

VITAL
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1967

VOLUME II-SECTION 5

Life Tables



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

PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

NATIONAL CENTER FOR HEALTH STATISTICS

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Years:							
1900-1967 -----							6 ¹
1967 only-----		1	2	3	4		
Specified years and 1967-----						5 ²	
Type of entry:							
Proportion of dying (${}_nq_x$)-----		1	2				
Number surviving (${}_nL_x$)-----		1	2	3		5	
Number dying (${}_nd_x$)-----		1	2				
Stationary population (${}_nL_x$ and T_x)-----		1	2				
Average remaining lifetime (e_x^o)-----		1	2		4	5	
Estimated average length of life (e_0^o)-----							6
Characteristics:							
Age by:							
Single years-----				3	4		
5-year intervals-----		1	2			5	
Sex-color specific-----			2	3	4	5	6 ³
Sex specific-----		1		3	4		6
Color specific-----			2	3	4		6 ³
Total population-----		1		3	4		6

¹Entire United States for 1929-67; death-registration States for 1900-1928.

²Entire United States for specified years from 1929 to 1967; death-registration States for specified years from 1900 to 1921.

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

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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 1967 assumes a hypothetical cohort subject throughout its lifetime to the age-specific mortality rates prevailing for the actual population in 1967. 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 post-censal 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. 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 nonwhite 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 total whites and total nonwhites, 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 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 U.S. 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 1967

The two basic sources of data used in the preparation of the abridged U.S. life tables for 1967 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

Expectation of life.—Perhaps the best known of the life table statistics are the estimates of expectation of life (e_x), that is, the average remaining lifetime, in years, for per-

¹National 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.

²National 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, D.C., 1966.

³U.S. Bureau of the Census: Estimates of the population of the United States, by age, color, and sex, July 1, 1967. *Current Population Reports*, Series P-25, No. 385. Washington, D.C., 1968.

sons who have attained a given age (x). Values of expectation of life at specified ages in 1967 are shown for the total U.S. population, total males, and total females in table 5-1 and for total whites, white males, white females, total nonwhites, nonwhite males, and nonwhite females in table 5-2. In addition, values of expectation of life at single years of age, by color and sex, are shown in table 5-4.

The expectation of life at birth (e_0) is the most widely used of the expectation of life values. This measure represents the average number of years that the members of the life table cohort may expect to live at the time of birth. In other words, it is the average age at death of the life table cohort. Based on the mortality experience of the population during 1967, the expectation of life at birth is 67.8 years for white males, 75.1 for white females, 61.1 for nonwhite males, and 68.2 for nonwhite females. These values reflect the higher mortality of males over females and of nonwhites over whites. Expectation of life at birth for white females is 7.3 years longer than that for white males, and the corresponding excess for nonwhite females is 7.1 years. However, because of the higher mortality of males over females, the life expectancy at birth for nonwhite females exceeds that for white males by 0.4 year.

Expectation of life at birth is strongly affected by the relatively large number of deaths occurring during the first year of life. In comparing the mortality experience of two (or more) populations, it is sometimes preferable to consider expectation of life at age 1 (e_1) since this measure is not affected by the infant mortality rate. Indeed, as shown in tables 5-1 and 5-2, (e_1) is higher than (e_0) in all population groups; those persons who survive the hazards of infancy exhibit an increase in the average number of years of life remaining over the number expected when they were 1 year younger. The 1967 values of expectation of life at age 1 are 68.3 years for white males, 75.3 for white females, 62.6 for nonwhite males, and 69.5 for nonwhite females. The increase in expectation of life at age 1 over that at age 0 is substantial for nonwhite males and females (1.5 and 1.3 years, respectively) but considerably smaller for white males and females (0.5 year and 0.2 year, respectively); this reflects the higher infant mortality experience by the nonwhite population.

Values of expectation of life for single years of age are presented in table 5-4. It may be of interest for certain purposes, for example, to examine average remaining lifetime at ages 21, 62, and 65. These ages may be regarded as representing, respectively, the attainment of adulthood, the minimum retirement age prescribed by the Social Security Act, and the normal retirement age. The 1967 values of expectation of life for age 21 are 49.3 years for white males, 55.9 years for white females; 43.9 years for nonwhite males, and 50.4 years for nonwhite females. Corresponding values for age 62 are 14.8, 18.8, 14.2, and 17.5 years; for age 65 they are 13.0, 16.5, 12.7, and 15.8 years.

The concept "expectation of life" is misleading if it implies the notion of forecasting. It is important to understand that expectation of life values forecast average remaining lifetime only for the hypothetical cohort of the life table. Forecasts of expectation of life in 1967 for any actual population must take into consideration not only mortality experience in 1967 but also mortality experience in subsequent calendar years.

Median length of life.—Another possible standard for comparing longevity among different populations is provided by the median length of life at birth, or "probable lifetime," which is the age at which exactly half of the members of the original life table cohort have died. In other words, it is the median age at death of the life table cohort. For the 1967 abridged life tables, which start with cohorts of 100,000 live births, the median length of life at birth is the age at which there remain exactly 50,000 survivors. Readily computed from the l_x values in table 5-3, median length of life at birth, on the basis of the 1967 mortality rates, is 71.4 years for white males, 79.2 for white females, 65.1 for nonwhite males, and 70.9 for nonwhite females. In computing median length of life at birth, it is assumed that deaths are evenly distributed within the age interval containing the median age.

A comparison of these "probable lifetime" measures with those for expectation of life at birth shows that the former exceed the latter for each population group. Thus median length of life at birth for white males in 1967 is 3.6 years longer than expectation of life at birth; for white females, 4.1 years; for nonwhite males, 4.0; and for nonwhite females, 2.7. These differences are, in large part, brought about by the relatively high toll of mortality to the cohort during the first year of life.

Survivors to specified ages.—Another value which can be readily determined from the life table is the number (or percentage) of persons in the original cohort surviving to a specified age. The l_x columns in tables 5-1 to 5-3 contain such data. Thus on the basis of the 1967 life tables, the percentage of white males in a cohort of 100,000 live births surviving to age 1 is 97.8; white females, 98.3; nonwhite males, 96.1; and nonwhite females, 96.8. At age 21 respective percentages are 96.1, 97.4, 93.7, and 95.4, and at age 65 respective percentages are 66.0, 81.5, 50.2, and 64.3.

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 in-

clude both Alaska and Hawaii for each year (table 5-5). Data for each year shown in table 5-6 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 5-5 shows expectation of life values (e_x) at specified ages as well as numbers of survivors (l_x) to specified ages for selected years during the period 1900 to 1967. Although life table values for periods prior to the 1929-31 life tables are not strictly comparable with those for later periods, certain trends may be noted.

Life expectancy at birth for 1967 was 70.5 years, 0.4 year above that for 1966. An examination of the values by color and sex shows that the life expectancy at birth increased for each of the four color-sex groups. The increase was 0.2 year for white males; 0.4 year for white females; 0.4 year for nonwhite males; and 0.8 year for nonwhite females. Thus from 1966 to 1967 the gain in life expectancy for the nonwhite population was about double that experienced by the white population.

In the 1900-1902 life tables the expectation of life at birth for the white female was 16.0 years greater than for the nonwhite female; in the 1967 life tables the differential is 6.9 years. Comparable figures for males are, respectively, 15.7 and 6.7 years.

In making comparisons between 1900-1902 life table values and current figures, it should be kept in mind that the former data were based on the death-registration States only. The values shown in the 1900-1902 life tables are probably not totally reflective of the entire population. This is particularly true in the case of the nonwhite group because the mortality data covered mainly the urban Northeast and excluded the majority of the nonwhite living in the Southern States. Therefore complete comparability between 1900-1902 values and current values does not exist.

Females in both color groups during the period 1900 to 1967 have had greater increases in expectation of life at birth than have males. In the 1900-1902 life tables expectation of life at birth for the white female was 2.9 years longer than for the white male; for the nonwhite female it was 2.5 years in excess of that for the nonwhite male. Comparable figures for the 1967 life tables are, respectively, 7.3 and 7.1 years.

For all color-sex groups, expectation of life values between 1900 and 1967 have increased not only at age 0 but also at every successive age. An inspection of table 5-5 shows that increases are generally greatest for the younger elements of the population; but the recent values even at relatively older ages are substantially higher than in 1900-1902. The increase in expectation of life at age 20 from 1900 to the present is 8.0 years for white males, 13.1 for white females, 9.7 for nonwhite males, and 14.4 for nonwhite females. For the same population groups, respective increases at age 65 are 1.5, 4.3, 2.3, and 4.4 years.

Trends in survivorship may also be determined by an examination of the proportion of persons in the original cohort who survive to specified ages. Between 1900 and

1967, the proportion of the life table cohort reaching age 65 has increased by 68 percent for white males, 86 percent for white females, 164 percent for nonwhite males, and 192 percent for nonwhite females. It is apparent that the greater relative mortality improvement has occurred in the nonwhite population. Although mortality rates for nonwhites are still substantially higher than those for whites, comparatively greater strides have been made in the reduction of the nonwhite mortality rates.

There has been an increasing interest in data on average length of life (e_0) for single calendar years prior to the initiation of the annual abridged life table series in 1945. In order to meet these needs, the estimated figures given in table 5-6 were computed.⁴ From these estimates, average annual increases in expectation of life at birth may be computed. Since the turn of the century the total population has, on the average, each year added 0.35 year to its expectation of life at birth. During the same period, white males have added 0.32 year per annum; white females, 0.39; nonwhite males, 0.43; and nonwhite females, 0.52. Such annual increases have not, however, been evenly distributed over the period since 1900. Average annual increases during 1957 to 1967 are, for example, less marked than those for 1947 to 1957. Average annual increases in expectation of life at birth for 1947 to 1957 were 0.20 year per annum for white males, 0.32 for white females, 0.28 for nonwhite males, and 0.36 for nonwhite females. Corresponding figures for 1957 to 1967 are, respectively, 0.06, 0.14, 0.04, and 0.27 year. These statistics show that increases in expectation of life at birth are still taking place but at a much slower rate than was previously observed.

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 the race 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 1967 abridged life tables.

⁴For 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 0.0100—out of every 1,000 males alive and exactly 20 years old at the beginning of the period 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, 97,486 will complete the first year of life and enter the second; 97,113 will begin the sixth year; 95,923 will reach age 20; and 13,596 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, 2,514 die in the first year of life, 373 in the succeeding 4 years, 958 in the 5-year period between exact ages 20 and 25, and 13,596 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 birth-

day 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 477,250. 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 477,250 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 4,758,560 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 6,695,679.

Column 7—Average remaining lifetime (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 477,250 for males in the age interval 20-25 is the total number of years lived between the 20th and 25th birthdays by the 95,923 (column 3) who reached the 20th birthday out of 100,000 males born alive. The corresponding figure (4,758,560) in column 6 is the total number of years lived after attaining age 20 by the 95,923 reaching that age. This number of years divided by the number of persons (4,758,560 divided by 95,923) 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 in table 5-2 that the average remaining lifetime of white persons is greater than that of nonwhite, one should not conclude that the oldest ages reached by white persons necessarily exceed those attained by the most long-lived nonwhite. The difference in the average length of life results from the fact that a greater proportion of nonwhite 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 nonwhite; yet the average length of life remaining at age 65 is nearly the same for both groups.

SECTION 5 - LIFE TABLES

5-7

Table 5-1. Abridged Life Tables for Total, Male, and Female Population: United States, 1967.

Age interval	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+n	nq_x	l_x	n^d_x	n^L_x	T_x	e_x
TOTAL						
0-1	0.0224	100,000	2,239	98,013	7,045,137	70.5
1-5	.0034	97,761	337	390,237	6,948,124	71.1
5-10	.0021	97,424	205	486,567	6,557,887	67.3
10-15	.0020	97,219	198	485,648	6,071,320	62.4
15-20	.0051	97,021	497	483,965	5,585,672	57.6
20-25	.0067	96,524	645	481,037	5,101,707	52.9
25-30	.0068	95,879	654	477,783	4,620,670	48.2
30-35	.0085	95,225	805	474,206	4,142,887	43.5
35-40	.0123	94,420	1,158	469,397	3,668,681	38.9
40-45	.0184	93,262	1,712	462,336	3,199,284	34.3
45-50	.0285	91,550	2,610	451,700	2,736,948	29.9
50-55	.0440	88,940	3,914	435,493	2,285,248	25.7
55-60	.0668	85,026	5,663	411,753	1,849,755	21.8
60-65	.0968	79,363	7,680	378,539	1,438,002	18.1
65-70	.1430	71,683	10,251	333,759	1,059,463	14.8
70-75	.2071	61,432	12,721	276,276	725,704	11.8
75-80	.2847	48,711	13,870	209,469	449,428	9.2
80-85	.4031	34,841	14,043	138,386	239,959	6.9
85 and over	1.0000	20,798	20,798	101,573	101,573	4.9
MALE						
0-1	0.0251	100,000	2,514	97,756	6,695,679	67.0
1-5	.0038	97,486	373	389,055	6,597,923	67.7
5-10	.0024	97,113	237	484,932	6,208,968	63.9
10-15	.0026	96,876	248	483,836	5,723,936	59.1
15-20	.0073	96,628	705	481,540	5,240,100	54.2
20-25	.0100	95,923	958	477,250	4,758,560	49.6
25-30	.0095	94,965	903	472,562	4,281,310	45.1
30-35	.0109	94,062	1,029	467,842	3,808,748	40.5
35-40	.0155	93,033	1,439	461,809	3,340,906	35.9
40-45	.0233	91,594	2,138	453,021	2,879,097	31.4
45-50	.0368	89,456	3,289	439,685	2,426,076	27.1
50-55	.0584	86,167	5,029	419,018	1,986,591	23.1
55-60	.0901	81,138	7,307	398,369	1,567,373	19.3
60-65	.1314	75,851	9,702	345,908	1,179,004	16.0
65-70	.1883	64,129	12,077	291,202	833,096	13.0
70-75	.2682	52,052	15,962	225,742	541,894	10.4
75-80	.3458	39,090	13,173	157,437	316,152	8.3
80-85	.4544	24,917	11,321	95,188	159,715	6.4
85 and over	1.0000	13,596	13,596	63,527	63,527	4.7
FEMALE						
0-1	0.0195	100,000	1,950	98,283	7,417,473	74.2
1-5	.0031	98,050	299	391,476	7,319,190	74.6
5-10	.0018	97,751	172	488,283	6,927,714	70.9
10-15	.0015	97,579	145	487,551	6,439,431	66.0
15-20	.0029	97,434	284	486,505	5,951,880	61.1
20-25	.0036	97,150	348	484,909	5,465,375	56.3
25-30	.0042	96,802	408	483,035	4,980,466	51.5
30-35	.0061	96,394	584	480,591	4,497,431	46.7
35-40	.0092	95,810	883	476,986	4,016,840	41.9
40-45	.0136	94,927	1,294	471,614	3,539,854	37.3
45-50	.0207	93,633	1,938	463,636	3,068,240	32.8
50-55	.0303	91,695	2,783	451,902	2,604,604	28.4
55-60	.0445	88,912	3,952	435,279	2,152,702	24.2
60-65	.0647	84,960	5,499	411,848	1,717,423	20.2
65-70	.1034	79,461	8,214	377,904	1,305,575	16.4
70-75	.1574	71,247	11,217	329,602	927,671	13.0
75-80	.2374	60,030	14,254	265,862	598,069	10.0
80-85	.3658	45,776	16,744	186,858	332,207	7.3
85 and over	1.0000	29,032	29,032	145,349	145,349	5.0

Table 5-2. Abridged Life Tables by Color and Sex: United States, 1967

Age interval	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime	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	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)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to $x+n$	nq_x	l_x	n^d_x	nL_x	T_x	e_x	x to $x+n$	nq_x	l_x	n^d_x	nL_x	T_x	e_x
TOTAL WHITE							TOTAL NONWHITE						
0-1	0.0196	100,000	1,964	99,232	7,132,108	71.3	0-1	0.0358	100,000	3,583	96,943	6,460,223	64.6
1-5	.0031	98,036	299	381,437	7,033,876	71.7	1-5	.0055	96,417	526	384,356	6,365,280	65.0
5-10	.0020	97,737	193	488,166	6,642,439	68.0	5-10	.0028	95,891	271	478,713	5,978,924	62.4
10-15	.0019	97,544	188	487,297	6,154,273	63.1	10-15	.0027	95,620	255	477,521	5,500,211	57.5
15-20	.0049	97,356	476	485,683	5,666,976	58.2	15-20	.0067	95,365	635	475,401	5,022,690	52.7
20-25	.0060	96,880	585	482,951	5,181,293	53.5	20-25	.0114	94,730	1,078	471,098	4,547,289	48.0
25-30	.0057	96,295	551	480,106	4,698,342	48.8	25-30	.0149	93,652	1,393	464,263	4,078,191	43.5
30-35	.0068	95,744	651	477,169	4,218,236	44.1	30-35	.0205	92,259	1,894	458,793	3,611,268	39.1
35-40	.0102	95,093	974	473,202	3,741,067	39.3	35-40	.0276	90,365	2,495	445,946	3,154,475	34.9
40-45	.0159	94,119	1,500	467,137	3,267,865	34.7	40-45	.0383	87,870	3,362	431,347	2,708,529	30.8
45-50	.0258	92,619	2,391	457,576	2,800,728	30.2	45-50	.0523	84,508	4,418	412,118	2,277,182	26.9
50-55	.0407	90,228	3,673	442,518	2,343,152	26.0	50-55	.0741	80,090	5,933	386,366	1,865,064	23.3
55-60	.0627	86,555	5,423	420,011	1,900,634	22.0	55-60	.1046	74,157	7,756	352,085	1,478,698	19.9
60-65	.0925	81,132	7,504	387,879	1,480,623	18.2	60-65	.1391	66,401	9,237	309,400	1,126,613	17.0
65-70	.1360	73,628	10,015	344,145	1,092,744	14.8	65-70	.2198	57,164	12,567	254,704	817,213	14.3
70-75	.2027	63,613	12,894	286,881	748,599	11.8	70-75	.2597	44,597	11,581	193,786	562,509	12.6
75-80	.2857	50,719	14,492	218,043	461,718	9.1	75-80	.2723	33,016	8,989	142,373	368,723	11.2
80-85	.4100	36,227	14,856	143,246	243,675	6.7	80-85	.3134	24,027	7,551	100,865	226,350	9.4
85 and over	1.0000	21,374	21,374	100,429	100,429	4.7	85 and over	1.0000	16,496	16,496	125,485	125,485	7.6
WHITE MALE							NONWHITE MALE						
0-1	0.0223	100,000	2,232	97,983	6,779,932	67.8	0-1	0.0392	100,000	3,920	96,626	6,114,160	61.1
1-5	.0034	97,768	332	390,296	6,681,949	68.3	1-5	.0061	96,090	582	382,864	6,017,534	62.6
5-10	.0023	97,436	225	486,586	6,291,653	64.6	5-10	.0035	95,498	314	476,645	5,634,670	59.0
10-15	.0024	97,213	237	485,548	5,805,067	59.7	10-15	.0033	95,184	314	475,219	5,158,025	54.2
15-20	.0070	96,976	678	483,337	5,319,519	54.9	15-20	.0094	94,870	888	472,371	4,682,806	49.4
20-25	.0091	96,298	877	479,308	4,836,182	50.2	20-25	.0165	93,982	1,550	466,226	4,210,435	44.8
25-30	.0080	95,421	765	475,173	4,386,874	45.7	25-30	.0209	92,432	1,935	457,467	3,744,209	40.5
30-35	.0089	94,656	844	471,259	3,931,701	41.0	30-35	.0267	90,499	2,419	446,690	3,286,742	36.3
35-40	.0131	93,812	1,229	466,207	3,410,443	36.4	35-40	.0348	88,090	3,067	435,150	2,840,052	32.2
40-45	.0204	92,583	1,881	458,587	2,944,236	31.8	40-45	.0486	85,013	4,131	415,225	2,406,902	28.3
45-50	.0337	90,692	3,060	446,425	2,485,669	27.4	45-50	.0644	80,882	5,207	392,100	1,991,677	24.6
50-55	.0548	87,632	4,801	426,906	2,039,244	23.3	50-55	.0919	75,675	6,955	361,805	1,599,577	21.0
55-60	.0862	82,831	7,139	397,286	1,612,338	19.5	55-60	.1276	68,720	8,769	322,358	1,237,772	18.1
60-65	.1282	75,692	9,702	355,268	1,215,052	16.1	60-65	.1850	59,951	9,771	275,917	915,404	15.3
65-70	.1823	65,990	12,028	300,700	859,784	13.0	65-70	.2519	50,180	12,641	219,454	639,487	12.7
70-75	.2640	53,962	14,246	234,701	559,084	10.4	70-75	.3179	37,539	11,934	157,212	420,033	11.2
75-80	.3478	39,716	13,812	164,002	324,383	8.2	75-80	.3225	25,605	8,257	106,961	262,821	10.3
80-85	.4636	25,904	12,008	99,316	160,381	6.2	80-85	.3461	17,348	6,004	71,246	155,860	9.0
85 and over	1.0000	13,896	13,896	62,065	62,065	4.5	85 and over	1.0000	11,344	11,344	84,614	84,614	7.5
WHITE FEMALE							NONWHITE FEMALE						
0-1	0.0168	100,000	1,682	98,494	7,505,705	75.1	0-1	0.0324	100,000	3,239	97,267	6,821,230	68.2
1-5	.0027	98,318	265	392,638	7,407,211	75.3	1-5	.0049	96,761	470	385,876	6,773,963	69.5
5-10	.0017	98,053	162	489,823	7,014,573	71.5	5-10	.0024	96,291	229	480,615	6,338,087	65.8
10-15	.0014	97,891	137	489,130	6,524,750	66.7	10-15	.0020	96,062	195	479,853	5,857,272	61.0
15-20	.0027	97,754	268	488,137	6,035,620	61.7	15-20	.0040	95,867	382	478,475	5,377,419	56.1
20-25	.0032	97,486	307	486,680	5,547,483	56.9	20-25	.0067	95,485	637	475,933	4,898,944	51.3
25-30	.0035	97,179	338	485,082	5,060,803	52.1	25-30	.0095	94,848	898	472,134	4,423,011	46.6
30-35	.0047	96,841	459	483,123	4,575,721	47.2	30-35	.0152	93,950	1,425	468,399	3,950,877	42.1
35-40	.0075	96,382	720	480,235	4,092,598	42.5	35-40	.0216	92,525	1,996	457,935	3,484,478	37.7
40-45	.0116	95,682	1,112	475,731	3,612,363	37.8	40-45	.0293	90,529	2,650	446,335	3,026,543	33.4
45-50	.0183	94,550	1,728	468,724	3,136,632	33.2	45-50	.0414	87,879	3,640	430,818	2,580,208	29.4
50-55	.0272	92,822	2,529	458,144	2,667,908	28.7	50-55	.0579	84,239	4,880	409,653	2,149,390	25.5
55-60	.0404	90,293	3,646	442,946	2,209,764	24.5	55-60	.0832	79,359	6,603	380,951	1,739,737	21.9
60-65	.0596	86,647	5,161	421,177	1,766,818	20.4	60-65	.1168	72,756	8,501	342,896	1,358,786	18.7
65-70	.0958	81,486	7,804	389,115	1,345,641	16.5	65-70	.1894	64,255	12,168	291,288	1,015,890	15.8
70-75	.1531	73,682	11,279	341,768	956,526	13.0	70-75	.2115	52,087	11,018	233,024	724,602	13.9
75-80	.2360	62,403	14,849	276,385	614,758	9.9	75-80	.2307	41,069	9,474	181,664	491,578	12.0
80-85	.3715	47,554	17,668	193,443	338,373	7.1	80-85	.2858	31,595	9,030	135,064	309,914	9.8
85 and over	1.0000	29,886	29,886	144,930	144,930	4.8	85 and over	1.0000	22,565	22,565	174,850	174,850	7.7

SECTION 5 - LIFE TABLES

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Table 5-3. Number of Survivors at Single Years of Age, Out of 100,000 Born Alive, by Color and Sex: United States, 1967

Age	Total			White			Nonwhite		
	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	97,761	97,486	98,050	98,056	97,768	98,318	96,417	96,080	96,761
2	97,629	97,343	97,929	97,923	97,646	98,215	96,192	95,856	96,554
3	97,544	97,249	97,853	97,847	97,563	98,147	96,059	95,699	96,437
4	97,479	97,176	97,799	97,789	97,494	98,097	95,968	95,584	96,360
5	97,424	97,113	97,751	97,757	97,456	98,053	95,881	95,498	96,281
6	97,366	97,039	97,707	97,692	97,357	98,012	95,810	95,395	96,230
7	97,318	96,982	97,669	97,657	97,313	97,976	95,747	95,319	96,178
8	97,279	96,939	97,635	97,600	97,272	97,944	95,697	95,264	96,134
9	97,247	96,905	97,605	97,570	97,240	97,916	95,656	95,221	96,096
10	97,219	96,876	97,579	97,544	97,213	97,891	95,620	95,184	96,062
11	97,192	96,847	97,555	97,519	97,186	97,868	95,584	95,146	96,029
12	97,165	96,813	97,530	97,491	97,154	97,845	95,544	95,101	95,995
13	97,137	96,788	97,503	97,457	97,112	97,820	95,497	95,043	95,958
14	97,108	96,768	97,472	97,413	97,054	97,790	95,438	94,967	95,916
15	97,078	96,748	97,444	97,356	96,976	97,754	95,365	94,870	95,867
16	97,046	96,725	97,399	97,284	96,876	97,711	95,275	94,748	95,810
17	97,013	96,699	97,336	97,197	96,754	97,660	95,167	94,599	95,743
18	96,978	96,675	97,277	97,098	96,613	97,604	95,040	94,421	95,667
19	96,941	96,641	97,214	96,991	96,460	97,545	94,894	94,215	95,581
20	96,824	96,523	97,150	96,880	96,298	97,486	94,750	93,982	95,485
21	96,701	96,399	97,084	96,766	96,128	97,426	94,547	93,719	95,378
22	96,573	96,270	97,016	96,648	95,950	97,365	94,345	93,427	95,260
23	96,442	96,133	96,946	96,529	95,769	97,304	94,126	93,111	95,131
24	96,310	96,004	96,875	96,411	95,591	97,242	93,894	92,778	94,993
25	96,179	95,875	96,802	96,295	95,421	97,179	93,652	92,432	94,848
26	96,048	95,750	96,728	96,183	95,259	97,116	93,401	92,075	94,695
27	95,916	95,622	96,651	96,073	95,104	97,051	93,149	91,705	94,533
28	95,783	95,493	96,571	95,965	94,954	96,985	92,864	91,321	94,358
29	95,652	95,362	96,486	95,856	94,806	96,915	92,572	90,920	94,185
30	95,525	95,225	96,394	95,744	94,656	96,841	92,259	90,499	93,950
31	95,402	95,082	96,295	95,628	94,502	96,763	91,924	90,058	93,711
32	95,279	94,932	96,188	95,507	94,344	96,679	91,567	89,596	93,448
33	95,156	94,773	96,073	95,379	94,178	96,589	91,188	89,112	93,162
34	95,033	94,605	95,947	95,242	94,002	96,490	90,780	88,607	92,854
35	94,910	94,420	95,810	95,093	93,812	96,382	90,365	88,080	92,525
36	94,787	94,223	95,661	94,931	93,605	96,263	89,921	87,530	92,173
37	94,664	94,099	95,498	94,753	93,380	96,132	89,452	86,954	91,797
38	94,541	93,978	95,322	94,559	93,135	95,998	88,956	86,347	91,398
39	94,418	93,855	95,132	94,348	92,870	95,832	88,430	85,702	90,975
40	94,295	93,732	94,927	94,119	92,583	95,662	87,870	85,013	90,529
41	94,172	93,609	94,707	93,871	92,271	95,477	87,273	84,275	90,059
42	94,049	93,486	94,477	93,600	91,930	95,276	86,638	83,488	89,563
43	93,926	93,363	94,214	93,304	91,557	95,066	85,956	82,657	89,038
44	93,803	93,240	93,956	92,978	91,146	94,815	85,256	81,787	88,478
45	93,680	93,117	93,693	92,619	90,693	94,550	84,500	80,882	87,879
46	93,557	92,994	93,424	92,224	90,191	94,280	83,721	79,942	87,239
47	93,434	92,871	93,155	91,790	89,639	93,943	82,891	78,962	86,556
48	93,311	92,748	92,886	91,315	89,032	93,598	82,013	77,932	85,828
49	93,188	92,625	92,617	90,795	88,365	93,225	81,081	76,840	85,056
50	93,065	92,502	92,348	90,228	87,632	92,822	80,090	75,675	84,259
51	92,942	92,379	92,079	89,610	86,831	92,389	79,039	74,435	83,376
52	92,819	92,256	91,810	88,939	86,030	91,922	77,924	73,122	82,462
53	92,696	92,133	91,541	88,209	85,169	91,419	76,742	71,733	81,488
54	92,573	92,010	91,272	87,468	84,268	90,877	75,489	70,266	80,460
55	92,450	91,887	91,003	86,717	83,327	90,293	74,157	68,720	79,359
56	92,327	91,764	90,728	85,966	82,386	89,663	72,742	67,088	78,181
57	92,204	91,641	90,453	85,215	81,445	89,033	71,244	65,373	76,925
58	92,081	91,518	90,178	84,464	80,504	88,344	69,676	63,595	75,598
59	91,958	91,395	89,903	83,713	79,563	87,600	68,058	61,782	74,205
60	91,835	91,272	89,628	82,962	78,622	86,811	66,401	59,951	72,756
61	91,712	91,149	89,353	82,211	77,681	85,976	64,722	58,120	71,264
62	91,589	91,026	89,078	81,460	76,740	85,100	63,011	56,278	69,718
63	91,466	90,903	88,803	80,709	75,799	84,183	61,220	54,379	68,073
64	91,343	90,780	88,528	80,000	74,858	83,224	59,365	52,360	66,285
65	91,220	90,657	88,253	79,291	73,917	82,224	57,444	50,180	64,255
66	91,097	90,534	87,978	78,582	72,976	81,183	55,457	47,829	62,026
67	90,974	90,411	87,703	77,873	72,035	80,097	53,401	45,337	59,610
68	90,851	90,288	87,428	77,164	71,094	78,966	51,276	42,750	57,083
69	90,728	90,165	87,153	76,455	70,153	77,791	49,081	40,133	54,549
70	90,605	90,042	86,878	75,746	69,212	76,572	46,816	37,539	52,087
71	90,482	89,919	86,603	75,037	68,271	75,311	44,511	34,982	49,723
72	90,359	89,796	86,328	74,328	67,330	74,010	42,156	32,468	47,446
73	90,236	89,673	86,053	73,619	66,389	72,669	39,695	30,039	45,252
74	90,113	89,550	85,778	72,910	65,448	71,288	37,211	27,740	43,132
75	90,000	89,427	85,503	72,201	64,507	70,000	34,711	25,605	41,089
76	89,887	89,304	85,228	71,492	63,566	68,669	32,196	23,647	39,060
77	89,774	89,181	84,953	70,783	62,625	67,328	29,669	21,862	37,107
78	89,661	89,058	84,678	70,074	61,684	65,987	27,120	20,233	35,213
79	89,548	88,935	84,403	69,365	60,743	64,646	24,551	18,736	33,378
80	89,435	88,812	84,128	68,656	59,802	63,305	22,000	17,348	31,595
81	89,322	88,689	83,853	67,947	58,861	61,964	19,488	16,046	29,849
82	89,209	88,566	83,578	67,238	57,920	60,623	17,011	14,811	28,113
83	89,096	88,443	83,303	66,529	56,979	59,282	14,569	13,625	26,352
84	88,983	88,320	83,028	65,820	56,038	57,941	12,166	12,473	24,521
85	88,870	88,197	82,753	65,111	55,097	56,600	9,801	11,344	22,565

SECTION 5 - LIFE TABLES

Table 5-4. Expectation of Life at Single Years of Age, by Color and Sex: United States, 1967

Age	Total			White			Nonwhite		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
0	70.5	67.0	74.2	71.3	67.8	75.1	64.6	61.1	68.2
1	71.1	67.7	74.6	71.7	68.3	75.3	66.0	62.6	69.5
2	70.2	66.8	73.7	70.8	67.4	74.4	65.2	61.8	68.6
3	69.2	65.8	72.8	69.9	66.5	73.5	64.2	60.9	67.7
4	68.3	64.9	71.8	68.9	65.5	72.5	63.3	59.9	66.8
5	67.3	63.9	70.9	68.0	64.6	71.5	62.4	59.0	65.8
6	66.4	63.0	69.9	67.0	63.6	70.6	61.4	58.1	64.9
7	65.4	62.0	68.9	66.0	62.7	69.6	60.4	57.1	63.9
8	64.4	61.0	68.0	65.1	61.7	68.6	59.5	56.1	62.9
9	63.4	60.1	67.0	64.1	60.7	67.6	58.5	55.2	62.0
10	62.4	59.1	66.0	63.1	59.7	66.7	57.5	54.2	61.0
11	61.5	58.1	65.0	62.1	58.7	65.7	56.5	53.2	60.0
12	60.5	57.1	64.0	61.1	57.8	64.7	55.6	52.2	59.0
13	59.5	56.1	63.0	60.1	56.8	63.7	54.6	51.3	58.0
14	58.5	55.2	62.1	59.2	55.8	62.7	53.6	50.3	57.1
15	57.6	54.2	61.1	58.2	54.9	61.7	52.7	49.4	56.1
16	56.6	53.3	60.1	57.3	53.9	60.8	51.7	48.4	55.1
17	55.7	52.4	59.1	56.3	53.0	59.8	50.8	47.5	54.2
18	54.7	51.4	58.2	55.4	52.1	58.8	49.8	46.6	53.2
19	53.8	50.5	57.2	54.4	51.1	57.9	48.9	45.7	52.3
20	52.9	49.6	56.3	53.5	50.2	56.9	48.0	44.8	51.3
21	51.9	48.7	55.3	52.5	49.3	55.9	47.1	43.9	50.4
22	51.0	47.8	54.3	51.6	48.4	55.0	46.2	43.1	49.4
23	50.1	46.9	53.4	50.7	47.5	54.0	45.3	42.2	48.5
24	49.1	46.0	52.4	49.7	46.6	53.0	44.4	41.4	47.6
25	48.2	45.1	51.5	48.8	45.7	52.1	43.5	40.5	46.6
26	47.3	44.2	50.5	47.8	44.7	51.1	42.6	39.7	45.7
27	46.3	43.3	49.5	46.9	43.8	50.1	41.8	38.8	44.8
28	45.4	42.3	48.6	46.0	42.9	49.2	40.9	38.0	43.9
29	44.4	41.4	47.6	45.0	41.9	48.2	40.0	37.1	43.0
30	43.5	40.5	46.7	44.1	41.0	47.2	39.1	36.3	42.1
31	42.6	39.6	45.7	43.1	40.1	46.3	38.3	35.5	41.2
32	41.6	38.7	44.8	42.2	39.1	45.3	37.4	34.7	40.3
33	40.7	37.7	43.8	41.2	38.2	44.4	36.6	33.9	39.4
34	39.8	36.8	42.9	40.3	37.3	43.4	35.7	33.0	38.5
35	38.9	35.9	41.9	39.3	36.4	42.5	34.9	32.2	37.7
36	37.9	35.0	41.0	38.4	35.4	41.5	34.1	31.4	36.8
37	37.0	34.1	40.1	37.5	34.5	40.6	33.3	30.6	36.0
38	36.1	33.2	39.1	36.6	33.6	39.6	32.4	29.9	35.1
39	35.2	32.3	38.2	35.6	32.7	38.7	31.6	29.1	34.3
40	34.3	31.4	37.3	34.7	31.8	37.8	30.8	28.3	33.4
41	33.4	30.5	36.4	33.8	30.9	36.8	30.0	27.6	32.6
42	32.5	29.7	35.5	32.9	30.0	35.9	29.2	26.8	31.8
43	31.6	28.8	34.6	32.0	29.1	35.0	28.5	26.1	31.0
44	30.8	28.0	33.7	31.1	28.3	34.1	27.7	25.3	30.2
45	29.9	27.1	32.8	30.2	27.4	33.2	26.9	24.6	29.4
46	29.0	26.3	31.9	29.4	26.6	32.3	26.2	23.9	28.6
47	28.2	25.5	31.0	28.5	25.7	31.4	25.5	23.2	27.8
48	27.3	24.6	30.1	27.6	24.9	30.5	24.7	22.5	27.0
49	26.5	23.8	29.3	26.8	24.1	29.6	24.0	21.8	26.3
50	25.7	23.1	28.4	26.0	23.3	28.7	23.3	21.1	25.5
51	24.9	22.3	27.6	25.1	22.5	27.9	22.6	20.5	24.8
52	24.1	21.5	26.7	24.3	21.7	27.0	21.9	19.8	24.0
53	23.3	20.8	25.9	23.5	20.9	26.2	21.2	19.2	23.3
54	22.5	20.0	25.0	22.7	20.2	25.3	20.6	18.6	22.6
55	21.8	19.3	24.2	22.0	19.5	24.5	19.9	18.0	21.9
56	21.0	18.5	23.4	21.2	18.8	23.6	19.3	17.4	21.2
57	20.3	17.9	22.6	20.4	18.1	22.8	18.7	16.9	20.6
58	19.5	17.3	21.8	19.7	17.4	22.0	18.1	16.3	19.9
59	18.8	16.6	21.0	19.0	16.7	21.2	17.5	15.8	19.3
60	18.1	16.0	20.2	18.2	16.1	20.4	17.0	15.3	18.7
61	17.4	15.3	19.4	17.5	15.4	19.6	16.4	14.7	18.1
62	16.7	14.7	18.7	16.8	14.8	18.8	15.8	14.2	17.5
63	16.1	14.1	17.9	16.2	14.2	18.0	15.3	13.7	16.9
64	15.4	13.6	17.2	15.5	13.6	17.3	14.8	13.2	16.3
65	14.8	13.0	16.4	14.8	13.0	16.5	14.3	12.7	15.8
66	14.2	12.4	15.7	14.2	12.5	15.8	13.9	12.3	15.4
67	13.5	11.9	15.0	13.6	11.9	15.1	13.5	12.0	15.0
68	13.0	11.4	14.3	13.0	11.4	14.3	13.2	11.7	14.6
69	12.4	10.9	13.7	12.4	10.9	13.7	12.9	11.4	14.3
70	11.8	10.4	13.0	11.8	10.4	13.0	12.6	11.2	13.9
71	11.3	10.0	12.4	11.2	9.9	12.3	12.3	11.0	13.5
72	10.7	9.5	11.8	10.7	9.4	11.7	12.0	10.8	13.2
73	10.2	9.1	11.1	10.1	9.0	11.1	11.8	10.6	12.8
74	9.7	8.7	10.5	9.6	8.6	10.4	11.5	10.4	12.4
75	9.2	8.3	10.0	9.1	8.2	9.9	11.2	10.3	12.0
76	8.7	7.9	9.4	8.6	7.8	9.3	10.9	10.1	11.6
77	8.3	7.5	8.8	8.1	7.4	8.7	10.5	9.8	11.1
78	7.8	7.1	8.3	7.6	7.0	8.2	10.2	9.6	10.7
79	7.3	6.7	7.8	7.2	6.6	7.6	9.8	9.3	10.3
80	6.9	6.4	7.3	6.7	6.2	7.1	9.4	9.0	9.8
81	6.5	6.0	6.8	6.3	5.8	6.6	9.0	8.7	9.4
82	6.0	5.7	6.3	5.9	5.5	6.1	8.6	8.4	8.9
83	5.6	5.3	5.8	5.5	5.1	5.7	8.3	8.0	8.5
84	5.3	5.0	5.4	5.1	4.8	5.3	7.9	7.7	8.1
85	4.9	4.7	5.0	4.7	4.5	4.8	7.6	7.5	7.7

SECTION 5 - LIFE TABLES

Table 5-5. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1967

[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 nonwhite cover only Negroes. However, in no case did the Negro population comprise less than 95 percent of the corresponding nonwhite population]

Age, color, and sex	Number of survivors out of 100,000 born alive (1 _x)									Average number of years of life remaining (e _x)								
	1967	1966	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902	1967	1966	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	67.8	67.6	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1-----	97,768	97,664	97,408	96,931	95,188	93,768	91,975	87,674	86,655	68.3	68.2	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5-----	97,436	97,315	97,015	96,403	94,150	91,738	88,842	82,972	80,864	64.6	64.4	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10-----	97,213	97,083	96,758	96,069	93,601	90,810	87,530	81,519	79,109	59.7	59.6	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15-----	96,976	96,846	96,503	95,728	93,089	90,074	86,546	80,549	78,037	54.9	54.7	54.93	54.18	52.33	50.39	49.74	46.25	45.25
20-----	96,298	96,170	95,908	95,104	92,293	88,904	84,897	79,116	76,376	50.2	50.1	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25-----	95,421	95,294	95,106	94,294	91,241	87,371	83,061	77,407	73,907	45.7	45.5	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30-----	94,656	94,531	94,401	93,489	90,092	85,707	80,888	74,810	71,219	41.0	40.8	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35-----	93,812	93,682	93,559	92,543	88,713	83,812	78,441	72,108	68,245	36.4	36.2	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40-----	92,583	92,473	92,427	91,173	86,880	81,457	75,735	68,848	64,954	31.8	31.6	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45-----	90,692	90,571	90,533	89,002	84,285	78,345	72,696	65,115	61,369	27.4	27.2	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50-----	87,632	87,503	87,424	85,601	80,521	74,288	69,107	60,741	57,274	23.3	23.1	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55-----	82,631	82,601	82,465	80,496	75,156	68,981	64,574	55,622	52,491	19.5	19.3	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60-----	75,692	75,333	75,485	73,172	67,787	61,933	58,498	48,987	46,452	16.1	15.9	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65-----	65,990	65,639	65,834	63,541	58,305	52,964	50,663	40,862	39,245	13.0	12.9	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70-----	55,962	55,316	55,825	51,735	46,739	41,880	40,873	31,527	30,640	10.4	10.3	10.29	10.07	9.42	9.20	9.51	8.85	9.03
75-----	39,716	39,245	40,207	38,104	33,404	29,471	29,205	21,585	21,387	8.2	8.0	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80-----	25,904	25,415	25,993	24,005	19,860	17,221	17,655	12,160	12,266	6.2	6.1	6.08	5.88	5.38	5.26	5.47	5.09	5.10
85-----	13,896	13,310	13,065	12,015	9,013	7,572	8,154	5,145	5,252	4.5	4.4	4.34	4.35	4.02	3.99	4.06	3.88	3.81
NONWHITE MALE																		
0-----	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	61.1	60.7	61.48	58.91	52.33	47.55	47.14	34.05	32.54
1-----	96,080	95,778	95,301	94,911	91,696	87,268	82,499	78,065	74,674	62.6	62.4	63.50	61.06	56.05	51.08	51.63	42.45	42.46
5-----	95,498	95,180	94,570	93,921	89,920	85,432	80,195	76,589	73,585	59.0	58.8	59.98	57.69	53.15	48.69	50.18	44.25	45.06
10-----	95,184	94,823	94,234	93,453	89,211	84,311	78,768	74,377	71,750	54.2	54.0	55.19	52.96	48.54	44.27	45.99	40.65	41.90
15-----	94,870	94,493	93,874	92,965	88,417	82,532	76,478	72,667	69,667	49.4	49.2	50.59	48.23	43.95	39.83	41.78	36.77	38.25
20-----	93,982	93,641	93,103	91,941	86,770	80,621	74,057	67,426	64,266	44.6	44.6	45.78	43.73	39.74	35.95	38.36	33.46	35.11
25-----	92,432	92,175	91,825	90,285	84,058	77,516	70,540	63,756	60,285	40.5	40.3	41.38	39.49	35.94	32.67	35.54	30.44	32.21
30-----	90,499	90,344	90,270	88,327	80,865	75,083	70,344	64,073	60,867	36.3	36.0	37.05	35.31	32.25	29.45	32.51	27.53	29.25
35-----	88,080	88,018	88,331	85,940	77,185	70,049	65,873	59,865	56,541	32.2	31.9	32.81	31.21	28.67	26.39	29.54	24.42	26.16
40-----	85,013	84,989	85,744	82,632	72,830	64,710	61,353	55,444	52,989	28.3	28.0	28.78	27.29	25.23	23.36	26.53	21.57	23.12
45-----	80,882	80,874	82,075	78,686	67,514	58,432	53,589	48,563	46,230	24.6	24.2	24.89	23.59	22.02	20.59	23.55	18.85	20.09
50-----	75,675	75,462	77,239	72,891	60,766	51,748	45,880	40,427	34,766	21.1	20.8	21.28	20.25	19.18	17.92	20.47	16.21	17.34
55-----	68,720	68,572	70,351	65,122	52,967	44,336	38,581	33,754	29,987	18.0	17.6	18.11	17.36	16.67	15.48	17.50	13.82	14.69
60-----	59,951	59,807	61,669	55,535	44,370	36,790	30,506	25,750	24,194	15.3	14.9	15.29	14.91	14.38	13.15	14.74	11.67	12.62
65-----	50,180	49,844	51,392	45,198	35,912	29,314	24,042	17,806	19,015	12.7	12.4	12.84	12.75	12.18	10.87	12.07	9.74	10.38
70-----	37,539	36,252	39,914	35,018	27,688	21,741	18,323	12,295	13,829	11.2	11.0	10.81	10.74	10.06	8.78	9.58	8.00	8.33
75-----	25,605	25,084	28,064	25,472	19,765	14,419	13,854	7,494	8,892	10.3	9.8	9.93	9.83	9.09	6.99	7.61	6.58	6.60
80-----	17,348	16,841	19,994	16,904	12,352	8,239	11,615	5,894	6,831	9.0	8.4	8.67	7.07	6.46	5.42	5.83	5.53	5.12
85-----	11,344	10,819	11,620	9,898	6,492	3,660	5,605	1,747	2,030	7.5	6.7	5.08	5.38	5.08	4.30	4.53	4.48	4.04
WHITE FEMALE																		
0-----	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	75.1	74.7	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1-----	98,318	98,242	98,036	97,645	96,211	95,037	93,608	91,774	89,939	75.3	75.1	74.68	72.77	68.93	64.93	61.51	56.89	56.39
5-----	98,053	97,954	97,703	97,199	95,309	93,216	90,721	85,349	83,426	71.5	71.3	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10-----	97,891	97,787	97,525	96,960	94,890	92,466	89,564	83,979	81,723	66.7	66.4	66.05	64.26	60.85	57.65	55.17	53.57	52.15
15-----	97,754	97,647	97,375	96,756	94,534	91,894	88,712	83,093	80,680	61.7	61.5	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20-----	97,486	97,376	97,135	96,454	93,984	90,939	87,281	81,750	78,978	56.9	56.7	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25-----	97,179	97,072	96,844	96,072	93,228	89,524	85,163	79,865	76,588	52.1	51.8	51.45	49.77	46.78	44.25	42.55	40.98	40.05
30-----	96,841	96,719	96,499	95,605	92,320	87,972	82,740	77,676	73,887	47.2	47.0	46.65	45.00	42.21	39.99	38.72	36.96	36.42
35-----	96,382	96,230	96,026	94,977	91,211	86,248	80,206	75,200	70,971	42.5	42.2	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40-----	95,662	95,523	95,326	94,080	89,805	84,256	77,624	72,425	67,935	37.8	37.5	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45-----	94,550	94,398	94,228	92,725	87,920	81,780	74,871	69,341	64,677	33.2	32.9	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50-----	92,822	92,667	92,522	90,685	85,267	78,572	71,547	65,629	61,005	28.7	28.5	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55-----	90,293	90,104	89,967	87,699	81,520	74,321	67,323	61,053	56,509	24.5	24.2	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60-----	86,647	86,429	86,339	83,279	76,200	68,462	61,704	54,900	50,752	20.4	20.2	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65-----	81,486	81,239	80,739	76,773	68,701	60,499	54,299	47,086	43,806	16.5	16.3	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70-----	73,682	73,265	72,507	67,545	58,363	49,932	44,638	37,482	35,206	13.0	12.8	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75-----	62,403	61,771	60,461	54,397	44,685	37,024	32,777	26,569	25,362	9.9	9.6	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80-----	47,554	46,622	44,676	38,026	28,882	23,053	20,492	15,929	15,349	7.1	6.9	6.67	6.59	5.98	5.63	5.70	5.35	5.50

SECTION 5 - LIFE TABLES

Table 5-6. Estimated Average Length of Life in Years, by Color and Sex: Death-Registration States, 1900-1928, and United States, 1929-67

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

Area and year	Total			White			Nonwhite		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
UNITED STATES									
1967-----	70.5	67.0	74.2	71.3	67.8	75.1	64.6	61.1	69.2
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	63.4	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-----	65.3	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	47.6	47.6	49.9
1926-----	56.7	55.5	59.0	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-----	60.9	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

¹Figures by color exclude data for residents of New Jersey; see Technical Appendix.

FILE

VITAL STATISTICS OF THE UNITED STATES, 1967

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 e_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 deaths, 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.