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VITAL  
STATISTICS

*of the*

UNITED  
STATES

1976

VOLUME II-SECTION 5

*Life Tables*



VITAL STATISTICS OF THE UNITED STATES, 1976  
VOLUME II-SECTION 5

*Life Tables*

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U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL CENTER FOR HEALTH STATISTICS

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Proportion of dying ( ${}_nq_x$ ) -----			1				
Number surviving ( ${}_nl_x$ ) -----			1	2		4	
Number dying ( ${}_nd_x$ ) -----			1				
Stationary population ( ${}_nL_x$ and $T_x$ ) -----			1				
Average remaining lifetime ( ${}^o e_x$ ) -----			1		3	4	
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Sex specific -----			1	2	3		5
Color specific -----			1	2	3		5 <sup>3</sup>
Total population -----			1	2	3		5

<sup>1</sup>Entire United States for 1929-76; death-registration States for 1900-1928.

<sup>2</sup>Entire United States for specified years from 1929 to 1976; death-registration States for specified years from 1900 to 1921.

<sup>3</sup>New 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 1976 assumes a hypothetical cohort subject throughout its lifetime to the age-specific mortality rates prevailing for the actual population in 1976. 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;<sup>1</sup> since 1953 a modified method has been employed.<sup>2</sup> 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  $e_x^o$  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., and New York). The sample is taken by selecting 1 certificate out of every 10 death certificates received between two dates a month apart.

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

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

## Life table values for 1976

The data used to prepare the abridged U.S. life tables for 1976 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 1976 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 ages in 1976 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 72.8 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 compared with males within each color group, and of white males and females compared with those in the all other category. At age 1, life expectancy is 72.9 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, 75,087 out of the origi-

nal 100,000 (or 75.1 percent) were alive at exact age 65 (table 5-2). Survivorship to other ages, by color and sex, is shown as percentage in table 5-A.

*Median length of life.*—Instead of determining the proportion alive at a specified age, one can compute the age at which a specified proportion of the cohort is still alive. For example, one can determine the age at which exactly half the cohort (50,000 persons) still remain alive, and half have died. This value, known as the median age at death, is shown at the bottom of table 5-A, by color and sex. For example, the median age for white males is 7.6 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 both Alaska and Hawaii beginning with 1959. However, it is not believed that the inclusion of these two States materially affects life table values.

Table 5-A. Selected life table values, by age, color, and sex: United States, 1976

Life table value and age	Total	White		All other	
		Male	Female	Male	Female
<b>Expectation of life:</b>					
At birth .....	72.8	69.7	77.3	64.1	72.6
At age 1 .....	72.9	69.8	77.2	64.9	73.3
At age 21 .....	53.7	50.7	57.8	45.9	53.9
At age 65 .....	16.0	13.7	18.1	13.8	17.6
<b>Percent surviving from birth:</b>					
To age 1 .....	98.5	98.5	98.8	97.4	97.8
To age 21 .....	97.3	97.0	98.0	95.5	96.8
To age 65 .....	75.1	70.1	83.5	55.0	72.1
Median age at death.....	76.5	73.2	80.8	67.6	75.5

Table 5-B. Selected life table values, by color and sex: Death-registration States, 1900-1902, and United States, selected years 1960-76

Life table value and year	Total	White		All other	
		Male	Female	Male	Female
<b>Life expectancy (<math>e_x</math>) at birth:</b>					
1976.....	72.8	69.7	77.3	64.1	72.6
1975.....	72.5	69.4	77.2	63.6	72.3
1974.....	71.9	68.9	76.6	62.9	71.3
1970.....	70.9	68.0	75.6	61.3	69.4
1960.....	69.7	67.4	74.1	61.1	66.3
1900.....	47.3	46.6	48.7	32.5	33.5
<b>at age 20:</b>					
1976.....	54.6	51.6	58.7	46.8	54.9
1975.....	54.4	51.4	58.6	46.3	54.7
1900-1902.....	42.8	42.2	43.8	35.1	36.9
<b>Percent reaching age 65:</b>					
1976.....	75.1	70.1	83.5	55.0	72.1
1975.....	74.6	69.4	83.2	54.3	71.5
1900-1902.....	40.9	39.2	43.8	19.0	22.0

Trends in life table values are shown in tables 5-4 and 5-5. Table 5-4 shows the expectation of life, and the number of cohort survivors at specified ages around census years since 1900, and for 1976. Life expectancy among white males exactly 20 years old, for instance, has increased from 42.2 years in 1900-1902 to 51.6 years in 1976 (text table 5-B). Where 39.2 percent of white males survived to age 65 in 1900-1902, now 70.1 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.<sup>3</sup> For example, life expectancy has increased by 3.2 years among white females since 1960, or an average increase of 0.20 year of life per calendar year. Values for other years, by color and sex, are shown in table 5-B, page 5-4.

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

#### Technical appendix

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

*Standard table.*—U.S. life tables for the decennial period 1969-71 are used as the standard table in constructing the 1976 abridged life tables.

*Nonresidents, 1976.*—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 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 0.0099—out of every 1,000 males alive and exactly 20 years old at the beginning of the period about 10 will die before reaching their 25th birthday. In other words, the  ${}_nq_x$  values represent *probabilities* that persons who are alive at the beginning of a specific age interval will die before reaching the beginning of the next age interval. The "proportion dying" column forms the basis of the life table; the life table is so constructed that all other columns are derived from it.

*Column 3—Number surviving ( $l_x$ ).—*This column shows the number of persons, starting with a cohort of 100,000 live births, who survive to the exact age marking the beginning of each age interval. The  $l_x$  values are computed from the  ${}_nq_x$  values, which are successively applied to the remainder of the original 100,000 persons still alive at the beginning of each age interval. Thus out of 100,000 male babies born alive, 98,305 will complete the first year of life and enter the second; 98,002 will begin the sixth year; 96,900 will reach age 20; and 15,839 will live to age 85.

*Column 4—Number dying ( ${}_nd_x$ ).—*This column shows the number dying in each successive age interval out of 100,000 live births. Out of 100,000 males born alive, 1,695 die in the first year of life, 303 in the succeeding 4 years, 957 in the 5-year period between exact ages 20 and 25, and 15,839 die after reaching age 85. Each figure in column 4 is the difference between two successive figures in column 3.

*Columns 5 and 6—Stationary population ( ${}_nL_x$  and  $T_x$ ).—*Suppose that a group of 100,000 individuals like that assumed in columns 3 and 4 is born every year and that the proportions dying in each such group in each age interval throughout the lives of the members are exactly those shown in column 2. If there were no migration and if the births were evenly distributed over the calendar year, the survivors of these births would make up what is called a stationary population—stationary because in such a population the number of persons living in any given age group would never change. When an individual

left the group, either by death or by growing older and entering the next higher age group, his place would immediately be taken by someone entering from the next lower age group. Thus a census taken at any time in such a stationary community would always show the same total population and the same numerical distribution of that population among the various age groups. In such a stationary population supported by 100,000 annual births, column 3 shows the number of persons who, each year, reach the birthday which marks the beginning of the age interval indicated in column 1, and column 4 shows the number of persons who die each year in the indicated age interval.

Column 5 shows the number of persons in the stationary population in the indicated age interval. For example, the figure given for males in the age interval 20-25 is 482,137. This means that in a stationary population of males supported by 100,000 annual births and with proportions dying in each age group always in accordance with column 2, a census taken on any date would show 482,137 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 4,944,426 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 6,899,787.

*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 482,137 for males in the age interval 20-25 is the total number of years lived between the 20th and 25th birthdays by the 96,900 (column 3) who reached the 20th birthday out of 100,000 males born alive. The corresponding figure (4,944,426) in col-

umn 6 is the total number of years lived after attaining age 20 by the 96,900 reaching that age. This number of years divided by the number of persons (4,944,426 divided by 96,900) gives 51.0 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, 1976

AGE INTERVAL	PROPORTION DYING	OF 100,000 BORN ALIVE		STATIONARY POPULATION		AVERAGE REMAINING LIFETIME
PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS	PROPORTION OF PERSONS ALIVE AT BEGINNING OF AGE INTERVAL DYING DURING INTERVAL	NUMBER LIVING AT BEGINNING OF AGE INTERVAL	NUMBER DYING DURING AGE INTERVAL	IN THE AGE INTERVAL	IN THIS AND ALL SUBSEQUENT AGE INTERVALS	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
$x$ to $x+n$	$nq_x$	$l_x$	$nd_x$	$nL_x$	$T_x$	$e_x$
<b>TOTAL</b>						
0-1	0.0154	100,000	1,536	98,536	7,277,571	72.8
1-5	.0028	98,464	272	393,224	7,179,035	72.9
5-10	.0017	98,192	171	490,500	6,785,811	69.1
10-15	.0017	98,021	170	489,746	6,295,311	64.2
15-20	.0049	97,851	477	488,173	5,805,565	59.3
20-25	.0066	97,374	638	485,295	5,317,392	54.6
25-30	.0064	96,736	624	482,120	4,832,097	50.0
30-35	.0072	96,112	695	478,898	4,349,977	45.3
35-40	.0099	95,417	941	474,883	3,871,079	40.6
40-45	.0155	94,476	1,467	468,954	3,396,196	35.9
45-50	.0246	93,009	2,291	459,675	2,927,242	31.5
50-55	.0378	90,718	3,428	445,553	2,467,567	27.2
55-60	.0573	87,290	4,999	424,627	2,022,014	23.2
60-65	.0875	82,291	7,204	394,276	1,597,387	19.4
65-70	.1200	75,087	9,013	353,781	1,203,111	16.0
70-75	.1806	66,074	11,932	301,485	849,330	12.9
75-80	.2690	54,142	14,567	234,802	547,845	10.1
80-85	.3685	39,575	14,585	160,822	313,043	7.9
85 AND OVER	1.0000	24,990	24,990	152,221	152,221	6.1
<b>MALE</b>						
0-1	0.0169	100,000	1,695	98,398	6,899,787	69.0
1-5	.0031	98,305	303	392,523	6,801,389	69.2
5-10	.0021	98,002	201	489,475	6,408,866	65.4
10-15	.0022	97,801	215	488,571	5,919,391	60.5
15-20	.0070	97,586	686	486,394	5,430,820	55.7
20-25	.0099	96,900	957	482,137	4,944,426	51.0
25-30	.0093	95,963	893	477,447	4,462,289	46.5
30-35	.0098	95,050	931	473,003	3,984,842	41.9
35-40	.0130	94,119	1,222	467,727	3,511,839	37.3
40-45	.0201	92,897	1,865	460,132	3,044,112	32.8
45-50	.0319	91,032	2,907	448,363	2,583,980	28.4
50-55	.0498	88,125	4,387	430,368	2,135,617	24.2
55-60	.0762	83,738	6,379	403,602	1,705,249	20.4
60-65	.1180	77,359	9,131	364,905	1,301,647	16.8
65-70	.1653	68,228	11,278	313,726	936,742	13.7
70-75	.2399	56,950	13,661	251,047	623,016	10.9
75-80	.3421	43,289	14,811	179,032	371,969	8.6
80-85	.4438	28,478	12,639	109,447	192,937	6.8
85 AND OVER	1.0000	15,839	15,839	83,490	83,490	5.3
<b>FEMALE</b>						
0-1	0.0137	100,000	1,369	98,681	7,665,372	76.7
1-5	.0024	98,631	239	393,962	7,566,691	76.7
5-10	.0014	98,392	140	491,581	7,172,729	72.9
10-15	.0012	98,252	123	490,983	6,681,148	68.0
15-20	.0027	98,129	261	490,037	6,190,165	63.1
20-25	.0032	97,868	317	488,561	5,700,128	58.2
25-30	.0036	97,551	354	486,899	5,211,567	53.4
30-35	.0047	97,197	460	484,907	4,724,668	48.6
35-40	.0069	96,737	667	482,131	4,239,761	43.8
40-45	.0112	96,070	1,074	477,838	3,757,630	39.1
45-50	.0177	94,996	1,679	471,029	3,279,792	34.5
50-55	.0266	93,317	2,478	460,741	2,808,763	30.1
55-60	.0397	90,839	3,605	445,656	2,348,022	25.8
60-65	.0599	87,234	5,229	423,811	1,902,366	21.8
65-70	.0825	82,005	6,769	394,059	1,478,555	18.0
70-75	.1342	75,236	10,098	352,288	1,084,496	14.4
75-80	.2180	65,138	14,203	291,519	732,208	11.2
80-85	.3221	50,935	16,408	213,866	440,689	8.7
85 AND OVER	1.0000	34,527	34,527	226,823	226,823	6.6

## SECTION 5 - LIFE TABLES

5-9

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1976—Con.

AGE INTERVAL  PERIOD OF LIFE BETWEEN TWO EXACT AGES STATED IN YEARS  (1)  $x$ to $x+n$	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)  $nq_x$	NUMBER LIVING AT BEGINNING OF AGE INTERVAL  (3)  $l_x$	NUMBER DYING DURING AGE INTERVAL  (4)  $nd_x$	IN THE AGE INTERVAL  (5)  $nL_x$	IN THIS AND ALL SUBSEQUENT AGE INTERVALS  (6)  $T_x$	AVERAGE NUMBER OF YEARS OF LIFE REMAINING AT BEGINNING OF AGE INTERVAL  (7)  $e_x$
<b>WHITE</b>						
0-1	0.0134	100,000	1,339	98,740	7,347,122	73.5
1-5	.0025	98,661	250	394,069	7,248,382	73.5
5-10	.0016	98,411	162	491,622	6,854,313	69.6
10-15	.0017	98,249	165	490,896	6,362,691	64.8
15-20	.0048	98,084	473	489,339	5,871,795	59.9
20-25	.0060	97,611	585	486,597	5,382,456	55.1
25-30	.0055	97,026	537	483,778	4,895,859	50.5
30-35	.0061	96,489	590	481,033	4,412,081	45.7
35-40	.0084	95,899	803	477,630	3,931,048	41.0
40-45	.0135	95,096	1,282	472,512	3,453,418	36.3
45-50	.0223	93,814	2,089	464,203	2,980,906	31.8
50-55	.0348	91,725	3,196	451,170	2,516,703	27.4
55-60	.0541	88,529	4,787	431,365	2,065,533	23.3
60-65	.0839	83,742	7,028	401,989	1,634,168	19.5
65-70	.1177	76,714	9,031	361,940	1,232,179	16.1
70-75	.1754	67,683	11,870	309,782	870,239	12.9
75-80	.2659	55,813	14,843	242,586	560,457	10.0
80-85	.3735	40,970	15,304	166,014	317,871	7.8
85 AND OVER	1.0000	25,666	25,666	151,857	151,857	5.9
<b>WHITE, MALE</b>						
0-1	0.0149	100,000	1,491	98,614	6,973,954	69.7
1-5	.0028	98,509	280	393,398	6,875,340	69.8
5-10	.0019	98,229	188	490,646	6,481,942	66.0
10-15	.0021	98,041	210	489,781	5,991,296	61.1
15-20	.0069	97,831	678	487,627	5,501,515	56.2
20-25	.0091	97,153	883	483,567	5,013,888	51.6
25-30	.0079	96,270	764	479,396	4,530,321	47.1
30-35	.0082	95,506	782	475,642	4,050,925	42.4
35-40	.0109	94,724	1,031	471,221	3,575,283	37.7
40-45	.0174	93,693	1,632	464,689	3,104,062	33.1
45-50	.0290	92,061	2,665	454,112	2,639,373	28.7
50-55	.0461	89,396	4,123	437,393	2,185,261	24.4
55-60	.0724	85,273	6,173	411,825	1,747,868	20.5
60-65	.1141	79,100	9,026	373,920	1,336,043	16.9
65-70	.1635	70,074	11,456	322,583	962,123	13.7
70-75	.2362	58,618	13,848	258,996	639,540	10.9
75-80	.3416	44,770	15,295	185,293	380,544	8.5
80-85	.4513	29,475	13,303	112,721	195,251	6.6
85 AND OVER	1.0000	16,172	16,172	82,530	82,530	5.1
<b>WHITE, FEMALE</b>						
0-1	0.0118	100,000	1,179	98,873	7,731,540	77.3
1-5	.0022	98,821	218	394,778	7,632,667	77.2
5-10	.0013	98,603	133	492,656	7,237,889	73.4
10-15	.0012	98,470	119	492,080	6,745,233	68.5
15-20	.0026	98,351	258	491,151	6,253,153	63.6
20-25	.0029	98,093	281	489,769	5,762,002	58.7
25-30	.0031	97,812	302	488,327	5,272,233	53.9
30-35	.0040	97,510	394	486,624	4,783,906	49.1
35-40	.0059	97,116	575	484,248	4,297,282	44.2
40-45	.0096	96,541	928	480,553	3,813,034	39.5
45-50	.0158	95,613	1,512	474,526	3,332,481	34.9
50-55	.0242	94,101	2,273	465,167	2,857,955	30.4
55-60	.0369	91,828	3,388	451,137	2,392,788	26.1
60-65	.0564	88,440	4,988	430,437	1,941,651	22.0
65-70	.0796	83,452	6,642	401,677	1,511,214	18.1
70-75	.1281	76,810	9,837	360,915	1,109,537	14.4
75-80	.2135	66,973	14,299	300,597	748,622	11.2
80-85	.3256	52,674	17,153	220,767	448,025	8.5
85 AND OVER	1.0000	35,521	35,521	227,258	227,258	6.4

## SECTION 5 - LIFE TABLES

Table 5-1. Abridged Life Tables by Color and Sex: United States, 1976—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 $x+n$	$nq_x$	$l_x$	$n^d_x$	$n^L_x$	$T_x$	$e_x$
<b>ALL OTHER</b>						
0-1	0.0238	100,000	2,383	97,659	6,834,121	68.3
1-5	.0038	97,617	368	389,587	6,736,462	69.0
5-10	.0023	97,249	220	485,640	6,346,875	65.3
10-15	.0020	97,029	193	484,737	5,861,235	60.4
15-20	.0052	96,836	504	483,074	5,376,498	55.5
20-25	.0100	96,332	962	479,372	4,893,424	50.8
25-30	.0127	95,370	1,210	473,887	4,414,052	46.3
30-35	.0148	94,160	1,394	467,669	3,940,165	41.8
35-40	.0201	92,766	1,861	459,414	3,472,696	37.4
40-45	.0296	90,905	2,694	448,105	3,013,282	33.1
45-50	.0424	88,211	3,739	432,117	2,565,177	29.1
50-55	.0622	84,472	5,256	409,743	2,133,060	25.3
55-60	.0862	79,216	6,831	379,575	1,723,317	21.8
60-65	.1215	72,385	8,792	340,563	1,343,742	18.6
65-70	.1395	63,593	8,872	296,203	1,003,179	15.8
70-75	.2368	54,721	12,956	241,443	706,976	12.9
75-80	.3025	41,765	12,636	176,558	465,533	11.1
80-85	.3111	29,129	9,062	122,168	288,975	9.9
85 AND OVER	1.0000	20,067	20,067	166,807	166,807	8.3
<b>ALL OTHER, MALE</b>						
0-1	0.0259	100,000	2,586	97,454	6,414,805	64.1
1-5	.0042	97,414	407	388,694	6,317,351	64.9
5-10	.0027	97,007	266	484,312	5,928,657	61.1
10-15	.0025	96,741	243	483,212	5,444,345	56.3
15-20	.0076	96,498	729	480,917	4,961,133	51.4
20-25	.0150	95,769	1,436	475,442	4,480,216	46.8
25-30	.0193	94,333	1,824	467,136	4,004,774	42.5
30-35	.0216	92,509	2,002	457,706	3,537,638	38.2
35-40	.0286	90,507	2,592	446,342	3,079,932	34.0
40-45	.0398	87,915	3,498	431,191	2,633,590	30.0
45-50	.0555	84,417	4,682	410,843	2,202,399	26.1
50-55	.0810	79,735	6,459	383,121	1,791,556	22.5
55-60	.1114	73,276	8,160	346,536	1,408,435	19.2
60-65	.1558	65,116	10,144	300,709	1,061,899	16.3
65-70	.1807	54,972	9,934	250,281	761,190	13.8
70-75	.2766	45,038	12,457	193,953	510,909	11.3
75-80	.3466	32,581	11,293	133,650	316,956	9.7
80-85	.3647	21,288	7,764	85,971	183,306	8.6
85 AND OVER	1.0000	13,524	13,524	97,335	97,335	7.2
<b>ALL OTHER, FEMALE</b>						
0-1	0.0217	100,000	2,174	97,870	7,263,954	72.6
1-5	.0034	97,826	328	390,508	7,166,084	73.3
5-10	.0018	97,498	174	487,006	6,775,576	69.5
10-15	.0015	97,324	142	486,304	6,288,570	64.6
15-20	.0029	97,182	278	485,286	5,802,266	59.7
20-25	.0054	96,904	521	483,284	5,316,980	54.9
25-30	.0070	96,383	672	480,317	4,833,696	50.2
30-35	.0090	95,711	863	476,538	4,353,379	45.5
35-40	.0130	94,848	1,234	471,343	3,876,841	40.9
40-45	.0211	93,614	1,976	463,387	3,405,498	36.4
45-50	.0309	91,638	2,831	451,447	2,942,111	32.1
50-55	.0455	88,807	4,042	434,355	2,490,664	28.0
55-60	.0638	84,765	5,405	410,851	2,056,309	24.3
60-65	.0917	79,360	7,280	379,311	1,645,458	20.7
65-70	.1059	72,080	7,637	341,840	1,266,147	17.6
70-75	.2019	64,443	13,011	290,218	924,307	14.3
75-80	.2667	51,432	13,719	222,615	634,089	12.3
80-85	.2736	37,713	10,319	162,259	411,474	10.9
85 AND OVER	1.0000	27,394	27,394	249,215	249,215	9.1

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, 1976

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,464	98,305	98,631	98,661	98,509	98,821	97,617	97,414	97,826
2	98,372	98,201	98,551	98,575	98,412	98,748	97,498	97,284	97,719
3	98,299	98,121	98,487	98,509	98,338	98,690	97,400	97,176	97,630
4	98,241	98,056	98,435	98,456	98,279	98,642	97,318	97,085	97,557
5	98,192	98,002	98,392	98,411	98,229	98,603	97,249	97,007	97,498
6	98,150	97,954	98,356	98,372	98,185	98,569	97,191	96,939	97,450
7	98,112	97,910	98,325	98,336	98,144	98,540	97,142	96,879	97,410
8	98,078	97,869	98,298	98,304	98,106	98,514	97,099	96,827	97,377
9	98,048	97,833	98,274	98,275	98,071	98,491	97,062	96,781	97,349
10	98,021	97,801	98,252	98,249	98,041	98,470	97,029	96,741	97,324
11	97,997	97,773	98,232	98,226	98,015	98,451	96,999	96,705	97,299
12	97,973	97,745	98,212	98,203	97,988	98,432	96,968	96,669	97,274
13	97,944	97,710	98,190	98,175	97,954	98,410	96,934	96,627	97,247
14	97,905	97,659	98,163	98,137	97,904	98,384	96,891	96,572	97,217
15	97,851	97,586	98,129	98,084	97,831	98,351	96,836	96,498	97,182
16	97,781	97,488	98,088	98,014	97,733	98,310	96,768	96,404	97,142
17	97,695	97,367	98,039	97,928	97,612	98,261	96,686	96,286	97,096
18	97,596	97,226	97,985	97,829	97,471	98,207	96,587	96,143	97,042
19	97,488	97,069	97,927	97,722	97,316	98,150	96,469	95,971	96,978
20	97,374	96,900	97,868	97,611	97,153	98,093	96,332	95,769	96,904
21	97,253	96,720	97,808	97,497	96,982	98,037	96,173	95,534	96,818
22	97,126	96,529	97,746	97,379	96,803	97,981	95,994	95,268	96,721
23	96,996	96,332	97,682	97,259	96,621	97,925	95,797	94,975	96,614
24	96,865	96,135	97,617	97,141	96,442	97,869	95,588	94,662	96,501
25	96,736	95,943	97,551	97,026	96,270	97,812	95,370	94,333	96,383
26	96,609	95,757	97,484	96,915	96,106	97,755	95,143	93,989	96,260
27	96,485	95,576	97,416	96,807	95,950	97,697	94,907	93,631	96,131
28	96,362	95,400	97,346	96,701	95,800	97,637	94,663	93,262	95,997
29	96,238	95,225	97,273	96,596	95,653	97,575	94,414	92,887	95,857
30	96,112	95,050	97,197	96,489	95,506	97,510	94,160	92,509	95,711
31	95,983	94,873	97,116	96,379	95,357	97,441	93,901	92,129	95,557
32	95,850	94,694	97,030	96,266	95,206	97,367	93,635	91,745	95,395
33	95,712	94,510	96,938	96,149	95,051	97,289	93,360	91,352	95,224
34	95,568	94,319	96,841	96,027	94,891	97,205	93,071	90,941	95,042
35	95,417	94,119	96,737	95,899	94,724	97,116	92,766	90,507	94,848
36	95,256	93,908	96,625	95,762	94,547	97,020	92,442	90,047	94,641
37	95,084	93,683	96,504	95,616	94,359	96,916	92,098	89,560	94,419
38	94,899	93,442	96,373	95,458	94,156	96,802	91,730	89,044	94,178
39	94,697	93,181	96,229	95,285	93,935	96,678	91,334	88,496	93,911
40	94,476	92,897	96,070	95,096	93,693	96,541	90,905	87,915	93,614
41	94,234	92,588	95,894	94,888	93,428	96,390	90,441	87,296	93,284
42	93,969	92,250	95,700	94,659	93,136	96,224	89,939	86,638	92,920
43	93,678	91,880	95,487	94,406	92,813	96,041	89,400	85,939	92,523
44	93,359	91,475	95,253	94,125	92,456	95,838	88,824	85,199	92,096
45	93,009	91,032	94,996	93,814	92,061	95,613	88,211	84,417	91,638
46	92,626	90,548	94,715	93,470	91,624	95,363	87,560	83,592	91,149
47	92,208	90,018	94,407	93,091	91,141	95,087	86,867	82,721	90,626
48	91,752	89,440	94,072	92,675	90,611	94,785	86,126	81,794	90,065
49	91,256	88,810	93,709	92,220	90,030	94,457	85,330	80,801	89,460
50	90,718	88,125	93,317	91,725	89,396	94,101	84,472	79,735	88,807
51	90,135	87,381	92,894	91,187	88,705	93,716	83,548	78,590	88,102
52	89,504	86,573	92,437	90,602	87,951	93,299	82,558	77,367	87,344
53	88,822	85,699	91,944	89,967	87,131	92,847	81,504	76,069	86,534
54	88,085	84,755	91,412	89,277	86,240	92,358	80,389	74,704	85,674
55	87,290	83,738	90,839	88,529	85,273	91,828	79,216	73,276	84,765
56	86,437	82,647	90,224	87,720	84,229	91,255	77,990	71,792	83,811
57	85,521	81,477	89,563	86,847	83,103	90,636	76,709	70,249	82,808
58	84,532	80,215	88,850	85,900	81,882	89,965	75,359	68,633	81,743
59	83,458	78,846	88,076	84,868	80,551	89,235	73,921	66,926	80,597
60	82,291	77,359	87,234	83,742	79,100	88,440	72,385	65,116	79,360
61	81,022	75,747	86,317	82,515	77,523	87,573	70,734	63,191	78,012
62	79,653	74,014	85,324	81,189	75,822	86,633	68,978	61,164	76,559
63	78,196	72,172	84,265	79,772	74,005	85,626	67,164	59,081	75,048
64	76,670	70,239	83,156	78,277	72,086	84,564	65,355	57,003	73,542
65	75,087	68,228	82,005	76,714	70,074	83,452	63,593	54,972	72,080
66	73,451	66,146	80,813	75,084	67,974	82,289	61,907	53,015	70,691
67	71,753	63,989	79,566	73,380	65,784	81,062	60,271	51,114	69,343
68	69,974	61,747	78,241	71,590	63,499	79,755	58,600	49,206	67,937
69	68,087	59,404	76,806	69,695	61,112	78,344	56,777	47,201	66,335
70	66,074	56,950	75,236	67,683	58,618	76,810	54,721	45,038	64,443
71	63,935	54,392	73,527	65,556	56,027	75,150	52,411	42,702	62,233
72	61,675	51,741	71,677	63,316	53,347	73,358	49,887	40,228	59,750
73	59,291	49,002	69,672	60,953	50,578	71,414	47,213	37,668	57,059
74	56,779	46,181	67,495	58,454	47,717	69,291	44,481	35,099	54,260
75	54,142	43,289	65,138	55,813	44,770	66,973	41,765	32,581	51,432
76	51,388	40,342	62,601	53,037	41,750	64,456	39,106	30,146	48,621
77	48,532	37,360	59,894	50,141	38,681	61,749	36,515	27,803	45,841
78	45,595	34,370	57,034	47,147	35,590	58,869	33,989	25,547	43,093
79	42,601	31,399	54,040	44,081	32,510	55,837	31,523	23,373	40,378
80	39,575	28,478	50,935	40,970	29,475	52,674	29,129	21,288	37,713
81	36,545	25,641	47,741	37,842	26,519	49,400	26,837	19,311	35,138
82	33,541	22,921	44,481	34,722	23,677	46,033	24,699	17,482	32,716
83	30,592	20,355	41,177	31,636	20,982	42,588	22,789	15,856	30,538
84	27,731	17,981	37,851	28,609	18,469	39,080	21,205	14,506	28,718
85	24,990	15,839	34,527	25,666	16,172	35,521	20,067	13,524	27,394

## SECTION 5 - LIFE TABLES

Table 5-3. Expectation of Life at Single Years of Age, by Color and Sex: United States, 1976

AGE	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
0	72.8	69.0	76.7	73.5	69.7	77.3	68.3	64.1	72.6
1	72.9	69.2	76.7	73.5	69.8	77.2	69.0	64.9	73.3
2	72.0	68.3	75.8	72.5	68.9	76.3	68.1	63.9	72.3
3	71.0	67.3	74.8	71.6	67.9	75.3	67.2	63.0	71.4
4	70.1	66.4	73.9	70.6	67.0	74.4	66.2	62.1	70.5
5	69.1	65.4	72.9	69.6	66.0	73.4	65.3	61.1	69.5
6	68.1	64.4	71.9	68.7	65.0	72.4	64.3	60.2	68.5
7	67.2	63.5	70.9	67.7	64.0	71.5	63.3	59.2	67.6
8	66.2	62.5	70.0	66.7	63.1	70.5	62.4	58.2	66.6
9	65.2	61.5	69.0	65.7	62.1	69.5	61.4	57.3	65.6
10	64.2	60.5	68.0	64.8	61.1	68.5	60.4	56.3	64.6
11	63.2	59.5	67.0	63.8	60.1	67.5	59.4	55.3	63.6
12	62.3	58.6	66.0	62.8	59.1	66.5	58.4	54.3	62.6
13	61.3	57.6	65.0	61.8	58.2	65.5	57.5	53.3	61.7
14	60.3	56.6	64.1	60.8	57.2	64.6	56.5	52.4	60.7
15	59.3	55.7	63.1	59.9	56.2	63.6	55.5	51.4	59.7
16	58.4	54.7	62.1	58.9	55.3	62.6	54.6	50.5	58.7
17	57.4	53.8	61.1	58.0	54.4	61.6	53.6	49.5	57.8
18	56.5	52.9	60.2	57.0	53.4	60.7	52.7	48.6	56.8
19	55.5	51.9	59.2	56.1	52.5	59.7	51.7	47.7	55.8
20	54.6	51.0	58.2	55.1	51.6	58.7	50.8	46.8	54.9
21	53.7	50.1	57.3	54.2	50.7	57.8	49.9	45.9	53.9
22	52.7	49.2	56.3	53.3	49.8	56.8	49.0	45.0	53.0
23	51.8	48.3	55.4	52.3	48.9	55.8	48.1	44.2	52.0
24	50.9	47.4	54.4	51.4	48.0	54.9	47.2	43.3	51.1
25	50.0	46.5	53.4	50.5	47.1	53.9	46.3	42.5	50.2
26	49.0	45.6	52.5	49.5	46.1	52.9	45.4	41.6	49.2
27	48.1	44.7	51.5	48.6	45.2	52.0	44.5	40.8	48.3
28	47.1	43.8	50.5	47.6	44.3	51.0	43.6	39.9	47.3
29	46.2	42.8	49.6	46.7	43.3	50.0	42.7	39.1	46.4
30	45.3	41.9	48.6	45.7	42.4	49.1	41.8	38.2	45.5
31	44.3	41.0	47.6	44.8	41.5	48.1	41.0	37.4	44.6
32	43.4	40.1	46.7	43.8	40.5	47.1	40.1	36.6	43.6
33	42.4	39.2	45.7	42.9	39.6	46.2	39.2	35.7	42.7
34	41.5	38.2	44.8	41.9	38.7	45.2	38.3	34.9	41.8
35	40.6	37.3	43.8	41.0	37.7	44.2	37.4	34.0	40.9
36	39.6	36.4	42.9	40.0	36.8	43.3	36.6	33.2	40.0
37	38.7	35.5	41.9	39.1	35.9	42.3	35.7	32.4	39.1
38	37.8	34.6	41.0	38.2	35.0	41.4	34.8	31.6	38.2
39	36.9	33.7	40.0	37.2	34.0	40.4	34.0	30.8	37.3
40	35.9	32.8	39.1	36.3	33.1	39.5	33.1	30.0	36.4
41	35.0	31.9	38.2	35.4	32.2	38.6	32.3	29.2	35.5
42	34.1	31.0	37.3	34.5	31.3	37.6	31.5	28.4	34.6
43	33.2	30.1	36.3	33.6	30.4	36.7	30.7	27.6	33.8
44	32.4	29.2	35.4	32.7	29.5	35.8	29.9	26.8	32.9
45	31.5	28.4	34.5	31.8	28.7	34.9	29.1	26.1	32.1
46	30.6	27.5	33.6	30.9	27.8	33.9	28.3	25.3	31.3
47	29.7	26.7	32.7	30.0	26.9	33.0	27.5	24.6	30.5
48	28.9	25.9	31.8	29.1	26.1	32.1	26.7	23.9	29.6
49	28.0	25.0	31.0	28.3	25.3	31.3	26.0	23.2	28.8
50	27.2	24.2	30.1	27.4	24.4	30.4	25.3	22.5	28.0
51	26.4	23.4	29.2	26.6	23.6	29.5	24.5	21.8	27.3
52	25.6	22.6	28.4	25.8	22.8	28.6	23.8	21.1	26.5
53	24.7	21.9	27.5	24.9	22.0	27.7	23.1	20.5	25.7
54	24.0	21.1	26.7	24.1	21.3	26.9	22.4	19.8	25.0
55	23.2	20.4	25.8	23.3	20.5	26.1	21.8	19.2	24.3
56	22.4	19.6	25.0	22.5	19.7	25.2	21.1	18.6	23.5
57	21.6	18.9	24.2	21.8	19.0	24.4	20.4	18.0	22.8
58	20.9	18.2	23.4	21.0	18.3	23.6	19.8	17.4	22.1
59	20.1	17.5	22.6	20.2	17.6	22.8	19.2	16.9	21.4
60	19.4	16.8	21.8	19.5	16.9	22.0	18.6	16.3	20.7
61	18.7	16.2	21.0	18.8	16.2	21.2	18.0	15.8	20.1
62	18.0	15.5	20.3	18.1	15.6	20.4	17.4	15.3	19.5
63	17.3	14.9	19.5	17.4	14.9	19.6	16.9	14.8	18.8
64	16.7	14.3	18.8	16.7	14.3	18.9	16.3	14.3	18.2
65	16.0	13.7	18.0	16.1	13.7	18.1	15.8	13.8	17.6
66	15.4	13.1	17.3	15.4	13.1	17.4	15.2	13.3	16.9
67	14.7	12.6	16.6	14.7	12.6	16.6	14.6	12.8	16.2
68	14.1	12.0	15.8	14.1	12.0	15.9	14.0	12.3	15.6
69	13.5	11.5	15.1	13.5	11.4	15.2	13.4	11.8	14.9
70	12.9	10.9	14.4	12.9	10.9	14.4	12.9	11.3	14.3
71	12.3	10.4	13.7	12.3	10.4	13.8	12.5	10.9	13.8
72	11.7	9.9	13.1	11.7	9.9	13.1	12.1	10.6	13.4
73	11.2	9.5	12.4	11.1	9.4	12.4	11.7	10.3	13.0
74	10.6	9.0	11.8	10.6	8.9	11.8	11.4	10.0	12.7
75	10.1	8.6	11.2	10.0	8.5	11.2	11.1	9.7	12.3
76	9.6	8.2	10.7	9.5	8.1	10.6	10.9	9.5	12.0
77	9.2	7.8	10.1	9.1	7.7	10.0	10.6	9.2	11.7
78	8.7	7.4	9.6	8.6	7.3	9.5	10.4	9.0	11.4
79	8.3	7.1	9.1	8.2	7.0	9.0	10.1	8.8	11.2
80	7.9	6.8	8.7	7.8	6.6	8.5	9.9	8.6	10.9
81	7.5	6.5	8.2	7.4	6.3	8.0	9.7	8.4	10.7
82	7.2	6.2	7.8	7.0	6.0	7.6	9.5	8.2	10.4
83	6.8	5.9	7.3	6.6	5.7	7.2	9.2	8.0	10.1
84	6.4	5.6	6.9	6.3	5.4	6.8	8.9	7.7	9.7
85	6.1	5.3	6.6	5.9	5.1	6.4	8.3	7.2	9.1

## 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 1976

[Alaska and Hawaii included beginning in 1959. For decennial periods prior to 1929-31, data are for groups of registration States as follows: 1900-1902 and 1909-11, 10 States and the District of Columbia; 1919-21, 34 States and the District of Columbia. For 1900-1902 to 1929-31, figures for "All other, male" and "All other, female" 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 ( $l_x$ )								
	1976 <sup>1</sup>	1969-71 <sup>1</sup>	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
<b>WHITE, MALE</b>									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,509	97,994	97,408	96,931	95,188	93,768	91,975	87,674	86,655
5	98,229	97,671	97,015	96,403	94,150	91,738	88,842	82,972	80,864
10	98,041	97,441	96,758	96,069	93,601	90,810	87,530	81,519	79,109
15	97,831	97,208	96,503	95,728	93,089	90,074	86,546	80,549	78,037
20	97,153	96,480	95,908	95,104	92,293	88,904	84,997	79,116	76,376
25	96,270	95,524	95,106	94,294	91,241	87,371	83,061	77,047	73,907
30	95,506	94,716	94,401	93,489	90,092	85,707	80,888	74,810	71,219
35	94,724	93,843	93,589	92,543	88,713	83,812	78,441	72,108	68,245
40	93,693	92,631	92,427	91,173	86,880	81,457	75,733	68,848	64,954
45	92,061	90,725	90,533	89,002	84,285	78,345	72,696	65,115	61,369
50	89,396	87,690	87,424	85,601	80,521	74,288	69,107	60,741	57,274
55	85,273	83,001	82,463	80,496	75,156	68,981	64,574	55,622	52,491
60	79,100	75,969	75,485	73,172	67,787	61,933	58,498	48,987	46,452
65	70,074	66,343	65,834	63,541	58,305	52,964	50,663	40,862	39,245
70	58,618	54,138	53,825	51,735	46,739	41,880	40,873	31,527	30,640
75	44,770	40,324	40,207	38,104	33,404	29,471	29,205	21,585	21,387
80	29,475	25,885	25,993	24,005	19,860	17,221	17,655	12,160	12,266
85	16,172	13,527	13,065	12,015	9,013	7,572	8,154	5,145	5,252
<b>ALL OTHER, MALE</b>									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	97,414	96,592	95,301	94,911	91,696	91,268	89,499	78,065	74,674
5	97,007	96,038	94,570	93,921	89,920	88,412	85,195	68,589	64,385
10	96,741	95,716	94,234	93,453	89,211	87,311	83,768	66,377	61,730
15	96,498	95,385	93,874	92,965	88,417	86,152	82,332	64,478	59,637
20	95,769	94,293	93,108	91,941	86,770	83,621	79,057	61,426	56,733
25	94,333	92,267	91,825	90,285	84,055	79,516	74,540	57,736	53,285
30	92,509	90,106	90,270	88,327	80,865	75,083	70,344	54,073	49,867
35	90,507	87,597	88,331	85,940	77,185	70,049	65,873	49,865	46,541
40	87,915	84,378	85,744	82,832	72,830	64,710	61,353	45,414	42,989
45	84,417	80,163	82,075	78,686	67,514	58,432	56,589	40,563	39,230
50	79,735	74,748	77,239	72,891	60,766	51,748	51,880	35,427	34,766
55	73,276	67,808	70,351	65,122	52,867	44,436	46,581	29,754	29,987
60	65,116	59,396	61,669	55,535	44,370	36,790	40,506	23,750	24,194
65	54,972	49,607	51,392	45,198	35,912	29,314	34,402	17,806	19,015
70	45,038	39,025	39,914	35,018	27,688	21,741	26,923	12,295	13,829
75	32,581	27,789	29,064	25,472	19,765	14,419	18,854	7,494	8,892
80	21,288	17,999	19,994	16,904	12,352	8,239	11,615	3,894	4,831
85	13,524	10,811	11,620	9,898	6,492	3,660	5,605	1,747	2,030
<b>WHITE, FEMALE</b>									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	98,821	98,468	98,036	97,645	96,211	95,037	93,608	89,774	88,939
5	98,603	98,203	97,709	97,199	95,309	93,216	90,721	85,349	83,426
10	98,470	98,042	97,525	96,960	94,890	92,466	89,564	83,979	81,723
15	98,351	97,902	97,375	96,756	94,534	91,894	88,712	83,093	80,680
20	98,093	97,618	97,135	96,454	93,984	90,939	87,281	81,750	78,978
25	97,812	97,299	96,844	96,072	93,228	89,524	85,163	79,865	76,588
30	97,510	96,945	96,499	95,605	92,320	87,972	82,740	77,676	73,887
35	97,116	96,474	96,026	94,977	91,211	86,248	80,206	75,200	70,971
40	96,541	95,762	95,326	94,080	89,805	84,256	77,624	72,425	67,935
45	95,613	94,649	94,228	92,725	87,920	81,780	74,871	69,341	64,677
50	94,101	92,924	92,522	90,685	85,267	78,572	71,547	65,629	61,005
55	91,828	90,383	89,967	87,699	81,520	74,321	67,323	61,053	56,509
60	88,440	86,726	86,339	83,279	76,200	68,462	61,704	54,900	50,752
65	83,452	81,579	80,739	76,773	68,701	60,499	54,299	47,086	43,806
70	76,810	74,101	72,507	67,545	58,363	49,932	44,638	37,482	35,206
75	66,973	63,290	60,461	54,397	44,685	37,024	32,777	26,569	25,362
80	52,674	48,182	44,676	38,026	28,882	23,053	20,492	15,929	15,349
85	35,521	30,490	26,046	21,348	14,487	10,937	9,909	7,152	7,149
<b>ALL OTHER, FEMALE</b>									
0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1	97,826	97,235	96,172	95,913	93,318	92,796	91,251	81,493	78,525
5	97,498	96,772	95,543	95,055	91,710	90,185	87,149	72,768	68,056
10	97,324	96,546	95,265	94,679	91,092	89,201	85,607	70,508	65,111
15	97,182	96,353	95,057	94,343	90,363	88,088	83,954	68,218	62,384
20	96,904	95,917	94,660	93,544	88,505	85,078	80,154	64,764	59,053
25	96,383	95,247	94,005	92,336	85,961	81,067	75,359	61,430	55,795
30	95,711	94,370	93,070	90,799	83,147	76,816	70,633	58,281	52,773
35	94,848	93,123	91,670	88,805	79,879	72,192	65,857	54,595	49,567
40	93,614	91,247	89,676	86,052	75,908	67,271	61,130	50,568	46,146
45	91,638	88,608	86,793	82,257	71,061	61,365	56,230	45,947	42,279
50	88,807	84,964	82,979	77,007	64,886	54,920	50,780	40,886	37,681
55	84,765	80,162	77,362	70,196	57,419	47,074	44,742	35,415	33,124
60	79,360	73,984	69,941	61,758	49,102	38,761	37,954	28,908	27,524
65	72,080	66,064	60,825	52,358	40,718	30,852	31,044	22,302	21,995
70	64,443	56,375	51,274	42,612	32,579	23,341	24,107	15,871	16,140
75	51,432	44,841	40,540	32,981	24,668	16,576	17,216	10,657	11,066
80	37,713	33,373	30,315	23,712	17,157	10,822	11,151	6,324	6,708
85	27,394	22,763	19,744	15,550	10,658	6,033	5,972	3,029	3,567

<sup>1</sup>Deaths of nonresidents of the United States were excluded beginning in 1970.



## 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 1976—Con.

[See headnote at beginning of table]

AGE, COLOR, AND SEX	AVERAGE NUMBER OF YEARS OF LIFE REMAINING( $e_x$ )								
	1976 <sup>1</sup>	1969-71 <sup>1</sup>	1959-61	1949-51	1939-41	1929-31	1919-21	1909-11	1900-1902
<b>WHITE, MALE</b>									
0	69.7	67.9	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1	69.8	68.3	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5	66.0	64.5	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10	61.1	59.6	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15	56.2	54.8	54.93	54.18	52.33	50.39	49.74	46.91	46.25
20	51.6	50.2	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25	47.1	45.7	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30	42.4	41.0	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35	37.7	36.4	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40	33.1	31.8	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45	28.7	27.4	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50	24.4	23.3	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55	20.5	19.5	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60	16.9	16.0	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65	13.7	13.0	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70	10.9	10.3	10.29	10.07	9.42	9.20	9.51	8.83	9.03
75	8.5	8.0	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80	6.6	6.1	6.09	5.88	5.38	5.26	5.47	5.09	5.10
85	5.1	4.6	4.54	4.35	4.02	3.99	4.06	3.88	3.81
<b>ALL OTHER, MALE</b>									
0	64.1	60.9	61.48	58.91	52.33	47.55	47.14	34.05	32.54
1	64.9	62.1	63.50	61.06	56.05	51.08	51.63	42.53	42.46
5	61.1	58.4	59.98	57.69	53.13	48.69	50.18	44.25	45.06
10	56.3	53.6	55.19	52.96	48.54	44.27	45.99	40.65	41.90
15	51.4	48.8	50.39	48.23	43.95	39.83	41.75	36.77	38.26
20	46.8	44.3	45.78	43.73	39.74	35.95	38.36	33.46	35.11
25	42.5	40.2	41.38	39.49	35.94	32.67	35.54	30.44	32.21
30	38.2	36.2	37.05	35.31	32.25	29.45	32.51	27.33	29.25
35	34.0	32.1	32.81	31.21	28.67	26.39	29.54	24.42	26.16
40	30.0	28.2	28.72	27.29	25.23	23.36	26.53	21.57	23.12
45	26.1	24.6	24.89	23.59	22.02	20.59	23.55	18.85	20.09
50	22.5	21.2	21.28	20.25	19.18	17.92	20.47	16.21	17.34
55	19.2	18.1	18.11	17.36	16.67	15.46	17.50	13.82	14.69
60	16.3	15.3	15.29	14.91	14.38	13.15	14.74	11.67	12.62
65	13.8	12.8	12.84	12.75	12.18	10.87	12.07	9.74	10.38
70	11.3	10.6	10.81	10.74	10.06	8.78	9.58	8.00	8.33
75	9.7	8.9	8.93	8.83	8.09	6.99	7.61	6.58	6.60
80	8.6	7.5	6.87	7.07	6.46	5.42	5.83	5.53	5.12
85	7.2	6.0	5.08	5.38	5.08	4.30	4.53	4.48	4.04
<b>WHITE, FEMALE</b>									
0	77.3	75.4	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1	77.2	75.6	74.68	72.77	68.93	64.93	61.51	58.69	56.39
5	73.4	71.8	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10	68.5	66.9	66.05	64.26	60.85	57.65	55.17	53.57	52.15
15	63.6	62.0	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20	58.7	57.2	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25	53.9	52.4	51.45	49.77	46.78	44.25	42.55	40.88	40.05
30	49.1	47.6	46.63	45.00	42.21	39.99	38.72	36.96	36.42
35	44.2	42.8	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40	39.5	38.1	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45	34.9	33.5	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50	30.4	29.1	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55	26.1	24.8	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60	22.0	20.7	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65	18.1	16.9	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70	14.4	13.3	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75	11.2	10.2	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80	8.5	7.5	6.67	6.59	5.88	5.63	5.70	5.35	5.50
85	6.4	5.5	4.66	4.83	4.34	4.24	4.24	4.06	4.10
<b>ALL OTHER, FEMALE</b>									
0	72.6	69.0	66.47	62.70	55.51	49.51	46.92	37.67	35.04
1	73.3	70.0	68.10	64.37	58.47	52.33	50.39	45.15	43.54
5	69.5	66.3	64.54	60.93	55.47	49.81	48.70	46.42	46.04
10	64.6	61.4	59.72	56.17	50.83	45.33	44.54	42.84	43.02
15	59.7	56.6	54.85	51.36	46.22	40.87	40.36	39.18	39.79
20	54.9	51.8	50.07	46.77	42.14	37.22	37.15	36.14	36.89
25	50.2	47.1	45.40	42.35	38.31	33.93	34.35	32.97	33.90
30	45.5	42.6	40.83	38.02	34.52	30.67	31.48	29.61	30.70
35	40.9	38.1	36.41	33.82	30.83	27.47	28.58	26.44	27.52
40	36.4	33.8	32.16	29.82	27.31	24.30	25.60	23.34	24.37
45	32.1	29.8	28.14	26.07	24.00	21.39	22.61	20.43	21.36
50	28.0	25.9	24.31	22.67	21.04	18.60	19.76	17.65	18.67
55	24.3	22.3	20.89	19.62	18.44	16.27	17.09	14.98	15.88
60	20.7	19.0	17.83	16.95	16.14	14.22	14.69	12.78	13.60
65	17.6	15.9	15.12	14.54	13.95	12.24	12.41	10.82	11.32
70	14.3	13.3	12.46	12.29	11.81	10.38	10.25	9.22	9.62
75	12.3	11.0	10.10	10.15	9.80	8.62	8.37	7.55	7.90
80	10.9	9.0	7.66	8.15	8.00	6.90	6.58	6.05	6.48
85	9.1	7.0	5.44	6.15	6.38	5.48	5.22	5.09	5.10

<sup>1</sup>Deaths of nonresidents of the United States were excluded beginning in 1970.

## SECTION 5 - LIFE TABLES

5-15

Table 5-5. Estimated Average Length of Life in Years, by Color and Sex: Death-Registration States, 1900-1928, and United States, 1929-76

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

AREA AND YEAR	TOTAL			WHITE			ALL OTHER		
	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE
<b>UNITED STATES</b>									
1976 <sup>1</sup>	72.8	69.0	76.7	73.5	69.7	77.3	68.3	64.1	72.6
1975 <sup>1</sup>	72.5	68.7	76.5	73.2	69.4	77.2	67.9	63.6	72.3
1974 <sup>1</sup>	71.9	68.1	75.8	72.7	68.9	76.6	67.0	62.9	71.3
1973 <sup>1</sup>	71.3	67.6	75.3	72.2	68.4	76.1	65.9	61.9	70.1
1972 <sup>1,2</sup>	71.1	67.4	75.1	72.0	68.3	75.9	65.6	61.5	69.9
1971 <sup>1</sup>	71.1	67.4	75.0	72.0	68.3	75.8	65.6	61.6	69.7
1970 <sup>1</sup>	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 <sup>3</sup>	69.9	66.6	73.4	70.8	67.5	74.4	63.6	60.9	66.5
1962 <sup>3</sup>	70.0	66.8	73.4	70.9	67.6	74.4	64.1	61.5	66.8
1961	70.2	67.0	73.6	71.0	67.8	74.5	64.4	61.9	67.0
1960	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3
1959	69.9	66.8	73.2	70.7	67.5	74.2	63.9	61.3	66.5
1958	69.6	66.6	72.9	70.5	67.4	73.9	63.4	61.0	65.8
1957	69.5	66.4	72.7	70.3	67.2	73.7	63.0	60.7	65.5
1956	69.7	66.7	72.9	70.5	67.5	73.9	63.6	61.3	66.1
1955	69.6	66.7	72.8	70.5	67.4	73.7	63.7	61.4	66.1
1954	69.6	66.7	72.8	70.5	67.5	73.7	63.4	61.1	65.9
1953	68.8	66.0	72.0	69.7	66.8	73.0	62.0	59.7	64.5
1952	68.6	65.8	71.6	69.5	66.6	72.6	61.4	59.1	63.8
1951	68.4	65.6	71.4	69.3	66.5	72.4	61.2	59.2	63.4
1950	68.2	65.6	71.1	69.1	66.5	72.2	60.8	59.1	62.9
1949	68.0	65.2	70.7	68.8	66.2	71.9	60.6	58.9	62.7
1948	67.2	64.6	69.9	68.0	65.5	71.0	60.0	58.1	62.5
1947	66.8	64.4	69.7	67.6	65.2	70.5	59.7	57.9	61.9
1946	66.7	64.4	69.4	67.5	65.1	70.3	59.1	57.5	61.0
1945	65.9	63.6	67.9	66.8	64.4	69.5	57.7	56.1	59.6
1944	65.2	63.6	66.8	66.2	64.5	68.4	56.6	55.8	57.7
1943	63.3	62.4	64.4	64.2	63.2	65.7	55.6	55.4	56.1
1942	66.2	64.7	67.9	67.3	65.9	69.4	56.6	55.4	58.2
1941	64.8	63.1	66.8	66.2	64.4	68.5	53.8	52.5	55.3
1940	62.9	60.8	65.2	64.2	62.1	66.6	53.1	51.5	54.9
1939	63.7	62.1	65.4	64.9	63.3	66.6	54.5	53.2	56.0
1938	63.5	61.9	65.3	65.0	63.2	66.8	52.9	51.7	54.3
1937	60.0	58.0	62.4	61.4	59.3	63.8	50.3	48.3	52.5
1936	58.5	56.6	60.6	59.8	58.0	61.9	49.0	47.0	51.4
1935	61.7	59.9	63.9	62.9	61.0	65.0	53.1	51.3	55.2
1934	61.1	59.3	63.3	62.4	60.5	64.6	51.8	50.2	53.7
1933	63.3	61.7	65.1	64.3	62.7	66.3	54.7	53.5	56.0
1932	62.1	61.0	63.5	63.2	62.0	64.5	53.7	52.8	54.6
1931	61.1	59.4	63.1	62.6	60.8	64.7	50.4	49.5	51.5
1930	59.7	58.1	61.6	61.4	59.7	63.5	48.1	47.3	49.2
1929	57.1	55.8	58.7	58.6	57.2	60.3	46.7	45.7	47.8
<b>DEATH REGISTRATION STATES</b>									
1928	56.8	55.6	58.3	58.4	57.0	60.0	46.3	45.6	47.0
1927	60.4	59.0	62.1	62.0	60.5	63.9	48.2	47.6	48.9
1926	56.7	55.5	58.0	58.2	57.0	59.6	44.6	43.7	45.6
1925	59.0	57.6	60.6	60.7	59.3	62.4	45.7	44.9	46.7
1924	59.7	58.1	61.5	61.4	59.8	63.4	46.6	45.5	47.8
1923	57.2	56.1	58.5	58.3	57.1	59.6	48.3	47.7	48.9
1922	59.6	58.4	61.0	60.4	59.1	61.9	52.4	51.8	53.0
1921	60.8	60.0	61.8	61.8	60.8	62.9	51.5	51.6	51.3
1920	54.1	53.6	54.6	54.9	54.4	55.6	45.3	45.5	45.2
1919	54.7	53.5	56.0	55.8	54.5	57.4	44.5	44.5	44.4
1918	39.1	36.6	42.2	39.8	37.1	43.2	31.1	29.9	32.5
1917	50.9	48.4	54.0	52.0	49.3	55.3	38.8	37.0	40.8
1916	51.7	49.6	54.3	52.5	50.2	55.2	41.3	39.6	43.1
1915	54.5	52.5	56.8	55.1	53.1	57.5	38.9	37.5	40.5
1914	54.2	52.0	56.8	54.9	52.7	57.5	38.9	37.1	40.8
1913	52.5	50.3	55.0	53.0	50.8	55.7	38.4	36.7	40.3
1912	53.5	51.5	55.9	53.9	51.9	56.2	37.9	35.9	40.0
1911	52.6	50.9	54.4	53.0	51.3	54.9	36.4	34.6	38.2
1910	50.0	48.4	51.8	50.3	48.6	52.0	35.6	33.8	37.5
1909	52.1	50.5	53.8	52.5	50.9	54.2	35.7	34.2	37.3
1908	51.1	49.5	52.8	51.5	49.9	53.3	34.9	33.8	36.0
1907	47.6	45.6	49.9	48.1	46.0	50.4	32.5	31.1	34.0
1906	48.7	46.9	50.8	49.3	47.3	51.4	32.9	31.8	33.9
1905	48.7	47.3	50.2	49.1	47.6	50.6	31.3	29.6	33.1
1904	47.6	46.2	49.1	48.0	46.6	49.5	30.8	29.1	32.7
1903	50.5	49.1	52.0	50.9	49.5	52.5	33.1	31.7	34.6
1902	51.5	49.8	53.4	51.9	50.2	53.8	34.6	32.9	36.4
1901	49.1	47.6	50.6	49.4	48.0	51.0	33.7	32.2	35.3
1900	47.3	46.3	48.3	47.6	46.6	48.7	33.0	32.5	33.5

<sup>1</sup>Excludes deaths of nonresidents of the United States.<sup>2</sup>Deaths based on a 50-percent sample.<sup>3</sup>Figures by color exclude data for residents of New Jersey; see Technical Appendix.

**FILE**

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