

VITAL
STATISTICS

of the

UNITED
STATES

1971

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

VITAL STATISTICS OF THE UNITED STATES, 1971
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

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Years:					
1900-1971-----					5 ¹
1971 only-----	1	2	3		
Specified years and 1971-----				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 (e_x)---	1		3	4	
Estimated average length of life (e_0)--					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

¹Entire United States for 1929-71; death-registration States for 1900-1928.

²Entire United States for specified years from 1929 to 1971; 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 1971 assumes a hypothetical cohort subject throughout its lifetime to the age-specific mortality rates prevailing for the actual population in 1971. 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 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 1971

The data used to prepare the abridged U.S. life tables for 1971 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. Sample life table statistics for 1971 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.

Expectation of life.—The most frequently used life table statistic is the expectation of life (e_x), i.e., the average remaining lifetime in years for persons who have attained a given age (x). Expectation of life at specified

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. U.S. Government Printing Office, 1966.

ages in 1971 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.

Life expectancy at birth (e_0) is 71.0 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 71.4 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, 72,326 out of the original 100,000 (or 72.3 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.

Table 5-A. Selected life table values, by age, color, and sex: United States, 1971

Life table value and age	Total	White		All other	
		Male	Female	Male	Female
Expectation of life:					
At birth-----	71.0	68.3	75.6	61.2	69.3
At age 1-----	71.4	68.6	75.8	62.3	70.2
At age 21-----	52.3	49.6	56.4	43.6	51.0
At age 65-----	15.1	13.2	17.0	12.9	16.1
Percent surviving from birth:					
To age 1-----	98.1	98.1	98.5	96.8	97.4
To age 21-----	96.7	96.4	97.6	94.3	96.0
To age 65-----	72.3	66.9	81.8	49.5	66.3
Median age at death--	74.9	71.8	79.7	64.8	71.9

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.

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 1970 and 1971. Life expectancy among white males exactly 20 years old, for instance, has increased from 42.2 years in 1900-1902 to 50.5 years in 1971 (text table 5-B). Where 39.2 percent of white males survived to age 65 in 1900-1902, now 66.9 percent survive to this age.

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. The estimated figures in table 5-5 were computed to meet these needs.³ For example, life expectancy has increased by 3.4 years among white females since 1951, or an average increase of 0.16 year of life per calendar year. Values for other years, by color and sex, are shown in table 5-B.

Table 5-B. Selected life table values, by color and sex: Death-registration areas, 1971, 1970, 1961, 1951, 1900-1902

Life table value and year	Total	White		All other	
		Male	Female	Male	Female
Life expectancy (e_x) at birth:					
1971-----	71.0	68.3	75.6	61.2	69.3
1970-----	70.9	68.0	75.6	61.3	69.4
1961-----	70.2	67.8	74.5	61.9	67.0
1951-----	68.4	66.5	72.4	59.2	63.4
1900-----	47.3	46.6	48.7	32.5	33.5
at age 20:					
1971-----	53.2	50.5	57.3	44.4	52.0
1900-1902-----	---	42.2	43.8	35.1	36.9
Percent reaching age 65:					
1971-----	72.3	66.9	81.8	49.5	66.3
1900-1902-----	---	39.2	43.8	19.0	22.0

³For 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.

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 ex-

cluding 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 1971 abridged life tables.

Nonresidents, 1971.—Beginning in 1970, the deaths of nonresidents of the United States have been excluded from the life table statistics.

Explanation of the Columns of the Life Tables

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 0.0109—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, 97,867 will complete the first year of life and enter the second; 97,525 will begin the sixth year; 96,280 will reach age 20; and 13,927 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, 2,133 die in the first year of life, 342 in the succeeding 4 years, 1,051 in the 5-year period between exact ages 20 and 25, and 13,927 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 478,806. 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 478,806 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 4,794,567 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 6,739,763.

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 478,806 for males in the age interval 20-25 is the total number of years lived between the 20th and 25th birthdays by the 96,280 (column 3) who reached the 20th birthday out of 100,000 males born alive. The corresponding figure (4,794,567) in column 6 is the total number of years lived after attaining age 20 by the 96,280 reaching that age. This number of years divided by the number of persons (4,794,567 divided by 96,280) gives 49.8 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.

SECTION 5 - LIFE TABLES

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1971

AGE INTERVAL PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS (1)	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL (2)	NUMBER LIVING AT BEGINNING OF AGE INTERVAL (3)	NUMBER DYING DURING AGE INTERVAL (4)	IN THE AGE INTERVAL (5)	IN THIS AND ALL SUBSEQUENT AGE INTERVALS (6)	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL (7)
x to $x+n$	nq_x	l_x	n^d_x	n^L_x	T_x	e_x
TOTAL						
0-1	0.0190	100,000	1,902	98,310	7,103,518	71.0
1-5	0.0032	98,098	312	391,645	7,005,208	71.4
5-10	0.0020	97,786	200	488,390	6,613,563	67.6
10-15	0.0020	97,586	196	487,488	6,125,173	62.9
15-20	0.0056	97,390	543	485,704	5,637,685	57.9
20-25	0.0072	96,847	701	482,514	5,151,981	53.2
25-30	0.0071	96,146	684	479,044	4,669,467	48.6
30-35	0.0085	95,462	812	475,374	4,190,423	43.9
35-40	0.0122	94,650	1,151	470,563	3,715,049	39.3
40-45	0.0184	93,499	1,718	463,507	3,244,486	34.7
45-50	0.0278	91,781	2,547	453,001	2,780,979	30.3
50-55	0.0425	89,234	3,795	437,243	2,327,978	26.1
55-60	0.0637	85,439	5,439	414,348	1,890,735	22.1
60-65	0.0959	80,000	7,674	381,738	1,476,397	18.5
65-70	0.1361	72,326	9,844	337,953	1,094,649	15.1
70-75	0.2023	62,482	12,641	281,720	756,696	12.1
75-80	0.2844	49,841	14,173	214,375	474,976	9.5
80-85	0.3845	35,668	13,714	143,360	260,601	7.3
85 AND OVER	1.0000	21,954	21,954	117,241	117,241	5.3
MALE						
0-1	0.0213	100,000	2,133	98,098	6,739,763	67.4
1-5	0.0035	97,867	342	390,653	6,641,665	67.9
5-10	0.0024	97,525	232	487,005	6,251,012	64.1
10-15	0.0025	97,293	242	485,935	5,764,007	59.2
15-20	0.0079	97,051	771	483,505	5,278,072	54.4
20-25	0.0109	96,280	1,051	478,806	4,794,567	49.8
25-30	0.0100	95,229	949	473,767	4,315,761	45.3
30-35	0.0112	94,280	1,057	468,865	3,841,994	40.8
35-40	0.0155	93,223	1,447	462,740	3,373,129	36.2
40-45	0.0232	91,776	2,134	453,940	2,910,389	31.7
45-50	0.0358	89,642	3,207	440,804	2,456,449	27.4
50-55	0.0561	86,435	4,853	420,771	2,015,645	23.3
55-60	0.0861	81,582	7,027	391,253	1,594,874	19.5
60-65	0.1307	74,555	9,743	349,430	1,203,621	16.1
65-70	0.1827	64,812	11,838	295,200	854,191	13.2
70-75	0.2637	52,974	13,970	230,332	558,991	10.6
75-80	0.3585	39,004	13,984	159,975	328,659	8.4
80-85	0.4434	25,020	11,093	96,295	168,684	6.7
85 AND OVER	1.0000	13,927	13,927	72,389	72,389	5.2
FEMALE						
0-1	0.0166	100,000	1,659	98,533	7,483,058	74.8
1-5	0.0029	98,341	281	392,684	7,384,525	75.1
5-10	0.0017	98,060	166	489,845	6,991,841	71.3
10-15	0.0015	97,894	147	489,122	6,501,996	66.4
15-20	0.0031	97,747	307	488,016	6,012,874	61.5
20-25	0.0037	97,440	359	486,333	5,524,858	56.7
25-30	0.0043	97,081	417	484,408	5,038,525	51.9
30-35	0.0059	96,664	568	481,979	4,554,117	47.1
35-40	0.0089	96,096	856	478,479	4,072,138	42.4
40-45	0.0137	95,240	1,307	473,148	3,593,659	37.7
45-50	0.0202	93,933	1,898	465,229	3,120,511	33.2
50-55	0.0298	92,035	2,744	453,694	2,655,282	28.9
55-60	0.0428	89,291	3,822	437,479	2,201,588	24.7
60-65	0.0646	85,469	5,518	414,348	1,764,109	20.6
65-70	0.0958	79,951	7,660	381,662	1,349,761	16.9
70-75	0.1540	72,291	11,130	335,029	968,099	13.4
75-80	0.2313	61,161	14,144	271,782	633,070	10.4
80-85	0.3450	47,017	16,219	194,380	361,288	7.7
85 AND OVER	1.0000	30,798	30,798	166,908	166,908	5.4

SECTION 5 - LIFE TABLES

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1971-Con.

AGE INTERVAL PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS (1)	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL (2)	NUMBER LIVING AT BEGINNING OF AGE INTERVAL (3)	NUMBER DYING DURING AGE INTERVAL (4)	IN THE AGE INTERVAL (5)	IN THIS AND ALL SUBSEQUENT AGE INTERVALS (6)	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL (7)
x to $x+n$	nq_x	l_x	n^d_x	nL_x	T_x	e_x
WHITE						
0-1	0.0169	100,000	1,687	98,483	7,189,084	71.9
1-5	.0020	98,313	286	392,575	7,090,601	72.1
5-10	.0019	98,027	189	489,627	6,698,025	68.3
10-15	.0019	97,838	185	488,773	6,208,398	63.5
15-20	.0052	97,653	508	487,094	5,719,625	58.6
20-25	.0063	97,145	610	484,214	5,232,531	53.9
25-30	.0099	96,535	570	481,259	4,748,317	49.2
30-35	.0069	95,965	658	478,257	4,267,058	44.5
35-40	.0099	95,307	945	474,340	3,788,801	39.8
40-45	.0159	94,362	1,500	468,352	3,314,461	35.1
45-50	.0250	92,862	2,318	458,959	2,846,109	30.6
50-55	.0392	90,544	3,550	444,387	2,387,150	26.4
55-60	.0604	86,994	5,250	422,613	1,942,763	22.3
60-65	.0912	81,744	7,453	391,060	1,520,150	18.6
65-70	.1308	74,291	9,715	348,179	1,129,090	15.2
70-75	.1942	64,576	12,544	292,542	780,911	12.1
75-80	.2836	52,032	14,755	223,963	488,369	9.4
80-85	.3902	37,277	14,547	149,277	264,406	7.1
85 AND OVER	1.0000	22,730	22,730	115,129	115,129	5.1
WHITE, MALE						
0-1	0.0191	100,000	1,906	98,281	6,829,324	68.3
1-5	.0032	98,094	314	391,642	6,731,043	68.6
5-10	.0022	97,780	218	488,319	6,339,401	64.8
10-15	.0024	97,562	229	487,310	5,851,082	60.0
15-20	.0074	97,333	724	485,017	5,363,772	55.1
20-25	.0095	96,609	913	480,773	4,878,755	50.5
25-30	.0082	95,696	786	476,495	4,397,982	46.0
30-35	.0090	94,910	858	472,494	3,921,487	41.3
35-40	.0127	94,052	1,198	467,479	3,448,993	36.7
40-45	.0202	92,854	1,878	459,952	2,981,514	32.1
45-50	.0325	90,976	2,953	448,091	2,521,562	27.7
50-55	.0523	88,023	4,606	429,318	2,073,471	23.6
55-60	.0826	83,417	6,890	400,804	1,644,153	19.7
60-65	.1260	76,527	9,645	359,580	1,243,349	16.2
65-70	.1785	66,882	11,942	305,369	883,769	13.2
70-75	.2559	54,940	14,060	240,049	578,400	10.5
75-80	.3582	40,880	14,642	167,744	338,351	8.3
80-85	.4507	26,238	11,825	100,462	170,607	6.5
85 AND OVER	1.0000	14,413	14,413	70,145	70,145	4.9
WHITE, FEMALE						
0-1	0.0146	100,000	1,455	98,697	7,564,185	75.6
1-5	.0026	98,545	256	393,568	7,465,488	75.8
5-10	.0016	98,289	159	491,012	7,071,920	72.0
10-15	.0014	98,130	139	490,320	6,580,908	67.1
15-20	.0029	97,991	283	489,286	6,090,588	62.2
20-25	.0032	97,708	311	487,780	5,601,302	57.3
25-30	.0036	97,397	351	486,141	5,113,522	52.5
30-35	.0047	97,046	457	484,153	4,627,381	47.7
35-40	.0072	96,589	691	481,337	4,143,228	42.9
40-45	.0117	95,898	1,121	476,891	3,661,891	38.2
45-50	.0178	94,777	1,691	469,946	3,185,000	33.6
50-55	.0269	93,086	2,500	459,532	2,715,054	29.2
55-60	.0396	90,586	3,589	444,544	2,255,522	24.9
60-65	.0597	86,997	5,196	422,846	1,810,978	20.8
65-70	.0896	81,801	7,329	391,805	1,388,132	17.0
70-75	.1460	74,472	10,875	346,672	996,327	13.4
75-80	.2305	63,597	14,657	282,816	649,655	10.2
80-85	.3498	48,940	17,120	201,748	366,839	7.5
85 AND OVER	1.0000	31,820	31,820	165,091	165,091	5.2

SECTION 5 - LIFE TABLES

5-9

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1971-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	n^d_x	nL_x	T_x	e_x
ALL OTHER						
0-1	0.0293	100,000	2,930	97,485	6,519,678	65.2
1-5	.0045	97,070	436	387,193	6,422,193	66.2
5-10	.0026	96,634	251	482,483	6,035,000	62.5
10-15	.0027	96,383	256	481,333	5,552,517	57.6
15-20	.0079	96,127	756	478,939	5,071,184	52.8
20-25	.0137	95,371	1,306	473,763	4,592,245	48.2
25-30	.0158	94,065	1,488	466,761	4,118,482	43.8
30-35	.0205	92,577	1,897	458,376	3,651,721	39.4
35-40	.0284	90,680	2,579	447,323	3,193,345	35.2
40-45	.0377	88,101	3,317	432,609	2,746,022	31.2
45-50	.0513	84,784	4,349	413,661	2,313,413	27.3
50-55	.0728	80,435	5,855	388,276	1,899,752	23.6
55-60	.0947	74,580	7,059	355,881	1,511,476	20.3
60-65	.1436	67,521	9,695	313,879	1,155,595	17.1
65-70	.1916	57,826	11,081	261,693	841,716	14.6
70-75	.3021	46,745	14,121	198,122	580,023	12.4
75-80	.2929	32,624	9,554	138,986	381,901	11.7
80-85	.3140	23,070	7,243	96,817	242,915	10.5
85 AND OVER	1.0000	15,827	15,827	146,098	146,098	9.2
ALL OTHER, MALE						
0-1	0.0323	100,000	3,233	97,214	6,122,314	61.2
1-5	.0049	96,767	475	385,880	6,025,100	62.3
5-10	.0031	96,292	303	480,645	5,639,220	58.6
10-15	.0033	95,989	318	479,235	5,158,575	53.7
15-20	.0111	95,671	1,067	475,977	4,679,340	48.9
20-25	.0208	94,604	1,972	468,333	4,203,363	44.4
25-30	.0230	92,632	2,126	457,998	3,735,030	40.3
30-35	.0280	90,506	2,531	446,457	3,277,032	36.2
35-40	.0373	87,975	3,281	432,119	2,830,575	32.2
40-45	.0487	84,694	4,125	413,665	2,398,456	28.3
45-50	.0652	80,569	5,253	390,426	1,984,811	24.6
50-55	.0922	75,316	6,945	360,034	1,594,385	21.2
55-60	.1203	68,371	8,227	321,935	1,234,351	18.1
60-65	.1777	60,144	10,689	274,642	912,416	15.2
65-70	.2239	49,455	11,072	219,732	637,774	12.9
70-75	.3566	38,383	13,686	156,957	418,042	10.9
75-80	.3622	24,697	8,945	100,665	261,085	10.6
80-85	.3579	15,752	5,638	64,211	160,420	10.2
85 AND OVER	1.0000	10,114	10,114	96,209	96,209	9.5
ALL OTHER, FEMALE						
0-1	0.0262	100,000	2,619	97,763	6,931,796	69.3
1-5	.0041	97,381	396	388,540	6,834,033	70.2
5-10	.0020	96,985	198	484,371	6,445,493	66.5
10-15	.0020	96,787	195	483,478	5,961,122	61.6
15-20	.0046	96,592	445	481,958	5,477,644	56.7
20-25	.0070	96,147	671	479,163	4,995,686	52.0
25-30	.0092	95,476	874	475,331	4,516,523	47.3
30-35	.0139	94,602	1,317	469,913	4,041,192	42.7
35-40	.0209	93,285	1,947	461,850	3,571,279	38.3
40-45	.0284	91,338	2,596	450,509	3,109,429	34.0
45-50	.0393	88,742	3,484	435,501	2,658,920	30.0
50-55	.0558	85,258	4,759	415,034	2,223,419	26.1
55-60	.0720	80,499	5,794	388,592	1,808,385	22.5
60-65	.1131	74,705	8,447	352,773	1,419,793	19.0
65-70	.1621	66,258	10,739	304,825	1,067,020	16.1
70-75	.2560	55,519	14,213	242,236	762,195	13.7
75-80	.2409	41,306	9,952	181,654	519,959	12.6
80-85	.2807	31,354	8,800	134,443	338,305	10.8
85 AND OVER	1.0000	22,554	22,554	203,862	203,862	9.0

SECTION 5 - LIFE TABLES

Table 5-2. Number of Survivors at Single Years of Age, Out of 100,000 Born Alive, by Color and Sex: United States, 1971

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FFEMALE	BOTH SEXES	MALE	FFEMALE
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,098	97,867	98,341	98,313	98,094	98,545	97,070	96,767	97,381
2	97,982	97,742	98,235	98,209	97,981	98,450	96,901	96,588	97,223
3	97,904	97,657	98,164	98,138	97,905	98,385	96,786	96,462	97,120
4	97,840	97,585	98,108	98,078	97,837	98,334	96,701	96,368	97,044
5	97,786	97,525	98,060	98,027	97,780	98,289	96,634	96,292	96,985
6	97,726	97,447	98,018	97,973	97,710	98,250	96,546	96,168	96,937
7	97,678	97,380	97,981	97,928	97,656	98,215	96,485	96,090	96,887
8	97,641	97,347	97,948	97,892	97,616	98,183	96,442	96,043	96,840
9	97,611	97,317	97,910	97,863	97,586	98,155	96,410	96,013	96,817
10	97,586	97,293	97,884	97,838	97,562	98,130	96,383	95,989	96,787
11	97,562	97,269	97,870	97,815	97,539	98,107	96,354	95,961	96,758
12	97,535	97,239	97,846	97,789	97,510	98,084	96,319	95,921	96,727
13	97,500	97,196	97,810	97,756	97,470	98,059	96,272	95,862	96,691
14	97,453	97,135	97,787	97,712	97,413	98,029	96,209	95,780	96,647
15	97,390	97,051	97,747	97,653	97,333	97,991	96,127	95,671	96,592
16	97,309	96,940	97,698	97,576	97,227	97,945	96,024	95,532	96,526
17	97,211	96,803	97,640	97,483	97,096	97,891	95,897	95,359	96,447
18	97,098	96,644	97,576	97,376	96,945	97,832	95,746	95,148	96,356
19	96,975	96,468	97,508	97,262	96,781	97,770	95,571	94,897	96,256
20	96,847	96,280	97,440	97,145	96,609	97,708	95,371	94,604	96,147
21	96,713	96,080	97,371	97,025	96,430	97,647	95,145	94,266	96,029
22	96,573	95,869	97,301	96,902	96,244	97,586	94,894	93,886	95,907
23	96,430	95,652	97,229	96,778	96,056	97,524	94,625	93,474	95,764
24	96,287	95,437	97,156	96,655	95,872	97,461	94,347	93,054	95,624
25	96,146	95,220	97,081	96,535	95,696	97,397	94,065	92,632	95,476
26	96,008	95,031	97,004	96,419	95,529	97,331	93,782	92,215	95,322
27	95,873	94,840	96,925	96,305	95,370	97,264	93,496	91,800	95,161
28	95,739	94,654	96,843	96,193	95,217	97,194	93,203	91,381	94,990
29	95,603	94,469	96,756	96,080	95,065	97,122	92,898	90,952	94,805
30	95,462	94,280	96,664	95,965	94,910	97,046	92,577	90,506	94,602
31	95,316	94,085	96,566	95,846	94,752	96,966	92,239	90,043	94,381
32	95,164	93,885	96,461	95,722	94,589	96,881	91,884	89,563	94,141
33	95,003	93,676	96,349	95,592	94,419	96,791	91,508	89,061	93,880
34	94,832	93,456	96,228	95,454	94,241	96,694	91,108	88,533	93,595
35	94,650	93,223	96,096	95,307	94,052	96,589	90,680	87,975	93,285
36	94,454	92,974	95,953	95,149	93,849	96,475	90,223	87,384	92,947
37	94,243	92,707	95,797	94,978	93,631	96,351	89,735	86,760	92,583
38	94,014	92,420	95,627	94,791	93,394	96,215	89,217	86,102	92,192
39	93,767	92,110	95,442	94,587	93,136	96,065	88,672	85,413	91,777
40	93,499	91,776	95,240	94,362	92,854	95,898	88,101	84,694	91,338
41	93,208	91,415	95,019	94,114	92,544	95,713	87,503	83,943	90,875
42	92,892	91,024	94,778	93,842	92,204	95,509	86,875	83,156	90,386
43	92,550	90,600	94,517	93,543	91,831	95,285	86,214	82,333	89,869
44	92,180	90,140	94,236	93,217	91,423	95,041	85,518	81,471	89,322
45	91,781	89,642	93,933	92,862	90,976	94,777	84,784	80,569	88,742
46	91,349	89,103	93,608	92,475	90,488	94,491	84,012	79,626	88,129
47	90,883	88,518	93,258	92,054	89,953	94,181	83,199	78,639	87,480
48	90,378	87,882	92,881	91,594	89,368	93,845	82,338	77,599	86,790
49	89,830	87,190	92,474	91,092	88,726	93,481	81,419	76,494	86,051
50	89,234	86,435	92,035	90,544	88,023	93,086	80,435	75,316	85,258
51	88,587	85,614	91,561	89,947	87,254	92,658	79,379	74,057	84,403
52	87,886	84,722	91,049	89,297	86,415	92,196	78,252	72,718	83,486
53	87,129	83,755	90,500	88,591	85,509	91,697	77,066	71,313	82,520
54	86,314	82,710	89,914	87,825	84,503	91,161	75,839	69,840	81,521
55	85,439	81,582	89,291	86,994	83,417	90,586	74,580	68,371	80,499
56	84,501	80,371	88,628	86,097	82,241	89,969	73,297	66,856	79,458
57	83,497	79,072	87,872	85,130	80,972	89,307	71,980	65,307	78,388
58	82,418	77,677	87,165	84,086	79,602	88,594	70,602	63,695	77,261
59	81,255	76,174	86,350	82,959	78,122	87,826	69,124	61,982	76,042
60	80,000	74,555	85,469	81,744	76,527	86,997	67,521	60,144	74,705
61	78,648	72,816	84,515	80,435	74,814	86,101	65,777	58,163	73,235
62	77,198	70,960	83,485	79,032	72,985	85,133	63,901	56,054	71,638
63	75,656	68,997	82,380	77,537	71,046	84,094	61,924	53,862	69,928
64	74,030	66,944	81,202	75,956	69,009	82,984	59,889	51,648	68,130
65	72,326	64,812	79,951	74,291	66,882	81,801	57,826	49,455	66,258
66	70,548	62,611	78,627	72,545	64,672	80,544	55,764	47,318	64,337
67	68,691	60,340	77,222	70,712	62,379	79,203	53,693	45,222	62,360
68	66,740	57,987	75,714	68,782	59,997	77,759	51,551	43,095	60,274
69	64,675	55,535	74,077	66,740	57,519	76,188	49,252	40,846	58,007
70	62,482	52,974	72,291	64,576	54,940	74,472	46,745	38,383	55,519
71	60,161	50,310	70,350	62,293	52,269	72,606	44,002	35,708	52,782
72	57,723	47,560	68,258	59,896	49,519	70,590	41,076	32,865	49,845
73	55,179	44,742	66,022	57,385	46,697	68,419	38,096	29,977	46,842
74	52,546	41,882	63,653	54,762	43,813	66,088	35,236	27,213	43,952
75	49,841	39,004	61,161	52,032	40,880	63,597	32,624	24,697	41,306
76	47,077	36,129	58,552	49,205	37,915	60,948	30,307	22,476	38,948
77	44,266	33,274	55,830	46,296	34,941	58,147	28,261	20,531	36,850
78	41,419	30,458	52,997	43,324	31,984	55,204	26,422	18,805	34,940
79	38,548	27,699	50,057	40,310	29,073	52,130	24,712	17,229	33,131
80	35,668	25,020	47,017	37,277	26,238	48,940	23,070	15,752	31,354
81	32,799	23,448	43,886	34,249	23,512	45,648	21,462	14,349	29,565
82	29,963	20,014	40,678	31,252	20,929	42,271	19,886	13,027	27,752
83	27,189	17,754	37,412	28,314	18,526	38,827	18,374	11,827	25,938
84	24,507	15,710	34,110	25,463	16,341	35,336	16,989	10,821	24,176
85	21,954	13,927	30,798	22,730	14,413	31,820	15,827	10,114	22,554

SECTION 5 - LIFE TABLES

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Table 5-3. Expectation of Life at Single Years of Age, by Color and Sex: United States, 1971

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	71.0	67.4	74.8	71.9	68.3	75.6	65.2	61.2	69.3
1	71.4	67.9	75.1	72.1	68.6	75.8	66.2	62.3	70.2
2	70.5	67.0	74.2	71.2	67.7	74.8	65.3	61.4	69.3
3	69.5	66.0	73.2	70.2	66.7	73.9	64.4	60.5	68.4
4	68.6	65.1	72.3	69.3	65.8	72.9	63.4	59.5	67.4
5	67.6	64.1	71.3	68.3	64.8	72.0	62.5	58.6	66.5
6	66.7	63.1	70.3	67.4	63.9	71.0	61.5	57.6	65.5
7	65.7	62.2	69.4	66.4	62.9	70.0	60.5	56.7	64.5
8	64.7	61.2	68.4	65.4	61.9	69.0	59.6	55.7	63.5
9	63.8	60.2	67.4	64.4	61.0	68.0	58.6	54.7	62.6
10	62.8	59.2	66.4	63.5	60.0	67.1	57.6	53.7	61.6
11	61.8	58.3	65.4	62.5	59.0	66.1	56.6	52.8	60.6
12	60.8	57.3	64.5	61.5	58.0	65.1	55.6	51.8	59.6
13	59.8	56.3	63.5	60.5	57.0	64.1	54.7	50.8	58.7
14	58.9	55.3	62.5	59.5	56.1	63.1	53.7	49.9	57.7
15	57.9	54.4	61.5	58.6	55.1	62.2	52.8	48.9	56.7
16	56.9	53.4	60.5	57.6	54.2	61.2	51.8	48.0	55.7
17	56.0	52.5	59.6	56.7	53.2	60.2	50.9	47.1	54.8
18	55.1	51.6	58.6	55.7	52.3	59.3	50.0	46.2	53.8
19	54.1	50.7	57.7	54.8	51.4	58.3	49.0	45.3	52.9
20	53.2	49.8	56.7	53.9	50.5	57.3	48.2	44.4	52.0
21	52.3	48.9	55.7	52.9	49.6	56.4	47.3	43.6	51.0
22	51.3	48.0	54.8	52.0	48.7	55.4	46.4	42.8	50.1
23	50.4	47.1	53.8	51.1	47.8	54.4	45.5	41.9	49.2
24	49.5	46.2	52.9	50.1	46.9	53.5	44.7	41.1	48.2
25	48.6	45.3	51.9	49.2	46.0	52.5	43.8	40.3	47.3
26	47.6	44.4	50.9	48.2	45.0	51.5	42.9	39.5	46.4
27	46.7	43.5	50.0	47.3	44.1	50.6	42.0	38.7	45.5
28	45.8	42.6	49.0	46.4	43.2	49.6	41.2	37.8	44.5
29	44.8	41.7	48.1	45.4	42.3	48.6	40.3	37.0	43.6
30	43.9	40.8	47.1	44.5	41.3	47.7	39.4	36.2	42.7
31	43.0	39.8	46.2	43.5	40.4	46.7	38.6	35.4	41.8
32	42.0	38.9	45.2	42.6	39.5	45.8	37.7	34.6	40.9
33	41.1	38.0	44.3	41.6	38.5	44.8	36.9	33.8	40.0
34	40.2	37.1	43.3	40.7	37.6	43.8	36.0	33.0	39.2
35	39.3	36.2	42.4	39.8	36.7	42.9	35.2	32.2	38.3
36	38.3	35.3	41.4	38.8	35.7	41.9	34.4	31.4	37.4
37	37.4	34.4	40.5	37.9	34.8	41.0	33.6	30.6	36.6
38	36.5	33.5	39.6	37.0	33.9	40.1	32.8	29.8	35.7
39	35.6	32.6	38.7	36.0	33.0	39.1	32.0	29.1	34.9
40	34.7	31.7	37.7	35.1	32.1	38.2	31.2	28.3	34.0
41	33.8	30.8	36.8	34.2	31.2	37.3	30.4	27.6	33.2
42	32.9	30.0	35.9	33.3	30.3	36.3	29.6	26.8	32.4
43	32.0	29.1	35.0	32.4	29.4	35.4	28.8	26.1	31.6
44	31.2	28.2	34.1	31.5	28.6	34.5	28.0	25.4	30.8
45	30.3	27.4	33.2	30.6	27.7	33.6	27.3	24.6	30.0
46	29.4	26.6	32.3	29.8	26.9	32.7	26.5	23.9	29.2
47	28.6	25.7	31.5	28.9	26.0	31.8	25.8	23.2	28.4
48	27.7	24.9	30.6	28.1	25.2	30.9	25.1	22.5	27.6
49	26.9	24.1	29.7	27.2	24.4	30.0	24.3	21.8	26.8
50	26.1	23.3	28.9	26.4	23.6	29.2	23.6	21.2	26.1
51	25.3	22.5	28.0	25.5	22.8	28.3	22.9	20.5	25.3
52	24.5	21.8	27.2	24.7	22.0	27.4	22.2	19.9	24.6
53	23.7	21.0	26.3	23.9	21.2	26.6	21.6	19.3	23.9
54	22.9	20.3	25.5	23.1	20.5	25.7	20.9	18.7	23.2
55	22.1	19.5	24.7	22.3	19.7	24.9	20.3	18.1	22.5
56	21.4	18.8	23.8	21.6	19.0	24.1	19.6	17.5	21.8
57	20.6	18.1	23.0	20.8	18.3	23.2	19.0	16.9	21.0
58	19.9	17.5	22.2	20.1	17.6	22.4	18.3	16.3	20.3
59	19.2	16.8	21.4	19.3	16.9	21.6	17.7	15.7	19.7
60	18.5	16.1	20.6	18.6	16.2	20.8	17.1	15.2	19.0
61	17.8	15.5	19.9	17.9	15.6	20.0	16.6	14.7	18.4
62	17.1	14.9	19.1	17.2	15.0	19.2	16.0	14.2	17.8
63	16.4	14.3	18.4	16.5	14.4	18.5	15.5	13.8	17.2
64	15.8	13.7	17.6	15.9	13.8	17.7	15.0	13.3	16.6
65	15.1	13.2	16.9	15.2	13.2	17.0	14.6	12.9	16.1
66	14.5	12.6	16.2	14.6	12.6	16.2	14.1	12.5	15.6
67	13.9	12.1	15.4	13.9	12.1	15.5	13.6	12.0	15.1
68	13.3	11.6	14.7	13.3	11.6	14.8	13.2	11.6	14.6
69	12.7	11.0	14.1	12.7	11.0	14.1	12.7	11.2	14.1
70	12.1	10.6	13.4	12.1	10.5	13.4	12.4	10.9	13.7
71	11.6	10.1	12.7	11.5	10.0	12.7	12.2	10.7	13.4
72	11.0	9.6	12.1	11.0	9.6	12.1	12.0	10.6	13.2
73	10.5	9.2	11.5	10.4	9.1	11.4	11.9	10.5	13.0
74	10.0	8.8	10.9	9.9	8.7	10.8	11.8	10.5	12.8
75	9.5	8.4	10.4	9.4	8.3	10.2	11.7	10.6	12.6
76	9.1	8.1	9.8	9.1	8.0	9.6	11.6	10.6	12.3
77	8.6	7.7	9.2	8.6	7.5	9.1	11.3	10.5	12.0
78	8.2	7.4	8.7	8.2	7.2	8.5	11.1	10.4	11.6
79	7.7	7.0	8.2	7.5	6.8	8.0	10.8	10.3	11.2
80	7.3	6.7	7.7	7.1	6.5	7.5	10.5	10.2	10.8
81	6.9	6.4	7.2	6.7	6.2	7.0	10.3	10.1	10.4
82	6.5	6.2	6.7	6.3	5.9	6.5	10.0	10.1	10.1
83	6.1	5.9	6.3	5.9	5.6	6.1	9.8	10.0	9.7
84	5.7	5.6	5.8	5.5	5.2	5.6	9.6	9.9	9.4
85	5.3	5.2	5.4	5.1	4.9	5.2	9.2	9.5	9.0

SECTION 5 - LIFE TABLES

Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1971

[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								
	1971	1970	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
WHITE, MALE									
0-----	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1-----	98,094	97,990	97,408	96,931	95,188	93,768	91,975	87,674	86,655
5-----	97,780	97,663	97,015	96,403	94,150	91,738	88,842	82,972	80,864
10-----	97,562	97,431	96,758	96,069	93,601	90,810	87,530	81,519	79,109
15-----	97,333	97,195	96,503	95,728	93,089	90,074	86,546	80,549	78,037
20-----	96,609	96,482	95,908	95,104	92,293	88,904	84,997	79,116	76,276
25-----	95,696	95,526	94,294	93,261	90,291	87,371	83,061	77,047	73,907
30-----	94,910	94,721	94,401	93,489	90,092	85,707	80,888	74,810	71,210
35-----	94,052	93,847	93,589	92,543	88,713	83,812	78,441	72,108	68,245
40-----	92,854	92,632	92,427	91,173	86,880	81,457	75,733	68,848	64,654
45-----	90,976	90,705	90,533	89,002	84,285	78,345	72,696	65,115	61,269
50-----	88,023	87,647	87,424	85,601	80,521	74,288	69,107	60,741	57,274
55-----	83,417	82,952	82,463	80,496	75,156	68,981	64,574	55,622	52,491
60-----	76,527	75,886	75,485	73,172	67,787	61,933	58,498	48,987	46,452
65-----	66,882	66,231	65,834	63,541	58,305	52,964	50,663	40,852	38,245
70-----	54,960	54,029	53,825	51,735	46,739	41,880	40,873	31,527	30,640
75-----	40,880	40,258	40,207	38,104	33,404	29,671	29,205	21,585	21,287
80-----	26,238	25,883	25,993	24,005	19,860	17,221	17,655	12,160	12,266
85-----	14,413	13,591	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-----	96,767	96,544	95,301	94,911	91,696	91,268	89,499	78,065	74,674
5-----	96,292	95,986	94,570	93,921	89,920	88,412	85,195	68,589	64,385
10-----	95,989	95,688	94,234	93,453	89,211	87,311	83,768	66,377	61,730
15-----	95,671	95,364	93,874	92,965	88,417	86,152	82,332	64,478	59,667
20-----	94,604	94,300	93,108	91,941	86,770	83,621	79,057	61,426	56,733
25-----	92,632	92,358	91,825	90,285	84,055	79,516	74,540	57,736	53,285
30-----	90,506	90,270	90,270	88,327	80,865	75,083	70,344	54,073	49,867
35-----	87,975	87,778	86,331	85,940	77,185	70,049	65,873	49,865	46,541
40-----	84,694	84,652	85,744	82,832	72,830	64,710	61,353	45,414	42,092
45-----	80,569	80,415	78,686	76,514	67,514	58,432	54,589	40,563	37,230
50-----	75,316	74,979	77,239	72,891	60,766	51,748	51,880	35,427	34,764
55-----	68,371	68,036	70,351	65,122	52,867	44,436	46,581	29,754	29,987
60-----	60,144	59,587	61,669	55,535	44,370	36,790	40,506	23,750	24,194
65-----	49,455	49,883	45,198	43,912	35,312	29,314	34,042	17,806	19,015
70-----	38,383	39,259	39,914	35,018	27,688	21,741	26,923	12,295	13,822
75-----	24,697	28,223	29,064	25,472	19,765	14,619	18,854	7,494	8,892
80-----	15,752	18,373	19,994	16,904	12,352	8,239	11,615	3,894	4,831
85-----	10,114	11,148	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-----	98,545	98,447	98,036	97,645	96,211	95,037	93,608	89,774	88,939
5-----	98,289	98,187	97,709	97,199	95,309	93,216	90,721	85,349	83,476
10-----	98,130	98,030	97,525	96,960	94,890	92,466	89,564	83,979	81,723
15-----	97,991	97,893	97,375	96,756	94,534	91,894	88,712	83,093	80,680
20-----	97,708	97,610	96,454	95,984	93,984	90,939	87,281	81,750	78,978
25-----	97,397	97,290	96,844	96,072	93,228	89,524	85,163	79,865	76,588
30-----	97,046	96,935	96,499	95,605	92,320	87,972	82,740	77,676	73,887
35-----	96,589	96,465	96,026	94,977	91,211	86,248	80,206	75,200	70,971
40-----	95,898	95,740	95,326	94,080	89,805	84,256	77,624	72,425	67,995
45-----	94,777	94,635	92,725	92,725	87,920	81,780	74,871	69,341	64,677
50-----	93,086	92,892	92,522	90,685	85,267	78,572	71,547	65,629	61,005
55-----	90,586	90,317	89,967	87,699	81,520	74,321	67,323	61,053	56,509
60-----	86,997	86,636	86,339	83,279	76,200	68,462	61,704	54,900	50,752
65-----	81,801	81,485	80,739	76,773	68,701	60,499	54,299	47,086	44,806
70-----	74,472	73,981	72,507	67,545	58,363	49,932	44,638	37,482	35,206
75-----	63,597	63,185	60,461	54,397	44,685	37,024	32,777	26,569	25,362
80-----	48,940	48,204	44,676	38,026	28,882	23,053	20,492	15,929	15,349
85-----	31,820	30,715	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-----	97,381	97,230	96,172	95,913	93,318	92,796	91,251	81,493	78,525
5-----	96,985	96,751	95,543	95,055	91,710	90,185	87,149	72,768	68,056
10-----	96,787	96,528	94,679	94,679	91,092	89,201	85,607	70,508	65,111
15-----	96,592	96,342	95,057	94,343	90,363	88,088	83,954	68,218	62,384
20-----	96,147	95,934	94,660	93,544	88,505	85,078	80,154	64,764	59,053
25-----	95,476	95,273	94,005	92,336	85,961	81,067	75,359	61,430	55,795
30-----	94,602	94,394	93,070	90,799	83,147	76,816	70,633	58,281	52,773
35-----	93,285	93,220	91,670	88,805	79,879	72,192	65,857	54,595	49,567
40-----	91,338	91,391	89,676	86,052	75,908	67,271	61,130	50,568	46,146
45-----	88,742	88,746	86,793	82,257	71,061	61,365	56,230	45,947	42,279
50-----	85,258	85,134	82,979	77,007	64,886	54,920	50,780	40,886	37,681
55-----	80,499	80,352	77,362	70,196	57,419	47,074	44,742	35,415	31,124
60-----	74,705	74,131	69,941	61,758	49,102	38,761	37,954	28,908	27,524
65-----	66,258	66,324	60,825	52,358	40,716	30,852	31,044	22,302	21,995
70-----	55,519	56,680	51,274	42,612	32,579	23,341	24,107	15,871	16,140
75-----	41,306	45,227	40,540	32,981	24,668	16,576	17,216	10,657	11,066
80-----	31,354	33,793	30,315	23,712	17,157	10,822	11,151	6,324	6,708
85-----	22,554	23,231	19,744	15,550	10,658	6,033	5,972	3,029	3,567

SECTION 5 - LIFE TABLES

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Table 5-4. Life Table Values by Color and Sex: Death-Registration States, 1900-1902 to 1919-21, and United States, 1929-31 to 1971-Con.

[See headnote at beginning of table]

AGE, COLOR, AND SEX	AVERAGE NUMBER OF YEARS OF LIFE REMAINING								
	1971	1970	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
WHITE, MALE									
0	68.3	68.0	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1	68.6	68.4	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5	64.8	64.6	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10	60.0	59.8	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15	55.1	54.9	54.93	54.18	52.33	50.39	49.74	46.91	46.25
20	50.5	50.3	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25	46.0	45.8	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30	41.3	41.1	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35	36.7	36.5	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40	32.1	31.9	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45	27.7	27.6	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50	23.6	23.4	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55	19.7	19.6	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60	16.2	16.2	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65	13.2	13.1	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70	10.5	10.5	10.29	10.07	9.42	9.20	9.51	8.83	9.03
75	8.3	8.3	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80	6.5	6.5	5.89	5.88	5.38	5.26	5.47	5.09	5.10
85	4.9	5.2	4.34	4.35	4.02	3.99	4.06	3.88	3.81
ALL OTHER, MALE									
0	61.2	61.3	61.48	58.91	52.33	47.55	47.14	34.05	32.54
1	62.3	62.5	63.50	61.06	56.05	51.08	51.63	42.53	42.46
5	58.6	58.9	59.98	57.69	53.13	48.69	50.18	44.25	45.06
10	53.7	54.0	55.19	52.96	48.54	44.27	45.99	40.65	41.90
15	48.9	49.2	50.39	48.23	43.95	39.83	41.75	36.77	38.26
20	44.4	44.7	45.78	43.73	39.74	35.95	38.36	33.46	35.11
25	40.3	40.6	41.38	39.49	35.94	32.67	35.54	30.44	32.21
30	36.2	36.5	37.05	35.31	32.25	29.45	32.51	27.33	29.25
35	32.2	32.5	32.81	31.21	28.67	26.39	29.54	24.42	26.16
40	28.3	28.6	28.72	27.29	25.23	23.36	26.53	21.57	23.12
45	24.6	24.9	24.89	23.59	22.02	20.59	23.55	18.85	20.09
50	21.2	21.6	21.28	20.25	19.18	17.92	20.47	16.21	17.34
55	18.1	18.5	18.11	17.36	16.67	15.46	17.50	13.82	14.69
60	15.2	15.7	15.29	14.91	14.38	13.15	14.74	11.67	12.62
65	12.9	13.3	12.84	12.75	12.18	10.87	12.07	9.74	10.38
70	10.9	11.2	10.81	10.74	10.06	8.78	9.58	8.00	8.33
75	10.6	9.7	8.93	8.83	8.09	6.99	7.61	6.58	6.60
80	10.2	8.5	6.87	7.07	6.46	5.42	5.83	5.53	5.12
85	9.5	7.5	5.08	5.38	5.08	4.30	4.53	4.48	4.04
WHITE, FEMALE									
0	75.6	75.6	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1	75.8	75.8	74.68	72.77	68.93	64.93	61.51	58.69	56.39
5	72.0	72.0	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10	67.1	67.1	66.05	64.26	60.85	57.65	55.17	53.57	52.15
15	62.2	62.2	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20	57.3	57.4	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25	52.5	52.5	51.45	49.77	46.78	44.25	42.55	40.88	40.05
30	47.7	47.7	46.63	45.00	42.21	39.99	38.72	36.96	36.42
35	42.9	43.0	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40	38.2	38.3	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45	33.6	33.7	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50	29.2	29.3	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55	24.9	25.0	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60	20.8	21.0	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65	17.0	17.1	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70	13.4	13.6	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75	10.2	10.5	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80	7.5	7.9	6.67	6.59	5.88	5.63	5.70	5.35	5.50
85	5.2	6.0	4.66	4.83	4.34	4.24	4.24	4.06	4.10
ALL OTHER, FEMALE									
0	69.3	69.4	66.47	62.70	55.51	49.51	46.92	37.67	35.04
1	70.2	70.4	68.10	64.37	58.47	52.33	50.39	45.15	43.54
5	66.5	66.7	64.54	60.93	55.47	49.81	48.70	46.42	46.04
10	61.6	61.8	59.72	56.17	50.83	45.33	44.54	42.84	43.02
15	56.7	57.0	54.85	51.36	46.22	40.87	40.36	39.18	39.79
20	52.0	52.2	50.07	46.77	42.14	37.22	37.15	36.14	36.89
25	47.3	47.5	45.40	42.35	38.31	33.93	34.35	32.97	33.90
30	42.7	42.9	40.83	38.02	34.52	30.67	31.48	29.61	30.70
35	38.3	38.5	36.41	33.82	30.83	27.47	28.58	26.44	27.52
40	34.0	34.2	32.16	29.82	27.31	24.30	25.60	23.34	24.37
45	30.0	30.1	28.14	26.07	24.00	21.39	22.61	20.43	21.36
50	26.1	26.3	24.31	22.67	21.04	18.60	19.76	17.65	18.67
55	22.5	22.7	20.89	19.62	18.44	16.27	17.09	14.98	15.88
60	19.0	19.4	17.83	16.95	16.14	14.22	14.69	12.78	13.60
65	16.1	16.4	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	12.6	11.5	10.10	10.15	9.80	8.62	8.37	7.55	7.90
80	10.8	9.6	7.66	8.15	8.00	6.90	6.58	6.05	6.48
85	9.0	7.8	5.44	6.15	6.38	5.48	5.22	5.09	5.10

SECTION 5 - LIFE TABLES

Table 5-5. Estimated Average Length of Life in Years, by Color and Sex: Death-Registration States, 1900-1928, and United States, 1929-71

[Estimated 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									
1971	71.0	67.4	74.8	71.9	68.3	75.6	65.2	61.2	69.3
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	64.2	64.2	63.2	65.7	55.6	54.4	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	62.4	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	57.4	60.6	60.7	59.3	62.4	45.7	44.9	46.7
1924	59.7	58.1	61.4	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

¹FIGURES BY COLOR EXCLUDE DATA FOR RESIDENTS OF NEW JERSEY, SEE TECHNICAL APPENDIX.

FILE

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 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.

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