

## U.S. Decennial Life Tables for 2009–2011, United States Life Tables

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### Abstract

**Objectives**—This report presents period life tables for the United States, based on age-specific death rates for the period 2009–2011. These tables are the most recent in a 110-year series of decennial life tables for the United States.

**Methods**—This report presents complete life tables for the United States by race, Hispanic origin, and sex, based on age-specific death rates during 2009–2011. This is the first set of life tables by Hispanic origin presented in the U.S. decennial life table series. Data used to prepare these life tables include population estimates based on the 2010 decennial census; deaths occurring in the United States to U.S. residents in the 3 years 2009 through 2011; counts of U.S. resident births in the years 2007 through 2011; and population and death counts from the Medicare program for years 2009 through 2011. The methodology used to estimate life tables for the Hispanic population is based on the method first implemented with the 2006 annual U.S. life tables by Hispanic origin. The methodology used to estimate the life tables for all other groups is based on the method first implemented with the 2008 annual U.S. life tables.

**Results**—During 2009–2011, life expectancy at birth was 78.60 years for the total U.S. population, representing an increase of 29.36 years from a life expectancy of 49.24 years in 1900. Between 1900 and 2010, life expectancy increased by 42.88 years for black females (from 35.04 to 77.92), by 39.21 years for black males (from 32.54 to 71.75), by 30.15 years for white females (from 51.08 to 81.23), and by 28.26 years for white males (from 48.23 to 76.49). During 2009–2011, Hispanic females had the highest life expectancy at birth (84.05), followed by non-Hispanic white females (81.06), Hispanic males (78.83), non-Hispanic black females (77.62), non-Hispanic white males (76.30), and non-Hispanic black males (71.41).

**Keywords:** life expectancy • survival • death rates • Hispanic origin • race • National Vital Statistics System

### Introduction

The 2009–2011 life tables presented in this report are the 12th in the decennial series of life tables for the United States that dates back to the beginning of the 20th century. The reporting of deaths at the national level began in 1900 with 10 states and the District of Columbia. As the quality of the reporting improved, states were added to the death-registration area. Beginning with 1929–1931, the decennial life tables were produced using data for the conterminous United States. Alaska and Hawaii were included beginning with the 1959–1961 decennial life tables.

Life tables by Hispanic origin are presented for the first time in the decennial life table series for the period 2009–2011. Several reasons explain why decennial life tables by Hispanic origin were not produced earlier. First, coverage of the Hispanic population in the U.S. vital statistics mortality data was incomplete until 1997. Second, evaluation studies conducted in the 1990s revealed that decedents of Hispanic origin were misclassified, leading to significant underestimation of Hispanic mortality. Lastly, age misstatement in vital and census data at ages 80 and over resulted in substantial underestimation of mortality at these ages. The solution to this problem is the use of Medicare data, which is considered to be of high quality because proof of age is required upon enrollment. However, Medicare data for groups other than the white and black populations are of poor quality and unreliable. A methodology was developed to address the latter two problems, and the first U.S. life tables by Hispanic origin were produced for the 2006 annual U.S. life tables.

Life tables for each decennial period are based on population data from the decennial census and reported deaths for the 3-year period surrounding the census year (the census year is the middle year in all but the first in the series, where deaths for 1900–1902 were used because death reports for 1899 were not collected [1]). The decennial life tables differ in one major way from the life tables prepared and published annually in *National Vital Statistics Reports*. The annual tables are based on deaths in a single year and, except for census years, on



postcensal population estimates rather than on the data from a decennial census.

There are two types of life tables—the cohort (or generation) life table and the period (or current) life table. The cohort life table provides a longitudinal perspective in that it follows the mortality experience of an actual cohort; for example, all persons born in the year 1945, from the moment of birth through consecutive ages in successive years. Based on age-specific death rates observed during consecutive years, the cohort life table reflects the mortality experience of a cohort from birth until no lives remain in the group. To prepare a single complete cohort life table requires data over many years. It is usually not feasible to construct cohort life tables entirely based on observed data for real cohorts due to data unavailability or incompleteness (2–4).

Unlike the cohort life table, the period life table does not represent the mortality experience of an actual birth cohort. Rather, the period life table presents what would happen to a hypothetical cohort if it experienced throughout its entire life the mortality conditions of a particular period in time. For example, the period life tables for 2009–2011 assume that a hypothetical birth cohort will be subject throughout its lifetime to the age-specific death rates prevailing for the actual population during 2009–2011. The period life table may be characterized as rendering a “snapshot” of current mortality experience and shows the long-range implications of a set of age-specific death rates that prevailed at a given point in time. The life tables presented in this report are period life tables based on age-specific death rates for the period 2009–2011.

This report is the first of a series of reports containing life tables for 2009–2011 and other information related to the decennial life-table program. Also included in the series are a methodological report that details the methods used to estimate the national life tables, a report on national life tables analyzed by major groups of causes of death, and a report containing life tables for individual states and the District of Columbia, including a description of the methods used to estimate individual state life tables.

## Data and Methods

The data used to prepare the U.S. decennial life tables for 2009–2011 include (1) deaths occurring in the United States to residents of the United States in the 3-year period 2009–2011 classified by age at death; (2) age-specific population estimates for census year 2010; (3) reported number of births for each of the years 2007 through 2011; and (4) single-year population and death counts for ages 66 to 100 from the Medicare program of the Centers for Medicare and Medicaid Services for the years 2009 through 2011.

The population data used to estimate the life tables shown in this report were produced under a collaborative agreement with the U.S. Census Bureau. Reflecting the 1997 Office of Management and Budget (OMB) guidelines on race and ethnicity reporting (5), the 2010 Census included an option for individuals to report more than one race and provided for the reporting of Asian persons separately from Native Hawaiian or Other Pacific Islander persons. Consequently, death certificate data by race

for states that had not implemented the 1997 OMB standards are incompatible with the population data collected in the 2010 Census (the denominators for the rates). To produce death rates for 2009–2011, it was necessary to bridge the reported population data for multiple-race persons back to single-race categories. Additionally, the 2010 Census counts were modified for consistency with the 1977 OMB race categories, that is, to report the data for Asian persons and Native Hawaiian or Other Pacific Islander persons as a combined category (Asian or Pacific Islander) (6). The procedures used to produce the bridged populations are described elsewhere (7).

Data adjustments were necessary prior to the construction of the life tables. According to standard practice, deaths for which age was not stated were allocated proportionally among the various age groups. Similarly, graduation techniques were used to eliminate irregularities arising from random variation and problems with age reporting in vital statistics and census data. Beer’s minimized fifth-difference procedure was used to interpolate single-year-of-age number of deaths and population counts from 5-year age intervals (2). Life tables for the Hispanic, non-Hispanic white, and non-Hispanic black populations are based on death rates that have been adjusted for race and ethnicity misclassification on death certificates using classification ratios (adjustment factors) (8). For the Hispanic population, death rates for the population aged 80 and over are based on statistical modeling (9). For the total, white, black, non-Hispanic white, and non-Hispanic black populations, death rates for ages 66–110 are based on blending and modeling death rates from vital statistics data (registered deaths and census population estimates) and Medicare death rates (10).

These life tables are based on a complete count of resident deaths in the United States during the 3 years 2009, 2010, and 2011. As such, they are not subject to sampling error. However, even complete counts may be considered as one of a large series of possible outcomes that could have occurred under the same circumstances. This type of variation is known as random error. Readers should note that the standard errors shown in this report reflect only this random error. Other errors, such as misreporting age on death certificates or in the census, are not reflected in these standard errors.

The probabilities of dying and the expectation of life presented in the report are “point” estimates and so, do not indicate how accurate they are. Therefore, standard errors of these two estimates are also presented. These can be used to develop confidence intervals within which the parameters are believed to lie. Standard errors of the probability of dying and of life expectancy contain six and three decimal places, respectively, and are shown in [Tables 19](#) and [20](#). In computing confidence intervals, the limits are rounded to the same number of decimal places that the variable has in the life table.

To obtain a confidence interval around a point estimate, one would add and subtract from the point estimate the product of the standard  $z$  value corresponding to the desired confidence probability and the standard error of the point estimate. For example, a 95% confidence interval for the probability that a black male will die before reaching age 60 is  $0.016506 - (1.96 \cdot 0.000169)$  and  $0.016506 + (1.96 \cdot 0.000169)$  (see

Tables 8 and 19). The resulting 95% confidence interval ranges from 0.016175 to 0.016837. Likewise, to obtain a 95% confidence interval around the life expectancy of a 59-year-old black male, one would add and subtract the product of the standard  $z$  value (1.96) and the standard error of the point estimate (0.015) (Table 20) from life expectancy at age 59 (19.86 years). The 95% confidence interval in this case ranges from 19.83 to 19.89 years. The standard errors and confidence intervals are relatively small because of the large number of deaths in the combined 3 data years 2009–2011.

## Expectation of life

The most frequently used life table statistic is life expectancy ( $e_x$ ), which is the average number of years of life remaining for persons who have attained a given age ( $x$ ). Life expectancy and other life table values for each age during the 2009–2011 period are shown for the total population by race, Hispanic origin, and sex in Tables 1–18.

Life expectancy at birth ( $e_0$ ) for the 2009–2011 period for the total population was 78.60 years. This represents the average number of years that the members of the hypothetical life table cohort can expect to live at the time of birth (Table 1).

## Survivors to specified ages

Another way of assessing the longevity of the period life table cohort is by determining the proportion that survives to specified ages. The  $l_x$  column of the life table provides the data for computing this proportion. To illustrate, 57,081 persons out of the original 2009–2011 hypothetical life table cohort of 100,000 (or 57.1%) were alive at exact age 80 (Table 1). In other words, the probability that a person will survive from birth to age 80, given 2009–2011 age-specific mortality, is 57.1%. Probabilities of survival can be calculated at any age by dividing the number of survivors at the terminal age by the number at the beginning age. For example, to calculate the probability of surviving from age 20 to age 85, one would divide the number of survivors at age 85 (41,400) by the number of survivors at age 20 (98,899), which results in a 41.9% probability of survival.

## Explanation of life table columns

**Column 1. Age ( $x$  to  $x + n$ )**—Shows the age interval between the two exact ages indicated. For instance, 7–28 days refers to the 21-day interval between the exact ages of 7 days and 28 days, and 43–44 years refers to the 1-year interval between ages 43 and 44. In the life tables in this report, the age interval is always 1 year, except in the case of subdivisions of the first year of life (Table 1).

**Column 2. Probability of dying ( ${}_nq_x$ )**—Shows the probability of dying between the beginning of an age interval and before reaching the end of that age interval. For example, for black females, the probability of dying before completing the first day of life is 0.004638 (Table 9). In other words, for every 1,000 black females born, 4.64 will die within the first day of life.

**Column 3. Number surviving ( $l_x$ )**—Shows the number of persons from the original hypothetical cohort of 100,000 live

births who survive to 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. Consequently, out of 100,000 babies born alive, 99,748 will complete the first day of life, 99,217 will reach age 10, 98,899 will reach age 20, and 41,400 will live to age 85 (Table 1).

**Column 4. Number dying ( ${}_nd_x$ )**—Shows the number dying in each successive age interval out of the original 100,000 live births. For example, out of 100,000 black females born alive, 464 will die in the first day of life, 47 between ages 20 and 21, and 31 after reaching age 109 (Table 9).

**Column 5. Person-years lived ( ${}_nL_x$ )**—Shows the number of person-years lived by the hypothetical life table cohort within an age interval  $x$  to  $x + n$ . Each figure in column 5 represents the total time lived between two indicated ages by all those reaching the earlier age. For example, the figure 98,464 for black females in the age interval 20–21 is the total number of years lived between ages 20 and 21 by the 98,488 black females (column 3) who reached age 20 out of 100,000 black females born alive (Table 9).

**Column 6. Total number of person-years lived ( $T_x$ )**—Shows the total number of person-years that would be lived after the beginning of the age interval  $x$  to  $x + n$  by the hypothetical life table cohort. For example, the figure 5,817,219 is the total number of years lived after reaching age 20 by the 98,488 black females reaching that age (Table 9).

**Column 7. Expectation of life ( $e_x$ )**—The expectation of life at any given age is the average number of years remaining to be lived by those surviving to that age, based on a given set of age-specific rates of dying. It is calculated by dividing the total person-years that would be lived beyond age  $x$  by the number of persons who survived to that age interval ( $T_x / l_x$ ). Thus, the average remaining lifetime for black females who reach age 20 is 59.07 years (5,817,219 divided by 98,488) (Table 9).

## Results

### Life expectancy in the United States

Tables 1–18 show complete life tables for the United States by race, Hispanic origin, and sex for the period 2009–2011. Life expectancy at birth for 2009–2011 represents the average number of years that a group of infants would live if the infants were to experience throughout life the age-specific death rates prevailing during 2009–2011. During this period, life expectancy at birth was 78.60 years for the total population, 76.13 for males, and 80.98 for females; 78.88 for the total white population, 76.49 for white males, and 81.23 for white females; 74.99 for the total black population, 71.75 for black males, and 77.92 for black females; 81.59 for the total Hispanic population, 78.83 for Hispanic males, and 84.05 for Hispanic females; 78.71 for the total non-Hispanic white population, 76.30 for non-Hispanic white males, and 81.06 for non-Hispanic white females; and 74.65 for the total non-Hispanic black population, 71.41 for non-Hispanic black males, and 77.62 for non-Hispanic black females (Figure 1).

A sex gap favoring females in all decennial periods since 1900–1902 has been observed (Table 21). From 1900–1902 through 1969–1971, the female advantage increased from 2.82 years to 7.60 and has been declining since. The increasing gap during these years is attributed to increases in male mortality due to ischemic heart disease and lung cancer, both of which increased largely as the result of men’s early and widespread adoption of cigarette smoking (11,12). Since 1969–1971, the gap in favor of females has narrowed from 7.60 years to 4.85 in 2009–2011, reflecting proportionately greater increases in lung cancer mortality for women than for men and proportionately larger decreases in heart disease mortality among men (11,12).

The 2009–2011 life table may be used to compare life expectancy at any age from birth onward. Based on mortality experienced during 2009–2011, a person aged 65 could expect to live an average of 19.11 more years for a total of 84.11 years; a person aged 85 could expect to live an additional 6.52 years on average, for a total of 91.52 years; and a person aged 100 could expect to live an additional 2.26 years (Table 1).

### Life expectancy by race

Life expectancy for the white population has been greater than that of the black population in every decade since 1900–1902. During 1900–1902, life expectancy at birth for the white population was 15.8 years greater than that of the black population (Table 21). As of 2009–2011, that advantage had

narrowed to 3.89 years. This is the smallest white advantage recorded to date and represents the largest decline in the advantage over a decade since the decline between 1939–1941 and 1949–1951. Among the four race–sex groups during 2009–2011, white females had the highest life expectancy at birth (81.23 years), followed by black females (77.92), white males (76.49), and black males (71.75). Between 2009–2011 and 1999–2001 (the previous decennial period), life expectancy at birth increased 3.67 years for black males, 2.80 years for black females, 1.75 years for white males, and 1.26 years for white females.

Between 1900–1902 and 2009–2011, black females and males experienced the greatest increases in life expectancy at birth (Figure 2). Over the 11 decades, life expectancy increased by 42.88 years for black females (from 35.04 to 77.92), 39.21 years for black males (from 32.54 to 71.75), 30.15 years for white females (from 51.08 to 81.23), and 28.26 years for white males (from 48.23 to 76.49).

### Survivorship in the United States

Table 22 shows trends in survivorship from 1900–1902 through 2009–2011. During the latter period, 99.4% of all infants born in the United States survived the first year of life. In contrast, only 87.6% of infants born during 1900–1902 survived the first year. Approximately 57.1% of the 2009–2011 life table cohort survived to age 80, and about 1.9% survived to age 100.

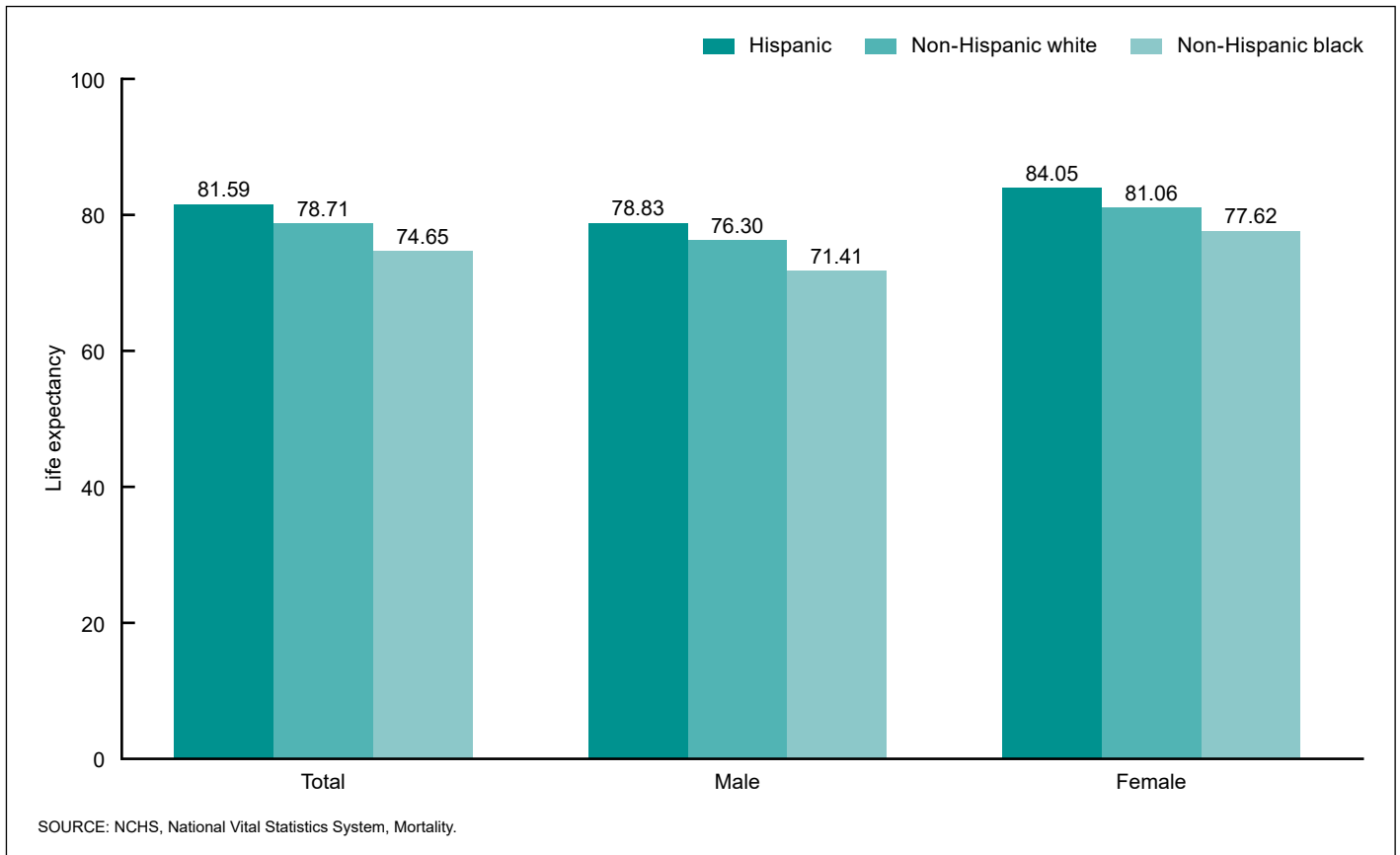
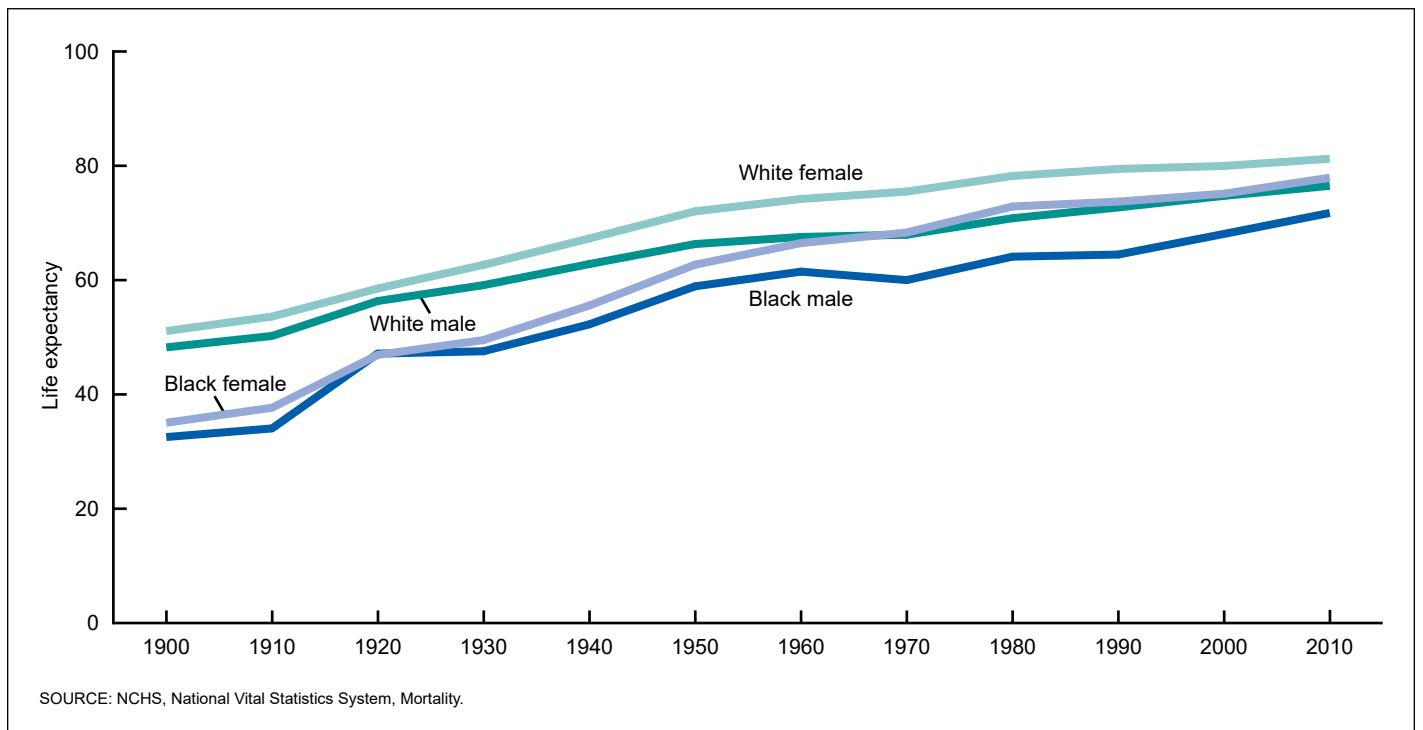


Figure 1. Life expectancy at birth, by Hispanic origin, race, and sex: United States, 2009–2011



**Figure 2. Life expectancy at birth, by race and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011**

In contrast, during 1900–1902, only 13.5% survived to age 80, and only 0.03% survived to age 100.

Plotting the percentage surviving by age for the periods 1900–1902, 1949–1951, and 2009–2011 shows an increasingly rectangular survival curve (Figure 3). That is, the survival curve has become increasingly flat in response to progressively lower mortality, particularly at the younger ages, and increasingly vertical at the older ages. The survival curve for 1900–1902 shows a rapid decline in survival in the first few years of life and a relatively steady decline afterwards. In contrast, the survival curve for 2009–2011 is nearly flat until about age 50, after which the decline in survival becomes more rapid. Improvements in survival between 1900–1902 and 1949–1951 occurred at all ages, although the largest improvements were among the younger population. Between 1949–1951 and 2009–2011, improvements occurred primarily for the older population.

### Survivorship by race

During 1900–1902, race differences in survival were considerable (Figure 4). Black male and female survival at all ages was substantially lower than white male and female survival. The median age at death for the white population was approximately 60 years compared with slightly over 30 years for the black population. In other words, while one-half of the white population could expect to reach age 60, one-half of the black population died by about age 30. The differences in survival are particularly noticeable at age 10. For the white population, survival was about 80%. In contrast, around 60% of the black population reached age 10. A closer look at survival between ages 0 and 10 years for 1900–1902 shows that nearly 25% of

the black population died in their first year of life compared with about 12% of the white population (13).

By 2009–2011, black survival was still lower overall than white survival (Figure 5). However, the clear separation between the sex-specific survival curves for the white and black populations shown in Figure 4 was no longer apparent. Figure 5 shows that while black male survival still lags behind the other race-sex groups, black female survival exceeds white male survival beginning at age 55. A major reason for improved black survival over the past 110 years is substantially decreased mortality at younger ages. By 2009–2011, black survival at age 10 improved from approximately 60% during 1900–1902 to 98.6%, which was 0.7% lower than survival for the white population at age 10. During this period, survival increased for the white population as well, but the rate of change was greater for the black population.

### Survivorship by Hispanic origin

During 2009–2011, 99.5% of Hispanic and non-Hispanic white infants survived the first year of life compared with 98.8% of non-Hispanic black infants (Table 22). Also, 99.1% and 99.0% of the Hispanic and non-Hispanic white populations, respectively, survived to age 20 compared with 98.1% of the non-Hispanic black population. By age 65, the Hispanic population had a distinct survival advantage compared with the other two populations. Overall, 87.7% of the Hispanic population survived to age 65 compared with 84.5% of the non-Hispanic white and 76.5% of the non-Hispanic black populations. The Hispanic survival advantage increases with age so that by age 85, 50.7% of the Hispanic population has survived compared with 41.5%

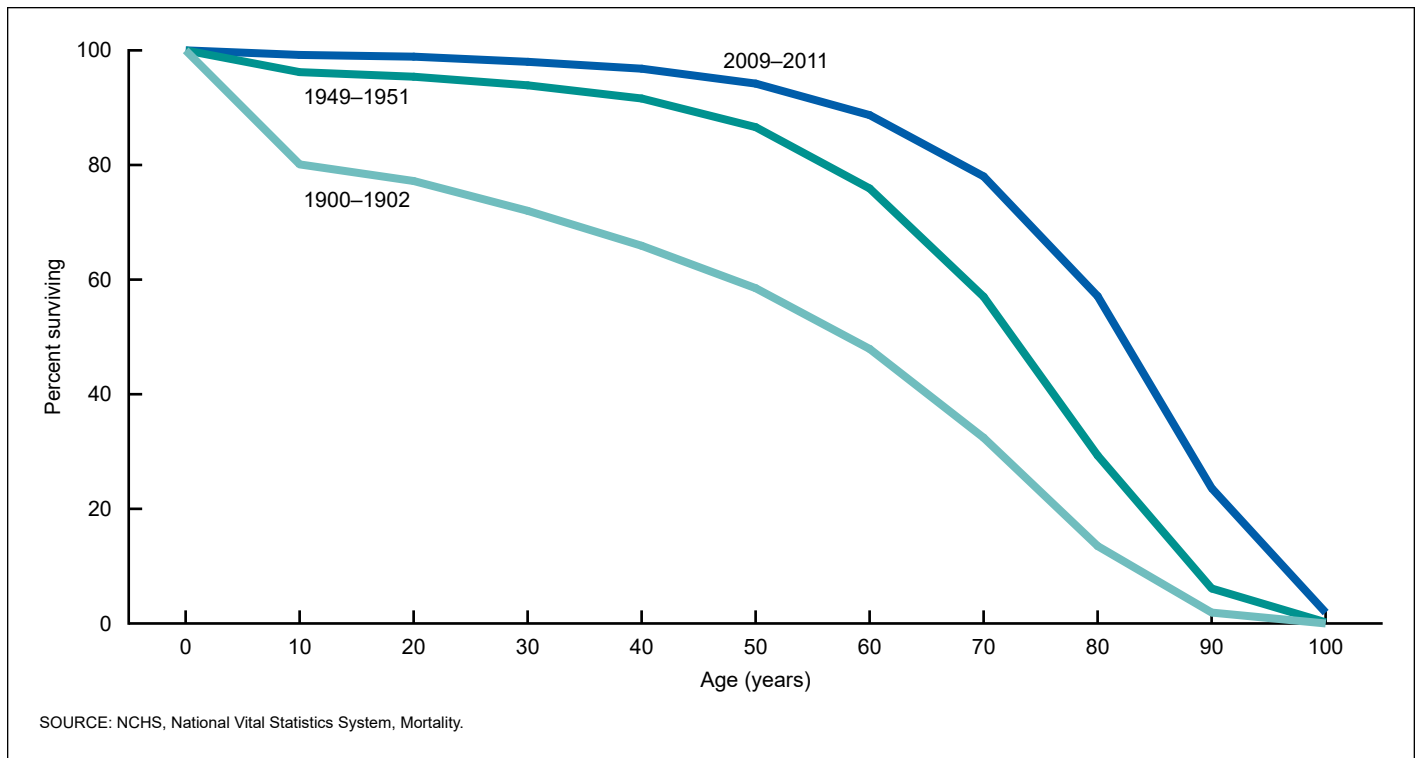


Figure 3. Percent surviving, by age: Death-registration states, 1900-1902, and United States, 1949-1951 and 2009-2011

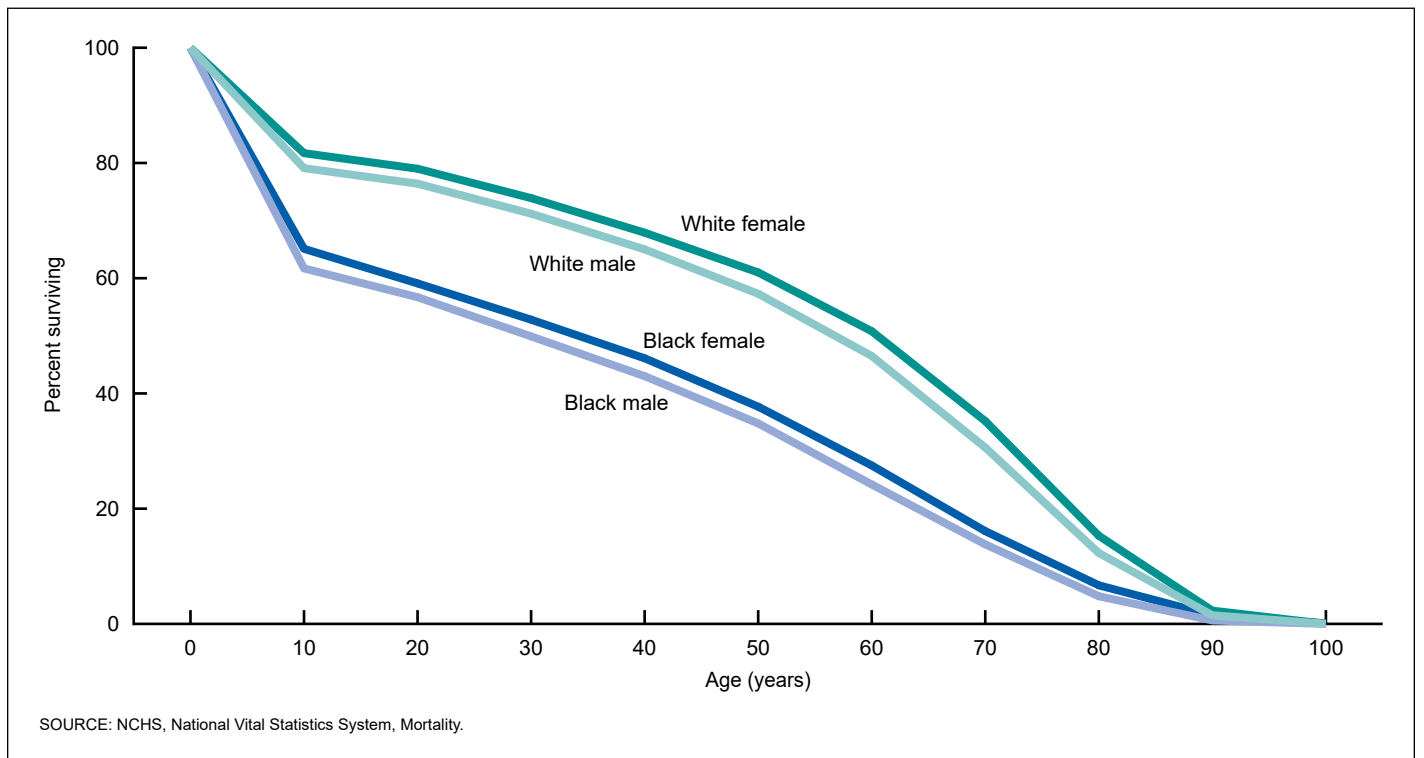
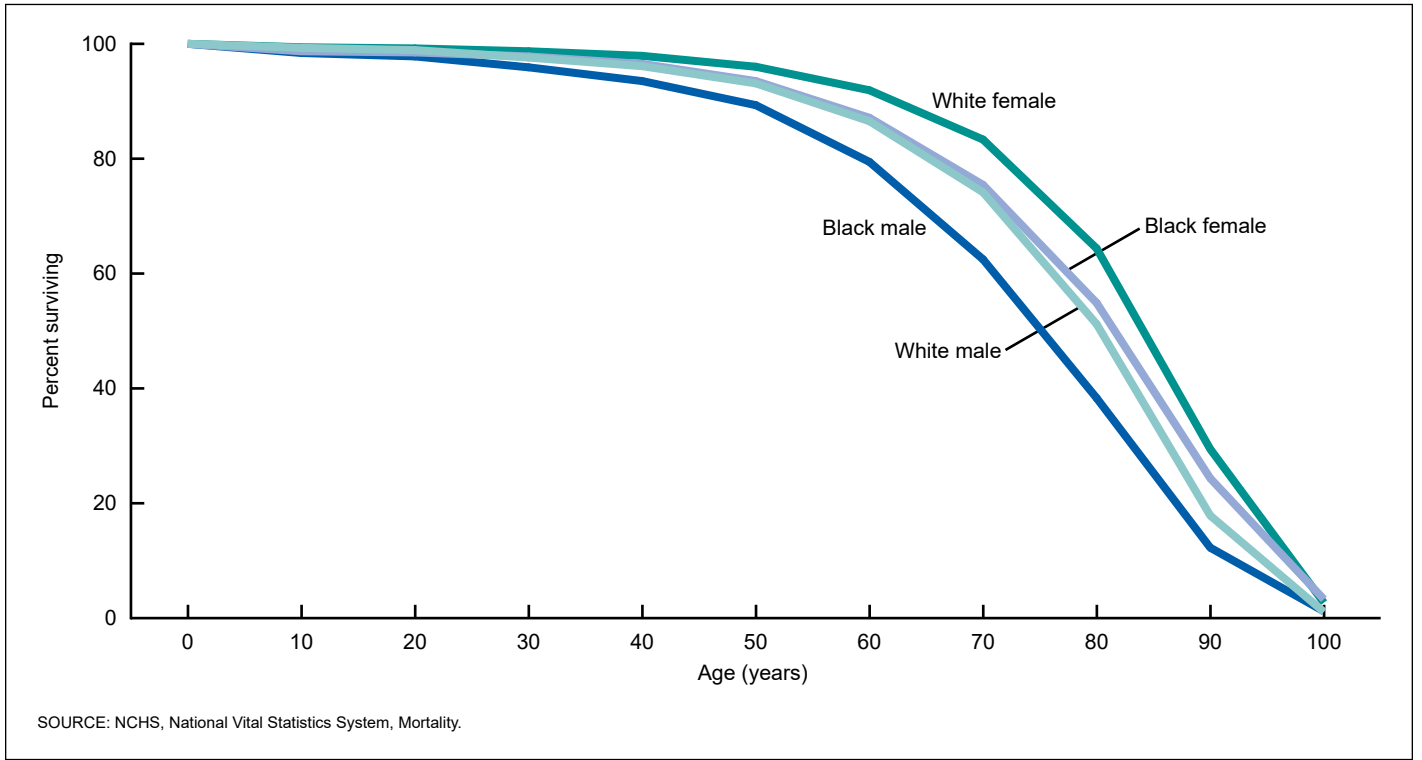
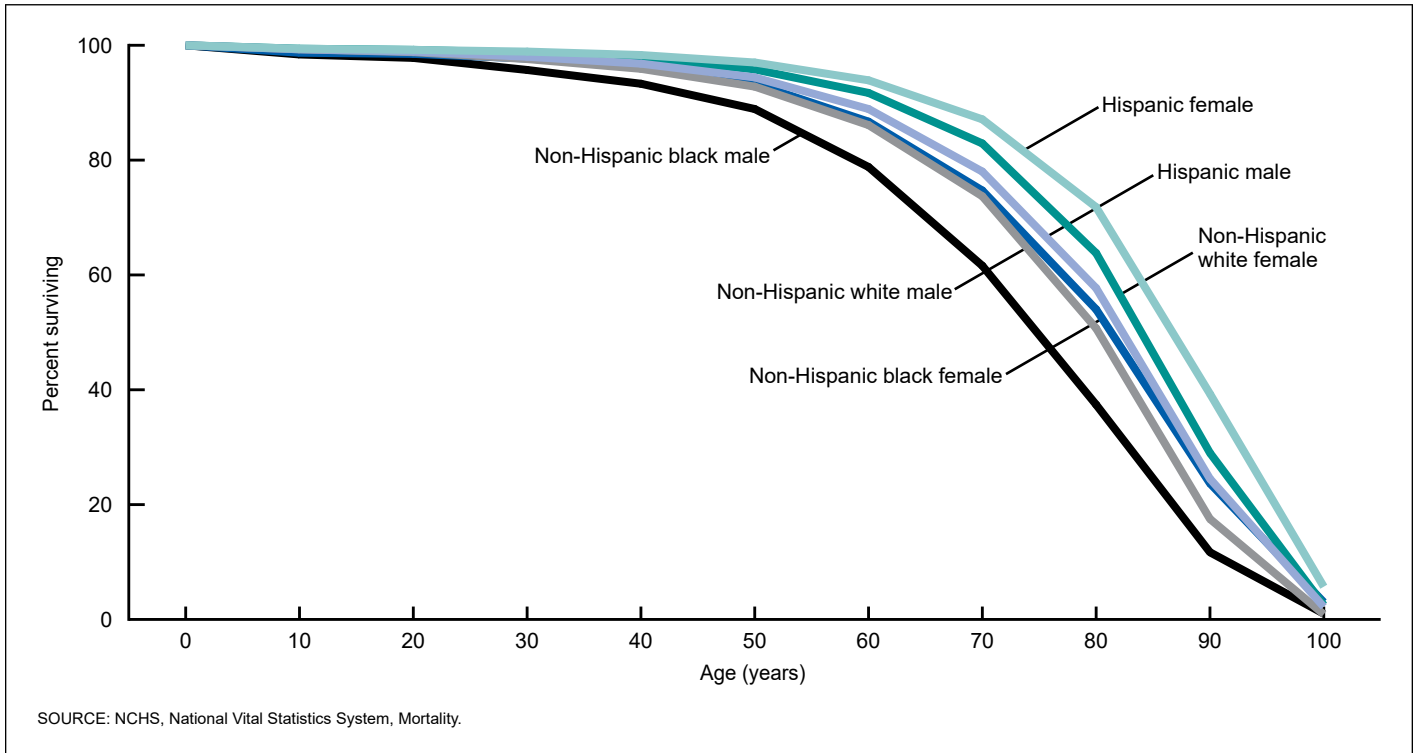


Figure 4. Percent surviving, by race, sex, and age: Death-registration states, 1900-1902



**Figure 5. Percent surviving, by race, sex, and age: United States, 2009–2011**



**Figure 6. Percent surviving, by Hispanic origin, race, sex, and age: United States, 2009–2011**

of the non-Hispanic white and 32.1% of the non-Hispanic black populations.

Among the six Hispanic-origin race-sex groups, Hispanic females had the highest median age at death, with 51.1% surviving to age 87 (Figure 6). The group with the next highest median age at death was non-Hispanic white females, with 51.7% surviving to age 84. Hispanic males had 48.8% surviving to age 83; followed by non-Hispanic black females, with 51.3% surviving to age 81; non-Hispanic white males, with 50.7% surviving to age 80; and non-Hispanic black males, with 50.3% surviving to age 75.

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**Table 1. Life table for the total population: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table01.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table01.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002520	100,000	252	274	7,859,734	78.60
1–7.....	0.000758	99,748	76	1,639	7,859,460	78.79
7–28.....	0.000821	99,672	82	5,732	7,857,821	78.84
28–365.....	0.002092	99,591	208	91,855	7,852,088	78.84
Years						
0–1.....	0.006190	100,000	618	99,500	7,859,734	78.60
1–2.....	0.000414	99,382	41	99,362	7,760,234	78.08
2–3.....	0.000275	99,341	27	99,327	7,660,872	77.12
3–4.....	0.000212	99,314	21	99,303	7,561,545	76.14
4–5.....	0.000164	99,293	16	99,285	7,462,241	75.15
5–6.....	0.000150	99,276	15	99,269	7,362,957	74.17
6–7.....	0.000133	99,262	13	99,255	7,263,688	73.18
7–8.....	0.000119	99,248	12	99,242	7,164,433	72.19
8–9.....	0.000105	99,237	10	99,231	7,065,191	71.20
9–10.....	0.000091	99,226	9	99,222	6,965,959	70.20
10–11.....	0.000083	99,217	8	99,213	6,866,738	69.21
11–12.....	0.000089	99,209	9	99,204	6,767,525	68.21
12–13.....	0.000119	99,200	12	99,194	6,668,320	67.22
13–14.....	0.000177	99,188	18	99,179	6,569,126	66.23
14–15.....	0.000255	99,171	25	99,158	6,469,947	65.24
15–16.....	0.000337	99,145	33	99,129	6,370,789	64.26
16–17.....	0.000416	99,112	41	99,091	6,271,660	63.28
17–18.....	0.000497	99,071	49	99,046	6,172,569	62.30
18–19.....	0.000579	99,022	57	98,993	6,073,523	61.34
19–20.....	0.000662	98,964	66	98,931	5,974,530	60.37
20–21.....	0.000752	98,899	74	98,861	5,875,599	59.41
21–22.....	0.000839	98,824	83	98,783	5,776,737	58.45
22–23.....	0.000903	98,741	89	98,697	5,677,954	57.50
23–24.....	0.000936	98,652	92	98,606	5,579,258	56.55
24–25.....	0.000944	98,560	93	98,513	5,480,652	55.61
25–26.....	0.000945	98,467	93	98,420	5,382,138	54.66
26–27.....	0.000952	98,374	94	98,327	5,283,718	53.71
27–28.....	0.000962	98,280	95	98,233	5,185,391	52.76
28–29.....	0.000982	98,186	96	98,137	5,087,158	51.81
29–30.....	0.001011	98,089	99	98,039	4,989,021	50.86
30–31.....	0.001045	97,990	102	97,939	4,890,982	49.91
31–32.....	0.001082	97,887	106	97,835	4,793,043	48.96
32–33.....	0.001119	97,782	109	97,727	4,695,208	48.02
33–34.....	0.001156	97,672	113	97,616	4,597,482	47.07
34–35.....	0.001196	97,559	117	97,501	4,499,866	46.12
35–36.....	0.001246	97,443	121	97,382	4,402,365	45.18
36–37.....	0.001310	97,321	127	97,257	4,304,983	44.23
37–38.....	0.001387	97,194	135	97,126	4,207,726	43.29
38–39.....	0.001479	97,059	144	96,987	4,110,599	42.35
39–40.....	0.001589	96,915	154	96,838	4,013,612	41.41
40–41.....	0.001712	96,761	166	96,678	3,916,774	40.48
41–42.....	0.001855	96,596	179	96,506	3,820,096	39.55
42–43.....	0.002030	96,416	196	96,318	3,723,590	38.62
43–44.....	0.002237	96,221	215	96,113	3,627,271	37.70
44–45.....	0.002467	96,005	237	95,887	3,531,158	36.78
45–46.....	0.002700	95,769	259	95,639	3,435,271	35.87
46–47.....	0.002941	95,510	281	95,370	3,339,632	34.97
47–48.....	0.003209	95,229	306	95,076	3,244,263	34.07
48–49.....	0.003514	94,923	334	94,757	3,149,186	33.18
49–50.....	0.003852	94,590	364	94,408	3,054,430	32.29
50–51.....	0.004215	94,226	397	94,027	2,960,022	31.41
51–52.....	0.004586	93,828	430	93,613	2,865,995	30.55
52–53.....	0.004963	93,398	463	93,166	2,772,382	29.68

**Table 1. Life table for the total population: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table01.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table01.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.005342	92,935	496	92,686	2,679,216	28.83
54–55	0.005735	92,438	530	92,173	2,586,529	27.98
55–56	0.006158	91,908	566	91,625	2,494,356	27.14
56–57	0.006621	91,342	605	91,040	2,402,731	26.30
57–58	0.007122	90,737	646	90,414	2,311,692	25.48
58–59	0.007658	90,091	690	89,746	2,221,278	24.66
59–60	0.008223	89,401	735	89,034	2,131,532	23.84
60–61	0.008823	88,666	782	88,275	2,042,498	23.04
61–62	0.009465	87,884	832	87,468	1,954,223	22.24
62–63	0.010155	87,052	884	86,610	1,866,755	21.44
63–64	0.010922	86,168	941	85,697	1,780,146	20.66
64–65	0.011794	85,227	1,005	84,724	1,694,448	19.88
65–66	0.012814	84,222	1,079	83,682	1,609,724	19.11
66–67	0.014001	83,142	1,164	82,560	1,526,042	18.35
67–68	0.015241	81,978	1,249	81,354	1,443,482	17.61
68–69	0.016610	80,729	1,341	80,058	1,362,128	16.87
69–70	0.018018	79,388	1,430	78,673	1,282,070	16.15
70–71	0.019596	77,958	1,528	77,194	1,203,397	15.44
71–72	0.021356	76,430	1,632	75,614	1,126,203	14.74
72–73	0.023374	74,798	1,748	73,923	1,050,590	14.05
73–74	0.025623	73,049	1,872	72,113	976,666	13.37
74–75	0.028137	71,178	2,003	70,176	904,553	12.71
75–76	0.030795	69,175	2,130	68,110	834,377	12.06
76–77	0.033868	67,045	2,271	65,909	766,267	11.43
77–78	0.037174	64,774	2,408	63,570	700,358	10.81
78–79	0.041217	62,366	2,571	61,081	636,788	10.21
79–80	0.045399	59,796	2,715	58,438	575,707	9.63
80–81	0.050229	57,081	2,867	55,647	517,269	9.06
81–82	0.055492	54,214	3,008	52,709	461,621	8.51
82–83	0.061427	51,205	3,145	49,633	408,912	7.99
83–84	0.067653	48,060	3,251	46,434	359,279	7.48
84–85	0.076073	44,809	3,409	43,104	312,845	6.98
85–86	0.084651	41,400	3,505	39,648	269,741	6.52
86–87	0.094504	37,895	3,581	36,105	230,093	6.07
87–88	0.105297	34,314	3,613	32,507	193,989	5.65
88–89	0.117070	30,701	3,594	28,904	161,481	5.26
89–90	0.129855	27,107	3,520	25,347	132,578	4.89
90–91	0.143671	23,587	3,389	21,892	107,231	4.55
91–92	0.158523	20,198	3,202	18,597	85,339	4.23
92–93	0.174398	16,996	2,964	15,514	66,741	3.93
93–94	0.191265	14,032	2,684	12,690	51,227	3.65
94–95	0.209070	11,348	2,373	10,162	38,537	3.40
95–96	0.227738	8,976	2,044	7,954	28,375	3.16
96–97	0.247174	6,932	1,713	6,075	20,422	2.95
97–98	0.267257	5,218	1,395	4,521	14,347	2.75
98–99	0.287853	3,824	1,101	3,273	9,826	2.57
99–100	0.308809	2,723	841	2,303	6,552	2.41
100–101	0.329962	1,882	621	1,572	4,250	2.26
101–102	0.351142	1,261	443	1,040	2,678	2.12
102–103	0.372179	818	305	666	1,639	2.00
103–104	0.392906	514	202	413	973	1.89
104–105	0.413169	312	129	247	560	1.80
105–106	0.432824	183	79	143	312	1.71
106–107	0.451748	104	47	80	169	1.63
107–108	0.469837	57	27	44	89	1.56
108–109	0.487009	30	15	23	45	1.49
109–110	0.503204	15	8	12	22	1.44

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 2. Life table for males: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table02.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table02.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1	0.002721	100,000	272	274	7,613,148	76.13
1–7	0.000831	99,728	83	1,639	7,612,874	76.34
7–28	0.000876	99,645	87	5,730	7,611,235	76.38
28–365	0.002323	99,558	231	91,814	7,605,505	76.39
Years						
0–1	0.006752	100,000	674	99,457	7,613,148	76.13
1–2	0.000442	99,326	44	99,304	7,513,691	75.65
2–3	0.000314	99,282	31	99,267	7,414,387	74.68
3–4	0.000243	99,251	24	99,239	7,315,120	73.70
4–5	0.000181	99,227	18	99,218	7,215,881	72.72
5–6	0.000168	99,209	17	99,201	7,116,662	71.73
6–7	0.000150	99,193	15	99,185	7,017,462	70.75
7–8	0.000133	99,178	13	99,171	6,918,276	69.76
8–9	0.000114	99,164	11	99,159	6,819,105	68.77
9–10	0.000093	99,153	9	99,149	6,719,947	67.77
10–11	0.000079	99,144	8	99,140	6,620,798	66.78
11–12	0.000086	99,136	8	99,132	6,521,658	65.78
12–13	0.000128	99,128	13	99,121	6,422,526	64.79
13–14	0.000215	99,115	21	99,104	6,323,405	63.80
14–15	0.000332	99,094	33	99,077	6,224,301	62.81
15–16	0.000453	99,061	45	99,038	6,125,224	61.83
16–17	0.000568	99,016	56	98,988	6,026,186	60.86
17–18	0.000690	98,960	68	98,925	5,927,198	59.90
18–19	0.000819	98,891	81	98,851	5,828,273	58.94
19–20	0.000952	98,810	94	98,763	5,729,422	57.98
20–21	0.001097	98,716	108	98,662	5,630,659	57.04
21–22	0.001233	98,608	122	98,547	5,531,996	56.10
22–23	0.001332	98,486	131	98,421	5,433,449	55.17
23–24	0.001375	98,355	135	98,288	5,335,029	54.24
24–25	0.001376	98,220	135	98,152	5,236,741	53.32
25–26	0.001363	98,085	134	98,018	5,138,589	52.39
26–27	0.001357	97,951	133	97,885	5,040,571	51.46
27–28	0.001357	97,818	133	97,752	4,942,686	50.53
28–29	0.001371	97,685	134	97,619	4,844,934	49.60
29–30	0.001396	97,552	136	97,483	4,747,316	48.66
30–31	0.001428	97,415	139	97,346	4,649,832	47.73
31–32	0.001459	97,276	142	97,205	4,552,486	46.80
32–33	0.001492	97,134	145	97,062	4,455,281	45.87
33–34	0.001524	96,990	148	96,916	4,358,219	44.93
34–35	0.001562	96,842	151	96,766	4,261,303	44.00
35–36	0.001612	96,690	156	96,612	4,164,537	43.07
36–37	0.001680	96,535	162	96,453	4,067,925	42.14
37–38	0.001764	96,372	170	96,287	3,971,471	41.21
38–39	0.001865	96,202	179	96,113	3,875,184	40.28
39–40	0.001988	96,023	191	95,928	3,779,071	39.36
40–41	0.002128	95,832	204	95,730	3,683,144	38.43
41–42	0.002293	95,628	219	95,518	3,587,414	37.51
42–43	0.002499	95,409	238	95,290	3,491,895	36.60
43–44	0.002747	95,170	261	95,040	3,396,606	35.69
44–45	0.003027	94,909	287	94,765	3,301,566	34.79
45–46	0.003315	94,622	314	94,465	3,206,800	33.89
46–47	0.003615	94,308	341	94,138	3,112,336	33.00
47–48	0.003951	93,967	371	93,781	3,018,198	32.12
48–49	0.004336	93,596	406	93,393	2,924,417	31.25
49–50	0.004766	93,190	444	92,968	2,831,024	30.38
50–51	0.005224	92,746	485	92,504	2,738,056	29.52
51–52	0.005694	92,261	525	91,999	2,645,552	28.67
52–53	0.006185	91,736	567	91,452	2,553,554	27.84

**Table 2. Life table for males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table02.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table02.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.006699	91,169	611	90,863	2,462,101	27.01
54–55	0.007245	90,558	656	90,230	2,371,238	26.18
55–56	0.007838	89,902	705	89,549	2,281,008	25.37
56–57	0.008477	89,197	756	88,819	2,191,459	24.57
57–58	0.009136	88,441	808	88,037	2,102,640	23.77
58–59	0.009792	87,633	858	87,204	2,014,603	22.99
59–60	0.010447	86,775	907	86,322	1,927,399	22.21
60–61	0.011127	85,868	955	85,391	1,841,077	21.44
61–62	0.011858	84,913	1,007	84,409	1,755,687	20.68
62–63	0.012649	83,906	1,061	83,375	1,671,277	19.92
63–64	0.013545	82,845	1,122	82,284	1,587,902	19.17
64–65	0.014578	81,723	1,191	81,127	1,505,618	18.42
65–66	0.015783	80,531	1,271	79,896	1,424,491	17.69
66–67	0.017174	79,260	1,361	78,580	1,344,595	16.96
67–68	0.018664	77,899	1,454	77,172	1,266,016	16.25
68–69	0.020251	76,445	1,548	75,671	1,188,844	15.55
69–70	0.021915	74,897	1,641	74,076	1,113,173	14.86
70–71	0.023769	73,256	1,741	72,385	1,039,096	14.18
71–72	0.025821	71,514	1,847	70,591	966,711	13.52
72–73	0.028227	69,668	1,967	68,685	896,120	12.86
73–74	0.030875	67,701	2,090	66,656	827,435	12.22
74–75	0.033841	65,611	2,220	64,501	760,779	11.60
75–76	0.037006	63,391	2,346	62,218	696,278	10.98
76–77	0.040519	61,045	2,473	59,808	634,061	10.39
77–78	0.044535	58,571	2,608	57,267	574,253	9.80
78–79	0.049282	55,963	2,758	54,584	516,985	9.24
79–80	0.054248	53,205	2,886	51,762	462,402	8.69
80–81	0.060247	50,319	3,032	48,803	410,640	8.16
81–82	0.066518	47,287	3,145	45,714	361,837	7.65
82–83	0.073596	44,142	3,249	42,517	316,123	7.16
83–84	0.081103	40,893	3,317	39,235	273,605	6.69
84–85	0.090083	37,576	3,385	35,884	234,371	6.24
85–86	0.101373	34,191	3,466	32,458	198,487	5.81
86–87	0.112746	30,725	3,464	28,993	166,028	5.40
87–88	0.125112	27,261	3,411	25,556	137,035	5.03
88–89	0.138495	23,850	3,303	22,199	111,479	4.67
89–90	0.152905	20,547	3,142	18,976	89,280	4.35
90–91	0.168337	17,406	2,930	15,941	70,304	4.04
91–92	0.184767	14,476	2,675	13,138	54,363	3.76
92–93	0.202149	11,801	2,386	10,608	41,225	3.49
93–94	0.220419	9,415	2,075	8,378	30,617	3.25
94–95	0.239489	7,340	1,758	6,461	22,239	3.03
95–96	0.259250	5,582	1,447	4,859	15,778	2.83
96–97	0.279574	4,135	1,156	3,557	10,919	2.64
97–98	0.300317	2,979	895	2,532	7,362	2.47
98–99	0.321322	2,084	670	1,749	4,831	2.32
99–100	0.342423	1,415	484	1,172	3,081	2.18
100–101	0.363451	930	338	761	1,909	2.05
101–102	0.384240	592	228	478	1,148	1.94
102–103	0.404631	365	148	291	669	1.84
103–104	0.424479	217	92	171	379	1.74
104–105	0.443651	125	55	97	208	1.66
105–106	0.462037	70	32	53	110	1.59
106–107	0.479547	37	18	28	57	1.52
107–108	0.496112	19	10	15	28	1.46
108–109	0.511684	10	5	7	14	1.41
109–110	0.526237	5	3	4	7	1.36

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 3. Life table for females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table03.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table03.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002309	100,000	231	274	8,097,700	80.98
1–7.....	0.000681	99,769	68	1,639	8,097,426	81.16
7–28.....	0.000762	99,701	76	5,734	8,095,786	81.20
28–365.....	0.001850	99,625	184	91,898	8,090,052	81.20
Years						
0–1.....	0.005602	100,000	559	99,545	8,097,700	80.98
1–2.....	0.000384	99,441	38	99,422	7,998,155	80.43
2–3.....	0.000235	99,403	23	99,391	7,898,733	79.46
3–4.....	0.000180	99,379	18	99,370	7,799,342	78.48
4–5.....	0.000146	99,361	15	99,354	7,699,972	77.49
5–6.....	0.000131	99,347	13	99,340	7,600,617	76.51
6–7.....	0.000116	99,334	11	99,328	7,501,277	75.52
7–8.....	0.000104	99,322	10	99,317	7,401,949	74.52
8–9.....	0.000096	99,312	9	99,307	7,302,632	73.53
9–10.....	0.000089	99,303	9	99,298	7,203,325	72.54
10–11.....	0.000087	99,294	9	99,289	7,104,026	71.55
11–12.....	0.000092	99,285	9	99,280	7,004,737	70.55
12–13.....	0.000109	99,276	11	99,270	6,905,457	69.56
13–14.....	0.000137	99,265	14	99,258	6,806,186	68.57
14–15.....	0.000175	99,251	17	99,243	6,706,928	67.58
15–16.....	0.000216	99,234	21	99,223	6,607,685	66.59
16–17.....	0.000255	99,213	25	99,200	6,508,462	65.60
17–18.....	0.000293	99,187	29	99,173	6,409,262	64.62
18–19.....	0.000326	99,158	32	99,142	6,310,089	63.64
19–20.....	0.000358	99,126	35	99,108	6,210,947	62.66
20–21.....	0.000391	99,090	39	99,071	6,111,839	61.68
21–22.....	0.000425	99,052	42	99,031	6,012,768	60.70
22–23.....	0.000456	99,010	45	98,987	5,913,737	59.73
23–24.....	0.000479	98,964	47	98,941	5,814,750	58.76
24–25.....	0.000498	98,917	49	98,892	5,715,809	57.78
25–26.....	0.000517	98,868	51	98,842	5,616,917	56.81
26–27.....	0.000538	98,817	53	98,790	5,518,074	55.84
27–28.....	0.000562	98,763	55	98,736	5,419,284	54.87
28–29.....	0.000590	98,708	58	98,679	5,320,549	53.90
29–30.....	0.000622	98,650	61	98,619	5,221,870	52.93
30–31.....	0.000660	98,588	65	98,556	5,123,251	51.97
31–32.....	0.000702	98,523	69	98,489	5,024,695	51.00
32–33.....	0.000746	98,454	73	98,417	4,926,206	50.04
33–34.....	0.000788	98,381	77	98,342	4,827,789	49.07
34–35.....	0.000831	98,303	82	98,262	4,729,447	48.11
35–36.....	0.000882	98,222	87	98,178	4,631,184	47.15
36–37.....	0.000943	98,135	93	98,089	4,533,006	46.19
37–38.....	0.001014	98,042	99	97,993	4,434,917	45.23
38–39.....	0.001098	97,943	108	97,889	4,336,924	44.28
39–40.....	0.001195	97,835	117	97,777	4,239,035	43.33
40–41.....	0.001300	97,719	127	97,655	4,141,258	42.38
41–42.....	0.001421	97,592	139	97,522	4,043,603	41.43
42–43.....	0.001564	97,453	152	97,377	3,946,081	40.49
43–44.....	0.001731	97,300	168	97,216	3,848,704	39.55
44–45.....	0.001914	97,132	186	97,039	3,751,488	38.62
45–46.....	0.002097	96,946	203	96,844	3,654,449	37.70
46–47.....	0.002283	96,743	221	96,632	3,557,604	36.77
47–48.....	0.002486	96,522	240	96,402	3,460,972	35.86
48–49.....	0.002714	96,282	261	96,151	3,364,570	34.94
49–50.....	0.002965	96,021	285	95,878	3,268,419	34.04
50–51.....	0.003237	95,736	310	95,581	3,172,540	33.14
51–52.....	0.003515	95,426	335	95,258	3,076,959	32.24

**Table 3. Life table for females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table03.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table03.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
52–53.....	0.003784	95,091	360	94,911	2,981,701	31.36
53–54.....	0.004039	94,731	383	94,540	2,886,790	30.47
54–55.....	0.004293	94,348	405	94,146	2,792,251	29.60
55–56.....	0.004562	93,943	429	93,729	2,698,105	28.72
56–57.....	0.004869	93,515	455	93,287	2,604,376	27.85
57–58.....	0.005231	93,059	487	92,816	2,511,089	26.98
58–59.....	0.005660	92,572	524	92,310	2,418,273	26.12
59–60.....	0.006144	92,049	566	91,766	2,325,963	25.27
60–61.....	0.006674	91,483	611	91,178	2,234,197	24.42
61–62.....	0.007237	90,872	658	90,544	2,143,019	23.58
62–63.....	0.007841	90,215	707	89,861	2,052,476	22.75
63–64.....	0.008501	89,507	761	89,127	1,962,615	21.93
64–65.....	0.009245	88,746	820	88,336	1,873,488	21.11
65–66.....	0.010120	87,926	890	87,481	1,785,152	20.30
66–67.....	0.011134	87,036	969	86,552	1,697,670	19.51
67–68.....	0.012225	86,067	1,052	85,541	1,611,119	18.72
68–69.....	0.013358	85,015	1,136	84,447	1,525,578	17.94
69–70.....	0.014581	83,879	1,223	83,268	1,441,131	17.18
70–71.....	0.015955	82,656	1,319	81,997	1,357,863	16.43
71–72.....	0.017511	81,337	1,424	80,625	1,275,866	15.69
72–73.....	0.019271	79,913	1,540	79,143	1,195,241	14.96
73–74.....	0.021219	78,373	1,663	77,542	1,116,097	14.24
74–75.....	0.023444	76,710	1,798	75,811	1,038,556	13.54
75–76.....	0.025774	74,912	1,931	73,946	962,745	12.85
76–77.....	0.028373	72,981	2,071	71,946	888,798	12.18
77–78.....	0.031477	70,910	2,232	69,794	816,853	11.52
78–79.....	0.034991	68,678	2,403	67,477	747,058	10.88
79–80.....	0.038857	66,275	2,575	64,988	679,582	10.25
80–81.....	0.043075	63,700	2,744	62,328	614,594	9.65
81–82.....	0.047719	60,956	2,909	59,502	552,266	9.06
82–83.....	0.053222	58,047	3,089	56,503	492,765	8.49
83–84.....	0.059453	54,958	3,267	53,324	436,262	7.94
84–85.....	0.066886	51,690	3,457	49,962	382,938	7.41
85–86.....	0.075065	48,233	3,621	46,423	332,976	6.90
86–87.....	0.084449	44,613	3,768	42,729	286,553	6.42
87–88.....	0.094819	40,845	3,873	38,909	243,824	5.97
88–89.....	0.106230	36,972	3,928	35,008	204,916	5.54
89–90.....	0.118730	33,045	3,923	31,083	169,908	5.14
90–91.....	0.132352	29,121	3,854	27,194	138,825	4.77
91–92.....	0.147118	25,267	3,717	23,408	111,631	4.42
92–93.....	0.163029	21,550	3,513	19,793	88,222	4.09
93–94.....	0.180064	18,036	3,248	16,413	68,429	3.79
94–95.....	0.198178	14,789	2,931	13,323	52,017	3.52
95–96.....	0.217301	11,858	2,577	10,570	38,693	3.26
96–97.....	0.237335	9,281	2,203	8,180	28,124	3.03
97–98.....	0.258154	7,078	1,827	6,165	19,944	2.82
98–99.....	0.279610	5,251	1,468	4,517	13,779	2.62
99–100.....	0.301534	3,783	1,141	3,213	9,262	2.45
100–101.....	0.323738	2,642	855	2,215	6,050	2.29
101–102.....	0.346028	1,787	618	1,478	3,835	2.15
102–103.....	0.368205	1,169	430	953	2,357	2.02
103–104.....	0.390074	738	288	594	1,404	1.90
104–105.....	0.411452	450	185	358	810	1.80
105–106.....	0.432170	265	115	208	452	1.71
106–107.....	0.452084	150	68	116	244	1.62
107–108.....	0.471072	82	39	63	128	1.55
108–109.....	0.489040	44	21	33	65	1.48
109–110.....	0.505920	22	11	17	32	1.43

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 4. Life table for the white population: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table04.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table04.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002061	100,000	206	274	7,888,126	78.88
1–7.....	0.000701	99,794	70	1,640	7,887,852	79.04
7–28.....	0.000707	99,724	71	5,736	7,886,212	79.08
28–365.....	0.001721	99,653	171	91,930	7,880,477	79.08
Years						
0–1.....	0.005190	100,000	518	99,579	7,888,126	78.88
1–2.....	0.000373	99,482	37	99,463	7,788,547	78.29
2–3.....	0.000252	99,445	25	99,432	7,689,084	77.32
3–4.....	0.000203	99,420	20	99,410	7,589,652	76.34
4–5.....	0.000154	99,400	15	99,392	7,490,242	75.35
5–6.....	0.000141	99,384	14	99,377	7,390,850	74.37
6–7.....	0.000125	99,370	12	99,364	7,291,473	73.38
7–8.....	0.000112	99,358	11	99,352	7,192,108	72.39
8–9.....	0.000099	99,347	10	99,342	7,092,756	71.39
9–10.....	0.000086	99,337	9	99,333	6,993,414	70.40
10–11.....	0.000078	99,328	8	99,325	6,894,081	69.41
11–12.....	0.000084	99,321	8	99,316	6,794,757	68.41
12–13.....	0.000112	99,312	11	99,307	6,695,440	67.42
13–14.....	0.000168	99,301	17	99,293	6,596,134	66.43
14–15.....	0.000243	99,284	24	99,272	6,496,841	65.44
15–16.....	0.000322	99,260	32	99,244	6,397,569	64.45
16–17.....	0.000399	99,228	40	99,209	6,298,324	63.47
17–18.....	0.000477	99,189	47	99,165	6,199,116	62.50
18–19.....	0.000556	99,141	55	99,114	6,099,951	61.53
19–20.....	0.000635	99,086	63	99,055	6,000,837	60.56
20–21.....	0.000720	99,023	71	98,988	5,901,782	59.60
21–22.....	0.000801	98,952	79	98,913	5,802,794	58.64
22–23.....	0.000861	98,873	85	98,830	5,703,882	57.69
23–24.....	0.000893	98,788	88	98,744	5,605,051	56.74
24–25.....	0.000903	98,700	89	98,655	5,506,308	55.79
25–26.....	0.000907	98,610	89	98,566	5,407,653	54.84
26–27.....	0.000915	98,521	90	98,476	5,309,087	53.89
27–28.....	0.000927	98,431	91	98,385	5,210,611	52.94
28–29.....	0.000947	98,340	93	98,293	5,112,226	51.99
29–30.....	0.000975	98,246	96	98,198	5,013,933	51.03
30–31.....	0.001009	98,151	99	98,101	4,915,735	50.08
31–32.....	0.001046	98,051	103	98,000	4,817,634	49.13
32–33.....	0.001083	97,949	106	97,896	4,719,633	48.18
33–34.....	0.001117	97,843	109	97,788	4,621,738	47.24
34–35.....	0.001153	97,734	113	97,677	4,523,949	46.29
35–36.....	0.001199	97,621	117	97,562	4,426,272	45.34
36–37.....	0.001260	97,504	123	97,442	4,328,710	44.40
37–38.....	0.001334	97,381	130	97,316	4,231,267	43.45
38–39.....	0.001424	97,251	138	97,182	4,133,951	42.51
39–40.....	0.001531	97,113	149	97,038	4,036,769	41.57
40–41.....	0.001650	96,964	160	96,884	3,939,731	40.63
41–42.....	0.001789	96,804	173	96,717	3,842,847	39.70
42–43.....	0.001959	96,631	189	96,536	3,746,129	38.77
43–44.....	0.002163	96,441	209	96,337	3,649,593	37.84
44–45.....	0.002388	96,233	230	96,118	3,553,256	36.92
45–46.....	0.002618	96,003	251	95,877	3,457,138	36.01
46–47.....	0.002852	95,752	273	95,615	3,361,261	35.10
47–48.....	0.003109	95,479	297	95,330	3,265,645	34.20
48–49.....	0.003399	95,182	324	95,020	3,170,315	33.31
49–50.....	0.003719	94,858	353	94,682	3,075,295	32.42
50–51.....	0.004064	94,505	384	94,313	2,980,613	31.54
51–52.....	0.004417	94,121	416	93,913	2,886,300	30.67
52–53.....	0.004772	93,706	447	93,482	2,792,386	29.80

**Table 4. Life table for the white population: United States, 2009–2011—Con.**

Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table04.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table04.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.005125	93,258	478	93,019	2,698,904	28.94
54–55	0.005489	92,780	509	92,526	2,605,885	28.09
55–56	0.005878	92,271	542	92,000	2,513,359	27.24
56–57	0.006309	91,729	579	91,440	2,421,359	26.40
57–58	0.006788	91,150	619	90,841	2,329,920	25.56
58–59	0.007313	90,531	662	90,200	2,239,079	24.73
59–60	0.007879	89,869	708	89,515	2,148,878	23.91
60–61	0.008481	89,161	756	88,783	2,059,363	23.10
61–62	0.009122	88,405	806	88,002	1,970,580	22.29
62–63	0.009813	87,599	860	87,169	1,882,578	21.49
63–64	0.010580	86,739	918	86,280	1,795,409	20.70
64–65	0.011454	85,821	983	85,330	1,709,129	19.91
65–66	0.012480	84,838	1,059	84,309	1,623,799	19.14
66–67	0.013663	83,780	1,145	83,207	1,539,490	18.38
67–68	0.014934	82,635	1,234	82,018	1,456,283	17.62
68–69	0.016260	81,401	1,324	80,739	1,374,265	16.88
69–70	0.017679	80,077	1,416	79,369	1,293,526	16.15
70–71	0.019277	78,662	1,516	77,903	1,214,156	15.44
71–72	0.021072	77,145	1,626	76,332	1,136,253	14.73
72–73	0.023126	75,520	1,746	74,646	1,059,921	14.04
73–74	0.025386	73,773	1,873	72,837	985,274	13.36
74–75	0.027915	71,900	2,007	70,897	912,438	12.69
75–76	0.030578	69,893	2,137	68,825	841,541	12.04
76–77	0.033533	67,756	2,272	66,620	772,716	11.40
77–78	0.037035	65,484	2,425	64,271	706,096	10.78
78–79	0.041028	63,059	2,587	61,765	641,825	10.18
79–80	0.045325	60,472	2,741	59,101	580,060	9.59
80–81	0.050204	57,731	2,898	56,282	520,958	9.02
81–82	0.055456	54,832	3,041	53,312	464,677	8.47
82–83	0.061552	51,792	3,188	50,198	411,365	7.94
83–84	0.068133	48,604	3,312	46,948	361,167	7.43
84–85	0.076165	45,292	3,450	43,567	314,219	6.94
85–86	0.085071	41,843	3,560	40,063	270,652	6.47
86–87	0.094636	38,283	3,623	36,472	230,589	6.02
87–88	0.105617	34,660	3,661	32,830	194,117	5.60
88–89	0.117753	30,999	3,650	29,174	161,287	5.20
89–90	0.130958	27,349	3,582	25,558	132,113	4.83
90–91	0.145251	23,768	3,452	22,041	106,555	4.48
91–92	0.160637	20,315	3,263	18,684	84,513	4.16
92–93	0.177099	17,052	3,020	15,542	65,830	3.86
93–94	0.194600	14,032	2,731	12,667	50,288	3.58
94–95	0.213077	11,301	2,408	10,097	37,621	3.33
95–96	0.232445	8,893	2,067	7,860	27,524	3.09
96–97	0.252593	6,826	1,724	5,964	19,664	2.88
97–98	0.273387	5,102	1,395	4,404	13,700	2.69
98–99	0.294676	3,707	1,092	3,161	9,296	2.51
99–100	0.316289	2,615	827	2,201	6,135	2.35
100–101	0.338046	1,788	604	1,486	3,934	2.20
101–102	0.359763	1,183	426	971	2,448	2.07
102–103	0.381257	758	289	613	1,477	1.95
103–104	0.402352	469	189	374	864	1.84
104–105	0.422884	280	118	221	490	1.75
105–106	0.442709	162	72	126	269	1.66
106–107	0.461704	90	42	69	143	1.59
107–108	0.479767	49	23	37	74	1.52
108–109	0.496824	25	13	19	37	1.46
109–110	0.512824	13	7	9	18	1.40

SOURCE: NCHS, National Vital Statistics System, Mortality.



**Table 5. Life table for white males: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table05.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table05.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
0–1.....	0.002220	100,000	222	274	7,648,500	76.49
1–7.....	0.000764	99,778	76	1,640	7,648,226	76.65
7–28.....	0.000751	99,702	75	5,734	7,646,587	76.69
28–365.....	0.001911	99,627	190	91,896	7,640,853	76.69
Years						
0–1.....	0.005646	100,000	564	99,544	7,648,501	76.49
1–2.....	0.000399	99,436	40	99,417	7,548,956	75.92
2–3.....	0.000287	99,397	29	99,383	7,449,540	74.95
3–4.....	0.000234	99,368	23	99,357	7,350,157	73.97
4–5.....	0.000170	99,345	17	99,337	7,250,801	72.99
5–6.....	0.000158	99,328	16	99,320	7,151,464	72.00
6–7.....	0.000141	99,312	14	99,305	7,052,144	71.01
7–8.....	0.000126	99,298	12	99,292	6,952,838	70.02
8–9.....	0.000108	99,286	11	99,281	6,853,546	69.03
9–10.....	0.000089	99,275	9	99,271	6,754,265	68.04
10–11.....	0.000077	99,266	8	99,263	6,654,995	67.04
11–12.....	0.000083	99,259	8	99,255	6,555,732	66.05
12–13.....	0.000123	99,251	12	99,244	6,456,477	65.05
13–14.....	0.000202	99,238	20	99,228	6,357,233	64.06
14–15.....	0.000310	99,218	31	99,203	6,258,004	63.07
15–16.....	0.000423	99,187	42	99,166	6,158,802	62.09
16–17.....	0.000532	99,145	53	99,119	6,059,635	61.12
17–18.....	0.000648	99,093	64	99,061	5,960,516	60.15
18–19.....	0.000771	99,028	76	98,990	5,861,455	59.19
19–20.....	0.000899	98,952	89	98,908	5,762,465	58.23
20–21.....	0.001035	98,863	102	98,812	5,663,557	57.29
21–22.....	0.001164	98,761	115	98,703	5,564,745	56.35
22–23.....	0.001257	98,646	124	98,584	5,466,042	55.41
23–24.....	0.001299	98,522	128	98,458	5,367,458	54.48
24–25.....	0.001303	98,394	128	98,330	5,269,000	53.55
25–26.....	0.001295	98,266	127	98,202	5,170,670	52.62
26–27.....	0.001293	98,138	127	98,075	5,072,468	51.69
27–28.....	0.001296	98,012	127	97,948	4,974,393	50.75
28–29.....	0.001312	97,884	128	97,820	4,876,445	49.82
29–30.....	0.001338	97,756	131	97,691	4,778,625	48.88
30–31.....	0.001370	97,625	134	97,558	4,680,934	47.95
31–32.....	0.001403	97,491	137	97,423	4,583,376	47.01
32–33.....	0.001437	97,355	140	97,285	4,485,953	46.08
33–34.....	0.001469	97,215	143	97,143	4,388,668	45.14
34–35.....	0.001504	97,072	146	96,999	4,291,525	44.21
35–36.....	0.001552	96,926	150	96,851	4,194,526	43.28
36–37.....	0.001618	96,776	157	96,697	4,097,675	42.34
37–38.....	0.001701	96,619	164	96,537	4,000,977	41.41
38–39.....	0.001801	96,455	174	96,368	3,904,441	40.48
39–40.....	0.001922	96,281	185	96,188	3,808,073	39.55
40–41.....	0.002058	96,096	198	95,997	3,711,884	38.63
41–42.....	0.002220	95,898	213	95,792	3,615,887	37.71
42–43.....	0.002423	95,685	232	95,569	3,520,095	36.79
43–44.....	0.002672	95,453	255	95,326	3,424,526	35.88
44–45.....	0.002953	95,198	281	95,058	3,329,200	34.97
45–46.....	0.003241	94,917	308	94,764	3,234,142	34.07
46–47.....	0.003536	94,610	335	94,443	3,139,378	33.18
47–48.....	0.003863	94,275	364	94,093	3,044,936	32.30
48–49.....	0.004230	93,911	397	93,712	2,950,843	31.42
49–50.....	0.004636	93,514	434	93,297	2,857,130	30.55
50–51.....	0.005069	93,080	472	92,844	2,763,833	29.69
51–52.....	0.005514	92,608	511	92,353	2,670,989	28.84
52–53.....	0.005974	92,098	550	91,823	2,578,636	28.00

**Table 5. Life table for white males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table05.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table05.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.006450	91,548	591	91,252	2,486,813	27.16
54–55	0.006953	90,957	632	90,641	2,395,561	26.34
55–56	0.007498	90,325	677	89,986	2,304,920	25.52
56–57	0.008087	89,647	725	89,285	2,214,934	24.71
57–58	0.008706	88,922	774	88,535	2,125,649	23.90
58–59	0.009340	88,148	823	87,737	2,037,114	23.11
59–60	0.009986	87,325	872	86,889	1,949,377	22.32
60–61	0.010660	86,453	922	85,992	1,862,488	21.54
61–62	0.011381	85,531	973	85,045	1,776,496	20.77
62–63	0.012166	84,558	1,029	84,044	1,691,451	20.00
63–64	0.013056	83,529	1,091	82,984	1,607,407	19.24
64–65	0.014087	82,439	1,161	81,858	1,524,423	18.49
65–66	0.015296	81,277	1,243	80,656	1,442,565	17.75
66–67	0.016688	80,034	1,336	79,366	1,361,910	17.02
67–68	0.018182	78,699	1,431	77,983	1,282,543	16.30
68–69	0.019762	77,268	1,527	76,504	1,204,560	15.59
69–70	0.021428	75,741	1,623	74,929	1,128,056	14.89
70–71	0.023304	74,118	1,727	73,254	1,053,127	14.21
71–72	0.025397	72,391	1,839	71,471	979,873	13.54
72–73	0.027810	70,552	1,962	69,571	908,401	12.88
73–74	0.030482	68,590	2,091	67,545	838,830	12.23
74–75	0.033471	66,499	2,226	65,386	771,286	11.60
75–76	0.036624	64,273	2,354	63,096	705,899	10.98
76–77	0.040110	61,919	2,484	60,678	642,803	10.38
77–78	0.044189	59,436	2,626	58,123	582,125	9.79
78–79	0.048944	56,810	2,780	55,419	524,003	9.22
79–80	0.053931	54,029	2,914	52,572	468,583	8.67
80–81	0.060069	51,115	3,070	49,580	416,011	8.14
81–82	0.066455	48,045	3,193	46,448	366,431	7.63
82–83	0.073592	44,852	3,301	43,202	319,983	7.13
83–84	0.081196	41,551	3,374	39,864	276,781	6.66
84–85	0.090418	38,177	3,452	36,451	236,917	6.21
85–86	0.100662	34,726	3,496	32,978	200,465	5.77
86–87	0.111727	31,230	3,489	29,485	167,488	5.36
87–88	0.125234	27,741	3,474	26,004	138,002	4.97
88–89	0.139188	24,267	3,378	22,578	111,999	4.62
89–90	0.154254	20,889	3,222	19,278	89,421	4.28
90–91	0.170424	17,667	3,011	16,161	70,143	3.97
91–92	0.187668	14,656	2,750	13,281	53,981	3.68
92–93	0.205933	11,906	2,452	10,680	40,701	3.42
93–94	0.225140	9,454	2,128	8,390	30,021	3.18
94–95	0.245185	7,325	1,796	6,427	21,631	2.95
95–96	0.265940	5,529	1,470	4,794	15,204	2.75
96–97	0.287254	4,059	1,166	3,476	10,410	2.56
97–98	0.308960	2,893	894	2,446	6,934	2.40
98–99	0.330875	1,999	661	1,668	4,488	2.25
99–100	0.352812	1,338	472	1,102	2,820	2.11
100–101	0.374581	866	324	704	1,718	1.98
101–102	0.395998	541	214	434	1,015	1.87
102–103	0.416892	327	136	259	580	1.77
103–104	0.437108	191	83	149	321	1.69
104–105	0.456512	107	49	83	172	1.61
105–106	0.474996	58	28	44	90	1.54
106–107	0.492474	31	15	23	45	1.47
107–108	0.508888	16	8	12	22	1.42
108–109	0.524203	8	4	6	10	1.37
109–110	0.538405	4	2	3	5	1.32

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 6. Life table for white females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table06.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table06.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1	0.001895	100,000	189	274	8,122,765	81.23
1–7	0.000635	99,811	63	1,640	8,122,491	81.38
7–28	0.000661	99,747	66	5,737	8,120,851	81.41
28–365	0.001521	99,681	152	91,964	8,115,114	81.41
Years						
0–1	0.004711	100,000	470	99,616	8,122,766	81.23
1–2	0.000345	99,530	34	99,512	8,023,150	80.61
2–3	0.000216	99,495	21	99,485	7,923,638	79.64
3–4	0.000170	99,474	17	99,465	7,824,153	78.66
4–5	0.000136	99,457	14	99,450	7,724,688	77.67
5–6	0.000122	99,443	12	99,437	7,625,238	76.68
6–7	0.000108	99,431	11	99,426	7,525,800	75.69
7–8	0.000098	99,420	10	99,416	7,426,375	74.70
8–9	0.000090	99,411	9	99,406	7,326,959	73.70
9–10	0.000083	99,402	8	99,398	7,227,553	72.71
10–11	0.000080	99,393	8	99,390	7,128,155	71.72
11–12	0.000085	99,386	8	99,381	7,028,766	70.72
12–13	0.000101	99,377	10	99,372	6,929,384	69.73
13–14	0.000132	99,367	13	99,360	6,830,012	68.74
14–15	0.000172	99,354	17	99,345	6,730,652	67.74
15–16	0.000216	99,337	21	99,326	6,631,306	66.76
16–17	0.000258	99,315	26	99,303	6,531,980	65.77
17–18	0.000296	99,290	29	99,275	6,432,678	64.79
18–19	0.000328	99,261	33	99,244	6,333,402	63.81
19–20	0.000356	99,228	35	99,210	6,234,158	62.83
20–21	0.000386	99,193	38	99,173	6,134,948	61.85
21–22	0.000416	99,154	41	99,134	6,035,774	60.87
22–23	0.000443	99,113	44	99,091	5,936,641	59.90
23–24	0.000465	99,069	46	99,046	5,837,550	58.92
24–25	0.000483	99,023	48	98,999	5,738,503	57.95
25–26	0.000501	98,975	50	98,950	5,639,504	56.98
26–27	0.000520	98,926	51	98,900	5,540,554	56.01
27–28	0.000542	98,874	54	98,847	5,441,654	55.04
28–29	0.000568	98,821	56	98,793	5,342,806	54.07
29–30	0.000598	98,765	59	98,735	5,244,014	53.10
30–31	0.000635	98,705	63	98,674	5,145,279	52.13
31–32	0.000676	98,643	67	98,609	5,046,605	51.16
32–33	0.000716	98,576	71	98,541	4,947,995	50.19
33–34	0.000754	98,506	74	98,468	4,849,454	49.23
34–35	0.000792	98,431	78	98,392	4,750,986	48.27
35–36	0.000837	98,353	82	98,312	4,652,594	47.30
36–37	0.000894	98,271	88	98,227	4,554,282	46.34
37–38	0.000961	98,183	94	98,136	4,456,055	45.39
38–39	0.001040	98,089	102	98,038	4,357,919	44.43
39–40	0.001133	97,987	111	97,931	4,259,881	43.47
40–41	0.001235	97,876	121	97,815	4,161,950	42.52
41–42	0.001350	97,755	132	97,689	4,064,135	41.57
42–43	0.001487	97,623	145	97,550	3,966,446	40.63
43–44	0.001646	97,477	160	97,397	3,868,896	39.69
44–45	0.001820	97,317	177	97,228	3,771,499	38.75
45–46	0.001993	97,140	194	97,043	3,674,271	37.82
46–47	0.002168	96,946	210	96,841	3,577,227	36.90
47–48	0.002360	96,736	228	96,622	3,480,386	35.98
48–49	0.002575	96,508	249	96,384	3,383,764	35.06
49–50	0.002812	96,259	271	96,124	3,287,381	34.15
50–51	0.003071	95,989	295	95,841	3,191,257	33.25
51–52	0.003336	95,694	319	95,534	3,095,415	32.35
52–53	0.003590	95,375	342	95,204	2,999,881	31.45

**Table 6. Life table for white females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table06.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table06.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.003827	95,032	364	94,850	2,904,678	30.57
54–55	0.004061	94,669	384	94,476	2,809,827	29.68
55–56	0.004307	94,284	406	94,081	2,715,351	28.80
56–57	0.004595	93,878	431	93,662	2,621,270	27.92
57–58	0.004946	93,447	462	93,216	2,527,607	27.05
58–59	0.005374	92,985	500	92,735	2,434,392	26.18
59–60	0.005867	92,485	543	92,214	2,341,657	25.32
60–61	0.006405	91,942	589	91,648	2,249,443	24.47
61–62	0.006975	91,353	637	91,035	2,157,796	23.62
62–63	0.007584	90,716	688	90,372	2,066,761	22.78
63–64	0.008247	90,028	742	89,657	1,976,389	21.95
64–65	0.008993	89,286	803	88,884	1,886,732	21.13
65–66	0.009873	88,483	874	88,046	1,797,848	20.32
66–67	0.010891	87,609	954	87,132	1,709,802	19.52
67–68	0.011985	86,655	1,039	86,136	1,622,669	18.73
68–69	0.013108	85,616	1,122	85,055	1,536,534	17.95
69–70	0.014332	84,494	1,211	83,889	1,451,478	17.18
70–71	0.015711	83,283	1,308	82,629	1,367,590	16.42
71–72	0.017283	81,975	1,417	81,266	1,284,961	15.68
72–73	0.019072	80,558	1,536	79,790	1,203,694	14.94
73–74	0.021036	79,023	1,662	78,190	1,123,904	14.22
74–75	0.023248	77,359	1,798	76,460	1,045,714	13.52
75–76	0.025582	75,561	1,933	74,594	969,254	12.83
76–77	0.028192	73,628	2,076	72,590	894,659	12.15
77–78	0.031344	71,552	2,243	70,431	822,069	11.49
78–79	0.034882	69,309	2,418	68,101	751,638	10.84
79–80	0.038823	66,892	2,597	65,593	683,538	10.22
80–81	0.042964	64,295	2,762	62,914	617,944	9.61
81–82	0.047636	61,532	2,931	60,067	555,031	9.02
82–83	0.053289	58,601	3,123	57,040	494,964	8.45
83–84	0.059512	55,478	3,302	53,828	437,924	7.89
84–85	0.067159	52,177	3,504	50,425	384,096	7.36
85–86	0.075683	48,673	3,684	46,831	333,672	6.86
86–87	0.084454	44,989	3,799	43,089	286,841	6.38
87–88	0.095082	41,189	3,916	39,231	243,752	5.92
88–89	0.106803	37,273	3,981	35,283	204,520	5.49
89–90	0.119666	33,292	3,984	31,300	169,238	5.08
90–91	0.133708	29,308	3,919	27,349	137,937	4.71
91–92	0.148949	25,390	3,782	23,499	110,589	4.36
92–93	0.165388	21,608	3,574	19,821	87,090	4.03
93–94	0.183000	18,034	3,300	16,384	67,269	3.73
94–95	0.201733	14,734	2,972	13,248	50,885	3.45
95–96	0.221506	11,762	2,605	10,459	37,637	3.20
96–97	0.242207	9,156	2,218	8,047	27,178	2.97
97–98	0.263696	6,939	1,830	6,024	19,131	2.76
98–99	0.285808	5,109	1,460	4,379	13,107	2.57
99–100	0.308356	3,649	1,125	3,086	8,728	2.39
100–101	0.331136	2,524	836	2,106	5,642	2.24
101–102	0.353936	1,688	597	1,389	3,536	2.09
102–103	0.376545	1,091	411	885	2,147	1.97
103–104	0.398756	680	271	544	1,262	1.86
104–105	0.420379	409	172	323	717	1.76
105–106	0.441243	237	105	185	395	1.67
106–107	0.461204	132	61	102	210	1.59
107–108	0.480145	71	34	54	108	1.51
108–109	0.497978	37	18	28	54	1.45
109–110	0.514646	19	10	14	26	1.40

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 7. Life table for the black population: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table07.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table07.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.005115	100,000	511	274	7,499,338	74.99
1–7.....	0.001131	99,489	113	1,635	7,499,064	75.38
7–28.....	0.001506	99,376	150	5,713	7,497,429	75.45
28–365.....	0.004185	99,226	415	91,423	7,491,716	75.50
Years						
0–1.....	0.011937	100,000	1,189	99,044	7,499,338	74.99
1–2.....	0.000667	98,811	66	98,778	7,400,293	74.89
2–3.....	0.000418	98,745	41	98,725	7,301,515	73.94
3–4.....	0.000282	98,704	28	98,690	7,202,791	72.97
4–5.....	0.000233	98,676	23	98,665	7,104,101	71.99
5–6.....	0.000211	98,653	21	98,643	7,005,436	71.01
6–7.....	0.000184	98,632	18	98,623	6,906,794	70.03
7–8.....	0.000162	98,614	16	98,606	6,808,171	69.04
8–9.....	0.000141	98,598	14	98,591	6,709,565	68.05
9–10.....	0.000121	98,584	12	98,578	6,610,973	67.06
10–11.....	0.000110	98,572	11	98,567	6,512,395	66.07
11–12.....	0.000118	98,561	12	98,556	6,413,828	65.07
12–13.....	0.000160	98,550	16	98,542	6,315,273	64.08
13–14.....	0.000240	98,534	24	98,522	6,216,731	63.09
14–15.....	0.000343	98,510	34	98,494	6,118,209	62.11
15–16.....	0.000448	98,477	44	98,455	6,019,715	61.13
16–17.....	0.000546	98,433	54	98,406	5,921,260	60.16
17–18.....	0.000651	98,379	64	98,347	5,822,855	59.19
18–19.....	0.000766	98,315	75	98,277	5,724,508	58.23
19–20.....	0.000892	98,239	88	98,196	5,626,231	57.27
20–21.....	0.001036	98,152	102	98,101	5,528,035	56.32
21–22.....	0.001180	98,050	116	97,992	5,429,934	55.38
22–23.....	0.001293	97,934	127	97,871	5,331,942	54.44
23–24.....	0.001354	97,808	132	97,742	5,234,071	53.51
24–25.....	0.001375	97,675	134	97,608	5,136,329	52.59
25–26.....	0.001383	97,541	135	97,474	5,038,721	51.66
26–27.....	0.001401	97,406	136	97,338	4,941,247	50.73
27–28.....	0.001423	97,270	138	97,201	4,843,909	49.80
28–29.....	0.001457	97,131	142	97,061	4,746,709	48.87
29–30.....	0.001502	96,990	146	96,917	4,649,648	47.94
30–31.....	0.001552	96,844	150	96,769	4,552,731	47.01
31–32.....	0.001602	96,694	155	96,616	4,455,962	46.08
32–33.....	0.001657	96,539	160	96,459	4,359,346	45.16
33–34.....	0.001717	96,379	166	96,296	4,262,887	44.23
34–35.....	0.001786	96,213	172	96,128	4,166,591	43.31
35–36.....	0.001870	96,042	180	95,952	4,070,463	42.38
36–37.....	0.001969	95,862	189	95,768	3,974,511	41.46
37–38.....	0.002084	95,673	199	95,574	3,878,744	40.54
38–39.....	0.002214	95,474	211	95,368	3,783,170	39.63
39–40.....	0.002363	95,263	225	95,150	3,687,802	38.71
40–41.....	0.002533	95,037	241	94,917	3,592,652	37.80
41–42.....	0.002729	94,797	259	94,667	3,497,735	36.90
42–43.....	0.002962	94,538	280	94,398	3,403,067	36.00
43–44.....	0.003232	94,258	305	94,106	3,308,669	35.10
44–45.....	0.003533	93,953	332	93,787	3,214,564	34.21
45–46.....	0.003838	93,621	359	93,442	3,120,776	33.33
46–47.....	0.004162	93,262	388	93,068	3,027,334	32.46
47–48.....	0.004549	92,874	422	92,663	2,934,266	31.59
48–49.....	0.005018	92,452	464	92,220	2,841,603	30.74
49–50.....	0.005558	91,988	511	91,732	2,749,384	29.89
50–51.....	0.006132	91,476	561	91,196	2,657,652	29.05
51–52.....	0.006714	90,915	610	90,610	2,566,456	28.23
52–53.....	0.007326	90,305	662	89,974	2,475,846	27.42

**Table 7. Life table for the black population: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table07.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table07.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.007975	89,643	715	89,286	2,385,872	26.62
54–55	0.008672	88,928	771	88,543	2,296,586	25.83
55–56	0.009443	88,157	832	87,741	2,208,043	25.05
56–57	0.010270	87,325	897	86,876	2,120,302	24.28
57–58	0.011105	86,428	960	85,948	2,033,425	23.53
58–59	0.011906	85,468	1,018	84,959	1,947,477	22.79
59–60	0.012681	84,451	1,071	83,915	1,862,518	22.05
60–61	0.013499	83,380	1,126	82,817	1,778,603	21.33
61–62	0.014395	82,254	1,184	81,662	1,695,786	20.62
62–63	0.015330	81,070	1,243	80,449	1,614,124	19.91
63–64	0.016319	79,827	1,303	79,176	1,533,675	19.21
64–65	0.017391	78,525	1,366	77,842	1,454,499	18.52
65–66	0.018589	77,159	1,434	76,442	1,376,657	17.84
66–67	0.019971	75,725	1,512	74,969	1,300,215	17.17
67–68	0.021441	74,212	1,591	73,417	1,225,246	16.51
68–69	0.023051	72,621	1,674	71,784	1,151,830	15.86
69–70	0.024696	70,947	1,752	70,071	1,080,045	15.22
70–71	0.026446	69,195	1,830	68,280	1,009,974	14.60
71–72	0.028301	67,365	1,906	66,412	941,694	13.98
72–73	0.030439	65,459	1,993	64,462	875,282	13.37
73–74	0.032735	63,466	2,078	62,427	810,820	12.78
74–75	0.035462	61,389	2,177	60,300	748,392	12.19
75–76	0.038326	59,212	2,269	58,077	688,092	11.62
76–77	0.041589	56,942	2,368	55,758	630,015	11.06
77–78	0.044780	54,574	2,444	53,352	574,257	10.52
78–79	0.049010	52,130	2,555	50,853	520,905	9.99
79–80	0.052884	49,575	2,622	48,264	470,052	9.48
80–81	0.058265	46,954	2,736	45,586	421,788	8.98
81–82	0.063175	44,218	2,793	42,821	376,202	8.51
82–83	0.068436	41,424	2,835	40,007	333,381	8.05
83–84	0.074836	38,589	2,888	37,146	293,374	7.60
84–85	0.081700	35,702	2,917	34,243	256,228	7.18
85–86	0.089100	32,785	2,921	31,324	221,985	6.77
86–87	0.097059	29,864	2,899	28,414	190,661	6.38
87–88	0.105599	26,965	2,847	25,541	162,247	6.02
88–89	0.114739	24,118	2,767	22,734	136,705	5.67
89–90	0.124494	21,350	2,658	20,021	113,971	5.34
90–91	0.134877	18,692	2,521	17,432	93,950	5.03
91–92	0.145892	16,171	2,359	14,992	76,518	4.73
92–93	0.157540	13,812	2,176	12,724	61,526	4.45
93–94	0.169815	11,636	1,976	10,648	48,802	4.19
94–95	0.182703	9,660	1,765	8,778	38,154	3.95
95–96	0.196183	7,895	1,549	7,121	29,377	3.72
96–97	0.210225	6,346	1,334	5,679	22,256	3.51
97–98	0.224792	5,012	1,127	4,449	16,577	3.31
98–99	0.239839	3,885	932	3,419	12,128	3.12
99–100	0.255310	2,954	754	2,577	8,709	2.95
100–101	0.271146	2,199	596	1,901	6,132	2.79
101–102	0.287278	1,603	461	1,373	4,231	2.64
102–103	0.303633	1,143	347	969	2,858	2.50
103–104	0.320133	796	255	668	1,889	2.37
104–105	0.336699	541	182	450	1,221	2.26
105–106	0.353247	359	127	295	771	2.15
106–107	0.369698	232	86	189	475	2.05
107–108	0.385972	146	56	118	286	1.96
108–109	0.401992	90	36	72	168	1.87
109–110	0.417688	54	22	42	96	1.79

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 8. Life table for black males: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table08.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table08.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.005575	100,000	558	274	7,175,216	71.75
1–7.....	0.001265	99,442	126	1,634	7,174,942	72.15
7–28.....	0.001610	99,317	160	5,710	7,173,308	72.23
28–365.....	0.004702	99,157	466	91,335	7,167,599	72.29
Years						
0–1.....	0.013153	100,000	1,310	98,952	7,175,216	71.75
1–2.....	0.000694	98,690	69	98,656	7,076,264	71.70
2–3.....	0.000482	98,622	48	98,598	6,977,608	70.75
3–4.....	0.000319	98,574	31	98,559	6,879,010	69.78
4–5.....	0.000260	98,543	26	98,530	6,780,451	68.81
5–6.....	0.000238	98,517	23	98,506	6,681,921	67.82
6–7.....	0.000211	98,494	21	98,483	6,583,415	66.84
7–8.....	0.000186	98,473	18	98,464	6,484,932	65.85
8–9.....	0.000155	98,455	15	98,447	6,386,468	64.87
9–10.....	0.000121	98,440	12	98,434	6,288,021	63.88
10–11.....	0.000096	98,428	9	98,423	6,189,587	62.88
11–12.....	0.000103	98,418	10	98,413	6,091,164	61.89
12–13.....	0.000168	98,408	17	98,400	5,992,751	60.90
13–14.....	0.000300	98,391	30	98,377	5,894,351	59.91
14–15.....	0.000475	98,362	47	98,339	5,795,975	58.92
15–16.....	0.000650	98,315	64	98,283	5,697,636	57.95
16–17.....	0.000812	98,251	80	98,211	5,599,353	56.99
17–18.....	0.000980	98,172	96	98,123	5,501,141	56.04
18–19.....	0.001164	98,075	114	98,018	5,403,018	55.09
19–20.....	0.001365	97,961	134	97,894	5,305,000	54.15
20–21.....	0.001596	97,827	156	97,749	5,207,105	53.23
21–22.....	0.001827	97,671	178	97,582	5,109,356	52.31
22–23.....	0.002005	97,493	195	97,395	5,011,774	51.41
23–24.....	0.002092	97,298	204	97,196	4,914,378	50.51
24–25.....	0.002105	97,094	204	96,992	4,817,183	49.61
25–26.....	0.002092	96,890	203	96,788	4,720,191	48.72
26–27.....	0.002091	96,687	202	96,586	4,623,403	47.82
27–28.....	0.002095	96,485	202	96,384	4,526,817	46.92
28–29.....	0.002117	96,283	204	96,181	4,430,433	46.01
29–30.....	0.002155	96,079	207	95,975	4,334,253	45.11
30–31.....	0.002194	95,872	210	95,766	4,238,277	44.21
31–32.....	0.002229	95,661	213	95,555	4,142,511	43.30
32–33.....	0.002268	95,448	217	95,340	4,046,956	42.40
33–34.....	0.002315	95,232	220	95,121	3,951,616	41.49
34–35.....	0.002372	95,011	225	94,898	3,856,495	40.59
35–36.....	0.002446	94,786	232	94,670	3,761,597	39.69
36–37.....	0.002539	94,554	240	94,434	3,666,927	38.78
37–38.....	0.002651	94,314	250	94,189	3,572,493	37.88
38–39.....	0.002782	94,064	262	93,933	3,478,305	36.98
39–40.....	0.002936	93,802	275	93,664	3,384,372	36.08
40–41.....	0.003118	93,527	292	93,381	3,290,707	35.18
41–42.....	0.003333	93,235	311	93,080	3,197,327	34.29
42–43.....	0.003589	92,924	333	92,758	3,104,247	33.41
43–44.....	0.003885	92,591	360	92,411	3,011,489	32.52
44–45.....	0.004219	92,231	389	92,037	2,919,078	31.65
45–46.....	0.004562	91,842	419	91,632	2,827,042	30.78
46–47.....	0.004938	91,423	451	91,197	2,735,410	29.92
47–48.....	0.005407	90,971	492	90,726	2,644,212	29.07
48–49.....	0.005999	90,480	543	90,208	2,553,487	28.22
49–50.....	0.006693	89,937	602	89,636	2,463,279	27.39
50–51.....	0.007431	89,335	664	89,003	2,373,643	26.57
51–52.....	0.008185	88,671	726	88,308	2,284,640	25.77
52–53.....	0.009001	87,945	792	87,549	2,196,332	24.97

**Table 8. Life table for black males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table08.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table08.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54.....	0.009902	87,154	863	86,722	2,108,782	24.20
54–55.....	0.010896	86,291	940	85,821	2,022,060	23.43
55–56.....	0.012015	85,350	1,025	84,838	1,936,240	22.69
56–57.....	0.013213	84,325	1,114	83,768	1,851,402	21.96
57–58.....	0.014401	83,211	1,198	82,612	1,767,634	21.24
58–59.....	0.015495	82,012	1,271	81,377	1,685,022	20.55
59–60.....	0.016506	80,742	1,333	80,075	1,603,645	19.86
60–61.....	0.017555	79,409	1,394	78,712	1,523,570	19.19
61–62.....	0.018707	78,015	1,459	77,285	1,444,858	18.52
62–63.....	0.019891	76,555	1,523	75,794	1,367,573	17.86
63–64.....	0.021130	75,033	1,585	74,240	1,291,779	17.22
64–65.....	0.022463	73,447	1,650	72,622	1,217,539	16.58
65–66.....	0.023936	71,797	1,719	70,938	1,144,917	15.95
66–67.....	0.025630	70,079	1,796	69,181	1,073,979	15.33
67–68.....	0.027440	68,283	1,874	67,346	1,004,798	14.72
68–69.....	0.029433	66,409	1,955	65,432	937,452	14.12
69–70.....	0.031444	64,454	2,027	63,441	872,020	13.53
70–71.....	0.033608	62,428	2,098	61,379	808,579	12.95
71–72.....	0.035748	60,330	2,157	59,251	747,201	12.39
72–73.....	0.038508	58,173	2,240	57,053	687,949	11.83
73–74.....	0.041396	55,933	2,315	54,775	630,896	11.28
74–75.....	0.044621	53,617	2,392	52,421	576,121	10.75
75–76.....	0.048310	51,225	2,475	49,988	523,700	10.22
76–77.....	0.052515	48,750	2,560	47,470	473,712	9.72
77–78.....	0.056247	46,190	2,598	44,891	426,242	9.23
78–79.....	0.061585	43,592	2,685	42,250	381,351	8.75
79–80.....	0.066505	40,908	2,721	39,547	339,101	8.29
80–81.....	0.072744	38,187	2,778	36,798	299,554	7.84
81–82.....	0.078178	35,409	2,768	34,025	262,756	7.42
82–83.....	0.087054	32,641	2,842	31,220	228,731	7.01
83–84.....	0.094336	29,799	2,811	28,394	197,510	6.63
84–85.....	0.102119	26,988	2,756	25,610	169,117	6.27
85–86.....	0.110420	24,232	2,676	22,894	143,506	5.92
86–87.....	0.119254	21,557	2,571	20,271	120,612	5.60
87–88.....	0.128631	18,986	2,442	17,765	100,341	5.29
88–89.....	0.138558	16,544	2,292	15,398	82,576	4.99
89–90.....	0.149040	14,251	2,124	13,189	67,179	4.71
90–91.....	0.160074	12,127	1,941	11,157	53,989	4.45
91–92.....	0.171654	10,186	1,748	9,312	42,833	4.20
92–93.....	0.183768	8,438	1,551	7,662	33,521	3.97
93–94.....	0.196398	6,887	1,353	6,211	25,858	3.75
94–95.....	0.209519	5,534	1,160	4,955	19,648	3.55
95–96.....	0.223100	4,375	976	3,887	14,693	3.36
96–97.....	0.237106	3,399	806	2,996	10,806	3.18
97–98.....	0.251492	2,593	652	2,267	7,810	3.01
98–99.....	0.266211	1,941	517	1,683	5,543	2.86
99–100.....	0.281207	1,424	400	1,224	3,861	2.71
100–101.....	0.296422	1,024	303	872	2,637	2.58
101–102.....	0.311795	720	225	608	1,765	2.45
102–103.....	0.327261	496	162	415	1,157	2.33
103–104.....	0.342753	333	114	276	742	2.23
104–105.....	0.358204	219	79	180	466	2.13
105–106.....	0.373548	141	53	114	286	2.03
106–107.....	0.388722	88	34	71	172	1.95
107–108.....	0.403663	54	22	43	101	1.87
108–109.....	0.418313	32	13	25	58	1.80
109–110.....	0.432621	19	8	15	32	1.73

SOURCE: NCHS, National Vital Statistics System, Mortality.



**Table 9. Life table for black females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table09.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table09.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.004638	100,000	464	274	7,791,825	77.92
1–7.....	0.000993	99,536	99	1,635	7,791,551	78.28
7–28.....	0.001399	99,437	139	5,717	7,789,916	78.34
28–365.....	0.003651	99,298	363	91,514	7,784,199	78.39
Years						
0–1.....	0.010681	100,000	1,064	99,140	7,791,825	77.92
1–2.....	0.000638	98,936	63	98,904	7,692,685	77.75
2–3.....	0.000351	98,873	35	98,855	7,593,781	76.80
3–4.....	0.000245	98,838	24	98,826	7,494,926	75.83
4–5.....	0.000205	98,814	20	98,804	7,396,100	74.85
5–6.....	0.000184	98,793	18	98,784	7,297,296	73.86
6–7.....	0.000156	98,775	15	98,768	7,198,512	72.88
7–8.....	0.000137	98,760	14	98,753	7,099,744	71.89
8–9.....	0.000126	98,746	12	98,740	7,000,991	70.90
9–10.....	0.000121	98,734	12	98,728	6,902,251	69.91
10–11.....	0.000124	98,722	12	98,716	6,803,523	68.92
11–12.....	0.000134	98,710	13	98,703	6,704,808	67.92
12–13.....	0.000152	98,696	15	98,689	6,606,105	66.93
13–14.....	0.000177	98,681	17	98,673	6,507,416	65.94
14–15.....	0.000206	98,664	20	98,654	6,408,743	64.96
15–16.....	0.000237	98,644	23	98,632	6,310,089	63.97
16–17.....	0.000270	98,620	27	98,607	6,211,457	62.98
17–18.....	0.000309	98,594	30	98,578	6,112,850	62.00
18–19.....	0.000356	98,563	35	98,546	6,014,272	61.02
19–20.....	0.000411	98,528	40	98,508	5,915,726	60.04
20–21.....	0.000474	98,488	47	98,464	5,817,219	59.07
21–22.....	0.000539	98,441	53	98,414	5,718,754	58.09
22–23.....	0.000597	98,388	59	98,358	5,620,340	57.12
23–24.....	0.000643	98,329	63	98,297	5,521,981	56.16
24–25.....	0.000678	98,266	67	98,233	5,423,684	55.19
25–26.....	0.000714	98,199	70	98,164	5,325,451	54.23
26–27.....	0.000757	98,129	74	98,092	5,227,287	53.27
27–28.....	0.000802	98,055	79	98,016	5,129,195	52.31
28–29.....	0.000852	97,976	84	97,934	5,031,180	51.35
29–30.....	0.000907	97,893	89	97,848	4,933,245	50.39
30–31.....	0.000967	97,804	95	97,757	4,835,397	49.44
31–32.....	0.001034	97,709	101	97,659	4,737,640	48.49
32–33.....	0.001105	97,608	108	97,554	4,639,981	47.54
33–34.....	0.001181	97,500	115	97,443	4,542,427	46.59
34–35.....	0.001263	97,385	123	97,324	4,444,984	45.64
35–36.....	0.001358	97,262	132	97,196	4,347,660	44.70
36–37.....	0.001465	97,130	142	97,059	4,250,464	43.76
37–38.....	0.001582	96,988	153	96,911	4,153,405	42.82
38–39.....	0.001711	96,835	166	96,752	4,056,494	41.89
39–40.....	0.001854	96,669	179	96,579	3,959,742	40.96
40–41.....	0.002010	96,490	194	96,393	3,863,163	40.04
41–42.....	0.002187	96,296	211	96,190	3,766,770	39.12
42–43.....	0.002399	96,085	230	95,970	3,670,580	38.20
43–44.....	0.002645	95,855	254	95,728	3,574,610	37.29
44–45.....	0.002917	95,601	279	95,462	3,478,882	36.39
45–46.....	0.003190	95,322	304	95,170	3,383,420	35.49
46–47.....	0.003470	95,018	330	94,853	3,288,250	34.61
47–48.....	0.003784	94,688	358	94,509	3,193,397	33.73
48–49.....	0.004146	94,330	391	94,135	3,098,888	32.85
49–50.....	0.004549	93,939	427	93,725	3,004,753	31.99
50–51.....	0.004977	93,512	465	93,279	2,911,028	31.13
51–52.....	0.005410	93,046	503	92,795	2,817,749	30.28
52–53.....	0.005845	92,543	541	92,272	2,724,954	29.45

**Table 9. Life table for black females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table09.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table09.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.006282	92,002	578	91,713	2,632,682	28.62
54–55	0.006733	91,424	616	91,116	2,540,969	27.79
55–56	0.007222	90,808	656	90,481	2,449,853	26.98
56–57	0.007754	90,153	699	89,803	2,359,372	26.17
57–58	0.008312	89,454	744	89,082	2,269,569	25.37
58–59	0.008886	88,710	788	88,316	2,180,487	24.58
59–60	0.009479	87,922	833	87,505	2,092,171	23.80
60–61	0.010120	87,088	881	86,648	2,004,666	23.02
61–62	0.010824	86,207	933	85,741	1,918,018	22.25
62–63	0.011580	85,274	987	84,780	1,832,278	21.49
63–64	0.012403	84,286	1,045	83,764	1,747,498	20.73
64–65	0.013314	83,241	1,108	82,687	1,663,734	19.99
65–66	0.014353	82,133	1,179	81,543	1,581,047	19.25
66–67	0.015551	80,954	1,259	80,325	1,499,503	18.52
67–68	0.016817	79,695	1,340	79,025	1,419,179	17.81
68–69	0.018191	78,355	1,425	77,642	1,340,154	17.10
69–70	0.019611	76,930	1,509	76,175	1,262,512	16.41
70–71	0.021104	75,421	1,592	74,625	1,186,337	15.73
71–72	0.022810	73,829	1,684	72,987	1,111,712	15.06
72–73	0.024564	72,145	1,772	71,259	1,038,724	14.40
73–74	0.026551	70,373	1,869	69,439	967,465	13.75
74–75	0.029074	68,504	1,992	67,509	898,027	13.11
75–76	0.031534	66,513	2,097	65,464	830,518	12.49
76–77	0.034333	64,415	2,212	63,310	765,054	11.88
77–78	0.037383	62,204	2,325	61,041	701,745	11.28
78–79	0.041154	59,878	2,464	58,646	640,704	10.70
79–80	0.044676	57,414	2,565	56,132	582,057	10.14
80–81	0.049856	54,849	2,735	53,482	525,926	9.59
81–82	0.054796	52,115	2,856	50,687	472,444	9.07
82–83	0.059604	49,259	2,936	47,791	421,757	8.56
83–84	0.065450	46,323	3,032	44,807	373,966	8.07
84–85	0.072069	43,291	3,120	41,731	329,159	7.60
85–86	0.079268	40,171	3,184	38,579	287,428	7.16
86–87	0.087082	36,987	3,221	35,376	248,849	6.73
87–88	0.095540	33,766	3,226	32,153	213,473	6.32
88–89	0.104672	30,540	3,197	28,942	181,320	5.94
89–90	0.114502	27,343	3,131	25,778	152,379	5.57
90–91	0.125049	24,212	3,028	22,699	126,601	5.23
91–92	0.136328	21,185	2,888	19,741	103,902	4.90
92–93	0.148345	18,297	2,714	16,940	84,162	4.60
93–94	0.161100	15,582	2,510	14,327	67,222	4.31
94–95	0.174583	13,072	2,282	11,931	52,895	4.05
95–96	0.188772	10,790	2,037	9,772	40,964	3.80
96–97	0.203637	8,753	1,782	7,862	31,192	3.56
97–98	0.219137	6,971	1,528	6,207	23,330	3.35
98–99	0.235216	5,443	1,280	4,803	17,124	3.15
99–100	0.251812	4,163	1,048	3,639	12,321	2.96
100–101	0.268849	3,115	837	2,696	8,682	2.79
101–102	0.286244	2,277	652	1,951	5,986	2.63
102–103	0.303904	1,625	494	1,378	4,035	2.48
103–104	0.321732	1,131	364	949	2,656	2.35
104–105	0.339626	767	261	637	1,707	2.22
105–106	0.357485	507	181	416	1,070	2.11
106–107	0.375205	326	122	265	654	2.01
107–108	0.392688	203	80	163	389	1.91
108–109	0.409841	124	51	98	226	1.83
109–110	0.426576	73	31	57	127	1.75

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 10. Life table for the Hispanic population: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table10.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table10.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002173	100,000	217	274	8,158,533	81.59
1–7.....	0.000731	99,783	73	1,640	8,158,259	81.76
7–28.....	0.000689	99,710	69	5,735	8,156,619	81.80
28–365.....	0.001610	99,641	160	91,923	8,150,885	81.80
Years						
0–1.....	0.005203	100,000	519	99,572	8,158,533	81.59
1–2.....	0.000377	99,481	37	99,462	8,058,961	81.01
2–3.....	0.000244	99,443	24	99,431	7,959,499	80.04
3–4.....	0.000184	99,419	18	99,410	7,860,068	79.06
4–5.....	0.000147	99,401	15	99,393	7,760,658	78.08
5–6.....	0.000128	99,386	13	99,380	7,661,265	77.09
6–7.....	0.000112	99,373	11	99,368	7,561,885	76.10
7–8.....	0.000099	99,362	10	99,357	7,462,518	75.10
8–9.....	0.000087	99,352	9	99,348	7,363,160	74.11
9–10.....	0.000078	99,344	8	99,340	7,263,812	73.12
10–11.....	0.000073	99,336	7	99,332	7,164,472	72.12
11–12.....	0.000079	99,329	8	99,325	7,065,140	71.13
12–13.....	0.000104	99,321	10	99,316	6,965,815	70.13
13–14.....	0.000152	99,311	15	99,303	6,866,499	69.14
14–15.....	0.000216	99,295	21	99,285	6,767,196	68.15
15–16.....	0.000286	99,274	28	99,260	6,667,912	67.17
16–17.....	0.000353	99,246	35	99,228	6,568,652	66.19
17–18.....	0.000418	99,211	41	99,190	6,469,424	65.21
18–19.....	0.000477	99,169	47	99,146	6,370,234	64.24
19–20.....	0.000533	99,122	53	99,095	6,271,089	63.27
20–21.....	0.000592	99,069	59	99,040	6,171,993	62.30
21–22.....	0.000650	99,010	64	98,978	6,072,953	61.34
22–23.....	0.000691	98,946	68	98,912	5,973,975	60.38
23–24.....	0.000711	98,878	70	98,842	5,875,063	59.42
24–25.....	0.000713	98,807	70	98,772	5,776,221	58.46
25–26.....	0.000709	98,737	70	98,702	5,677,449	57.50
26–27.....	0.000708	98,667	70	98,632	5,578,747	56.54
27–28.....	0.000710	98,597	70	98,562	5,480,115	55.58
28–29.....	0.000720	98,527	71	98,491	5,381,553	54.62
29–30.....	0.000736	98,456	72	98,420	5,283,062	53.66
30–31.....	0.000754	98,384	74	98,346	5,184,642	52.70
31–32.....	0.000772	98,309	76	98,271	5,086,296	51.74
32–33.....	0.000793	98,233	78	98,195	4,988,024	50.78
33–34.....	0.000815	98,156	80	98,116	4,889,830	49.82
34–35.....	0.000842	98,076	83	98,034	4,791,714	48.86
35–36.....	0.000873	97,993	86	97,950	4,693,680	47.90
36–37.....	0.000913	97,907	89	97,863	4,595,730	46.94
37–38.....	0.000963	97,818	94	97,771	4,497,867	45.98
38–39.....	0.001026	97,724	100	97,674	4,400,096	45.03
39–40.....	0.001102	97,624	108	97,570	4,302,422	44.07
40–41.....	0.001187	97,516	116	97,458	4,204,852	43.12
41–42.....	0.001285	97,400	125	97,338	4,107,394	42.17
42–43.....	0.001409	97,275	137	97,207	4,010,056	41.22
43–44.....	0.001564	97,138	152	97,062	3,912,850	40.28
44–45.....	0.001745	96,986	169	96,901	3,815,788	39.34
45–46.....	0.001943	96,817	188	96,723	3,718,886	38.41
46–47.....	0.002151	96,629	208	96,525	3,622,164	37.49
47–48.....	0.002369	96,421	228	96,307	3,525,639	36.57
48–49.....	0.002596	96,192	250	96,068	3,429,332	35.65
49–50.....	0.002836	95,943	272	95,807	3,333,265	34.74
50–51.....	0.003098	95,671	296	95,522	3,237,458	33.84
51–52.....	0.003382	95,374	323	95,213	3,141,936	32.94
52–53.....	0.003682	95,052	350	94,877	3,046,723	32.05

**Table 10. Life table for the Hispanic population: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table10.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table10.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.003996	94,702	378	94,512	2,951,846	31.17
54–55	0.004329	94,323	408	94,119	2,857,334	30.29
55–56	0.004689	93,915	440	93,695	2,763,215	29.42
56–57	0.005086	93,475	475	93,237	2,669,520	28.56
57–58	0.005514	92,999	513	92,743	2,576,283	27.70
58–59	0.005972	92,486	552	92,210	2,483,540	26.85
59–60	0.006454	91,934	593	91,637	2,391,330	26.01
60–61	0.006978	91,341	637	91,022	2,299,693	25.18
61–62	0.007538	90,703	684	90,361	2,208,671	24.35
62–63	0.008114	90,020	730	89,654	2,118,309	23.53
63–64	0.008704	89,289	777	88,901	2,028,655	22.72
64–65	0.009332	88,512	826	88,099	1,939,754	21.92
65–66	0.010030	87,686	880	87,246	1,851,655	21.12
66–67	0.010832	86,807	940	86,336	1,764,409	20.33
67–68	0.011742	85,866	1,008	85,362	1,678,073	19.54
68–69	0.012756	84,858	1,082	84,317	1,592,711	18.77
69–70	0.013861	83,776	1,161	83,195	1,508,394	18.01
70–71	0.015037	82,614	1,242	81,993	1,425,199	17.25
71–72	0.016330	81,372	1,329	80,708	1,343,206	16.51
72–73	0.017806	80,043	1,425	79,331	1,262,498	15.77
73–74	0.019538	78,618	1,536	77,850	1,183,167	15.05
74–75	0.021543	77,082	1,661	76,252	1,105,317	14.34
75–76	0.023709	75,421	1,788	74,527	1,029,066	13.64
76–77	0.026068	73,633	1,919	72,673	954,538	12.96
77–78	0.028797	71,714	2,065	70,681	881,865	12.30
78–79	0.031953	69,649	2,225	68,536	811,184	11.65
79–80	0.035395	67,423	2,386	66,230	742,648	11.02
80–81	0.039175	65,037	2,548	63,763	676,418	10.40
81–82	0.043220	62,489	2,701	61,138	612,655	9.80
82–83	0.047969	59,788	2,868	58,354	551,517	9.23
83–84	0.053116	56,920	3,023	55,408	493,163	8.66
84–85	0.059418	53,897	3,202	52,296	437,754	8.12
85–86	0.066418	50,694	3,367	49,011	385,459	7.60
86–87	0.073952	47,327	3,500	45,577	336,448	7.11
87–88	0.082628	43,827	3,621	42,017	290,871	6.64
88–89	0.092294	40,206	3,711	38,351	248,854	6.19
89–90	0.102866	36,495	3,754	34,618	210,503	5.77
90–91	0.114378	32,741	3,745	30,869	175,885	5.37
91–92	0.126850	28,996	3,678	27,157	145,017	5.00
92–93	0.140290	25,318	3,552	23,542	117,859	4.66
93–94	0.154688	21,766	3,367	20,083	94,317	4.33
94–95	0.170019	18,399	3,128	16,835	74,235	4.04
95–96	0.186234	15,271	2,844	13,849	57,399	3.76
96–97	0.203265	12,427	2,526	11,164	43,550	3.50
97–98	0.221021	9,901	2,188	8,807	32,386	3.27
98–99	0.239392	7,713	1,846	6,790	23,580	3.06
99–100	0.258248	5,866	1,515	5,109	16,790	2.86
100–101	0.277445	4,351	1,207	3,748	11,681	2.68
101–102	0.296828	3,144	933	2,677	7,933	2.52
102–103	0.316234	2,211	699	1,861	5,256	2.38
103–104	0.335501	1,512	507	1,258	3,395	2.25
104–105	0.354470	1,005	356	826	2,137	2.13
105–106	0.372993	648	242	528	1,310	2.02
106–107	0.390935	407	159	327	782	1.93
107–108	0.408179	248	101	197	455	1.84
108–109	0.424630	147	62	115	258	1.76
109–110	0.440210	84	37	66	143	1.69

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 11. Life table for Hispanic males: United States, 2009–2011**

Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table11.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table11.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002347	100,000	235	274	7,882,852	78.83
1–7.....	0.000773	99,765	77	1,639	7,882,578	79.01
7–28.....	0.000724	99,688	72	5,733	7,880,939	79.06
28–365.....	0.001763	99,616	176	91,893	7,875,205	79.06
Years						
0–1.....	0.005607	100,000	560	99,540	7,882,852	78.83
1–2.....	0.000373	99,440	37	99,422	7,783,312	78.27
2–3.....	0.000267	99,403	27	99,390	7,683,891	77.30
3–4.....	0.000199	99,377	20	99,367	7,584,501	76.32
4–5.....	0.000164	99,357	16	99,349	7,485,134	75.34
5–6.....	0.000138	99,341	14	99,334	7,385,785	74.35
6–7.....	0.000120	99,327	12	99,321	7,286,451	73.36
7–8.....	0.000106	99,315	11	99,310	7,187,130	72.37
8–9.....	0.000090	99,305	9	99,300	7,087,820	71.37
9–10.....	0.000074	99,296	7	99,292	6,988,520	70.38
10–11.....	0.000064	99,288	6	99,285	6,889,228	69.39
11–12.....	0.000070	99,282	7	99,278	6,789,943	68.39
12–13.....	0.000106	99,275	10	99,270	6,690,665	67.40
13–14.....	0.000179	99,265	18	99,256	6,591,395	66.40
14–15.....	0.000278	99,247	28	99,233	6,492,139	65.41
15–16.....	0.000385	99,219	38	99,200	6,392,906	64.43
16–17.....	0.000488	99,181	48	99,157	6,293,706	63.46
17–18.....	0.000585	99,133	58	99,104	6,194,549	62.49
18–19.....	0.000674	99,075	67	99,041	6,095,446	61.52
19–20.....	0.000755	99,008	75	98,971	5,996,404	60.56
20–21.....	0.000838	98,933	83	98,892	5,897,434	59.61
21–22.....	0.000919	98,850	91	98,805	5,798,542	58.66
22–23.....	0.000977	98,759	97	98,711	5,699,737	57.71
23–24.....	0.001007	98,663	99	98,613	5,601,026	56.77
24–25.....	0.001014	98,564	100	98,514	5,502,413	55.83
25–26.....	0.001013	98,464	100	98,414	5,403,899	54.88
26–27.....	0.001014	98,364	100	98,314	5,305,486	53.94
27–28.....	0.001018	98,264	100	98,214	5,207,172	52.99
28–29.....	0.001029	98,164	101	98,114	5,108,958	52.05
29–30.....	0.001047	98,063	103	98,012	5,010,844	51.10
30–31.....	0.001067	97,960	105	97,908	4,912,832	50.15
31–32.....	0.001087	97,856	106	97,803	4,814,924	49.20
32–33.....	0.001111	97,749	109	97,695	4,717,122	48.26
33–34.....	0.001138	97,641	111	97,585	4,619,427	47.31
34–35.....	0.001170	97,530	114	97,473	4,521,842	46.36
35–36.....	0.001210	97,415	118	97,357	4,424,369	45.42
36–37.....	0.001258	97,298	122	97,236	4,327,013	44.47
37–38.....	0.001319	97,175	128	97,111	4,229,776	43.53
38–39.....	0.001396	97,047	135	96,979	4,132,665	42.58
39–40.....	0.001488	96,912	144	96,840	4,035,685	41.64
40–41.....	0.001591	96,767	154	96,690	3,938,846	40.70
41–42.....	0.001710	96,613	165	96,531	3,842,156	39.77
42–43.....	0.001856	96,448	179	96,359	3,745,625	38.84
43–44.....	0.002036	96,269	196	96,171	3,649,266	37.91
44–45.....	0.002246	96,073	216	95,965	3,553,095	36.98
45–46.....	0.002476	95,857	237	95,739	3,457,130	36.07
46–47.....	0.002722	95,620	260	95,490	3,361,391	35.15
47–48.....	0.002991	95,360	285	95,217	3,265,901	34.25
48–49.....	0.003286	95,075	312	94,918	3,170,684	33.35
49–50.....	0.003608	94,762	342	94,591	3,075,765	32.46
50–51.....	0.003963	94,420	374	94,233	2,981,174	31.57
51–52.....	0.004347	94,046	409	93,842	2,886,941	30.70
52–53.....	0.004756	93,637	445	93,415	2,793,099	29.83

**Table 11. Life table for Hispanic males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table11.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table11.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.005188	93,192	484	92,950	2,699,685	28.97
54–55	0.005648	92,708	524	92,447	2,606,734	28.12
55–56	0.006155	92,185	567	91,901	2,514,288	27.27
56–57	0.006712	91,617	615	91,310	2,422,387	26.44
57–58	0.007290	91,002	663	90,671	2,331,077	25.62
58–59	0.007867	90,339	711	89,984	2,240,406	24.80
59–60	0.008443	89,628	757	89,250	2,150,423	23.99
60–61	0.009048	88,872	804	88,469	2,061,173	23.19
61–62	0.009704	88,067	855	87,640	1,972,703	22.40
62–63	0.010404	87,213	907	86,759	1,885,063	21.61
63–64	0.011171	86,305	964	85,823	1,798,304	20.84
64–65	0.012032	85,341	1,027	84,828	1,712,481	20.07
65–66	0.013002	84,314	1,096	83,766	1,627,653	19.30
66–67	0.014097	83,218	1,173	82,632	1,543,886	18.55
67–68	0.015330	82,045	1,258	81,416	1,461,255	17.81
68–69	0.016673	80,787	1,347	80,114	1,379,839	17.08
69–70	0.018099	79,440	1,438	78,721	1,299,725	16.36
70–71	0.019601	78,003	1,529	77,238	1,221,003	15.65
71–72	0.021227	76,474	1,623	75,662	1,143,765	14.96
72–73	0.023021	74,850	1,723	73,989	1,068,103	14.27
73–74	0.025063	73,127	1,833	72,211	994,114	13.59
74–75	0.027382	71,294	1,952	70,318	921,904	12.93
75–76	0.029862	69,342	2,071	68,307	851,585	12.28
76–77	0.032540	67,272	2,189	66,177	783,278	11.64
77–78	0.035698	65,083	2,323	63,921	717,101	11.02
78–79	0.039472	62,759	2,477	61,521	653,181	10.41
79–80	0.043636	60,282	2,630	58,967	591,660	9.81
80–81	0.048621	57,652	2,803	56,250	532,693	9.24
81–82	0.053992	54,848	2,961	53,368	476,443	8.69
82–83	0.059769	51,887	3,101	50,336	423,075	8.15
83–84	0.065939	48,786	3,217	47,177	372,739	7.64
84–85	0.073438	45,569	3,347	43,896	325,562	7.14
85–86	0.081787	42,222	3,453	40,496	281,666	6.67
86–87	0.090824	38,769	3,521	37,009	241,170	6.22
87–88	0.101896	35,248	3,592	33,452	204,161	5.79
88–89	0.113394	31,656	3,590	29,862	170,709	5.39
89–90	0.125868	28,067	3,533	26,300	140,848	5.02
90–91	0.139329	24,534	3,418	22,825	114,547	4.67
91–92	0.153770	21,116	3,247	19,492	91,722	4.34
92–93	0.169169	17,869	3,023	16,357	72,230	4.04
93–94	0.185479	14,846	2,754	13,469	55,873	3.76
94–95	0.202635	12,092	2,450	10,867	42,404	3.51
95–96	0.220548	9,642	2,127	8,579	31,536	3.27
96–97	0.239108	7,515	1,797	6,617	22,958	3.05
97–98	0.258186	5,718	1,476	4,980	16,341	2.86
98–99	0.277636	4,242	1,178	3,653	11,360	2.68
99–100	0.297300	3,064	911	2,609	7,707	2.52
100–101	0.317011	2,153	683	1,812	5,098	2.37
101–102	0.336604	1,471	495	1,223	3,286	2.23
102–103	0.355914	976	347	802	2,063	2.11
103–104	0.374788	628	236	511	1,261	2.01
104–105	0.393084	393	154	316	751	1.91
105–106	0.410682	238	98	189	435	1.82
106–107	0.427478	141	60	110	246	1.75
107–108	0.443392	80	36	63	135	1.68
108–109	0.458368	45	21	35	72	1.62
109–110	0.472368	24	11	19	38	1.56

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 12. Life table for Hispanic females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table12.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table12.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.001991	100,000	199	274	8,405,225	84.05
1–7.....	0.000687	99,801	69	1,640	8,404,951	84.22
7–28.....	0.000653	99,732	65	5,736	8,403,311	84.26
28–365.....	0.001450	99,667	145	91,955	8,397,575	84.26
Years						
0–1.....	0.004781	100,000	477	99,605	8,405,225	84.05
1–2.....	0.000374	99,523	37	99,504	8,305,621	83.45
2–3.....	0.000216	99,485	22	99,475	8,206,117	82.49
3–4.....	0.000164	99,464	16	99,456	8,106,642	81.50
4–5.....	0.000126	99,448	12	99,441	8,007,186	80.52
5–6.....	0.000116	99,435	12	99,429	7,907,745	79.53
6–7.....	0.000101	99,424	10	99,419	7,808,315	78.54
7–8.....	0.000090	99,414	9	99,409	7,708,897	77.54
8–9.....	0.000083	99,405	8	99,401	7,609,488	76.55
9–10.....	0.000080	99,396	8	99,392	7,510,087	75.56
10–11.....	0.000080	99,389	8	99,385	7,410,695	74.56
11–12.....	0.000086	99,381	9	99,376	7,311,310	73.57
12–13.....	0.000100	99,372	10	99,367	7,211,934	72.58
13–14.....	0.000122	99,362	12	99,356	7,112,567	71.58
14–15.....	0.000149	99,350	15	99,343	7,013,211	70.59
15–16.....	0.000179	99,335	18	99,326	6,913,868	69.60
16–17.....	0.000209	99,317	21	99,307	6,814,542	68.61
17–18.....	0.000237	99,297	24	99,285	6,715,235	67.63
18–19.....	0.000262	99,273	26	99,260	6,615,950	66.64
19–20.....	0.000284	99,247	28	99,233	6,516,690	65.66
20–21.....	0.000308	99,219	31	99,203	6,417,458	64.68
21–22.....	0.000333	99,188	33	99,172	6,318,254	63.70
22–23.....	0.000351	99,155	35	99,138	6,219,082	62.72
23–24.....	0.000360	99,120	36	99,103	6,119,945	61.74
24–25.....	0.000362	99,085	36	99,067	6,020,842	60.76
25–26.....	0.000362	99,049	36	99,031	5,921,775	59.79
26–27.....	0.000364	99,013	36	98,995	5,822,744	58.81
27–28.....	0.000369	98,977	36	98,959	5,723,749	57.83
28–29.....	0.000379	98,941	37	98,922	5,624,791	56.85
29–30.....	0.000393	98,903	39	98,884	5,525,869	55.87
30–31.....	0.000410	98,864	41	98,844	5,426,985	54.89
31–32.....	0.000428	98,824	42	98,803	5,328,141	53.92
32–33.....	0.000448	98,781	44	98,759	5,229,339	52.94
33–34.....	0.000469	98,737	46	98,714	5,130,579	51.96
34–35.....	0.000493	98,691	49	98,667	5,031,865	50.99
35–36.....	0.000522	98,642	51	98,616	4,933,199	50.01
36–37.....	0.000557	98,591	55	98,563	4,834,582	49.04
37–38.....	0.000598	98,536	59	98,506	4,736,019	48.06
38–39.....	0.000647	98,477	64	98,445	4,637,513	47.09
39–40.....	0.000705	98,413	69	98,379	4,539,068	46.12
40–41.....	0.000769	98,344	76	98,306	4,440,689	45.15
41–42.....	0.000843	98,268	83	98,227	4,342,383	44.19
42–43.....	0.000942	98,185	93	98,139	4,244,156	43.23
43–44.....	0.001072	98,093	105	98,040	4,146,017	42.27
44–45.....	0.001224	97,988	120	97,928	4,047,977	41.31
45–46.....	0.001391	97,868	136	97,800	3,950,049	40.36
46–47.....	0.001562	97,732	153	97,655	3,852,249	39.42
47–48.....	0.001730	97,579	169	97,495	3,754,594	38.48
48–49.....	0.001892	97,410	184	97,318	3,657,100	37.54
49–50.....	0.002052	97,226	200	97,126	3,559,782	36.61
50–51.....	0.002225	97,026	216	96,918	3,462,655	35.69
51–52.....	0.002416	96,810	234	96,694	3,365,737	34.77
52–53.....	0.002615	96,577	253	96,450	3,269,044	33.85

**Table 12. Life table for Hispanic females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table12.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table12.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.002825	96,324	272	96,188	3,172,593	32.94
54–55	0.003047	96,052	293	95,906	3,076,405	32.03
55–56	0.003284	95,759	314	95,602	2,980,500	31.12
56–57	0.003547	95,445	339	95,276	2,884,898	30.23
57–58	0.003856	95,106	367	94,923	2,789,622	29.33
58–59	0.004220	94,740	400	94,540	2,694,699	28.44
59–60	0.004632	94,340	437	94,121	2,600,160	27.56
60–61	0.005096	93,903	479	93,664	2,506,038	26.69
61–62	0.005588	93,424	522	93,163	2,412,375	25.82
62–63	0.006075	92,902	564	92,620	2,319,211	24.96
63–64	0.006539	92,338	604	92,036	2,226,591	24.11
64–65	0.007003	91,734	642	91,413	2,134,555	23.27
65–66	0.007520	91,092	685	90,749	2,043,142	22.43
66–67	0.008128	90,407	735	90,039	1,952,393	21.60
67–68	0.008823	89,672	791	89,276	1,862,354	20.77
68–69	0.009610	88,881	854	88,454	1,773,078	19.95
69–70	0.010487	88,027	923	87,565	1,684,624	19.14
70–71	0.011431	87,103	996	86,606	1,597,059	18.34
71–72	0.012492	86,108	1,076	85,570	1,510,453	17.54
72–73	0.013757	85,032	1,170	84,447	1,424,884	16.76
73–74	0.015302	83,862	1,283	83,221	1,340,436	15.98
74–75	0.017135	82,579	1,415	81,872	1,257,216	15.22
75–76	0.019136	81,164	1,553	80,387	1,175,344	14.48
76–77	0.021321	79,611	1,697	78,762	1,094,957	13.75
77–78	0.023822	77,914	1,856	76,986	1,016,194	13.04
78–79	0.026653	76,058	2,027	75,044	939,209	12.35
79–80	0.029756	74,030	2,203	72,929	864,165	11.67
80–81	0.032927	71,827	2,365	70,645	791,236	11.02
81–82	0.036384	69,462	2,527	68,199	720,591	10.37
82–83	0.040787	66,935	2,730	65,570	652,392	9.75
83–84	0.045670	64,205	2,932	62,739	586,822	9.14
84–85	0.051701	61,273	3,168	59,689	524,084	8.55
85–86	0.058449	58,105	3,396	56,407	464,395	7.99
86–87	0.065712	54,709	3,595	52,911	407,988	7.46
87–88	0.073830	51,114	3,774	49,227	355,077	6.95
88–89	0.083292	47,340	3,943	45,368	305,850	6.46
89–90	0.093754	43,397	4,069	41,363	260,481	6.00
90–91	0.105264	39,328	4,140	37,258	219,119	5.57
91–92	0.117863	35,188	4,147	33,115	181,860	5.17
92–93	0.131575	31,041	4,084	28,999	148,746	4.79
93–94	0.146404	26,957	3,947	24,984	119,747	4.44
94–95	0.162335	23,010	3,735	21,143	94,763	4.12
95–96	0.179325	19,275	3,456	17,547	73,621	3.82
96–97	0.197307	15,818	3,121	14,258	56,074	3.54
97–98	0.216184	12,697	2,745	11,325	41,816	3.29
98–99	0.235832	9,952	2,347	8,779	30,491	3.06
99–100	0.256102	7,605	1,948	6,631	21,713	2.85
100–101	0.276823	5,658	1,566	4,874	15,081	2.67
101–102	0.297807	4,091	1,218	3,482	10,207	2.49
102–103	0.318860	2,873	916	2,415	6,725	2.34
103–104	0.339781	1,957	665	1,624	4,310	2.20
104–105	0.360378	1,292	466	1,059	2,685	2.08
105–106	0.380467	826	314	669	1,626	1.97
106–107	0.399887	512	205	410	957	1.87
107–108	0.418497	307	129	243	547	1.78
108–109	0.436182	179	78	140	304	1.70
109–110	0.452856	101	46	78	165	1.63

SOURCE: NCHS, National Vital Statistics System, Mortality.



**Table 13. Life table for the non-Hispanic white population: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table13.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table13.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1	0.001951	100,000	195	274	7,870,711	78.71
1–7	0.000684	99,805	68	1,640	7,870,437	78.86
7–28	0.000720	99,737	72	5,736	7,868,797	78.90
28–365	0.001827	99,665	182	91,935	7,863,061	78.90
Years						
0–1	0.005183	100,000	517	99,585	7,870,711	78.71
1–2	0.000368	99,483	37	99,464	7,771,126	78.12
2–3	0.000245	99,446	24	99,434	7,671,662	77.14
3–4	0.000202	99,422	20	99,412	7,572,228	76.16
4–5	0.000150	99,402	15	99,394	7,472,816	75.18
5–6	0.000140	99,387	14	99,380	7,373,422	74.19
6–7	0.000125	99,373	12	99,367	7,274,042	73.20
7–8	0.000113	99,360	11	99,355	7,174,676	72.21
8–9	0.000099	99,349	10	99,344	7,075,321	71.22
9–10	0.000085	99,339	8	99,335	6,975,977	70.22
10–11	0.000077	99,331	8	99,327	6,876,642	69.23
11–12	0.000082	99,323	8	99,319	6,777,315	68.23
12–13	0.000110	99,315	11	99,310	6,677,996	67.24
13–14	0.000166	99,304	17	99,296	6,578,686	66.25
14–15	0.000242	99,288	24	99,276	6,479,390	65.26
15–16	0.000322	99,264	32	99,248	6,380,115	64.27
16–17	0.000398	99,232	40	99,212	6,280,867	63.29
17–18	0.000478	99,192	47	99,168	6,181,655	62.32
18–19	0.000559	99,145	55	99,117	6,082,487	61.35
19–20	0.000642	99,089	64	99,058	5,983,370	60.38
20–21	0.000730	99,026	72	98,990	5,884,312	59.42
21–22	0.000814	98,953	81	98,913	5,785,322	58.47
22–23	0.000879	98,873	87	98,829	5,686,409	57.51
23–24	0.000917	98,786	91	98,741	5,587,580	56.56
24–25	0.000936	98,695	92	98,649	5,488,839	55.61
25–26	0.000948	98,603	94	98,556	5,390,190	54.67
26–27	0.000965	98,510	95	98,462	5,291,634	53.72
27–28	0.000984	98,414	97	98,366	5,193,171	52.77
28–29	0.001009	98,318	99	98,268	5,094,805	51.82
29–30	0.001040	98,218	102	98,167	4,996,537	50.87
30–31	0.001079	98,116	106	98,063	4,898,370	49.92
31–32	0.001120	98,010	110	97,956	4,800,307	48.98
32–33	0.001161	97,901	114	97,844	4,702,351	48.03
33–34	0.001198	97,787	117	97,728	4,604,507	47.09
34–35	0.001236	97,670	121	97,609	4,506,779	46.14
35–36	0.001285	97,549	125	97,486	4,409,170	45.20
36–37	0.001350	97,424	132	97,358	4,311,683	44.26
37–38	0.001428	97,292	139	97,223	4,214,325	43.32
38–39	0.001520	97,153	148	97,080	4,117,102	42.38
39–40	0.001630	97,006	158	96,927	4,020,023	41.44
40–41	0.001751	96,848	170	96,763	3,923,096	40.51
41–42	0.001892	96,678	183	96,587	3,826,333	39.58
42–43	0.002066	96,495	199	96,395	3,729,747	38.65
43–44	0.002271	96,296	219	96,186	3,633,351	37.73
44–45	0.002498	96,077	240	95,957	3,537,165	36.82
45–46	0.002725	95,837	261	95,706	3,441,208	35.91
46–47	0.002956	95,576	283	95,435	3,345,502	35.00
47–48	0.003212	95,293	306	95,140	3,250,067	34.11
48–49	0.003504	94,987	333	94,821	3,154,927	33.21
49–50	0.003827	94,654	362	94,473	3,060,106	32.33
50–51	0.004173	94,292	394	94,095	2,965,633	31.45
51–52	0.004526	93,899	425	93,686	2,871,538	30.58
52–53	0.004880	93,474	456	93,245	2,777,852	29.72

**Table 13. Life table for the non-Hispanic white population: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table13.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table13.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54.....	0.005233	93,017	487	92,774	2,684,606	28.86
54–55.....	0.005598	92,531	518	92,272	2,591,832	28.01
55–56.....	0.005989	92,013	551	91,737	2,499,561	27.17
56–57.....	0.006422	91,462	587	91,168	2,407,824	26.33
57–58.....	0.006902	90,874	627	90,561	2,316,656	25.49
58–59.....	0.007432	90,247	671	89,912	2,226,095	24.67
59–60.....	0.008000	89,576	717	89,218	2,136,184	23.85
60–61.....	0.008606	88,860	765	88,477	2,046,966	23.04
61–62.....	0.009249	88,095	815	87,687	1,958,488	22.23
62–63.....	0.009942	87,280	868	86,846	1,870,801	21.43
63–64.....	0.010712	86,412	926	85,950	1,783,955	20.64
64–65.....	0.011590	85,487	991	84,991	1,698,005	19.86
65–66.....	0.012625	84,496	1,067	83,963	1,613,014	19.09
66–67.....	0.013814	83,429	1,152	82,853	1,529,051	18.33
67–68.....	0.015090	82,277	1,242	81,656	1,446,198	17.58
68–69.....	0.016421	81,035	1,331	80,370	1,364,542	16.84
69–70.....	0.017847	79,705	1,422	78,993	1,284,172	16.11
70–71.....	0.019459	78,282	1,523	77,520	1,205,179	15.40
71–72.....	0.021276	76,759	1,633	75,942	1,127,659	14.69
72–73.....	0.023355	75,126	1,755	74,248	1,051,716	14.00
73–74.....	0.025638	73,371	1,881	72,431	977,468	13.32
74–75.....	0.028183	71,490	2,015	70,483	905,038	12.66
75–76.....	0.030860	69,475	2,144	68,403	834,555	12.01
76–77.....	0.033827	67,331	2,278	66,192	766,152	11.38
77–78.....	0.037341	65,054	2,429	63,839	699,959	10.76
78–79.....	0.041344	62,624	2,589	61,330	636,121	10.16
79–80.....	0.045644	60,035	2,740	58,665	574,791	9.57
80–81.....	0.050514	57,295	2,894	55,848	516,126	9.01
81–82.....	0.055750	54,401	3,033	52,884	460,278	8.46
82–83.....	0.061837	51,368	3,176	49,780	407,393	7.93
83–84.....	0.068419	48,192	3,297	46,543	357,614	7.42
84–85.....	0.076454	44,894	3,432	43,178	311,071	6.93
85–86.....	0.085353	41,462	3,539	39,693	267,893	6.46
86–87.....	0.094894	37,923	3,599	36,124	228,200	6.02
87–88.....	0.105835	34,324	3,633	32,508	192,076	5.60
88–89.....	0.117966	30,692	3,621	28,881	159,568	5.20
89–90.....	0.131162	27,071	3,551	25,296	130,687	4.83
90–91.....	0.145443	23,520	3,421	21,810	105,391	4.48
91–92.....	0.160811	20,100	3,232	18,483	83,581	4.16
92–93.....	0.177252	16,867	2,990	15,372	65,098	3.86
93–94.....	0.194726	13,878	2,702	12,526	49,725	3.58
94–95.....	0.213173	11,175	2,382	9,984	37,199	3.33
95–96.....	0.232506	8,793	2,044	7,771	27,215	3.10
96–97.....	0.252616	6,749	1,705	5,896	19,444	2.88
97–98.....	0.273370	5,044	1,379	4,354	13,548	2.69
98–99.....	0.294616	3,665	1,080	3,125	9,194	2.51
99–100.....	0.316186	2,585	817	2,176	6,068	2.35
100–101.....	0.337900	1,768	597	1,469	3,892	2.20
101–102.....	0.359576	1,170	421	960	2,423	2.07
102–103.....	0.381031	750	286	607	1,463	1.95
103–104.....	0.402090	464	187	371	856	1.85
104–105.....	0.422591	277	117	219	485	1.75
105–106.....	0.442389	160	71	125	267	1.66
106–107.....	0.461362	89	41	69	142	1.59
107–108.....	0.479409	48	23	37	73	1.52
108–109.....	0.496455	25	12	19	37	1.46
109–110.....	0.512448	13	6	9	18	1.41

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 14. Life table for non-Hispanic white males: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table14xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table14xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.002089	100,000	209	274	7,630,227	76.30
1–7.....	0.000748	99,791	75	1,640	7,629,953	76.46
7–28.....	0.000773	99,717	77	5,735	7,628,313	76.50
28–365.....	0.002045	99,639	204	91,902	7,622,579	76.50
Years						
0–1.....	0.005654	100,000	564	99,550	7,630,227	76.30
1–2.....	0.000435	99,436	43	99,414	7,530,677	75.73
2–3.....	0.000305	99,392	30	99,377	7,431,263	74.77
3–4.....	0.000255	99,362	25	99,349	7,331,886	73.79
4–5.....	0.000178	99,337	18	99,328	7,232,536	72.81
5–6.....	0.000172	99,319	17	99,311	7,133,208	71.82
6–7.....	0.000153	99,302	15	99,294	7,033,898	70.83
7–8.....	0.000136	99,287	14	99,280	6,934,603	69.84
8–9.....	0.000119	99,273	12	99,267	6,835,323	68.85
9–10.....	0.000101	99,262	10	99,257	6,736,056	67.86
10–11.....	0.000091	99,251	9	99,247	6,636,799	66.87
11–12.....	0.000099	99,242	10	99,238	6,537,552	65.87
12–13.....	0.000138	99,233	14	99,226	6,438,315	64.88
13–14.....	0.000213	99,219	21	99,208	6,339,089	63.89
14–15.....	0.000315	99,198	31	99,182	6,239,881	62.90
15–16.....	0.000420	99,167	42	99,146	6,140,699	61.92
16–17.....	0.000522	99,125	52	99,099	6,041,553	60.95
17–18.....	0.000636	99,073	63	99,042	5,942,454	59.98
18–19.....	0.000764	99,010	76	98,972	5,843,412	59.02
19–20.....	0.000900	98,934	89	98,890	5,744,440	58.06
20–21.....	0.001047	98,845	104	98,794	5,645,550	57.11
21–22.....	0.001186	98,742	117	98,683	5,546,756	56.17
22–23.....	0.001289	98,625	127	98,561	5,448,073	55.24
23–24.....	0.001342	98,498	132	98,432	5,349,512	54.31
24–25.....	0.001356	98,365	133	98,299	5,251,080	53.38
25–26.....	0.001359	98,232	133	98,165	5,152,782	52.46
26–27.....	0.001368	98,099	134	98,032	5,054,616	51.53
27–28.....	0.001379	97,964	135	97,897	4,956,585	50.60
28–29.....	0.001398	97,829	137	97,761	4,858,688	49.66
29–30.....	0.001425	97,693	139	97,623	4,760,927	48.73
30–31.....	0.001458	97,553	142	97,482	4,663,304	47.80
31–32.....	0.001492	97,411	145	97,339	4,565,821	46.87
32–33.....	0.001527	97,266	149	97,192	4,468,483	45.94
33–34.....	0.001561	97,117	152	97,041	4,371,291	45.01
34–35.....	0.001598	96,966	155	96,888	4,274,250	44.08
35–36.....	0.001649	96,811	160	96,731	4,177,362	43.15
36–37.....	0.001720	96,651	166	96,568	4,080,631	42.22
37–38.....	0.001806	96,485	174	96,398	3,984,063	41.29
38–39.....	0.001910	96,311	184	96,219	3,887,665	40.37
39–40.....	0.002034	96,127	195	96,029	3,791,446	39.44
40–41.....	0.002173	95,931	208	95,827	3,695,417	38.52
41–42.....	0.002339	95,723	224	95,611	3,599,590	37.60
42–43.....	0.002546	95,499	243	95,377	3,503,980	36.69
43–44.....	0.002797	95,256	266	95,122	3,408,602	35.78
44–45.....	0.003076	94,989	292	94,843	3,313,480	34.88
45–46.....	0.003358	94,697	318	94,538	3,218,637	33.99
46–47.....	0.003648	94,379	344	94,207	3,124,099	33.10
47–48.....	0.003969	94,035	373	93,848	3,029,892	32.22
48–49.....	0.004336	93,661	406	93,458	2,936,044	31.35
49–50.....	0.004743	93,255	442	93,034	2,842,585	30.48
50–51.....	0.005174	92,813	480	92,573	2,749,551	29.62
51–52.....	0.005614	92,333	518	92,074	2,656,978	28.78
52–53.....	0.006072	91,815	557	91,536	2,564,905	27.94

**Table 14. Life table for non-Hispanic white males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table14.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table14.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.006549	91,257	598	90,958	2,473,369	27.10
54–55	0.007055	90,659	640	90,340	2,382,410	26.28
55–56	0.007603	90,020	684	89,678	2,292,071	25.46
56–57	0.008194	89,335	732	88,969	2,202,393	24.65
57–58	0.008815	88,603	781	88,213	2,113,424	23.85
58–59	0.009450	87,822	830	87,407	2,025,211	23.06
59–60	0.010095	86,992	878	86,553	1,937,803	22.28
60–61	0.010768	86,114	927	85,651	1,851,250	21.50
61–62	0.011487	85,187	979	84,698	1,765,599	20.73
62–63	0.012270	84,208	1,033	83,692	1,680,902	19.96
63–64	0.013159	83,175	1,095	82,628	1,597,210	19.20
64–65	0.014190	82,081	1,165	81,498	1,514,582	18.45
65–66	0.015402	80,916	1,246	80,293	1,433,084	17.71
66–67	0.016796	79,670	1,338	79,001	1,352,791	16.98
67–68	0.018291	78,331	1,433	77,615	1,273,790	16.26
68–69	0.019871	76,899	1,528	76,135	1,196,175	15.56
69–70	0.021540	75,371	1,624	74,559	1,120,041	14.86
70–71	0.023427	73,747	1,728	72,883	1,045,482	14.18
71–72	0.025541	72,019	1,839	71,100	972,598	13.50
72–73	0.027980	70,180	1,964	69,198	901,499	12.85
73–74	0.030680	68,216	2,093	67,170	832,300	12.20
74–75	0.033692	66,123	2,228	65,010	765,130	11.57
75–76	0.036863	63,896	2,355	62,718	700,121	10.96
76–77	0.040369	61,540	2,484	60,298	637,403	10.36
77–78	0.044469	59,056	2,626	57,743	577,105	9.77
78–79	0.049246	56,430	2,779	55,040	519,362	9.20
79–80	0.054254	53,651	2,911	52,195	464,322	8.65
80–81	0.060404	50,740	3,065	49,208	412,126	8.12
81–82	0.066790	47,675	3,184	46,083	362,919	7.61
82–83	0.073928	44,491	3,289	42,846	316,835	7.12
83–84	0.081537	41,202	3,359	39,522	273,989	6.65
84–85	0.090765	37,842	3,435	36,125	234,467	6.20
85–86	0.101010	34,408	3,475	32,670	198,342	5.76
86–87	0.112064	30,932	3,466	29,199	165,672	5.36
87–88	0.125553	27,466	3,448	25,741	136,473	4.97
88–89	0.139498	24,017	3,350	22,342	110,732	4.61
89–90	0.154550	20,667	3,194	19,070	88,390	4.28
90–91	0.170700	17,473	2,983	15,982	69,320	3.97
91–92	0.187918	14,490	2,723	13,129	53,338	3.68
92–93	0.206150	11,767	2,426	10,554	40,210	3.42
93–94	0.225320	9,341	2,105	8,289	29,655	3.17
94–95	0.245322	7,237	1,775	6,349	21,366	2.95
95–96	0.266030	5,461	1,453	4,735	15,017	2.75
96–97	0.287293	4,008	1,152	3,433	10,282	2.57
97–98	0.308946	2,857	883	2,416	6,850	2.40
98–99	0.330808	1,974	653	1,648	4,434	2.25
99–100	0.352691	1,321	466	1,088	2,786	2.11
100–101	0.374408	855	320	695	1,698	1.99
101–102	0.395777	535	212	429	1,003	1.88
102–103	0.416627	323	135	256	574	1.78
103–104	0.436804	189	82	147	318	1.69
104–105	0.456176	106	48	82	171	1.61
105–106	0.474632	58	27	44	89	1.54
106–107	0.492090	30	15	23	45	1.47
107–108	0.508489	15	8	11	22	1.42
108–109	0.523796	8	4	6	10	1.37
109–110	0.537996	4	2	3	5	1.33

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 15. Life table for non-Hispanic white females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table15.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table15.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.001806	100,000	181	274	8,106,214	81.06
1–7.....	0.000617	99,819	62	1,640	8,105,940	81.21
7–28.....	0.000665	99,758	66	5,738	8,104,300	81.24
28–365.....	0.001598	99,691	159	91,970	8,098,562	81.24
Years						
0–1.....	0.004686	100,000	468	99,622	8,106,214	81.06
1–2.....	0.000295	99,532	29	99,517	8,006,592	80.44
2–3.....	0.000184	99,503	18	99,494	7,907,074	79.47
3–4.....	0.000147	99,484	15	99,477	7,807,581	78.48
4–5.....	0.000120	99,470	12	99,464	7,708,103	77.49
5–6.....	0.000106	99,458	11	99,453	7,608,639	76.50
6–7.....	0.000096	99,447	10	99,443	7,509,187	75.51
7–8.....	0.000087	99,438	9	99,434	7,409,744	74.52
8–9.....	0.000078	99,429	8	99,425	7,310,310	73.52
9–10.....	0.000069	99,422	7	99,418	7,210,885	72.53
10–11.....	0.000063	99,415	6	99,412	7,111,467	71.53
11–12.....	0.000065	99,408	6	99,405	7,012,055	70.54
12–13.....	0.000082	99,402	8	99,398	6,912,650	69.54
13–14.....	0.000118	99,394	12	99,388	6,813,252	68.55
14–15.....	0.000166	99,382	16	99,374	6,713,865	67.56
15–16.....	0.000218	99,366	22	99,355	6,614,491	66.57
16–17.....	0.000267	99,344	27	99,331	6,515,136	65.58
17–18.....	0.000310	99,317	31	99,302	6,415,805	64.60
18–19.....	0.000344	99,287	34	99,270	6,316,503	63.62
19–20.....	0.000372	99,253	37	99,234	6,217,234	62.64
20–21.....	0.000400	99,216	40	99,196	6,118,000	61.66
21–22.....	0.000430	99,176	43	99,155	6,018,804	60.69
22–23.....	0.000458	99,133	45	99,111	5,919,649	59.71
23–24.....	0.000483	99,088	48	99,064	5,820,539	58.74
24–25.....	0.000507	99,040	50	99,015	5,721,475	57.77
25–26.....	0.000530	98,990	52	98,964	5,622,460	56.80
26–27.....	0.000555	98,937	55	98,910	5,523,496	55.83
27–28.....	0.000583	98,882	58	98,854	5,424,586	54.86
28–29.....	0.000614	98,825	61	98,794	5,325,732	53.89
29–30.....	0.000650	98,764	64	98,732	5,226,938	52.92
30–31.....	0.000693	98,700	68	98,666	5,128,206	51.96
31–32.....	0.000741	98,632	73	98,595	5,029,540	50.99
32–33.....	0.000788	98,558	78	98,520	4,930,945	50.03
33–34.....	0.000829	98,481	82	98,440	4,832,426	49.07
34–35.....	0.000869	98,399	85	98,356	4,733,986	48.11
35–36.....	0.000916	98,314	90	98,269	4,635,629	47.15
36–37.....	0.000976	98,224	96	98,176	4,537,361	46.19
37–38.....	0.001046	98,128	103	98,076	4,439,185	45.24
38–39.....	0.001127	98,025	111	97,970	4,341,108	44.29
39–40.....	0.001222	97,915	120	97,855	4,243,138	43.34
40–41.....	0.001325	97,795	130	97,730	4,145,284	42.39
41–42.....	0.001441	97,665	141	97,595	4,047,553	41.44
42–43.....	0.001581	97,525	154	97,448	3,949,958	40.50
43–44.....	0.001744	97,370	170	97,286	3,852,511	39.57
44–45.....	0.001920	97,201	187	97,107	3,755,225	38.63
45–46.....	0.002095	97,014	203	96,912	3,658,118	37.71
46–47.....	0.002270	96,811	220	96,701	3,561,206	36.79
47–48.....	0.002463	96,591	238	96,472	3,464,505	35.87
48–49.....	0.002682	96,353	258	96,224	3,368,033	34.96
49–50.....	0.002923	96,095	281	95,954	3,271,809	34.05
50–51.....	0.003187	95,814	305	95,661	3,175,854	33.15
51–52.....	0.003455	95,508	330	95,343	3,080,193	32.25
52–53.....	0.003710	95,178	353	95,002	2,984,850	31.36

**Table 15. Life table for non-Hispanic white females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table15.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table15.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54.....	0.003945	94,825	374	94,638	2,889,848	30.48
54–55.....	0.004177	94,451	395	94,254	2,795,210	29.59
55–56.....	0.004421	94,057	416	93,849	2,700,956	28.72
56–57.....	0.004708	93,641	441	93,421	2,607,107	27.84
57–58.....	0.005060	93,200	472	92,964	2,513,686	26.97
58–59.....	0.005493	92,728	509	92,474	2,420,722	26.11
59–60.....	0.005991	92,219	553	91,943	2,328,248	25.25
60–61.....	0.006536	91,667	599	91,367	2,236,305	24.40
61–62.....	0.007110	91,068	647	90,744	2,144,938	23.55
62–63.....	0.007723	90,420	698	90,071	2,054,194	22.72
63–64.....	0.008391	89,722	753	89,345	1,964,123	21.89
64–65.....	0.009143	88,969	813	88,562	1,874,778	21.07
65–66.....	0.010032	88,155	884	87,713	1,786,216	20.26
66–67.....	0.011057	87,271	965	86,788	1,698,503	19.46
67–68.....	0.012158	86,306	1,049	85,781	1,611,714	18.67
68–69.....	0.013289	85,257	1,133	84,690	1,525,933	17.90
69–70.....	0.014521	84,124	1,222	83,513	1,441,243	17.13
70–71.....	0.015916	82,902	1,319	82,242	1,357,730	16.38
71–72.....	0.017512	81,583	1,429	80,868	1,275,488	15.63
72–73.....	0.019323	80,154	1,549	79,380	1,194,619	14.90
73–74.....	0.021305	78,605	1,675	77,768	1,115,240	14.19
74–75.....	0.023527	76,930	1,810	76,025	1,037,472	13.49
75–76.....	0.025868	75,121	1,943	74,149	961,446	12.80
76–77.....	0.028488	73,177	2,085	72,135	887,297	12.13
77–78.....	0.031645	71,093	2,250	69,968	815,163	11.47
78–79.....	0.035183	68,843	2,422	67,632	745,195	10.82
79–80.....	0.039118	66,421	2,598	65,122	677,563	10.20
80–81.....	0.043238	63,823	2,760	62,443	612,441	9.60
81–82.....	0.047886	61,063	2,924	59,601	549,998	9.01
82–83.....	0.053528	58,139	3,112	56,583	490,397	8.43
83–84.....	0.059755	55,027	3,288	53,383	433,814	7.88
84–85.....	0.067411	51,739	3,488	49,995	380,431	7.35
85–86.....	0.075929	48,251	3,664	46,419	330,437	6.85
86–87.....	0.085043	44,587	3,792	42,691	284,017	6.37
87–88.....	0.095168	40,796	3,882	38,854	241,326	5.92
88–89.....	0.106890	36,913	3,946	34,940	202,472	5.49
89–90.....	0.119752	32,967	3,948	30,993	167,531	5.08
90–91.....	0.133793	29,020	3,883	27,078	136,538	4.71
91–92.....	0.149031	25,137	3,746	23,264	109,460	4.35
92–93.....	0.165465	21,391	3,539	19,621	86,196	4.03
93–94.....	0.183072	17,851	3,268	16,217	66,575	3.73
94–95.....	0.201797	14,583	2,943	13,112	50,357	3.45
95–96.....	0.221560	11,640	2,579	10,351	37,246	3.20
96–97.....	0.242249	9,061	2,195	7,964	26,895	2.97
97–98.....	0.263727	6,866	1,811	5,961	18,931	2.76
98–99.....	0.285825	5,055	1,445	4,333	12,970	2.57
99–100.....	0.308359	3,610	1,113	3,054	8,637	2.39
100–101.....	0.331124	2,497	827	2,084	5,583	2.24
101–102.....	0.353911	1,670	591	1,375	3,500	2.10
102–103.....	0.376505	1,079	406	876	2,125	1.97
103–104.....	0.398703	673	268	539	1,249	1.86
104–105.....	0.420315	405	170	320	710	1.76
105–106.....	0.441169	235	103	183	391	1.67
106–107.....	0.461121	131	60	101	208	1.59
107–108.....	0.480054	71	34	54	107	1.52
108–109.....	0.497882	37	18	28	53	1.45
109–110.....	0.514546	18	9	14	26	1.40

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 16. Life table for the non-Hispanic black population: United States, 2009–2011**

Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table16.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table16.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
<b>Days</b>						
0–1	0.005111	100,000	511	274	7,465,472	74.65
1–7	0.001139	99,489	113	1,635	7,465,198	75.04
7–28	0.001501	99,376	149	5,713	7,463,563	75.10
28–365	0.004022	99,226	399	91,430	7,457,850	75.16
<b>Years</b>						
0–1	0.011774	100,000	1,173	99,052	7,465,472	74.65
1–2	0.000709	98,827	70	98,792	7,366,420	74.54
2–3	0.000451	98,757	45	98,735	7,267,628	73.59
3–4	0.000311	98,713	31	98,697	7,168,893	72.62
4–5	0.000253	98,682	25	98,669	7,070,196	71.65
5–6	0.000230	98,657	23	98,646	6,971,526	70.66
6–7	0.000200	98,634	20	98,624	6,872,881	69.68
7–8	0.000176	98,615	17	98,606	6,774,256	68.69
8–9	0.000153	98,597	15	98,590	6,675,650	67.71
9–10	0.000132	98,582	13	98,576	6,577,061	66.72
10–11	0.000120	98,569	12	98,563	6,478,485	65.73
11–12	0.000129	98,557	13	98,551	6,379,922	64.73
12–13	0.000174	98,545	17	98,536	6,281,371	63.74
13–14	0.000259	98,527	26	98,515	6,182,835	62.75
14–15	0.000370	98,502	36	98,484	6,084,321	61.77
15–16	0.000481	98,465	47	98,442	5,985,837	60.79
16–17	0.000586	98,418	58	98,389	5,887,396	59.82
17–18	0.000698	98,360	69	98,326	5,789,006	58.86
18–19	0.000824	98,292	81	98,251	5,690,681	57.90
19–20	0.000965	98,211	95	98,163	5,592,429	56.94
20–21	0.001127	98,116	111	98,061	5,494,266	56.00
21–22	0.001287	98,005	126	97,942	5,396,206	55.06
22–23	0.001410	97,879	138	97,810	5,298,264	54.13
23–24	0.001469	97,741	144	97,669	5,200,453	53.21
24–25	0.001478	97,597	144	97,525	5,102,784	52.28
25–26	0.001470	97,453	143	97,382	5,005,259	51.36
26–27	0.001474	97,310	143	97,238	4,907,877	50.44
27–28	0.001487	97,167	144	97,094	4,810,639	49.51
28–29	0.001519	97,022	147	96,948	4,713,545	48.58
29–30	0.001568	96,875	152	96,799	4,616,596	47.66
30–31	0.001623	96,723	157	96,644	4,519,798	46.73
31–32	0.001677	96,566	162	96,485	4,423,153	45.80
32–33	0.001738	96,404	168	96,320	4,326,669	44.88
33–34	0.001805	96,236	174	96,150	4,230,348	43.96
34–35	0.001881	96,063	181	95,972	4,134,199	43.04
35–36	0.001972	95,882	189	95,788	4,038,226	42.12
36–37	0.002080	95,693	199	95,593	3,942,439	41.20
37–38	0.002202	95,494	210	95,389	3,846,845	40.28
38–39	0.002339	95,284	223	95,172	3,751,456	39.37
39–40	0.002496	95,061	237	94,942	3,656,284	38.46
40–41	0.002673	94,824	253	94,697	3,561,342	37.56
41–42	0.002878	94,570	272	94,434	3,466,645	36.66
42–43	0.003117	94,298	294	94,151	3,372,211	35.76
43–44	0.003391	94,004	319	93,845	3,278,060	34.87
44–45	0.003693	93,685	346	93,512	3,184,216	33.99
45–46	0.003998	93,339	373	93,153	3,090,704	33.11
46–47	0.004323	92,966	402	92,765	2,997,551	32.24
47–48	0.004713	92,564	436	92,346	2,904,786	31.38
48–49	0.005191	92,128	478	91,889	2,812,440	30.53
49–50	0.005742	91,650	526	91,387	2,720,551	29.68
50–51	0.006327	91,124	577	90,835	2,629,164	28.85
51–52	0.006921	90,547	627	90,234	2,538,329	28.03
52–53	0.007544	89,920	678	89,581	2,448,095	27.23

**Table 16. Life table for the non-Hispanic black population: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table16.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table16.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.008204	89,242	732	88,876	2,358,514	26.43
54–55	0.008913	88,510	789	88,115	2,269,638	25.64
55–56	0.009696	87,721	851	87,296	2,181,523	24.87
56–57	0.010538	86,870	915	86,413	2,094,227	24.11
57–58	0.011387	85,955	979	85,466	2,007,815	23.36
58–59	0.012203	84,976	1,037	84,458	1,922,349	22.62
59–60	0.012993	83,939	1,091	83,394	1,837,891	21.90
60–61	0.013829	82,849	1,146	82,276	1,754,498	21.18
61–62	0.014745	81,703	1,205	81,101	1,672,222	20.47
62–63	0.015706	80,498	1,264	79,866	1,591,121	19.77
63–64	0.016728	79,234	1,325	78,571	1,511,255	19.07
64–65	0.017842	77,908	1,390	77,213	1,432,684	18.39
65–66	0.019088	76,518	1,461	75,788	1,355,471	17.71
66–67	0.020506	75,058	1,539	74,288	1,279,683	17.05
67–68	0.022010	73,519	1,618	72,710	1,205,394	16.40
68–69	0.023646	71,901	1,700	71,050	1,132,685	15.75
69–70	0.025311	70,200	1,777	69,312	1,061,634	15.12
70–71	0.027080	68,424	1,853	67,497	992,322	14.50
71–72	0.028954	66,571	1,927	65,607	924,825	13.89
72–73	0.031106	64,643	2,011	63,638	859,218	13.29
73–74	0.033410	62,632	2,093	61,586	795,581	12.70
74–75	0.036139	60,540	2,188	59,446	733,995	12.12
75–76	0.039000	58,352	2,276	57,214	674,549	11.56
76–77	0.042256	56,076	2,370	54,891	617,335	11.01
77–78	0.045441	53,707	2,440	52,486	562,443	10.47
78–79	0.049668	51,266	2,546	49,993	509,957	9.95
79–80	0.053541	48,720	2,609	47,416	459,964	9.44
80–81	0.058912	46,111	2,717	44,753	412,548	8.95
81–82	0.063812	43,395	2,769	42,010	367,795	8.48
82–83	0.069075	40,626	2,806	39,223	325,785	8.02
83–84	0.075494	37,820	2,855	36,392	286,562	7.58
84–85	0.082355	34,964	2,880	33,525	250,170	7.15
85–86	0.089746	32,085	2,879	30,645	216,645	6.75
86–87	0.097688	29,205	2,853	27,779	186,000	6.37
87–88	0.106204	26,352	2,799	24,953	158,221	6.00
88–89	0.115312	23,554	2,716	22,196	133,268	5.66
89–90	0.125027	20,838	2,605	19,535	111,073	5.33
90–91	0.135360	18,232	2,468	16,998	91,538	5.02
91–92	0.146315	15,764	2,307	14,611	74,539	4.73
92–93	0.157894	13,458	2,125	12,395	59,928	4.45
93–94	0.170090	11,333	1,928	10,369	47,533	4.19
94–95	0.182888	9,405	1,720	8,545	37,164	3.95
95–96	0.196270	7,685	1,508	6,931	28,618	3.72
96–97	0.210205	6,177	1,298	5,528	21,687	3.51
97–98	0.224657	4,878	1,096	4,330	16,160	3.31
98–99	0.239581	3,782	906	3,329	11,829	3.13
99–100	0.254925	2,876	733	2,510	8,500	2.96
100–101	0.270628	2,143	580	1,853	5,990	2.80
101–102	0.286626	1,563	448	1,339	4,137	2.65
102–103	0.302846	1,115	338	946	2,798	2.51
103–104	0.319213	777	248	653	1,852	2.38
104–105	0.335648	529	178	440	1,199	2.27
105–106	0.352073	352	124	290	758	2.16
106–107	0.368406	228	84	186	469	2.06
107–108	0.384571	144	55	116	283	1.97
108–109	0.400493	89	35	71	167	1.88
109–110	0.416101	53	22	42	96	1.80

SOURCE: NCHS, National Vital Statistics System, Mortality.



**Table 17. Life table for non-Hispanic black males: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table17.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table17.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1	0.005567	100,000	557	274	7,141,455	71.41
1–7	0.001296	99,443	129	1,634	7,141,181	71.81
7–28	0.001603	99,314	159	5,709	7,139,547	71.89
28–365	0.004511	99,155	447	91,342	7,133,838	71.95
Years						
0–1	0.012977	100,000	1,292	98,959	7,141,455	71.41
1–2	0.000682	98,708	67	98,674	7,042,496	71.35
2–3	0.000477	98,641	47	98,617	6,943,822	70.40
3–4	0.000323	98,594	32	98,578	6,845,205	69.43
4–5	0.000258	98,562	25	98,549	6,746,627	68.45
5–6	0.000237	98,536	23	98,525	6,648,078	67.47
6–7	0.000212	98,513	21	98,503	6,549,553	66.48
7–8	0.000187	98,492	18	98,483	6,451,051	65.50
8–9	0.000153	98,474	15	98,466	6,352,568	64.51
9–10	0.000114	98,459	11	98,453	6,254,102	63.52
10–11	0.000083	98,447	8	98,443	6,155,649	62.53
11–12	0.000087	98,439	9	98,435	6,057,206	61.53
12–13	0.000158	98,431	16	98,423	5,958,771	60.54
13–14	0.000304	98,415	30	98,400	5,860,348	59.55
14–15	0.000498	98,385	49	98,361	5,761,948	58.57
15–16	0.000692	98,336	68	98,302	5,663,587	57.59
16–17	0.000869	98,268	85	98,225	5,565,285	56.63
17–18	0.001053	98,183	103	98,131	5,467,059	55.68
18–19	0.001255	98,079	123	98,018	5,368,928	54.74
19–20	0.001476	97,956	145	97,884	5,270,911	53.81
20–21	0.001734	97,812	170	97,727	5,173,027	52.89
21–22	0.001989	97,642	194	97,545	5,075,300	51.98
22–23	0.002181	97,448	213	97,342	4,977,755	51.08
23–24	0.002262	97,235	220	97,125	4,880,413	50.19
24–25	0.002253	97,015	219	96,906	4,783,288	49.30
25–26	0.002211	96,797	214	96,690	4,686,382	48.41
26–27	0.002185	96,583	211	96,477	4,589,692	47.52
27–28	0.002169	96,372	209	96,267	4,493,215	46.62
28–29	0.002184	96,163	210	96,058	4,396,947	45.72
29–30	0.002225	95,953	213	95,846	4,300,890	44.82
30–31	0.002269	95,739	217	95,631	4,205,044	43.92
31–32	0.002307	95,522	220	95,412	4,109,413	43.02
32–33	0.002353	95,302	224	95,190	4,014,001	42.12
33–34	0.002411	95,077	229	94,963	3,918,811	41.22
34–35	0.002481	94,848	235	94,731	3,823,849	40.32
35–36	0.002571	94,613	243	94,491	3,729,118	39.41
36–37	0.002681	94,370	253	94,243	3,634,627	38.51
37–38	0.002805	94,117	264	93,985	3,540,384	37.62
38–39	0.002946	93,853	276	93,714	3,446,399	36.72
39–40	0.003107	93,576	291	93,431	3,352,685	35.83
40–41	0.003295	93,285	307	93,132	3,259,254	34.94
41–42	0.003519	92,978	327	92,814	3,166,123	34.05
42–43	0.003780	92,651	350	92,476	3,073,308	33.17
43–44	0.004080	92,301	377	92,112	2,980,832	32.29
44–45	0.004415	91,924	406	91,721	2,888,720	31.43
45–46	0.004756	91,518	435	91,300	2,796,999	30.56
46–47	0.005132	91,083	467	90,849	2,705,699	29.71
47–48	0.005605	90,615	508	90,361	2,614,850	28.86
48–49	0.006209	90,107	559	89,828	2,524,488	28.02
49–50	0.006920	89,548	620	89,238	2,434,661	27.19
50–51	0.007677	88,928	683	88,587	2,345,422	26.37
51–52	0.008446	88,246	745	87,873	2,256,835	25.57
52–53	0.009275	87,500	812	87,095	2,168,962	24.79

**Table 17. Life table for non-Hispanic black males: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table17.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table17.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.010182	86,689	883	86,247	2,081,868	24.02
54–55	0.011181	85,806	959	85,326	1,995,620	23.26
55–56	0.012303	84,847	1,044	84,325	1,910,294	22.51
56–57	0.013506	83,803	1,132	83,237	1,825,969	21.79
57–58	0.014702	82,671	1,215	82,063	1,742,732	21.08
58–59	0.015806	81,456	1,288	80,812	1,660,669	20.39
59–60	0.016832	80,168	1,349	79,493	1,579,857	19.71
60–61	0.017896	78,819	1,411	78,113	1,500,364	19.04
61–62	0.019068	77,408	1,476	76,670	1,422,250	18.37
62–63	0.020283	75,932	1,540	75,162	1,345,580	17.72
63–64	0.021567	74,392	1,604	73,590	1,270,418	17.08
64–65	0.022961	72,788	1,671	71,952	1,196,828	16.44
65–66	0.024511	71,116	1,743	70,245	1,124,876	15.82
66–67	0.026267	69,373	1,822	68,462	1,054,631	15.20
67–68	0.028135	67,551	1,901	66,601	986,169	14.60
68–69	0.030169	65,650	1,981	64,660	919,568	14.01
69–70	0.032206	63,670	2,051	62,645	854,908	13.43
70–71	0.034391	61,619	2,119	60,560	792,264	12.86
71–72	0.036557	59,500	2,175	58,413	731,704	12.30
72–73	0.039334	57,325	2,255	56,198	673,291	11.75
73–74	0.042231	55,070	2,326	53,907	617,094	11.21
74–75	0.045455	52,745	2,398	51,546	563,186	10.68
75–76	0.049137	50,347	2,474	49,110	511,641	10.16
76–77	0.053329	47,873	2,553	46,597	462,531	9.66
77–78	0.057048	45,320	2,585	44,027	415,934	9.18
78–79	0.062376	42,735	2,666	41,402	371,907	8.70
79–80	0.067291	40,069	2,696	38,721	330,505	8.25
80–81	0.073519	37,373	2,748	35,999	291,784	7.81
81–82	0.078943	34,625	2,733	33,258	255,785	7.39
82–83	0.085624	31,892	2,731	30,526	222,526	6.98
83–84	0.095761	29,161	2,793	27,765	192,000	6.58
84–85	0.103519	26,369	2,730	25,004	164,235	6.23
85–86	0.111782	23,639	2,642	22,318	139,231	5.89
86–87	0.120564	20,997	2,531	19,731	116,913	5.57
87–88	0.129873	18,465	2,398	17,266	97,183	5.26
88–89	0.139718	16,067	2,245	14,945	79,917	4.97
89–90	0.150101	13,822	2,075	12,785	64,972	4.70
90–91	0.161019	11,747	1,892	10,802	52,187	4.44
91–92	0.172466	9,856	1,700	9,006	41,386	4.20
92–93	0.184430	8,156	1,504	7,404	32,380	3.97
93–94	0.196893	6,652	1,310	5,997	24,976	3.75
94–95	0.209833	5,342	1,121	4,782	18,979	3.55
95–96	0.223218	4,221	942	3,750	14,197	3.36
96–97	0.237014	3,279	777	2,890	10,447	3.19
97–98	0.251180	2,502	628	2,188	7,557	3.02
98–99	0.265670	1,873	498	1,625	5,369	2.87
99–100	0.280430	1,376	386	1,183	3,744	2.72
100–101	0.295407	990	292	844	2,562	2.59
101–102	0.310541	697	217	589	1,718	2.46
102–103	0.325769	481	157	403	1,129	2.35
103–104	0.341030	324	111	269	726	2.24
104–105	0.356258	214	76	176	457	2.14
105–106	0.371390	138	51	112	282	2.05
106–107	0.386365	86	33	70	170	1.96
107–108	0.401124	53	21	42	100	1.88
108–109	0.415611	32	13	25	58	1.81
109–110	0.429774	19	8	15	32	1.74

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 18. Life table for non-Hispanic black females: United States, 2009–2011**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table18.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table18.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Days						
0–1.....	0.004639	100,000	464	274	7,761,960	77.62
1–7.....	0.000977	99,536	97	1,635	7,761,686	77.98
7–28.....	0.001396	99,439	139	5,717	7,760,051	78.04
28–365.....	0.003517	99,300	349	91,521	7,754,333	78.09
Years						
0–1.....	0.010530	100,000	1,049	99,148	7,761,960	77.62
1–2.....	0.000652	98,951	65	98,918	7,662,812	77.44
2–3.....	0.000369	98,886	36	98,868	7,563,894	76.49
3–4.....	0.000260	98,850	26	98,837	7,465,026	75.52
4–5.....	0.000217	98,824	21	98,813	7,366,189	74.54
5–6.....	0.000195	98,803	19	98,793	7,267,376	73.55
6–7.....	0.000167	98,783	16	98,775	7,168,583	72.57
7–8.....	0.000147	98,767	15	98,759	7,069,808	71.58
8–9.....	0.000134	98,752	13	98,746	6,971,048	70.59
9–10.....	0.000129	98,739	13	98,733	6,872,303	69.60
10–11.....	0.000130	98,726	13	98,720	6,773,570	68.61
11–12.....	0.000140	98,713	14	98,707	6,674,850	67.62
12–13.....	0.000159	98,700	16	98,692	6,576,144	66.63
13–14.....	0.000186	98,684	18	98,675	6,477,452	65.64
14–15.....	0.000219	98,666	22	98,655	6,378,777	64.65
15–16.....	0.000254	98,644	25	98,631	6,280,123	63.66
16–17.....	0.000290	98,619	29	98,605	6,181,491	62.68
17–18.....	0.000332	98,590	33	98,574	6,082,887	61.70
18–19.....	0.000385	98,558	38	98,539	5,984,313	60.72
19–20.....	0.000447	98,520	44	98,498	5,885,774	59.74
20–21.....	0.000520	98,476	51	98,450	5,787,277	58.77
21–22.....	0.000594	98,424	58	98,395	5,688,827	57.80
22–23.....	0.000658	98,366	65	98,334	5,590,432	56.83
23–24.....	0.000704	98,301	69	98,267	5,492,098	55.87
24–25.....	0.000737	98,232	72	98,196	5,393,832	54.91
25–26.....	0.000768	98,160	75	98,122	5,295,636	53.95
26–27.....	0.000808	98,084	79	98,044	5,197,514	52.99
27–28.....	0.000853	98,005	84	97,963	5,099,470	52.03
28–29.....	0.000906	97,921	89	97,877	5,001,507	51.08
29–30.....	0.000967	97,832	95	97,785	4,903,630	50.12
30–31.....	0.001035	97,738	101	97,687	4,805,845	49.17
31–32.....	0.001107	97,637	108	97,583	4,708,157	48.22
32–33.....	0.001183	97,529	115	97,471	4,610,575	47.27
33–34.....	0.001262	97,413	123	97,352	4,513,104	46.33
34–35.....	0.001345	97,290	131	97,225	4,415,752	45.39
35–36.....	0.001440	97,159	140	97,089	4,318,527	44.45
36–37.....	0.001548	97,019	150	96,944	4,221,438	43.51
37–38.....	0.001668	96,869	162	96,789	4,124,493	42.58
38–39.....	0.001802	96,708	174	96,621	4,027,705	41.65
39–40.....	0.001954	96,533	189	96,439	3,931,084	40.72
40–41.....	0.002119	96,345	204	96,243	3,834,645	39.80
41–42.....	0.002304	96,141	222	96,030	3,738,402	38.88
42–43.....	0.002522	95,919	242	95,798	3,642,372	37.97
43–44.....	0.002773	95,677	265	95,545	3,546,574	37.07
44–45.....	0.003046	95,412	291	95,267	3,451,030	36.17
45–46.....	0.003320	95,121	316	94,963	3,355,763	35.28
46–47.....	0.003601	94,805	341	94,635	3,260,800	34.39
47–48.....	0.003918	94,464	370	94,279	3,166,165	33.52
48–49.....	0.004286	94,094	403	93,892	3,071,886	32.65
49–50.....	0.004696	93,691	440	93,471	2,977,994	31.79
50–51.....	0.005132	93,251	479	93,011	2,884,523	30.93
51–52.....	0.005572	92,772	517	92,514	2,791,512	30.09
52–53.....	0.006017	92,255	555	91,978	2,698,998	29.26

**Table 18. Life table for non-Hispanic black females: United States, 2009–2011—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/69-08/Table18.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/69-08/Table18.xlsx).

Age	Probability of dying between ages $x$ and $x + n$	Number surviving to age $x$	Number dying between ages $x$ and $x + n$	Person-years lived between ages $x$ and $x + n$	Total number of person-years lived above age $x$	Expectation of life at age $x$
$x$ to $x + n$	${}_nq_x$	$l_x$	${}_nd_x$	${}_nL_x$	$T_x$	$e_x$
Years—Con.						
53–54	0.006467	91,700	593	91,404	2,607,020	28.43
54–55	0.006935	91,107	632	90,791	2,515,617	27.61
55–56	0.007443	90,475	673	90,139	2,424,825	26.80
56–57	0.007996	89,802	718	89,443	2,334,687	26.00
57–58	0.008573	89,084	764	88,702	2,245,244	25.20
58–59	0.009163	88,320	809	87,915	2,156,542	24.42
59–60	0.009772	87,511	855	87,083	2,068,627	23.64
60–61	0.010430	86,656	904	86,204	1,981,543	22.87
61–62	0.011154	85,752	956	85,274	1,895,339	22.10
62–63	0.011932	84,795	1,012	84,290	1,810,066	21.35
63–64	0.012780	83,784	1,071	83,248	1,725,776	20.60
64–65	0.013719	82,713	1,135	82,146	1,642,528	19.86
65–66	0.014789	81,578	1,206	80,975	1,560,383	19.13
66–67	0.016005	80,372	1,286	79,729	1,479,408	18.41
67–68	0.017291	79,085	1,367	78,402	1,399,679	17.70
68–69	0.018683	77,718	1,452	76,992	1,321,278	17.00
69–70	0.020120	76,266	1,534	75,499	1,244,286	16.32
70–71	0.021630	74,731	1,616	73,923	1,168,787	15.64
71–72	0.023353	73,115	1,707	72,261	1,094,864	14.97
72–73	0.025122	71,407	1,794	70,510	1,022,603	14.32
73–74	0.027120	69,614	1,888	68,670	952,092	13.68
74–75	0.029647	67,726	2,008	66,722	883,423	13.04
75–76	0.032110	65,718	2,110	64,663	816,701	12.43
76–77	0.034909	63,608	2,221	62,497	752,038	11.82
77–78	0.037960	61,387	2,330	60,222	689,541	11.23
78–79	0.041735	59,057	2,465	57,824	629,319	10.66
79–80	0.045261	56,592	2,561	55,311	571,495	10.10
80–81	0.050441	54,031	2,725	52,668	516,183	9.55
81–82	0.055377	51,305	2,841	49,885	463,515	9.03
82–83	0.060184	48,464	2,917	47,006	413,630	8.53
83–84	0.065995	45,547	3,006	44,044	366,625	8.05
84–85	0.072617	42,541	3,089	40,997	322,580	7.58
85–86	0.079815	39,452	3,149	37,878	281,583	7.14
86–87	0.087622	36,303	3,181	34,713	243,706	6.71
87–88	0.096067	33,122	3,182	31,531	208,993	6.31
88–89	0.105178	29,940	3,149	28,366	177,461	5.93
89–90	0.114978	26,791	3,080	25,251	149,095	5.57
90–91	0.125489	23,711	2,975	22,223	123,844	5.22
91–92	0.136721	20,735	2,835	19,318	101,621	4.90
92–93	0.148683	17,900	2,662	16,570	82,303	4.60
93–94	0.161373	15,239	2,459	14,009	65,733	4.31
94–95	0.174780	12,780	2,234	11,663	51,724	4.05
95–96	0.188885	10,546	1,992	9,550	40,061	3.80
96–97	0.203657	8,554	1,742	7,683	30,511	3.57
97–98	0.219055	6,812	1,492	6,066	22,828	3.35
98–99	0.235025	5,320	1,250	4,695	16,762	3.15
99–100	0.251506	4,070	1,024	3,558	12,067	2.97
100–101	0.268424	3,046	818	2,637	8,509	2.79
101–102	0.285697	2,228	637	1,910	5,872	2.64
102–103	0.303234	1,592	483	1,350	3,962	2.49
103–104	0.320942	1,109	356	931	2,612	2.35
104–105	0.338720	753	255	626	1,681	2.23
105–106	0.356467	498	178	409	1,055	2.12
106–107	0.374083	320	120	261	646	2.01
107–108	0.391472	201	79	161	385	1.92
108–109	0.408540	122	50	97	224	1.83
109–110	0.425202	72	31	57	127	1.75

SOURCE: NCHS, National Vital Statistics System, Mortality.





**Table 19. Standard errors of the probability of dying: United States, 2009–2011—Con.**

Age	Total			White			Black			Hispanic			Non-Hispanic white			Non-Hispanic black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
87–88. . . . .	0.000132	0.000216	0.000168	0.000143	0.000232	0.000183	0.000438	0.000769	0.000538	0.000504	0.001259	0.000958	0.000150	0.000243	0.000192	0.000448	0.000789	0.000550
88–89. . . . .	0.000142	0.000233	0.000181	0.000154	0.000251	0.000198	0.000466	0.000821	0.000574	0.000603	0.001469	0.001132	0.000161	0.000262	0.000207	0.000477	0.000842	0.000586
89–90. . . . .	0.000153	0.000251	0.000195	0.000166	0.000272	0.000214	0.000498	0.000877	0.000613	0.000714	0.001702	0.001329	0.000174	0.000284	0.000224	0.000509	0.000899	0.000626
90–91. . . . .	0.000165	0.000272	0.000211	0.000180	0.000294	0.000231	0.000532	0.000939	0.000656	0.000839	0.001957	0.001549	0.000188	0.000308	0.000242	0.000544	0.000962	0.000670
91–92. . . . .	0.000178	0.000295	0.000228	0.000194	0.000320	0.000250	0.000569	0.001006	0.000703	0.000977	0.002233	0.001795	0.000204	0.000334	0.000262	0.000582	0.001031	0.000718
92–93. . . . .	0.000193	0.000320	0.000247	0.000211	0.000348	0.000271	0.000610	0.001081	0.000754	0.001129	0.002529	0.002065	0.000221	0.000363	0.000285	0.000623	0.001107	0.000770
93–94. . . . .	0.000210	0.000349	0.000269	0.000229	0.000379	0.000295	0.000655	0.001164	0.000810	0.001293	0.002842	0.002358	0.000240	0.000396	0.000309	0.000669	0.001192	0.000828
94–95. . . . .	0.000228	0.000380	0.000292	0.000249	0.000415	0.000321	0.000705	0.001255	0.000873	0.001469	0.003170	0.002674	0.000261	0.000433	0.000337	0.000720	0.001285	0.000891
95–96. . . . .	0.000248	0.000416	0.000318	0.000272	0.000455	0.000350	0.000760	0.001357	0.000942	0.001656	0.003509	0.003008	0.000285	0.000475	0.000367	0.000776	0.001389	0.000961
96–97. . . . .	0.000271	0.000457	0.000348	0.000298	0.000500	0.000383	0.000821	0.001471	0.001018	0.001852	0.003855	0.003359	0.000312	0.000522	0.000402	0.000838	0.001505	0.001039
97–98. . . . .	0.000297	0.000503	0.000381	0.000327	0.000552	0.000421	0.000889	0.001598	0.001104	0.002054	0.004203	0.003722	0.000342	0.000576	0.000441	0.000908	0.001635	0.001126
98–99. . . . .	0.000327	0.000556	0.000419	0.000360	0.000611	0.000463	0.000965	0.001741	0.001199	0.002261	0.004549	0.004091	0.000376	0.000638	0.000485	0.000985	0.001781	0.001224
99–100. . . . .	0.000360	0.000617	0.000462	0.000397	0.000679	0.000511	0.001050	0.001902	0.001307	0.002469	0.004887	0.004462	0.000416	0.000709	0.000536	0.001072	0.001945	0.001333
100–101. . . . .	0.000399	0.000687	0.000511	0.000440	0.000758	0.000566	0.001146	0.002084	0.001427	0.002676	0.005214	0.004829	0.000461	0.000792	0.000594	0.001170	0.002130	0.001456
101–102. . . . .	0.000443	0.000768	0.000567	0.000490	0.000850	0.000630	0.001255	0.002291	0.001564	0.002879	0.005526	0.005185	0.000513	0.000887	0.000660	0.001281	0.002340	0.001595
102–103. . . . .	0.000494	0.000862	0.000633	0.000548	0.000956	0.000703	0.001378	0.002526	0.001720	0.003075	0.005819	0.005527	0.000573	0.000999	0.000737	0.001406	0.002579	0.001753
103–104. . . . .	0.000553	0.000972	0.000708	0.000615	0.001081	0.000789	0.001518	0.002794	0.001896	0.003262	0.006090	0.005850	0.000643	0.001130	0.000827	0.001549	0.002851	0.001933
104–105. . . . .	0.000622	0.001101	0.000797	0.000693	0.001228	0.000889	0.001678	0.003100	0.002099	0.003439	0.006338	0.006149	0.000725	0.001283	0.000932	0.001711	0.003162	0.002139
105–106. . . . .	0.000703	0.001252	0.000900	0.000785	0.001402	0.001006	0.001861	0.003452	0.002331	0.003603	0.006562	0.006423	0.000821	0.001464	0.001055	0.001897	0.003519	0.002375
106–107. . . . .	0.000798	0.001431	0.001021	0.000892	0.001607	0.001144	0.002072	0.003857	0.002599	0.003753	0.006762	0.006669	0.000934	0.001678	0.001200	0.002111	0.003930	0.002647
107–108. . . . .	0.000909	0.001643	0.001164	0.001020	0.001851	0.001307	0.002314	0.004326	0.002908	0.003890	0.006938	0.006888	0.001067	0.001933	0.001371	0.002357	0.004404	0.002961
108–109. . . . .	0.001041	0.001894	0.001333	0.001171	0.002142	0.001501	0.002594	0.004868	0.003267	0.004012	0.007092	0.007079	0.001224	0.002236	0.001573	0.002642	0.004953	0.003326
109–110. . . . .	0.001198	0.002193	0.001534	0.001350	0.002489	0.001731	0.002919	0.005498	0.003684	0.004120	0.007225	0.007243	0.001412	0.002598	0.001815	0.002971	0.005590	0.003749

SOURCE: NCHS, National Vital Statistics System, Mortality.







**Table 20. Standard errors of life expectancy: United States, 2009–2011—Con.**

Age	Total			White			Black			Hispanic			Non-Hispanic white			Non-Hispanic black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
85–86.....	0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.009	0.008	0.009	0.018	0.019	0.002	0.003	0.003	0.006	0.009	0.008
86–87.....	0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.008	0.008	0.010	0.018	0.019	0.002	0.002	0.002	0.006	0.009	0.008
87–88.....	0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.008	0.007	0.010	0.018	0.020	0.002	0.002	0.002	0.006	0.008	0.008
88–89.....	0.002	0.002	0.002	0.002	0.002	0.002	0.006	0.008	0.007	0.010	0.019	0.020	0.002	0.002	0.002	0.006	0.008	0.007
89–90.....	0.001	0.002	0.002	0.002	0.002	0.002	0.005	0.008	0.007	0.011	0.019	0.020	0.002	0.002	0.002	0.006	0.008	0.007
90–91.....	0.001	0.002	0.002	0.002	0.002	0.002	0.005	0.008	0.007	0.011	0.019	0.021	0.002	0.002	0.002	0.005	0.008	0.007
91–92.....	0.001	0.002	0.002	0.002	0.002	0.002	0.005	0.008	0.007	0.011	0.019	0.021	0.002	0.002	0.002	0.005	0.008	0.007
92–93.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.011	0.020	0.021	0.002	0.002	0.002	0.005	0.008	0.007
93–94.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.011	0.020	0.021	0.002	0.002	0.002	0.005	0.008	0.007
94–95.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.011	0.020	0.021	0.002	0.002	0.002	0.005	0.008	0.007
95–96.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.012	0.020	0.021	0.002	0.002	0.002	0.005	0.008	0.007
96–97.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.006	0.012	0.020	0.021	0.002	0.002	0.002	0.005	0.008	0.007
97–98.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.012	0.020	0.021	0.002	0.002	0.002	0.005	0.009	0.007
98–99.....	0.001	0.002	0.002	0.001	0.002	0.002	0.005	0.008	0.007	0.012	0.020	0.021	0.002	0.002	0.002	0.005	0.009	0.007
99–100.....	0.001	0.002	0.002	0.002	0.002	0.002	0.005	0.009	0.007	0.012	0.020	0.021	0.002	0.002	0.002	0.005	0.009	0.007
100–101.....	0.001	0.002	0.002	0.002	0.002	0.002	0.005	0.009	0.007	0.012	0.019	0.021	0.002	0.003	0.002	0.006	0.009	0.007
101–102.....	0.002	0.002	0.002	0.002	0.003	0.002	0.006	0.009	0.007	0.012	0.019	0.020	0.002	0.003	0.002	0.006	0.010	0.007
102–103.....	0.002	0.003	0.002	0.002	0.003	0.002	0.006	0.010	0.007	0.011	0.019	0.020	0.002	0.003	0.002	0.006	0.010	0.007
103–104.....	0.002	0.003	0.002	0.002	0.003	0.002	0.006	0.010	0.007	0.011	0.019	0.020	0.002	0.003	0.002	0.006	0.010	0.007
104–105.....	0.002	0.003	0.002	0.002	0.003	0.002	0.006	0.011	0.008	0.011	0.018	0.020	0.002	0.003	0.003	0.006	0.011	0.008
105–106.....	0.002	0.003	0.002	0.002	0.003	0.003	0.006	0.011	0.008	0.011	0.018	0.019	0.002	0.004	0.003	0.007	0.012	0.008
106–107.....	0.002	0.003	0.003	0.002	0.004	0.003	0.007	0.012	0.008	0.011	0.018	0.019	0.002	0.004	0.003	0.007	0.012	0.009
107–108.....	0.002	0.004	0.003	0.002	0.004	0.003	0.007	0.013	0.009	0.011	0.018	0.018	0.003	0.004	0.003	0.007	0.013	0.009
108–109.....	0.002	0.004	0.003	0.003	0.005	0.003	0.008	0.014	0.010	0.011	0.017	0.018	0.003	0.005	0.004	0.008	0.014	0.010
109–110.....	0.003	0.005	0.003	0.003	0.005	0.004	0.008	0.015	0.010	0.011	0.017	0.018	0.003	0.005	0.004	0.009	0.016	0.010

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>All races</b>												
0.....	78.60	76.86	75.37	73.88	70.75	69.89	68.07	63.62	59.20	56.40	51.49	49.24
1.....	78.08	76.40	75.08	73.82	71.19	70.75	69.16	65.76	61.94	59.94	57.11	55.20
5.....	74.17	72.49	71.22	70.00	67.43	67.04	65.54	62.49	59.29	57.99	56.21	54.98
10.....	69.21	67.55	66.29	65.10	62.57	62.19	60.74	57.82	54.84	53.79	52.15	51.14
15.....	64.26	62.61	61.38	60.19	57.69	57.33	55.91	53.10	50.25	49.37	47.73	46.81
20.....	59.41	57.82	56.63	55.46	53.00	52.58	51.20	48.54	45.94	45.30	43.53	42.79
25.....	54.66	53.08	51.93	50.81	48.37	47.89	46.56	44.09	41.85	41.47	39.60	39.12
30.....	49.91	48.31	47.23	46.12	43.71	43.18	41.91	39.67	37.75	37.68	35.70	35.51
35.....	45.18	43.57	42.58	41.43	39.07	38.51	37.31	35.30	33.68	33.89	31.90	31.92
40.....	40.48	38.90	37.98	36.79	34.52	33.92	32.81	31.03	29.67	30.08	28.20	28.34
45.....	35.87	34.34	33.44	32.27	30.12	29.50	28.49	26.90	25.79	26.25	24.54	24.77
50.....	31.41	29.90	29.03	27.94	25.93	25.29	24.40	22.98	22.06	22.50	20.98	21.26
55.....	27.14	25.61	24.83	23.85	21.99	21.37	20.57	19.31	18.53	18.90	17.55	17.88
60.....	23.04	21.55	20.90	20.02	18.34	17.71	17.04	15.91	15.24	15.54	14.42	14.76
65.....	19.11	17.77	17.28	16.51	15.00	14.39	13.83	12.80	12.23	12.47	11.60	11.86
70.....	15.44	14.27	13.96	13.32	12.00	11.38	10.92	10.00	9.58	9.74	9.11	9.30
75.....	12.06	11.12	11.00	10.48	9.32	8.71	8.40	7.62	7.32	7.49	6.99	7.08
80.....	9.06	8.42	8.40	7.98	7.10	6.39	6.34	5.73	5.50	5.63	5.25	5.30
85.....	6.52	6.22	6.23	5.96	5.28	4.58	4.69	4.31	4.19	4.21	4.00	3.96
90.....	4.55	4.49	4.50	4.43	3.94	3.22	3.44	3.30	3.15	3.22	3.03	2.95
95.....	3.16	3.19	3.29	3.34	3.06	2.43	2.54	2.61	2.26	2.32	2.35	2.18
100.....	2.26	2.27	2.46	2.73	2.62	1.91	1.92	2.13	1.51	1.53	1.85	1.58
<b>Male</b>												
0.....	76.13	74.13	71.83	70.11	67.04	66.80	65.47	61.60	57.71	55.50	49.86	47.88
1.....	75.65	73.70	71.58	70.10	67.58	67.80	66.73	64.00	60.75	59.47	55.95	54.35
5.....	71.73	69.80	67.73	66.29	63.82	64.10	63.12	60.76	58.14	57.60	55.11	54.22
10.....	66.78	64.86	62.81	61.41	58.98	59.27	58.35	56.12	53.75	53.44	51.07	50.39
15.....	61.83	59.94	57.91	56.52	54.12	54.43	53.56	51.43	49.18	49.05	46.66	46.06
20.....	57.04	55.21	53.25	51.88	49.54	49.77	48.92	46.91	44.88	44.99	42.48	42.03
25.....	52.39	50.57	48.67	47.37	45.07	45.19	44.36	42.51	40.79	41.11	38.59	38.38
30.....	47.73	45.89	44.10	42.81	40.51	40.56	39.78	38.13	36.71	37.26	34.70	34.76
35.....	43.07	41.21	39.57	38.20	35.95	35.94	35.23	33.79	32.65	33.43	30.94	31.19
40.....	38.43	36.62	35.09	33.64	31.48	31.42	30.79	29.57	28.68	29.63	27.32	27.65
45.....	33.89	32.14	30.66	29.22	27.18	27.09	26.55	25.52	24.87	25.84	23.77	24.14
50.....	29.52	27.82	26.37	25.00	23.12	23.02	22.59	21.72	21.25	22.11	20.32	20.70
55.....	25.37	23.65	22.30	21.08	19.36	19.32	18.96	18.20	17.79	18.53	16.98	17.38
60.....	21.44	19.73	18.53	17.46	15.99	15.94	15.68	14.99	14.62	15.22	13.95	14.33
65.....	17.69	16.11	15.12	14.21	12.99	12.95	12.74	12.07	11.72	12.20	11.24	11.50
70.....	14.18	12.80	12.05	11.35	10.39	10.33	10.11	9.46	9.18	9.52	8.83	9.02
75.....	10.98	9.89	9.39	8.90	8.13	7.99	7.83	7.22	7.02	7.31	6.75	6.84
80.....	8.16	7.44	7.12	6.80	6.27	5.95	5.94	5.44	5.27	5.49	5.10	5.11

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Male—Con.</b>												
85.....	5.81	5.47	5.31	5.13	4.73	4.39	4.41	4.11	4.02	4.10	3.90	3.82
90.....	4.04	3.95	3.89	3.89	3.60	3.18	3.30	3.17	3.06	3.21	3.01	2.86
95.....	2.83	2.82	2.92	2.98	2.82	2.43	2.49	2.52	2.21	2.38	2.36	2.13
100.....	2.05	2.03	2.25	2.49	2.43	1.91	1.92	2.05	1.50	1.58	1.81	1.55
<b>Female</b>												
0.....	80.98	79.47	78.81	77.62	74.64	73.24	70.96	65.89	60.90	57.40	53.24	50.70
1.....	80.43	78.97	78.47	77.50	74.97	73.93	71.84	67.73	65.37	60.45	58.37	56.10
5.....	76.51	75.06	74.60	73.67	71.19	70.21	68.21	64.43	60.66	58.41	57.39	55.80
10.....	71.55	70.11	69.67	68.75	66.31	65.35	63.38	59.73	56.16	54.16	53.31	51.94
15.....	66.59	65.16	64.73	63.83	61.41	60.45	58.52	54.97	51.54	49.71	48.87	47.60
20.....	61.68	60.29	59.87	58.98	56.59	55.60	53.73	50.37	47.21	45.63	44.66	43.60
25.....	56.81	55.42	55.03	54.16	51.80	50.79	48.99	45.87	43.11	41.86	40.69	39.92
30.....	51.97	50.57	50.19	49.33	47.01	46.00	44.28	41.41	39.02	38.15	36.79	36.30
35.....	47.15	45.75	45.40	44.53	42.28	41.27	39.63	37.01	34.92	34.40	32.95	32.71
40.....	42.38	40.99	40.65	39.80	37.64	36.61	35.06	32.68	30.86	30.58	29.15	29.08
45.....	37.70	36.33	35.97	35.17	33.13	32.09	30.64	28.46	26.89	26.71	25.36	25.44
50.....	33.14	31.76	31.42	30.69	28.77	27.71	26.40	24.40	23.05	22.92	21.67	21.84
55.....	28.72	27.32	27.05	26.39	24.59	23.53	22.33	20.54	19.38	19.28	18.13	18.39
60.....	24.42	23.10	22.90	22.29	20.60	19.52	18.50	16.92	15.94	15.87	14.90	15.21
65.....	20.30	19.12	19.02	18.44	16.83	15.80	14.95	13.57	12.78	12.73	11.96	12.22
70.....	16.43	15.40	15.38	14.84	13.35	12.37	11.71	10.56	9.99	9.96	9.38	9.59
75.....	12.85	11.99	12.08	11.58	10.26	9.33	8.94	8.01	7.61	7.65	7.20	7.34
80.....	9.65	9.05	9.13	8.69	7.68	6.72	6.67	5.99	5.70	5.75	5.37	5.51
85.....	6.90	6.62	6.66	6.38	5.63	4.71	4.90	4.47	4.32	4.30	4.08	4.12
90.....	4.77	4.71	4.73	4.66	4.14	3.25	3.54	3.39	3.24	3.23	3.05	3.04
95.....	3.26	3.29	3.40	3.48	3.18	2.43	2.57	2.67	2.30	2.27	2.34	2.24
100.....	2.29	2.29	2.52	2.81	2.69	1.91	1.93	2.17	1.52	1.48	1.91	1.61
<b>White</b>												
0.....	78.88	77.43	76.13	74.53	71.62	70.73	69.02	64.92	60.86	57.42	51.90	49.64
1.....	78.29	76.87	75.72	74.35	71.91	71.38	69.95	66.84	63.46	60.87	57.46	55.47
5.....	74.37	72.96	71.84	70.52	68.12	67.64	66.29	63.52	60.75	58.86	56.51	55.18
10.....	69.41	68.01	66.92	65.62	63.26	62.79	61.48	58.83	56.29	54.65	52.43	51.34
15.....	64.45	63.07	61.99	60.71	58.37	57.92	56.65	54.09	51.69	50.21	48.01	47.01
20.....	59.60	58.27	57.23	55.98	53.66	53.16	51.91	49.47	47.28	46.04	43.77	43.17
25.....	54.84	53.51	52.50	51.30	49.00	48.44	47.22	44.92	43.02	42.07	39.79	39.26
30.....	50.08	48.72	47.76	46.59	44.28	43.69	42.52	40.40	38.76	38.17	35.86	35.51
35.....	45.34	43.95	43.06	41.86	39.58	38.97	37.86	35.93	34.50	34.27	32.03	32.01
40.....	40.63	39.25	38.41	37.17	34.95	34.33	33.29	31.54	30.33	30.38	28.29	28.28
45.....	36.01	34.65	33.81	32.60	30.48	29.84	28.88	27.29	26.29	26.45	24.60	24.82

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>White—Con.</b>												
50.....	31.54	30.17	29.34	28.21	26.21	25.57	24.70	23.26	22.42	22.64	21.01	21.18
55.....	27.24	25.82	25.08	24.05	22.19	21.58	20.77	19.47	18.75	18.97	17.57	17.91
60.....	23.10	21.71	21.08	20.16	18.48	17.84	17.15	15.98	15.37	15.57	14.43	14.73
65.....	19.14	17.88	17.40	16.59	15.08	14.44	13.86	12.80	12.28	12.47	11.60	11.87
70.....	15.44	14.34	14.02	13.35	12.01	11.37	10.89	9.96	9.58	9.72	9.10	9.31
75.....	12.04	11.15	11.03	10.47	9.27	8.65	8.34	7.55	7.30	7.47	6.98	7.08
80.....	9.02	8.42	8.39	7.95	7.01	6.33	6.27	5.64	5.45	5.59	5.22	5.30
85.....	6.47	6.19	6.20	5.90	5.19	4.53	4.62	4.20	4.12	4.15	3.97	3.95
90.....	4.48	4.44	4.46	4.36	3.84	3.20	3.41	3.16	3.10	3.17	3.00	2.93
95.....	3.09	3.14	3.25	3.25	2.92	2.43	2.53	2.45	2.22	2.28	2.29	2.16
100.....	2.20	2.22	2.43	2.62	2.41	1.91	1.92	1.95	1.48	1.50	1.71	1.56
<b>White male</b>												
0.....	76.49	74.78	72.72	70.82	67.94	67.55	66.31	62.81	59.12	56.34	50.23	48.23
1.....	75.92	74.25	72.35	70.70	68.33	68.34	67.41	64.98	62.04	60.24	56.26	54.61
5.....	72.00	70.34	68.48	66.87	64.55	64.61	63.77	61.68	59.38	58.31	55.37	54.43
10.....	67.04	65.40	63.55	61.98	59.69	59.78	58.98	57.03	54.96	54.15	51.32	50.59
15.....	62.09	60.47	58.65	57.09	54.83	54.93	54.18	52.33	50.39	49.74	46.91	46.25
20.....	57.29	55.72	53.96	52.45	50.22	50.25	49.52	47.76	46.02	45.60	42.71	42.19
25.....	52.62	51.05	49.33	47.92	45.70	45.65	44.93	43.28	41.78	41.60	38.79	38.52
30.....	47.95	46.34	44.71	43.31	41.07	40.97	40.29	38.80	37.54	37.65	34.87	34.88
35.....	43.28	41.64	40.12	38.66	36.43	36.31	35.68	34.36	33.33	33.74	31.08	31.29
40.....	38.63	37.01	35.57	34.04	31.87	31.73	31.17	30.03	29.22	29.86	27.43	27.74
45.....	34.07	32.49	31.07	29.55	27.48	27.34	26.87	25.87	25.28	26.00	23.86	24.21
50.....	29.69	28.12	26.71	25.26	23.34	23.22	22.83	21.96	21.51	22.22	20.39	20.76
55.....	25.52	23.88	22.56	21.25	19.51	19.45	19.11	18.34	17.97	18.59	17.03	17.42
60.....	21.54	19.90	18.71	17.56	16.07	16.01	15.76	15.05	14.72	15.25	13.98	14.35
65.....	17.75	16.22	15.24	14.26	13.02	12.97	12.75	12.07	11.77	12.21	11.25	11.51
70.....	14.21	12.87	12.11	11.35	10.38	10.29	10.07	9.42	9.20	9.51	8.83	9.03
75.....	10.98	9.92	9.40	8.87	8.06	7.92	7.77	7.17	7.02	7.30	6.75	6.84
80.....	8.14	7.43	7.11	6.76	6.18	5.89	5.88	5.38	5.26	5.47	5.09	5.10
85.....	5.77	5.43	5.28	5.09	4.63	4.34	4.35	4.02	3.99	4.06	3.88	3.81
90.....	3.97	3.90	3.85	3.83	3.49	3.16	3.27	3.06	3.03	3.18	2.99	2.85
95.....	2.75	2.77	2.88	2.91	2.67	2.43	2.48	2.40	2.19	2.36	2.31	2.12
100.....	1.98	1.98	2.21	2.41	2.20	1.91	1.92	1.96	1.49	1.58	1.68	1.55
<b>White female</b>												
0.....	81.23	79.99	79.45	78.22	75.49	74.19	72.03	67.29	62.67	58.53	53.62	51.08
1.....	80.61	79.40	78.99	77.98	75.66	74.68	72.77	68.93	64.93	61.51	58.69	56.39
5.....	76.68	75.48	75.10	74.13	71.86	70.92	69.09	65.57	62.17	59.43	57.67	56.03
10.....	71.72	70.53	70.16	69.21	66.97	66.05	64.26	60.85	57.65	55.17	53.57	52.15

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>White female—Con.</b>												
15.....	66.76	65.58	65.23	64.29	62.07	61.15	59.39	56.07	53.00	50.67	49.12	47.79
20.....	61.85	60.70	60.36	59.44	57.24	56.29	54.56	51.38	48.52	46.46	44.88	43.77
25.....	56.98	55.83	55.51	54.60	52.42	51.45	49.77	46.78	44.25	42.55	40.88	40.05
30.....	52.13	50.95	50.65	49.76	47.60	46.63	45.00	42.21	39.99	38.72	36.96	36.42
35.....	47.30	46.11	45.82	44.93	42.82	41.84	40.28	37.70	35.73	34.86	33.09	32.82
40.....	42.52	41.33	41.03	40.16	38.12	37.13	35.64	33.25	31.52	30.94	29.26	29.17
45.....	37.82	36.62	36.30	35.49	33.54	32.53	31.12	28.90	27.39	26.98	25.45	25.51
50.....	33.25	32.01	31.71	30.96	29.11	28.08	26.76	24.72	23.41	23.12	21.74	21.89
55.....	28.80	27.53	27.29	26.61	24.85	23.81	22.58	20.73	19.60	19.40	18.18	18.43
60.....	24.47	23.25	23.09	22.45	20.79	19.69	18.64	17.00	16.05	15.93	14.92	15.23
65.....	20.32	19.23	19.14	18.55	16.93	15.88	15.00	13.56	12.81	12.75	11.97	12.23
70.....	16.42	15.47	15.46	14.89	13.37	12.38	11.68	10.50	9.98	9.94	9.38	9.59
75.....	12.83	12.02	12.11	11.58	10.21	9.28	8.87	7.92	7.56	7.62	7.20	7.33
80.....	9.61	9.04	9.12	8.65	7.59	6.67	6.59	5.88	5.63	5.70	5.35	5.50
85.....	6.86	6.59	6.62	6.32	5.54	4.66	4.83	4.34	4.24	4.24	4.06	4.10
90.....	4.71	4.67	4.69	4.59	4.05	3.23	3.51	3.24	3.17	3.16	3.00	3.02
95.....	3.20	3.24	3.36	3.39	3.04	2.43	2.56	2.47	2.24	2.20	2.27	2.21
100.....	2.24	2.24	2.49	2.70	2.49	1.91	1.92	1.95	1.48	1.42	1.74	1.58
<b>Black<sup>1</sup></b>												
0.....	74.99	71.81	69.16	68.52	64.11	63.91	60.73	53.85	48.53	47.03	35.87	33.80
1.....	74.89	71.84	69.43	68.99	65.27	65.75	62.65	57.15	51.71	51.01	43.84	43.00
5.....	71.01	67.98	65.64	65.25	61.62	62.21	59.25	54.13	49.25	49.44	45.34	45.55
10.....	66.07	63.05	60.75	60.38	56.79	57.41	54.50	49.50	44.80	45.26	41.74	42.46
15.....	61.13	58.13	55.86	55.49	51.94	52.57	49.73	44.89	40.37	41.02	38.02	39.04
20.....	56.32	53.38	51.19	50.75	47.34	47.88	45.19	40.73	36.62	37.72	34.86	36.03
25.....	51.66	48.78	46.67	46.18	43.00	43.35	40.85	36.91	33.32	34.91	31.72	33.04
30.....	47.01	44.16	42.22	41.69	38.70	38.89	36.59	33.17	30.07	31.98	28.43	29.96
35.....	42.38	39.59	37.87	37.28	34.48	34.56	32.44	29.53	26.94	29.07	25.39	26.82
40.....	37.80	35.12	33.65	32.98	30.46	30.39	28.48	26.06	23.82	26.07	22.41	23.73
45.....	33.33	30.84	29.55	28.87	26.65	26.46	24.75	22.82	20.97	23.17	19.58	20.67
50.....	29.05	26.80	25.62	25.03	23.11	22.74	21.38	19.94	18.22	20.17	16.84	17.95
55.....	25.05	22.97	21.95	21.50	19.83	19.45	18.41	17.43	15.80	17.33	14.33	15.23
60.....	21.33	19.43	18.59	18.29	16.83	16.53	15.87	15.18	13.62	14.72	12.16	13.06
65.....	17.84	16.14	15.56	15.37	14.16	13.96	13.59	13.02	11.49	12.22	10.22	10.87
70.....	14.60	13.18	12.87	12.67	11.77	11.63	11.48	10.93	9.54	9.90	8.59	8.96
75.....	11.62	10.54	10.48	10.32	9.89	9.52	9.48	8.97	7.84	8.00	7.08	7.24
80.....	8.98	8.29	8.30	8.17	8.20	7.28	7.62	7.31	6.19	6.22	5.80	5.79
85.....	6.77	6.41	6.51	6.54	6.54	5.27	5.79	5.91	4.92	4.88	4.80	4.56
90.....	5.03	4.90	4.94	5.13	5.09	3.48	3.97	4.64	3.83	3.84	4.26	3.60
95.....	3.72	3.71	3.82	4.08	4.28	2.43	2.70	3.51	2.83	2.90	3.31	2.82
100.....	2.79	2.81	2.91	3.58	3.93	1.91	1.94	2.57	1.87	1.94	2.27	2.18

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Black male<sup>1</sup></b>												
0.....	71.75	68.17	64.47	64.10	60.00	61.48	58.91	52.26	47.55	47.14	34.05	32.54
1.....	71.70	68.25	64.76	64.60	61.24	63.50	61.06	55.93	51.08	51.63	42.53	42.46
5.....	67.82	64.40	60.98	60.86	57.60	59.98	57.69	52.95	48.69	50.18	44.25	45.06
10.....	62.88	59.48	56.09	56.01	52.79	55.19	52.96	48.34	44.27	45.99	40.65	41.90
15.....	57.95	54.57	51.22	51.14	47.96	50.39	48.23	43.74	39.83	41.75	36.77	38.26
20.....	53.23	49.92	46.71	46.48	43.49	45.78	43.73	39.52	35.95	38.36	33.46	35.11
25.....	48.72	45.50	42.40	42.09	39.45	41.38	39.49	35.72	32.67	35.54	30.44	32.21
30.....	44.21	41.02	38.14	37.81	35.40	37.05	35.31	32.05	29.45	32.51	27.33	29.25
35.....	39.69	36.56	34.02	33.60	31.42	32.81	31.21	28.48	26.39	29.54	24.42	26.16
40.....	35.18	32.18	30.05	29.51	27.61	28.72	27.29	25.06	23.36	26.53	21.57	23.12
45.....	30.78	28.01	26.18	25.61	24.03	24.89	23.59	21.88	20.59	23.55	18.85	20.09
50.....	26.57	24.13	22.50	22.03	20.69	21.28	20.25	19.06	17.92	20.47	16.21	17.34
55.....	22.69	20.50	19.08	18.79	17.66	18.11	17.36	16.60	15.46	17.50	13.82	14.69
60.....	19.19	17.19	16.01	15.89	14.93	15.29	14.91	14.37	13.15	14.74	11.67	12.62
65.....	15.95	14.12	13.27	13.29	12.53	12.84	12.75	12.21	10.87	12.07	9.74	10.38
70.....	12.95	11.40	10.88	10.94	10.40	10.81	10.74	10.11	8.78	9.58	8.00	8.33
75.....	10.22	9.07	8.84	8.90	8.76	8.93	8.83	8.17	6.99	7.61	6.58	6.60
80.....	7.84	7.12	7.01	7.03	7.35	6.87	7.07	6.58	5.42	5.83	5.53	5.12
85.....	5.92	5.52	5.58	5.61	5.92	5.08	5.38	5.34	4.30	4.53	4.48	4.04
90.....	4.45	4.23	4.24	4.47	4.68	3.42	3.78	4.23	3.42	3.60	4.01	3.21
95.....	3.36	3.24	3.37	3.62	3.92	2.43	2.64	3.20	2.54	2.61	3.15	2.50
100.....	2.58	2.48	2.63	3.24	3.61	1.91	1.93	2.29	1.68	1.64	2.14	1.89
<b>Black female<sup>1</sup></b>												
0.....	77.92	75.16	73.73	72.88	68.32	66.47	62.70	55.56	49.51	46.92	37.67	35.04
1.....	77.75	75.13	73.96	73.31	69.37	68.10	64.37	58.46	52.33	50.39	45.15	43.54
5.....	73.86	71.26	70.16	69.54	65.70	64.54	60.93	55.40	49.81	48.70	46.42	46.04
10.....	68.92	66.32	65.26	64.65	60.85	59.72	56.17	50.75	45.33	44.54	42.84	43.02
15.....	63.97	61.39	60.34	59.74	55.97	54.85	51.36	46.13	40.87	40.36	39.18	39.79
20.....	59.07	56.52	55.49	54.90	51.22	50.07	46.77	42.04	37.22	37.15	36.14	36.89
25.....	54.23	51.71	50.72	50.13	46.57	45.40	42.35	38.20	33.93	34.35	32.97	33.90
30.....	49.44	46.95	46.03	45.43	42.00	40.83	38.02	34.40	30.67	31.48	29.61	30.70
35.....	44.70	42.26	41.45	40.79	37.56	36.41	33.82	30.83	27.47	28.58	26.44	27.52
40.....	40.04	37.69	36.96	36.28	33.32	32.16	29.82	27.19	24.30	25.60	23.34	24.37
45.....	35.49	33.29	32.58	31.94	29.31	28.14	26.07	23.89	21.39	22.61	20.43	21.36
50.....	31.13	29.06	28.38	27.84	25.52	24.31	22.67	20.95	18.60	19.76	17.65	18.67
55.....	26.98	25.01	24.41	24.00	21.97	20.89	19.62	18.38	16.27	17.09	14.98	15.88
60.....	23.02	21.20	20.71	20.42	18.66	17.83	16.95	16.10	14.22	14.69	12.78	13.60
65.....	19.25	17.65	17.37	17.13	15.67	15.12	14.54	13.95	12.24	12.41	10.82	11.38
70.....	15.73	14.41	14.32	14.05	13.02	12.46	12.29	11.82	10.38	10.25	9.22	9.62
75.....	12.49	11.49	11.56	11.37	10.85	10.10	10.15	9.81	8.62	8.37	7.55	7.90

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Black female<sup>1</sup>—Con.</b>												
80.....	9.59	8.96	9.05	8.95	8.87	7.66	8.15	8.02	6.90	6.58	6.05	6.48
85.....	7.16	6.86	6.99	7.09	7.00	5.44	6.15	6.41	5.48	5.22	5.09	5.10
90.....	5.23	5.16	5.24	5.47	5.41	3.52	4.13	4.96	4.20	4.07	4.50	4.01
95.....	3.80	3.84	3.97	4.30	4.58	2.43	2.74	3.71	3.09	3.18	3.45	3.15
100.....	2.79	2.84	2.97	3.69	4.20	1.91	1.94	2.70	2.04	2.23	2.39	2.49
<b>Hispanic</b>												
0.....	81.59	---	---	---	---	---	---	---	---	---	---	---
1.....	81.01	---	---	---	---	---	---	---	---	---	---	---
5.....	77.09	---	---	---	---	---	---	---	---	---	---	---
10.....	72.12	---	---	---	---	---	---	---	---	---	---	---
15.....	67.17	---	---	---	---	---	---	---	---	---	---	---
20.....	62.30	---	---	---	---	---	---	---	---	---	---	---
25.....	57.50	---	---	---	---	---	---	---	---	---	---	---
30.....	52.70	---	---	---	---	---	---	---	---	---	---	---
35.....	47.90	---	---	---	---	---	---	---	---	---	---	---
40.....	43.12	---	---	---	---	---	---	---	---	---	---	---
45.....	38.41	---	---	---	---	---	---	---	---	---	---	---
50.....	33.84	---	---	---	---	---	---	---	---	---	---	---
55.....	29.42	---	---	---	---	---	---	---	---	---	---	---
60.....	25.18	---	---	---	---	---	---	---	---	---	---	---
65.....	21.12	---	---	---	---	---	---	---	---	---	---	---
70.....	17.25	---	---	---	---	---	---	---	---	---	---	---
75.....	13.64	---	---	---	---	---	---	---	---	---	---	---
80.....	10.40	---	---	---	---	---	---	---	---	---	---	---
85.....	7.60	---	---	---	---	---	---	---	---	---	---	---
90.....	5.37	---	---	---	---	---	---	---	---	---	---	---
95.....	3.76	---	---	---	---	---	---	---	---	---	---	---
100.....	2.68	---	---	---	---	---	---	---	---	---	---	---
<b>Hispanic male</b>												
0.....	78.83	---	---	---	---	---	---	---	---	---	---	---
1.....	78.27	---	---	---	---	---	---	---	---	---	---	---
5.....	74.35	---	---	---	---	---	---	---	---	---	---	---
10.....	69.39	---	---	---	---	---	---	---	---	---	---	---
15.....	64.43	---	---	---	---	---	---	---	---	---	---	---
20.....	59.61	---	---	---	---	---	---	---	---	---	---	---
25.....	54.88	---	---	---	---	---	---	---	---	---	---	---
30.....	50.15	---	---	---	---	---	---	---	---	---	---	---
35.....	45.42	---	---	---	---	---	---	---	---	---	---	---
40.....	40.70	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.



**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Hispanic male—Con.												
45. ....	36.07	---	---	---	---	---	---	---	---	---	---	---
50. ....	31.57	---	---	---	---	---	---	---	---	---	---	---
55. ....	27.27	---	---	---	---	---	---	---	---	---	---	---
60. ....	23.19	---	---	---	---	---	---	---	---	---	---	---
65. ....	19.30	---	---	---	---	---	---	---	---	---	---	---
70. ....	15.65	---	---	---	---	---	---	---	---	---	---	---
75. ....	12.28	---	---	---	---	---	---	---	---	---	---	---
80. ....	9.24	---	---	---	---	---	---	---	---	---	---	---
85. ....	6.67	---	---	---	---	---	---	---	---	---	---	---
90. ....	4.67	---	---	---	---	---	---	---	---	---	---	---
95. ....	3.27	---	---	---	---	---	---	---	---	---	---	---
100. ....	2.37	---	---	---	---	---	---	---	---	---	---	---
Hispanic female												
0. ....	84.05	---	---	---	---	---	---	---	---	---	---	---
1. ....	83.45	---	---	---	---	---	---	---	---	---	---	---
5. ....	79.53	---	---	---	---	---	---	---	---	---	---	---
10. ....	74.56	---	---	---	---	---	---	---	---	---	---	---
15. ....	69.60	---	---	---	---	---	---	---	---	---	---	---
20. ....	64.68	---	---	---	---	---	---	---	---	---	---	---
25. ....	59.79	---	---	---	---	---	---	---	---	---	---	---
30. ....	54.89	---	---	---	---	---	---	---	---	---	---	---
35. ....	50.01	---	---	---	---	---	---	---	---	---	---	---
40. ....	45.15	---	---	---	---	---	---	---	---	---	---	---
45. ....	40.36	---	---	---	---	---	---	---	---	---	---	---
50. ....	35.69	---	---	---	---	---	---	---	---	---	---	---
55. ....	31.12	---	---	---	---	---	---	---	---	---	---	---
60. ....	26.69	---	---	---	---	---	---	---	---	---	---	---
65. ....	22.43	---	---	---	---	---	---	---	---	---	---	---
70. ....	18.34	---	---	---	---	---	---	---	---	---	---	---
75. ....	14.48	---	---	---	---	---	---	---	---	---	---	---
80. ....	11.02	---	---	---	---	---	---	---	---	---	---	---
85. ....	7.99	---	---	---	---	---	---	---	---	---	---	---
90. ....	5.57	---	---	---	---	---	---	---	---	---	---	---
95. ....	3.82	---	---	---	---	---	---	---	---	---	---	---
100. ....	2.67	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Non-Hispanic white</b>												
0.....	78.71	---	---	---	---	---	---	---	---	---	---	---
1.....	78.12	---	---	---	---	---	---	---	---	---	---	---
5.....	74.19	---	---	---	---	---	---	---	---	---	---	---
10.....	69.23	---	---	---	---	---	---	---	---	---	---	---
15.....	64.27	---	---	---	---	---	---	---	---	---	---	---
20.....	59.42	---	---	---	---	---	---	---	---	---	---	---
25.....	54.67	---	---	---	---	---	---	---	---	---	---	---
30.....	49.92	---	---	---	---	---	---	---	---	---	---	---
35.....	45.20	---	---	---	---	---	---	---	---	---	---	---
40.....	40.51	---	---	---	---	---	---	---	---	---	---	---
45.....	35.91	---	---	---	---	---	---	---	---	---	---	---
50.....	31.45	---	---	---	---	---	---	---	---	---	---	---
55.....	27.17	---	---	---	---	---	---	---	---	---	---	---
60.....	23.04	---	---	---	---	---	---	---	---	---	---	---
65.....	19.09	---	---	---	---	---	---	---	---	---	---	---
70.....	15.40	---	---	---	---	---	---	---	---	---	---	---
75.....	12.01	---	---	---	---	---	---	---	---	---	---	---
80.....	9.01	---	---	---	---	---	---	---	---	---	---	---
85.....	6.46	---	---	---	---	---	---	---	---	---	---	---
90.....	4.48	---	---	---	---	---	---	---	---	---	---	---
95.....	3.10	---	---	---	---	---	---	---	---	---	---	---
100.....	2.20	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic white male</b>												
0.....	76.30	---	---	---	---	---	---	---	---	---	---	---
1.....	75.73	---	---	---	---	---	---	---	---	---	---	---
5.....	71.82	---	---	---	---	---	---	---	---	---	---	---
10.....	66.87	---	---	---	---	---	---	---	---	---	---	---
15.....	61.92	---	---	---	---	---	---	---	---	---	---	---
20.....	57.11	---	---	---	---	---	---	---	---	---	---	---
25.....	52.46	---	---	---	---	---	---	---	---	---	---	---
30.....	47.80	---	---	---	---	---	---	---	---	---	---	---
35.....	43.15	---	---	---	---	---	---	---	---	---	---	---
40.....	38.52	---	---	---	---	---	---	---	---	---	---	---
45.....	33.99	---	---	---	---	---	---	---	---	---	---	---
50.....	29.62	---	---	---	---	---	---	---	---	---	---	---
55.....	25.46	---	---	---	---	---	---	---	---	---	---	---
60.....	21.50	---	---	---	---	---	---	---	---	---	---	---
65.....	17.71	---	---	---	---	---	---	---	---	---	---	---
70.....	14.18	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Non-Hispanic white male—Con.</b>												
75.....	10.96	---	---	---	---	---	---	---	---	---	---	---
80.....	8.12	---	---	---	---	---	---	---	---	---	---	---
85.....	5.76	---	---	---	---	---	---	---	---	---	---	---
90.....	3.97	---	---	---	---	---	---	---	---	---	---	---
95.....	2.75	---	---	---	---	---	---	---	---	---	---	---
100.....	1.99	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic white female</b>												
0.....	81.06	---	---	---	---	---	---	---	---	---	---	---
1.....	80.44	---	---	---	---	---	---	---	---	---	---	---
5.....	76.50	---	---	---	---	---	---	---	---	---	---	---
10.....	71.53	---	---	---	---	---	---	---	---	---	---	---
15.....	66.57	---	---	---	---	---	---	---	---	---	---	---
20.....	61.66	---	---	---	---	---	---	---	---	---	---	---
25.....	56.80	---	---	---	---	---	---	---	---	---	---	---
30.....	51.96	---	---	---	---	---	---	---	---	---	---	---
35.....	47.15	---	---	---	---	---	---	---	---	---	---	---
40.....	42.39	---	---	---	---	---	---	---	---	---	---	---
45.....	37.71	---	---	---	---	---	---	---	---	---	---	---
50.....	33.15	---	---	---	---	---	---	---	---	---	---	---
55.....	28.72	---	---	---	---	---	---	---	---	---	---	---
60.....	24.40	---	---	---	---	---	---	---	---	---	---	---
65.....	20.26	---	---	---	---	---	---	---	---	---	---	---
70.....	16.38	---	---	---	---	---	---	---	---	---	---	---
75.....	12.80	---	---	---	---	---	---	---	---	---	---	---
80.....	9.60	---	---	---	---	---	---	---	---	---	---	---
85.....	6.85	---	---	---	---	---	---	---	---	---	---	---
90.....	4.71	---	---	---	---	---	---	---	---	---	---	---
95.....	3.20	---	---	---	---	---	---	---	---	---	---	---
100.....	2.24	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic black</b>												
0.....	74.65	---	---	---	---	---	---	---	---	---	---	---
1.....	74.54	---	---	---	---	---	---	---	---	---	---	---
5.....	70.66	---	---	---	---	---	---	---	---	---	---	---
10.....	65.73	---	---	---	---	---	---	---	---	---	---	---
15.....	60.79	---	---	---	---	---	---	---	---	---	---	---
20.....	56.00	---	---	---	---	---	---	---	---	---	---	---
25.....	51.36	---	---	---	---	---	---	---	---	---	---	---
30.....	46.73	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Non-Hispanic black—Con.</b>												
35.....	42.12	---	---	---	---	---	---	---	---	---	---	---
40.....	37.56	---	---	---	---	---	---	---	---	---	---	---
45.....	33.11	---	---	---	---	---	---	---	---	---	---	---
50.....	28.85	---	---	---	---	---	---	---	---	---	---	---
55.....	24.87	---	---	---	---	---	---	---	---	---	---	---
60.....	21.18	---	---	---	---	---	---	---	---	---	---	---
65.....	17.71	---	---	---	---	---	---	---	---	---	---	---
70.....	14.50	---	---	---	---	---	---	---	---	---	---	---
75.....	11.56	---	---	---	---	---	---	---	---	---	---	---
80.....	8.95	---	---	---	---	---	---	---	---	---	---	---
85.....	6.75	---	---	---	---	---	---	---	---	---	---	---
90.....	5.02	---	---	---	---	---	---	---	---	---	---	---
95.....	3.72	---	---	---	---	---	---	---	---	---	---	---
100.....	2.80	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic black male</b>												
0.....	71.41	---	---	---	---	---	---	---	---	---	---	---
1.....	71.35	---	---	---	---	---	---	---	---	---	---	---
5.....	67.47	---	---	---	---	---	---	---	---	---	---	---
10.....	62.53	---	---	---	---	---	---	---	---	---	---	---
15.....	57.59	---	---	---	---	---	---	---	---	---	---	---
20.....	52.89	---	---	---	---	---	---	---	---	---	---	---
25.....	48.41	---	---	---	---	---	---	---	---	---	---	---
30.....	43.92	---	---	---	---	---	---	---	---	---	---	---
35.....	39.41	---	---	---	---	---	---	---	---	---	---	---
40.....	34.94	---	---	---	---	---	---	---	---	---	---	---
45.....	30.56	---	---	---	---	---	---	---	---	---	---	---
50.....	26.37	---	---	---	---	---	---	---	---	---	---	---
55.....	22.51	---	---	---	---	---	---	---	---	---	---	---
60.....	19.04	---	---	---	---	---	---	---	---	---	---	---
65.....	15.82	---	---	---	---	---	---	---	---	---	---	---
70.....	12.86	---	---	---	---	---	---	---	---	---	---	---
75.....	10.16	---	---	---	---	---	---	---	---	---	---	---
80.....	7.81	---	---	---	---	---	---	---	---	---	---	---
85.....	5.89	---	---	---	---	---	---	---	---	---	---	---
90.....	4.44	---	---	---	---	---	---	---	---	---	---	---
95.....	3.36	---	---	---	---	---	---	---	---	---	---	---
100.....	2.59	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 21. Life expectancy, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Average number of years of life remaining ( $e_x$ )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Non-Hispanic black female												
0.....	77.62	---	---	---	---	---	---	---	---	---	---	---
1.....	77.44	---	---	---	---	---	---	---	---	---	---	---
5.....	73.55	---	---	---	---	---	---	---	---	---	---	---
10.....	68.61	---	---	---	---	---	---	---	---	---	---	---
15.....	63.66	---	---	---	---	---	---	---	---	---	---	---
20.....	58.77	---	---	---	---	---	---	---	---	---	---	---
25.....	53.95	---	---	---	---	---	---	---	---	---	---	---
30.....	49.17	---	---	---	---	---	---	---	---	---	---	---
35.....	44.45	---	---	---	---	---	---	---	---	---	---	---
40.....	39.80	---	---	---	---	---	---	---	---	---	---	---
45.....	35.28	---	---	---	---	---	---	---	---	---	---	---
50.....	30.93	---	---	---	---	---	---	---	---	---	---	---
55.....	26.80	---	---	---	---	---	---	---	---	---	---	---
60.....	22.87	---	---	---	---	---	---	---	---	---	---	---
65.....	19.13	---	---	---	---	---	---	---	---	---	---	---
70.....	15.64	---	---	---	---	---	---	---	---	---	---	---
75.....	12.43	---	---	---	---	---	---	---	---	---	---	---
80.....	9.55	---	---	---	---	---	---	---	---	---	---	---
85.....	7.14	---	---	---	---	---	---	---	---	---	---	---
90.....	5.22	---	---	---	---	---	---	---	---	---	---	---
95.....	3.80	---	---	---	---	---	---	---	---	---	---	---
100.....	2.79	---	---	---	---	---	---	---	---	---	---	---

--- Data not available.

<sup>1</sup>For 1939–1941 and 1949–1951, data shown are for the entire nonwhite population. During these periods, life tables were not constructed for the black population.

SOURCE: NCHS, National Vital Statistics System, Mortality.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>All races</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,382	99,305	99,064	98,740	97,998	97,407	97,024	95,290	94,028	92,515	88,538	87,552
5.....	99,276	99,176	98,877	98,495	97,668	96,998	96,482	94,220	91,978	83,389	83,887	81,804
10.....	99,217	99,097	98,766	98,347	97,460	96,765	96,177	93,710	91,106	88,129	82,458	80,052
15.....	99,145	98,998	98,635	98,196	97,261	96,551	95,885	93,235	90,385	87,144	81,506	78,963
20.....	98,899	98,664	98,215	97,741	96,716	96,111	95,366	92,435	89,089	85,441	80,074	77,239
25.....	98,467	98,203	97,671	97,110	96,000	95,517	94,676	91,335	87,269	83,146	78,046	74,768
30.....	97,990	97,751	97,070	96,477	95,307	94,905	93,919	90,078	85,302	80,642	75,779	72,043
35.....	97,443	97,201	96,322	95,808	94,482	94,144	92,976	88,573	83,118	77,961	73,127	69,078
40.....	96,761	96,422	95,373	94,926	93,322	93,064	91,648	86,650	80,557	75,114	70,042	65,890
45.....	95,769	95,274	94,154	93,599	91,587	91,378	89,634	84,069	77,343	72,036	66,561	62,436
50.....	94,226	93,601	92,370	91,526	88,972	88,756	86,591	80,487	73,321	68,429	62,460	58,514
55.....	91,908	91,232	89,658	88,348	85,110	84,711	82,176	75,557	68,182	63,947	57,555	53,852
60.....	88,666	87,642	85,537	83,726	79,529	79,067	75,921	68,924	61,563	58,079	51,138	47,946
65.....	84,222	82,330	79,519	77,107	71,933	71,147	67,555	60,366	53,195	50,560	43,194	40,911
70.....	77,958	74,891	71,357	68,248	61,984	60,857	56,987	49,655	42,768	41,090	33,816	32,390
75.....	69,175	64,644	60,449	56,799	49,705	48,170	43,903	36,735	30,789	29,729	23,552	22,960
80.....	57,081	50,885	47,084	43,180	35,285	33,576	29,313	22,883	18,580	18,298	13,712	13,529
85.....	41,400	34,515	31,770	27,960	20,908	18,542	15,785	11,073	8,542	8,683	6,001	6,053
90.....	23,587	18,496	17,046	14,154	9,297	7,080	6,144	3,796	2,998	2,941	1,868	1,867
95.....	8,976	6,879	6,282	5,043	2,786	1,524	1,511	857	636	646	361	344
100.....	1,882	1,479	1,424	1,150	542	183	199	123	62	67	40	31
<b>Male</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,326	99,239	98,961	98,607	97,755	97,087	96,661	94,762	93,440	91,745	87,505	86,426
5.....	99,209	99,095	98,754	98,333	97,395	96,643	96,077	93,624	91,294	88,505	82,718	80,548
10.....	99,144	99,008	98,627	98,160	97,151	96,375	95,726	93,054	90,346	87,184	81,249	78,775
15.....	99,061	98,890	98,464	97,972	96,904	96,107	95,366	92,508	89,561	86,156	80,261	77,681
20.....	98,716	98,426	97,854	97,316	96,126	95,491	94,695	91,617	88,220	84,440	78,792	75,984
25.....	98,085	97,747	97,049	96,361	95,040	94,631	93,791	90,385	86,359	82,252	76,675	73,472
30.....	97,415	97,114	96,166	95,430	94,072	93,826	92,861	89,009	84,346	79,890	74,378	70,747
35.....	96,690	96,385	95,091	94,501	92,997	92,889	91,760	87,371	82,075	77,514	71,614	67,752
40.....	95,832	95,389	93,761	93,345	91,541	91,572	90,207	85,246	79,357	74,432	68,297	64,447
45.....	94,622	93,940	92,139	91,649	89,369	89,492	87,819	82,336	75,882	71,244	64,518	60,849
50.....	92,746	91,818	89,865	89,007	86,070	86,199	84,158	78,254	71,518	67,553	60,118	56,736
55.....	89,902	88,897	86,492	84,936	81,139	81,039	78,781	72,627	65,981	62,965	54,970	51,939
60.....	85,868	84,551	81,378	79,012	73,958	73,887	71,246	65,142	58,909	56,917	48,343	45,895
65.....	80,531	78,241	73,971	70,646	64,318	64,177	61,566	55,776	50,154	49,218	40,264	38,736
70.....	73,256	69,491	64,107	59,681	52,296	52,244	49,950	44,588	39,516	39,668	31,023	30,217
75.....	63,391	57,688	51,385	46,272	38,797	38,950	36,756	31,864	27,718	28,316	21,213	21,076

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Male—Con.</b>												
80.....	50,319	42,769	36,749	31,810	24,921	25,300	25,237	18,995	16,172	17,128	11,942	12,084
85.....	34,191	26,527	21,815	18,020	13,168	12,845	11,750	8,693	7,107	7,920	5,059	5,179
90.....	17,406	12,473	9,878	7,732	5,107	4,609	4,197	2,787	2,283	2,527	1,502	1,508
95.....	5,582	3,855	2,927	2,279	1,326	970	955	586	451	556	289	262
100.....	930	645	529	423	222	117	121	78	40	62	33	22
<b>Female</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,441	99,375	99,172	98,880	98,254	97,744	97,406	95,848	94,728	93,383	89,623	88,733
5.....	99,347	99,261	99,006	98,666	97,955	97,371	96,908	94,848	92,789	90,380	85,117	83,119
10.....	99,294	99,190	98,911	98,544	97,784	97,173	96,652	94,402	92,008	89,186	83,728	81,390
15.....	99,234	99,111	98,814	98,432	97,636	97,016	96,431	94,000	91,364	88,247	82,813	80,307
20.....	99,090	98,915	98,597	98,184	97,331	96,756	96,066	93,293	90,116	86,556	81,418	78,555
25.....	98,868	98,682	98,325	97,883	96,966	96,418	95,583	92,322	88,328	84,135	79,481	76,119
30.....	98,588	98,418	98,013	97,551	96,544	95,996	94,933	91,182	86,398	81,463	77,247	73,394
35.....	98,222	98,052	97,596	97,140	95,966	95,409	94,206	89,810	84,304	78,713	74,719	70,463
40.....	97,719	97,493	97,033	96,531	95,097	94,560	93,101	88,092	81,927	75,907	71,894	67,407
45.....	96,946	96,648	96,222	95,570	93,793	93,265	91,469	85,856	79,041	72,954	68,755	64,121
50.....	95,736	95,425	94,932	94,060	91,852	91,327	89,075	82,828	75,456	69,452	65,001	60,415
55.....	93,943	93,609	92,881	91,760	89,066	88,451	85,694	78,708	70,832	65,099	60,392	55,908
60.....	91,483	90,767	89,742	88,414	85,139	84,430	80,890	73,093	64,795	59,438	54,226	50,155
65.....	87,926	86,433	85,075	83,520	79,698	78,462	74,119	65,523	56,924	52,126	46,438	43,246
70.....	82,656	80,219	78,522	76,720	71,955	70,100	64,873	55,449	46,774	42,741	36,916	34,721
75.....	74,912	71,311	69,287	67,186	61,107	58,394	52,111	42,425	34,600	31,344	26,155	24,994
80.....	63,700	58,455	56,986	54,372	46,445	43,063	36,486	27,524	21,578	19,613	15,682	15,129
85.....	48,233	41,830	41,115	37,772	29,538	25,269	20,668	13,972	10,322	9,515	7,051	7,063
90.....	29,121	23,936	23,666	20,578	14,160	10,056	8,548	5,044	3,656	3,314	2,269	2,306
95.....	11,858	9,560	9,346	7,862	4,565	2,193	2,207	1,195	807	728	441	452
100.....	2,642	2,183	2,251	1,927	954	264	298	179	82	72	49	43
<b>White</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,482	99,429	99,233	98,898	98,224	97,714	97,278	95,685	94,392	92,780	88,709	87,762
5.....	99,384	99,313	99,068	98,675	97,930	97,353	96,790	94,713	92,466	89,771	84,147	82,071
10.....	99,328	99,239	98,966	98,536	97,733	97,131	96,502	94,228	91,627	88,536	82,734	80,371
15.....	99,260	99,146	98,843	98,391	97,546	96,928	96,228	93,792	90,982	87,633	81,816	79,344
20.....	99,023	98,826	98,455	97,939	97,036	96,508	95,763	93,117	89,933	86,159	80,407	77,998
25.....	98,610	98,406	97,972	97,340	96,406	95,965	95,169	92,213	88,454	84,106	78,392	75,202
30.....	98,151	98,000	97,451	96,774	95,824	95,440	94,536	91,185	86,836	81,787	76,167	72,317
35.....	97,621	97,506	96,810	96,192	95,152	94,798	93,750	89,941	85,004	79,277	73,568	69,522

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>White—Con.</b>												
40.....	96,964	96,799	96,000	95,427	94,190	93,870	92,616	88,318	82,803	76,642	70,525	66,082
45.....	96,003	95,759	94,932	94,257	92,681	92,374	90,847	86,069	79,989	73,705	67,090	62,920
50.....	94,505	94,242	93,326	92,384	90,306	89,958	88,110	82,833	76,340	70,250	62,994	58,647
55.....	92,271	92,050	90,833	89,427	86,688	86,173	84,027	78,218	71,551	65,875	58,163	54,450
60.....	89,161	88,655	86,943	85,031	81,323	80,811	78,066	71,785	65,100	60,013	51,822	48,288
65.....	84,838	83,518	81,123	78,585	73,889	73,102	69,850	63,201	56,655	52,411	43,904	41,505
70.....	78,662	76,219	73,106	69,801	63,991	62,834	59,189	52,165	45,841	42,736	34,484	32,902
75.....	69,893	66,022	62,175	58,299	51,586	49,895	45,688	38,610	33,406	31,086	24,151	23,356
80.....	57,731	52,160	48,583	44,409	36,659	34,697	30,438	23,976	20,260	19,149	14,100	13,794
85.....	41,843	35,461	32,850	28,768	21,578	19,017	16,239	11,483	9,325	9,078	6,178	6,192
90.....	23,768	18,964	17,571	14,471	9,433	7,149	6,201	3,819	3,066	2,991	1,918	1,919
95.....	8,893	6,971	6,416	5,067	2,743	1,521	1,500	801	636	643	364	355
100.....	1,788	1,454	1,423	1,105	487	183	196	98	58	62	38	31
<b>White male</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,436	99,373	99,138	98,769	97,994	97,408	96,931	95,188	93,768	91,975	87,674	86,655
5.....	99,328	99,243	98,956	98,519	97,671	97,015	96,403	94,150	91,738	88,842	82,972	80,864
10.....	99,266	99,163	98,839	98,357	97,441	96,758	96,069	93,601	90,810	87,530	81,519	79,109
15.....	99,187	99,052	98,686	98,176	97,208	96,503	95,728	93,089	90,074	86,546	80,549	78,037
20.....	98,863	98,616	98,134	97,525	96,480	95,908	95,104	92,293	88,904	84,997	79,116	76,376
25.....	98,266	98,003	97,430	96,616	95,524	95,106	94,294	91,241	87,371	83,061	77,047	73,907
30.....	97,625	97,436	96,662	95,783	94,716	94,401	93,489	90,092	85,707	80,888	74,810	71,219
35.....	96,926	96,774	95,731	94,980	93,843	93,589	92,543	88,713	83,812	78,441	72,108	68,245
40.....	96,096	95,859	94,588	93,984	92,631	92,427	91,173	86,880	81,457	75,733	68,848	64,954
45.....	94,917	94,530	93,167	92,494	90,725	90,533	89,002	84,285	78,345	72,696	65,115	61,369
50.....	93,080	92,588	91,124	90,105	87,690	87,424	85,601	80,521	74,288	69,107	60,741	57,274
55.....	90,325	89,883	88,022	86,303	83,001	82,463	80,496	75,156	68,981	64,574	55,622	52,491
60.....	86,453	85,773	83,182	80,625	75,969	75,485	73,172	67,787	61,933	58,498	48,987	46,452
65.....	81,277	79,657	75,962	72,393	66,343	65,834	63,541	58,305	52,964	50,663	40,862	39,245
70.....	74,118	71,039	66,181	61,384	54,138	53,825	51,735	46,739	41,880	40,873	31,527	30,640
75.....	64,273	59,245	53,308	47,712	40,324	40,207	38,104	33,404	29,471	29,205	21,585	21,387
80.....	51,115	44,121	38,245	32,788	25,885	25,993	24,005	19,860	17,221	17,655	12,160	12,266
85.....	34,726	27,425	22,720	18,538	13,527	13,065	12,015	9,013	7,572	8,154	5,145	5,252
90.....	17,667	12,840	10,214	7,891	5,125	4,600	4,209	2,812	2,356	2,568	1,523	1,523
95.....	5,529	3,899	2,988	2,279	1,274	956	942	552	461	556	289	263
100.....	866	625	523	404	189	115	118	65	40	61	31	22

See footnotes at end of table.



**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>White female</b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	99,530	99,488	99,333	99,035	98,468	98,036	97,645	96,211	95,037	93,608	89,774	88,939
5.....	99,443	99,385	99,187	98,841	98,203	97,709	97,199	95,309	93,216	90,721	85,349	83,426
10.....	99,393	99,319	99,099	98,725	98,042	97,525	96,960	94,890	92,466	89,564	83,979	81,723
15.....	99,337	99,245	99,007	98,618	97,902	97,375	96,756	94,534	91,894	88,712	83,093	80,680
20.....	99,193	99,049	98,795	98,374	97,618	97,135	96,454	93,984	90,939	87,281	81,750	78,978
25.....	98,975	98,835	98,547	98,093	97,299	96,844	96,072	93,228	89,524	85,163	79,865	76,588
30.....	98,705	98,602	98,283	97,802	96,945	96,499	95,605	92,320	87,972	82,740	77,676	73,887
35.....	98,353	98,282	97,939	97,445	96,474	96,026	94,977	91,211	86,248	80,206	75,200	70,971
40.....	97,876	97,790	97,472	96,913	95,762	95,326	94,080	89,805	84,256	77,624	72,425	67,935
45.....	97,140	97,049	96,768	96,065	94,649	94,228	92,725	87,920	81,780	74,871	69,341	64,677
50.....	95,989	95,962	95,608	94,710	92,924	92,522	90,685	85,267	78,572	71,547	65,629	61,005
55.....	94,284	94,293	93,730	92,594	90,383	89,967	87,699	81,520	74,321	67,323	61,053	56,509
60.....	91,942	91,615	90,789	89,451	86,726	86,339	83,279	76,200	68,462	61,704	54,900	50,752
65.....	88,483	87,449	86,339	84,764	81,579	80,739	76,773	68,701	60,499	54,299	47,086	43,806
70.....	83,283	81,400	79,984	78,139	74,101	72,507	67,545	58,363	49,932	44,638	37,482	35,206
75.....	75,561	72,595	70,834	68,712	63,290	60,461	54,397	44,685	37,024	32,777	26,569	25,362
80.....	64,295	59,721	58,454	55,770	48,182	44,676	38,026	28,882	23,053	20,492	15,929	15,349
85.....	48,673	42,848	42,274	38,774	30,490	26,046	21,348	14,487	10,937	9,909	7,152	7,149
90.....	29,308	24,491	24,270	20,996	14,406	10,219	8,662	5,061	3,719	3,372	2,291	2,322
95.....	11,762	9,680	9,495	7,900	4,526	2,203	2,200	1,109	797	721	434	448
100.....	2,524	2,147	2,239	1,858	872	265	294	139	74	63	44	41
<b>Black<sup>1</sup></b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	98,811	98,578	98,187	97,885	96,731	95,732	95,407	92,584	92,035	90,379	79,784	76,609
5.....	98,653	98,382	97,884	97,522	96,207	95,051	94,482	90,983	89,303	86,174	70,691	66,222
10.....	98,572	98,271	97,720	97,322	95,928	94,745	94,060	90,339	88,258	84,690	68,437	63,410
15.....	98,477	98,139	97,539	97,134	95,661	94,460	93,646	89,591	87,156	83,180	66,410	61,060
20.....	98,152	97,701	96,925	96,652	94,887	93,880	92,738	87,839	84,386	79,641	63,165	57,931
25.....	97,541	96,946	95,972	95,804	93,513	92,925	91,321	85,210	80,320	74,973	59,608	54,512
30.....	96,844	96,143	94,809	94,680	91,934	91,699	89,584	82,194	75,962	70,492	56,112	51,287
35.....	96,042	95,164	93,260	93,288	89,977	90,046	87,402	78,683	71,141	65,865	52,125	48,007
40.....	95,037	93,809	91,239	91,439	87,304	87,766	84,478	74,466	65,974	61,244	47,866	44,518
45.....	93,621	91,770	88,689	88,834	83,700	84,501	80,507	69,284	59,827	56,442	43,054	40,628
50.....	91,476	88,761	85,285	85,044	78,938	80,172	74,976	62,702	53,141	51,422	37,800	36,103
55.....	88,157	84,657	80,635	79,816	72,826	73,893	67,660	54,846	45,558	45,803	32,233	31,404
60.....	83,380	79,007	74,335	72,913	65,250	65,795	58,593	46,318	37,654	39,418	26,046	25,698
65.....	77,159	71,704	66,154	64,391	56,102	56,038	48,649	37,838	30,015	32,738	19,806	20,474
70.....	69,195	62,349	56,192	54,617	45,785	45,434	38,616	29,654	22,505	25,585	14,021	14,960
75.....	59,212	50,987	44,872	43,274	34,262	34,531	28,968	21,798	15,546	18,011	9,139	9,956

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Black<sup>1</sup>—Con.</b>												
80.....	46,954	37,964	33,149	31,711	23,710	24,815	20,003	14,408	9,589	11,376	5,158	5,750
85.....	32,785	24,677	21,352	19,939	15,044	15,337	12,433	8,326	4,900	5,794	2,414	2,782
90.....	18,692	13,204	11,646	10,713	8,087	7,195	6,394	4,077	2,044	2,317	913	1,054
95.....	7,895	5,368	4,729	4,463	3,252	1,777	2,010	1,557	638	689	324	296
100.....	2,199	1,491	1,376	1,360	1,036	214	301	399	120	129	77	57
<b>Black male<sup>1</sup></b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	98,690	98,437	98,023	97,703	96,394	95,301	94,911	91,772	91,268	89,499	78,065	74,674
5.....	98,517	98,219	97,688	97,300	95,826	94,570	93,921	90,082	88,412	85,195	68,589	64,385
10.....	98,428	98,093	97,501	97,061	95,497	94,234	93,453	89,393	87,311	83,768	66,377	61,730
15.....	98,315	97,930	97,268	96,826	95,161	93,874	92,965	88,610	86,152	82,332	64,478	59,667
20.....	97,827	97,275	96,301	96,132	94,053	93,108	91,941	86,968	83,621	79,057	61,426	56,733
25.....	96,890	96,103	94,809	94,827	91,904	91,825	90,285	84,227	79,516	74,540	57,736	53,285
30.....	95,872	94,940	93,070	93,125	89,584	90,270	88,327	80,979	75,083	70,344	54,073	49,867
35.....	94,786	93,641	90,827	91,080	86,885	88,331	85,940	77,221	70,049	65,873	49,865	46,541
40.....	93,527	91,945	87,948	88,490	83,441	85,744	82,832	72,780	64,710	61,353	45,414	42,989
45.....	91,842	89,439	84,467	84,997	78,976	82,075	78,686	67,346	58,432	56,589	40,563	39,230
50.....	89,335	85,653	79,984	80,065	73,282	77,239	72,891	60,495	51,748	51,880	35,427	34,766
55.....	85,350	80,529	74,095	73,413	66,101	70,351	65,122	52,426	44,436	46,581	29,754	29,987
60.....	79,409	73,588	66,334	64,980	57,457	61,669	55,535	43,833	36,790	40,506	23,750	24,194
65.....	71,797	64,980	56,795	55,061	47,485	51,392	45,198	35,371	29,314	34,042	17,806	19,015
70.....	62,428	54,253	45,690	44,213	36,925	39,914	35,018	27,236	21,741	26,923	12,295	13,829
75.....	51,225	41,693	33,755	32,717	25,921	29,064	25,472	19,456	14,419	18,854	7,494	8,892
80.....	38,187	28,497	22,549	22,017	16,560	19,994	16,904	12,186	8,239	11,615	3,894	4,831
85.....	24,232	16,532	12,709	12,383	9,648	11,620	9,898	6,444	3,660	5,605	1,747	2,030
90.....	12,127	7,625	5,972	5,708	4,696	5,174	4,642	2,836	1,246	2,040	595	634
95.....	4,375	2,565	1,971	2,009	1,721	1,240	1,342	961	307	552	189	137
100.....	1,024	563	466	513	489	149	192	209	41	77	40	18
<b>Black female<sup>1</sup></b>												
0.....	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1.....	98,936	98,723	98,356	98,073	97,076	96,172	95,913	93,416	92,796	91,251	81,493	78,525
5.....	98,793	98,550	98,087	97,751	96,598	95,543	95,055	91,906	90,185	87,149	72,768	68,056
10.....	98,722	98,456	97,946	97,590	96,369	95,265	94,679	91,308	89,201	85,607	70,508	65,111
15.....	98,644	98,354	97,818	97,450	96,172	95,057	94,343	90,594	88,088	83,954	68,218	62,384
20.....	98,488	98,141	97,566	97,180	95,729	94,660	93,544	88,736	85,078	80,154	64,764	59,053
25.....	98,199	97,785	97,140	96,754	95,035	94,005	92,336	86,198	81,067	75,359	61,430	55,795
30.....	97,804	97,314	96,514	96,150	94,114	93,070	90,799	83,384	76,816	70,633	58,281	52,773
35.....	97,262	96,632	95,599	95,338	92,807	91,670	88,805	80,092	72,192	65,857	54,595	49,567
40.....	96,490	95,588	94,364	94,137	90,817	89,676	86,052	76,084	67,271	61,130	50,568	46,146

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Black female<sup>1</sup>—Con.</b>												
45.....	95,322	93,979	92,676	92,322	88,001	86,793	82,257	71,157	61,365	56,230	45,947	42,279
50.....	93,512	91,680	90,277	89,563	84,168	82,979	77,007	64,885	54,920	50,780	40,886	37,681
55.....	90,808	88,517	86,793	85,653	79,177	77,362	70,196	57,314	47,074	44,742	35,415	33,124
60.....	87,088	84,044	81,886	80,293	72,820	69,941	61,758	48,928	38,761	37,954	28,908	27,524
65.....	82,133	77,941	75,031	73,266	64,716	60,825	52,358	40,504	30,852	31,044	22,302	21,995
70.....	75,421	69,778	66,278	64,729	54,873	51,274	42,612	32,354	23,341	24,107	15,871	16,140
75.....	66,513	59,361	55,684	53,831	43,193	40,540	32,981	24,502	16,576	17,216	10,657	11,066
80.....	54,849	46,453	43,622	41,686	31,756	30,315	23,712	17,039	10,822	11,151	6,324	6,708
85.....	40,171	32,053	30,089	28,004	21,358	19,744	15,550	10,622	6,033	5,972	3,029	3,567
90.....	24,212	18,347	17,536	16,260	12,210	9,675	8,590	5,652	2,774	2,579	1,206	1,492
95.....	10,790	7,989	7,687	7,312	5,217	2,438	2,875	2,345	941	818	448	462
100.....	3,115	2,351	2,364	2,398	1,803	293	445	659	193	179	112	97
<b>Hispanic</b>												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	99,481	---	---	---	---	---	---	---	---	---	---	---
5.....	99,386	---	---	---	---	---	---	---	---	---	---	---
10.....	99,336	---	---	---	---	---	---	---	---	---	---	---
15.....	99,274	---	---	---	---	---	---	---	---	---	---	---
20.....	99,069	---	---	---	---	---	---	---	---	---	---	---
25.....	98,737	---	---	---	---	---	---	---	---	---	---	---
30.....	98,384	---	---	---	---	---	---	---	---	---	---	---
35.....	97,993	---	---	---	---	---	---	---	---	---	---	---
40.....	97,516	---	---	---	---	---	---	---	---	---	---	---
45.....	96,817	---	---	---	---	---	---	---	---	---	---	---
50.....	95,671	---	---	---	---	---	---	---	---	---	---	---
55.....	93,915	---	---	---	---	---	---	---	---	---	---	---
60.....	91,341	---	---	---	---	---	---	---	---	---	---	---
65.....	87,686	---	---	---	---	---	---	---	---	---	---	---
70.....	82,614	---	---	---	---	---	---	---	---	---	---	---
75.....	75,421	---	---	---	---	---	---	---	---	---	---	---
80.....	65,037	---	---	---	---	---	---	---	---	---	---	---
85.....	50,694	---	---	---	---	---	---	---	---	---	---	---
90.....	32,741	---	---	---	---	---	---	---	---	---	---	---
95.....	15,271	---	---	---	---	---	---	---	---	---	---	---
100.....	4,351	---	---	---	---	---	---	---	---	---	---	---
<b>Hispanic male</b>												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	99,440	---	---	---	---	---	---	---	---	---	---	---
5.....	99,341	---	---	---	---	---	---	---	---	---	---	---
10.....	99,288	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Hispanic male—Con.												
15.....	99,219	---	---	---	---	---	---	---	---	---	---	---
20.....	98,933	---	---	---	---	---	---	---	---	---	---	---
25.....	98,464	---	---	---	---	---	---	---	---	---	---	---
30.....	97,960	---	---	---	---	---	---	---	---	---	---	---
35.....	97,415	---	---	---	---	---	---	---	---	---	---	---
40.....	96,767	---	---	---	---	---	---	---	---	---	---	---
45.....	95,857	---	---	---	---	---	---	---	---	---	---	---
50.....	94,420	---	---	---	---	---	---	---	---	---	---	---
55.....	92,185	---	---	---	---	---	---	---	---	---	---	---
60.....	88,872	---	---	---	---	---	---	---	---	---	---	---
65.....	84,314	---	---	---	---	---	---	---	---	---	---	---
70.....	78,003	---	---	---	---	---	---	---	---	---	---	---
75.....	69,342	---	---	---	---	---	---	---	---	---	---	---
80.....	57,652	---	---	---	---	---	---	---	---	---	---	---
85.....	42,222	---	---	---	---	---	---	---	---	---	---	---
90.....	24,534	---	---	---	---	---	---	---	---	---	---	---
95.....	9,642	---	---	---	---	---	---	---	---	---	---	---
100.....	2,153	---	---	---	---	---	---	---	---	---	---	---
Hispanic female												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	99,523	---	---	---	---	---	---	---	---	---	---	---
5.....	99,435	---	---	---	---	---	---	---	---	---	---	---
10.....	99,389	---	---	---	---	---	---	---	---	---	---	---
15.....	99,335	---	---	---	---	---	---	---	---	---	---	---
20.....	99,219	---	---	---	---	---	---	---	---	---	---	---
25.....	99,049	---	---	---	---	---	---	---	---	---	---	---
30.....	98,864	---	---	---	---	---	---	---	---	---	---	---
35.....	98,642	---	---	---	---	---	---	---	---	---	---	---
40.....	98,344	---	---	---	---	---	---	---	---	---	---	---
45.....	97,868	---	---	---	---	---	---	---	---	---	---	---
50.....	97,026	---	---	---	---	---	---	---	---	---	---	---
55.....	95,759	---	---	---	---	---	---	---	---	---	---	---
60.....	93,903	---	---	---	---	---	---	---	---	---	---	---
65.....	91,092	---	---	---	---	---	---	---	---	---	---	---
70.....	87,103	---	---	---	---	---	---	---	---	---	---	---
75.....	81,164	---	---	---	---	---	---	---	---	---	---	---
80.....	71,827	---	---	---	---	---	---	---	---	---	---	---
85.....	58,105	---	---	---	---	---	---	---	---	---	---	---
90.....	39,328	---	---	---	---	---	---	---	---	---	---	---
95.....	19,275	---	---	---	---	---	---	---	---	---	---	---
100.....	5,658	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Non-Hispanic white												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	99,483	---	---	---	---	---	---	---	---	---	---	---
5.....	99,387	---	---	---	---	---	---	---	---	---	---	---
10.....	99,331	---	---	---	---	---	---	---	---	---	---	---
15.....	99,264	---	---	---	---	---	---	---	---	---	---	---
20.....	99,026	---	---	---	---	---	---	---	---	---	---	---
25.....	98,603	---	---	---	---	---	---	---	---	---	---	---
30.....	98,116	---	---	---	---	---	---	---	---	---	---	---
35.....	97,549	---	---	---	---	---	---	---	---	---	---	---
40.....	96,848	---	---	---	---	---	---	---	---	---	---	---
45.....	95,837	---	---	---	---	---	---	---	---	---	---	---
50.....	94,292	---	---	---	---	---	---	---	---	---	---	---
55.....	92,013	---	---	---	---	---	---	---	---	---	---	---
60.....	88,860	---	---	---	---	---	---	---	---	---	---	---
65.....	84,496	---	---	---	---	---	---	---	---	---	---	---
70.....	78,282	---	---	---	---	---	---	---	---	---	---	---
75.....	69,475	---	---	---	---	---	---	---	---	---	---	---
80.....	57,295	---	---	---	---	---	---	---	---	---	---	---
85.....	41,462	---	---	---	---	---	---	---	---	---	---	---
90.....	23,520	---	---	---	---	---	---	---	---	---	---	---
95.....	8,793	---	---	---	---	---	---	---	---	---	---	---
100.....	1,768	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic white male												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	99,436	---	---	---	---	---	---	---	---	---	---	---
5.....	99,319	---	---	---	---	---	---	---	---	---	---	---
10.....	99,251	---	---	---	---	---	---	---	---	---	---	---
15.....	99,167	---	---	---	---	---	---	---	---	---	---	---
20.....	98,845	---	---	---	---	---	---	---	---	---	---	---
25.....	98,232	---	---	---	---	---	---	---	---	---	---	---
30.....	97,553	---	---	---	---	---	---	---	---	---	---	---
35.....	96,811	---	---	---	---	---	---	---	---	---	---	---
40.....	95,931	---	---	---	---	---	---	---	---	---	---	---
45.....	94,697	---	---	---	---	---	---	---	---	---	---	---
50.....	92,813	---	---	---	---	---	---	---	---	---	---	---
55.....	90,020	---	---	---	---	---	---	---	---	---	---	---
60.....	86,114	---	---	---	---	---	---	---	---	---	---	---
65.....	80,916	---	---	---	---	---	---	---	---	---	---	---
70.....	73,747	---	---	---	---	---	---	---	---	---	---	---
75.....	63,896	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
<b>Non-Hispanic white male—Con.</b>												
80. ....	50,740	---	---	---	---	---	---	---	---	---	---	---
85. ....	34,408	---	---	---	---	---	---	---	---	---	---	---
90. ....	17,473	---	---	---	---	---	---	---	---	---	---	---
95. ....	5,461	---	---	---	---	---	---	---	---	---	---	---
100. ....	855	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic white female</b>												
0. ....	100,000	---	---	---	---	---	---	---	---	---	---	---
1. ....	99,532	---	---	---	---	---	---	---	---	---	---	---
5. ....	99,458	---	---	---	---	---	---	---	---	---	---	---
10. ....	99,415	---	---	---	---	---	---	---	---	---	---	---
15. ....	99,366	---	---	---	---	---	---	---	---	---	---	---
20. ....	99,216	---	---	---	---	---	---	---	---	---	---	---
25. ....	98,990	---	---	---	---	---	---	---	---	---	---	---
30. ....	98,700	---	---	---	---	---	---	---	---	---	---	---
35. ....	98,314	---	---	---	---	---	---	---	---	---	---	---
40. ....	97,795	---	---	---	---	---	---	---	---	---	---	---
45. ....	97,014	---	---	---	---	---	---	---	---	---	---	---
50. ....	95,814	---	---	---	---	---	---	---	---	---	---	---
55. ....	94,057	---	---	---	---	---	---	---	---	---	---	---
60. ....	91,667	---	---	---	---	---	---	---	---	---	---	---
65. ....	88,155	---	---	---	---	---	---	---	---	---	---	---
70. ....	82,902	---	---	---	---	---	---	---	---	---	---	---
75. ....	75,121	---	---	---	---	---	---	---	---	---	---	---
80. ....	63,823	---	---	---	---	---	---	---	---	---	---	---
85. ....	48,251	---	---	---	---	---	---	---	---	---	---	---
90. ....	29,020	---	---	---	---	---	---	---	---	---	---	---
95. ....	11,640	---	---	---	---	---	---	---	---	---	---	---
100. ....	2,497	---	---	---	---	---	---	---	---	---	---	---
<b>Non-Hispanic black</b>												
0. ....	100,000	---	---	---	---	---	---	---	---	---	---	---
1. ....	98,827	---	---	---	---	---	---	---	---	---	---	---
5. ....	98,657	---	---	---	---	---	---	---	---	---	---	---
10. ....	98,569	---	---	---	---	---	---	---	---	---	---	---
15. ....	98,465	---	---	---	---	---	---	---	---	---	---	---
20. ....	98,116	---	---	---	---	---	---	---	---	---	---	---
25. ....	97,453	---	---	---	---	---	---	---	---	---	---	---
30. ....	96,723	---	---	---	---	---	---	---	---	---	---	---
35. ....	95,882	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Non-Hispanic black—Con.												
40. ....	94,824	---	---	---	---	---	---	---	---	---	---	---
45. ....	93,339	---	---	---	---	---	---	---	---	---	---	---
50. ....	91,124	---	---	---	---	---	---	---	---	---	---	---
55. ....	87,721	---	---	---	---	---	---	---	---	---	---	---
60. ....	82,849	---	---	---	---	---	---	---	---	---	---	---
65. ....	76,518	---	---	---	---	---	---	---	---	---	---	---
70. ....	68,424	---	---	---	---	---	---	---	---	---	---	---
75. ....	58,352	---	---	---	---	---	---	---	---	---	---	---
80. ....	46,111	---	---	---	---	---	---	---	---	---	---	---
85. ....	32,085	---	---	---	---	---	---	---	---	---	---	---
90. ....	18,232	---	---	---	---	---	---	---	---	---	---	---
95. ....	7,685	---	---	---	---	---	---	---	---	---	---	---
100. ....	2,143	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic black male												
0. ....	100,000	---	---	---	---	---	---	---	---	---	---	---
1. ....	98,708	---	---	---	---	---	---	---	---	---	---	---
5. ....	98,536	---	---	---	---	---	---	---	---	---	---	---
10. ....	98,447	---	---	---	---	---	---	---	---	---	---	---
15. ....	98,336	---	---	---	---	---	---	---	---	---	---	---
20. ....	97,812	---	---	---	---	---	---	---	---	---	---	---
25. ....	96,797	---	---	---	---	---	---	---	---	---	---	---
30. ....	95,739	---	---	---	---	---	---	---	---	---	---	---
35. ....	94,613	---	---	---	---	---	---	---	---	---	---	---
40. ....	93,285	---	---	---	---	---	---	---	---	---	---	---
45. ....	91,518	---	---	---	---	---	---	---	---	---	---	---
50. ....	88,928	---	---	---	---	---	---	---	---	---	---	---
55. ....	84,847	---	---	---	---	---	---	---	---	---	---	---
60. ....	78,819	---	---	---	---	---	---	---	---	---	---	---
65. ....	71,116	---	---	---	---	---	---	---	---	---	---	---
70. ....	61,619	---	---	---	---	---	---	---	---	---	---	---
75. ....	50,347	---	---	---	---	---	---	---	---	---	---	---
80. ....	37,373	---	---	---	---	---	---	---	---	---	---	---
85. ....	23,639	---	---	---	---	---	---	---	---	---	---	---
90. ....	11,747	---	---	---	---	---	---	---	---	---	---	---
95. ....	4,221	---	---	---	---	---	---	---	---	---	---	---
100. ....	990	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

**Table 22. Survivorship, by age, race, Hispanic origin, and sex: Death-registration states, 1900–1902 to 1919–1921, and United States, 1929–1931 to 2009–2011—Con.**

[Alaska and Hawaii included beginning in 1959. For decennial periods before 1929–1931, data are for groups of registration states as follows: 1900–1902 and 1909–1911, 10 states and the District of Columbia; 1919–1921, 34 states and the District of Columbia. Beginning in 1970, excludes deaths of nonresidents of the United States]

Age, race, and sex	Number of survivors out of 100,000 born alive ( <i>lx</i> )											
	2009–2011	1999–2001	1989–1991	1979–1981	1969–1971	1959–1961	1949–1951	1939–1941	1929–1931	1919–1921	1909–1911	1900–1902
Non-Hispanic black female												
0.....	100,000	---	---	---	---	---	---	---	---	---	---	---
1.....	98,951	---	---	---	---	---	---	---	---	---	---	---
5.....	98,803	---	---	---	---	---	---	---	---	---	---	---
10.....	98,726	---	---	---	---	---	---	---	---	---	---	---
15.....	98,644	---	---	---	---	---	---	---	---	---	---	---
20.....	98,476	---	---	---	---	---	---	---	---	---	---	---
25.....	98,160	---	---	---	---	---	---	---	---	---	---	---
30.....	97,738	---	---	---	---	---	---	---	---	---	---	---
35.....	97,159	---	---	---	---	---	---	---	---	---	---	---
40.....	96,345	---	---	---	---	---	---	---	---	---	---	---
45.....	95,121	---	---	---	---	---	---	---	---	---	---	---
50.....	93,251	---	---	---	---	---	---	---	---	---	---	---
55.....	90,475	---	---	---	---	---	---	---	---	---	---	---
60.....	86,656	---	---	---	---	---	---	---	---	---	---	---
65.....	81,578	---	---	---	---	---	---	---	---	---	---	---
70.....	74,731	---	---	---	---	---	---	---	---	---	---	---
75.....	65,718	---	---	---	---	---	---	---	---	---	---	---
80.....	54,031	---	---	---	---	---	---	---	---	---	---	---
85.....	39,452	---	---	---	---	---	---	---	---	---	---	---
90.....	23,711	---	---	---	---	---	---	---	---	---	---	---
95.....	10,546	---	---	---	---	---	---	---	---	---	---	---
100.....	3,046	---	---	---	---	---	---	---	---	---	---	---

--- Data not available.

<sup>1</sup>For 1939–1941 and 1949–1951, data shown are for the entire nonwhite population. During these periods, life tables were not constructed for the black population.

SOURCE: NCHS, National Vital Statistics System, Mortality.



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