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of the

UNITED STATES

1970

VOLUME II – SECTION 5

Life Tables

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service
Health Resources Administration
National Center for Health Statistics
Rockville, Maryland

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Guide to tables in Section 5

TABLE: 5	-1	-2	-3	-4	-5
PAGE: 5	-7	-10	-11	-12	-14
Years:					
1900-1970					5[1]
1970 only	1	2	3		
Specified years and 1970				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	
Estimated average length of life ($\mathring{e}_x$)					5
Characteristics:					
Age by:					
Single years		2	3		
5-year intervals	1			4	
Sex-color specific	1	2	3	4	5[3]
Sex specific	1	2	3		5
Color specific	1	2	3		5[3]
Total population	1	2	3		5

[1]Entire United States for 1929-70; death-registration States for 1900-1928.

[2]Entire United States for specified years from 1929 to 1970; death-registration States for specified years from 1900 to 1921.

[3]New Jersey did not require the reporting of color or race in 1962 and 1963.

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 1970 assumes a hypothetical cohort subject throughout its lifetime to the age-specific mortality rates prevailing for the actual population in 1970. 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 provides reasonably accurate data on current trends in expectation of life and survivorship. Abridged life tables for 1945 to 1952 were constructed by the Greville method;[1] since 1953, a modified method has been employed.[2] 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 1957, abridged life tables have been calculated for total males and total females, regardless of color. Starting with 1959, additional abridged life tables have been published 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 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., Baltimore, New Orleans, and New York). The sample is taken by selecting one certificate out of every 10 death certificates received between two dates a month apart.

Life table values for 1970

The data used to prepare the abridged U.S. life tables for 1970 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.[3] Sample life table statistics for 1970 are shown in table 5-A. The text will refer to values for the total U.S. population; however, the same type of statistics may be applied to each color-sex group.

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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.

[3]U.S. Bureau of the Census: United States Summary, Final Report PC(1)-B1. *Census of Population, 1970, General Population Characteristics.* Washington. U.S. Government Printing Office, 1972.

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 at specified ages in 1970 is shown for the total population and by color and sex in table 5-1. In addition, expectations of life by single years of age, by color and sex, are shown in table 5-3.

Table 5-A. Selected life table values, by age, color, and sex: United States, 1970

Life table value and age	Total	White		All other	
		Male	Female	Male	Female
Expectation of life:					
At birth	70.9	68.0	75.6	61.3	69.4
At age 1	71.3	68.4	75.8	62.5	70.4
At age 21	52.2	49.4	56.4	43.9	51.2
At age 65	15.2	13.1	17.1	13.3	16.4
Percent surviving from birth:					
To age 1	98.0	98.0	98.4	96.5	97.2
To age 21	96.6	96.3	97.5	94.0	95.8
To age 65	71.9	66.2	81.5	49.9	66.3
Median age at death	74.9	71.5	79.4	64.9	72.9

Life expectancy at birth ($\mathring{e}_0$) is 70.9 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. Text table 5-A shows the higher life expectancy of females as compared with males within each color group, and of whites as compared with those in the all other category. At age 1, life expectancy is 71.3 years, which is higher than at birth. This is a result of surviving the first year, when the mortality rate is very high. Remaining years of expected lifetime are also shown in table 5-A for ages 21 and 65 years.

Survivors to specified ages.—Another way of assessing longevity of the life table cohort is by determining the proportion of it that lives to specified ages. The l_x column provides the data for computing the proportion. For instance, 71,858 out of the original 100,000 (or 71.9 percent) were alive at exact age 65 (table 5-2). Survivorship to other ages, by color and sex, is shown as percentage in table 5-A.

Median length of life.—Instead of determining the proportion alive at a specified age, one can compute the age at which a specified proportion of the cohort is still alive. For example, one can determine the age at which exactly half the cohort (50,000 persons) still remain alive, and half have died. This value, known as the median age at death, is shown at the bottom of table 5-A, by color and sex. For example, the median age for white males is 7.9 years less than for white females.

Trends and comparisons

The geographic areas covered in life tables prior to 1929-31 were limited to the death-registration areas. Life tables for 1919-21 were constructed using mortality data from the 1920 death-registration States—34 States and the District of Columbia—and for 1900-1902 and 1909-11 from the 1900 death-registration States—10 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 are 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 for 1959 and both Alaska and Hawaii beginning with 1960. However, it is not believed that the inclusion of these two States materially affects life table values.

Table 5-B. Selected life table values, by color and sex: Death-registration areas, 1970, 1969, 1960, 1950, 1900-1902

Life table value and year	Total	White		All other	
		Male	Female	Male	Female
Life expectancy ($\mathring{e}_x$) at birth:					
1970	70.9	68.0	75.6	61.3	69.4
1969	70.4	67.8	75.1	60.5	68.4
1960	69.7	67.4	74.1	61.1	66.3
1950	68.2	66.5	72.2	59.1	62.9
1900	47.3	46.6	48.7	32.5	33.5
At age 20:					
1970	53.1	50.3	57.4	44.7	52.2
1900-1902	---	42.2	43.8	35.1	36.9
Percent reaching age 65:					
1970	71.9	66.2	81.5	49.9	66.3
1900-1902	---	39.2	43.8	19.0	22.0

Trends in life table values are shown in tables 5-4 and 5-5. Table 5-4 shows the expectation of life, and the number of cohort survivors at specified ages around census years since 1900, and for 1969 and 1970. Life expectancy among white males exactly 20 years old, for instance, has increased from 42.2 years in 1900-1902 to 50.3 years in 1970 (text table 5-B). Where 39.2 percent of white males survived to age 65 in 1900-1902, now 66.2 percent survive to this age.

There has been an increasing interest in data on average length of life ($\mathring{e}_0$) for single calendar years prior to the initiation of the annual abridged life table series in 1945. The estimated figures in table 5-5 were computed to meet these

needs.[4] For example, life expectancy has increased by 3.4 years among white females since 1950, or an average increase of 0.17 year of life per calendar year. Values for other years, by color and sex, are shown in table 5-B.

Technical appendix

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 Negro.

Standard table.--U.S. life tables for the decennial period 1959-61 are used as the standard table in constructing the 1970 abridged life tables.

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

[4]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 0.0112—out of every 1,000 males alive and exactly 20 years old at the beginning of the period 11 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, 97,745 will complete the first year of life and enter the second; 97,298 will begin the sixth year; 96,128 will reach age 20; and 13,256 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, 2,255 die in the first year of life, 364 in the succeeding 4 years, 1,079 in the 5-year period between exact ages 20 and 25, and 13,256 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 477,977. 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 477,977 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 4,769,722 persons who have passed their 20th birthday. The population at all ages 0 and above (in other words, the total population of the stationary community) would be 6,711,932.

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 477,977 for males in the age interval 20-25 is the total number of years lived between the 20th and 25th birthdays by the 96,128 (column 3) who reached the 20th birthday out of 100,000 males born alive. The corresponding figure (4,769,722) in column 6 is the total number of years lived after attaining age 20 by the 96,128 reaching that age. This number of years divided by the number of persons (4,769,722 divided by 96,128) gives 49.6 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, 1970

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	0.0202	100,000	2,016	98,189	7,085,472	70.9
1-5	.0034	97,984	331	391,144	6,987,283	71.3
5-10	.0021	97,653	205	487,712	6,596,139	67.5
10-15	.0020	97,448	198	486,793	6,108,427	62.7
15-20	.0055	97,250	535	485,022	5,621,634	57.8
20-25	.0074	96,715	713	481,825	5,136,612	53.1
25-30	.0072	96,002	690	478,310	4,654,787	48.5
30-35	.0086	95,312	821	474,602	4,176,477	43.8
35-40	.0123	94,491	1,161	469,745	3,701,875	39.2
40-45	.0187	93,330	1,745	462,599	3,232,130	34.6
45-50	.0288	91,585	2,640	451,806	2,769,531	30.2
50-55	.0436	88,945	3,876	435,607	2,317,725	26.1
55-60	.0660	85,069	5,611	412,091	1,882,118	22.1
60-65	.0956	79,458	7,600	379,204	1,470,027	18.5
65-70	.1386	71,858	9,960	335,334	1,090,823	15.2
70-75	.1976	61,898	12,234	279,788	755,489	12.2
75-80	.2885	49,664	14,330	213,104	475,701	9.6
80-85	.4035	35,334	14,257	140,305	262,597	7.4
85 AND OVER	1.0000	21,077	21,077	122,292	122,292	5.8
MALE						
0-1	0.0225	100,000	2,255	97,968	6,711,932	67.1
1-5	.0037	97,745	364	390,113	6,613,964	67.7
5-10	.0025	97,381	242	486,259	6,223,851	63.9
10-15	.0026	97,139	249	485,149	5,737,592	59.1
15-20	.0079	96,890	762	482,721	5,252,443	54.2
20-25	.0112	96,128	1,079	477,977	4,769,722	49.6
25-30	.0101	95,049	959	472,842	4,291,745	45.2
30-35	.0114	94,090	1,077	467,867	3,818,903	40.6
35-40	.0156	93,013	1,451	461,681	3,351,036	36.0
40-45	.0240	91,562	2,196	452,727	2,889,355	31.6
45-50	.0372	89,366	3,324	439,154	2,436,628	27.3
50-55	.0574	86,042	4,939	418,604	1,997,474	23.2
55-60	.0890	81,103	7,217	388,408	1,578,870	19.5
60-65	.1306	73,886	9,653	346,300	1,190,462	16.1
65-70	.1872	64,233	12,023	291,854	844,162	13.1
70-75	.2573	52,210	13,433	227,840	552,308	10.6
75-80	.3565	38,777	13,823	159,243	324,468	8.4
80-85	.4688	24,954	11,698	94,394	165,225	6.6
85 AND OVER	1.0000	13,256	13,256	70,831	70,831	5.3
FEMALE						
0-1	0.0176	100,000	1,764	98,421	7,477,741	74.8
1-5	.0030	98,236	296	392,227	7,379,320	75.1
5-10	.0017	97,940	167	489,242	6,987,093	71.3
10-15	.0015	97,773	144	488,524	6,497,851	66.5
15-20	.0031	97,629	301	487,440	6,009,327	61.6
20-25	.0038	97,328	366	485,756	5,521,887	56.7
25-30	.0044	96,962	424	483,797	5,036,131	51.9
30-35	.0059	96,538	568	481,349	4,552,334	47.2
35-40	.0091	95,970	877	477,800	4,070,985	42.4
40-45	.0137	95,093	1,300	472,430	3,593,185	37.8
45-50	.0209	93,793	1,964	464,375	3,120,755	33.3
50-55	.0306	91,829	2,806	452,518	2,656,380	28.9
55-60	.0444	89,023	3,954	435,829	2,203,862	24.8
60-65	.0639	85,069	5,434	412,546	1,768,033	20.8
65-70	.0974	79,635	7,760	379,846	1,355,487	17.0
70-75	.1506	71,875	10,828	333,666	975,641	13.6
75-80	.2382	61,047	14,544	270,249	641,975	10.5
80-85	.3596	46,503	16,721	190,550	371,726	8.0
85 AND OVER	1.0000	29,782	29,782	181,176	181,176	6.1

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1970—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	0.0179	100,000	1,788	98,373	7,170,645	71.7
1-5	.0030	98,212	294	392,153	7,072,272	72.0
5-10	.0020	97,918	195	489,066	6,680,119	68.2
10-15	.0019	97,723	188	488,192	6,191,053	63.4
15-20	.0051	97,535	502	486,518	5,702,861	58.5
20-25	.0065	97,033	631	483,602	5,216,343	53.8
25-30	.0060	96,402	580	480,569	4,732,741	49.1
30-35	.0070	95,822	672	477,509	4,252,172	44.4
35-40	.0102	95,150	970	473,497	3,774,663	39.7
40-45	.0161	94,180	1,515	467,407	3,301,166	35.1
45-50	.0259	92,665	2,401	457,783	2,833,759	30.6
50-55	.0402	90,264	3,632	442,794	2,375,976	26.3
55-60	.0623	86,632	5,394	420,464	1,933,182	22.3
60-65	.0917	81,238	7,451	388,535	1,512,718	18.6
65-70	.1343	73,787	9,911	345,189	1,124,183	15.2
70-75	.1937	63,876	12,374	289,453	778,994	12.2
75-80	.2879	51,502	14,827	221,136	489,541	9.5
80-85	.4076	36,675	14,949	145,242	268,405	7.3
85 AND OVER	1.0000	21,726	21,726	123,163	123,163	5.7
WHITE, MALE						
0-1	0.0201	100,000	2,010	98,167	6,799,319	68.0
1-5	.0033	97,990	327	391,195	6,701,152	68.4
5-10	.0024	97,663	232	487,697	6,309,957	64.6
10-15	.0024	97,431	236	486,640	5,822,260	59.8
15-20	.0073	97,195	713	484,352	5,335,620	54.9
20-25	.0099	96,482	956	480,031	4,851,268	50.3
25-30	.0084	95,526	805	475,597	4,371,237	45.8
30-35	.0092	94,721	874	471,511	3,895,640	41.1
35-40	.0129	93,847	1,215	466,415	3,424,129	36.5
40-45	.0208	92,632	1,927	458,729	2,957,714	31.9
45-50	.0337	90,705	3,058	446,495	2,498,985	27.6
50-55	.0536	87,647	4,695	427,229	2,052,490	23.4
55-60	.0852	82,952	7,066	398,063	1,625,261	19.6
60-65	.1272	75,886	9,655	356,351	1,227,198	16.2
65-70	.1842	66,231	12,202	301,482	870,847	13.1
70-75	.2549	54,029	13,771	236,206	569,365	10.5
75-80	.3571	40,258	14,375	165,302	333,159	8.3
80-85	.4749	25,883	12,292	97,473	167,857	6.5
85 AND OVER	1.0000	13,591	13,591	70,384	70,384	5.2
WHITE, FEMALE						
0-1	0.0155	100,000	1,553	98,591	7,560,626	75.6
1-5	.0026	98,447	260	393,166	7,462,035	75.8
5-10	.0016	98,187	157	490,507	7,068,869	72.0
10-15	.0014	98,030	137	489,825	6,578,362	67.1
15-20	.0029	97,893	283	488,796	6,088,537	62.2
20-25	.0033	97,610	320	487,268	5,599,741	57.4
25-30	.0037	97,290	355	485,596	5,112,473	52.5
30-35	.0048	96,935	470	483,567	4,626,877	47.7
35-40	.0075	96,465	725	480,638	4,143,310	43.0
40-45	.0115	95,740	1,105	476,138	3,662,672	38.3
45-50	.0185	94,635	1,753	469,091	3,186,534	33.7
50-55	.0276	92,882	2,565	458,359	2,717,443	29.3
55-60	.0408	90,317	3,681	442,984	2,259,084	25.0
60-65	.0595	86,636	5,151	421,146	1,816,100	21.0
65-70	.0921	81,485	7,504	389,814	1,394,954	17.1
70-75	.1459	73,981	10,796	344,404	1,005,140	13.6
75-80	.2371	63,185	14,981	279,978	660,736	10.5
80-85	.3628	48,204	17,489	197,142	380,758	7.9
85 AND OVER	1.0000	30,715	30,715	183,616	183,616	6.0

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1970—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	0.0312	100,000	3,117	97,300	6,528,792	65.3
1-5	.0054	96,883	518	386,240	6,431,492	66.4
5-10	.0027	96,365	261	481,110	6,045,252	62.7
10-15	.0027	96,104	256	479,938	5,564,142	57.9
15-20	.0077	95,848	736	477,589	5,084,204	53.0
20-25	.0133	95,112	1,267	472,561	4,606,615	48.4
25-30	.0155	93,845	1,450	465,752	4,134,054	44.1
30-35	.0194	92,395	1,794	457,710	3,668,302	39.7
35-40	.0269	90,601	2,437	447,262	3,210,592	35.4
40-45	.0386	88,164	3,402	432,722	2,763,330	31.3
45-50	.0533	84,762	4,522	413,143	2,330,608	27.5
50-55	.0734	80,240	5,888	387,223	1,917,465	23.9
55-60	.0997	74,352	7,413	353,887	1,530,242	20.6
60-65	.1326	66,939	8,879	312,966	1,176,355	17.6
65-70	.1767	58,060	10,259	264,899	863,389	14.9
70-75	.2386	47,801	11,404	210,252	598,490	12.5
75-80	.2962	36,397	10,781	154,751	388,238	10.7
80-85	.3480	25,616	8,913	105,274	233,487	9.1
85 AND OVER	1.0000	16,703	16,703	128,213	128,213	7.7
ALL OTHER, MALE						
0-1	0.0346	100,000	3,456	96,996	6,131,897	61.3
1-5	.0058	96,544	558	384,780	6,034,901	62.5
5-10	.0031	95,986	298	479,128	5,650,121	58.9
10-15	.0034	95,688	324	477,717	5,170,993	54.0
15-20	.0112	95,364	1,064	474,449	4,693,276	49.2
20-25	.0206	94,300	1,942	466,884	4,218,827	44.7
25-30	.0226	92,358	2,088	456,721	3,751,943	40.6
30-35	.0276	90,270	2,492	445,370	3,295,222	36.5
35-40	.0356	87,778	3,126	431,501	2,849,852	32.5
40-45	.0501	84,652	4,237	413,168	2,418,351	28.6
45-50	.0676	80,415	5,436	389,223	2,005,183	24.9
50-55	.0926	74,979	6,943	358,353	1,615,960	21.6
55-60	.1242	68,036	8,449	319,722	1,257,607	18.5
60-65	.1629	59,587	9,704	274,260	937,885	15.7
65-70	.2130	49,883	10,624	222,987	663,625	13.3
70-75	.2811	39,259	11,036	168,106	440,638	11.2
75-80	.3490	28,223	9,850	115,987	272,532	9.7
80-85	.3932	18,373	7,225	73,220	156,545	8.5
85 AND OVER	1.0000	11,148	11,148	83,325	83,325	7.5
ALL OTHER, FEMALE						
0-1	0.0277	100,000	2,770	97,611	6,938,026	69.4
1-5	.0049	97,230	479	387,730	6,840,415	70.4
5-10	.0023	96,751	223	483,132	6,452,685	66.7
10-15	.0019	96,528	186	482,204	5,969,553	61.8
15-20	.0042	96,342	408	480,791	5,487,349	57.0
20-25	.0069	95,934	661	478,122	5,006,558	52.2
25-30	.0092	95,273	879	474,304	4,528,436	47.5
30-35	.0124	94,394	1,174	469,209	4,054,132	42.9
35-40	.0196	93,220	1,829	461,802	3,584,923	38.5
40-45	.0289	91,391	2,645	450,657	3,123,121	34.2
45-50	.0407	88,746	3,612	435,219	2,672,464	30.1
50-55	.0562	85,134	4,782	414,360	2,237,245	26.3
55-60	.0774	80,352	6,221	386,833	1,822,885	22.7
60-65	.1053	74,131	7,807	351,476	1,436,052	19.4
65-70	.1454	66,324	9,644	307,853	1,084,576	16.4
70-75	.2021	56,680	11,453	254,907	776,723	13.7
75-80	.2528	45,227	11,434	197,555	521,816	11.5
80-85	.3125	33,793	10,562	142,167	324,261	9.6
85 AND OVER	1.0000	23,231	23,231	182,094	182,094	7.8

Table 5-2. Number of Survivors at Single Years of Age, Out of 100,000 Born Alive, by Color and Sex: United States, 1970

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	97,984	97,745	98,236	98,212	97,990	98,447	96,883	96,544	97,230
2	97,859	97,612	98,119	98,105	97,875	98,347	96,665	96,317	97,020
3	97,776	97,520	98,045	98,031	97,791	98,284	96,535	96,184	96,893
4	97,708	97,443	97,987	97,969	97,720	98,231	96,441	96,077	96,812
5	97,653	97,381	97,940	97,918	97,663	98,187	96,365	95,986	96,751
6	97,591	97,298	97,897	97,860	97,586	98,147	96,275	95,867	96,688
7	97,542	97,238	97,859	97,814	97,529	98,112	96,212	95,791	96,637
8	97,504	97,196	97,826	97,777	97,487	98,081	96,167	95,744	96,595
9	97,474	97,165	97,798	97,748	97,456	98,054	96,133	95,713	96,559
10	97,448	97,139	97,773	97,723	97,431	98,030	96,104	95,688	96,528
11	97,423	97,113	97,750	97,699	97,406	98,008	96,074	95,659	96,498
12	97,395	97,081	97,726	97,672	97,375	97,985	96,037	95,617	96,467
13	97,359	97,036	97,700	97,638	97,333	97,960	95,990	95,557	96,433
14	97,312	96,974	97,668	97,594	97,275	97,930	95,928	95,474	96,392
15	97,250	96,890	97,629	97,535	97,195	97,893	95,848	95,364	96,342
16	97,171	96,781	97,581	97,460	97,092	97,847	95,747	95,224	96,282
17	97,075	96,647	97,525	97,369	96,965	97,794	95,624	95,050	96,211
18	96,964	96,491	97,462	97,264	96,818	97,735	95,477	94,840	96,129
19	96,843	96,317	97,396	97,151	96,655	97,673	95,306	94,590	96,036
20	96,715	96,128	97,328	97,033	96,482	97,610	95,112	94,300	95,934
21	96,580	95,925	97,259	96,910	96,298	97,548	94,893	93,966	95,821
22	96,437	95,708	97,187	96,783	96,104	97,485	94,650	93,591	95,698
23	96,291	95,484	97,114	96,654	95,906	97,421	94,389	93,187	95,565
24	96,145	95,262	97,039	96,526	95,711	97,356	94,119	92,772	95,423
25	96,002	95,049	96,962	96,402	95,526	97,290	93,845	92,358	95,273
26	95,863	94,847	96,883	96,283	95,353	97,223	93,569	91,949	95,115
27	95,727	94,655	96,802	96,167	95,190	97,155	93,288	91,542	94,948
28	95,592	94,468	96,718	96,053	95,033	97,085	93,001	91,131	94,772
29	95,454	94,281	96,630	95,939	94,878	97,012	92,704	90,709	94,587
30	95,312	94,090	96,538	95,822	94,721	96,935	92,395	90,270	94,394
31	95,164	93,892	96,441	95,701	94,559	96,854	92,072	89,811	94,192
32	95,010	93,687	96,337	95,575	94,393	96,768	91,734	89,333	93,978
33	94,847	93,473	96,225	95,442	94,220	96,675	91,378	88,835	93,748
34	94,675	93,249	96,103	95,301	94,039	96,575	91,001	88,317	93,497
35	94,491	93,013	95,970	95,150	93,847	96,465	90,601	87,778	93,220
36	94,293	92,763	95,823	94,987	93,642	96,344	90,175	87,217	92,914
37	94,080	92,496	95,662	94,810	93,421	96,212	89,722	86,630	92,579
38	93,849	92,209	95,487	94,618	93,181	96,067	89,238	86,012	92,214
39	93,600	91,899	95,297	94,409	92,919	95,910	88,720	85,355	91,818
40	93,330	91,562	95,093	94,180	92,632	95,740	88,164	84,652	91,391
41	93,037	91,194	94,873	93,931	92,316	95,557	87,567	83,900	90,932
42	92,718	90,793	94,636	93,658	91,968	95,358	86,929	83,099	90,439
43	92,372	90,357	94,379	93,358	91,586	95,140	86,248	82,249	89,911
44	91,995	89,882	94,099	93,028	91,166	94,900	85,526	81,354	89,347
45	91,585	89,366	93,793	92,665	90,705	94,635	84,762	80,415	88,746
46	91,139	88,805	93,459	92,266	90,198	94,342	83,954	79,432	88,107
47	90,654	88,196	93,096	91,828	89,642	94,021	83,101	78,401	87,428
48	90,128	87,535	92,704	91,350	89,034	93,670	82,200	77,319	86,707
49	89,559	86,818	92,282	90,829	88,370	93,291	81,247	76,180	85,943
50	88,945	86,042	91,829	90,264	87,647	92,882	80,240	74,979	85,134
51	88,283	85,204	91,343	89,652	86,861	92,442	79,179	73,715	84,279
52	87,570	84,299	90,823	88,989	86,008	91,968	78,061	72,389	83,376
53	86,801	83,320	90,265	88,269	85,079	91,458	76,885	71,000	82,423
54	85,969	82,257	89,666	87,485	84,063	90,909	75,649	69,549	81,416
55	85,069	81,103	89,023	86,632	82,952	90,317	74,352	68,036	80,352
56	84,096	79,853	88,333	85,706	81,742	89,679	72,992	66,462	79,229
57	83,049	78,507	87,593	84,704	80,432	88,993	71,570	64,828	78,045
58	81,927	77,063	86,802	83,626	79,019	88,257	70,086	63,135	76,801
59	80,730	75,523	85,961	82,471	77,504	87,472	68,542	61,387	75,496
60	79,458	73,886	85,069	81,238	75,886	86,636	66,939	59,587	74,131
61	78,109	72,153	84,122	79,925	74,166	85,745	65,278	57,737	72,704
62	76,680	70,324	83,114	78,529	72,344	84,794	63,560	55,840	71,214
63	75,166	68,396	82,037	77,045	70,416	83,773	61,784	53,897	69,656
64	73,560	66,366	80,880	75,466	68,379	82,673	59,951	51,910	68,027
65	71,858	64,233	79,635	73,787	66,231	81,485	58,060	49,883	66,324
66	70,058	61,998	78,294	72,006	63,974	80,202	56,117	47,820	64,549
67	68,160	59,667	76,854	70,123	61,614	78,818	54,124	45,727	62,704
68	66,165	57,251	75,308	68,139	59,161	77,325	52,077	43,603	60,783
69	64,077	54,761	73,650	66,056	56,629	75,715	49,970	41,446	58,776
70	61,898	52,210	71,875	63,876	54,025	73,981	47,801	39,259	56,680
71	59,634	49,608	69,983	61,604	51,374	72,121	45,572	37,046	54,494
72	57,286	46,962	67,969	59,241	48,670	70,130	43,294	34,818	52,230
73	54,847	44,275	65,819	56,778	45,917	67,991	40,989	32,592	49,911
74	52,308	41,545	63,515	54,200	43,112	65,681	38,683	30,388	47,568
75	49,664	38,777	61,047	51,502	40,258	63,185	36,397	28,223	45,227
76	46,922	35,983	58,415	48,688	37,367	60,503	34,147	26,112	42,901
77	44,097	33,180	55,627	45,775	34,459	57,645	31,940	24,063	40,596
78	41,208	30,391	52,700	42,784	31,558	54,628	29,779	22,085	38,310
79	38,279	27,641	49,652	39,742	28,690	51,474	27,669	20,185	36,042
80	35,334	24,954	46,503	36,675	25,883	48,204	25,616	18,373	33,793
81	32,394	22,354	43,269	33,606	23,161	44,837	23,630	16,661	31,569
82	29,480	19,864	39,967	30,558	20,550	41,391	21,725	15,063	29,381
83	26,611	17,504	36,611	27,550	18,071	37,880	19,919	13,597	27,246
84	23,805	15,295	33,212	24,601	15,745	34,318	18,236	12,284	25,187
85	21,077	13,256	29,782	21,726	13,591	30,715	16,703	11,148	23,231

Table 5-3. Expectation of Life at Single Years of Age, by Color and Sex: United States, 1970

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	70.9	67.1	74.8	71.7	68.0	75.6	65.3	61.3	69.4
1	71.3	67.7	75.1	72.0	68.4	75.8	66.4	62.5	70.4
2	70.4	66.8	74.2	71.1	67.5	74.9	65.5	61.7	69.5
3	69.5	65.8	73.3	70.1	66.5	73.9	64.6	60.7	68.6
4	68.5	64.9	72.3	69.2	65.6	73.0	63.7	59.8	67.7
5	67.5	63.9	71.3	68.2	64.6	72.0	62.7	58.9	66.7
6	66.6	63.0	70.4	67.3	63.7	71.0	61.8	57.9	65.7
7	65.6	62.0	69.4	66.3	62.7	70.0	60.8	57.0	64.8
8	64.6	61.0	68.4	65.3	61.7	69.1	59.9	56.0	63.8
9	63.7	60.1	67.4	64.3	60.7	68.1	58.9	55.0	62.8
10	62.7	59.1	66.5	63.4	59.8	67.1	57.9	54.0	61.8
11	61.7	58.1	65.5	62.4	58.8	66.1	56.9	53.1	60.9
12	60.7	57.1	64.5	61.4	57.8	65.1	55.9	52.1	59.9
13	59.7	56.1	63.5	60.4	56.8	64.2	55.0	51.1	58.9
14	58.8	55.2	62.5	59.4	55.9	63.2	54.0	50.2	57.9
15	57.8	54.2	61.6	58.5	54.9	62.2	53.0	49.2	57.0
16	56.9	53.3	60.6	57.5	54.0	61.2	52.1	48.3	56.0
17	55.9	52.3	59.6	56.6	53.0	60.3	51.2	47.4	55.0
18	55.0	51.4	58.7	55.6	52.1	59.3	50.2	46.5	54.1
19	54.0	50.5	57.7	54.7	51.2	58.3	49.3	45.6	53.1
20	53.1	49.6	56.7	53.8	50.3	57.4	48.4	44.7	52.2
21	52.2	48.7	55.8	52.8	49.4	56.4	47.5	43.9	51.2
22	51.3	47.8	54.8	51.9	48.5	55.4	46.7	43.1	50.3
23	50.3	46.9	53.9	51.0	47.6	54.5	45.8	42.3	49.4
24	49.4	46.1	52.9	50.0	46.7	53.5	44.9	41.4	48.5
25	48.5	45.2	51.9	49.1	45.8	52.5	44.1	40.6	47.5
26	47.6	44.2	51.0	48.2	44.8	51.6	43.2	39.8	46.6
27	46.6	43.3	50.0	47.2	43.9	50.6	42.3	39.0	45.7
28	45.7	42.4	49.1	46.3	43.0	49.7	41.4	38.2	44.8
29	44.8	41.5	48.1	45.3	42.1	48.7	40.6	37.3	43.9
30	43.8	40.6	47.2	44.4	41.1	47.7	39.7	36.5	42.9
31	42.9	39.7	46.2	43.4	40.2	46.8	38.8	35.7	42.0
32	42.0	38.8	45.3	42.5	39.3	45.8	38.0	34.9	41.1
33	41.0	37.8	44.3	41.5	38.3	44.9	37.1	34.1	40.2
34	40.1	36.9	43.4	40.6	37.4	43.9	36.3	33.3	39.3
35	39.2	36.0	42.4	39.7	36.5	43.0	35.4	32.5	38.5
36	38.3	35.1	41.5	38.7	35.6	42.0	34.6	31.7	37.6
37	37.3	34.2	40.6	37.8	34.6	41.1	33.8	30.9	36.7
38	36.4	33.3	39.6	36.9	33.7	40.1	33.0	30.1	35.9
39	35.5	32.4	38.7	36.0	32.8	39.2	32.1	29.3	35.0
40	34.6	31.6	37.8	35.1	31.9	38.3	31.3	28.6	34.2
41	33.7	30.7	36.9	34.1	31.0	37.3	30.6	27.8	33.3
42	32.9	29.8	36.0	33.2	30.2	36.4	29.8	27.1	32.5
43	32.0	29.0	35.1	32.3	29.3	35.5	29.0	26.4	31.7
44	31.1	28.1	34.2	31.5	28.4	34.6	28.2	25.6	30.9
45	30.2	27.3	33.3	30.6	27.6	33.7	27.5	24.9	30.1
46	29.4	26.4	32.4	29.7	26.7	32.8	26.8	24.2	29.3
47	28.5	25.6	31.5	28.8	25.9	31.9	26.0	23.5	28.6
48	27.7	24.8	30.6	28.0	25.0	31.0	25.3	22.9	27.8
49	26.9	24.0	29.8	27.2	24.2	30.1	24.6	22.2	27.0
50	26.1	23.2	28.9	26.3	23.4	29.3	23.9	21.6	26.3
51	25.2	22.4	28.1	25.5	22.6	28.4	23.2	20.9	25.5
52	24.5	21.7	27.2	24.7	21.8	27.5	22.5	20.3	24.8
53	23.7	20.9	26.4	23.9	21.1	26.7	21.9	19.7	24.1
54	22.9	20.2	25.6	23.1	20.3	25.8	21.2	19.1	23.4
55	22.1	19.5	24.8	22.3	19.6	25.0	20.6	18.5	22.7
56	21.4	18.8	23.9	21.6	18.9	24.2	20.0	17.9	22.0
57	20.6	18.1	23.1	20.8	18.2	23.4	19.3	17.3	21.3
58	19.9	17.4	22.3	20.1	17.5	22.6	18.7	16.8	20.7
59	19.2	16.8	21.6	19.3	16.8	21.8	18.2	16.3	20.0
60	18.5	16.1	20.8	18.6	16.2	21.0	17.6	15.7	19.4
61	17.8	15.5	20.0	17.9	15.5	20.2	17.0	15.2	18.7
62	17.1	14.9	19.2	17.2	14.9	19.4	16.5	14.7	18.1
63	16.5	14.3	18.5	16.6	14.3	18.6	15.9	14.2	17.5
64	15.8	13.7	17.8	15.9	13.7	17.9	15.4	13.8	16.9
65	15.2	13.1	17.0	15.2	13.1	17.1	14.9	13.3	16.4
66	14.6	12.6	16.3	14.6	12.6	16.4	14.4	12.9	15.8
67	13.9	12.1	15.6	14.0	12.1	15.7	13.9	12.4	15.2
68	13.4	11.6	14.9	13.4	11.5	15.0	13.4	12.0	14.7
69	12.8	11.1	14.2	12.8	11.0	14.3	13.0	11.6	14.2
70	12.2	10.6	13.6	12.2	10.5	13.6	12.5	11.2	13.7
71	11.7	10.1	12.9	11.6	10.1	12.9	12.1	10.9	13.2
72	11.1	9.6	12.3	11.1	9.6	12.3	11.7	10.5	12.8
73	10.6	9.2	11.7	10.5	9.1	11.6	11.4	10.2	12.4
74	10.1	8.8	11.1	10.0	8.7	11.0	11.0	9.9	11.9
75	9.6	8.4	10.5	9.5	8.3	10.5	10.7	9.7	11.5
76	9.1	8.0	10.0	9.0	7.9	9.9	10.3	9.4	11.1
77	8.7	7.6	9.4	8.6	7.5	9.4	10.0	9.2	10.7
78	8.2	7.3	8.9	8.1	7.1	8.9	9.7	8.9	10.3
79	7.8	6.9	8.5	7.7	6.8	8.4	9.4	8.7	10.0
80	7.4	6.6	8.0	7.3	6.5	7.9	9.1	8.5	9.6
81	7.1	6.3	7.6	6.9	6.2	7.5	8.8	8.3	9.2
82	6.7	6.1	7.1	6.6	5.9	7.0	8.6	8.2	8.9
83	6.4	5.8	6.8	6.3	5.6	6.7	8.3	8.0	8.5
84	6.1	5.6	6.4	5.9	5.4	6.3	8.0	7.8	8.2
85	5.8	5.3	6.1	5.7	5.2	6.0	7.7	7.5	7.8

Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1970

[Alaska and Hawaii included for 1959 and 1960. 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" cover only Negroes. However, in no case did the Negro 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								
	1970	1969	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	97,990	97,867	97,408	96,931	95,188	93,768	91,975	87,674	86,655
5	97,663	97,547	97,015	96,403	94,150	91,738	88,842	82,972	80,864
10	97,431	97,315	96,758	96,069	93,601	90,810	87,530	81,519	79,109
15	97,195	97,082	96,503	95,728	93,089	90,074	86,546	80,549	78,037
20	96,482	96,338	95,908	95,104	92,293	88,904	84,997	79,116	76,376
25	95,526	95,368	95,106	94,294	91,241	87,371	83,061	77,047	73,907
30	94,721	94,548	94,401	93,489	90,092	85,707	80,888	74,810	71,219
35	93,847	93,680	93,589	92,543	88,713	83,812	78,441	72,108	68,245
40	92,632	92,446	92,427	91,173	86,880	81,457	75,733	68,848	64,954
45	90,705	90,502	90,533	89,002	84,285	78,345	72,696	65,115	61,369
50	87,647	87,452	87,424	85,601	80,521	74,288	69,107	60,741	57,274
55	82,952	82,730	82,463	80,496	75,156	68,981	64,574	55,622	52,491
60	75,886	75,687	75,485	73,172	67,787	61,933	58,498	48,987	46,452
65	66,231	65,894	65,834	63,541	58,305	52,964	50,663	40,862	39,245
70	54,029	53,851	53,825	51,735	46,739	41,880	40,873	31,527	30,640
75	40,258	39,556	40,207	38,104	33,404	29,471	29,205	21,585	21,387
80	25,883	25,615	25,993	24,005	19,860	17,221	17,655	12,160	12,266
85	13,591	13,754	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	96,544	96,482	95,301	94,911	91,696	91,268	89,499	78,065	74,674
5	95,986	95,936	94,570	93,921	89,920	88,412	85,195	68,589	64,385
10	95,688	95,624	94,234	93,453	89,211	87,311	83,768	66,377	61,730
15	95,364	95,268	93,874	92,965	88,417	86,152	82,332	64,478	59,667
20	94,300	94,150	93,108	91,941	86,770	83,621	79,057	61,426	56,733
25	92,358	92,309	91,825	90,285	84,055	79,516	74,540	57,736	53,285
30	90,270	90,230	90,270	88,327	80,865	75,083	70,344	54,073	49,867
35	87,778	87,606	88,331	85,940	77,185	70,049	65,873	49,865	46,541
40	84,652	84,214	85,744	82,832	72,830	64,710	61,353	45,414	42,989
45	80,415	79,773	82,075	78,686	67,514	58,432	56,589	40,563	39,230
50	74,979	74,290	77,239	72,891	60,766	51,748	51,880	35,427	34,766
55	68,036	67,185	70,351	65,122	52,867	44,436	46,581	29,754	29,987
60	59,587	58,402	61,669	55,535	44,370	36,790	40,506	23,750	24,194
65	49,883	48,134	51,392	45,198	35,912	29,314	34,042	17,806	19,015
70	39,259	36,315	39,914	35,018	27,688	21,741	26,923	12,295	13,829
75	28,223	23,627	29,064	25,472	19,765	14,419	18,854	7,494	8,892
80	18,373	15,751	19,994	16,904	12,352	8,239	11,615	3,894	4,831
85	11,148	9,970	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	98,447	98,392	98,036	97,645	96,211	95,037	93,608	89,774	88,939
5	98,187	98,119	97,709	97,199	95,309	93,216	90,721	85,349	83,426
10	98,030	97,957	97,525	96,960	94,890	92,466	89,564	83,979	81,723
15	97,893	97,814	97,375	96,756	94,534	91,894	88,712	83,093	80,680
20	97,610	97,527	97,135	96,454	93,984	90,939	87,281	81,750	78,978
25	97,290	97,207	96,844	96,072	93,228	89,524	85,163	79,865	76,588
30	96,935	96,862	96,499	95,605	92,320	87,972	82,740	77,676	73,887
35	96,465	96,385	96,026	94,977	91,211	86,248	80,206	75,200	70,971
40	95,740	95,651	95,326	94,080	89,805	84,256	77,624	72,425	67,935
45	94,635	94,505	94,228	92,725	87,920	81,780	74,871	69,341	64,677
50	92,882	92,793	92,522	90,685	85,267	78,572	71,547	65,629	61,005
55	90,317	90,270	89,967	87,699	81,520	74,321	67,323	61,053	56,509
60	86,636	86,643	86,339	83,279	76,200	68,462	61,704	54,900	50,752
65	81,485	81,460	80,739	76,773	68,701	60,499	54,299	47,086	43,806
70	73,981	73,806	72,507	67,545	58,363	49,932	44,638	37,482	35,206
75	63,185	62,575	60,461	54,397	44,685	37,024	32,777	26,569	25,362
80	48,204	47,859	44,676	38,026	28,882	23,053	20,492	15,929	15,349
85	30,715	30,290	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	97,230	97,142	96,172	95,913	93,318	92,796	91,251	81,493	78,525
5	96,751	96,691	95,543	95,055	91,710	90,185	87,149	72,768	68,056
10	96,528	96,471	95,265	94,679	91,092	89,201	85,607	70,508	65,111
15	96,342	96,269	95,057	94,343	90,363	88,088	83,954	68,218	62,384
20	95,934	95,814	94,660	93,544	88,505	85,078	80,154	64,764	59,053
25	95,273	95,165	94,005	92,336	85,961	81,067	75,359	61,430	55,795
30	94,394	94,255	93,070	90,799	83,147	76,816	70,633	58,281	52,773
35	93,220	92,878	91,670	88,805	79,879	72,192	65,857	54,595	49,567
40	91,391	90,877	89,676	86,052	75,908	67,271	61,130	50,568	46,146
45	88,746	88,130	86,793	82,257	71,061	61,365	56,230	45,947	42,279
50	85,134	84,463	82,979	77,007	64,886	54,920	50,780	40,886	37,681
55	80,352	79,643	77,362	70,196	57,419	47,074	44,742	35,415	33,124
60	74,131	73,160	69,941	61,758	49,102	38,761	37,954	28,908	27,524
65	66,324	64,459	60,825	52,358	40,718	30,852	31,044	22,302	21,995
70	56,680	52,339	51,274	42,612	32,579	23,341	24,107	15,871	16,140
75	45,227	40,055	40,540	32,981	24,668	16,576	17,216	10,657	11,066
80	33,793	30,879	30,315	23,712	17,157	10,822	11,151	6,324	6,708
85	23,231	21,626	19,744	15,550	10,658	6,033	5,972	3,029	3,567

Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1970—Con.

[Alaska and Hawaii included for 1959 and 1960. 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" cover only Negros. However, in no case did the Negro population comprise less than 95 percent of the corresponding "all other" population]

AGE, COLOR, AND SEX	AVERAGE NUMBER OF YEARS OF LIFE REMAINING								
	1970	1969	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
WHITE, MALE									
0	68.0	67.8	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1	68.4	68.2	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5	64.6	64.4	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10	59.8	59.6	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15	54.9	54.7	54.93	54.18	52.33	50.39	49.74	46.91	46.25
20	50.3	50.1	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25	45.8	45.6	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30	41.1	41.0	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35	36.5	36.3	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40	31.9	31.8	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45	27.6	27.4	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50	23.4	23.3	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55	19.6	19.5	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60	16.2	16.0	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65	13.1	13.0	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70	10.5	10.4	10.29	10.07	9.42	9.20	9.51	8.83	9.03
75	8.3	8.2	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80	6.5	6.3	5.89	5.88	5.38	5.26	5.47	5.09	5.10
85	5.2	4.6	4.34	4.35	4.02	3.99	4.06	3.88	3.81
ALL OTHER, MALE									
0	61.3	60.5	61.48	58.91	52.33	47.55	47.14	34.05	32.54
1	62.5	61.7	63.50	61.06	56.05	51.08	51.63	42.53	42.46
5	58.9	58.0	59.98	57.69	53.13	48.69	50.18	44.25	45.06
10	54.0	53.2	55.19	52.96	48.54	44.27	45.99	40.65	41.90
15	49.2	48.4	50.39	48.23	43.95	39.83	41.75	36.77	38.26
20	44.7	43.9	45.78	43.73	39.74	35.95	38.36	33.46	35.11
25	40.6	39.8	41.38	39.49	35.94	32.67	35.54	30.44	32.21
30	36.5	35.6	37.05	35.31	32.25	29.45	32.51	27.33	29.25
35	32.5	31.6	32.81	31.21	28.67	26.39	29.54	24.42	26.16
40	28.6	27.8	28.72	27.29	25.23	23.36	26.53	21.57	23.12
45	24.9	24.2	24.89	23.59	22.02	20.59	23.55	18.85	20.09
50	21.6	20.8	21.28	20.25	19.18	17.92	20.47	16.21	17.34
55	18.5	17.7	18.11	17.36	16.67	15.46	17.50	13.82	14.69
60	15.7	14.9	15.29	14.91	14.38	13.15	14.74	11.67	12.62
65	13.3	12.6	12.84	12.75	12.18	10.87	12.07	9.74	10.38
70	11.2	10.9	10.81	10.74	10.06	8.78	9.58	8.00	8.33
75	9.7	10.4	8.93	8.83	8.09	6.99	7.61	6.58	6.60
80	8.5	9.4	6.87	7.07	6.46	5.42	5.83	5.53	5.12
85	7.5	8.4	5.08	5.38	5.08	4.30	4.53	4.48	4.04
WHITE, FEMALE									
0	75.6	75.1	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1	75.8	75.3	74.68	72.77	68.93	64.93	61.51	58.69	56.39
5	72.0	71.5	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10	67.1	66.7	66.05	64.26	60.85	57.65	55.17	53.57	52.15
15	62.2	61.8	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20	57.4	56.9	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25	52.5	52.1	51.45	49.77	46.78	44.25	42.55	40.88	40.05
30	47.7	47.3	46.63	45.00	42.21	39.99	38.72	36.96	36.42
35	43.0	42.5	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40	38.3	37.8	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45	33.7	33.2	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50	29.3	28.8	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55	25.0	24.5	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60	21.0	20.5	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65	17.1	16.6	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70	13.6	13.0	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75	10.5	9.9	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80	7.9	7.1	6.67	6.59	5.88	5.63	5.70	5.35	5.50
85	6.0	4.8	4.66	4.83	4.34	4.24	4.24	4.06	4.10
ALL OTHER, FEMALE									
0	69.4	68.4	66.47	62.70	55.51	49.51	46.92	37.67	35.04
1	70.4	69.4	68.10	64.37	58.47	52.33	50.39	45.15	43.54
5	66.7	65.7	64.54	60.93	55.47	49.81	48.70	46.42	46.04
10	61.8	60.8	59.72	56.17	50.83	45.33	44.54	42.84	43.02
15	57.0	56.0	54.85	51.36	46.22	40.87	40.36	39.18	39.79
20	52.2	51.2	50.07	46.77	42.14	37.22	37.15	36.14	36.89
25	47.5	46.5	45.40	42.35	38.31	33.93	34.35	32.97	33.90
30	42.9	42.0	40.83	38.02	34.52	30.67	31.48	29.61	30.70
35	38.5	37.5	36.41	33.82	30.83	27.47	28.58	26.44	27.52
40	34.2	33.3	32.16	29.82	27.31	24.30	25.60	23.34	24.37
45	30.1	29.3	28.14	26.07	24.00	21.39	22.61	20.43	21.36
50	26.3	25.4	24.31	22.67	21.04	18.60	19.76	17.65	18.67
55	22.7	21.8	20.89	19.62	18.44	16.27	17.09	14.98	15.88
60	19.4	18.5	17.83	16.95	16.14	14.22	14.69	12.78	13.60
65	16.4	15.7	15.12	14.54	13.95	12.24	12.41	10.82	11.38
70	13.7	13.7	12.46	12.29	11.81	10.38	10.25	9.22	9.62
75	11.5	12.1	10.10	10.15	9.80	8.62	8.37	7.55	7.90
80	9.6	10.0	7.66	8.15	8.00	6.90	6.58	6.05	6.48
85	7.8	8.2	5.44	6.15	6.38	5.48	5.22	5.09	5.10

Table 5-5. Estimated Average Length of Life in Years, by Color and Sex: Death-Registration States, 1900-1928 and United States, 1929-70

[Estimates based on life table values shown in table 5-4]

AREA AND YEAR	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
UNITED STATES									
1970	70.9	67.1	74.8	71.7	68.0	75.6	65.3	61.3	69.4
1969	70.4	66.8	74.3	71.3	67.8	75.1	64.3	60.5	68.4
1968	70.2	66.6	74.0	71.1	67.5	74.9	63.7	60.1	67.5
1967	70.5	67.0	74.2	71.3	67.8	75.1	64.6	61.1	68.2
1966	70.1	66.7	73.8	71.0	67.6	74.7	64.0	60.7	67.4
1965	70.2	66.8	73.7	71.0	67.6	74.7	64.1	61.1	67.4
1964	70.2	66.9	73.7	71.0	67.7	74.6	64.1	61.1	67.2
1963[1]	69.9	66.6	73.4	70.8	67.5	74.4	63.6	60.9	66.5
1962[1]	70.0	66.8	73.4	70.9	67.6	74.4	64.1	61.5	66.8
1961	70.2	67.0	73.6	71.0	67.8	74.5	64.4	61.9	67.0
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]Figures by color exclude data for residents of New Jersey; see Technical Appendix.

FILE

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VITAL STATISTICS OF THE UNITED STATES, 1970–VOLUME II–MORTALITY

Part A

Section 1. General Mortality

Summary tables containing crude, age-specific, and age-adjusted death rates; death rates by cause; maternal mortality. Detailed tabulations of deaths by cause for the United States and each State. Data shown by age, sex, color and race, cause of death, and month.

Section 2. Infant Mortality

Tabulations of infant deaths and infant mortality rates by age, color, sex, cause of death, and by State. Additional frequency tables by month of death and by population-size groups in metropolitan and nonmetropolitan counties.

Section 3. Fetal Mortality

Tabulations of numbers of deaths and ratios by age of mother, legitimacy, geographic areas; fetal death rates by plurality. Numbers of deaths by additional characteristics–month, birth order, attendant, period of gestation, birth weight.

Section 4. Accident Mortality

Deaths from motor vehicle accidents by type of vehicle and from nontransport accidents by place of accident. Figures tabulated by age, color, and sex for the United States and by color and sex for each State.

Section 5. Life Tables (Separate release)

Abridged life tables and interpolated values of the l_x and ℓ_x by single years of age for the national population by color and sex.

Section 6. Technical Appendix

Text discussion of factors affecting the collection, classification, and interpretation of the mortality statistics published in Volume II. Includes population tables for computing vital rates.

Part B

Section 7. Geographic Detail for Mortality

Total number of deaths, deaths from selected causes, infant deaths, neonatal death, fetal deaths, and selected rates and ratios. Tabulations shown by each State, county, specified urban places, metropolitan and nonmetropolitan counties, population-size groups, and standard metropolitan statistical areas.

Section 8. Puerto Rico and Virgin Islands

Trend of the crude death rate. Frequency tabulations for most characteristics shown in other sections of Volume II.

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