381	66,064	60,825	52,358	40,718	30,852	31,044	22,302	21,995
70	65,867	56,375	51,274	42,612	32,579	23,341	24,107	15,871	16,140
75	53,858	44,841	40,540	32,981	24,668	16,576	17,216	10,657	11,066
80	38,507	33,373	30,315	23,712	17,157	10,822	11,151	6,324	6,708
85	27,913	22,763	19,744	15,550	10,658	6,033	5,972	3,029	3,567

[1]Deaths of nonresidents of the United States were excluded beginning in 1970.

Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1978—Con.

[See headnote at beginning of table]

AGE, COLOR, AND SEX	AVERAGE NUMBER OF YEARS OF LIFE REMAINING (e_x)								
	1978[1]	1969-71[1]	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
WHITE, MALE									
0	70.2	67.94	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1	70.1	68.33	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5	66.3	64.55	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10	61.5	59.69	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15	56.6	54.83	54.93	54.18	52.33	50.39	49.74	46.91	46.25
20	52.0	50.22	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25	47.5	45.70	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30	42.8	41.07	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35	38.2	36.43	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40	33.6	31.87	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45	29.1	27.48	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50	24.8	23.34	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55	20.8	19.51	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60	17.2	16.07	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65	14.0	13.02	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70	11.1	10.38	10.29	10.07	9.42	9.20	9.51	8.83	9.03
75	8.6	8.06	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80	6.7	6.18	5.89	5.88	5.38	5.26	5.47	5.09	5.10
85	5.3	4.63	4.34	4.35	4.02	3.99	4.06	3.88	3.81
ALL OTHER, MALE									
0	65.0	60.98	61.48	58.91	52.33	47.55	47.14	34.05	32.54
1	65.5	62.13	63.50	61.06	56.05	51.08	51.63	42.53	42.46
5	61.8	58.48	59.98	57.69	53.13	48.69	50.18	44.25	45.06
10	57.0	53.67	55.19	52.96	48.54	44.27	45.99	40.65	41.90
15	52.1	48.84	50.39	48.23	43.95	39.83	41.75	36.77	38.26
20	47.4	44.37	45.78	43.73	39.74	35.95	38.36	33.46	35.11
25	43.1	40.29	41.38	39.49	35.94	32.67	35.54	30.44	32.21
30	38.8	36.20	37.05	35.31	32.25	29.45	32.51	27.33	29.25
35	34.5	32.16	32.81	31.21	28.67	26.39	29.54	24.42	26.16
40	30.4	28.29	28.72	27.29	25.23	23.36	26.53	21.57	23.12
45	26.5	24.64	24.89	23.59	22.02	20.59	23.55	18.85	20.09
50	22.8	21.24	21.28	20.25	19.18	17.92	20.47	16.21	17.34
55	19.5	18.14	18.11	17.36	16.67	15.46	17.50	13.82	14.69
60	16.5	15.35	15.29	14.91	14.38	13.15	14.74	11.67	12.62
65	14.1	12.87	12.84	12.75	12.18	10.87	12.07	9.74	10.38
70	11.6	10.68	10.81	10.74	10.06	8.78	9.58	8.00	8.33
75	9.8	8.99	8.93	8.83	8.09	6.99	7.61	6.58	6.60
80	8.8	7.57	6.87	7.07	6.46	5.42	5.83	5.53	5.12
85	7.8	6.04	5.08	5.38	5.08	4.30	4.53	4.48	4.04
WHITE, FEMALE									
0	77.8	75.49	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1	77.6	75.66	74.68	72.77	68.93	64.93	61.51	58.69	56.39
5	73.8	71.86	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10	68.9	66.97	66.05	64.26	60.85	57.65	55.17	53.57	52.15
15	64.0	62.07	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20	59.1	57.24	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25	54.3	52.42	51.45	49.77	46.78	44.25	42.55	40.88	40.05
30	49.5	47.60	46.63	45.00	42.21	39.99	38.72	36.96	36.42
35	44.6	42.82	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40	39.9	38.12	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45	35.2	33.54	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50	30.7	29.11	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55	26.4	24.85	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60	22.3	20.79	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65	18.4	16.93	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70	14.8	13.37	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75	11.5	10.21	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80	8.8	7.59	6.67	6.59	5.88	5.63	5.70	5.35	5.50
85	6.7	5.54	4.66	4.83	4.34	4.24	4.24	4.06	4.10
ALL OTHER, FEMALE									
0	73.6	69.05	66.47	62.70	55.51	49.51	46.92	37.67	35.04
1	74.0	70.01	68.10	64.37	58.47	52.33	50.39	45.15	43.54
5	70.2	66.34	64.54	60.93	55.47	49.81	48.70	46.42	46.04
10	65.4	61.49	59.72	56.17	50.83	45.33	44.54	42.84	43.02
15	60.4	56.60	54.85	51.36	46.22	40.87	40.36	39.18	39.79
20	55.6	51.85	50.07	46.77	42.14	37.22	37.15	36.14	36.89
25	50.9	47.19	45.40	42.35	38.31	33.93	34.35	32.97	33.90
30	46.2	42.61	40.83	38.02	34.52	30.67	31.48	29.61	30.70
35	41.5	38.14	36.41	33.82	30.83	27.47	28.58	26.44	27.52
40	37.0	33.87	32.16	29.82	27.31	24.30	25.60	23.34	24.37
45	32.7	29.80	28.14	26.07	24.00	21.39	22.61	20.43	21.36
50	28.5	25.97	24.31	22.67	21.04	18.60	19.76	17.65	18.67
55	24.7	22.37	20.89	19.62	18.44	16.27	17.09	14.98	15.88
60	21.2	19.02	17.83	16.95	16.14	14.22	14.69	12.78	13.60
65	18.0	15.99	15.12	14.54	13.95	12.24	12.41	10.82	11.38
70	14.8	13.30	12.46	12.29	11.81	10.38	10.25	9.22	9.62
75	12.5	11.06	10.10	10.15	9.80	8.62	8.37	7.55	7.90
80	11.5	9.01	7.66	8.15	8.00	6.90	6.58	6.05	6.48
85	9.9	7.07	5.44	6.15	6.38	5.48	5.22	5.09	5.10

[1]Deaths of nonresidents of the United States were excluded beginning in 1970.

Table 5-5. Average Length of Life in Years, by Color and Sex: Death-Registration States, 1900-1928, and United States, 1929-77

[For selected years, life table values shown are estimates; see Technical Appendix]

AREA AND YEAR	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
UNITED STATES									
1977[1]	73.2	69.3	77.1	73.8	70.0	77.7	68.8	64.6	73.1
1976[1]	72.8	69.0	76.7	73.5	69.7	77.3	68.4	64.2	72.7
1975[1]	72.5	68.7	76.5	73.2	69.4	77.2	67.9	63.6	72.3
1974[1]	71.9	68.1	75.8	72.7	68.9	76.6	67.0	62.9	71.3
1973[1,2]	71.3	67.5	75.2	72.1	68.4	76.1	65.9	61.8	70.1
1972[1,2,3]	71.1	67.4	75.0	72.0	68.2	75.9	65.6	61.4	69.9
1971[1,2]	71.1	67.4	75.0	71.9	68.2	75.8	65.6	61.6	69.7
1970[1,2]	70.8	67.1	74.7	71.7	68.0	75.6	65.3	61.3	69.4
1969[2]	70.5	66.8	74.4	71.4	67.7	75.3	64.5	60.6	68.6
1968[2]	70.2	66.6	74.1	71.1	67.5	75.0	64.1	60.4	67.9
1967[2]	70.5	67.0	74.3	71.4	67.8	75.2	64.9	61.4	68.5
1966[2]	70.2	66.7	73.9	71.1	67.5	74.8	64.2	60.9	67.6
1965[2]	70.2	66.8	73.8	71.1	67.6	74.8	64.3	61.2	67.6
1964[2]	70.2	66.8	73.7	71.0	67.7	74.7	64.2	61.3	67.3
1963[2,4]	69.9	66.6	73.4	70.8	67.4	74.4	63.7	61.0	66.6
1962[2,4]	70.1	66.9	73.5	70.9	67.7	74.5	64.2	61.6	66.9
1961[2]	70.2	67.1	73.6	71.0	67.8	74.6	64.5	62.0	67.1
1960	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3
1959	69.9	66.8	73.2	70.7	67.5	74.2	63.9	61.3	66.5
1958	69.6	66.6	72.9	70.5	67.4	73.9	63.4	61.0	65.8
1957	69.5	66.4	72.7	70.3	67.2	73.7	63.0	60.7	65.5
1956	69.7	66.7	72.9	70.5	67.5	73.9	63.6	61.3	66.1
1955	69.6	66.7	72.8	70.5	67.4	73.7	63.7	61.4	66.1
1954	69.6	66.7	72.8	70.5	67.5	73.7	63.4	61.1	65.9
1953	68.8	66.0	72.0	69.7	66.8	73.0	62.0	59.7	64.5
1952	68.6	65.8	71.6	69.5	66.6	72.6	61.4	59.1	63.8
1951	68.4	65.6	71.4	69.3	66.5	72.4	61.2	59.2	63.4
1950	68.2	65.6	71.1	69.1	66.5	72.2	60.8	59.1	62.9
1949	68.0	65.2	70.7	68.8	66.2	71.9	60.6	58.9	62.7
1948	67.2	64.6	69.9	68.0	65.5	71.0	60.0	58.1	62.5
1947	66.8	64.4	69.7	67.6	65.2	70.5	59.7	57.9	61.9
1946	66.7	64.4	69.4	67.5	65.1	70.3	59.1	57.5	61.0
1945	65.9	63.6	67.9	66.8	64.4	69.5	57.7	56.1	59.6
1944	65.2	63.6	66.8	66.2	64.5	68.4	56.6	55.8	57.7
1943	63.3	62.4	64.4	64.2	63.2	65.7	55.6	55.4	56.1
1942	66.2	64.7	67.9	67.3	65.9	69.4	56.6	55.4	58.2
1941	64.8	63.1	66.8	66.2	64.4	68.5	53.8	52.5	55.3
1940	62.9	60.8	65.2	64.2	62.1	66.6	53.1	51.5	54.9
1939	63.7	62.1	65.4	64.9	63.3	66.6	54.5	53.2	56.0
1938	63.5	61.9	65.3	65.0	63.2	66.8	52.9	51.7	54.3
1937	60.0	58.0	62.4	61.4	59.3	63.8	50.3	48.3	52.5
1936	58.5	56.6	60.6	59.8	58.0	61.9	49.0	47.0	51.4
1935	61.7	59.9	63.9	62.9	61.0	65.0	53.1	51.3	55.2
1934	61.1	59.3	63.3	62.4	60.5	64.6	51.8	50.2	53.7
1933	63.3	61.7	65.1	64.3	62.7	66.3	54.7	53.5	56.0
1932	62.1	61.0	63.5	63.2	62.0	64.5	53.7	52.8	54.6
1931	61.1	59.4	63.1	62.6	60.8	64.7	50.4	49.5	51.5
1930	59.7	58.1	61.6	61.4	59.7	63.5	48.1	47.3	49.2
1929	57.1	55.8	58.7	58.6	57.2	60.3	46.7	45.7	47.8
DEATH-REGISTRATION STATES									
1928	56.8	55.6	58.3	58.4	57.0	60.0	46.3	45.6	47.0
1927	60.4	59.0	62.1	62.0	60.5	63.9	48.2	47.6	48.9
1926	56.7	55.5	58.0	58.2	57.0	59.6	44.6	43.7	45.6
1925	59.0	57.6	60.6	60.7	59.3	62.4	45.7	44.9	46.7
1924	59.7	58.1	61.5	61.4	59.8	63.4	46.6	45.5	47.8
1923	57.2	56.1	58.5	58.3	57.1	59.6	48.3	47.7	48.9
1922	59.6	58.4	61.0	60.4	59.1	61.9	52.4	51.8	53.0
1921	60.8	60.0	61.8	61.8	60.8	62.9	51.5	51.6	51.3
1920	54.1	53.6	54.6	54.9	54.4	55.6	45.3	45.5	45.2
1919	54.7	53.5	56.0	55.8	54.5	57.4	44.5	44.5	44.4
1918	39.1	36.6	42.2	39.8	37.1	43.2	31.1	29.9	32.5
1917	50.9	48.4	54.0	52.0	49.3	55.3	38.8	37.0	40.8
1916	51.7	49.6	54.3	52.5	50.2	55.2	41.3	39.6	43.1
1915	54.5	52.5	56.8	55.1	53.1	57.5	38.9	37.5	40.5
1914	54.2	52.0	56.8	54.9	52.7	57.5	38.9	37.1	40.8
1913	52.5	50.3	55.0	53.0	50.8	55.7	38.4	36.7	40.3
1912	53.5	51.5	55.9	53.9	51.9	56.2	37.9	35.9	40.0
1911	52.6	50.9	54.4	53.0	51.3	54.9	36.4	34.6	38.2
1910	50.0	48.4	51.8	50.3	48.6	52.0	35.6	33.8	37.5
1909	52.1	50.5	53.8	52.5	50.9	54.2	35.7	34.2	37.3
1908	51.1	49.5	52.8	51.5	49.9	53.3	34.9	33.8	36.0
1907	47.6	45.6	49.9	48.1	46.0	50.4	32.5	31.1	34.0
1906	48.7	46.9	50.8	49.3	47.3	51.4	32.9	31.8	33.9
1905	48.7	47.3	50.2	49.1	47.6	50.6	31.3	29.6	33.1
1904	47.6	46.2	49.1	48.0	46.6	49.5	30.8	29.1	32.7
1903	50.5	49.1	52.0	50.9	49.5	52.5	33.1	31.7	34.6
1902	51.5	49.8	53.4	51.9	50.2	53.8	34.6	32.9	36.4
1901	49.1	47.6	50.6	49.4	48.0	51.0	33.7	32.2	35.3
1900	47.3	46.3	48.3	47.6	46.6	48.7	33.0	32.5	33.5

[1]Excludes deaths of nonresidents of the United States.
[2]Figures are revised and, therefore, may differ from those published in volumes of Vital Statistics of the United States, Vol. II, Mortality, Part A, for 1976 and earlier years; see Technical Appendix.
[3]Deaths based on a 50-percent sample.
[4]Figures by color exclude data for residents of New Jersey; see Technical Appendix.