

## United States Life Tables, 2022

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### Abstract

**Objectives**—This report presents complete period life tables for the United States by Hispanic origin and race and sex, based on age-specific death rates in 2022.

**Methods**—Data used to prepare the 2022 life tables are 2022 final mortality statistics; July 1, 2022, population estimates based on the Blended Base population estimates produced by the U.S. Census Bureau; and 2022 Medicare data for people ages 66–99. The methodology used to estimate the life tables for the Hispanic population remains unchanged from that developed for the publication of life tables by Hispanic origin for data year 2006. The same methodology is used to estimate the life tables for the American Indian and Alaska Native non-Hispanic and Asian non-Hispanic populations. The methodology used to estimate the 2022 life tables for all other groups was first implemented with data year 2008.

**Results**—In 2022, the overall expectation of life at birth was 77.5 years, increasing 1.1 years from 76.4 in 2021. Between 2021 and 2022, life expectancy at birth increased by 1.3 year for males (from 73.5 to 74.8) and by 0.9 year for females (79.3 to 80.2). Between 2021 and 2022, life expectancy increased 2.2 years for the Hispanic (77.8 to 80.0) and the American Indian and Alaska Native non-Hispanic (65.6 to 67.8) populations. Life expectancy increased by 1.6 years for the Black non-Hispanic population (71.2 to 72.8), by 0.9 year for the Asian non-Hispanic population (83.5 to 84.4), and by 0.8 year for the White non-Hispanic population (76.7 to 77.5).

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

### Introduction

Life tables are of two types: the cohort (or generation) life table and the period (or current) life table. The cohort life table presents the mortality experience of a particular birth cohort—all people born in the year 1900, for example—from the moment of birth through consecutive ages in successive calendar years.

Based on age-specific death rates observed through consecutive calendar years, the cohort life table reflects the mortality experience of an actual cohort from birth until no lives remain in the group. To prepare just 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 (1). For example, a life table representation of the mortality experience of a cohort of people born in 1970 would require the use of data projection techniques to estimate deaths into the future (2,3).

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, a period life table for 2022 assumes a hypothetical cohort that is subject throughout its lifetime to the age-specific death rates prevailing for the actual population in 2022. Consequently, 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 in a given year. In this report, the term life table refers only to the period life table and not to the cohort life table.

Life tables can be classified in two ways according to the length of the age interval in which data are presented. A complete life table contains data for every single year of age. An abridged life table typically contains data by 5- or 10-year age intervals. A complete life table can easily be combined into 5- or 10-year age groups (Technical Notes for instructions). Other than the decennial life tables, U.S. life tables based on data before 1997 are abridged life tables constructed by reference to a standard table (4).

Complete period life tables by Hispanic origin and race based on the 1997 Office of Management and Budget revised standards for the reporting of race and ethnicity are presented in this report (5). Race categories differ from the bridged-race categories shown in previous reports for years 2000–2017. Comparisons between data years 2000–2017 and 2018–2022 should be interpreted considering these differences. Life expectancy estimates for bridged-race categories are included in this report for years 2006–2020 to document the effect of the

change in race standards and to show trends. Data year 2020 was the last year for which estimates for bridged-race categories were presented in this report. Hispanic origin is consistent with previous reports because the classification of Hispanic origin did not change between standards (5,6). In the remainder of this report, race refers to single race based on the 1997 standard (see Technical Notes and “Comparability of Race-specific Mortality Data Based on 1977 Versus 1997 Reporting Standards” for more information on differences between single- and bridged-race groups (7).

## Data and Methods

The data used to prepare the U.S. life tables for 2022 are final numbers of deaths for the year 2022; July 1, 2022, population estimates; and age-specific death and population counts for Medicare beneficiaries ages 66–99 for the year 2022 from the Centers for Medicare & Medicaid Services. Population estimates are based on the Blended Base produced by the U.S. Census Bureau instead of the April 1, 2020, decennial population count. The Blended Base consists of the blend of 2020 postcensal population estimates, based on the April 1, 2010, census; 2020 Demographic Analysis Estimates; and 2020 census data from the internal Census Edited File (<https://www2.census.gov/programs-surveys/popest/technical-documentation/methodology/2020-2022/methods-statement-v2022.pdf>). Data from the Medicare program were used to supplement vital statistics and census data for ages 66 and older for the total, Black non-Hispanic, and White non-Hispanic populations. Because reliable Medicare data were not available for the Hispanic, American Indian and Alaska Native non-Hispanic, and Asian non-Hispanic populations, statistical modeling was used to produce reliable old-age mortality estimates for these groups. The U.S. life tables by Hispanic origin and race are based on death rates that have been adjusted for race and ethnicity misclassification on death certificates using classification ratios (or correction factors) generated from studies that evaluate Hispanic-origin and race misclassification on death certificates in the United States (8–10) (see Technical Notes for a detailed description of the data sets and methodology used to estimate the life tables and life table partitioning by cause of death).

## 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 people who have reached a given age ( $x$ ). Life expectancy and other life table values for each age in 2022 are shown for the total population and by Hispanic origin and race and sex in [Tables 1–18](#). Life expectancy is summarized by age, Hispanic origin and race, and sex in [Table A](#).

Life expectancy at birth ( $e_0$ ) for 2022 for the total population was 77.5 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 A](#)).

## Survivors to specified ages

Another way of assessing the longevity of the period life table cohort is to determine the proportion that survives to specified ages. The  $l_x$  column of the life table provides the data for computing this proportion. [Table B](#) summarizes the number of survivors by age, Hispanic origin and race, and sex. To illustrate, 54,964 people out of the original 2022 hypothetical life table cohort of 100,000 (55.0%) were alive at exact age 80. In other words, the probability that a person will survive from birth to age 80, given 2022 age-specific mortality, is 55.0%. 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 (39,649) by the number of survivors at age 20 (98,887), which results in a 40.1% probability of survival.

## Explanation of the columns of the life table

*Column 1. Age* (between  $x$  and  $x + 1$ )—Shows the age interval between the two exact ages indicated. For instance, “20–21” means the 1-year interval between the 20th and 21st birthdays.

*Column 2. Probability of dying ( $q_x$ )*—Shows the probability of dying between ages  $x$  and  $x + 1$ . For example, for males in the age interval 20–21 years, the probability of dying is 0.001192 ([Table 2](#)). This column forms the basis of the life table; all subsequent columns are calculated from it.

*Column 3. Number surviving ( $l_x$ )*—Shows the number of people 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  $q_x$  values, which are successively applied to the remainder of the original 100,000 people still alive at the beginning of each age interval. Consequently, out of 100,000 female babies born alive, 99,488 will complete the first year of life and enter the second; 99,331 will reach age 10; 99,091 will reach age 20; and 46,871 will live to age 85 ([Table 3](#)).

*Column 4. Number dying ( $d_x$ )*—Shows the number dying in each successive age interval out of the original 100,000 live births. For example, out of 100,000 males born alive, 607 will die in the first year of life; 118 between ages 20 and 21; and 753 after reaching age 100 ([Table 2](#)). Each figure in column 4 is the difference between two successive figures in column 3.

*Column 5. Person-years lived ( $L_x$ )*—Shows the number of person-years lived by the hypothetical life table cohort within an age interval  $x$  to  $x + 1$ . Each figure in column 5 represents the total time (in years) lived between two indicated birthdays by all those reaching the earlier birthday. Consequently, the figure 98,634 for males in the age interval 20–21 is the total number of years lived between the 20th and 21st birthdays by the 98,693 males (column 3) who reached their 20th birthday out of 100,000 males born alive ([Table 2](#)).

*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  $x + 1$  by the hypothetical life table cohort. For example, 5,497,469 is the total number of years lived after reaching age 20 by the 98,693 males who reached that age ([Table 2](#)).

**Table A. Expectation of life, by age, Hispanic origin and race, and sex: United States, 2022**

| Age      | Non-Hispanic |      |        |          |      |        |                                   |      |        |       |      |        |       |      |        |       |      |        |
|----------|--------------|------|--------|----------|------|--------|-----------------------------------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|
|          | All origins  |      |        | Hispanic |      |        | American Indian and Alaska Native |      |        | Asian |      |        | Black |      |        | White |      |        |
|          | Total        | Male | Female | Total    | Male | Female | Total                             | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| 0.....   | 77.5         | 74.8 | 80.2   | 80.0     | 77.0 | 82.8   | 67.8                              | 64.5 | 71.3   | 84.4  | 82.3 | 86.3   | 72.8  | 69.1 | 76.5   | 77.5  | 75.1 | 80.1   |
| 1.....   | 76.9         | 74.3 | 79.6   | 79.4     | 76.4 | 82.2   | 67.4                              | 64.2 | 70.8   | 83.7  | 81.6 | 85.6   | 72.6  | 68.9 | 76.3   | 76.9  | 74.4 | 79.4   |
| 5.....   | 73.0         | 70.4 | 75.7   | 75.4     | 72.5 | 78.3   | 63.6                              | 60.4 | 67.0   | 79.8  | 77.7 | 81.6   | 68.8  | 65.1 | 72.4   | 72.9  | 70.5 | 75.5   |
| 10.....  | 68.0         | 65.4 | 70.7   | 70.5     | 67.5 | 73.3   | 58.7                              | 55.5 | 62.1   | 74.8  | 72.7 | 76.6   | 63.8  | 60.1 | 67.5   | 68.0  | 65.6 | 70.5   |
| 15.....  | 63.1         | 60.5 | 65.8   | 65.5     | 62.6 | 68.4   | 53.8                              | 50.6 | 57.2   | 69.8  | 67.8 | 71.7   | 58.9  | 55.2 | 62.6   | 63.0  | 60.6 | 65.6   |
| 20.....  | 58.3         | 55.7 | 60.9   | 60.7     | 57.8 | 63.5   | 49.2                              | 46.1 | 52.6   | 64.9  | 62.9 | 66.7   | 54.3  | 50.7 | 57.7   | 58.2  | 55.8 | 60.7   |
| 25.....  | 53.5         | 51.1 | 56.0   | 56.0     | 53.2 | 58.6   | 44.8                              | 41.8 | 48.0   | 60.1  | 58.0 | 61.8   | 49.8  | 46.4 | 53.0   | 53.4  | 51.1 | 55.8   |
| 30.....  | 48.9         | 46.6 | 51.3   | 51.3     | 48.7 | 53.8   | 40.7                              | 38.0 | 43.6   | 55.2  | 53.2 | 56.9   | 45.3  | 42.2 | 48.3   | 48.8  | 46.6 | 51.0   |
| 35.....  | 44.3         | 42.1 | 46.5   | 46.7     | 44.2 | 49.0   | 36.9                              | 34.3 | 39.6   | 50.4  | 48.4 | 52.0   | 40.9  | 38.0 | 43.7   | 44.2  | 42.1 | 46.3   |
| 40.....  | 39.8         | 37.7 | 41.9   | 42.1     | 39.8 | 44.2   | 33.4                              | 31.0 | 35.8   | 45.6  | 43.7 | 47.1   | 36.6  | 33.8 | 39.3   | 39.7  | 37.7 | 41.7   |
| 45.....  | 35.3         | 33.4 | 37.3   | 37.6     | 35.4 | 39.5   | 29.8                              | 27.8 | 31.9   | 40.8  | 38.9 | 42.2   | 32.5  | 29.8 | 34.9   | 35.2  | 33.3 | 37.1   |
| 50.....  | 30.9         | 29.1 | 32.8   | 33.1     | 31.0 | 34.9   | 26.7                              | 24.9 | 28.4   | 36.1  | 34.3 | 37.4   | 28.4  | 25.9 | 30.6   | 30.8  | 29.1 | 32.6   |
| 55.....  | 26.7         | 25.0 | 28.4   | 28.7     | 26.8 | 30.3   | 23.5                              | 21.9 | 25.0   | 31.4  | 29.8 | 32.7   | 24.4  | 22.1 | 26.4   | 26.6  | 25.0 | 28.2   |
| 60.....  | 22.7         | 21.1 | 24.2   | 24.5     | 22.7 | 25.9   | 20.6                              | 19.3 | 21.8   | 26.9  | 25.4 | 28.0   | 20.8  | 18.6 | 22.6   | 22.6  | 21.1 | 24.0   |
| 65.....  | 18.9         | 17.5 | 20.2   | 20.5     | 19.0 | 21.7   | 17.8                              | 16.8 | 18.7   | 22.5  | 21.2 | 23.4   | 17.4  | 15.5 | 19.0   | 18.8  | 17.5 | 20.0   |
| 70.....  | 15.3         | 14.2 | 16.3   | 16.7     | 15.4 | 17.7   | 14.9                              | 14.2 | 15.5   | 18.4  | 17.2 | 19.1   | 14.4  | 12.8 | 15.6   | 15.2  | 14.1 | 16.2   |
| 75.....  | 12.0         | 11.0 | 12.8   | 13.2     | 12.1 | 13.9   | 12.4                              | 11.9 | 12.6   | 14.5  | 13.6 | 15.0   | 11.5  | 10.2 | 12.4   | 11.8  | 10.9 | 12.6   |
| 80.....  | 8.9          | 8.1  | 9.5    | 10.0     | 9.1  | 10.4   | 9.9                               | 9.6  | 10.0   | 10.8  | 10.1 | 11.1   | 8.9   | 7.8  | 9.5    | 8.8   | 8.0  | 9.4    |
| 85.....  | 6.4          | 5.8  | 6.8    | 7.2      | 6.5  | 7.4    | 7.9                               | 7.7  | 7.8    | 7.7   | 7.2  | 7.8    | 6.6   | 5.8  | 7.0    | 6.3   | 5.7  | 6.7    |
| 90.....  | 4.4          | 3.9  | 4.6    | 5.0      | 4.4  | 5.0    | 6.2                               | 6.1  | 6.0    | 5.1   | 4.8  | 5.1    | 4.8   | 4.2  | 5.0    | 4.3   | 3.8  | 4.5    |
| 95.....  | 3.0          | 2.7  | 3.1    | 3.4      | 3.0  | 3.3    | 4.8                               | 4.9  | 4.6    | 3.4   | 3.2  | 3.2    | 3.4   | 3.1  | 3.5    | 2.9   | 2.6  | 3.0    |
| 100..... | 2.1          | 1.9  | 2.2    | 2.4      | 2.2  | 2.3    | 3.9                               | 4.0  | 3.6    | 2.3   | 2.2  | 2.1    | 2.5   | 2.3  | 2.5    | 2.0   | 1.8  | 2.1    |

NOTE: Life tables by Hispanic origin and race are based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**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 people who survived to that age interval ( $T_x/l_x$ ). Consequently, the average remaining lifetime for males who reach age 20 is 55.7 years (5,497,469 divided by 98,693) (Table 2).

## Results

### Life expectancy in the United States

Tables 1–18 show complete life tables for 2022 by Hispanic origin and race and sex. Table A summarizes life expectancy by age, Hispanic origin and race, and sex. Life expectancy at birth for 2022 represents the average number of years that a group of infants would live if they were to experience throughout life the age-specific death rates prevailing in 2022. In 2022, life expectancy at birth was 77.5 years, increasing by 1.1 years from 76.4 in 2021 (Table 19).

The difference in life expectancy between the sexes was 5.4 years in 2022, decreasing 0.4 year from 2021. From 1900 to 1975, the difference in life expectancy between the sexes increased from 2.0 years to 7.8 years (Figure 1, Table 19). The increasing gap during these years is attributed to increases in male mortality due to ischemic heart disease and lung cancer,

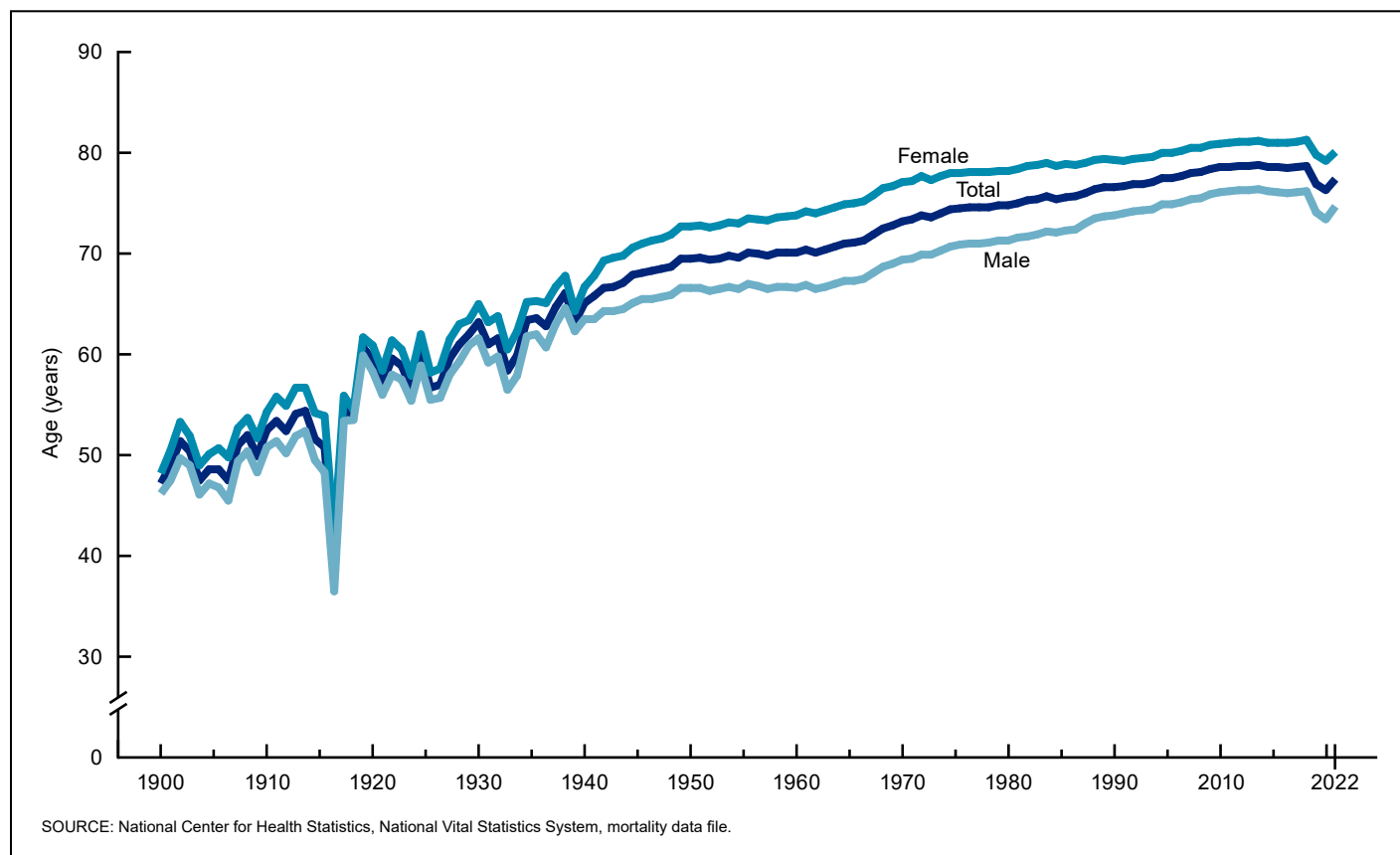
both of which increased largely as the result of men's early and widespread adoption of cigarette smoking (11,12). Between 1979 and 2010, the difference in life expectancy between the sexes narrowed from 7.8 years to 4.8 years, increased to 5.8 in 2021, and then declined to 5.4 in 2022 (Figure 1, Table 19).

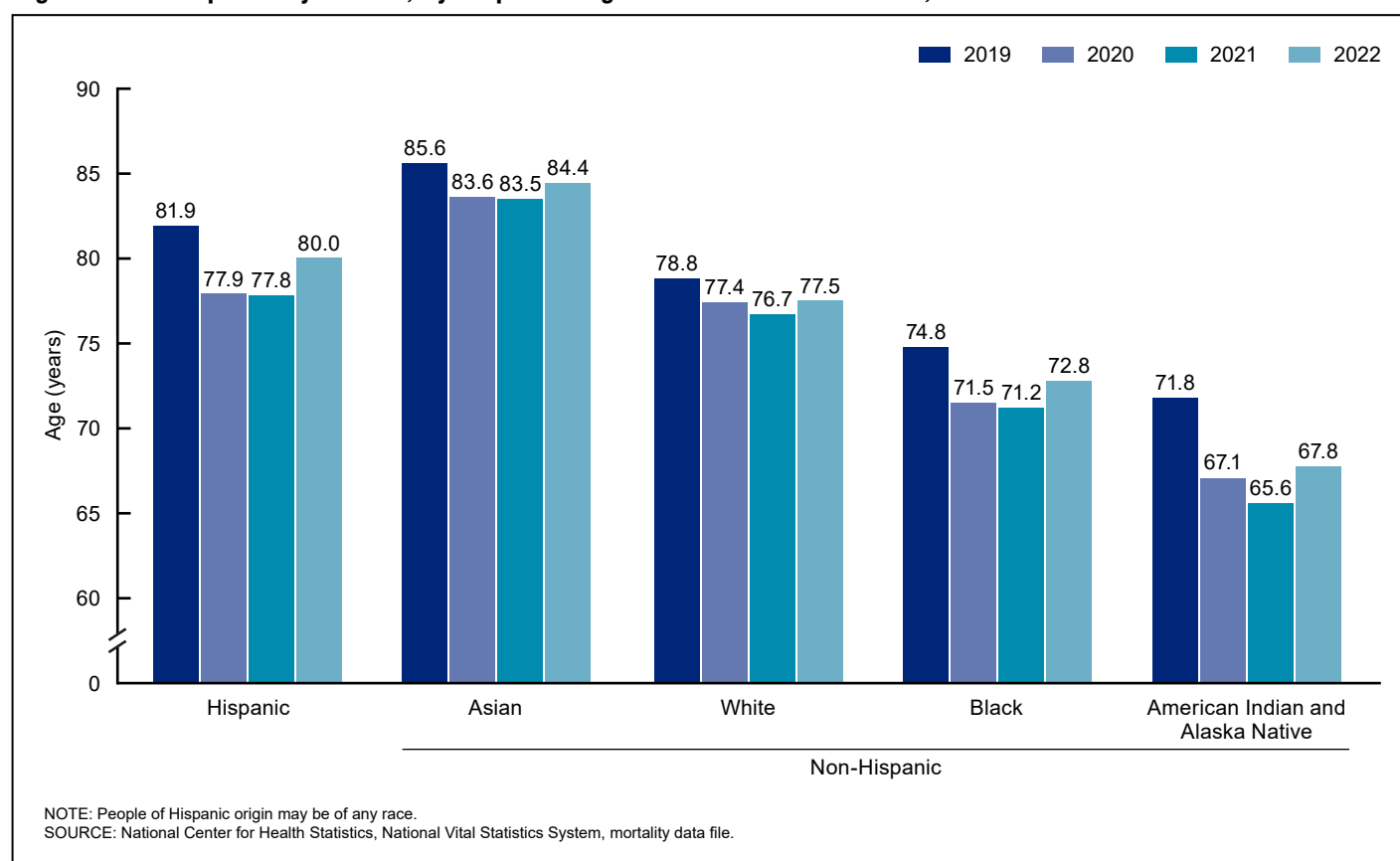
The 2022 life table may be used to compare life expectancy at any age from birth onward. Based on mortality experienced in 2022, a person age 65 could expect to live an average of 18.9 more years for a total of 83.9 years; a person age 85 could expect to live an additional 6.4 years for a total of 91.4 years; and a person age 100 could expect to live an additional 2.1 years, on average (Table A).

### Life expectancy by Hispanic origin and race

In 2022, the Hispanic population had a life expectancy of 80.0 years. Among the non-Hispanic population, the Asian population had the highest life expectancy at birth (84.4 years), followed by the White (77.5), Black (72.8), and American Indian and Alaska Native (67.8) populations (Table A, Figure 2). From 2021 to 2022, life expectancy at birth increased for all Hispanic-origin and race populations (Figure 2). Life expectancy increased by 2.2 years for the Hispanic population (77.8 to 80.0). Within the non-Hispanic population, life expectancy increased by 2.2 years for the American Indian and Alaska Native population (65.6 to 67.8), 1.6 years for the Black population (71.2 to 72.8), 0.9 year for the Asian population (83.5 to 84.4), and 0.8 year for the White population (76.7 to 77.5).

**Figure 1. Life expectancy at birth, by sex: United States, 1900–2022**



**Figure 2. Life expectancy at birth, by Hispanic origin and race: United States, 2019–2022**

Between 2021 and 2022, life expectancy increased by 2.4 years (74.6 to 77.0) for Hispanic males and by 1.7 years (81.1 to 82.8) for Hispanic females (Figure 3). Within the non-Hispanic population, American Indian and Alaska Native males experienced the greatest increase in life expectancy, 2.3 years (62.2 to 64.5), followed by American Indian and Alaska Native females with an increase of 2.1 years (69.2 to 71.3), Black males and females with an increase of 1.5 years each (67.6 to 69.1 and 75.0 to 76.5, respectively), Asian males with an increase of 1.1 years (81.2 to 82.3), White males with an increase of 1.1 years (74.0 to 75.1), Asian females with an increase of 0.7 year (85.6 to 86.3), and White females with an increase of 0.6 (79.5 to 80.1) (Figure 3).

### Effect on life expectancy of changes in cause-specific mortality

Changes in mortality by age and cause of death can have a major effect on life expectancy (Figures 4–6). Declines in cause-specific mortality contribute to increases in life expectancy, while increases in cause-specific mortality contribute to decreases in life expectancy. The increase of 1.1 years in life expectancy between 2021 and 2022 was primarily due to decreases in mortality due to COVID-19 (84.9% of the positive contribution), heart disease (3.4%), Cancer (2.1%), unintentional injuries (1.9%), and homicide (1.4%). The increase in life expectancy would have been even greater were it not for the offsetting effects of increases in mortality due to influenza and pneumonia (29.0%), perinatal conditions (22.6%), kidney

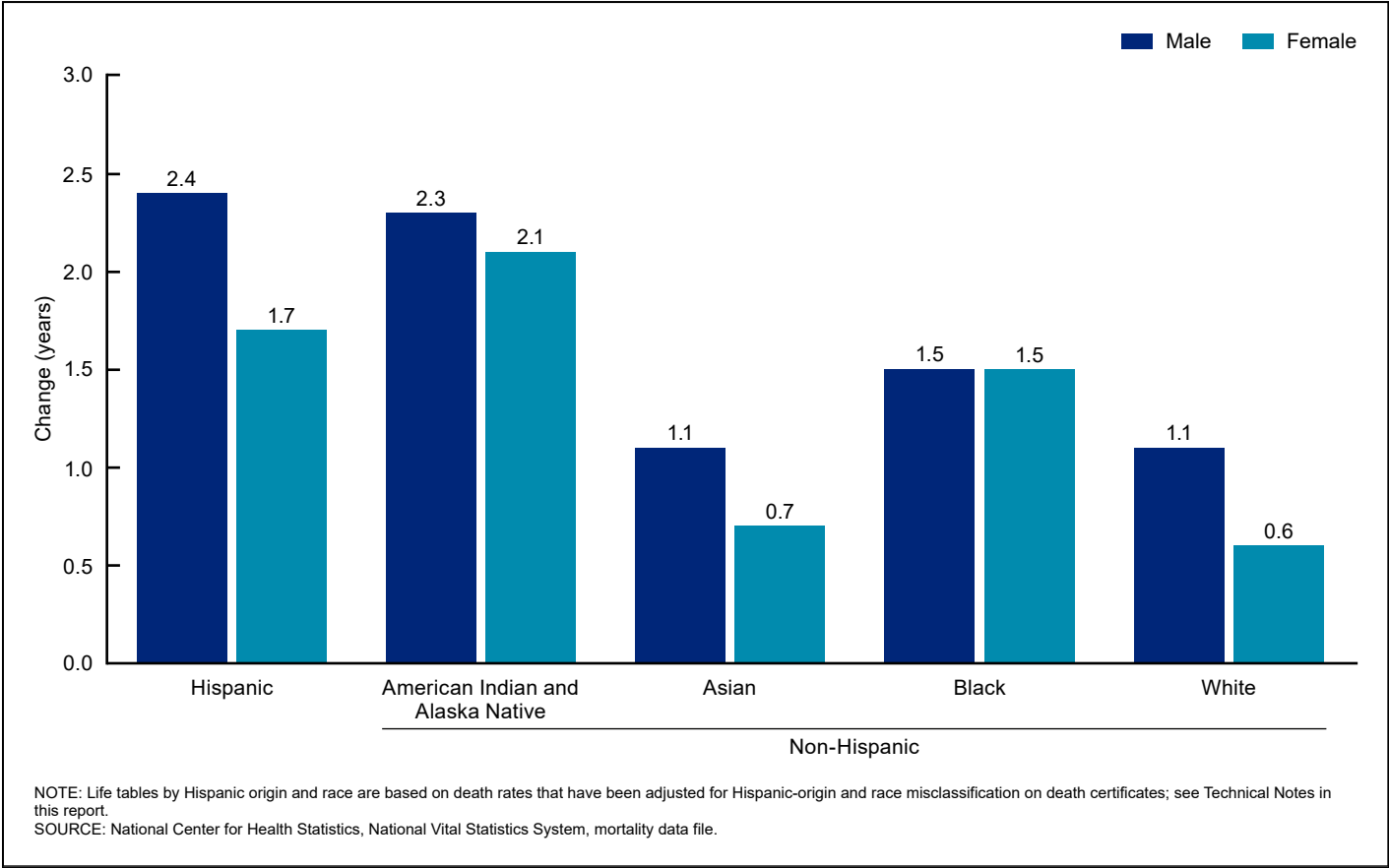
disease (13.8%), nutritional deficiencies (12.9%), and congenital malformations (7.0%) (See Technical Notes for a description of the life table partitioning method) (13).

The Hispanic and American Indian and Alaska Native non-Hispanic populations experienced the largest increases (2.2 years each) in life expectancy between 2021 and 2022. For the Hispanic population, the increase was primarily due to decreases in mortality due to COVID-19 (92.7%), heart disease (3.1%), diabetes (0.9%), cancer (0.6%), and medical complications (0.4%). The increase in life expectancy would have been greater were it not for the offsetting effects of increases in mortality due to unintentional injuries (41.9%), influenza and pneumonia (15.0%), congenital malformations (9.6%), perinatal conditions (5.8%), and nutritional deficiencies (3.2%).

For the American Indian and Alaska Native non-Hispanic population, the increase in life expectancy was primarily due to decreases in mortality due to COVID-19 (70.4%), chronic liver disease (10.4%), cancer (1.7%), suicide (1.6%), and diabetes (1.6%). The increase in life expectancy would have been greater if not for the offsetting effects of increases in mortality due to unintentional injuries (34.4%), homicide (20.0%), perinatal conditions (15.9%), influenza and pneumonia (6.4%), and congenital malformations (4.5%).

The second greatest increase in life expectancy was experienced by the Black non-Hispanic population (1.6 years). The increase was due primarily to decreases in mortality due to COVID-19 (72.1%), heart disease (6.9%), homicide (5.6%), diabetes (2.6%), and chronic liver disease (1.3%). The increase

Figure 3. Change in life expectancy at birth, by Hispanic origin and race and sex: United States, 2021–2022



in life expectancy was offset by increases in mortality due to perinatal conditions (49.3%), kidney disease (15.8%), congenital malformations (9.2%), nutritional deficiencies (4.6%), and legal intervention (4.5%).

The third largest increase in life expectancy was experienced by the Asian non-Hispanic population (0.9 year). The decline was primarily due to decreases in mortality due to COVID-19 (81.0%), stroke (4.1%), cancer (3.8%), hypertension (1.5%), and diabetes (1.4%). The increase in life expectancy would have been greater were it not for the offsetting effects of increases in mortality due to kidney disease (17.1%), heart disease (15.4%), congenital malformations (9.4%), unintentional injuries (8.3%), and nutritional deficiencies (6.2%).

The White non-Hispanic population experienced an increase in life expectancy of 0.8 year. The decline was primarily due to decreases in mortality due to COVID-19 (82.0%), unintentional injuries (6.1%), heart disease (3.0%), cancer (2.3%), and chronic liver disease (1.3%). The increase in life expectancy was offset by increases in mortality due to influenza and pneumonia (32.2%), perinatal conditions (21.9%), nutritional deficiencies (13.7%), kidney disease (11.4%), and chronic lower respiratory diseases (11.2%).

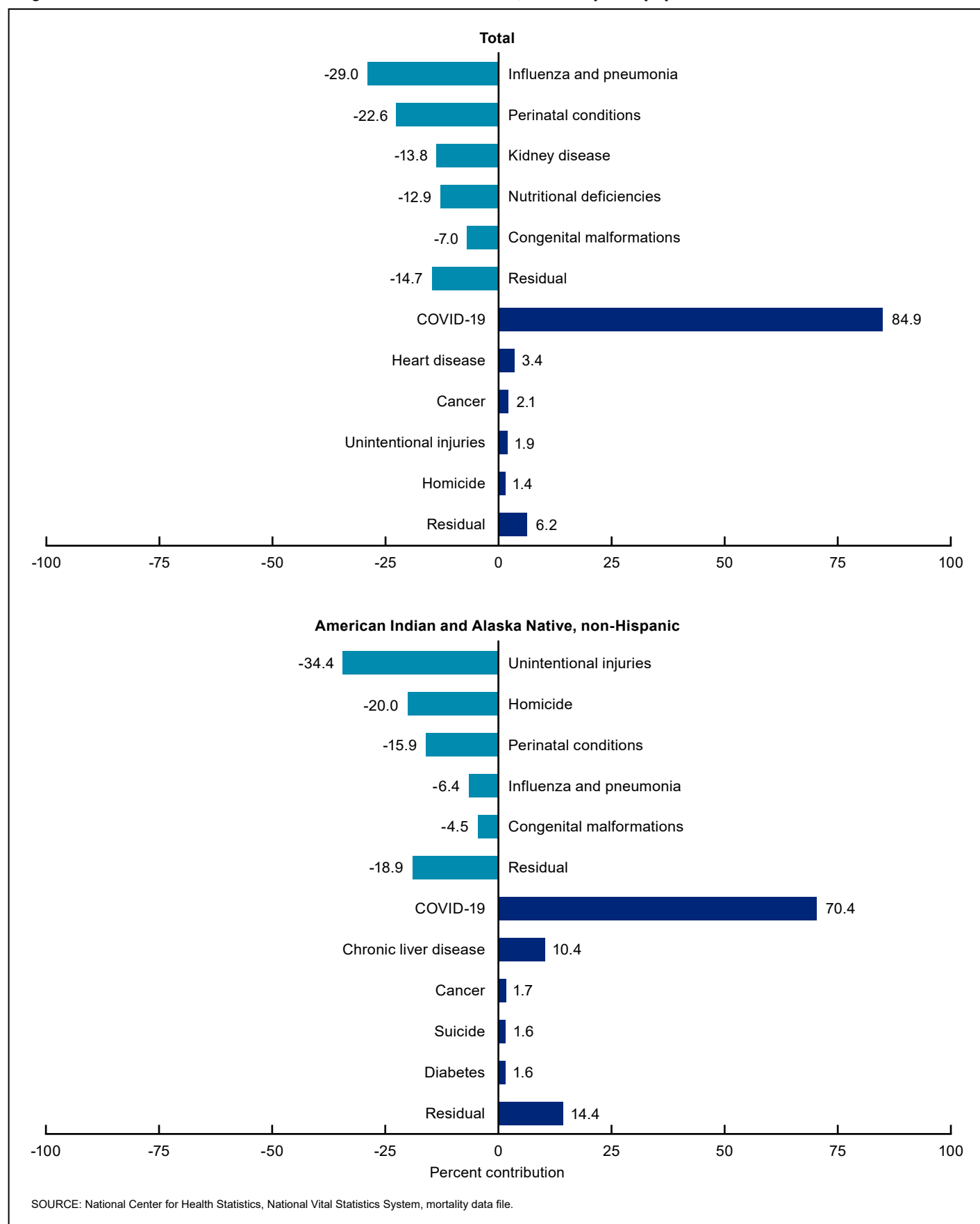
Survivorship in the United States

Table B summarizes the number of survivors out of 100,000 people born alive ( $I_0$ ) by age, Hispanic origin and race, and sex for 2022. In 2022, 99.4% of all infants born in the United States survived the first year of life; 98.9% survived to age 20; 81.7% survived to age 65; 39.6% survived to age 85; and 1.5% survived to age 100.

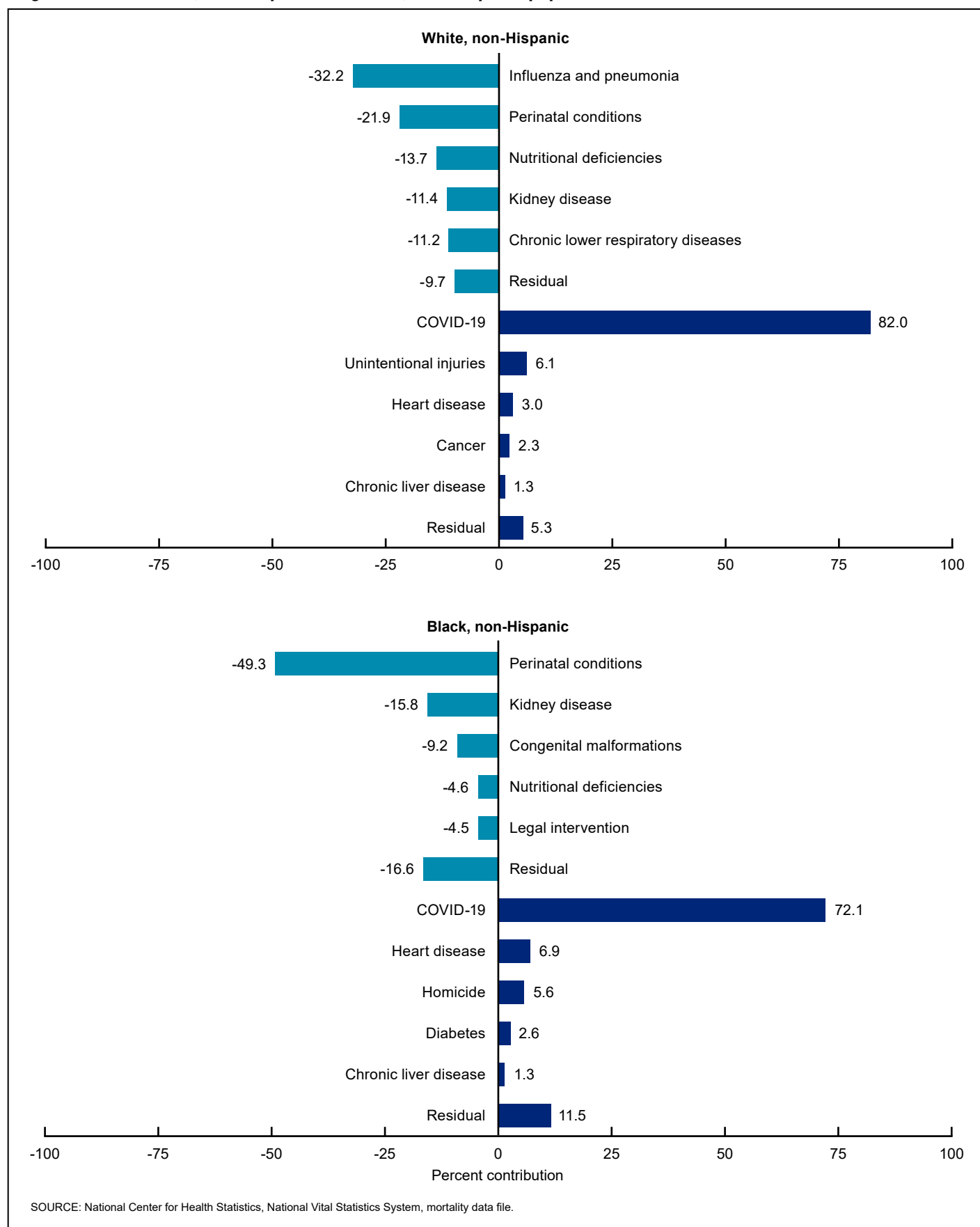
Survivorship by Hispanic origin and race

In 2022, 99.5% of Hispanic infants survived the first year of life. Among the non-Hispanic population, 99.6% of Asian, 99.5% of White, 99.1% of American Indian and Alaska Native, and 98.9% of Black infants survived the first year of life (Figure 7, Table B). The probability of survival by selected ages varied across the Hispanic-origin and race groups. In 2022, 99.0% of the Hispanic population survived to age 20, 85.1% to age 65, and 47.5% to age 85. Among the non-Hispanic population, the Asian population had the highest survival probability at age 20 (99.4%), followed by the White (99.1%), the Black (97.8%), and the American Indian and Alaska Native (97.7%) populations. By age 65, the Asian population had the highest survival probability at 92.0%, followed by the White (81.8%), Black (72.8%), and American Indian and Alaska Native (59.1%) populations. The survival advantage experienced by the

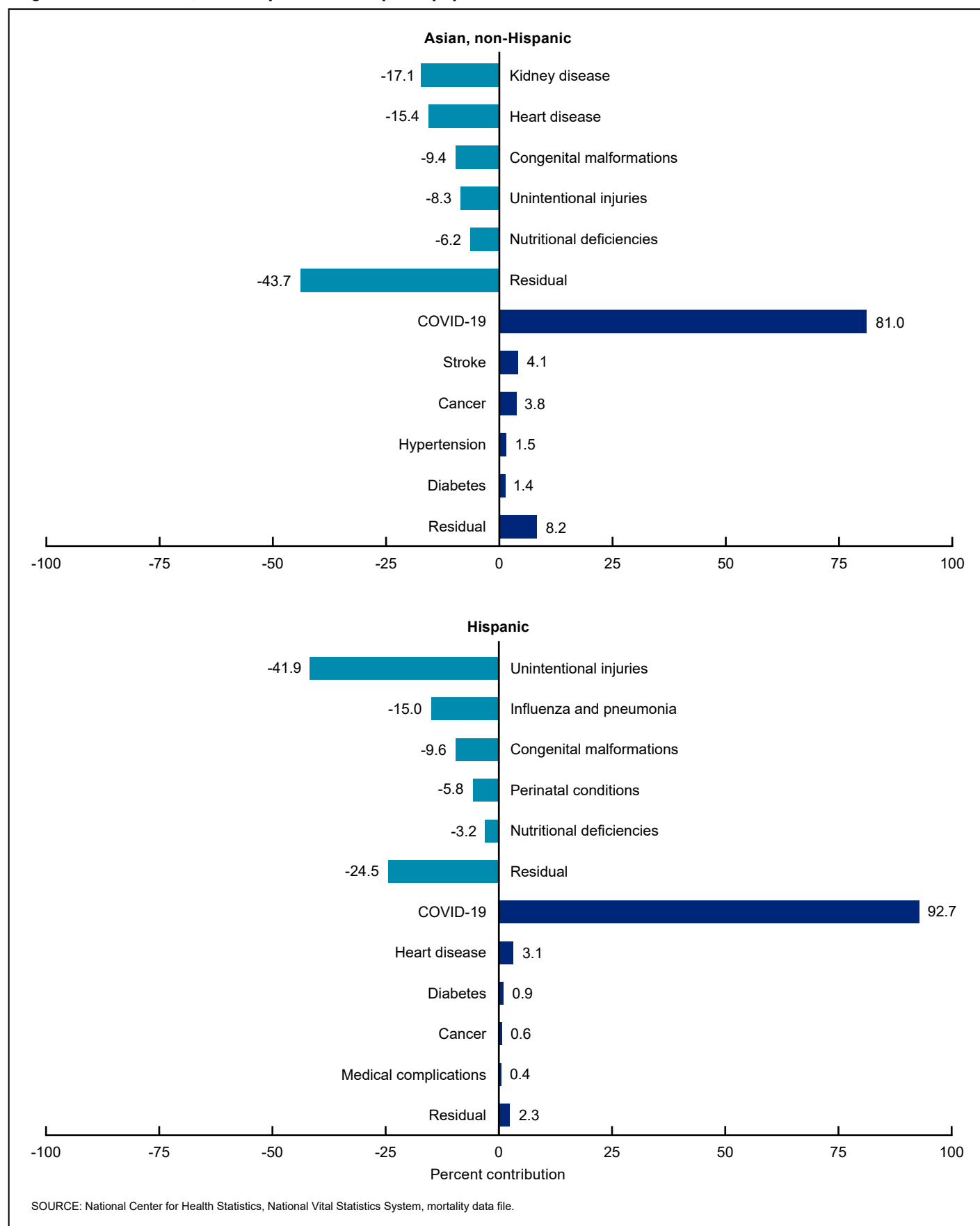
**Figure 4. Percent contribution to the changes in life expectancy from 2021 to 2022, by cause of death and Hispanic origin and race: Total and American Indian and Alaska Native, non-Hispanic populations**



**Figure 5. Percent contribution to the changes in life expectancy from 2021 to 2022, by cause of death and Hispanic origin and race: White, non-Hispanic and Black, non-Hispanic populations**



**Figure 6. Percent contribution to the changes in life expectancy from 2021 to 2022, by cause of death and Hispanic origin and race: Asian, non-Hispanic and Hispanic populations**

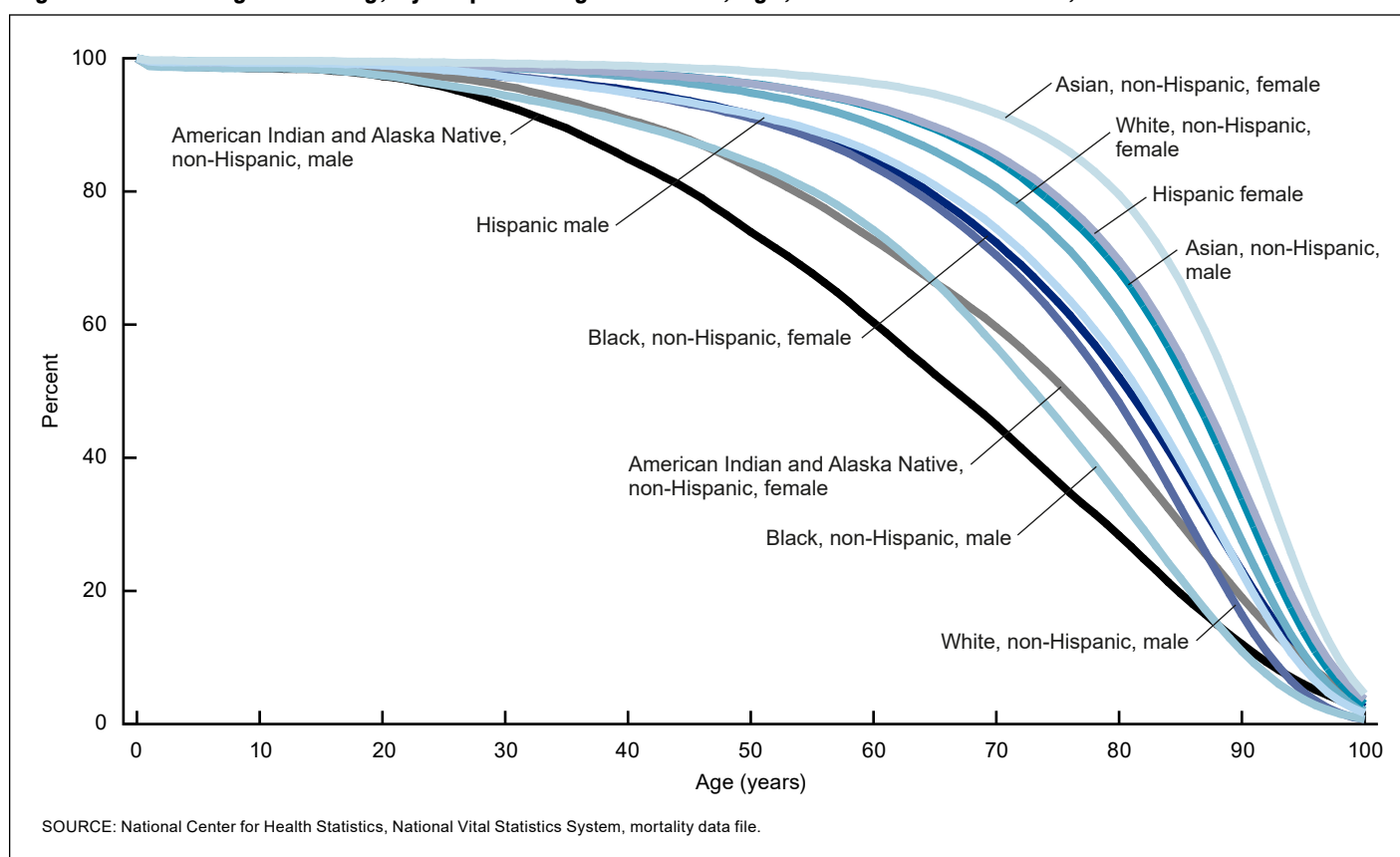


**Table B. Number of survivors out of 100,000 born alive, by age, Hispanic origin and race, and sex: United States, 2022**

| Age       | Non-Hispanic |         |         |          |         |         |                                   |         |         |         |         |         |         |         |         |         |         |         |
|-----------|--------------|---------|---------|----------|---------|---------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|           | All origins  |         |         | Hispanic |         |         | American Indian and Alaska Native |         |         | Asian   |         |         | Black   |         |         | White   |         |         |
|           | Total        | Male    | Female  | Total    | Male    | Female  | Total                             | Male    | Female  | Total   | Male    | Female  | Total   | Male    | Female  | Total   | Male    | Female  |
| 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 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| 1. ....   | 99,440       | 99,393  | 99,488  | 99,508   | 99,467  | 99,551  | 99,096                            | 98,947  | 99,251  | 99,649  | 99,612  | 99,687  | 98,912  | 98,821  | 99,006  | 99,549  | 99,512  | 99,588  |
| 5. ....   | 99,328       | 99,270  | 99,389  | 99,421   | 99,378  | 99,468  | 98,827                            | 98,678  | 98,983  | 99,592  | 99,549  | 99,639  | 98,700  | 98,604  | 98,825  | 99,448  | 99,389  | 99,511  |
| 10. ....  | 99,265       | 99,201  | 99,331  | 99,368   | 99,320  | 99,420  | 98,674                            | 98,499  | 98,857  | 99,556  | 99,512  | 99,602  | 98,578  | 98,482  | 98,717  | 99,392  | 99,322  | 99,465  |
| 15. ....  | 99,178       | 99,101  | 99,258  | 99,293   | 99,239  | 99,354  | 98,457                            | 98,265  | 98,660  | 99,508  | 99,455  | 99,565  | 98,431  | 98,323  | 98,602  | 99,311  | 99,222  | 99,405  |
| 20. ....  | 98,887       | 98,693  | 99,091  | 99,029   | 98,870  | 99,202  | 97,654                            | 97,322  | 97,984  | 99,351  | 99,279  | 99,485  | 97,835  | 97,411  | 98,332  | 99,070  | 98,903  | 99,247  |
| 25. ....  | 98,399       | 97,996  | 98,822  | 98,578   | 98,228  | 98,954  | 96,428                            | 95,658  | 97,212  | 99,108  | 99,009  | 99,361  | 96,907  | 96,028  | 97,874  | 98,656  | 98,330  | 99,001  |
| 30. ....  | 97,708       | 97,031  | 98,421  | 97,923   | 97,249  | 98,645  | 94,357                            | 92,919  | 95,849  | 98,862  | 98,677  | 99,237  | 95,774  | 94,436  | 97,223  | 98,015  | 97,462  | 98,602  |
| 35. ....  | 96,809       | 95,807  | 97,863  | 97,137   | 96,107  | 98,252  | 91,457                            | 89,452  | 93,572  | 98,553  | 98,268  | 99,070  | 94,416  | 92,587  | 96,368  | 97,128  | 96,277  | 98,028  |
| 40. ....  | 95,717       | 94,381  | 97,125  | 96,241   | 94,839  | 97,771  | 87,787                            | 84,919  | 90,825  | 98,218  | 97,797  | 98,863  | 92,702  | 90,333  | 95,189  | 96,018  | 94,854  | 97,250  |
| 45. ....  | 94,360       | 92,667  | 96,143  | 95,163   | 93,368  | 97,128  | 83,829                            | 80,101  | 87,802  | 97,748  | 97,187  | 98,521  | 90,557  | 87,614  | 93,600  | 94,636  | 93,134  | 96,230  |
| 50. ....  | 92,617       | 90,520  | 94,824  | 93,771   | 91,569  | 96,192  | 78,537                            | 73,936  | 83,475  | 97,028  | 96,203  | 98,034  | 87,904  | 84,316  | 91,566  | 92,853  | 90,991  | 94,834  |
| 55. ....  | 90,201       | 87,591  | 92,952  | 91,883   | 89,234  | 94,802  | 72,919                            | 67,700  | 78,568  | 95,930  | 94,729  | 97,271  | 84,437  | 80,082  | 88,851  | 90,381  | 88,031  | 92,890  |
| 60. ....  | 86,653       | 83,328  | 90,155  | 89,129   | 85,781  | 92,810  | 66,251                            | 60,312  | 72,715  | 94,389  | 92,611  | 96,229  | 79,524  | 74,204  | 84,894  | 86,775  | 83,748  | 90,006  |
| 65. ....  | 81,682       | 77,435  | 86,142  | 85,128   | 80,887  | 89,751  | 59,128                            | 52,528  | 66,345  | 92,016  | 89,399  | 94,572  | 72,833  | 66,378  | 79,335  | 81,786  | 77,877  | 85,951  |
| 70. ....  | 75,186       | 69,860  | 80,746  | 79,765   | 74,385  | 85,494  | 51,922                            | 44,892  | 59,631  | 88,306  | 84,682  | 91,723  | 64,425  | 56,575  | 72,272  | 75,315  | 70,377  | 80,550  |
| 75. ....  | 66,643       | 60,337  | 73,198  | 72,233   | 65,600  | 79,132  | 43,421                            | 36,365  | 51,264  | 82,591  | 77,681  | 87,088  | 54,612  | 45,772  | 63,380  | 66,724  | 60,820  | 72,948  |
| 80. ....  | 54,964       | 48,007  | 62,188  | 61,931   | 54,375  | 69,598  | 34,482                            | 28,325  | 41,372  | 74,055  | 68,079  | 79,481  | 43,138  | 34,072  | 52,115  | 54,834  | 48,251  | 61,756  |
| 85. ....  | 39,649       | 32,642  | 46,871  | 47,528   | 39,499  | 55,249  | 24,579                            | 19,648  | 30,092  | 60,264  | 53,333  | 66,358  | 30,078  | 21,864  | 38,177  | 39,239  | 32,517  | 46,237  |
| 90. ....  | 22,402       | 16,673  | 28,210  | 29,844   | 22,683  | 36,035  | 15,380                            | 11,999  | 18,992  | 40,536  | 33,846  | 45,890  | 17,035  | 10,936  | 22,977  | 21,905  | 16,417  | 27,546  |
| 95. ....  | 8,130        | 5,123   | 11,099  | 12,846   | 8,389   | 15,864  | 7,834                             | 6,004   | 9,498   | 18,398  | 14,030  | 20,924  | 6,824   | 3,716   | 9,811   | 7,718   | 4,848   | 10,569  |
| 100. .... | 1,513        | 753     | 2,242   | 3,084    | 1,613   | 3,674   | 3,064                             | 2,351   | 3,477   | 4,316   | 2,951   | 4,540   | 1,662   | 746     | 2,481   | 1,357   | 654     | 2,032   |

NOTE: Life tables by Hispanic origin and race are based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Figure 7. Percentage surviving, by Hispanic origin and race, age, and sex: United States, 2022**

Asian population increased with age so that by age 85, 60.3% had survived, compared with 39.2% of the White, 30.1% of the Black, and 24.6% of the American Indian and Alaska Native populations.

## Summary

After 2 years of decline, U.S. life expectancy at birth increased in 2022. Increases in life expectancy between 2021 and 2022 occurred across all racial, ethnic, and sex groups. However, the increases were not enough to make up for the losses in life expectancy between 2019 and 2021 that resulted mainly from the COVID-19 pandemic. Life expectancy at birth in 2022 was 1.3 years lower for the total population, 1.5 years lower for males, and 1.2 years lower for females than in 2019.

The American Indian and Alaska Native non-Hispanic population had one of the largest increases in life expectancy between 2021 and 2022 (2.2 years), but life expectancy remained 4.0 years lower than in 2019. Similarly, the Hispanic population experienced a life expectancy increase of 2.2 years between 2021 and 2022, but its life expectancy remained 1.9 years lower than in 2019. The Black non-Hispanic population gained 1.6 years in life expectancy between 2021 and 2022 but remained 2.0 years lower than in 2019. The Asian non-Hispanic and White non-Hispanic populations gained 0.9 and 0.8 years in life expectancy between 2021 and 2022, respectively, but life expectancy remained 1.2 and 1.3 years below what each had attained in 2019, respectively.

The increase in life expectancy at birth for the total population and all Hispanic-origin and race groups shown in this report was due mostly to declines in mortality due to COVID-19.

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**Table 1. Life table for the total population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table01.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table01.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.005605                                                | 100,000                           | 560                                             | 99,513                                                | 7,745,695                                              | 77.5                              |
| 1-2.....    | 0.000444                                                | 99,440                            | 44                                              | 99,417                                                | 7,646,182                                              | 76.9                              |
| 2-3.....    | 0.000284                                                | 99,395                            | 28                                              | 99,381                                                | 7,546,764                                              | 75.9                              |
| 3-4.....    | 0.000222                                                | 99,367                            | 22                                              | 99,356                                                | 7,447,383                                              | 74.9                              |
| 4-5.....    | 0.000168                                                | 99,345                            | 17                                              | 99,337                                                | 7,348,027                                              | 74.0                              |
| 5-6.....    | 0.000155                                                | 99,328                            | 15                                              | 99,321                                                | 7,248,690                                              | 73.0                              |
| 6-7.....    | 0.000139                                                | 99,313                            | 14                                              | 99,306                                                | 7,149,369                                              | 72.0                              |
| 7-8.....    | 0.000128                                                | 99,299                            | 13                                              | 99,293                                                | 7,050,063                                              | 71.0                              |
| 8-9.....    | 0.000116                                                | 99,287                            | 12                                              | 99,281                                                | 6,950,770                                              | 70.0                              |
| 9-10.....   | 0.000105                                                | 99,275                            | 10                                              | 99,270                                                | 6,851,489                                              | 69.0                              |
| 10-11.....  | 0.000101                                                | 99,265                            | 10                                              | 99,260                                                | 6,752,219                                              | 68.0                              |
| 11-12.....  | 0.000112                                                | 99,255                            | 11                                              | 99,249                                                | 6,652,959                                              | 67.0                              |
| 12-13.....  | 0.000147                                                | 99,244                            | 15                                              | 99,236                                                | 6,553,710                                              | 66.0                              |
| 13-14.....  | 0.000213                                                | 99,229                            | 21                                              | 99,218                                                | 6,454,474                                              | 65.0                              |
| 14-15.....  | 0.000302                                                | 99,208                            | 30                                              | 99,193                                                | 6,355,256                                              | 64.1                              |
| 15-16.....  | 0.000402                                                | 99,178                            | 40                                              | 99,158                                                | 6,256,063                                              | 63.1                              |
| 16-17.....  | 0.000501                                                | 99,138                            | 50                                              | 99,113                                                | 6,156,905                                              | 62.1                              |
| 17-18.....  | 0.000596                                                | 99,088                            | 59                                              | 99,059                                                | 6,057,792                                              | 61.1                              |
| 18-19.....  | 0.000680                                                | 99,029                            | 67                                              | 98,995                                                | 5,958,733                                              | 60.2                              |
| 19-20.....  | 0.000756                                                | 98,962                            | 75                                              | 98,924                                                | 5,859,738                                              | 59.2                              |
| 20-21.....  | 0.000832                                                | 98,887                            | 82                                              | 98,846                                                | 5,760,814                                              | 58.3                              |
| 21-22.....  | 0.000911                                                | 98,805                            | 90                                              | 98,760                                                | 5,661,968                                              | 57.3                              |
| 22-23.....  | 0.000989                                                | 98,715                            | 98                                              | 98,666                                                | 5,563,208                                              | 56.4                              |
| 23-24.....  | 0.001067                                                | 98,617                            | 105                                             | 98,564                                                | 5,464,542                                              | 55.4                              |
| 24-25.....  | 0.001148                                                | 98,512                            | 113                                             | 98,455                                                | 5,365,978                                              | 54.5                              |
| 25-26.....  | 0.001231                                                | 98,399                            | 121                                             | 98,338                                                | 5,267,523                                              | 53.5                              |
| 26-27.....  | 0.001316                                                | 98,277                            | 129                                             | 98,213                                                | 5,169,185                                              | 52.6                              |
| 27-28.....  | 0.001406                                                | 98,148                            | 138                                             | 98,079                                                | 5,070,972                                              | 51.7                              |
| 28-29.....  | 0.001499                                                | 98,010                            | 147                                             | 97,937                                                | 4,972,893                                              | 50.7                              |
| 29-30.....  | 0.001591                                                | 97,863                            | 156                                             | 97,785                                                | 4,874,956                                              | 49.8                              |
| 30-31.....  | 0.001682                                                | 97,708                            | 164                                             | 97,625                                                | 4,777,171                                              | 48.9                              |
| 31-32.....  | 0.001769                                                | 97,543                            | 173                                             | 97,457                                                | 4,679,546                                              | 48.0                              |
| 32-33.....  | 0.001851                                                | 97,371                            | 180                                             | 97,281                                                | 4,582,089                                              | 47.1                              |
| 33-34.....  | 0.001927                                                | 97,190                            | 187                                             | 97,097                                                | 4,484,808                                              | 46.1                              |
| 34-35.....  | 0.002002                                                | 97,003                            | 194                                             | 96,906                                                | 4,387,711                                              | 45.2                              |
| 35-36.....  | 0.002080                                                | 96,809                            | 201                                             | 96,708                                                | 4,290,805                                              | 44.3                              |
| 36-37.....  | 0.002164                                                | 96,608                            | 209                                             | 96,503                                                | 4,194,097                                              | 43.4                              |
| 37-38.....  | 0.002257                                                | 96,399                            | 218                                             | 96,290                                                | 4,097,594                                              | 42.5                              |
| 38-39.....  | 0.002359                                                | 96,181                            | 227                                             | 96,067                                                | 4,001,304                                              | 41.6                              |
| 39-40.....  | 0.002469                                                | 95,954                            | 237                                             | 95,836                                                | 3,905,237                                              | 40.7                              |
| 40-41.....  | 0.002593                                                | 95,717                            | 248                                             | 95,593                                                | 3,809,401                                              | 39.8                              |
| 41-42.....  | 0.002725                                                | 95,469                            | 260                                             | 95,339                                                | 3,713,808                                              | 38.9                              |
| 42-43.....  | 0.002854                                                | 95,209                            | 272                                             | 95,073                                                | 3,618,469                                              | 38.0                              |
| 43-44.....  | 0.002980                                                | 94,937                            | 283                                             | 94,796                                                | 3,523,396                                              | 37.1                              |
| 44-45.....  | 0.003113                                                | 94,654                            | 295                                             | 94,507                                                | 3,428,601                                              | 36.2                              |
| 45-46.....  | 0.003271                                                | 94,360                            | 309                                             | 94,205                                                | 3,334,094                                              | 35.3                              |
| 46-47.....  | 0.003466                                                | 94,051                            | 326                                             | 93,888                                                | 3,239,889                                              | 34.4                              |
| 47-48.....  | 0.003695                                                | 93,725                            | 346                                             | 93,552                                                | 3,146,001                                              | 33.6                              |
| 48-49.....  | 0.003950                                                | 93,379                            | 369                                             | 93,194                                                | 3,052,449                                              | 32.7                              |
| 49-50.....  | 0.004226                                                | 93,010                            | 393                                             | 92,813                                                | 2,959,255                                              | 31.8                              |
| 50-51.....  | 0.004515                                                | 92,617                            | 418                                             | 92,408                                                | 2,866,442                                              | 30.9                              |
| 51-52.....  | 0.004833                                                | 92,199                            | 446                                             | 91,976                                                | 2,774,034                                              | 30.1                              |
| 52-53.....  | 0.005204                                                | 91,753                            | 477                                             | 91,514                                                | 2,682,058                                              | 29.2                              |
| 53-54.....  | 0.005647                                                | 91,276                            | 515                                             | 91,018                                                | 2,590,544                                              | 28.4                              |
| 54-55.....  | 0.006162                                                | 90,760                            | 559                                             | 90,480                                                | 2,499,526                                              | 27.5                              |
| 55-56.....  | 0.006709                                                | 90,201                            | 605                                             | 89,898                                                | 2,409,046                                              | 26.7                              |
| 56-57.....  | 0.007285                                                | 89,596                            | 653                                             | 89,269                                                | 2,319,148                                              | 25.9                              |
| 57-58.....  | 0.007930                                                | 88,943                            | 705                                             | 88,590                                                | 2,229,878                                              | 25.1                              |
| 58-59.....  | 0.008641                                                | 88,238                            | 762                                             | 87,856                                                | 2,141,288                                              | 24.3                              |
| 59-60.....  | 0.009392                                                | 87,475                            | 822                                             | 87,064                                                | 2,053,432                                              | 23.5                              |

**Table 1. Life table for the total population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table01.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table01.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.010173                                                | 86,653                            | 882                                             | 86,213                                                | 1,966,367                                              | 22.7                              |
| 61–62.....         | 0.010960                                                | 85,772                            | 940                                             | 85,302                                                | 1,880,155                                              | 21.9                              |
| 62–63.....         | 0.011741                                                | 84,832                            | 996                                             | 84,334                                                | 1,794,853                                              | 21.2                              |
| 63–64.....         | 0.012524                                                | 83,836                            | 1,050                                           | 83,311                                                | 1,710,519                                              | 20.4                              |
| 64–65.....         | 0.013340                                                | 82,786                            | 1,104                                           | 82,234                                                | 1,627,208                                              | 19.7                              |
| 65–66.....         | 0.014218                                                | 81,682                            | 1,161                                           | 81,101                                                | 1,544,974                                              | 18.9                              |
| 66–67.....         | 0.015280                                                | 80,520                            | 1,230                                           | 79,905                                                | 1,463,873                                              | 18.2                              |
| 67–68.....         | 0.016329                                                | 79,290                            | 1,295                                           | 78,642                                                | 1,383,968                                              | 17.5                              |
| 68–69.....         | 0.017524                                                | 77,995                            | 1,367                                           | 77,312                                                | 1,305,326                                              | 16.7                              |
| 69–70.....         | 0.018824                                                | 76,628                            | 1,442                                           | 75,907                                                | 1,228,014                                              | 16.0                              |
| 70–71.....         | 0.020179                                                | 75,186                            | 1,517                                           | 74,427                                                | 1,152,107                                              | 15.3                              |
| 71–72.....         | 0.021711                                                | 73,669                            | 1,599                                           | 72,869                                                | 1,077,680                                              | 14.6                              |
| 72–73.....         | 0.023521                                                | 72,069                            | 1,695                                           | 71,222                                                | 1,004,811                                              | 13.9                              |
| 73–74.....         | 0.025618                                                | 70,374                            | 1,803                                           | 69,473                                                | 933,589                                                | 13.3                              |
| 74–75.....         | 0.028122                                                | 68,571                            | 1,928                                           | 67,607                                                | 864,117                                                | 12.6                              |
| 75–76.....         | 0.030467                                                | 66,643                            | 2,030                                           | 65,628                                                | 796,510                                                | 12.0                              |
| 76–77.....         | 0.034339                                                | 64,613                            | 2,219                                           | 63,503                                                | 730,882                                                | 11.3                              |
| 77–78.....         | 0.037380                                                | 62,394                            | 2,332                                           | 61,228                                                | 667,379                                                | 10.7                              |
| 78–79.....         | 0.041500                                                | 60,062                            | 2,493                                           | 58,815                                                | 606,151                                                | 10.1                              |
| 79–80.....         | 0.045247                                                | 57,569                            | 2,605                                           | 56,267                                                | 547,336                                                | 9.5                               |
| 80–81.....         | 0.050833                                                | 54,964                            | 2,794                                           | 53,567                                                | 491,069                                                | 8.9                               |
| 81–82.....         | 0.056254                                                | 52,170                            | 2,935                                           | 50,703                                                | 437,502                                                | 8.4                               |
| 82–83.....         | 0.062471                                                | 49,235                            | 3,076                                           | 47,697                                                | 386,799                                                | 7.9                               |
| 83–84.....         | 0.069526                                                | 46,160                            | 3,209                                           | 44,555                                                | 339,102                                                | 7.3                               |
| 84–85.....         | 0.076869                                                | 42,950                            | 3,302                                           | 41,300                                                | 294,547                                                | 6.9                               |
| 85–86.....         | 0.086054                                                | 39,649                            | 3,412                                           | 37,943                                                | 253,247                                                | 6.4                               |
| 86–87.....         | 0.094545                                                | 36,237                            | 3,426                                           | 34,524                                                | 215,304                                                | 5.9                               |
| 87–88.....         | 0.106195                                                | 32,811                            | 3,484                                           | 31,069                                                | 180,781                                                | 5.5                               |
| 88–89.....         | 0.118983                                                | 29,327                            | 3,489                                           | 27,582                                                | 149,712                                                | 5.1                               |
| 89–90.....         | 0.132946                                                | 25,837                            | 3,435                                           | 24,120                                                | 122,130                                                | 4.7                               |
| 90–91.....         | 0.148104                                                | 22,402                            | 3,318                                           | 20,743                                                | 98,010                                                 | 4.4                               |
| 91–92.....         | 0.164457                                                | 19,084                            | 3,139                                           | 17,515                                                | 77,267                                                 | 4.0                               |
| 92–93.....         | 0.181983                                                | 15,946                            | 2,902                                           | 14,495                                                | 59,752                                                 | 3.7                               |
| 93–94.....         | 0.200630                                                | 13,044                            | 2,617                                           | 11,735                                                | 45,257                                                 | 3.5                               |
| 94–95.....         | 0.220320                                                | 10,427                            | 2,297                                           | 9,278                                                 | 33,522                                                 | 3.2                               |
| 95–96.....         | 0.240942                                                | 8,130                             | 1,959                                           | 7,150                                                 | 24,243                                                 | 3.0                               |
| 96–97.....         | 0.262361                                                | 6,171                             | 1,619                                           | 5,361                                                 | 17,093                                                 | 2.8                               |
| 97–98.....         | 0.284411                                                | 4,552                             | 1,295                                           | 3,905                                                 | 11,732                                                 | 2.6                               |
| 98–99.....         | 0.306908                                                | 3,257                             | 1,000                                           | 2,757                                                 | 7,827                                                  | 2.4                               |
| 99–100.....        | 0.329650                                                | 2,258                             | 744                                             | 1,885                                                 | 5,070                                                  | 2.2                               |
| 100 and older..... | 1.000000                                                | 1,513                             | 1,513                                           | 3,184                                                 | 3,184                                                  | 2.1                               |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 2. Life table for males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table02.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table02.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.006067                                                | 100,000                           | 607                                             | 99,475                                                | 7,480,833                                              | 74.8                              |
| 1-2.....    | 0.000489                                                | 99,393                            | 49                                              | 99,369                                                | 7,381,358                                              | 74.3                              |
| 2-3.....    | 0.000323                                                | 99,345                            | 32                                              | 99,329                                                | 7,281,989                                              | 73.3                              |
| 3-4.....    | 0.000238                                                | 99,313                            | 24                                              | 99,301                                                | 7,182,660                                              | 72.3                              |
| 4-5.....    | 0.000188                                                | 99,289                            | 19                                              | 99,280                                                | 7,083,359                                              | 71.3                              |
| 5-6.....    | 0.000170                                                | 99,270                            | 17                                              | 99,262                                                | 6,984,080                                              | 70.4                              |
| 6-7.....    | 0.000155                                                | 99,253                            | 15                                              | 99,246                                                | 6,884,818                                              | 69.4                              |
| 7-8.....    | 0.000142                                                | 99,238                            | 14                                              | 99,231                                                | 6,785,572                                              | 68.4                              |
| 8-9.....    | 0.000125                                                | 99,224                            | 12                                              | 99,218                                                | 6,686,341                                              | 67.4                              |
| 9-10.....   | 0.000106                                                | 99,212                            | 10                                              | 99,206                                                | 6,587,123                                              | 66.4                              |
| 10-11.....  | 0.000094                                                | 99,201                            | 9                                               | 99,196                                                | 6,487,917                                              | 65.4                              |
| 11-12.....  | 0.000105                                                | 99,192                            | 10                                              | 99,187                                                | 6,388,720                                              | 64.4                              |
| 12-13.....  | 0.000156                                                | 99,181                            | 15                                              | 99,174                                                | 6,289,534                                              | 63.4                              |
| 13-14.....  | 0.000257                                                | 99,166                            | 25                                              | 99,153                                                | 6,190,360                                              | 62.4                              |
| 14-15.....  | 0.000393                                                | 99,140                            | 39                                              | 99,121                                                | 6,091,207                                              | 61.4                              |
| 15-16.....  | 0.000546                                                | 99,101                            | 54                                              | 99,074                                                | 5,992,086                                              | 60.5                              |
| 16-17.....  | 0.000697                                                | 99,047                            | 69                                              | 99,013                                                | 5,893,012                                              | 59.5                              |
| 17-18.....  | 0.000840                                                | 98,978                            | 83                                              | 98,937                                                | 5,793,999                                              | 58.5                              |
| 18-19.....  | 0.000966                                                | 98,895                            | 96                                              | 98,847                                                | 5,695,062                                              | 57.6                              |
| 19-20.....  | 0.001079                                                | 98,800                            | 107                                             | 98,746                                                | 5,596,215                                              | 56.6                              |
| 20-21.....  | 0.001192                                                | 98,693                            | 118                                             | 98,634                                                | 5,497,469                                              | 55.7                              |
| 21-22.....  | 0.001308                                                | 98,575                            | 129                                             | 98,511                                                | 5,398,834                                              | 54.8                              |
| 22-23.....  | 0.001420                                                | 98,446                            | 140                                             | 98,376                                                | 5,300,324                                              | 53.8                              |
| 23-24.....  | 0.001528                                                | 98,307                            | 150                                             | 98,231                                                | 5,201,947                                              | 52.9                              |
| 24-25.....  | 0.001637                                                | 98,156                            | 161                                             | 98,076                                                | 5,103,716                                              | 52.0                              |
| 25-26.....  | 0.001746                                                | 97,996                            | 171                                             | 97,910                                                | 5,005,640                                              | 51.1                              |
| 26-27.....  | 0.001857                                                | 97,825                            | 182                                             | 97,734                                                | 4,907,730                                              | 50.2                              |
| 27-28.....  | 0.001974                                                | 97,643                            | 193                                             | 97,547                                                | 4,809,996                                              | 49.3                              |
| 28-29.....  | 0.002095                                                | 97,450                            | 204                                             | 97,348                                                | 4,712,449                                              | 48.4                              |
| 29-30.....  | 0.002215                                                | 97,246                            | 215                                             | 97,138                                                | 4,615,101                                              | 47.5                              |
| 30-31.....  | 0.002333                                                | 97,031                            | 226                                             | 96,917                                                | 4,517,963                                              | 46.6                              |
| 31-32.....  | 0.002446                                                | 96,804                            | 237                                             | 96,686                                                | 4,421,046                                              | 45.7                              |
| 32-33.....  | 0.002546                                                | 96,567                            | 246                                             | 96,444                                                | 4,324,360                                              | 44.8                              |
| 33-34.....  | 0.002632                                                | 96,322                            | 254                                             | 96,195                                                | 4,227,916                                              | 43.9                              |
| 34-35.....  | 0.002713                                                | 96,068                            | 261                                             | 95,938                                                | 4,131,721                                              | 43.0                              |
| 35-36.....  | 0.002794                                                | 95,807                            | 268                                             | 95,674                                                | 4,035,783                                              | 42.1                              |
| 36-37.....  | 0.002883                                                | 95,540                            | 275                                             | 95,402                                                | 3,940,110                                              | 41.2                              |
| 37-38.....  | 0.002983                                                | 95,264                            | 284                                             | 95,122                                                | 3,844,708                                              | 40.4                              |
| 38-39.....  | 0.003096                                                | 94,980                            | 294                                             | 94,833                                                | 3,749,585                                              | 39.5                              |
| 39-40.....  | 0.003220                                                | 94,686                            | 305                                             | 94,534                                                | 3,654,752                                              | 38.6                              |
| 40-41.....  | 0.003362                                                | 94,381                            | 317                                             | 94,223                                                | 3,560,219                                              | 37.7                              |
| 41-42.....  | 0.003513                                                | 94,064                            | 330                                             | 93,899                                                | 3,465,996                                              | 36.8                              |
| 42-43.....  | 0.003661                                                | 93,733                            | 343                                             | 93,562                                                | 3,372,098                                              | 36.0                              |
| 43-44.....  | 0.003805                                                | 93,390                            | 355                                             | 93,213                                                | 3,278,536                                              | 35.1                              |
| 44-45.....  | 0.003957                                                | 93,035                            | 368                                             | 92,851                                                | 3,185,323                                              | 34.2                              |
| 45-46.....  | 0.004140                                                | 92,667                            | 384                                             | 92,475                                                | 3,092,472                                              | 33.4                              |
| 46-47.....  | 0.004368                                                | 92,283                            | 403                                             | 92,082                                                | 2,999,998                                              | 32.5                              |
| 47-48.....  | 0.004640                                                | 91,880                            | 426                                             | 91,667                                                | 2,907,916                                              | 31.6                              |
| 48-49.....  | 0.004948                                                | 91,454                            | 453                                             | 91,227                                                | 2,816,249                                              | 30.8                              |
| 49-50.....  | 0.005283                                                | 91,001                            | 481                                             | 90,761                                                | 2,725,022                                              | 29.9                              |
| 50-51.....  | 0.005632                                                | 90,520                            | 510                                             | 90,265                                                | 2,634,261                                              | 29.1                              |
| 51-52.....  | 0.006016                                                | 90,010                            | 542                                             | 89,740                                                | 2,543,996                                              | 28.3                              |
| 52-53.....  | 0.006468                                                | 89,469                            | 579                                             | 89,180                                                | 2,454,256                                              | 27.4                              |
| 53-54.....  | 0.007014                                                | 88,890                            | 624                                             | 88,579                                                | 2,365,076                                              | 26.6                              |
| 54-55.....  | 0.007654                                                | 88,267                            | 676                                             | 87,929                                                | 2,276,498                                              | 25.8                              |
| 55-56.....  | 0.008337                                                | 87,591                            | 730                                             | 87,226                                                | 2,188,569                                              | 25.0                              |
| 56-57.....  | 0.009055                                                | 86,861                            | 787                                             | 86,468                                                | 2,101,343                                              | 24.2                              |
| 57-58.....  | 0.009857                                                | 86,074                            | 848                                             | 85,650                                                | 2,014,875                                              | 23.4                              |
| 58-59.....  | 0.010736                                                | 85,226                            | 915                                             | 84,768                                                | 1,929,225                                              | 22.6                              |
| 59-60.....  | 0.011661                                                | 84,311                            | 983                                             | 83,819                                                | 1,844,456                                              | 21.9                              |

See footnotes at end of table.

**Table 2. Life table for males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table02.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table02.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.012616                                                | 83,328                            | 1,051                                           | 82,802                                                | 1,760,637                                              | 21.1                              |
| 61–62.....         | 0.013579                                                | 82,277                            | 1,117                                           | 81,718                                                | 1,677,835                                              | 20.4                              |
| 62–63.....         | 0.014542                                                | 81,159                            | 1,180                                           | 80,569                                                | 1,596,117                                              | 19.7                              |
| 63–64.....         | 0.015518                                                | 79,979                            | 1,241                                           | 79,359                                                | 1,515,548                                              | 18.9                              |
| 64–65.....         | 0.016545                                                | 78,738                            | 1,303                                           | 78,087                                                | 1,436,189                                              | 18.2                              |
| 65–66.....         | 0.017652                                                | 77,435                            | 1,367                                           | 76,752                                                | 1,358,103                                              | 17.5                              |
| 66–67.....         | 0.018999                                                | 76,068                            | 1,445                                           | 75,346                                                | 1,281,351                                              | 16.8                              |
| 67–68.....         | 0.020295                                                | 74,623                            | 1,515                                           | 73,866                                                | 1,206,005                                              | 16.2                              |
| 68–69.....         | 0.021722                                                | 73,109                            | 1,588                                           | 72,315                                                | 1,132,139                                              | 15.5                              |
| 69–70.....         | 0.023220                                                | 71,521                            | 1,661                                           | 70,690                                                | 1,059,825                                              | 14.8                              |
| 70–71.....         | 0.024718                                                | 69,860                            | 1,727                                           | 68,996                                                | 989,135                                                | 14.2                              |
| 71–72.....         | 0.026526                                                | 68,133                            | 1,807                                           | 67,229                                                | 920,138                                                | 13.5                              |
| 72–73.....         | 0.028548                                                | 66,326                            | 1,893                                           | 65,379                                                | 852,909                                                | 12.9                              |
| 73–74.....         | 0.030913                                                | 64,432                            | 1,992                                           | 63,436                                                | 787,530                                                | 12.2                              |
| 74–75.....         | 0.033685                                                | 62,440                            | 2,103                                           | 61,389                                                | 724,093                                                | 11.6                              |
| 75–76.....         | 0.036360                                                | 60,337                            | 2,194                                           | 59,240                                                | 662,705                                                | 11.0                              |
| 76–77.....         | 0.040718                                                | 58,143                            | 2,367                                           | 56,960                                                | 603,464                                                | 10.4                              |
| 77–78.....         | 0.044120                                                | 55,776                            | 2,461                                           | 54,545                                                | 546,505                                                | 9.8                               |
| 78–79.....         | 0.048910                                                | 53,315                            | 2,608                                           | 52,011                                                | 491,959                                                | 9.2                               |
| 79–80.....         | 0.053257                                                | 50,707                            | 2,701                                           | 49,357                                                | 439,948                                                | 8.7                               |
| 80–81.....         | 0.059834                                                | 48,007                            | 2,872                                           | 46,571                                                | 390,591                                                | 8.1                               |
| 81–82.....         | 0.066213                                                | 45,134                            | 2,988                                           | 43,640                                                | 344,020                                                | 7.6                               |
| 82–83.....         | 0.073590                                                | 42,146                            | 3,102                                           | 40,595                                                | 300,380                                                | 7.1                               |
| 83–84.....         | 0.081531                                                | 39,044                            | 3,183                                           | 37,453                                                | 259,785                                                | 6.7                               |
| 84–85.....         | 0.089758                                                | 35,861                            | 3,219                                           | 34,252                                                | 222,333                                                | 6.2                               |
| 85–86.....         | 0.100216                                                | 32,642                            | 3,271                                           | 31,007                                                | 188,081                                                | 5.8                               |
| 86–87.....         | 0.110609                                                | 29,371                            | 3,249                                           | 27,747                                                | 157,074                                                | 5.3                               |
| 87–88.....         | 0.123952                                                | 26,122                            | 3,238                                           | 24,503                                                | 129,328                                                | 5.0                               |
| 88–89.....         | 0.138504                                                | 22,884                            | 3,170                                           | 21,300                                                | 104,824                                                | 4.6                               |
| 89–90.....         | 0.154279                                                | 19,715                            | 3,042                                           | 18,194                                                | 83,525                                                 | 4.2                               |
| 90–91.....         | 0.171267                                                | 16,673                            | 2,856                                           | 15,245                                                | 65,331                                                 | 3.9                               |
| 91–92.....         | 0.189435                                                | 13,818                            | 2,618                                           | 12,509                                                | 50,086                                                 | 3.6                               |
| 92–93.....         | 0.208718                                                | 11,200                            | 2,338                                           | 10,031                                                | 37,577                                                 | 3.4                               |
| 93–94.....         | 0.229022                                                | 8,862                             | 2,030                                           | 7,848                                                 | 27,545                                                 | 3.1                               |
| 94–95.....         | 0.250222                                                | 6,833                             | 1,710                                           | 5,978                                                 | 19,698                                                 | 2.9                               |
| 95–96.....         | 0.272164                                                | 5,123                             | 1,394                                           | 4,426                                                 | 13,720                                                 | 2.7                               |
| 96–97.....         | 0.294668                                                | 3,729                             | 1,099                                           | 3,179                                                 | 9,294                                                  | 2.5                               |
| 97–98.....         | 0.317536                                                | 2,630                             | 835                                             | 2,212                                                 | 6,115                                                  | 2.3                               |
| 98–99.....         | 0.340553                                                | 1,795                             | 611                                             | 1,489                                                 | 3,902                                                  | 2.2                               |
| 99–100.....        | 0.363502                                                | 1,184                             | 430                                             | 968                                                   | 2,413                                                  | 2.0                               |
| 100 and older..... | 1.000000                                                | 753                               | 753                                             | 1,445                                                 | 1,445                                                  | 1.9                               |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 3. Life table for females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table03.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table03.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.005121                                                | 100,000                           | 512                                             | 99,552                                                | 8,020,082                                              | 80.2                              |
| 1-2.....    | 0.000397                                                | 99,488                            | 39                                              | 99,468                                                | 7,920,530                                              | 79.6                              |
| 2-3.....    | 0.000243                                                | 99,448                            | 24                                              | 99,436                                                | 7,821,062                                              | 78.6                              |
| 3-4.....    | 0.000205                                                | 99,424                            | 20                                              | 99,414                                                | 7,721,625                                              | 77.7                              |
| 4-5.....    | 0.000147                                                | 99,404                            | 15                                              | 99,397                                                | 7,622,211                                              | 76.7                              |
| 5-6.....    | 0.000138                                                | 99,389                            | 14                                              | 99,382                                                | 7,522,815                                              | 75.7                              |
| 6-7.....    | 0.000123                                                | 99,376                            | 12                                              | 99,369                                                | 7,423,432                                              | 74.7                              |
| 7-8.....    | 0.000113                                                | 99,363                            | 11                                              | 99,358                                                | 7,324,063                                              | 73.7                              |
| 8-9.....    | 0.000107                                                | 99,352                            | 11                                              | 99,347                                                | 7,224,705                                              | 72.7                              |
| 9-10.....   | 0.000105                                                | 99,341                            | 10                                              | 99,336                                                | 7,125,358                                              | 71.7                              |
| 10-11.....  | 0.000108                                                | 99,331                            | 11                                              | 99,326                                                | 7,026,022                                              | 70.7                              |
| 11-12.....  | 0.000118                                                | 99,320                            | 12                                              | 99,314                                                | 6,926,696                                              | 69.7                              |
| 12-13.....  | 0.000138                                                | 99,309                            | 14                                              | 99,302                                                | 6,827,382                                              | 68.7                              |
| 13-14.....  | 0.000168                                                | 99,295                            | 17                                              | 99,287                                                | 6,728,080                                              | 67.8                              |
| 14-15.....  | 0.000207                                                | 99,278                            | 21                                              | 99,268                                                | 6,628,794                                              | 66.8                              |
| 15-16.....  | 0.000251                                                | 99,258                            | 25                                              | 99,245                                                | 6,529,526                                              | 65.8                              |
| 16-17.....  | 0.000296                                                | 99,233                            | 29                                              | 99,218                                                | 6,430,280                                              | 64.8                              |
| 17-18.....  | 0.000340                                                | 99,203                            | 34                                              | 99,187                                                | 6,331,062                                              | 63.8                              |
| 18-19.....  | 0.000380                                                | 99,170                            | 38                                              | 99,151                                                | 6,231,876                                              | 62.8                              |
| 19-20.....  | 0.000417                                                | 99,132                            | 41                                              | 99,111                                                | 6,132,725                                              | 61.9                              |
| 20-21.....  | 0.000456                                                | 99,091                            | 45                                              | 99,068                                                | 6,033,613                                              | 60.9                              |
| 21-22.....  | 0.000497                                                | 99,046                            | 49                                              | 99,021                                                | 5,934,545                                              | 59.9                              |
| 22-23.....  | 0.000540                                                | 98,996                            | 53                                              | 98,970                                                | 5,835,524                                              | 58.9                              |
| 23-24.....  | 0.000586                                                | 98,943                            | 58                                              | 98,914                                                | 5,736,555                                              | 58.0                              |
| 24-25.....  | 0.000636                                                | 98,885                            | 63                                              | 98,853                                                | 5,637,641                                              | 57.0                              |
| 25-26.....  | 0.000690                                                | 98,822                            | 68                                              | 98,788                                                | 5,538,787                                              | 56.0                              |
| 26-27.....  | 0.000748                                                | 98,754                            | 74                                              | 98,717                                                | 5,439,999                                              | 55.1                              |
| 27-28.....  | 0.000810                                                | 98,680                            | 80                                              | 98,640                                                | 5,341,283                                              | 54.1                              |
| 28-29.....  | 0.000875                                                | 98,600                            | 86                                              | 98,557                                                | 5,242,643                                              | 53.2                              |
| 29-30.....  | 0.000940                                                | 98,514                            | 93                                              | 98,467                                                | 5,144,086                                              | 52.2                              |
| 30-31.....  | 0.001005                                                | 98,421                            | 99                                              | 98,372                                                | 5,045,618                                              | 51.3                              |
| 31-32.....  | 0.001070                                                | 98,322                            | 105                                             | 98,270                                                | 4,947,247                                              | 50.3                              |
| 32-33.....  | 0.001135                                                | 98,217                            | 111                                             | 98,161                                                | 4,848,977                                              | 49.4                              |
| 33-34.....  | 0.001200                                                | 98,106                            | 118                                             | 98,047                                                | 4,750,816                                              | 48.4                              |
| 34-35.....  | 0.001269                                                | 97,988                            | 124                                             | 97,926                                                | 4,652,769                                              | 47.5                              |
| 35-36.....  | 0.001343                                                | 97,863                            | 131                                             | 97,798                                                | 4,554,843                                              | 46.5                              |
| 36-37.....  | 0.001422                                                | 97,732                            | 139                                             | 97,663                                                | 4,457,046                                              | 45.6                              |
| 37-38.....  | 0.001508                                                | 97,593                            | 147                                             | 97,520                                                | 4,359,383                                              | 44.7                              |
| 38-39.....  | 0.001600                                                | 97,446                            | 156                                             | 97,368                                                | 4,261,864                                              | 43.7                              |
| 39-40.....  | 0.001696                                                | 97,290                            | 165                                             | 97,208                                                | 4,164,495                                              | 42.8                              |
| 40-41.....  | 0.001804                                                | 97,125                            | 175                                             | 97,037                                                | 4,067,288                                              | 41.9                              |
| 41-42.....  | 0.001918                                                | 96,950                            | 186                                             | 96,857                                                | 3,970,251                                              | 41.0                              |
| 42-43.....  | 0.002030                                                | 96,764                            | 196                                             | 96,666                                                | 3,873,394                                              | 40.0                              |
| 43-44.....  | 0.002140                                                | 96,567                            | 207                                             | 96,464                                                | 3,776,728                                              | 39.1                              |
| 44-45.....  | 0.002256                                                | 96,361                            | 217                                             | 96,252                                                | 3,680,264                                              | 38.2                              |
| 45-46.....  | 0.002393                                                | 96,143                            | 230                                             | 96,028                                                | 3,584,012                                              | 37.3                              |
| 46-47.....  | 0.002557                                                | 95,913                            | 245                                             | 95,791                                                | 3,487,984                                              | 36.4                              |
| 47-48.....  | 0.002743                                                | 95,668                            | 262                                             | 95,537                                                | 3,392,193                                              | 35.5                              |
| 48-49.....  | 0.002946                                                | 95,406                            | 281                                             | 95,265                                                | 3,296,656                                              | 34.6                              |
| 49-50.....  | 0.003160                                                | 95,125                            | 301                                             | 94,974                                                | 3,201,391                                              | 33.7                              |
| 50-51.....  | 0.003386                                                | 94,824                            | 321                                             | 94,663                                                | 3,106,417                                              | 32.8                              |
| 51-52.....  | 0.003637                                                | 94,503                            | 344                                             | 94,331                                                | 3,011,754                                              | 31.9                              |
| 52-53.....  | 0.003927                                                | 94,159                            | 370                                             | 93,974                                                | 2,917,423                                              | 31.0                              |
| 53-54.....  | 0.004272                                                | 93,789                            | 401                                             | 93,589                                                | 2,823,449                                              | 30.1                              |
| 54-55.....  | 0.004670                                                | 93,389                            | 436                                             | 93,171                                                | 2,729,860                                              | 29.2                              |
| 55-56.....  | 0.005092                                                | 92,952                            | 473                                             | 92,716                                                | 2,636,689                                              | 28.4                              |
| 56-57.....  | 0.005539                                                | 92,479                            | 512                                             | 92,223                                                | 2,543,973                                              | 27.5                              |
| 57-58.....  | 0.006041                                                | 91,967                            | 556                                             | 91,689                                                | 2,451,750                                              | 26.7                              |
| 58-59.....  | 0.006598                                                | 91,411                            | 603                                             | 91,110                                                | 2,360,061                                              | 25.8                              |
| 59-60.....  | 0.007190                                                | 90,808                            | 653                                             | 90,482                                                | 2,268,952                                              | 25.0                              |

See footnotes at end of table.

**Table 3. Life table for females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table03.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table03.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.007812                                                | 90,155                            | 704                                             | 89,803                                                | 2,178,470                                              | 24.2                              |
| 61–62.....         | 0.008442                                                | 89,451                            | 755                                             | 89,073                                                | 2,088,667                                              | 23.3                              |
| 62–63.....         | 0.009065                                                | 88,696                            | 804                                             | 88,294                                                | 1,999,593                                              | 22.5                              |
| 63–64.....         | 0.009684                                                | 87,892                            | 851                                             | 87,466                                                | 1,911,299                                              | 21.7                              |
| 64–65.....         | 0.010329                                                | 87,041                            | 899                                             | 86,591                                                | 1,823,833                                              | 21.0                              |
| 65–66.....         | 0.011024                                                | 86,142                            | 950                                             | 85,667                                                | 1,737,242                                              | 20.2                              |
| 66–67.....         | 0.011865                                                | 85,192                            | 1,011                                           | 84,687                                                | 1,651,576                                              | 19.4                              |
| 67–68.....         | 0.012725                                                | 84,181                            | 1,071                                           | 83,646                                                | 1,566,889                                              | 18.6                              |
| 68–69.....         | 0.013748                                                | 83,110                            | 1,143                                           | 82,539                                                | 1,483,244                                              | 17.8                              |
| 69–70.....         | 0.014905                                                | 81,967                            | 1,222                                           | 81,356                                                | 1,400,705                                              | 17.1                              |
| 70–71.....         | 0.016151                                                | 80,746                            | 1,304                                           | 80,094                                                | 1,319,348                                              | 16.3                              |
| 71–72.....         | 0.017479                                                | 79,441                            | 1,389                                           | 78,747                                                | 1,239,255                                              | 15.6                              |
| 72–73.....         | 0.019143                                                | 78,053                            | 1,494                                           | 77,306                                                | 1,160,508                                              | 14.9                              |
| 73–74.....         | 0.021045                                                | 76,559                            | 1,611                                           | 75,753                                                | 1,083,202                                              | 14.1                              |
| 74–75.....         | 0.023346                                                | 74,948                            | 1,750                                           | 74,073                                                | 1,007,449                                              | 13.4                              |
| 75–76.....         | 0.025436                                                | 73,198                            | 1,862                                           | 72,267                                                | 933,376                                                | 12.8                              |
| 76–77.....         | 0.028950                                                | 71,336                            | 2,065                                           | 70,303                                                | 861,109                                                | 12.1                              |
| 77–78.....         | 0.031754                                                | 69,271                            | 2,200                                           | 68,171                                                | 790,806                                                | 11.4                              |
| 78–79.....         | 0.035412                                                | 67,071                            | 2,375                                           | 65,884                                                | 722,635                                                | 10.8                              |
| 79–80.....         | 0.038774                                                | 64,696                            | 2,508                                           | 63,442                                                | 656,751                                                | 10.2                              |
| 80–81.....         | 0.043718                                                | 62,188                            | 2,719                                           | 60,828                                                | 593,309                                                | 9.5                               |
| 81–82.....         | 0.048564                                                | 59,469                            | 2,888                                           | 58,025                                                | 532,481                                                | 9.0                               |
| 82–83.....         | 0.054104                                                | 56,581                            | 3,061                                           | 55,050                                                | 474,456                                                | 8.4                               |
| 83–84.....         | 0.060689                                                | 53,520                            | 3,248                                           | 51,896                                                | 419,406                                                | 7.8                               |
| 84–85.....         | 0.067642                                                | 50,272                            | 3,400                                           | 48,571                                                | 367,511                                                | 7.3                               |
| 85–86.....         | 0.076212                                                | 46,871                            | 3,572                                           | 45,085                                                | 318,939                                                | 6.8                               |
| 86–87.....         | 0.083733                                                | 43,299                            | 3,626                                           | 41,486                                                | 273,854                                                | 6.3                               |
| 87–88.....         | 0.094759                                                | 39,673                            | 3,759                                           | 37,794                                                | 232,368                                                | 5.9                               |
| 88–89.....         | 0.106971                                                | 35,914                            | 3,842                                           | 33,993                                                | 194,574                                                | 5.4                               |
| 89–90.....         | 0.120425                                                | 32,072                            | 3,862                                           | 30,141                                                | 160,581                                                | 5.0                               |
| 90–91.....         | 0.135163                                                | 28,210                            | 3,813                                           | 26,303                                                | 130,440                                                | 4.6                               |
| 91–92.....         | 0.151206                                                | 24,397                            | 3,689                                           | 22,552                                                | 104,137                                                | 4.3                               |
| 92–93.....         | 0.168548                                                | 20,708                            | 3,490                                           | 18,963                                                | 81,584                                                 | 3.9                               |
| 93–94.....         | 0.187157                                                | 17,218                            | 3,222                                           | 15,606                                                | 62,622                                                 | 3.6                               |
| 94–95.....         | 0.206968                                                | 13,995                            | 2,897                                           | 12,547                                                | 47,015                                                 | 3.4                               |
| 95–96.....         | 0.227878                                                | 11,099                            | 2,529                                           | 9,834                                                 | 34,468                                                 | 3.1                               |
| 96–97.....         | 0.249754                                                | 8,570                             | 2,140                                           | 7,499                                                 | 24,634                                                 | 2.9                               |
| 97–98.....         | 0.272425                                                | 6,429                             | 1,751                                           | 5,554                                                 | 17,134                                                 | 2.7                               |
| 98–99.....         | 0.295695                                                | 4,678                             | 1,383                                           | 3,986                                                 | 11,581                                                 | 2.5                               |
| 99–100.....        | 0.319343                                                | 3,295                             | 1,052                                           | 2,769                                                 | 7,595                                                  | 2.3                               |
| 100 and older..... | 1.000000                                                | 2,242                             | 2,242                                           | 4,826                                                 | 4,826                                                  | 2.2                               |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 4. Life table for the Hispanic population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table04.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table04.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.004919                                                | 100,000                           | 492                                             | 99,564                                                | 7,997,046                                              | 80.0                              |
| 1-2.....    | 0.000350                                                | 99,508                            | 35                                              | 99,491                                                | 7,897,483                                              | 79.4                              |
| 2-3.....    | 0.000230                                                | 99,473                            | 23                                              | 99,462                                                | 7,797,992                                              | 78.4                              |
| 3-4.....    | 0.000165                                                | 99,450                            | 16                                              | 99,442                                                | 7,698,530                                              | 77.4                              |
| 4-5.....    | 0.000130                                                | 99,434                            | 13                                              | 99,428                                                | 7,599,088                                              | 76.4                              |
| 5-6.....    | 0.000125                                                | 99,421                            | 12                                              | 99,415                                                | 7,499,660                                              | 75.4                              |
| 6-7.....    | 0.000115                                                | 99,409                            | 11                                              | 99,403                                                | 7,400,245                                              | 74.4                              |
| 7-8.....    | 0.000108                                                | 99,397                            | 11                                              | 99,392                                                | 7,300,843                                              | 73.5                              |
| 8-9.....    | 0.000099                                                | 99,386                            | 10                                              | 99,382                                                | 7,201,451                                              | 72.5                              |
| 9-10.....   | 0.000090                                                | 99,377                            | 9                                               | 99,372                                                | 7,102,069                                              | 71.5                              |
| 10-11.....  | 0.000085                                                | 99,368                            | 8                                               | 99,363                                                | 7,002,697                                              | 70.5                              |
| 11-12.....  | 0.000093                                                | 99,359                            | 9                                               | 99,355                                                | 6,903,334                                              | 69.5                              |
| 12-13.....  | 0.000125                                                | 99,350                            | 12                                              | 99,344                                                | 6,803,979                                              | 68.5                              |
| 13-14.....  | 0.000185                                                | 99,338                            | 18                                              | 99,328                                                | 6,704,635                                              | 67.5                              |
| 14-15.....  | 0.000267                                                | 99,319                            | 27                                              | 99,306                                                | 6,605,307                                              | 66.5                              |
| 15-16.....  | 0.000360                                                | 99,293                            | 36                                              | 99,275                                                | 6,506,001                                              | 65.5                              |
| 16-17.....  | 0.000452                                                | 99,257                            | 45                                              | 99,235                                                | 6,406,726                                              | 64.5                              |
| 17-18.....  | 0.000540                                                | 99,212                            | 54                                              | 99,185                                                | 6,307,491                                              | 63.6                              |
| 18-19.....  | 0.000618                                                | 99,159                            | 61                                              | 99,128                                                | 6,208,306                                              | 62.6                              |
| 19-20.....  | 0.000688                                                | 99,097                            | 68                                              | 99,063                                                | 6,109,178                                              | 61.6                              |
| 20-21.....  | 0.000757                                                | 99,029                            | 75                                              | 98,992                                                | 6,010,115                                              | 60.7                              |
| 21-22.....  | 0.000831                                                | 98,954                            | 82                                              | 98,913                                                | 5,911,123                                              | 59.7                              |
| 22-23.....  | 0.000908                                                | 98,872                            | 90                                              | 98,827                                                | 5,812,210                                              | 58.8                              |
| 23-24.....  | 0.000990                                                | 98,782                            | 98                                              | 98,733                                                | 5,713,383                                              | 57.8                              |
| 24-25.....  | 0.001078                                                | 98,684                            | 106                                             | 98,631                                                | 5,614,650                                              | 56.9                              |
| 25-26.....  | 0.001171                                                | 98,578                            | 115                                             | 98,520                                                | 5,516,018                                              | 56.0                              |
| 26-27.....  | 0.001263                                                | 98,463                            | 124                                             | 98,400                                                | 5,417,498                                              | 55.0                              |
| 27-28.....  | 0.001347                                                | 98,338                            | 132                                             | 98,272                                                | 5,319,098                                              | 54.1                              |
| 28-29.....  | 0.001415                                                | 98,206                            | 139                                             | 98,136                                                | 5,220,826                                              | 53.2                              |
| 29-30.....  | 0.001468                                                | 98,067                            | 144                                             | 97,995                                                | 5,122,689                                              | 52.2                              |
| 30-31.....  | 0.001518                                                | 97,923                            | 149                                             | 97,849                                                | 5,024,694                                              | 51.3                              |
| 31-32.....  | 0.001568                                                | 97,774                            | 153                                             | 97,698                                                | 4,926,846                                              | 50.4                              |
| 32-33.....  | 0.001614                                                | 97,621                            | 158                                             | 97,542                                                | 4,829,148                                              | 49.5                              |
| 33-34.....  | 0.001657                                                | 97,463                            | 162                                             | 97,383                                                | 4,731,606                                              | 48.5                              |
| 34-35.....  | 0.001700                                                | 97,302                            | 165                                             | 97,219                                                | 4,634,223                                              | 47.6                              |
| 35-36.....  | 0.001743                                                | 97,136                            | 169                                             | 97,052                                                | 4,537,004                                              | 46.7                              |
| 36-37.....  | 0.001789                                                | 96,967                            | 173                                             | 96,880                                                | 4,439,952                                              | 45.8                              |
| 37-38.....  | 0.001842                                                | 96,794                            | 178                                             | 96,705                                                | 4,343,072                                              | 44.9                              |
| 38-39.....  | 0.001906                                                | 96,615                            | 184                                             | 96,523                                                | 4,246,367                                              | 44.0                              |
| 39-40.....  | 0.001979                                                | 96,431                            | 191                                             | 96,336                                                | 4,149,844                                              | 43.0                              |
| 40-41.....  | 0.002058                                                | 96,240                            | 198                                             | 96,141                                                | 4,053,508                                              | 42.1                              |
| 41-42.....  | 0.002142                                                | 96,042                            | 206                                             | 95,939                                                | 3,957,367                                              | 41.2                              |
| 42-43.....  | 0.002236                                                | 95,837                            | 214                                             | 95,729                                                | 3,861,427                                              | 40.3                              |
| 43-44.....  | 0.002344                                                | 95,622                            | 224                                             | 95,510                                                | 3,765,698                                              | 39.4                              |
| 44-45.....  | 0.002467                                                | 95,398                            | 235                                             | 95,280                                                | 3,670,188                                              | 38.5                              |
| 45-46.....  | 0.002606                                                | 95,163                            | 248                                             | 95,039                                                | 3,574,907                                              | 37.6                              |
| 46-47.....  | 0.002761                                                | 94,915                            | 262                                             | 94,784                                                | 3,479,868                                              | 36.7                              |
| 47-48.....  | 0.002930                                                | 94,653                            | 277                                             | 94,514                                                | 3,385,084                                              | 35.8                              |
| 48-49.....  | 0.003110                                                | 94,375                            | 293                                             | 94,229                                                | 3,290,570                                              | 34.9                              |
| 49-50.....  | 0.003303                                                | 94,082                            | 311                                             | 93,927                                                | 3,196,342                                              | 34.0                              |
| 50-51.....  | 0.003510                                                | 93,771                            | 329                                             | 93,607                                                | 3,102,415                                              | 33.1                              |
| 51-52.....  | 0.003742                                                | 93,442                            | 350                                             | 93,267                                                | 3,008,809                                              | 32.2                              |
| 52-53.....  | 0.004012                                                | 93,092                            | 374                                             | 92,906                                                | 2,915,542                                              | 31.3                              |
| 53-54.....  | 0.004334                                                | 92,719                            | 402                                             | 92,518                                                | 2,822,636                                              | 30.4                              |
| 54-55.....  | 0.004704                                                | 92,317                            | 434                                             | 92,100                                                | 2,730,118                                              | 29.6                              |
| 55-56.....  | 0.005105                                                | 91,883                            | 469                                             | 91,648                                                | 2,638,018                                              | 28.7                              |
| 56-57.....  | 0.005533                                                | 91,414                            | 506                                             | 91,161                                                | 2,546,370                                              | 27.9                              |
| 57-58.....  | 0.006013                                                | 90,908                            | 547                                             | 90,635                                                | 2,455,209                                              | 27.0                              |
| 58-59.....  | 0.006550                                                | 90,361                            | 592                                             | 90,065                                                | 2,364,575                                              | 26.2                              |
| 59-60.....  | 0.007140                                                | 89,769                            | 641                                             | 89,449                                                | 2,274,510                                              | 25.3                              |

**Table 4. Life table for the Hispanic population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table04.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table04.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.007794                                                | 89,128                            | 695                                             | 88,781                                                | 2,185,061                                              | 24.5                              |
| 61–62.....         | 0.008485                                                | 88,434                            | 750                                             | 88,059                                                | 2,096,280                                              | 23.7                              |
| 62–63.....         | 0.009168                                                | 87,683                            | 804                                             | 87,281                                                | 2,008,221                                              | 22.9                              |
| 63–64.....         | 0.009815                                                | 86,880                            | 853                                             | 86,453                                                | 1,920,940                                              | 22.1                              |
| 64–65.....         | 0.010452                                                | 86,027                            | 899                                             | 85,577                                                | 1,834,486                                              | 21.3                              |
| 65–66.....         | 0.011118                                                | 85,128                            | 946                                             | 84,654                                                | 1,748,909                                              | 20.5                              |
| 66–67.....         | 0.011876                                                | 84,181                            | 1,000                                           | 83,681                                                | 1,664,255                                              | 19.8                              |
| 67–68.....         | 0.012763                                                | 83,181                            | 1,062                                           | 82,651                                                | 1,580,573                                              | 19.0                              |
| 68–69.....         | 0.013825                                                | 82,120                            | 1,135                                           | 81,552                                                | 1,497,923                                              | 18.2                              |
| 69–70.....         | 0.015057                                                | 80,984                            | 1,219                                           | 80,375                                                | 1,416,370                                              | 17.5                              |
| 70–71.....         | 0.016444                                                | 79,765                            | 1,312                                           | 79,109                                                | 1,335,996                                              | 16.7                              |
| 71–72.....         | 0.017950                                                | 78,453                            | 1,408                                           | 77,749                                                | 1,256,886                                              | 16.0                              |
| 72–73.....         | 0.019556                                                | 77,045                            | 1,507                                           | 76,292                                                | 1,179,137                                              | 15.3                              |
| 73–74.....         | 0.021233                                                | 75,539                            | 1,604                                           | 74,737                                                | 1,102,845                                              | 14.6                              |
| 74–75.....         | 0.023017                                                | 73,935                            | 1,702                                           | 73,084                                                | 1,028,109                                              | 13.9                              |
| 75–76.....         | 0.024971                                                | 72,233                            | 1,804                                           | 71,331                                                | 955,025                                                | 13.2                              |
| 76–77.....         | 0.027258                                                | 70,429                            | 1,920                                           | 69,469                                                | 883,694                                                | 12.5                              |
| 77–78.....         | 0.029858                                                | 68,509                            | 2,046                                           | 67,487                                                | 814,225                                                | 11.9                              |
| 78–79.....         | 0.033067                                                | 66,464                            | 2,198                                           | 65,365                                                | 746,738                                                | 11.2                              |
| 79–80.....         | 0.036344                                                | 64,266                            | 2,336                                           | 63,098                                                | 681,373                                                | 10.6                              |
| 80–81.....         | 0.040959                                                | 61,930                            | 2,537                                           | 60,662                                                | 618,275                                                | 10.0                              |
| 81–82.....         | 0.045791                                                | 59,394                            | 2,720                                           | 58,034                                                | 557,613                                                | 9.4                               |
| 82–83.....         | 0.051061                                                | 56,674                            | 2,894                                           | 55,227                                                | 499,579                                                | 8.8                               |
| 83–84.....         | 0.056825                                                | 53,780                            | 3,056                                           | 52,252                                                | 444,352                                                | 8.3                               |
| 84–85.....         | 0.063009                                                | 50,724                            | 3,196                                           | 49,126                                                | 392,099                                                | 7.7                               |
| 85–86.....         | 0.070699                                                | 47,528                            | 3,360                                           | 45,848                                                | 342,973                                                | 7.2                               |
| 86–87.....         | 0.077225                                                | 44,168                            | 3,411                                           | 42,462                                                | 297,125                                                | 6.7                               |
| 87–88.....         | 0.087209                                                | 40,757                            | 3,554                                           | 38,980                                                | 254,663                                                | 6.2                               |
| 88–89.....         | 0.098247                                                | 37,203                            | 3,655                                           | 35,375                                                | 215,683                                                | 5.8                               |
| 89–90.....         | 0.110389                                                | 33,548                            | 3,703                                           | 31,696                                                | 180,308                                                | 5.4                               |
| 90–91.....         | 0.123671                                                | 29,844                            | 3,691                                           | 27,999                                                | 148,612                                                | 5.0                               |
| 91–92.....         | 0.138113                                                | 26,153                            | 3,612                                           | 24,347                                                | 120,613                                                | 4.6                               |
| 92–93.....         | 0.153712                                                | 22,541                            | 3,465                                           | 20,809                                                | 96,266                                                 | 4.3                               |
| 93–94.....         | 0.170442                                                | 19,076                            | 3,251                                           | 17,451                                                | 75,457                                                 | 4.0                               |
| 94–95.....         | 0.188248                                                | 15,825                            | 2,979                                           | 14,336                                                | 58,006                                                 | 3.7                               |
| 95–96.....         | 0.207046                                                | 12,846                            | 2,660                                           | 11,516                                                | 43,671                                                 | 3.4                               |
| 96–97.....         | 0.226722                                                | 10,186                            | 2,309                                           | 9,032                                                 | 32,155                                                 | 3.2                               |
| 97–98.....         | 0.247134                                                | 7,877                             | 1,947                                           | 6,904                                                 | 23,123                                                 | 2.9                               |
| 98–99.....         | 0.268113                                                | 5,930                             | 1,590                                           | 5,135                                                 | 16,219                                                 | 2.7                               |
| 99–100.....        | 0.289470                                                | 4,340                             | 1,256                                           | 3,712                                                 | 11,084                                                 | 2.6                               |
| 100 and older..... | 1.000000                                                | 3,084                             | 3,084                                           | 7,372                                                 | 7,372                                                  | 2.4                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 5. Life table for Hispanic males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table05.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table05.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.005334                                                | 100,000                           | 533                                             | 99,530                                                | 7,702,415                                              | 77.0                              |
| 1-2.....    | 0.000362                                                | 99,467                            | 36                                              | 99,449                                                | 7,602,885                                              | 76.4                              |
| 2-3.....    | 0.000230                                                | 99,431                            | 23                                              | 99,419                                                | 7,503,437                                              | 75.5                              |
| 3-4.....    | 0.000174                                                | 99,408                            | 17                                              | 99,399                                                | 7,404,017                                              | 74.5                              |
| 4-5.....    | 0.000133                                                | 99,390                            | 13                                              | 99,384                                                | 7,304,618                                              | 73.5                              |
| 5-6.....    | 0.000134                                                | 99,377                            | 13                                              | 99,371                                                | 7,205,235                                              | 72.5                              |
| 6-7.....    | 0.000129                                                | 99,364                            | 13                                              | 99,357                                                | 7,105,864                                              | 71.5                              |
| 7-8.....    | 0.000122                                                | 99,351                            | 12                                              | 99,345                                                | 7,006,507                                              | 70.5                              |
| 8-9.....    | 0.000108                                                | 99,339                            | 11                                              | 99,334                                                | 6,907,162                                              | 69.5                              |
| 9-10.....   | 0.000087                                                | 99,328                            | 9                                               | 99,324                                                | 6,807,828                                              | 68.5                              |
| 10-11.....  | 0.000072                                                | 99,320                            | 7                                               | 99,316                                                | 6,708,504                                              | 67.5                              |
| 11-12.....  | 0.000077                                                | 99,312                            | 8                                               | 99,309                                                | 6,609,188                                              | 66.5                              |
| 12-13.....  | 0.000120                                                | 99,305                            | 12                                              | 99,299                                                | 6,509,880                                              | 65.6                              |
| 13-14.....  | 0.000212                                                | 99,293                            | 21                                              | 99,282                                                | 6,410,581                                              | 64.6                              |
| 14-15.....  | 0.000340                                                | 99,272                            | 34                                              | 99,255                                                | 6,311,298                                              | 63.6                              |
| 15-16.....  | 0.000486                                                | 99,238                            | 48                                              | 99,214                                                | 6,212,043                                              | 62.6                              |
| 16-17.....  | 0.000629                                                | 99,190                            | 62                                              | 99,159                                                | 6,112,829                                              | 61.6                              |
| 17-18.....  | 0.000762                                                | 99,127                            | 76                                              | 99,090                                                | 6,013,671                                              | 60.7                              |
| 18-19.....  | 0.000874                                                | 99,052                            | 87                                              | 99,009                                                | 5,914,581                                              | 59.7                              |
| 19-20.....  | 0.000971                                                | 98,965                            | 96                                              | 98,917                                                | 5,815,573                                              | 58.8                              |
| 20-21.....  | 0.001065                                                | 98,869                            | 105                                             | 98,817                                                | 5,716,655                                              | 57.8                              |
| 21-22.....  | 0.001168                                                | 98,764                            | 115                                             | 98,706                                                | 5,617,839                                              | 56.9                              |
| 22-23.....  | 0.001283                                                | 98,649                            | 127                                             | 98,585                                                | 5,519,132                                              | 55.9                              |
| 23-24.....  | 0.001420                                                | 98,522                            | 140                                             | 98,452                                                | 5,420,547                                              | 55.0                              |
| 24-25.....  | 0.001573                                                | 98,382                            | 155                                             | 98,305                                                | 5,322,095                                              | 54.1                              |
| 25-26.....  | 0.001738                                                | 98,227                            | 171                                             | 98,142                                                | 5,223,790                                              | 53.2                              |
| 26-27.....  | 0.001898                                                | 98,057                            | 186                                             | 97,964                                                | 5,125,648                                              | 52.3                              |
| 27-28.....  | 0.002035                                                | 97,871                            | 199                                             | 97,771                                                | 5,027,685                                              | 51.4                              |
| 28-29.....  | 0.002133                                                | 97,671                            | 208                                             | 97,567                                                | 4,929,914                                              | 50.5                              |
| 29-30.....  | 0.002197                                                | 97,463                            | 214                                             | 97,356                                                | 4,832,347                                              | 49.6                              |
| 30-31.....  | 0.002251                                                | 97,249                            | 219                                             | 97,139                                                | 4,734,991                                              | 48.7                              |
| 31-32.....  | 0.002307                                                | 97,030                            | 224                                             | 96,918                                                | 4,637,851                                              | 47.8                              |
| 32-33.....  | 0.002360                                                | 96,806                            | 228                                             | 96,692                                                | 4,540,933                                              | 46.9                              |
| 33-34.....  | 0.002413                                                | 96,578                            | 233                                             | 96,461                                                | 4,444,241                                              | 46.0                              |
| 34-35.....  | 0.002470                                                | 96,345                            | 238                                             | 96,226                                                | 4,347,780                                              | 45.1                              |
| 35-36.....  | 0.002524                                                | 96,107                            | 243                                             | 95,985                                                | 4,251,555                                              | 44.2                              |
| 36-37.....  | 0.002578                                                | 95,864                            | 247                                             | 95,740                                                | 4,155,569                                              | 43.3                              |
| 37-38.....  | 0.002642                                                | 95,617                            | 253                                             | 95,491                                                | 4,059,829                                              | 42.5                              |
| 38-39.....  | 0.002719                                                | 95,364                            | 259                                             | 95,235                                                | 3,964,338                                              | 41.6                              |
| 39-40.....  | 0.002806                                                | 95,105                            | 267                                             | 94,972                                                | 3,869,104                                              | 40.7                              |
| 40-41.....  | 0.002901                                                | 94,838                            | 275                                             | 94,701                                                | 3,774,132                                              | 39.8                              |
| 41-42.....  | 0.003002                                                | 94,563                            | 284                                             | 94,421                                                | 3,679,432                                              | 38.9                              |
| 42-43.....  | 0.003110                                                | 94,279                            | 293                                             | 94,133                                                | 3,585,010                                              | 38.0                              |
| 43-44.....  | 0.003228                                                | 93,986                            | 303                                             | 93,834                                                | 3,490,878                                              | 37.1                              |
| 44-45.....  | 0.003360                                                | 93,683                            | 315                                             | 93,525                                                | 3,397,044                                              | 36.3                              |
| 45-46.....  | 0.003514                                                | 93,368                            | 328                                             | 93,204                                                | 3,303,519                                              | 35.4                              |
| 46-47.....  | 0.003688                                                | 93,040                            | 343                                             | 92,868                                                | 3,210,315                                              | 34.5                              |
| 47-48.....  | 0.003875                                                | 92,696                            | 359                                             | 92,517                                                | 3,117,447                                              | 33.6                              |
| 48-49.....  | 0.004068                                                | 92,337                            | 376                                             | 92,149                                                | 3,024,930                                              | 32.8                              |
| 49-50.....  | 0.004273                                                | 91,962                            | 393                                             | 91,765                                                | 2,932,781                                              | 31.9                              |
| 50-51.....  | 0.004486                                                | 91,569                            | 411                                             | 91,363                                                | 2,841,016                                              | 31.0                              |
| 51-52.....  | 0.004735                                                | 91,158                            | 432                                             | 90,942                                                | 2,749,652                                              | 30.2                              |
| 52-53.....  | 0.005058                                                | 90,726                            | 459                                             | 90,497                                                | 2,658,710                                              | 29.3                              |
| 53-54.....  | 0.005484                                                | 90,267                            | 495                                             | 90,020                                                | 2,568,214                                              | 28.5                              |
| 54-55.....  | 0.006003                                                | 89,772                            | 539                                             | 89,503                                                | 2,478,194                                              | 27.6                              |
| 55-56.....  | 0.006578                                                | 89,233                            | 587                                             | 88,940                                                | 2,388,691                                              | 26.8                              |
| 56-57.....  | 0.007182                                                | 88,646                            | 637                                             | 88,328                                                | 2,299,751                                              | 25.9                              |
| 57-58.....  | 0.007827                                                | 88,010                            | 689                                             | 87,665                                                | 2,211,423                                              | 25.1                              |
| 58-59.....  | 0.008504                                                | 87,321                            | 743                                             | 86,950                                                | 2,123,758                                              | 24.3                              |
| 59-60.....  | 0.009216                                                | 86,578                            | 798                                             | 86,179                                                | 2,036,808                                              | 23.5                              |

**Table 5. Life table for Hispanic males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table05.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table05.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.009996                                                | 85,780                            | 857                                             | 85,352                                                | 1,950,629                                              | 22.7                              |
| 61–62.....         | 0.010834                                                | 84,923                            | 920                                             | 84,463                                                | 1,865,277                                              | 22.0                              |
| 62–63.....         | 0.011680                                                | 84,003                            | 981                                             | 83,512                                                | 1,780,814                                              | 21.2                              |
| 63–64.....         | 0.012515                                                | 83,022                            | 1,039                                           | 82,502                                                | 1,697,302                                              | 20.4                              |
| 64–65.....         | 0.013366                                                | 81,983                            | 1,096                                           | 81,435                                                | 1,614,800                                              | 19.7                              |
| 65–66.....         | 0.014269                                                | 80,887                            | 1,154                                           | 80,310                                                | 1,533,365                                              | 19.0                              |
| 66–67.....         | 0.015281                                                | 79,733                            | 1,218                                           | 79,124                                                | 1,453,056                                              | 18.2                              |
| 67–68.....         | 0.016441                                                | 78,514                            | 1,291                                           | 77,869                                                | 1,373,932                                              | 17.5                              |
| 68–69.....         | 0.017789                                                | 77,223                            | 1,374                                           | 76,537                                                | 1,296,063                                              | 16.8                              |
| 69–70.....         | 0.019313                                                | 75,850                            | 1,465                                           | 75,117                                                | 1,219,527                                              | 16.1                              |
| 70–71.....         | 0.021017                                                | 74,385                            | 1,563                                           | 73,603                                                | 1,144,409                                              | 15.4                              |
| 71–72.....         | 0.022859                                                | 72,822                            | 1,665                                           | 71,989                                                | 1,070,806                                              | 14.7                              |
| 72–73.....         | 0.024777                                                | 71,157                            | 1,763                                           | 70,275                                                | 998,817                                                | 14.0                              |
| 73–74.....         | 0.026718                                                | 69,394                            | 1,854                                           | 68,467                                                | 928,541                                                | 13.4                              |
| 74–75.....         | 0.028723                                                | 67,540                            | 1,940                                           | 66,570                                                | 860,074                                                | 12.7                              |
| 75–76.....         | 0.030890                                                | 65,600                            | 2,026                                           | 64,587                                                | 793,505                                                | 12.1                              |
| 76–77.....         | 0.033382                                                | 63,574                            | 2,122                                           | 62,512                                                | 728,918                                                | 11.5                              |
| 77–78.....         | 0.036246                                                | 61,451                            | 2,227                                           | 60,338                                                | 666,405                                                | 10.8                              |
| 78–79.....         | 0.039889                                                | 59,224                            | 2,362                                           | 58,043                                                | 606,068                                                | 10.2                              |
| 79–80.....         | 0.043737                                                | 56,862                            | 2,487                                           | 55,618                                                | 548,025                                                | 9.6                               |
| 80–81.....         | 0.049273                                                | 54,375                            | 2,679                                           | 53,035                                                | 492,407                                                | 9.1                               |
| 81–82.....         | 0.055161                                                | 51,695                            | 2,852                                           | 50,270                                                | 439,372                                                | 8.5                               |
| 82–83.....         | 0.061559                                                | 48,844                            | 3,007                                           | 47,341                                                | 389,102                                                | 8.0                               |
| 83–84.....         | 0.068164                                                | 45,837                            | 3,124                                           | 44,275                                                | 341,762                                                | 7.5                               |
| 84–85.....         | 0.075238                                                | 42,713                            | 3,214                                           | 41,106                                                | 297,487                                                | 7.0                               |
| 85–86.....         | 0.084101                                                | 39,499                            | 3,322                                           | 37,838                                                | 256,381                                                | 6.5                               |
| 86–87.....         | 0.091397                                                | 36,177                            | 3,306                                           | 34,524                                                | 218,543                                                | 6.0                               |
| 87–88.....         | 0.103049                                                | 32,871                            | 3,387                                           | 31,177                                                | 184,019                                                | 5.6                               |
| 88–89.....         | 0.115856                                                | 29,483                            | 3,416                                           | 27,775                                                | 152,842                                                | 5.2                               |
| 89–90.....         | 0.129850                                                | 26,068                            | 3,385                                           | 24,375                                                | 125,067                                                | 4.8                               |
| 90–91.....         | 0.145041                                                | 22,683                            | 3,290                                           | 21,038                                                | 100,691                                                | 4.4                               |
| 91–92.....         | 0.161416                                                | 19,393                            | 3,130                                           | 17,828                                                | 79,654                                                 | 4.1                               |
| 92–93.....         | 0.178932                                                | 16,262                            | 2,910                                           | 14,807                                                | 61,826                                                 | 3.8                               |
| 93–94.....         | 0.197517                                                | 13,353                            | 2,637                                           | 12,034                                                | 47,019                                                 | 3.5                               |
| 94–95.....         | 0.217065                                                | 10,715                            | 2,326                                           | 9,552                                                 | 34,985                                                 | 3.3                               |
| 95–96.....         | 0.237439                                                | 8,389                             | 1,992                                           | 7,393                                                 | 25,433                                                 | 3.0                               |
| 96–97.....         | 0.258474                                                | 6,397                             | 1,654                                           | 5,571                                                 | 18,039                                                 | 2.8                               |
| 97–98.....         | 0.279978                                                | 4,744                             | 1,328                                           | 4,080                                                 | 12,469                                                 | 2.6                               |
| 98–99.....         | 0.301742                                                | 3,416                             | 1,031                                           | 2,900                                                 | 8,389                                                  | 2.5                               |
| 99–100.....        | 0.323545                                                | 2,385                             | 772                                             | 1,999                                                 | 5,489                                                  | 2.3                               |
| 100 and older..... | 1.000000                                                | 1,613                             | 1,613                                           | 3,489                                                 | 3,489                                                  | 2.2                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 6. Life table for Hispanic females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table06.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table06.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.004689                                                | 100,000                           | 469                                             | 99,581                                                | 8,283,690                                              | 82.8                              |
| 1-2.....    | 0.000332                                                | 99,531                            | 33                                              | 99,515                                                | 8,184,109                                              | 82.2                              |
| 2-3.....    | 0.000226                                                | 99,498                            | 22                                              | 99,487                                                | 8,084,595                                              | 81.3                              |
| 3-4.....    | 0.000152                                                | 99,476                            | 15                                              | 99,468                                                | 7,985,108                                              | 80.3                              |
| 4-5.....    | 0.000124                                                | 99,460                            | 12                                              | 99,454                                                | 7,885,640                                              | 79.3                              |
| 5-6.....    | 0.000112                                                | 99,448                            | 11                                              | 99,442                                                | 7,786,186                                              | 78.3                              |
| 6-7.....    | 0.000098                                                | 99,437                            | 10                                              | 99,432                                                | 7,686,743                                              | 77.3                              |
| 7-8.....    | 0.000090                                                | 99,427                            | 9                                               | 99,423                                                | 7,587,311                                              | 76.3                              |
| 8-9.....    | 0.000087                                                | 99,418                            | 9                                               | 99,414                                                | 7,487,889                                              | 75.3                              |
| 9-10.....   | 0.000089                                                | 99,409                            | 9                                               | 99,405                                                | 7,388,475                                              | 74.3                              |
| 10-11.....  | 0.000095                                                | 99,401                            | 9                                               | 99,396                                                | 7,289,070                                              | 73.3                              |
| 11-12.....  | 0.000107                                                | 99,391                            | 11                                              | 99,386                                                | 7,189,674                                              | 72.3                              |
| 12-13.....  | 0.000126                                                | 99,381                            | 13                                              | 99,374                                                | 7,090,288                                              | 71.3                              |
| 13-14.....  | 0.000154                                                | 99,368                            | 15                                              | 99,360                                                | 6,990,913                                              | 70.4                              |
| 14-15.....  | 0.000188                                                | 99,353                            | 19                                              | 99,343                                                | 6,891,553                                              | 69.4                              |
| 15-16.....  | 0.000226                                                | 99,334                            | 22                                              | 99,323                                                | 6,792,210                                              | 68.4                              |
| 16-17.....  | 0.000265                                                | 99,312                            | 26                                              | 99,298                                                | 6,692,887                                              | 67.4                              |
| 17-18.....  | 0.000306                                                | 99,285                            | 30                                              | 99,270                                                | 6,593,588                                              | 66.4                              |
| 18-19.....  | 0.000346                                                | 99,255                            | 34                                              | 99,238                                                | 6,494,318                                              | 65.4                              |
| 19-20.....  | 0.000387                                                | 99,221                            | 38                                              | 99,201                                                | 6,395,080                                              | 64.5                              |
| 20-21.....  | 0.000429                                                | 99,182                            | 43                                              | 99,161                                                | 6,295,879                                              | 63.5                              |
| 21-22.....  | 0.000471                                                | 99,140                            | 47                                              | 99,116                                                | 6,196,718                                              | 62.5                              |
| 22-23.....  | 0.000506                                                | 99,093                            | 50                                              | 99,068                                                | 6,097,602                                              | 61.5                              |
| 23-24.....  | 0.000532                                                | 99,043                            | 53                                              | 99,016                                                | 5,998,534                                              | 60.6                              |
| 24-25.....  | 0.000553                                                | 98,990                            | 55                                              | 98,963                                                | 5,899,517                                              | 59.6                              |
| 25-26.....  | 0.000571                                                | 98,935                            | 57                                              | 98,907                                                | 5,800,554                                              | 58.6                              |
| 26-27.....  | 0.000593                                                | 98,879                            | 59                                              | 98,850                                                | 5,701,647                                              | 57.7                              |
| 27-28.....  | 0.000619                                                | 98,820                            | 61                                              | 98,790                                                | 5,602,798                                              | 56.7                              |
| 28-29.....  | 0.000651                                                | 98,759                            | 64                                              | 98,727                                                | 5,504,008                                              | 55.7                              |
| 29-30.....  | 0.000688                                                | 98,695                            | 68                                              | 98,661                                                | 5,405,281                                              | 54.8                              |
| 30-31.....  | 0.000727                                                | 98,627                            | 72                                              | 98,591                                                | 5,306,620                                              | 53.8                              |
| 31-32.....  | 0.000766                                                | 98,555                            | 75                                              | 98,517                                                | 5,208,029                                              | 52.8                              |
| 32-33.....  | 0.000801                                                | 98,480                            | 79                                              | 98,440                                                | 5,109,511                                              | 51.9                              |
| 33-34.....  | 0.000831                                                | 98,401                            | 82                                              | 98,360                                                | 5,011,071                                              | 50.9                              |
| 34-35.....  | 0.000859                                                | 98,319                            | 84                                              | 98,277                                                | 4,912,711                                              | 50.0                              |
| 35-36.....  | 0.000890                                                | 98,235                            | 87                                              | 98,191                                                | 4,814,434                                              | 49.0                              |
| 36-37.....  | 0.000927                                                | 98,147                            | 91                                              | 98,102                                                | 4,716,243                                              | 48.1                              |
| 37-38.....  | 0.000971                                                | 98,056                            | 95                                              | 98,009                                                | 4,618,142                                              | 47.1                              |
| 38-39.....  | 0.001024                                                | 97,961                            | 100                                             | 97,911                                                | 4,520,133                                              | 46.1                              |
| 39-40.....  | 0.001085                                                | 97,861                            | 106                                             | 97,808                                                | 4,422,222                                              | 45.2                              |
| 40-41.....  | 0.001151                                                | 97,755                            | 113                                             | 97,698                                                | 4,324,415                                              | 44.2                              |
| 41-42.....  | 0.001223                                                | 97,642                            | 119                                             | 97,582                                                | 4,226,716                                              | 43.3                              |
| 42-43.....  | 0.001306                                                | 97,523                            | 127                                             | 97,459                                                | 4,129,134                                              | 42.3                              |
| 43-44.....  | 0.001402                                                | 97,395                            | 137                                             | 97,327                                                | 4,031,675                                              | 41.4                              |
| 44-45.....  | 0.001513                                                | 97,259                            | 147                                             | 97,185                                                | 3,934,348                                              | 40.5                              |
| 45-46.....  | 0.001634                                                | 97,112                            | 159                                             | 97,032                                                | 3,837,163                                              | 39.5                              |
| 46-47.....  | 0.001767                                                | 96,953                            | 171                                             | 96,867                                                | 3,740,131                                              | 38.6                              |
| 47-48.....  | 0.001916                                                | 96,782                            | 185                                             | 96,689                                                | 3,643,264                                              | 37.6                              |
| 48-49.....  | 0.002084                                                | 96,596                            | 201                                             | 96,495                                                | 3,546,575                                              | 36.7                              |
| 49-50.....  | 0.002267                                                | 96,395                            | 219                                             | 96,286                                                | 3,450,079                                              | 35.8                              |
| 50-51.....  | 0.002470                                                | 96,176                            | 238                                             | 96,058                                                | 3,353,794                                              | 34.9                              |
| 51-52.....  | 0.002686                                                | 95,939                            | 258                                             | 95,810                                                | 3,257,736                                              | 34.0                              |
| 52-53.....  | 0.002905                                                | 95,681                            | 278                                             | 95,542                                                | 3,161,926                                              | 33.0                              |
| 53-54.....  | 0.003122                                                | 95,403                            | 298                                             | 95,254                                                | 3,066,384                                              | 32.1                              |
| 54-55.....  | 0.003346                                                | 95,105                            | 318                                             | 94,946                                                | 2,971,130                                              | 31.2                              |
| 55-56.....  | 0.003576                                                | 94,787                            | 339                                             | 94,618                                                | 2,876,184                                              | 30.3                              |
| 56-57.....  | 0.003835                                                | 94,448                            | 362                                             | 94,267                                                | 2,781,566                                              | 29.5                              |
| 57-58.....  | 0.004158                                                | 94,086                            | 391                                             | 93,890                                                | 2,687,299                                              | 28.6                              |
| 58-59.....  | 0.004566                                                | 93,695                            | 428                                             | 93,481                                                | 2,593,409                                              | 27.7                              |
| 59-60.....  | 0.005047                                                | 93,267                            | 471                                             | 93,031                                                | 2,499,928                                              | 26.8                              |

**Table 6. Life table for Hispanic females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table06.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table06.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.005591                                                | 92,796                            | 519                                             | 92,537                                                | 2,406,897                                              | 25.9                              |
| 61–62.....         | 0.006156                                                | 92,277                            | 568                                             | 91,993                                                | 2,314,360                                              | 25.1                              |
| 62–63.....         | 0.006707                                                | 91,709                            | 615                                             | 91,402                                                | 2,222,367                                              | 24.2                              |
| 63–64.....         | 0.007215                                                | 91,094                            | 657                                             | 90,766                                                | 2,130,965                                              | 23.4                              |
| 64–65.....         | 0.007703                                                | 90,437                            | 697                                             | 90,089                                                | 2,040,200                                              | 22.6                              |
| 65–66.....         | 0.008217                                                | 89,740                            | 737                                             | 89,372                                                | 1,950,111                                              | 21.7                              |
| 66–67.....         | 0.008813                                                | 89,003                            | 784                                             | 88,611                                                | 1,860,740                                              | 20.9                              |
| 67–68.....         | 0.009521                                                | 88,218                            | 840                                             | 87,798                                                | 1,772,129                                              | 20.1                              |
| 68–69.....         | 0.010381                                                | 87,379                            | 907                                             | 86,925                                                | 1,684,330                                              | 19.3                              |
| 69–70.....         | 0.011396                                                | 86,471                            | 985                                             | 85,979                                                | 1,597,405                                              | 18.5                              |
| 70–71.....         | 0.012546                                                | 85,486                            | 1,072                                           | 84,950                                                | 1,511,427                                              | 17.7                              |
| 71–72.....         | 0.013812                                                | 84,413                            | 1,166                                           | 83,831                                                | 1,426,477                                              | 16.9                              |
| 72–73.....         | 0.015207                                                | 83,248                            | 1,266                                           | 82,615                                                | 1,342,646                                              | 16.1                              |
| 73–74.....         | 0.016730                                                | 81,982                            | 1,372                                           | 81,296                                                | 1,260,032                                              | 15.4                              |
| 74–75.....         | 0.018407                                                | 80,610                            | 1,484                                           | 79,868                                                | 1,178,736                                              | 14.6                              |
| 75–76.....         | 0.020270                                                | 79,126                            | 1,604                                           | 78,324                                                | 1,098,868                                              | 13.9                              |
| 76–77.....         | 0.022471                                                | 77,522                            | 1,742                                           | 76,651                                                | 1,020,544                                              | 13.2                              |
| 77–78.....         | 0.024960                                                | 75,780                            | 1,891                                           | 74,835                                                | 943,892                                                | 12.5                              |
| 78–79.....         | 0.027967                                                | 73,889                            | 2,066                                           | 72,856                                                | 869,057                                                | 11.8                              |
| 79–80.....         | 0.030971                                                | 71,822                            | 2,224                                           | 70,710                                                | 796,202                                                | 11.1                              |
| 80–81.....         | 0.035165                                                | 69,598                            | 2,447                                           | 68,374                                                | 725,492                                                | 10.4                              |
| 81–82.....         | 0.039576                                                | 67,151                            | 2,658                                           | 65,822                                                | 657,117                                                | 9.8                               |
| 82–83.....         | 0.044424                                                | 64,493                            | 2,865                                           | 63,061                                                | 591,295                                                | 9.2                               |
| 83–84.....         | 0.050042                                                | 61,628                            | 3,084                                           | 60,086                                                | 528,235                                                | 8.6                               |
| 84–85.....         | 0.056146                                                | 58,544                            | 3,287                                           | 56,901                                                | 468,149                                                | 8.0                               |
| 85–86.....         | 0.063721                                                | 55,257                            | 3,521                                           | 53,497                                                | 411,248                                                | 7.4                               |
| 86–87.....         | 0.070014                                                | 51,736                            | 3,622                                           | 49,925                                                | 357,751                                                | 6.9                               |
| 87–88.....         | 0.080042                                                | 48,114                            | 3,851                                           | 46,188                                                | 307,826                                                | 6.4                               |
| 88–89.....         | 0.091273                                                | 44,263                            | 4,040                                           | 42,243                                                | 261,638                                                | 5.9                               |
| 89–90.....         | 0.103783                                                | 40,223                            | 4,174                                           | 38,136                                                | 219,395                                                | 5.5                               |
| 90–91.....         | 0.117635                                                | 36,048                            | 4,241                                           | 33,928                                                | 181,260                                                | 5.0                               |
| 91–92.....         | 0.132874                                                | 31,808                            | 4,226                                           | 29,695                                                | 147,332                                                | 4.6                               |
| 92–93.....         | 0.149517                                                | 27,581                            | 4,124                                           | 25,519                                                | 117,637                                                | 4.3                               |
| 93–94.....         | 0.167554                                                | 23,457                            | 3,930                                           | 21,492                                                | 92,118                                                 | 3.9                               |
| 94–95.....         | 0.186934                                                | 19,527                            | 3,650                                           | 17,702                                                | 70,626                                                 | 3.6                               |
| 95–96.....         | 0.207572                                                | 15,877                            | 3,296                                           | 14,229                                                | 52,924                                                 | 3.3                               |
| 96–97.....         | 0.229338                                                | 12,581                            | 2,885                                           | 11,139                                                | 38,695                                                 | 3.1                               |
| 97–98.....         | 0.252063                                                | 9,696                             | 2,444                                           | 8,474                                                 | 27,556                                                 | 2.8                               |
| 98–99.....         | 0.275542                                                | 7,252                             | 1,998                                           | 6,253                                                 | 19,082                                                 | 2.6                               |
| 99–100.....        | 0.299539                                                | 5,254                             | 1,574                                           | 4,467                                                 | 12,830                                                 | 2.4                               |
| 100 and older..... | 1.000000                                                | 3,680                             | 3,680                                           | 8,363                                                 | 8,363                                                  | 2.3                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 7. Life table for the American Indian and Alaska Native, non-Hispanic population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table07.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table07.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.009041                                                | 100,000                           | 904                                             | 99,213                                                | 6,778,288                                              | 67.8                              |
| 1-2.....    | 0.001205                                                | 99,096                            | 119                                             | 99,036                                                | 6,679,075                                              | 67.4                              |
| 2-3.....    | 0.000762                                                | 98,976                            | 75                                              | 98,939                                                | 6,580,039                                              | 66.5                              |
| 3-4.....    | 0.000445                                                | 98,901                            | 44                                              | 98,879                                                | 6,481,100                                              | 65.5                              |
| 4-5.....    | 0.000312                                                | 98,857                            | 31                                              | 98,842                                                | 6,382,221                                              | 64.6                              |
| 5-6.....    | 0.000353                                                | 98,826                            | 35                                              | 98,809                                                | 6,283,380                                              | 63.6                              |
| 6-7.....    | 0.000335                                                | 98,791                            | 33                                              | 98,775                                                | 6,184,571                                              | 62.6                              |
| 7-8.....    | 0.000318                                                | 98,758                            | 31                                              | 98,743                                                | 6,085,796                                              | 61.6                              |
| 8-9.....    | 0.000290                                                | 98,727                            | 29                                              | 98,712                                                | 5,987,053                                              | 60.6                              |
| 9-10.....   | 0.000253                                                | 98,698                            | 25                                              | 98,686                                                | 5,888,341                                              | 59.7                              |
| 10-11.....  | 0.000229                                                | 98,673                            | 23                                              | 98,662                                                | 5,789,655                                              | 58.7                              |
| 11-12.....  | 0.000248                                                | 98,651                            | 24                                              | 98,638                                                | 5,690,993                                              | 57.7                              |
| 12-13.....  | 0.000348                                                | 98,626                            | 34                                              | 98,609                                                | 5,592,355                                              | 56.7                              |
| 13-14.....  | 0.000549                                                | 98,592                            | 54                                              | 98,565                                                | 5,493,746                                              | 55.7                              |
| 14-15.....  | 0.000823                                                | 98,538                            | 81                                              | 98,497                                                | 5,395,181                                              | 54.8                              |
| 15-16.....  | 0.001143                                                | 98,457                            | 113                                             | 98,400                                                | 5,296,684                                              | 53.8                              |
| 16-17.....  | 0.001455                                                | 98,344                            | 143                                             | 98,272                                                | 5,198,284                                              | 52.9                              |
| 17-18.....  | 0.001713                                                | 98,201                            | 168                                             | 98,117                                                | 5,100,011                                              | 51.9                              |
| 18-19.....  | 0.001882                                                | 98,033                            | 184                                             | 97,940                                                | 5,001,895                                              | 51.0                              |
| 19-20.....  | 0.001993                                                | 97,848                            | 195                                             | 97,751                                                | 4,903,954                                              | 50.1                              |
| 20-21.....  | 0.002093                                                | 97,653                            | 204                                             | 97,551                                                | 4,806,203                                              | 49.2                              |
| 21-22.....  | 0.002236                                                | 97,449                            | 218                                             | 97,340                                                | 4,708,652                                              | 48.3                              |
| 22-23.....  | 0.002440                                                | 97,231                            | 237                                             | 97,112                                                | 4,611,313                                              | 47.4                              |
| 23-24.....  | 0.002735                                                | 96,994                            | 265                                             | 96,861                                                | 4,514,200                                              | 46.5                              |
| 24-25.....  | 0.003109                                                | 96,728                            | 301                                             | 96,578                                                | 4,417,339                                              | 45.7                              |
| 25-26.....  | 0.003512                                                | 96,428                            | 339                                             | 96,258                                                | 4,320,761                                              | 44.8                              |
| 26-27.....  | 0.003919                                                | 96,089                            | 377                                             | 95,901                                                | 4,224,503                                              | 44.0                              |
| 27-28.....  | 0.004340                                                | 95,713                            | 415                                             | 95,505                                                | 4,128,602                                              | 43.1                              |
| 28-29.....  | 0.004751                                                | 95,297                            | 453                                             | 95,071                                                | 4,033,097                                              | 42.3                              |
| 29-30.....  | 0.005136                                                | 94,844                            | 487                                             | 94,601                                                | 3,938,027                                              | 41.5                              |
| 30-31.....  | 0.005500                                                | 94,357                            | 519                                             | 94,098                                                | 3,843,426                                              | 40.7                              |
| 31-32.....  | 0.005853                                                | 93,838                            | 549                                             | 93,564                                                | 3,749,328                                              | 40.0                              |
| 32-33.....  | 0.006205                                                | 93,289                            | 579                                             | 93,000                                                | 3,655,765                                              | 39.2                              |
| 33-34.....  | 0.006580                                                | 92,710                            | 610                                             | 92,405                                                | 3,562,765                                              | 38.4                              |
| 34-35.....  | 0.006985                                                | 92,100                            | 643                                             | 91,778                                                | 3,470,360                                              | 37.7                              |
| 35-36.....  | 0.007459                                                | 91,457                            | 682                                             | 91,116                                                | 3,378,582                                              | 36.9                              |
| 36-37.....  | 0.007942                                                | 90,775                            | 721                                             | 90,414                                                | 3,287,466                                              | 36.2                              |
| 37-38.....  | 0.008317                                                | 90,054                            | 749                                             | 89,679                                                | 3,197,052                                              | 35.5                              |
| 38-39.....  | 0.008505                                                | 89,305                            | 760                                             | 88,925                                                | 3,107,373                                              | 34.8                              |
| 39-40.....  | 0.008561                                                | 88,545                            | 758                                             | 88,166                                                | 3,018,448                                              | 34.1                              |
| 40-41.....  | 0.008536                                                | 87,787                            | 749                                             | 87,412                                                | 2,930,281                                              | 33.4                              |
| 41-42.....  | 0.008594                                                | 87,038                            | 748                                             | 86,664                                                | 2,842,869                                              | 32.7                              |
| 42-43.....  | 0.008881                                                | 86,290                            | 766                                             | 85,907                                                | 2,756,205                                              | 31.9                              |
| 43-44.....  | 0.009507                                                | 85,523                            | 813                                             | 85,117                                                | 2,670,299                                              | 31.2                              |
| 44-45.....  | 0.010404                                                | 84,710                            | 881                                             | 84,270                                                | 2,585,182                                              | 30.5                              |
| 45-46.....  | 0.011475                                                | 83,829                            | 962                                             | 83,348                                                | 2,500,912                                              | 29.8                              |
| 46-47.....  | 0.012497                                                | 82,867                            | 1,036                                           | 82,349                                                | 2,417,564                                              | 29.2                              |
| 47-48.....  | 0.013291                                                | 81,831                            | 1,088                                           | 81,288                                                | 2,335,215                                              | 28.5                              |
| 48-49.....  | 0.013697                                                | 80,744                            | 1,106                                           | 80,191                                                | 2,253,927                                              | 27.9                              |
| 49-50.....  | 0.013826                                                | 79,638                            | 1,101                                           | 79,087                                                | 2,173,736                                              | 27.3                              |
| 50-51.....  | 0.013851                                                | 78,537                            | 1,088                                           | 77,993                                                | 2,094,649                                              | 26.7                              |
| 51-52.....  | 0.014012                                                | 77,449                            | 1,085                                           | 76,906                                                | 2,016,656                                              | 26.0                              |
| 52-53.....  | 0.014422                                                | 76,364                            | 1,101                                           | 75,813                                                | 1,939,749                                              | 25.4                              |
| 53-54.....  | 0.015186                                                | 75,263                            | 1,143                                           | 74,691                                                | 1,863,936                                              | 24.8                              |
| 54-55.....  | 0.016199                                                | 74,120                            | 1,201                                           | 73,519                                                | 1,789,245                                              | 24.1                              |
| 55-56.....  | 0.017250                                                | 72,919                            | 1,258                                           | 72,290                                                | 1,715,726                                              | 23.5                              |
| 56-57.....  | 0.018203                                                | 71,661                            | 1,304                                           | 71,009                                                | 1,643,436                                              | 22.9                              |
| 57-58.....  | 0.019092                                                | 70,357                            | 1,343                                           | 69,685                                                | 1,572,427                                              | 22.3                              |
| 58-59.....  | 0.019875                                                | 69,013                            | 1,372                                           | 68,328                                                | 1,502,742                                              | 21.8                              |
| 59-60.....  | 0.020566                                                | 67,642                            | 1,391                                           | 66,946                                                | 1,434,414                                              | 21.2                              |

**Table 7. Life table for the American Indian and Alaska Native, non-Hispanic population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table07.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table07.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.021283                                                | 66,251                            | 1,410                                           | 65,546                                                | 1,367,468                                              | 20.6                              |
| 61–62.....         | 0.022005                                                | 64,841                            | 1,427                                           | 64,127                                                | 1,301,922                                              | 20.1                              |
| 62–63.....         | 0.022610                                                | 63,414                            | 1,434                                           | 62,697                                                | 1,237,795                                              | 19.5                              |
| 63–64.....         | 0.023078                                                | 61,980                            | 1,430                                           | 61,265                                                | 1,175,098                                              | 19.0                              |
| 64–65.....         | 0.023483                                                | 60,550                            | 1,422                                           | 59,839                                                | 1,113,833                                              | 18.4                              |
| 65–66.....         | 0.023814                                                | 59,128                            | 1,408                                           | 58,424                                                | 1,053,995                                              | 17.8                              |
| 66–67.....         | 0.024261                                                | 57,720                            | 1,400                                           | 57,020                                                | 995,571                                                | 17.2                              |
| 67–68.....         | 0.025113                                                | 56,319                            | 1,414                                           | 55,612                                                | 938,551                                                | 16.7                              |
| 68–69.....         | 0.026566                                                | 54,905                            | 1,459                                           | 54,176                                                | 882,939                                                | 16.1                              |
| 69–70.....         | 0.028524                                                | 53,446                            | 1,525                                           | 52,684                                                | 828,764                                                | 15.5                              |
| 70–71.....         | 0.030864                                                | 51,922                            | 1,603                                           | 51,121                                                | 776,079                                                | 14.9                              |
| 71–72.....         | 0.033277                                                | 50,319                            | 1,674                                           | 49,482                                                | 724,959                                                | 14.4                              |
| 72–73.....         | 0.035502                                                | 48,645                            | 1,727                                           | 47,781                                                | 675,477                                                | 13.9                              |
| 73–74.....         | 0.037272                                                | 46,918                            | 1,749                                           | 46,043                                                | 627,695                                                | 13.4                              |
| 74–75.....         | 0.038704                                                | 45,169                            | 1,748                                           | 44,295                                                | 581,652                                                | 12.9                              |
| 75–76.....         | 0.040099                                                | 43,421                            | 1,741                                           | 42,550                                                | 537,357                                                | 12.4                              |
| 76–77.....         | 0.041876                                                | 41,680                            | 1,745                                           | 40,807                                                | 494,807                                                | 11.9                              |
| 77–78.....         | 0.044221                                                | 39,934                            | 1,766                                           | 39,051                                                | 453,999                                                | 11.4                              |
| 78–79.....         | 0.047462                                                | 38,168                            | 1,812                                           | 37,263                                                | 414,948                                                | 10.9                              |
| 79–80.....         | 0.051584                                                | 36,357                            | 1,875                                           | 35,419                                                | 377,685                                                | 10.4                              |
| 80–81.....         | 0.056368                                                | 34,481                            | 1,944                                           | 33,510                                                | 342,266                                                | 9.9                               |
| 81–82.....         | 0.061087                                                | 32,538                            | 1,988                                           | 31,544                                                | 308,757                                                | 9.5                               |
| 82–83.....         | 0.065733                                                | 30,550                            | 2,008                                           | 29,546                                                | 277,213                                                | 9.1                               |
| 83–84.....         | 0.070068                                                | 28,542                            | 2,000                                           | 27,542                                                | 247,666                                                | 8.7                               |
| 84–85.....         | 0.073985                                                | 26,542                            | 1,964                                           | 25,560                                                | 220,124                                                | 8.3                               |
| 85–86.....         | 0.078184                                                | 24,578                            | 1,922                                           | 23,618                                                | 194,564                                                | 7.9                               |
| 86–87.....         | 0.082462                                                | 22,657                            | 1,868                                           | 21,723                                                | 170,946                                                | 7.5                               |
| 87–88.....         | 0.088757                                                | 20,788                            | 1,845                                           | 19,866                                                | 149,224                                                | 7.2                               |
| 88–89.....         | 0.095425                                                | 18,943                            | 1,808                                           | 18,040                                                | 129,358                                                | 6.8                               |
| 89–90.....         | 0.102466                                                | 17,136                            | 1,756                                           | 16,258                                                | 111,318                                                | 6.5                               |
| 90–91.....         | 0.109880                                                | 15,380                            | 1,690                                           | 14,535                                                | 95,060                                                 | 6.2                               |
| 91–92.....         | 0.117659                                                | 13,690                            | 1,611                                           | 12,885                                                | 80,525                                                 | 5.9                               |
| 92–93.....         | 0.125791                                                | 12,079                            | 1,519                                           | 11,319                                                | 67,641                                                 | 5.6                               |
| 93–94.....         | 0.134259                                                | 10,560                            | 1,418                                           | 9,851                                                 | 56,321                                                 | 5.3                               |
| 94–95.....         | 0.143038                                                | 9,142                             | 1,308                                           | 8,488                                                 | 46,471                                                 | 5.1                               |
| 95–96.....         | 0.152098                                                | 7,834                             | 1,192                                           | 7,239                                                 | 37,982                                                 | 4.8                               |
| 96–97.....         | 0.161402                                                | 6,643                             | 1,072                                           | 6,107                                                 | 30,744                                                 | 4.6                               |
| 97–98.....         | 0.170906                                                | 5,571                             | 952                                             | 5,095                                                 | 24,637                                                 | 4.4                               |
| 98–99.....         | 0.180559                                                | 4,619                             | 834                                             | 4,202                                                 | 19,543                                                 | 4.2                               |
| 99–100.....        | 0.190306                                                | 3,785                             | 720                                             | 3,425                                                 | 15,341                                                 | 4.1                               |
| 100 and older..... | 1.000000                                                | 3,064                             | 3,064                                           | 11,917                                                | 11,917                                                 | 3.9                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 8. Life table for American Indian and Alaska Native, non-Hispanic males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table08.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table08.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.010529                                                | 100,000                           | 1,053                                           | 99,113                                                | 6,451,363                                              | 64.5                              |
| 1-2.....    | 0.000901                                                | 98,947                            | 89                                              | 98,903                                                | 6,352,250                                              | 64.2                              |
| 2-3.....    | 0.000937                                                | 98,858                            | 93                                              | 98,812                                                | 6,253,347                                              | 63.3                              |
| 3-4.....    | 0.000570                                                | 98,765                            | 56                                              | 98,737                                                | 6,154,536                                              | 62.3                              |
| 4-5.....    | 0.000313                                                | 98,709                            | 31                                              | 98,694                                                | 6,055,798                                              | 61.4                              |
| 5-6.....    | 0.000435                                                | 98,678                            | 43                                              | 98,657                                                | 5,957,105                                              | 60.4                              |
| 6-7.....    | 0.000403                                                | 98,635                            | 40                                              | 98,615                                                | 5,858,448                                              | 59.4                              |
| 7-8.....    | 0.000371                                                | 98,595                            | 37                                              | 98,577                                                | 5,759,833                                              | 58.4                              |
| 8-9.....    | 0.000327                                                | 98,559                            | 32                                              | 98,543                                                | 5,661,256                                              | 57.4                              |
| 9-10.....   | 0.000278                                                | 98,527                            | 27                                              | 98,513                                                | 5,562,713                                              | 56.5                              |
| 10-11.....  | 0.000244                                                | 98,499                            | 24                                              | 98,487                                                | 5,464,200                                              | 55.5                              |
| 11-12.....  | 0.000262                                                | 98,475                            | 26                                              | 98,462                                                | 5,365,713                                              | 54.5                              |
| 12-13.....  | 0.000372                                                | 98,449                            | 37                                              | 98,431                                                | 5,267,251                                              | 53.5                              |
| 13-14.....  | 0.000596                                                | 98,413                            | 59                                              | 98,383                                                | 5,168,820                                              | 52.5                              |
| 14-15.....  | 0.000907                                                | 98,354                            | 89                                              | 98,309                                                | 5,070,437                                              | 51.6                              |
| 15-16.....  | 0.001267                                                | 98,265                            | 125                                             | 98,203                                                | 4,972,127                                              | 50.6                              |
| 16-17.....  | 0.001631                                                | 98,140                            | 160                                             | 98,060                                                | 4,873,925                                              | 49.7                              |
| 17-18.....  | 0.001970                                                | 97,980                            | 193                                             | 97,884                                                | 4,775,865                                              | 48.7                              |
| 18-19.....  | 0.002257                                                | 97,787                            | 221                                             | 97,677                                                | 4,677,981                                              | 47.8                              |
| 19-20.....  | 0.002508                                                | 97,566                            | 245                                             | 97,444                                                | 4,580,304                                              | 46.9                              |
| 20-21.....  | 0.002750                                                | 97,322                            | 268                                             | 97,188                                                | 4,482,860                                              | 46.1                              |
| 21-22.....  | 0.003025                                                | 97,054                            | 294                                             | 96,907                                                | 4,385,672                                              | 45.2                              |
| 22-23.....  | 0.003361                                                | 96,761                            | 325                                             | 96,598                                                | 4,288,765                                              | 44.3                              |
| 23-24.....  | 0.003789                                                | 96,435                            | 365                                             | 96,253                                                | 4,192,167                                              | 43.5                              |
| 24-25.....  | 0.004292                                                | 96,070                            | 412                                             | 95,864                                                | 4,095,914                                              | 42.6                              |
| 25-26.....  | 0.004843                                                | 95,658                            | 463                                             | 95,426                                                | 4,000,050                                              | 41.8                              |
| 26-27.....  | 0.005389                                                | 95,194                            | 513                                             | 94,938                                                | 3,904,624                                              | 41.0                              |
| 27-28.....  | 0.005883                                                | 94,681                            | 557                                             | 94,403                                                | 3,809,686                                              | 40.2                              |
| 28-29.....  | 0.006272                                                | 94,124                            | 590                                             | 93,829                                                | 3,715,283                                              | 39.5                              |
| 29-30.....  | 0.006577                                                | 93,534                            | 615                                             | 93,226                                                | 3,621,454                                              | 38.7                              |
| 30-31.....  | 0.006829                                                | 92,919                            | 634                                             | 92,602                                                | 3,528,228                                              | 38.0                              |
| 31-32.....  | 0.007101                                                | 92,284                            | 655                                             | 91,957                                                | 3,435,626                                              | 37.2                              |
| 32-33.....  | 0.007452                                                | 91,629                            | 683                                             | 91,288                                                | 3,343,669                                              | 36.5                              |
| 33-34.....  | 0.007941                                                | 90,946                            | 722                                             | 90,585                                                | 3,252,382                                              | 35.8                              |
| 34-35.....  | 0.008554                                                | 90,224                            | 772                                             | 89,838                                                | 3,161,797                                              | 35.0                              |
| 35-36.....  | 0.009292                                                | 89,452                            | 831                                             | 89,037                                                | 3,071,959                                              | 34.3                              |
| 36-37.....  | 0.010027                                                | 88,621                            | 889                                             | 88,177                                                | 2,982,922                                              | 33.7                              |
| 37-38.....  | 0.010601                                                | 87,732                            | 930                                             | 87,267                                                | 2,894,745                                              | 33.0                              |
| 38-39.....  | 0.010880                                                | 86,802                            | 944                                             | 86,330                                                | 2,807,478                                              | 32.3                              |
| 39-40.....  | 0.010938                                                | 85,858                            | 939                                             | 85,388                                                | 2,721,148                                              | 31.7                              |
| 40-41.....  | 0.010882                                                | 84,919                            | 924                                             | 84,457                                                | 2,635,760                                              | 31.0                              |
| 41-42.....  | 0.010936                                                | 83,995                            | 919                                             | 83,535                                                | 2,551,303                                              | 30.4                              |
| 42-43.....  | 0.011255                                                | 83,076                            | 935                                             | 82,609                                                | 2,467,767                                              | 29.7                              |
| 43-44.....  | 0.011978                                                | 82,141                            | 984                                             | 81,649                                                | 2,385,159                                              | 29.0                              |
| 44-45.....  | 0.013020                                                | 81,157                            | 1,057                                           | 80,629                                                | 2,303,510                                              | 28.4                              |
| 45-46.....  | 0.014273                                                | 80,101                            | 1,143                                           | 79,529                                                | 2,222,881                                              | 27.8                              |
| 46-47.....  | 0.015455                                                | 78,957                            | 1,220                                           | 78,347                                                | 2,143,352                                              | 27.1                              |
| 47-48.....  | 0.016329                                                | 77,737                            | 1,269                                           | 77,102                                                | 2,065,005                                              | 26.6                              |
| 48-49.....  | 0.016690                                                | 76,468                            | 1,276                                           | 75,830                                                | 1,987,902                                              | 26.0                              |
| 49-50.....  | 0.016694                                                | 75,191                            | 1,255                                           | 74,564                                                | 1,912,073                                              | 25.4                              |
| 50-51.....  | 0.016557                                                | 73,936                            | 1,224                                           | 73,324                                                | 1,837,509                                              | 24.9                              |
| 51-52.....  | 0.016606                                                | 72,712                            | 1,207                                           | 72,108                                                | 1,764,185                                              | 24.3                              |
| 52-53.....  | 0.017015                                                | 71,505                            | 1,217                                           | 70,896                                                | 1,692,077                                              | 23.7                              |
| 53-54.....  | 0.017936                                                | 70,288                            | 1,261                                           | 69,658                                                | 1,621,180                                              | 23.1                              |
| 54-55.....  | 0.019224                                                | 69,027                            | 1,327                                           | 68,364                                                | 1,551,523                                              | 22.5                              |
| 55-56.....  | 0.020588                                                | 67,700                            | 1,394                                           | 67,003                                                | 1,483,159                                              | 21.9                              |
| 56-57.....  | 0.021825                                                | 66,306                            | 1,447                                           | 65,583                                                | 1,416,156                                              | 21.4                              |
| 57-58.....  | 0.022980                                                | 64,859                            | 1,490                                           | 64,114                                                | 1,350,573                                              | 20.8                              |
| 58-59.....  | 0.023980                                                | 63,369                            | 1,520                                           | 62,609                                                | 1,286,459                                              | 20.3                              |
| 59-60.....  | 0.024849                                                | 61,849                            | 1,537                                           | 61,081                                                | 1,223,850                                              | 19.8                              |

**Table 8. Life table for American Indian and Alaska Native, non-Hispanic males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table08.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table08.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.025749                                                | 60,312                            | 1,553                                           | 59,536                                                | 1,162,769                                              | 19.3                              |
| 61–62.....         | 0.026661                                                | 58,759                            | 1,567                                           | 57,976                                                | 1,103,233                                              | 18.8                              |
| 62–63.....         | 0.027419                                                | 57,193                            | 1,568                                           | 56,409                                                | 1,045,257                                              | 18.3                              |
| 63–64.....         | 0.027995                                                | 55,625                            | 1,557                                           | 54,846                                                | 988,848                                                | 17.8                              |
| 64–65.....         | 0.028476                                                | 54,067                            | 1,540                                           | 53,298                                                | 934,002                                                | 17.3                              |
| 65–66.....         | 0.028843                                                | 52,528                            | 1,515                                           | 51,770                                                | 880,705                                                | 16.8                              |
| 66–67.....         | 0.029330                                                | 51,013                            | 1,496                                           | 50,265                                                | 828,935                                                | 16.2                              |
| 67–68.....         | 0.030290                                                | 49,516                            | 1,500                                           | 48,767                                                | 778,670                                                | 15.7                              |
| 68–69.....         | 0.031963                                                | 48,017                            | 1,535                                           | 47,249                                                | 729,904                                                | 15.2                              |
| 69–70.....         | 0.034213                                                | 46,482                            | 1,590                                           | 45,687                                                | 682,654                                                | 14.7                              |
| 70–71.....         | 0.036913                                                | 44,892                            | 1,657                                           | 44,063                                                | 636,967                                                | 14.2                              |
| 71–72.....         | 0.039633                                                | 43,235                            | 1,714                                           | 42,378                                                | 592,904                                                | 13.7                              |
| 72–73.....         | 0.041944                                                | 41,521                            | 1,742                                           | 40,650                                                | 550,527                                                | 13.3                              |
| 73–74.....         | 0.043449                                                | 39,780                            | 1,728                                           | 38,915                                                | 509,876                                                | 12.8                              |
| 74–75.....         | 0.044306                                                | 38,051                            | 1,686                                           | 37,208                                                | 470,961                                                | 12.4                              |
| 75–76.....         | 0.044843                                                | 36,365                            | 1,631                                           | 35,550                                                | 433,753                                                | 11.9                              |
| 76–77.....         | 0.045717                                                | 34,735                            | 1,588                                           | 33,941                                                | 398,203                                                | 11.5                              |
| 77–78.....         | 0.047407                                                | 33,147                            | 1,571                                           | 32,361                                                | 364,262                                                | 11.0                              |
| 78–79.....         | 0.050569                                                | 31,575                            | 1,597                                           | 30,777                                                | 331,902                                                | 10.5                              |
| 79–80.....         | 0.055171                                                | 29,978                            | 1,654                                           | 29,151                                                | 301,125                                                | 10.0                              |
| 80–81.....         | 0.060961                                                | 28,324                            | 1,727                                           | 27,461                                                | 271,973                                                | 9.6                               |
| 81–82.....         | 0.066387                                                | 26,598                            | 1,766                                           | 25,715                                                | 244,512                                                | 9.2                               |
| 82–83.....         | 0.071277                                                | 24,832                            | 1,770                                           | 23,947                                                | 218,797                                                | 8.8                               |
| 83–84.....         | 0.075230                                                | 23,062                            | 1,735                                           | 22,195                                                | 194,850                                                | 8.4                               |
| 84–85.....         | 0.078712                                                | 21,327                            | 1,679                                           | 20,488                                                | 172,655                                                | 8.1                               |
| 85–86.....         | 0.082938                                                | 19,648                            | 1,630                                           | 18,834                                                | 152,168                                                | 7.7                               |
| 86–87.....         | 0.086982                                                | 18,019                            | 1,567                                           | 17,235                                                | 133,334                                                | 7.4                               |
| 87–88.....         | 0.093196                                                | 16,452                            | 1,533                                           | 15,685                                                | 116,099                                                | 7.1                               |
| 88–89.....         | 0.099735                                                | 14,918                            | 1,488                                           | 14,174                                                | 100,414                                                | 6.7                               |
| 89–90.....         | 0.106595                                                | 13,430                            | 1,432                                           | 12,715                                                | 86,239                                                 | 6.4                               |
| 90–91.....         | 0.113768                                                | 11,999                            | 1,365                                           | 11,316                                                | 73,525                                                 | 6.1                               |
| 91–92.....         | 0.121239                                                | 10,634                            | 1,289                                           | 9,989                                                 | 62,209                                                 | 5.9                               |
| 92–93.....         | 0.128990                                                | 9,345                             | 1,205                                           | 8,742                                                 | 52,219                                                 | 5.6                               |
| 93–94.....         | 0.136996                                                | 8,139                             | 1,115                                           | 7,582                                                 | 43,478                                                 | 5.3                               |
| 94–95.....         | 0.145225                                                | 7,024                             | 1,020                                           | 6,514                                                 | 35,896                                                 | 5.1                               |
| 95–96.....         | 0.153642                                                | 6,004                             | 922                                             | 5,543                                                 | 29,382                                                 | 4.9                               |
| 96–97.....         | 0.162204                                                | 5,082                             | 824                                             | 4,669                                                 | 23,839                                                 | 4.7                               |
| 97–98.....         | 0.170863                                                | 4,257                             | 727                                             | 3,894                                                 | 19,169                                                 | 4.5                               |
| 98–99.....         | 0.179565                                                | 3,530                             | 634                                             | 3,213                                                 | 15,276                                                 | 4.3                               |
| 99–100.....        | 0.188256                                                | 2,896                             | 545                                             | 2,623                                                 | 12,063                                                 | 4.2                               |
| 100 and older..... | 1.000000                                                | 2,351                             | 2,351                                           | 9,439                                                 | 9,439                                                  | 4.0                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 9. Life table for American Indian and Alaska Native, non-Hispanic females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table09.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table09.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.007499                                                | 100,000                           | 750                                             | 99,317                                                | 7,129,308                                              | 71.3                              |
| 1-2.....    | 0.001489                                                | 99,250                            | 148                                             | 99,176                                                | 7,029,991                                              | 70.8                              |
| 2-3.....    | 0.000582                                                | 99,102                            | 58                                              | 99,073                                                | 6,930,815                                              | 69.9                              |
| 3-4.....    | 0.000318                                                | 99,045                            | 32                                              | 99,029                                                | 6,831,741                                              | 69.0                              |
| 4-5.....    | 0.000307                                                | 99,013                            | 30                                              | 98,998                                                | 6,732,713                                              | 68.0                              |
| 5-6.....    | 0.000268                                                | 98,983                            | 27                                              | 98,969                                                | 6,633,715                                              | 67.0                              |
| 6-7.....    | 0.000266                                                | 98,956                            | 26                                              | 98,943                                                | 6,534,745                                              | 66.0                              |
| 7-8.....    | 0.000265                                                | 98,930                            | 26                                              | 98,917                                                | 6,435,802                                              | 65.1                              |
| 8-9.....    | 0.000251                                                | 98,903                            | 25                                              | 98,891                                                | 6,336,886                                              | 64.1                              |
| 9-10.....   | 0.000225                                                | 98,879                            | 22                                              | 98,868                                                | 6,237,995                                              | 63.1                              |
| 10-11.....  | 0.000205                                                | 98,856                            | 20                                              | 98,846                                                | 6,139,127                                              | 62.1                              |
| 11-12.....  | 0.000224                                                | 98,836                            | 22                                              | 98,825                                                | 6,040,281                                              | 61.1                              |
| 12-13.....  | 0.000316                                                | 98,814                            | 31                                              | 98,798                                                | 5,941,456                                              | 60.1                              |
| 13-14.....  | 0.000501                                                | 98,783                            | 50                                              | 98,758                                                | 5,842,657                                              | 59.1                              |
| 14-15.....  | 0.000748                                                | 98,733                            | 74                                              | 98,696                                                | 5,743,899                                              | 58.2                              |
| 15-16.....  | 0.001040                                                | 98,659                            | 103                                             | 98,608                                                | 5,645,203                                              | 57.2                              |
| 16-17.....  | 0.001311                                                | 98,557                            | 129                                             | 98,492                                                | 5,546,595                                              | 56.3                              |
| 17-18.....  | 0.001489                                                | 98,428                            | 147                                             | 98,354                                                | 5,448,103                                              | 55.4                              |
| 18-19.....  | 0.001534                                                | 98,281                            | 151                                             | 98,206                                                | 5,349,748                                              | 54.4                              |
| 19-20.....  | 0.001493                                                | 98,130                            | 146                                             | 98,057                                                | 5,251,543                                              | 53.5                              |
| 20-21.....  | 0.001437                                                | 97,984                            | 141                                             | 97,913                                                | 5,153,485                                              | 52.6                              |
| 21-22.....  | 0.001433                                                | 97,843                            | 140                                             | 97,773                                                | 5,055,572                                              | 51.7                              |
| 22-23.....  | 0.001495                                                | 97,703                            | 146                                             | 97,630                                                | 4,957,799                                              | 50.7                              |
| 23-24.....  | 0.001651                                                | 97,557                            | 161                                             | 97,476                                                | 4,860,169                                              | 49.8                              |
| 24-25.....  | 0.001890                                                | 97,396                            | 184                                             | 97,304                                                | 4,762,693                                              | 48.9                              |
| 25-26.....  | 0.002141                                                | 97,212                            | 208                                             | 97,108                                                | 4,665,389                                              | 48.0                              |
| 26-27.....  | 0.002404                                                | 97,003                            | 233                                             | 96,887                                                | 4,568,282                                              | 47.1                              |
| 27-28.....  | 0.002748                                                | 96,770                            | 266                                             | 96,637                                                | 4,471,395                                              | 46.2                              |
| 28-29.....  | 0.003172                                                | 96,504                            | 306                                             | 96,351                                                | 4,374,758                                              | 45.3                              |
| 29-30.....  | 0.003630                                                | 96,198                            | 349                                             | 96,024                                                | 4,278,406                                              | 44.5                              |
| 30-31.....  | 0.004098                                                | 95,849                            | 393                                             | 95,653                                                | 4,182,383                                              | 43.6                              |
| 31-32.....  | 0.004525                                                | 95,456                            | 432                                             | 95,240                                                | 4,086,730                                              | 42.8                              |
| 32-33.....  | 0.004877                                                | 95,024                            | 463                                             | 94,793                                                | 3,991,490                                              | 42.0                              |
| 33-34.....  | 0.005141                                                | 94,561                            | 486                                             | 94,318                                                | 3,896,697                                              | 41.2                              |
| 34-35.....  | 0.005347                                                | 94,075                            | 503                                             | 93,823                                                | 3,802,380                                              | 40.4                              |
| 35-36.....  | 0.005574                                                | 93,572                            | 522                                             | 93,311                                                | 3,708,557                                              | 39.6                              |
| 36-37.....  | 0.005823                                                | 93,050                            | 542                                             | 92,779                                                | 3,615,246                                              | 38.9                              |
| 37-38.....  | 0.006015                                                | 92,508                            | 556                                             | 92,230                                                | 3,522,466                                              | 38.1                              |
| 38-39.....  | 0.006121                                                | 91,952                            | 563                                             | 91,670                                                | 3,430,236                                              | 37.3                              |
| 39-40.....  | 0.006175                                                | 91,389                            | 564                                             | 91,107                                                | 3,338,566                                              | 36.5                              |
| 40-41.....  | 0.006179                                                | 90,825                            | 561                                             | 90,544                                                | 3,247,459                                              | 35.8                              |
| 41-42.....  | 0.006241                                                | 90,263                            | 563                                             | 89,982                                                | 3,156,915                                              | 35.0                              |
| 42-43.....  | 0.006496                                                | 89,700                            | 583                                             | 89,409                                                | 3,066,933                                              | 34.2                              |
| 43-44.....  | 0.007032                                                | 89,117                            | 627                                             | 88,804                                                | 2,977,525                                              | 33.4                              |
| 44-45.....  | 0.007791                                                | 88,491                            | 689                                             | 88,146                                                | 2,888,721                                              | 32.6                              |
| 45-46.....  | 0.008692                                                | 87,801                            | 763                                             | 87,420                                                | 2,800,575                                              | 31.9                              |
| 46-47.....  | 0.009566                                                | 87,038                            | 833                                             | 86,622                                                | 2,713,155                                              | 31.2                              |
| 47-48.....  | 0.010289                                                | 86,206                            | 887                                             | 85,762                                                | 2,626,533                                              | 30.5                              |
| 48-49.....  | 0.010739                                                | 85,319                            | 916                                             | 84,861                                                | 2,540,771                                              | 29.8                              |
| 49-50.....  | 0.010990                                                | 84,402                            | 928                                             | 83,939                                                | 2,455,910                                              | 29.1                              |
| 50-51.....  | 0.011172                                                | 83,475                            | 933                                             | 83,009                                                | 2,371,972                                              | 28.4                              |
| 51-52.....  | 0.011443                                                | 82,542                            | 945                                             | 82,070                                                | 2,288,963                                              | 27.7                              |
| 52-53.....  | 0.011861                                                | 81,598                            | 968                                             | 81,114                                                | 2,206,893                                              | 27.0                              |
| 53-54.....  | 0.012489                                                | 80,630                            | 1,007                                           | 80,126                                                | 2,125,779                                              | 26.4                              |
| 54-55.....  | 0.013258                                                | 79,623                            | 1,056                                           | 79,095                                                | 2,045,653                                              | 25.7                              |
| 55-56.....  | 0.014037                                                | 78,567                            | 1,103                                           | 78,016                                                | 1,966,558                                              | 25.0                              |
| 56-57.....  | 0.014748                                                | 77,464                            | 1,142                                           | 76,893                                                | 1,888,542                                              | 24.4                              |
| 57-58.....  | 0.015419                                                | 76,322                            | 1,177                                           | 75,734                                                | 1,811,649                                              | 23.7                              |
| 58-59.....  | 0.016027                                                | 75,145                            | 1,204                                           | 74,543                                                | 1,735,915                                              | 23.1                              |
| 59-60.....  | 0.016582                                                | 73,941                            | 1,226                                           | 73,328                                                | 1,661,372                                              | 22.5                              |

**Table 9. Life table for American Indian and Alaska Native, non-Hispanic females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table09.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table09.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.017158                                                | 72,715                            | 1,248                                           | 72,091                                                | 1,588,045                                              | 21.8                              |
| 61–62.....         | 0.017737                                                | 71,467                            | 1,268                                           | 70,833                                                | 1,515,954                                              | 21.2                              |
| 62–63.....         | 0.018239                                                | 70,199                            | 1,280                                           | 69,559                                                | 1,445,120                                              | 20.6                              |
| 63–64.....         | 0.018657                                                | 68,919                            | 1,286                                           | 68,276                                                | 1,375,561                                              | 20.0                              |
| 64–65.....         | 0.019049                                                | 67,633                            | 1,288                                           | 66,989                                                | 1,307,285                                              | 19.3                              |
| 65–66.....         | 0.019411                                                | 66,345                            | 1,288                                           | 65,701                                                | 1,240,296                                              | 18.7                              |
| 66–67.....         | 0.019885                                                | 65,057                            | 1,294                                           | 64,410                                                | 1,174,595                                              | 18.1                              |
| 67–68.....         | 0.020681                                                | 63,763                            | 1,319                                           | 63,104                                                | 1,110,184                                              | 17.4                              |
| 68–69.....         | 0.021949                                                | 62,445                            | 1,371                                           | 61,759                                                | 1,047,080                                              | 16.8                              |
| 69–70.....         | 0.023630                                                | 61,074                            | 1,443                                           | 60,353                                                | 985,321                                                | 16.1                              |
| 70–71.....         | 0.025616                                                | 59,631                            | 1,527                                           | 58,867                                                | 924,968                                                | 15.5                              |
| 71–72.....         | 0.027723                                                | 58,104                            | 1,611                                           | 57,298                                                | 866,101                                                | 14.9                              |
| 72–73.....         | 0.029852                                                | 56,493                            | 1,686                                           | 55,650                                                | 808,803                                                | 14.3                              |
| 73–74.....         | 0.031867                                                | 54,806                            | 1,747                                           | 53,933                                                | 753,153                                                | 13.7                              |
| 74–75.....         | 0.033843                                                | 53,060                            | 1,796                                           | 52,162                                                | 699,220                                                | 13.2                              |
| 75–76.....         | 0.036034                                                | 51,264                            | 1,847                                           | 50,340                                                | 647,058                                                | 12.6                              |
| 76–77.....         | 0.038635                                                | 49,417                            | 1,909                                           | 48,462                                                | 596,718                                                | 12.1                              |
| 77–78.....         | 0.041581                                                | 47,508                            | 1,975                                           | 46,520                                                | 548,256                                                | 11.5                              |
| 78–79.....         | 0.044910                                                | 45,532                            | 2,045                                           | 44,510                                                | 501,736                                                | 11.0                              |
| 79–80.....         | 0.048637                                                | 43,487                            | 2,115                                           | 42,430                                                | 457,226                                                | 10.5                              |
| 80–81.....         | 0.052625                                                | 41,372                            | 2,177                                           | 40,284                                                | 414,796                                                | 10.0                              |
| 81–82.....         | 0.056866                                                | 39,195                            | 2,229                                           | 38,081                                                | 374,513                                                | 9.6                               |
| 82–83.....         | 0.061484                                                | 36,966                            | 2,273                                           | 35,830                                                | 336,432                                                | 9.1                               |
| 83–84.....         | 0.066373                                                | 34,693                            | 2,303                                           | 33,542                                                | 300,602                                                | 8.7                               |
| 84–85.....         | 0.070962                                                | 32,391                            | 2,299                                           | 31,241                                                | 267,060                                                | 8.2                               |
| 85–86.....         | 0.075592                                                | 30,092                            | 2,275                                           | 28,955                                                | 235,819                                                | 7.8                               |
| 86–87.....         | 0.080113                                                | 27,817                            | 2,229                                           | 26,703                                                | 206,864                                                | 7.4                               |
| 87–88.....         | 0.087030                                                | 25,589                            | 2,227                                           | 24,475                                                | 180,161                                                | 7.0                               |
| 88–89.....         | 0.094422                                                | 23,362                            | 2,206                                           | 22,259                                                | 155,686                                                | 6.7                               |
| 89–90.....         | 0.102300                                                | 21,156                            | 2,164                                           | 20,074                                                | 133,427                                                | 6.3                               |
| 90–91.....         | 0.110666                                                | 18,992                            | 2,102                                           | 17,941                                                | 113,353                                                | 6.0                               |
| 91–92.....         | 0.119517                                                | 16,890                            | 2,019                                           | 15,881                                                | 95,412                                                 | 5.6                               |
| 92–93.....         | 0.128844                                                | 14,871                            | 1,916                                           | 13,913                                                | 79,531                                                 | 5.3                               |
| 93–94.....         | 0.138631                                                | 12,955                            | 1,796                                           | 12,057                                                | 65,618                                                 | 5.1                               |
| 94–95.....         | 0.148850                                                | 11,159                            | 1,661                                           | 10,329                                                | 53,561                                                 | 4.8                               |
| 95–96.....         | 0.159467                                                | 9,498                             | 1,515                                           | 8,741                                                 | 43,232                                                 | 4.6                               |
| 96–97.....         | 0.170437                                                | 7,984                             | 1,361                                           | 7,303                                                 | 34,491                                                 | 4.3                               |
| 97–98.....         | 0.181705                                                | 6,623                             | 1,203                                           | 6,021                                                 | 27,188                                                 | 4.1                               |
| 98–99.....         | 0.193207                                                | 5,419                             | 1,047                                           | 4,896                                                 | 21,167                                                 | 3.9                               |
| 99–100.....        | 0.204871                                                | 4,372                             | 896                                             | 3,924                                                 | 16,271                                                 | 3.7                               |
| 100 and older..... | 1.000000                                                | 3,477                             | 3,477                                           | 12,346                                                | 12,346                                                 | 3.6                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 10. Life table for the Asian, non-Hispanic population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table10.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table10.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.003516                                                | 100,000                           | 352                                             | 99,687                                                | 8,442,863                                              | 84.4                              |
| 1-2.....    | 0.000223                                                | 99,648                            | 22                                              | 99,637                                                | 8,343,176                                              | 83.7                              |
| 2-3.....    | 0.000123                                                | 99,626                            | 12                                              | 99,620                                                | 8,243,538                                              | 82.7                              |
| 3-4.....    | 0.000118                                                | 99,614                            | 12                                              | 99,608                                                | 8,143,918                                              | 81.8                              |
| 4-5.....    | 0.000101                                                | 99,602                            | 10                                              | 99,597                                                | 8,044,310                                              | 80.8                              |
| 5-6.....    | 0.000084                                                | 99,592                            | 8                                               | 99,588                                                | 7,944,713                                              | 79.8                              |
| 6-7.....    | 0.000079                                                | 99,584                            | 8                                               | 99,580                                                | 7,845,125                                              | 78.8                              |
| 7-8.....    | 0.000074                                                | 99,576                            | 7                                               | 99,572                                                | 7,745,545                                              | 77.8                              |
| 8-9.....    | 0.000068                                                | 99,569                            | 7                                               | 99,565                                                | 7,645,973                                              | 76.8                              |
| 9-10.....   | 0.000061                                                | 99,562                            | 6                                               | 99,559                                                | 7,546,408                                              | 75.8                              |
| 10-11.....  | 0.000057                                                | 99,556                            | 6                                               | 99,553                                                | 7,446,849                                              | 74.8                              |
| 11-12.....  | 0.000061                                                | 99,550                            | 6                                               | 99,547                                                | 7,347,296                                              | 73.8                              |
| 12-13.....  | 0.000079                                                | 99,544                            | 8                                               | 99,540                                                | 7,247,749                                              | 72.8                              |
| 13-14.....  | 0.000116                                                | 99,536                            | 12                                              | 99,530                                                | 7,148,210                                              | 71.8                              |
| 14-15.....  | 0.000165                                                | 99,524                            | 16                                              | 99,516                                                | 7,048,679                                              | 70.8                              |
| 15-16.....  | 0.000219                                                | 99,508                            | 22                                              | 99,497                                                | 6,949,163                                              | 69.8                              |
| 16-17.....  | 0.000270                                                | 99,486                            | 27                                              | 99,473                                                | 6,849,666                                              | 68.9                              |
| 17-18.....  | 0.000320                                                | 99,459                            | 32                                              | 99,443                                                | 6,750,193                                              | 67.9                              |
| 18-19.....  | 0.000366                                                | 99,428                            | 36                                              | 99,409                                                | 6,650,750                                              | 66.9                              |
| 19-20.....  | 0.000407                                                | 99,391                            | 40                                              | 99,371                                                | 6,551,340                                              | 65.9                              |
| 20-21.....  | 0.000448                                                | 99,351                            | 45                                              | 99,328                                                | 6,451,969                                              | 64.9                              |
| 21-22.....  | 0.000486                                                | 99,306                            | 48                                              | 99,282                                                | 6,352,641                                              | 64.0                              |
| 22-23.....  | 0.000507                                                | 99,258                            | 50                                              | 99,233                                                | 6,253,359                                              | 63.0                              |
| 23-24.....  | 0.000510                                                | 99,208                            | 51                                              | 99,182                                                | 6,154,126                                              | 62.0                              |
| 24-25.....  | 0.000500                                                | 99,157                            | 50                                              | 99,132                                                | 6,054,944                                              | 61.1                              |
| 25-26.....  | 0.000485                                                | 99,107                            | 48                                              | 99,083                                                | 5,955,811                                              | 60.1                              |
| 26-27.....  | 0.000475                                                | 99,059                            | 47                                              | 99,036                                                | 5,856,728                                              | 59.1                              |
| 27-28.....  | 0.000480                                                | 99,012                            | 48                                              | 98,989                                                | 5,757,692                                              | 58.2                              |
| 28-29.....  | 0.000505                                                | 98,965                            | 50                                              | 98,940                                                | 5,658,703                                              | 57.2                              |
| 29-30.....  | 0.000542                                                | 98,915                            | 54                                              | 98,888                                                | 5,559,764                                              | 56.2                              |
| 30-31.....  | 0.000583                                                | 98,861                            | 58                                              | 98,833                                                | 5,460,875                                              | 55.2                              |
| 31-32.....  | 0.000616                                                | 98,804                            | 61                                              | 98,773                                                | 5,362,043                                              | 54.3                              |
| 32-33.....  | 0.000639                                                | 98,743                            | 63                                              | 98,711                                                | 5,263,270                                              | 53.3                              |
| 33-34.....  | 0.000646                                                | 98,680                            | 64                                              | 98,648                                                | 5,164,558                                              | 52.3                              |
| 34-35.....  | 0.000644                                                | 98,616                            | 63                                              | 98,584                                                | 5,065,910                                              | 51.4                              |
| 35-36.....  | 0.000641                                                | 98,553                            | 63                                              | 98,521                                                | 4,967,326                                              | 50.4                              |
| 36-37.....  | 0.000647                                                | 98,489                            | 64                                              | 98,458                                                | 4,868,805                                              | 49.4                              |
| 37-38.....  | 0.000665                                                | 98,426                            | 65                                              | 98,393                                                | 4,770,348                                              | 48.5                              |
| 38-39.....  | 0.000700                                                | 98,360                            | 69                                              | 98,326                                                | 4,671,955                                              | 47.5                              |
| 39-40.....  | 0.000750                                                | 98,291                            | 74                                              | 98,255                                                | 4,573,629                                              | 46.5                              |
| 40-41.....  | 0.000809                                                | 98,218                            | 79                                              | 98,178                                                | 4,475,374                                              | 45.6                              |
| 41-42.....  | 0.000875                                                | 98,138                            | 86                                              | 98,095                                                | 4,377,196                                              | 44.6                              |
| 42-43.....  | 0.000950                                                | 98,052                            | 93                                              | 98,006                                                | 4,279,101                                              | 43.6                              |
| 43-44.....  | 0.001034                                                | 97,959                            | 101                                             | 97,909                                                | 4,181,095                                              | 42.7                              |
| 44-45.....  | 0.001126                                                | 97,858                            | 110                                             | 97,803                                                | 4,083,186                                              | 41.7                              |
| 45-46.....  | 0.001225                                                | 97,748                            | 120                                             | 97,688                                                | 3,985,383                                              | 40.8                              |
| 46-47.....  | 0.001334                                                | 97,628                            | 130                                             | 97,563                                                | 3,887,696                                              | 39.8                              |
| 47-48.....  | 0.001460                                                | 97,498                            | 142                                             | 97,427                                                | 3,790,133                                              | 38.9                              |
| 48-49.....  | 0.001604                                                | 97,355                            | 156                                             | 97,277                                                | 3,692,706                                              | 37.9                              |
| 49-50.....  | 0.001762                                                | 97,199                            | 171                                             | 97,114                                                | 3,595,429                                              | 37.0                              |
| 50-51.....  | 0.001938                                                | 97,028                            | 188                                             | 96,934                                                | 3,498,315                                              | 36.1                              |
| 51-52.....  | 0.002118                                                | 96,840                            | 205                                             | 96,737                                                | 3,401,381                                              | 35.1                              |
| 52-53.....  | 0.002287                                                | 96,635                            | 221                                             | 96,524                                                | 3,304,644                                              | 34.2                              |
| 53-54.....  | 0.002439                                                | 96,414                            | 235                                             | 96,296                                                | 3,208,119                                              | 33.3                              |
| 54-55.....  | 0.002587                                                | 96,179                            | 249                                             | 96,054                                                | 3,111,823                                              | 32.4                              |
| 55-56.....  | 0.002749                                                | 95,930                            | 264                                             | 95,798                                                | 3,015,769                                              | 31.4                              |
| 56-57.....  | 0.002946                                                | 95,666                            | 282                                             | 95,525                                                | 2,919,971                                              | 30.5                              |
| 57-58.....  | 0.003186                                                | 95,384                            | 304                                             | 95,232                                                | 2,824,445                                              | 29.6                              |
| 58-59.....  | 0.003476                                                | 95,080                            | 331                                             | 94,915                                                | 2,729,213                                              | 28.7                              |
| 59-60.....  | 0.003811                                                | 94,750                            | 361                                             | 94,569                                                | 2,634,298                                              | 27.8                              |

**Table 10. Life table for the Asian, non-Hispanic population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table10.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table10.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.004174                                                | 94,389                            | 394                                             | 94,192                                                | 2,539,729                                              | 26.9                              |
| 61–62.....         | 0.004569                                                | 93,995                            | 429                                             | 93,780                                                | 2,445,537                                              | 26.0                              |
| 62–63.....         | 0.005017                                                | 93,565                            | 469                                             | 93,331                                                | 2,351,757                                              | 25.1                              |
| 63–64.....         | 0.005529                                                | 93,096                            | 515                                             | 92,839                                                | 2,258,426                                              | 24.3                              |
| 64–65.....         | 0.006102                                                | 92,581                            | 565                                             | 92,299                                                | 2,165,588                                              | 23.4                              |
| 65–66.....         | 0.006708                                                | 92,016                            | 617                                             | 91,708                                                | 2,073,289                                              | 22.5                              |
| 66–67.....         | 0.007355                                                | 91,399                            | 672                                             | 91,063                                                | 1,981,581                                              | 21.7                              |
| 67–68.....         | 0.008091                                                | 90,727                            | 734                                             | 90,360                                                | 1,890,518                                              | 20.8                              |
| 68–69.....         | 0.008941                                                | 89,993                            | 805                                             | 89,590                                                | 1,800,158                                              | 20.0                              |
| 69–70.....         | 0.009897                                                | 89,188                            | 883                                             | 88,747                                                | 1,710,568                                              | 19.2                              |
| 70–71.....         | 0.010973                                                | 88,305                            | 969                                             | 87,821                                                | 1,621,821                                              | 18.4                              |
| 71–72.....         | 0.012115                                                | 87,336                            | 1,058                                           | 86,807                                                | 1,534,000                                              | 17.6                              |
| 72–73.....         | 0.013270                                                | 86,278                            | 1,145                                           | 85,706                                                | 1,447,193                                              | 16.8                              |
| 73–74.....         | 0.014426                                                | 85,133                            | 1,228                                           | 84,519                                                | 1,361,487                                              | 16.0                              |
| 74–75.....         | 0.015662                                                | 83,905                            | 1,314                                           | 83,248                                                | 1,276,967                                              | 15.2                              |
| 75–76.....         | 0.017052                                                | 82,591                            | 1,408                                           | 81,887                                                | 1,193,719                                              | 14.5                              |
| 76–77.....         | 0.018867                                                | 81,183                            | 1,532                                           | 80,417                                                | 1,111,832                                              | 13.7                              |
| 77–78.....         | 0.021112                                                | 79,651                            | 1,682                                           | 78,810                                                | 1,031,415                                              | 12.9                              |
| 78–79.....         | 0.023971                                                | 77,970                            | 1,869                                           | 77,035                                                | 952,605                                                | 12.2                              |
| 79–80.....         | 0.026876                                                | 76,101                            | 2,045                                           | 75,078                                                | 875,570                                                | 11.5                              |
| 80–81.....         | 0.030890                                                | 74,055                            | 2,288                                           | 72,911                                                | 800,492                                                | 10.8                              |
| 81–82.....         | 0.035061                                                | 71,768                            | 2,516                                           | 70,510                                                | 727,580                                                | 10.1                              |
| 82–83.....         | 0.039811                                                | 69,251                            | 2,757                                           | 67,873                                                | 657,071                                                | 9.5                               |
| 83–84.....         | 0.045104                                                | 66,495                            | 2,999                                           | 64,995                                                | 589,198                                                | 8.9                               |
| 84–85.....         | 0.050886                                                | 63,495                            | 3,231                                           | 61,880                                                | 524,203                                                | 8.3                               |
| 85–86.....         | 0.058212                                                | 60,264                            | 3,508                                           | 58,510                                                | 462,323                                                | 7.7                               |
| 86–87.....         | 0.064540                                                | 56,756                            | 3,663                                           | 54,925                                                | 403,813                                                | 7.1                               |
| 87–88.....         | 0.074397                                                | 53,093                            | 3,950                                           | 51,118                                                | 348,888                                                | 6.6                               |
| 88–89.....         | 0.085521                                                | 49,143                            | 4,203                                           | 47,042                                                | 297,770                                                | 6.1                               |
| 89–90.....         | 0.098003                                                | 44,940                            | 4,404                                           | 42,738                                                | 250,728                                                | 5.6                               |
| 90–91.....         | 0.111921                                                | 40,536                            | 4,537                                           | 38,268                                                | 207,990                                                | 5.1                               |
| 91–92.....         | 0.127330                                                | 35,999                            | 4,584                                           | 33,707                                                | 169,722                                                | 4.7                               |
| 92–93.....         | 0.144262                                                | 31,415                            | 4,532                                           | 29,149                                                | 136,015                                                | 4.3                               |
| 93–94.....         | 0.162711                                                | 26,883                            | 4,374                                           | 24,696                                                | 106,865                                                | 4.0                               |
| 94–95.....         | 0.182633                                                | 22,509                            | 4,111                                           | 20,454                                                | 82,169                                                 | 3.7                               |
| 95–96.....         | 0.203939                                                | 18,398                            | 3,752                                           | 16,522                                                | 61,715                                                 | 3.4                               |
| 96–97.....         | 0.226495                                                | 14,646                            | 3,317                                           | 12,988                                                | 45,193                                                 | 3.1                               |
| 97–98.....         | 0.250120                                                | 11,329                            | 2,834                                           | 9,912                                                 | 32,205                                                 | 2.8                               |
| 98–99.....         | 0.274592                                                | 8,495                             | 2,333                                           | 7,329                                                 | 22,293                                                 | 2.6                               |
| 99–100.....        | 0.299657                                                | 6,163                             | 1,847                                           | 5,239                                                 | 14,964                                                 | 2.4                               |
| 100 and older..... | 1.000000                                                | 4,316                             | 4,316                                           | 9,725                                                 | 9,725                                                  | 2.3                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 11. Life table for Asian, non-Hispanic males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table11.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table11.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.003880                                                | 100,000                           | 388                                             | 99,662                                                | 8,231,789                                              | 82.3                              |
| 1-2.....    | 0.000288                                                | 99,612                            | 29                                              | 99,598                                                | 8,132,127                                              | 81.6                              |
| 2-3.....    | 0.000119                                                | 99,583                            | 12                                              | 99,577                                                | 8,032,529                                              | 80.7                              |
| 3-4.....    | 0.000105                                                | 99,571                            | 10                                              | 99,566                                                | 7,932,952                                              | 79.7                              |
| 4-5.....    | 0.000128                                                | 99,561                            | 13                                              | 99,555                                                | 7,833,385                                              | 78.7                              |
| 5-6.....    | 0.000082                                                | 99,548                            | 8                                               | 99,544                                                | 7,733,831                                              | 77.7                              |
| 6-7.....    | 0.000076                                                | 99,540                            | 8                                               | 99,536                                                | 7,634,287                                              | 76.7                              |
| 7-8.....    | 0.000072                                                | 99,533                            | 7                                               | 99,529                                                | 7,534,750                                              | 75.7                              |
| 8-9.....    | 0.000068                                                | 99,526                            | 7                                               | 99,522                                                | 7,435,221                                              | 74.7                              |
| 9-10.....   | 0.000066                                                | 99,519                            | 7                                               | 99,515                                                | 7,335,699                                              | 73.7                              |
| 10-11.....  | 0.000068                                                | 99,512                            | 7                                               | 99,509                                                | 7,236,184                                              | 72.7                              |
| 11-12.....  | 0.000077                                                | 99,505                            | 8                                               | 99,502                                                | 7,136,675                                              | 71.7                              |
| 12-13.....  | 0.000100                                                | 99,498                            | 10                                              | 99,493                                                | 7,037,173                                              | 70.7                              |
| 13-14.....  | 0.000140                                                | 99,488                            | 14                                              | 99,481                                                | 6,937,681                                              | 69.7                              |
| 14-15.....  | 0.000192                                                | 99,474                            | 19                                              | 99,464                                                | 6,838,200                                              | 68.7                              |
| 15-16.....  | 0.000249                                                | 99,455                            | 25                                              | 99,442                                                | 6,738,736                                              | 67.8                              |
| 16-17.....  | 0.000307                                                | 99,430                            | 30                                              | 99,415                                                | 6,639,293                                              | 66.8                              |
| 17-18.....  | 0.000360                                                | 99,399                            | 36                                              | 99,382                                                | 6,539,879                                              | 65.8                              |
| 18-19.....  | 0.000406                                                | 99,364                            | 40                                              | 99,343                                                | 6,440,497                                              | 64.8                              |
| 19-20.....  | 0.000444                                                | 99,323                            | 44                                              | 99,301                                                | 6,341,154                                              | 63.8                              |
| 20-21.....  | 0.000482                                                | 99,279                            | 48                                              | 99,255                                                | 6,241,853                                              | 62.9                              |
| 21-22.....  | 0.000520                                                | 99,231                            | 52                                              | 99,206                                                | 6,142,597                                              | 61.9                              |
| 22-23.....  | 0.000552                                                | 99,180                            | 55                                              | 99,152                                                | 6,043,392                                              | 60.9                              |
| 23-24.....  | 0.000577                                                | 99,125                            | 57                                              | 99,096                                                | 5,944,239                                              | 60.0                              |
| 24-25.....  | 0.000599                                                | 99,068                            | 59                                              | 99,038                                                | 5,845,143                                              | 59.0                              |
| 25-26.....  | 0.000618                                                | 99,008                            | 61                                              | 98,978                                                | 5,746,105                                              | 58.0                              |
| 26-27.....  | 0.000638                                                | 98,947                            | 63                                              | 98,916                                                | 5,647,127                                              | 57.1                              |
| 27-28.....  | 0.000664                                                | 98,884                            | 66                                              | 98,851                                                | 5,548,211                                              | 56.1                              |
| 28-29.....  | 0.000698                                                | 98,818                            | 69                                              | 98,784                                                | 5,449,360                                              | 55.1                              |
| 29-30.....  | 0.000735                                                | 98,749                            | 73                                              | 98,713                                                | 5,350,576                                              | 54.2                              |
| 30-31.....  | 0.000773                                                | 98,677                            | 76                                              | 98,639                                                | 5,251,863                                              | 53.2                              |
| 31-32.....  | 0.000807                                                | 98,601                            | 80                                              | 98,561                                                | 5,153,224                                              | 52.3                              |
| 32-33.....  | 0.000836                                                | 98,521                            | 82                                              | 98,480                                                | 5,054,663                                              | 51.3                              |
| 33-34.....  | 0.000858                                                | 98,439                            | 84                                              | 98,396                                                | 4,956,183                                              | 50.3                              |
| 34-35.....  | 0.000877                                                | 98,354                            | 86                                              | 98,311                                                | 4,857,787                                              | 49.4                              |
| 35-36.....  | 0.000900                                                | 98,268                            | 88                                              | 98,224                                                | 4,759,476                                              | 48.4                              |
| 36-37.....  | 0.000929                                                | 98,180                            | 91                                              | 98,134                                                | 4,661,252                                              | 47.5                              |
| 37-38.....  | 0.000959                                                | 98,088                            | 94                                              | 98,041                                                | 4,563,118                                              | 46.5                              |
| 38-39.....  | 0.000992                                                | 97,994                            | 97                                              | 97,946                                                | 4,465,077                                              | 45.6                              |
| 39-40.....  | 0.001029                                                | 97,897                            | 101                                             | 97,847                                                | 4,367,131                                              | 44.6                              |
| 40-41.....  | 0.001072                                                | 97,796                            | 105                                             | 97,744                                                | 4,269,285                                              | 43.7                              |
| 41-42.....  | 0.001129                                                | 97,691                            | 110                                             | 97,636                                                | 4,171,541                                              | 42.7                              |
| 42-43.....  | 0.001216                                                | 97,581                            | 119                                             | 97,522                                                | 4,073,904                                              | 41.7                              |
| 43-44.....  | 0.001339                                                | 97,463                            | 130                                             | 97,397                                                | 3,976,382                                              | 40.8                              |
| 44-45.....  | 0.001492                                                | 97,332                            | 145                                             | 97,259                                                | 3,878,985                                              | 39.9                              |
| 45-46.....  | 0.001661                                                | 97,187                            | 161                                             | 97,106                                                | 3,781,726                                              | 38.9                              |
| 46-47.....  | 0.001839                                                | 97,025                            | 178                                             | 96,936                                                | 3,684,620                                              | 38.0                              |
| 47-48.....  | 0.002027                                                | 96,847                            | 196                                             | 96,749                                                | 3,587,683                                              | 37.0                              |
| 48-49.....  | 0.002219                                                | 96,651                            | 214                                             | 96,543                                                | 3,490,935                                              | 36.1                              |
| 49-50.....  | 0.002417                                                | 96,436                            | 233                                             | 96,320                                                | 3,394,391                                              | 35.2                              |
| 50-51.....  | 0.002631                                                | 96,203                            | 253                                             | 96,076                                                | 3,298,072                                              | 34.3                              |
| 51-52.....  | 0.002858                                                | 95,950                            | 274                                             | 95,813                                                | 3,201,995                                              | 33.4                              |
| 52-53.....  | 0.003083                                                | 95,676                            | 295                                             | 95,528                                                | 3,106,183                                              | 32.5                              |
| 53-54.....  | 0.003306                                                | 95,381                            | 315                                             | 95,223                                                | 3,010,654                                              | 31.6                              |
| 54-55.....  | 0.003542                                                | 95,065                            | 337                                             | 94,897                                                | 2,915,431                                              | 30.7                              |
| 55-56.....  | 0.003799                                                | 94,729                            | 360                                             | 94,549                                                | 2,820,534                                              | 29.8                              |
| 56-57.....  | 0.004096                                                | 94,369                            | 386                                             | 94,176                                                | 2,725,986                                              | 28.9                              |
| 57-58.....  | 0.004450                                                | 93,982                            | 418                                             | 93,773                                                | 2,631,810                                              | 28.0                              |
| 58-59.....  | 0.004870                                                | 93,564                            | 456                                             | 93,336                                                | 2,538,037                                              | 27.1                              |
| 59-60.....  | 0.005345                                                | 93,108                            | 498                                             | 92,860                                                | 2,444,701                                              | 26.3                              |

**Table 11. Life table for Asian, non-Hispanic males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table11.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table11.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.005860                                                | 92,611                            | 543                                             | 92,339                                                | 2,351,841                                              | 25.4                              |
| 61–62.....         | 0.006410                                                | 92,068                            | 590                                             | 91,773                                                | 2,259,502                                              | 24.5                              |
| 62–63.....         | 0.006996                                                | 91,478                            | 640                                             | 91,158                                                | 2,167,729                                              | 23.7                              |
| 63–64.....         | 0.007620                                                | 90,838                            | 692                                             | 90,492                                                | 2,076,571                                              | 22.9                              |
| 64–65.....         | 0.008291                                                | 90,146                            | 747                                             | 89,772                                                | 1,986,079                                              | 22.0                              |
| 65–66.....         | 0.008983                                                | 89,398                            | 803                                             | 88,997                                                | 1,896,307                                              | 21.2                              |
| 66–67.....         | 0.009732                                                | 88,595                            | 862                                             | 88,164                                                | 1,807,310                                              | 20.4                              |
| 67–68.....         | 0.010614                                                | 87,733                            | 931                                             | 87,268                                                | 1,719,146                                              | 19.6                              |
| 68–69.....         | 0.011677                                                | 86,802                            | 1,014                                           | 86,295                                                | 1,631,878                                              | 18.8                              |
| 69–70.....         | 0.012904                                                | 85,788                            | 1,107                                           | 85,235                                                | 1,545,583                                              | 18.0                              |
| 70–71.....         | 0.014305                                                | 84,681                            | 1,211                                           | 84,076                                                | 1,460,348                                              | 17.2                              |
| 71–72.....         | 0.015776                                                | 83,470                            | 1,317                                           | 82,812                                                | 1,376,273                                              | 16.5                              |
| 72–73.....         | 0.017195                                                | 82,153                            | 1,413                                           | 81,447                                                | 1,293,461                                              | 15.7                              |
| 73–74.....         | 0.018494                                                | 80,740                            | 1,493                                           | 79,994                                                | 1,212,015                                              | 15.0                              |
| 74–75.....         | 0.019764                                                | 79,247                            | 1,566                                           | 78,464                                                | 1,132,021                                              | 14.3                              |
| 75–76.....         | 0.021090                                                | 77,681                            | 1,638                                           | 76,862                                                | 1,053,557                                              | 13.6                              |
| 76–77.....         | 0.022902                                                | 76,043                            | 1,742                                           | 75,172                                                | 976,695                                                | 12.8                              |
| 77–78.....         | 0.025340                                                | 74,301                            | 1,883                                           | 73,360                                                | 901,523                                                | 12.1                              |
| 78–79.....         | 0.028672                                                | 72,418                            | 2,076                                           | 71,380                                                | 828,163                                                | 11.4                              |
| 79–80.....         | 0.032171                                                | 70,342                            | 2,263                                           | 69,211                                                | 756,783                                                | 10.8                              |
| 80–81.....         | 0.036902                                                | 68,079                            | 2,512                                           | 66,823                                                | 687,572                                                | 10.1                              |
| 81–82.....         | 0.041666                                                | 65,567                            | 2,732                                           | 64,201                                                | 620,749                                                | 9.5                               |
| 82–83.....         | 0.047201                                                | 62,835                            | 2,966                                           | 61,352                                                | 556,549                                                | 8.9                               |
| 83–84.....         | 0.053004                                                | 59,869                            | 3,173                                           | 58,282                                                | 495,197                                                | 8.3                               |
| 84–85.....         | 0.059312                                                | 56,696                            | 3,363                                           | 55,014                                                | 436,914                                                | 7.7                               |
| 85–86.....         | 0.067339                                                | 53,333                            | 3,591                                           | 51,537                                                | 381,900                                                | 7.2                               |
| 86–87.....         | 0.074044                                                | 49,742                            | 3,683                                           | 47,900                                                | 330,363                                                | 6.6                               |
| 87–88.....         | 0.084918                                                | 46,058                            | 3,911                                           | 44,103                                                | 282,463                                                | 6.1                               |
| 88–89.....         | 0.097087                                                | 42,147                            | 4,092                                           | 40,101                                                | 238,360                                                | 5.7                               |
| 89–90.....         | 0.110618                                                | 38,055                            | 4,210                                           | 35,951                                                | 198,259                                                | 5.2                               |
| 90–91.....         | 0.125560                                                | 33,846                            | 4,250                                           | 31,721                                                | 162,308                                                | 4.8                               |
| 91–92.....         | 0.141931                                                | 29,596                            | 4,201                                           | 27,496                                                | 130,587                                                | 4.4                               |
| 92–93.....         | 0.159719                                                | 25,395                            | 4,056                                           | 23,367                                                | 103,091                                                | 4.1                               |
| 93–94.....         | 0.178872                                                | 21,339                            | 3,817                                           | 19,431                                                | 79,724                                                 | 3.7                               |
| 94–95.....         | 0.199297                                                | 17,522                            | 3,492                                           | 15,776                                                | 60,293                                                 | 3.4                               |
| 95–96.....         | 0.220856                                                | 14,030                            | 3,099                                           | 12,481                                                | 44,517                                                 | 3.2                               |
| 96–97.....         | 0.243370                                                | 10,932                            | 2,660                                           | 9,601                                                 | 32,036                                                 | 2.9                               |
| 97–98.....         | 0.266622                                                | 8,271                             | 2,205                                           | 7,168                                                 | 22,435                                                 | 2.7                               |
| 98–99.....         | 0.290365                                                | 6,066                             | 1,761                                           | 5,185                                                 | 15,266                                                 | 2.5                               |
| 99–100.....        | 0.314332                                                | 4,305                             | 1,353                                           | 3,628                                                 | 10,081                                                 | 2.3                               |
| 100 and older..... | 1.000000                                                | 2,951                             | 2,951                                           | 6,453                                                 | 6,453                                                  | 2.2                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 12. Life table for Asian, non-Hispanic females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table12.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table12.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.003131                                                | 100,000                           | 313                                             | 99,714                                                | 8,628,205                                              | 86.3                              |
| 1-2.....    | 0.000153                                                | 99,687                            | 15                                              | 99,679                                                | 8,528,491                                              | 85.6                              |
| 2-3.....    | 0.000127                                                | 99,672                            | 13                                              | 99,665                                                | 8,428,812                                              | 84.6                              |
| 3-4.....    | 0.000131                                                | 99,659                            | 13                                              | 99,652                                                | 8,329,147                                              | 83.6                              |
| 4-5.....    | 0.000073                                                | 99,646                            | 7                                               | 99,642                                                | 8,229,494                                              | 82.6                              |
| 5-6.....    | 0.000085                                                | 99,639                            | 9                                               | 99,634                                                | 8,129,852                                              | 81.6                              |
| 6-7.....    | 0.000078                                                | 99,630                            | 8                                               | 99,626                                                | 8,030,217                                              | 80.6                              |
| 7-8.....    | 0.000073                                                | 99,622                            | 7                                               | 99,619                                                | 7,930,591                                              | 79.6                              |
| 8-9.....    | 0.000068                                                | 99,615                            | 7                                               | 99,612                                                | 7,830,972                                              | 78.6                              |
| 9-10.....   | 0.000064                                                | 99,608                            | 6                                               | 99,605                                                | 7,731,361                                              | 77.6                              |
| 10-11.....  | 0.000062                                                | 99,602                            | 6                                               | 99,599                                                | 7,631,755                                              | 76.6                              |
| 11-12.....  | 0.000063                                                | 99,596                            | 6                                               | 99,593                                                | 7,532,157                                              | 75.6                              |
| 12-13.....  | 0.000069                                                | 99,590                            | 7                                               | 99,586                                                | 7,432,564                                              | 74.6                              |
| 13-14.....  | 0.000082                                                | 99,583                            | 8                                               | 99,579                                                | 7,332,978                                              | 73.6                              |
| 14-15.....  | 0.000100                                                | 99,574                            | 10                                              | 99,570                                                | 7,233,399                                              | 72.6                              |
| 15-16.....  | 0.000119                                                | 99,565                            | 12                                              | 99,559                                                | 7,133,830                                              | 71.7                              |
| 16-17.....  | 0.000138                                                | 99,553                            | 14                                              | 99,546                                                | 7,034,271                                              | 70.7                              |
| 17-18.....  | 0.000159                                                | 99,539                            | 16                                              | 99,531                                                | 6,934,725                                              | 69.7                              |
| 18-19.....  | 0.000181                                                | 99,523                            | 18                                              | 99,514                                                | 6,835,194                                              | 68.7                              |
| 19-20.....  | 0.000203                                                | 99,505                            | 20                                              | 99,495                                                | 6,735,680                                              | 67.7                              |
| 20-21.....  | 0.000227                                                | 99,485                            | 23                                              | 99,474                                                | 6,636,185                                              | 66.7                              |
| 21-22.....  | 0.000248                                                | 99,462                            | 25                                              | 99,450                                                | 6,536,711                                              | 65.7                              |
| 22-23.....  | 0.000259                                                | 99,438                            | 26                                              | 99,425                                                | 6,437,261                                              | 64.7                              |
| 23-24.....  | 0.000259                                                | 99,412                            | 26                                              | 99,399                                                | 6,337,836                                              | 63.8                              |
| 24-25.....  | 0.000252                                                | 99,386                            | 25                                              | 99,374                                                | 6,238,437                                              | 62.8                              |
| 25-26.....  | 0.000242                                                | 99,361                            | 24                                              | 99,349                                                | 6,139,063                                              | 61.8                              |
| 26-27.....  | 0.000237                                                | 99,337                            | 24                                              | 99,325                                                | 6,039,714                                              | 60.8                              |
| 27-28.....  | 0.000240                                                | 99,314                            | 24                                              | 99,302                                                | 5,940,389                                              | 59.8                              |
| 28-29.....  | 0.000256                                                | 99,290                            | 25                                              | 99,277                                                | 5,841,088                                              | 58.8                              |
| 29-30.....  | 0.000278                                                | 99,264                            | 28                                              | 99,250                                                | 5,741,811                                              | 57.8                              |
| 30-31.....  | 0.000303                                                | 99,237                            | 30                                              | 99,222                                                | 5,642,560                                              | 56.9                              |
| 31-32.....  | 0.000325                                                | 99,207                            | 32                                              | 99,190                                                | 5,543,339                                              | 55.9                              |
| 32-33.....  | 0.000342                                                | 99,174                            | 34                                              | 99,157                                                | 5,444,148                                              | 54.9                              |
| 33-34.....  | 0.000352                                                | 99,140                            | 35                                              | 99,123                                                | 5,344,991                                              | 53.9                              |
| 34-35.....  | 0.000358                                                | 99,106                            | 36                                              | 99,088                                                | 5,245,868                                              | 52.9                              |
| 35-36.....  | 0.000364                                                | 99,070                            | 36                                              | 99,052                                                | 5,146,780                                              | 52.0                              |
| 36-37.....  | 0.000376                                                | 99,034                            | 37                                              | 99,015                                                | 5,047,728                                              | 51.0                              |
| 37-38.....  | 0.000401                                                | 98,997                            | 40                                              | 98,977                                                | 4,948,712                                              | 50.0                              |
| 38-39.....  | 0.000445                                                | 98,957                            | 44                                              | 98,935                                                | 4,849,735                                              | 49.0                              |
| 39-40.....  | 0.000503                                                | 98,913                            | 50                                              | 98,888                                                | 4,750,800                                              | 48.0                              |
| 40-41.....  | 0.000572                                                | 98,863                            | 57                                              | 98,835                                                | 4,651,912                                              | 47.1                              |
| 41-42.....  | 0.000641                                                | 98,807                            | 63                                              | 98,775                                                | 4,553,077                                              | 46.1                              |
| 42-43.....  | 0.000705                                                | 98,743                            | 70                                              | 98,709                                                | 4,454,302                                              | 45.1                              |
| 43-44.....  | 0.000756                                                | 98,674                            | 75                                              | 98,637                                                | 4,355,593                                              | 44.1                              |
| 44-45.....  | 0.000799                                                | 98,599                            | 79                                              | 98,560                                                | 4,256,957                                              | 43.2                              |
| 45-46.....  | 0.000840                                                | 98,521                            | 83                                              | 98,479                                                | 4,158,397                                              | 42.2                              |
| 46-47.....  | 0.000892                                                | 98,438                            | 88                                              | 98,394                                                | 4,059,918                                              | 41.2                              |
| 47-48.....  | 0.000964                                                | 98,350                            | 95                                              | 98,303                                                | 3,961,524                                              | 40.3                              |
| 48-49.....  | 0.001065                                                | 98,255                            | 105                                             | 98,203                                                | 3,863,221                                              | 39.3                              |
| 49-50.....  | 0.001187                                                | 98,151                            | 116                                             | 98,092                                                | 3,765,018                                              | 38.4                              |
| 50-51.....  | 0.001325                                                | 98,034                            | 130                                             | 97,969                                                | 3,666,926                                              | 37.4                              |
| 51-52.....  | 0.001463                                                | 97,904                            | 143                                             | 97,832                                                | 3,568,957                                              | 36.5                              |
| 52-53.....  | 0.001583                                                | 97,761                            | 155                                             | 97,684                                                | 3,471,124                                              | 35.5                              |
| 53-54.....  | 0.001676                                                | 97,606                            | 164                                             | 97,524                                                | 3,373,441                                              | 34.6                              |
| 54-55.....  | 0.001756                                                | 97,443                            | 171                                             | 97,357                                                | 3,275,917                                              | 33.6                              |
| 55-56.....  | 0.001846                                                | 97,271                            | 180                                             | 97,182                                                | 3,178,560                                              | 32.7                              |
| 56-57.....  | 0.001966                                                | 97,092                            | 191                                             | 96,996                                                | 3,081,378                                              | 31.7                              |
| 57-58.....  | 0.002116                                                | 96,901                            | 205                                             | 96,798                                                | 2,984,382                                              | 30.8                              |
| 58-59.....  | 0.002305                                                | 96,696                            | 223                                             | 96,584                                                | 2,887,583                                              | 29.9                              |
| 59-60.....  | 0.002530                                                | 96,473                            | 244                                             | 96,351                                                | 2,790,999                                              | 28.9                              |

See footnotes at end of table.

**Table 12. Life table for Asian, non-Hispanic females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table12.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table12.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.002774                                                | 96,229                            | 267                                             | 96,096                                                | 2,694,648                                              | 28.0                              |
| 61–62.....         | 0.003050                                                | 95,962                            | 293                                             | 95,816                                                | 2,598,552                                              | 27.1                              |
| 62–63.....         | 0.003391                                                | 95,669                            | 324                                             | 95,507                                                | 2,502,736                                              | 26.2                              |
| 63–64.....         | 0.003814                                                | 95,345                            | 364                                             | 95,163                                                | 2,407,229                                              | 25.2                              |
| 64–65.....         | 0.004308                                                | 94,981                            | 409                                             | 94,777                                                | 2,312,066                                              | 24.3                              |
| 65–66.....         | 0.004841                                                | 94,572                            | 458                                             | 94,343                                                | 2,217,289                                              | 23.4                              |
| 66–67.....         | 0.005406                                                | 94,114                            | 509                                             | 93,860                                                | 2,122,946                                              | 22.6                              |
| 67–68.....         | 0.006030                                                | 93,606                            | 564                                             | 93,323                                                | 2,029,086                                              | 21.7                              |
| 68–69.....         | 0.006724                                                | 93,041                            | 626                                             | 92,728                                                | 1,935,763                                              | 20.8                              |
| 69–70.....         | 0.007490                                                | 92,415                            | 692                                             | 92,069                                                | 1,843,035                                              | 19.9                              |
| 70–71.....         | 0.008341                                                | 91,723                            | 765                                             | 91,341                                                | 1,750,965                                              | 19.1                              |
| 71–72.....         | 0.009258                                                | 90,958                            | 842                                             | 90,537                                                | 1,659,624                                              | 18.2                              |
| 72–73.....         | 0.010230                                                | 90,116                            | 922                                             | 89,655                                                | 1,569,087                                              | 17.4                              |
| 73–74.....         | 0.011280                                                | 89,194                            | 1,006                                           | 88,691                                                | 1,479,432                                              | 16.6                              |
| 74–75.....         | 0.012478                                                | 88,188                            | 1,100                                           | 87,638                                                | 1,390,741                                              | 15.8                              |
| 75–76.....         | 0.013898                                                | 87,088                            | 1,210                                           | 86,482                                                | 1,303,103                                              | 15.0                              |
| 76–77.....         | 0.015694                                                | 85,877                            | 1,348                                           | 85,203                                                | 1,216,621                                              | 14.2                              |
| 77–78.....         | 0.017792                                                | 84,529                            | 1,504                                           | 83,778                                                | 1,131,418                                              | 13.4                              |
| 78–79.....         | 0.020320                                                | 83,026                            | 1,687                                           | 82,182                                                | 1,047,640                                              | 12.6                              |
| 79–80.....         | 0.022837                                                | 81,338                            | 1,858                                           | 80,410                                                | 965,458                                                | 11.9                              |
| 80–81.....         | 0.026439                                                | 79,481                            | 2,101                                           | 78,430                                                | 885,048                                                | 11.1                              |
| 81–82.....         | 0.030369                                                | 77,380                            | 2,350                                           | 76,205                                                | 806,618                                                | 10.4                              |
| 82–83.....         | 0.034745                                                | 75,030                            | 2,607                                           | 73,726                                                | 730,414                                                | 9.7                               |
| 83–84.....         | 0.039916                                                | 72,423                            | 2,891                                           | 70,977                                                | 656,687                                                | 9.1                               |
| 84–85.....         | 0.045648                                                | 69,532                            | 3,174                                           | 67,945                                                | 585,710                                                | 8.4                               |
| 85–86.....         | 0.052909                                                | 66,358                            | 3,511                                           | 64,602                                                | 517,765                                                | 7.8                               |
| 86–87.....         | 0.059053                                                | 62,847                            | 3,711                                           | 60,991                                                | 453,163                                                | 7.2                               |
| 87–88.....         | 0.069040                                                | 59,136                            | 4,083                                           | 57,094                                                | 392,172                                                | 6.6                               |
| 88–89.....         | 0.080475                                                | 55,053                            | 4,430                                           | 52,838                                                | 335,078                                                | 6.1                               |
| 89–90.....         | 0.093490                                                | 50,622                            | 4,733                                           | 48,256                                                | 282,240                                                | 5.6                               |
| 90–91.....         | 0.108202                                                | 45,890                            | 4,965                                           | 43,407                                                | 233,984                                                | 5.1                               |
| 91–92.....         | 0.124703                                                | 40,924                            | 5,103                                           | 38,373                                                | 190,577                                                | 4.7                               |
| 92–93.....         | 0.143057                                                | 35,821                            | 5,124                                           | 33,259                                                | 152,204                                                | 4.2                               |
| 93–94.....         | 0.163280                                                | 30,697                            | 5,012                                           | 28,190                                                | 118,945                                                | 3.9                               |
| 94–95.....         | 0.185339                                                | 25,684                            | 4,760                                           | 23,304                                                | 90,755                                                 | 3.5                               |
| 95–96.....         | 0.209139                                                | 20,924                            | 4,376                                           | 18,736                                                | 67,450                                                 | 3.2                               |
| 96–97.....         | 0.234520                                                | 16,548                            | 3,881                                           | 14,608                                                | 48,714                                                 | 2.9                               |
| 97–98.....         | 0.261258                                                | 12,667                            | 3,309                                           | 11,012                                                | 34,107                                                 | 2.7                               |
| 98–99.....         | 0.289070                                                | 9,358                             | 2,705                                           | 8,005                                                 | 23,094                                                 | 2.5                               |
| 99–100.....        | 0.317622                                                | 6,653                             | 2,113                                           | 5,596                                                 | 15,089                                                 | 2.3                               |
| 100 and older..... | 1.000000                                                | 4,540                             | 4,540                                           | 9,493                                                 | 9,493                                                  | 2.1                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 13. Life table for the Black, non-Hispanic population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table13.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table13.xlsx).

| Age (years) | Probability of dying between ages $x$ and $x + 1$ | Number surviving to age $x$ | Number dying between ages $x$ and $x + 1$ | Person-years lived between ages $x$ and $x + 1$ | Total number of person-years lived above age $x$ | Expectation of life at age $x$ |
|-------------|---------------------------------------------------|-----------------------------|-------------------------------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------|
|             | $q_x$                                             | $l_x$                       | $d_x$                                     | $L_x$                                           | $T_x$                                            | $e_x$                          |
| 0-1         | 0.010876                                          | 100,000                     | 1,088                                     | 99,081                                          | 7,280,445                                        | 72.8                           |
| 1-2         | 0.000842                                          | 98,912                      | 83                                        | 98,871                                          | 7,181,364                                        | 72.6                           |
| 2-3         | 0.000529                                          | 98,829                      | 52                                        | 98,803                                          | 7,082,493                                        | 71.7                           |
| 3-4         | 0.000432                                          | 98,777                      | 43                                        | 98,756                                          | 6,983,690                                        | 70.7                           |
| 4-5         | 0.000346                                          | 98,734                      | 34                                        | 98,717                                          | 6,884,935                                        | 69.7                           |
| 5-6         | 0.000306                                          | 98,700                      | 30                                        | 98,685                                          | 6,786,218                                        | 68.8                           |
| 6-7         | 0.000279                                          | 98,670                      | 27                                        | 98,656                                          | 6,687,533                                        | 67.8                           |
| 7-8         | 0.000252                                          | 98,642                      | 25                                        | 98,630                                          | 6,588,877                                        | 66.8                           |
| 8-9         | 0.000218                                          | 98,617                      | 22                                        | 98,607                                          | 6,490,247                                        | 65.8                           |
| 9-10        | 0.000180                                          | 98,596                      | 18                                        | 98,587                                          | 6,391,640                                        | 64.8                           |
| 10-11       | 0.000152                                          | 98,578                      | 15                                        | 98,571                                          | 6,293,053                                        | 63.8                           |
| 11-12       | 0.000158                                          | 98,563                      | 16                                        | 98,555                                          | 6,194,482                                        | 62.8                           |
| 12-13       | 0.000227                                          | 98,548                      | 22                                        | 98,536                                          | 6,095,927                                        | 61.9                           |
| 13-14       | 0.000374                                          | 98,525                      | 37                                        | 98,507                                          | 5,997,390                                        | 60.9                           |
| 14-15       | 0.000580                                          | 98,488                      | 57                                        | 98,460                                          | 5,898,883                                        | 59.9                           |
| 15-16       | 0.000814                                          | 98,431                      | 80                                        | 98,391                                          | 5,800,424                                        | 58.9                           |
| 16-17       | 0.001041                                          | 98,351                      | 102                                       | 98,300                                          | 5,702,032                                        | 58.0                           |
| 17-18       | 0.001249                                          | 98,249                      | 123                                       | 98,187                                          | 5,603,732                                        | 57.0                           |
| 18-19       | 0.001417                                          | 98,126                      | 139                                       | 98,057                                          | 5,505,545                                        | 56.1                           |
| 19-20       | 0.001551                                          | 97,987                      | 152                                       | 97,911                                          | 5,407,488                                        | 55.2                           |
| 20-21       | 0.001679                                          | 97,835                      | 164                                       | 97,753                                          | 5,309,577                                        | 54.3                           |
| 21-22       | 0.001809                                          | 97,671                      | 177                                       | 97,583                                          | 5,211,824                                        | 53.4                           |
| 22-23       | 0.001920                                          | 97,494                      | 187                                       | 97,401                                          | 5,114,242                                        | 52.5                           |
| 23-24       | 0.002014                                          | 97,307                      | 196                                       | 97,209                                          | 5,016,841                                        | 51.6                           |
| 24-25       | 0.002097                                          | 97,111                      | 204                                       | 97,009                                          | 4,919,632                                        | 50.7                           |
| 25-26       | 0.002175                                          | 96,907                      | 211                                       | 96,802                                          | 4,822,623                                        | 49.8                           |
| 26-27       | 0.002256                                          | 96,697                      | 218                                       | 96,588                                          | 4,725,821                                        | 48.9                           |
| 27-28       | 0.002344                                          | 96,479                      | 226                                       | 96,366                                          | 4,629,233                                        | 48.0                           |
| 28-29       | 0.002439                                          | 96,252                      | 235                                       | 96,135                                          | 4,532,868                                        | 47.1                           |
| 29-30       | 0.002538                                          | 96,018                      | 244                                       | 95,896                                          | 4,436,733                                        | 46.2                           |
| 30-31       | 0.002635                                          | 95,774                      | 252                                       | 95,648                                          | 4,340,837                                        | 45.3                           |
| 31-32       | 0.002731                                          | 95,522                      | 261                                       | 95,391                                          | 4,245,189                                        | 44.4                           |
| 32-33       | 0.002835                                          | 95,261                      | 270                                       | 95,126                                          | 4,149,798                                        | 43.6                           |
| 33-34       | 0.002957                                          | 94,991                      | 281                                       | 94,850                                          | 4,054,672                                        | 42.7                           |
| 34-35       | 0.003103                                          | 94,710                      | 294                                       | 94,563                                          | 3,959,822                                        | 41.8                           |
| 35-36       | 0.003271                                          | 94,416                      | 309                                       | 94,262                                          | 3,865,259                                        | 40.9                           |
| 36-37       | 0.003455                                          | 94,107                      | 325                                       | 93,945                                          | 3,770,997                                        | 40.1                           |
| 37-38       | 0.003655                                          | 93,782                      | 343                                       | 93,611                                          | 3,677,053                                        | 39.2                           |
| 38-39       | 0.003855                                          | 93,439                      | 360                                       | 93,259                                          | 3,583,442                                        | 38.4                           |
| 39-40       | 0.004048                                          | 93,079                      | 377                                       | 92,891                                          | 3,490,183                                        | 37.5                           |
| 40-41       | 0.004254                                          | 92,702                      | 394                                       | 92,505                                          | 3,397,293                                        | 36.6                           |
| 41-42       | 0.004473                                          | 92,308                      | 413                                       | 92,101                                          | 3,304,788                                        | 35.8                           |
| 42-43       | 0.004679                                          | 91,895                      | 430                                       | 91,680                                          | 3,212,686                                        | 35.0                           |
| 43-44       | 0.004874                                          | 91,465                      | 446                                       | 91,242                                          | 3,121,006                                        | 34.1                           |
| 44-45       | 0.005076                                          | 91,019                      | 462                                       | 90,788                                          | 3,029,764                                        | 33.3                           |
| 45-46       | 0.005310                                          | 90,557                      | 481                                       | 90,317                                          | 2,938,976                                        | 32.5                           |
| 46-47       | 0.005589                                          | 90,076                      | 503                                       | 89,825                                          | 2,848,659                                        | 31.6                           |
| 47-48       | 0.005903                                          | 89,573                      | 529                                       | 89,309                                          | 2,758,834                                        | 30.8                           |
| 48-49       | 0.006242                                          | 89,044                      | 556                                       | 88,766                                          | 2,669,526                                        | 30.0                           |
| 49-50       | 0.006601                                          | 88,488                      | 584                                       | 88,196                                          | 2,580,760                                        | 29.2                           |
| 50-51       | 0.006972                                          | 87,904                      | 613                                       | 87,598                                          | 2,492,563                                        | 28.4                           |
| 51-52       | 0.007388                                          | 87,291                      | 645                                       | 86,969                                          | 2,404,965                                        | 27.6                           |
| 52-53       | 0.007898                                          | 86,647                      | 684                                       | 86,304                                          | 2,317,996                                        | 26.8                           |
| 53-54       | 0.008536                                          | 85,962                      | 734                                       | 85,595                                          | 2,231,692                                        | 26.0                           |
| 54-55       | 0.009289                                          | 85,228                      | 792                                       | 84,833                                          | 2,146,097                                        | 25.2                           |
| 55-56       | 0.010082                                          | 84,437                      | 851                                       | 84,011                                          | 2,061,264                                        | 24.4                           |
| 56-57       | 0.010904                                          | 83,585                      | 911                                       | 83,130                                          | 1,977,253                                        | 23.7                           |
| 57-58       | 0.011822                                          | 82,674                      | 977                                       | 82,185                                          | 1,894,123                                        | 22.9                           |
| 58-59       | 0.012842                                          | 81,697                      | 1,049                                     | 81,172                                          | 1,811,938                                        | 22.2                           |
| 59-60       | 0.013935                                          | 80,647                      | 1,124                                     | 80,086                                          | 1,730,766                                        | 21.5                           |

**Table 13. Life table for the Black, non-Hispanic population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table13.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table13.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.015063                                                | 79,524                            | 1,198                                           | 78,925                                                | 1,650,680                                              | 20.8                              |
| 61–62.....         | 0.016202                                                | 78,326                            | 1,269                                           | 77,691                                                | 1,571,755                                              | 20.1                              |
| 62–63.....         | 0.017370                                                | 77,057                            | 1,338                                           | 76,388                                                | 1,494,064                                              | 19.4                              |
| 63–64.....         | 0.018590                                                | 75,718                            | 1,408                                           | 75,014                                                | 1,417,677                                              | 18.7                              |
| 64–65.....         | 0.019887                                                | 74,311                            | 1,478                                           | 73,572                                                | 1,342,662                                              | 18.1                              |
| 65–66.....         | 0.021294                                                | 72,833                            | 1,551                                           | 72,057                                                | 1,269,090                                              | 17.4                              |
| 66–67.....         | 0.022804                                                | 71,282                            | 1,625                                           | 70,469                                                | 1,197,033                                              | 16.8                              |
| 67–68.....         | 0.024193                                                | 69,656                            | 1,685                                           | 68,814                                                | 1,126,564                                              | 16.2                              |
| 68–69.....         | 0.025682                                                | 67,971                            | 1,746                                           | 67,098                                                | 1,057,750                                              | 15.6                              |
| 69–70.....         | 0.027183                                                | 66,226                            | 1,800                                           | 65,326                                                | 990,651                                                | 15.0                              |
| 70–71.....         | 0.028742                                                | 64,425                            | 1,852                                           | 63,500                                                | 925,326                                                | 14.4                              |
| 71–72.....         | 0.030423                                                | 62,574                            | 1,904                                           | 61,622                                                | 861,826                                                | 13.8                              |
| 72–73.....         | 0.032408                                                | 60,670                            | 1,966                                           | 59,687                                                | 800,204                                                | 13.2                              |
| 73–74.....         | 0.034337                                                | 58,704                            | 2,016                                           | 57,696                                                | 740,517                                                | 12.6                              |
| 74–75.....         | 0.036623                                                | 56,688                            | 2,076                                           | 55,650                                                | 682,821                                                | 12.0                              |
| 75–76.....         | 0.039007                                                | 54,612                            | 2,130                                           | 53,547                                                | 627,171                                                | 11.5                              |
| 76–77.....         | 0.042729                                                | 52,482                            | 2,242                                           | 51,361                                                | 573,624                                                | 10.9                              |
| 77–78.....         | 0.045252                                                | 50,239                            | 2,273                                           | 49,103                                                | 522,264                                                | 10.4                              |
| 78–79.....         | 0.049866                                                | 47,966                            | 2,392                                           | 46,770                                                | 473,161                                                | 9.9                               |
| 79–80.....         | 0.053444                                                | 45,574                            | 2,436                                           | 44,356                                                | 426,391                                                | 9.4                               |
| 80–81.....         | 0.058708                                                | 43,138                            | 2,533                                           | 41,872                                                | 382,035                                                | 8.9                               |
| 81–82.....         | 0.062834                                                | 40,606                            | 2,551                                           | 39,330                                                | 340,163                                                | 8.4                               |
| 82–83.....         | 0.068233                                                | 38,054                            | 2,597                                           | 36,756                                                | 300,833                                                | 7.9                               |
| 83–84.....         | 0.076190                                                | 35,458                            | 2,702                                           | 34,107                                                | 264,077                                                | 7.4                               |
| 84–85.....         | 0.081752                                                | 32,756                            | 2,678                                           | 31,417                                                | 229,970                                                | 7.0                               |
| 85–86.....         | 0.089549                                                | 30,078                            | 2,693                                           | 28,732                                                | 198,553                                                | 6.6                               |
| 86–87.....         | 0.096613                                                | 27,385                            | 2,646                                           | 26,062                                                | 169,821                                                | 6.2                               |
| 87–88.....         | 0.106248                                                | 24,739                            | 2,628                                           | 23,425                                                | 143,759                                                | 5.8                               |
| 88–89.....         | 0.116646                                                | 22,111                            | 2,579                                           | 20,821                                                | 120,334                                                | 5.4                               |
| 89–90.....         | 0.127830                                                | 19,532                            | 2,497                                           | 18,283                                                | 99,513                                                 | 5.1                               |
| 90–91.....         | 0.139814                                                | 17,035                            | 2,382                                           | 15,844                                                | 81,230                                                 | 4.8                               |
| 91–92.....         | 0.152604                                                | 14,653                            | 2,236                                           | 13,535                                                | 65,386                                                 | 4.5                               |
| 92–93.....         | 0.166194                                                | 12,417                            | 2,064                                           | 11,385                                                | 51,851                                                 | 4.2                               |
| 93–94.....         | 0.180569                                                | 10,353                            | 1,869                                           | 9,419                                                 | 40,466                                                 | 3.9                               |
| 94–95.....         | 0.195701                                                | 8,484                             | 1,660                                           | 7,654                                                 | 31,047                                                 | 3.7                               |
| 95–96.....         | 0.211550                                                | 6,824                             | 1,444                                           | 6,102                                                 | 23,394                                                 | 3.4                               |
| 96–97.....         | 0.228061                                                | 5,380                             | 1,227                                           | 4,767                                                 | 17,292                                                 | 3.2                               |
| 97–98.....         | 0.245166                                                | 4,153                             | 1,018                                           | 3,644                                                 | 12,525                                                 | 3.0                               |
| 98–99.....         | 0.262785                                                | 3,135                             | 824                                             | 2,723                                                 | 8,881                                                  | 2.8                               |
| 99–100.....        | 0.280827                                                | 2,311                             | 649                                             | 1,987                                                 | 6,158                                                  | 2.7                               |
| 100 and older..... | 1.000000                                                | 1,662                             | 1,662                                           | 4,172                                                 | 4,172                                                  | 2.5                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 14. Life table for Black, non-Hispanic males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table14.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table14.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.011786                                                | 100,000                           | 1,179                                           | 99,001                                                | 6,909,898                                              | 69.1                              |
| 1-2.....    | 0.000840                                                | 98,821                            | 83                                              | 98,780                                                | 6,810,898                                              | 68.9                              |
| 2-3.....    | 0.000558                                                | 98,738                            | 55                                              | 98,711                                                | 6,712,118                                              | 68.0                              |
| 3-4.....    | 0.000434                                                | 98,683                            | 43                                              | 98,662                                                | 6,613,407                                              | 67.0                              |
| 4-5.....    | 0.000367                                                | 98,640                            | 36                                              | 98,622                                                | 6,514,745                                              | 66.0                              |
| 5-6.....    | 0.000312                                                | 98,604                            | 31                                              | 98,589                                                | 6,416,123                                              | 65.1                              |
| 6-7.....    | 0.000294                                                | 98,573                            | 29                                              | 98,559                                                | 6,317,534                                              | 64.1                              |
| 7-8.....    | 0.000267                                                | 98,544                            | 26                                              | 98,531                                                | 6,218,975                                              | 63.1                              |
| 8-9.....    | 0.000216                                                | 98,518                            | 21                                              | 98,507                                                | 6,120,444                                              | 62.1                              |
| 9-10.....   | 0.000146                                                | 98,497                            | 14                                              | 98,490                                                | 6,021,936                                              | 61.1                              |
| 10-11.....  | 0.000087                                                | 98,482                            | 9                                               | 98,478                                                | 5,923,447                                              | 60.1                              |
| 11-12.....  | 0.000086                                                | 98,474                            | 8                                               | 98,470                                                | 5,824,969                                              | 59.2                              |
| 12-13.....  | 0.000195                                                | 98,466                            | 19                                              | 98,456                                                | 5,726,499                                              | 58.2                              |
| 13-14.....  | 0.000447                                                | 98,446                            | 44                                              | 98,424                                                | 5,628,043                                              | 57.2                              |
| 14-15.....  | 0.000804                                                | 98,402                            | 79                                              | 98,363                                                | 5,529,619                                              | 56.2                              |
| 15-16.....  | 0.001206                                                | 98,323                            | 119                                             | 98,264                                                | 5,431,256                                              | 55.2                              |
| 16-17.....  | 0.001591                                                | 98,205                            | 156                                             | 98,126                                                | 5,332,992                                              | 54.3                              |
| 17-18.....  | 0.001933                                                | 98,048                            | 189                                             | 97,954                                                | 5,234,865                                              | 53.4                              |
| 18-19.....  | 0.002193                                                | 97,859                            | 215                                             | 97,752                                                | 5,136,912                                              | 52.5                              |
| 19-20.....  | 0.002384                                                | 97,644                            | 233                                             | 97,528                                                | 5,039,160                                              | 51.6                              |
| 20-21.....  | 0.002563                                                | 97,412                            | 250                                             | 97,287                                                | 4,941,632                                              | 50.7                              |
| 21-22.....  | 0.002745                                                | 97,162                            | 267                                             | 97,028                                                | 4,844,346                                              | 49.9                              |
| 22-23.....  | 0.002891                                                | 96,895                            | 280                                             | 96,755                                                | 4,747,317                                              | 49.0                              |
| 23-24.....  | 0.003000                                                | 96,615                            | 290                                             | 96,470                                                | 4,650,562                                              | 48.1                              |
| 24-25.....  | 0.003086                                                | 96,325                            | 297                                             | 96,177                                                | 4,554,092                                              | 47.3                              |
| 25-26.....  | 0.003156                                                | 96,028                            | 303                                             | 95,876                                                | 4,457,916                                              | 46.4                              |
| 26-27.....  | 0.003229                                                | 95,725                            | 309                                             | 95,570                                                | 4,362,039                                              | 45.6                              |
| 27-28.....  | 0.003318                                                | 95,416                            | 317                                             | 95,257                                                | 4,266,469                                              | 44.7                              |
| 28-29.....  | 0.003430                                                | 95,099                            | 326                                             | 94,936                                                | 4,171,211                                              | 43.9                              |
| 29-30.....  | 0.003555                                                | 94,773                            | 337                                             | 94,604                                                | 4,076,275                                              | 43.0                              |
| 30-31.....  | 0.003680                                                | 94,436                            | 347                                             | 94,262                                                | 3,981,671                                              | 42.2                              |
| 31-32.....  | 0.003799                                                | 94,088                            | 357                                             | 93,910                                                | 3,887,409                                              | 41.3                              |
| 32-33.....  | 0.003928                                                | 93,731                            | 368                                             | 93,547                                                | 3,793,499                                              | 40.5                              |
| 33-34.....  | 0.004076                                                | 93,363                            | 381                                             | 93,173                                                | 3,699,952                                              | 39.6                              |
| 34-35.....  | 0.004252                                                | 92,982                            | 395                                             | 92,785                                                | 3,606,780                                              | 38.8                              |
| 35-36.....  | 0.004457                                                | 92,587                            | 413                                             | 92,381                                                | 3,513,995                                              | 38.0                              |
| 36-37.....  | 0.004683                                                | 92,174                            | 432                                             | 91,959                                                | 3,421,614                                              | 37.1                              |
| 37-38.....  | 0.004922                                                | 91,743                            | 452                                             | 91,517                                                | 3,329,656                                              | 36.3                              |
| 38-39.....  | 0.005154                                                | 91,291                            | 471                                             | 91,056                                                | 3,238,139                                              | 35.5                              |
| 39-40.....  | 0.005372                                                | 90,821                            | 488                                             | 90,577                                                | 3,147,083                                              | 34.7                              |
| 40-41.....  | 0.005605                                                | 90,333                            | 506                                             | 90,080                                                | 3,056,506                                              | 33.8                              |
| 41-42.....  | 0.005856                                                | 89,826                            | 526                                             | 89,563                                                | 2,966,427                                              | 33.0                              |
| 42-43.....  | 0.006096                                                | 89,300                            | 544                                             | 89,028                                                | 2,876,863                                              | 32.2                              |
| 43-44.....  | 0.006331                                                | 88,756                            | 562                                             | 88,475                                                | 2,787,835                                              | 31.4                              |
| 44-45.....  | 0.006580                                                | 88,194                            | 580                                             | 87,904                                                | 2,699,360                                              | 30.6                              |
| 45-46.....  | 0.006870                                                | 87,614                            | 602                                             | 87,313                                                | 2,611,456                                              | 29.8                              |
| 46-47.....  | 0.007217                                                | 87,012                            | 628                                             | 86,698                                                | 2,524,144                                              | 29.0                              |
| 47-48.....  | 0.007610                                                | 86,384                            | 657                                             | 86,055                                                | 2,437,446                                              | 28.2                              |
| 48-49.....  | 0.008037                                                | 85,726                            | 689                                             | 85,382                                                | 2,351,391                                              | 27.4                              |
| 49-50.....  | 0.008489                                                | 85,038                            | 722                                             | 84,677                                                | 2,266,009                                              | 26.6                              |
| 50-51.....  | 0.008951                                                | 84,316                            | 755                                             | 83,938                                                | 2,181,332                                              | 25.9                              |
| 51-52.....  | 0.009468                                                | 83,561                            | 791                                             | 83,165                                                | 2,097,394                                              | 25.1                              |
| 52-53.....  | 0.010101                                                | 82,770                            | 836                                             | 82,352                                                | 2,014,228                                              | 24.3                              |
| 53-54.....  | 0.010895                                                | 81,934                            | 893                                             | 81,487                                                | 1,931,877                                              | 23.6                              |
| 54-55.....  | 0.011837                                                | 81,041                            | 959                                             | 80,561                                                | 1,850,389                                              | 22.8                              |
| 55-56.....  | 0.012837                                                | 80,082                            | 1,028                                           | 79,568                                                | 1,769,828                                              | 22.1                              |
| 56-57.....  | 0.013874                                                | 79,054                            | 1,097                                           | 78,505                                                | 1,690,260                                              | 21.4                              |
| 57-58.....  | 0.015022                                                | 77,957                            | 1,171                                           | 77,371                                                | 1,611,755                                              | 20.7                              |
| 58-59.....  | 0.016283                                                | 76,786                            | 1,250                                           | 76,161                                                | 1,534,384                                              | 20.0                              |
| 59-60.....  | 0.017627                                                | 75,536                            | 1,331                                           | 74,870                                                | 1,458,223                                              | 19.3                              |

**Table 14. Life table for Black, non-Hispanic males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table14.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table14.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.018999                                                | 74,204                            | 1,410                                           | 73,499                                                | 1,383,353                                              | 18.6                              |
| 61–62.....         | 0.020398                                                | 72,794                            | 1,485                                           | 72,052                                                | 1,309,854                                              | 18.0                              |
| 62–63.....         | 0.021893                                                | 71,309                            | 1,561                                           | 70,529                                                | 1,237,802                                              | 17.4                              |
| 63–64.....         | 0.023545                                                | 69,748                            | 1,642                                           | 68,927                                                | 1,167,273                                              | 16.7                              |
| 64–65.....         | 0.025376                                                | 68,106                            | 1,728                                           | 67,242                                                | 1,098,346                                              | 16.1                              |
| 65–66.....         | 0.027417                                                | 66,378                            | 1,820                                           | 65,468                                                | 1,031,104                                              | 15.5                              |
| 66–67.....         | 0.029572                                                | 64,558                            | 1,909                                           | 63,603                                                | 965,637                                                | 15.0                              |
| 67–68.....         | 0.031531                                                | 62,649                            | 1,975                                           | 61,661                                                | 902,033                                                | 14.4                              |
| 68–69.....         | 0.033463                                                | 60,673                            | 2,030                                           | 59,658                                                | 840,372                                                | 13.9                              |
| 69–70.....         | 0.035269                                                | 58,643                            | 2,068                                           | 57,609                                                | 780,714                                                | 13.3                              |
| 70–71.....         | 0.037024                                                | 56,575                            | 2,095                                           | 55,527                                                | 723,105                                                | 12.8                              |
| 71–72.....         | 0.039127                                                | 54,480                            | 2,132                                           | 53,414                                                | 667,578                                                | 12.3                              |
| 72–73.....         | 0.041530                                                | 52,349                            | 2,174                                           | 51,262                                                | 614,163                                                | 11.7                              |
| 73–74.....         | 0.043646                                                | 50,175                            | 2,190                                           | 49,080                                                | 562,902                                                | 11.2                              |
| 74–75.....         | 0.046104                                                | 47,985                            | 2,212                                           | 46,879                                                | 513,822                                                | 10.7                              |
| 75–76.....         | 0.049245                                                | 45,772                            | 2,254                                           | 44,645                                                | 466,944                                                | 10.2                              |
| 76–77.....         | 0.053682                                                | 43,518                            | 2,336                                           | 42,350                                                | 422,298                                                | 9.7                               |
| 77–78.....         | 0.056302                                                | 41,182                            | 2,319                                           | 40,023                                                | 379,948                                                | 9.2                               |
| 78–79.....         | 0.061981                                                | 38,863                            | 2,409                                           | 37,659                                                | 339,925                                                | 8.7                               |
| 79–80.....         | 0.065356                                                | 36,455                            | 2,383                                           | 35,263                                                | 302,266                                                | 8.3                               |
| 80–81.....         | 0.072060                                                | 34,072                            | 2,455                                           | 32,845                                                | 267,003                                                | 7.8                               |
| 81–82.....         | 0.077655                                                | 31,617                            | 2,455                                           | 30,389                                                | 234,158                                                | 7.4                               |
| 82–83.....         | 0.083464                                                | 29,162                            | 2,434                                           | 27,945                                                | 203,769                                                | 7.0                               |
| 83–84.....         | 0.092868                                                | 26,728                            | 2,482                                           | 25,487                                                | 175,824                                                | 6.6                               |
| 84–85.....         | 0.098244                                                | 24,246                            | 2,382                                           | 23,055                                                | 150,338                                                | 6.2                               |
| 85–86.....         | 0.107718                                                | 21,864                            | 2,355                                           | 20,686                                                | 127,283                                                | 5.8                               |
| 86–87.....         | 0.117756                                                | 19,509                            | 2,297                                           | 18,360                                                | 106,597                                                | 5.5                               |
| 87–88.....         | 0.128514                                                | 17,211                            | 2,212                                           | 16,105                                                | 88,237                                                 | 5.1                               |
| 88–89.....         | 0.140005                                                | 14,999                            | 2,100                                           | 13,949                                                | 72,132                                                 | 4.8                               |
| 89–90.....         | 0.152232                                                | 12,899                            | 1,964                                           | 11,918                                                | 58,182                                                 | 4.5                               |
| 90–91.....         | 0.165192                                                | 10,936                            | 1,806                                           | 10,032                                                | 46,265                                                 | 4.2                               |
| 91–92.....         | 0.178872                                                | 9,129                             | 1,633                                           | 8,313                                                 | 36,232                                                 | 4.0                               |
| 92–93.....         | 0.193248                                                | 7,496                             | 1,449                                           | 6,772                                                 | 27,920                                                 | 3.7                               |
| 93–94.....         | 0.208287                                                | 6,048                             | 1,260                                           | 5,418                                                 | 21,148                                                 | 3.5                               |
| 94–95.....         | 0.223942                                                | 4,788                             | 1,072                                           | 4,252                                                 | 15,730                                                 | 3.3                               |
| 95–96.....         | 0.240157                                                | 3,716                             | 892                                             | 3,270                                                 | 11,478                                                 | 3.1                               |
| 96–97.....         | 0.256865                                                | 2,823                             | 725                                             | 2,461                                                 | 8,209                                                  | 2.9                               |
| 97–98.....         | 0.273989                                                | 2,098                             | 575                                             | 1,811                                                 | 5,748                                                  | 2.7                               |
| 98–99.....         | 0.291442                                                | 1,523                             | 444                                             | 1,301                                                 | 3,937                                                  | 2.6                               |
| 99–100.....        | 0.309132                                                | 1,079                             | 334                                             | 913                                                   | 2,636                                                  | 2.4                               |
| 100 and older..... | 1.000000                                                | 746                               | 746                                             | 1,723                                                 | 1,723                                                  | 2.3                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 15. Life table for Black, non-Hispanic females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table15.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table15.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.009935                                                | 100,000                           | 993                                             | 99,164                                                | 7,652,252                                              | 76.5                              |
| 1-2.....    | 0.000742                                                | 99,007                            | 73                                              | 98,970                                                | 7,553,088                                              | 76.3                              |
| 2-3.....    | 0.000433                                                | 98,933                            | 43                                              | 98,912                                                | 7,454,118                                              | 75.3                              |
| 3-4.....    | 0.000377                                                | 98,890                            | 37                                              | 98,872                                                | 7,355,207                                              | 74.4                              |
| 4-5.....    | 0.000281                                                | 98,853                            | 28                                              | 98,839                                                | 7,256,335                                              | 73.4                              |
| 5-6.....    | 0.000265                                                | 98,825                            | 26                                              | 98,812                                                | 7,157,496                                              | 72.4                              |
| 6-7.....    | 0.000234                                                | 98,799                            | 23                                              | 98,787                                                | 7,058,684                                              | 71.4                              |
| 7-8.....    | 0.000211                                                | 98,776                            | 21                                              | 98,765                                                | 6,959,897                                              | 70.5                              |
| 8-9.....    | 0.000194                                                | 98,755                            | 19                                              | 98,745                                                | 6,861,131                                              | 69.5                              |
| 9-10.....   | 0.000183                                                | 98,736                            | 18                                              | 98,727                                                | 6,762,386                                              | 68.5                              |
| 10-11.....  | 0.000180                                                | 98,718                            | 18                                              | 98,709                                                | 6,663,659                                              | 67.5                              |
| 11-12.....  | 0.000190                                                | 98,700                            | 19                                              | 98,690                                                | 6,564,950                                              | 66.5                              |
| 12-13.....  | 0.000216                                                | 98,681                            | 21                                              | 98,670                                                | 6,466,260                                              | 65.5                              |
| 13-14.....  | 0.000261                                                | 98,660                            | 26                                              | 98,647                                                | 6,367,590                                              | 64.5                              |
| 14-15.....  | 0.000323                                                | 98,634                            | 32                                              | 98,618                                                | 6,268,943                                              | 63.6                              |
| 15-16.....  | 0.000394                                                | 98,602                            | 39                                              | 98,583                                                | 6,170,325                                              | 62.6                              |
| 16-17.....  | 0.000470                                                | 98,563                            | 46                                              | 98,540                                                | 6,071,742                                              | 61.6                              |
| 17-18.....  | 0.000549                                                | 98,517                            | 54                                              | 98,490                                                | 5,973,202                                              | 60.6                              |
| 18-19.....  | 0.000627                                                | 98,463                            | 62                                              | 98,432                                                | 5,874,712                                              | 59.7                              |
| 19-20.....  | 0.000703                                                | 98,401                            | 69                                              | 98,367                                                | 5,776,280                                              | 58.7                              |
| 20-21.....  | 0.000780                                                | 98,332                            | 77                                              | 98,294                                                | 5,677,913                                              | 57.7                              |
| 21-22.....  | 0.000858                                                | 98,255                            | 84                                              | 98,213                                                | 5,579,619                                              | 56.8                              |
| 22-23.....  | 0.000934                                                | 98,171                            | 92                                              | 98,125                                                | 5,481,406                                              | 55.8                              |
| 23-24.....  | 0.001009                                                | 98,079                            | 99                                              | 98,030                                                | 5,383,281                                              | 54.9                              |
| 24-25.....  | 0.001085                                                | 97,980                            | 106                                             | 97,927                                                | 5,285,251                                              | 53.9                              |
| 25-26.....  | 0.001165                                                | 97,874                            | 114                                             | 97,817                                                | 5,187,324                                              | 53.0                              |
| 26-27.....  | 0.001250                                                | 97,760                            | 122                                             | 97,699                                                | 5,089,506                                              | 52.1                              |
| 27-28.....  | 0.001336                                                | 97,638                            | 130                                             | 97,573                                                | 4,991,807                                              | 51.1                              |
| 28-29.....  | 0.001420                                                | 97,507                            | 138                                             | 97,438                                                | 4,894,235                                              | 50.2                              |
| 29-30.....  | 0.001500                                                | 97,369                            | 146                                             | 97,296                                                | 4,796,796                                              | 49.3                              |
| 30-31.....  | 0.001579                                                | 97,223                            | 153                                             | 97,146                                                | 4,699,500                                              | 48.3                              |
| 31-32.....  | 0.001660                                                | 97,069                            | 161                                             | 96,989                                                | 4,602,354                                              | 47.4                              |
| 32-33.....  | 0.001749                                                | 96,908                            | 169                                             | 96,824                                                | 4,505,365                                              | 46.5                              |
| 33-34.....  | 0.001854                                                | 96,739                            | 179                                             | 96,649                                                | 4,408,542                                              | 45.6                              |
| 34-35.....  | 0.001980                                                | 96,560                            | 191                                             | 96,464                                                | 4,311,893                                              | 44.7                              |
| 35-36.....  | 0.002123                                                | 96,368                            | 205                                             | 96,266                                                | 4,215,429                                              | 43.7                              |
| 36-37.....  | 0.002280                                                | 96,164                            | 219                                             | 96,054                                                | 4,119,162                                              | 42.8                              |
| 37-38.....  | 0.002454                                                | 95,945                            | 235                                             | 95,827                                                | 4,023,108                                              | 41.9                              |
| 38-39.....  | 0.002632                                                | 95,709                            | 252                                             | 95,583                                                | 3,927,281                                              | 41.0                              |
| 39-40.....  | 0.002809                                                | 95,457                            | 268                                             | 95,323                                                | 3,831,698                                              | 40.1                              |
| 40-41.....  | 0.002997                                                | 95,189                            | 285                                             | 95,046                                                | 3,736,375                                              | 39.3                              |
| 41-42.....  | 0.003191                                                | 94,904                            | 303                                             | 94,752                                                | 3,641,328                                              | 38.4                              |
| 42-43.....  | 0.003371                                                | 94,601                            | 319                                             | 94,442                                                | 3,546,576                                              | 37.5                              |
| 43-44.....  | 0.003537                                                | 94,282                            | 334                                             | 94,115                                                | 3,452,135                                              | 36.6                              |
| 44-45.....  | 0.003704                                                | 93,949                            | 348                                             | 93,775                                                | 3,358,019                                              | 35.7                              |
| 45-46.....  | 0.003896                                                | 93,601                            | 365                                             | 93,418                                                | 3,264,245                                              | 34.9                              |
| 46-47.....  | 0.004122                                                | 93,236                            | 384                                             | 93,044                                                | 3,170,826                                              | 34.0                              |
| 47-48.....  | 0.004369                                                | 92,852                            | 406                                             | 92,649                                                | 3,077,783                                              | 33.1                              |
| 48-49.....  | 0.004630                                                | 92,446                            | 428                                             | 92,232                                                | 2,985,134                                              | 32.3                              |
| 49-50.....  | 0.004904                                                | 92,018                            | 451                                             | 91,792                                                | 2,892,902                                              | 31.4                              |
| 50-51.....  | 0.005188                                                | 91,567                            | 475                                             | 91,329                                                | 2,801,110                                              | 30.6                              |
| 51-52.....  | 0.005510                                                | 91,092                            | 502                                             | 90,841                                                | 2,709,781                                              | 29.7                              |
| 52-53.....  | 0.005909                                                | 90,590                            | 535                                             | 90,322                                                | 2,618,940                                              | 28.9                              |
| 53-54.....  | 0.006408                                                | 90,054                            | 577                                             | 89,766                                                | 2,528,618                                              | 28.1                              |
| 54-55.....  | 0.006998                                                | 89,477                            | 626                                             | 89,164                                                | 2,438,852                                              | 27.3                              |
| 55-56.....  | 0.007615                                                | 88,851                            | 677                                             | 88,513                                                | 2,349,688                                              | 26.4                              |
| 56-57.....  | 0.008255                                                | 88,175                            | 728                                             | 87,811                                                | 2,261,175                                              | 25.6                              |
| 57-58.....  | 0.008981                                                | 87,447                            | 785                                             | 87,054                                                | 2,173,365                                              | 24.9                              |
| 58-59.....  | 0.009801                                                | 86,661                            | 849                                             | 86,237                                                | 2,086,311                                              | 24.1                              |
| 59-60.....  | 0.010687                                                | 85,812                            | 917                                             | 85,353                                                | 2,000,074                                              | 23.3                              |

**Table 15. Life table for Black, non-Hispanic females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table15.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table15.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.011617                                                | 84,895                            | 986                                             | 84,402                                                | 1,914,721                                              | 22.6                              |
| 61–62.....         | 0.012550                                                | 83,909                            | 1,053                                           | 83,382                                                | 1,830,320                                              | 21.8                              |
| 62–63.....         | 0.013467                                                | 82,855                            | 1,116                                           | 82,298                                                | 1,746,938                                              | 21.1                              |
| 63–64.....         | 0.014364                                                | 81,740                            | 1,174                                           | 81,153                                                | 1,664,640                                              | 20.4                              |
| 64–65.....         | 0.015276                                                | 80,566                            | 1,231                                           | 79,950                                                | 1,583,487                                              | 19.7                              |
| 65–66.....         | 0.016237                                                | 79,335                            | 1,288                                           | 78,691                                                | 1,503,537                                              | 19.0                              |
| 66–67.....         | 0.017306                                                | 78,047                            | 1,351                                           | 77,371                                                | 1,424,846                                              | 18.3                              |
| 67–68.....         | 0.018329                                                | 76,696                            | 1,406                                           | 75,993                                                | 1,347,475                                              | 17.6                              |
| 68–69.....         | 0.019567                                                | 75,290                            | 1,473                                           | 74,554                                                | 1,271,482                                              | 16.9                              |
| 69–70.....         | 0.020932                                                | 73,817                            | 1,545                                           | 73,044                                                | 1,196,928                                              | 16.2                              |
| 70–71.....         | 0.022447                                                | 72,272                            | 1,622                                           | 71,461                                                | 1,123,884                                              | 15.6                              |
| 71–72.....         | 0.023936                                                | 70,650                            | 1,691                                           | 69,804                                                | 1,052,423                                              | 14.9                              |
| 72–73.....         | 0.025719                                                | 68,958                            | 1,774                                           | 68,072                                                | 982,619                                                | 14.2                              |
| 73–74.....         | 0.027618                                                | 67,185                            | 1,855                                           | 66,257                                                | 914,548                                                | 13.6                              |
| 74–75.....         | 0.029844                                                | 65,329                            | 1,950                                           | 64,355                                                | 848,291                                                | 13.0                              |
| 75–76.....         | 0.031758                                                | 63,380                            | 2,013                                           | 62,373                                                | 783,936                                                | 12.4                              |
| 76–77.....         | 0.035080                                                | 61,367                            | 2,153                                           | 60,291                                                | 721,563                                                | 11.8                              |
| 77–78.....         | 0.037685                                                | 59,214                            | 2,232                                           | 58,098                                                | 661,272                                                | 11.2                              |
| 78–79.....         | 0.041686                                                | 56,983                            | 2,375                                           | 55,795                                                | 603,174                                                | 10.6                              |
| 79–80.....         | 0.045630                                                | 54,607                            | 2,492                                           | 53,361                                                | 547,379                                                | 10.0                              |
| 80–81.....         | 0.050139                                                | 52,116                            | 2,613                                           | 50,809                                                | 494,017                                                | 9.5                               |
| 81–82.....         | 0.053654                                                | 49,503                            | 2,656                                           | 48,175                                                | 443,208                                                | 9.0                               |
| 82–83.....         | 0.059056                                                | 46,847                            | 2,767                                           | 45,463                                                | 395,034                                                | 8.4                               |
| 83–84.....         | 0.066329                                                | 44,080                            | 2,924                                           | 42,618                                                | 349,570                                                | 7.9                               |
| 84–85.....         | 0.072383                                                | 41,156                            | 2,979                                           | 39,667                                                | 306,952                                                | 7.5                               |
| 85–86.....         | 0.080416                                                | 38,177                            | 3,070                                           | 36,642                                                | 267,286                                                | 7.0                               |
| 86–87.....         | 0.087253                                                | 35,107                            | 3,063                                           | 33,576                                                | 230,643                                                | 6.6                               |
| 87–88.....         | 0.094257                                                | 32,044                            | 3,020                                           | 30,534                                                | 197,068                                                | 6.1                               |
| 88–89.....         | 0.104605                                                | 29,024                            | 3,036                                           | 27,506                                                | 166,534                                                | 5.7                               |
| 89–90.....         | 0.115859                                                | 25,988                            | 3,011                                           | 24,482                                                | 139,028                                                | 5.3                               |
| 90–91.....         | 0.128047                                                | 22,977                            | 2,942                                           | 21,506                                                | 114,546                                                | 5.0                               |
| 91–92.....         | 0.141190                                                | 20,035                            | 2,829                                           | 18,620                                                | 93,041                                                 | 4.6                               |
| 92–93.....         | 0.155292                                                | 17,206                            | 2,672                                           | 15,870                                                | 74,421                                                 | 4.3                               |
| 93–94.....         | 0.170346                                                | 14,534                            | 2,476                                           | 13,296                                                | 58,551                                                 | 4.0                               |
| 94–95.....         | 0.186328                                                | 12,058                            | 2,247                                           | 10,935                                                | 45,255                                                 | 3.8                               |
| 95–96.....         | 0.203196                                                | 9,811                             | 1,994                                           | 8,815                                                 | 34,320                                                 | 3.5                               |
| 96–97.....         | 0.220888                                                | 7,818                             | 1,727                                           | 6,954                                                 | 25,505                                                 | 3.3                               |
| 97–98.....         | 0.239325                                                | 6,091                             | 1,458                                           | 5,362                                                 | 18,551                                                 | 3.0                               |
| 98–99.....         | 0.258409                                                | 4,633                             | 1,197                                           | 4,035                                                 | 13,189                                                 | 2.8                               |
| 99–100.....        | 0.278025                                                | 3,436                             | 955                                             | 2,958                                                 | 9,154                                                  | 2.7                               |
| 100 and older..... | 1.000000                                                | 2481                              | 2481                                            | 6196                                                  | 6196                                                   | 2.5                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 16. Life table for the White, non-Hispanic population: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table16.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table16.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.004508                                                | 100,000                           | 451                                             | 99,606                                                | 7,752,213                                              | 77.5                              |
| 1-2.....    | 0.000402                                                | 99,549                            | 40                                              | 99,529                                                | 7,652,607                                              | 76.9                              |
| 2-3.....    | 0.000261                                                | 99,509                            | 26                                              | 99,496                                                | 7,553,078                                              | 75.9                              |
| 3-4.....    | 0.000199                                                | 99,483                            | 20                                              | 99,473                                                | 7,453,581                                              | 74.9                              |
| 4-5.....    | 0.000150                                                | 99,463                            | 15                                              | 99,456                                                | 7,354,108                                              | 73.9                              |
| 5-6.....    | 0.000137                                                | 99,449                            | 14                                              | 99,442                                                | 7,254,652                                              | 72.9                              |
| 6-7.....    | 0.000122                                                | 99,435                            | 12                                              | 99,429                                                | 7,155,210                                              | 72.0                              |
| 7-8.....    | 0.000111                                                | 99,423                            | 11                                              | 99,417                                                | 7,055,782                                              | 71.0                              |
| 8-9.....    | 0.000103                                                | 99,412                            | 10                                              | 99,407                                                | 6,956,364                                              | 70.0                              |
| 9-10.....   | 0.000098                                                | 99,401                            | 10                                              | 99,397                                                | 6,856,958                                              | 69.0                              |
| 10-11.....  | 0.000099                                                | 99,392                            | 10                                              | 99,387                                                | 6,757,561                                              | 68.0                              |
| 11-12.....  | 0.000111                                                | 99,382                            | 11                                              | 99,376                                                | 6,658,174                                              | 67.0                              |
| 12-13.....  | 0.000142                                                | 99,371                            | 14                                              | 99,364                                                | 6,558,798                                              | 66.0                              |
| 13-14.....  | 0.000195                                                | 99,357                            | 19                                              | 99,347                                                | 6,459,434                                              | 65.0                              |
| 14-15.....  | 0.000263                                                | 99,337                            | 26                                              | 99,324                                                | 6,360,087                                              | 64.0                              |
| 15-16.....  | 0.000339                                                | 99,311                            | 34                                              | 99,294                                                | 6,260,763                                              | 63.0                              |
| 16-17.....  | 0.000417                                                | 99,278                            | 41                                              | 99,257                                                | 6,161,468                                              | 62.1                              |
| 17-18.....  | 0.000491                                                | 99,236                            | 49                                              | 99,212                                                | 6,062,212                                              | 61.1                              |
| 18-19.....  | 0.000560                                                | 99,187                            | 56                                              | 99,160                                                | 5,963,000                                              | 60.1                              |
| 19-20.....  | 0.000623                                                | 99,132                            | 62                                              | 99,101                                                | 5,863,840                                              | 59.2                              |
| 20-21.....  | 0.000688                                                | 99,070                            | 68                                              | 99,036                                                | 5,764,739                                              | 58.2                              |
| 21-22.....  | 0.000758                                                | 99,002                            | 75                                              | 98,964                                                | 5,665,703                                              | 57.2                              |
| 22-23.....  | 0.000832                                                | 98,927                            | 82                                              | 98,886                                                | 5,566,738                                              | 56.3                              |
| 23-24.....  | 0.000912                                                | 98,845                            | 90                                              | 98,800                                                | 5,467,853                                              | 55.3                              |
| 24-25.....  | 0.001001                                                | 98,755                            | 99                                              | 98,705                                                | 5,369,053                                              | 54.4                              |
| 25-26.....  | 0.001095                                                | 98,656                            | 108                                             | 98,602                                                | 5,270,348                                              | 53.4                              |
| 26-27.....  | 0.001193                                                | 98,548                            | 118                                             | 98,489                                                | 5,171,746                                              | 52.5                              |
| 27-28.....  | 0.001299                                                | 98,430                            | 128                                             | 98,366                                                | 5,073,257                                              | 51.5                              |
| 28-29.....  | 0.001408                                                | 98,302                            | 138                                             | 98,233                                                | 4,974,891                                              | 50.6                              |
| 29-30.....  | 0.001516                                                | 98,164                            | 149                                             | 98,089                                                | 4,876,658                                              | 49.7                              |
| 30-31.....  | 0.001623                                                | 98,015                            | 159                                             | 97,935                                                | 4,778,569                                              | 48.8                              |
| 31-32.....  | 0.001726                                                | 97,856                            | 169                                             | 97,771                                                | 4,680,633                                              | 47.8                              |
| 32-33.....  | 0.001823                                                | 97,687                            | 178                                             | 97,598                                                | 4,582,862                                              | 46.9                              |
| 33-34.....  | 0.001913                                                | 97,509                            | 187                                             | 97,416                                                | 4,485,264                                              | 46.0                              |
| 34-35.....  | 0.002002                                                | 97,322                            | 195                                             | 97,225                                                | 4,387,848                                              | 45.1                              |
| 35-36.....  | 0.002094                                                | 97,128                            | 203                                             | 97,026                                                | 4,290,623                                              | 44.2                              |
| 36-37.....  | 0.002191                                                | 96,924                            | 212                                             | 96,818                                                | 4,193,597                                              | 43.3                              |
| 37-38.....  | 0.002292                                                | 96,712                            | 222                                             | 96,601                                                | 4,096,779                                              | 42.4                              |
| 38-39.....  | 0.002397                                                | 96,490                            | 231                                             | 96,375                                                | 4,000,178                                              | 41.5                              |
| 39-40.....  | 0.002506                                                | 96,259                            | 241                                             | 96,138                                                | 3,903,804                                              | 40.6                              |
| 40-41.....  | 0.002632                                                | 96,018                            | 253                                             | 95,891                                                | 3,807,665                                              | 39.7                              |
| 41-42.....  | 0.002767                                                | 95,765                            | 265                                             | 95,633                                                | 3,711,774                                              | 38.8                              |
| 42-43.....  | 0.002897                                                | 95,500                            | 277                                             | 95,362                                                | 3,616,141                                              | 37.9                              |
| 43-44.....  | 0.003022                                                | 95,223                            | 288                                             | 95,080                                                | 3,520,779                                              | 37.0                              |
| 44-45.....  | 0.003156                                                | 94,936                            | 300                                             | 94,786                                                | 3,425,700                                              | 36.1                              |
| 45-46.....  | 0.003319                                                | 94,636                            | 314                                             | 94,479                                                | 3,330,914                                              | 35.2                              |
| 46-47.....  | 0.003528                                                | 94,322                            | 333                                             | 94,156                                                | 3,236,435                                              | 34.3                              |
| 47-48.....  | 0.003773                                                | 93,989                            | 355                                             | 93,812                                                | 3,142,280                                              | 33.4                              |
| 48-49.....  | 0.004041                                                | 93,635                            | 378                                             | 93,445                                                | 3,048,468                                              | 32.6                              |
| 49-50.....  | 0.004325                                                | 93,256                            | 403                                             | 93,054                                                | 2,955,022                                              | 31.7                              |
| 50-51.....  | 0.004617                                                | 92,853                            | 429                                             | 92,638                                                | 2,861,968                                              | 30.8                              |
| 51-52.....  | 0.004938                                                | 92,424                            | 456                                             | 92,196                                                | 2,769,330                                              | 30.0                              |
| 52-53.....  | 0.005312                                                | 91,968                            | 488                                             | 91,724                                                | 2,677,134                                              | 29.1                              |
| 53-54.....  | 0.005760                                                | 91,479                            | 527                                             | 91,216                                                | 2,585,410                                              | 28.3                              |
| 54-55.....  | 0.006282                                                | 90,952                            | 571                                             | 90,667                                                | 2,494,194                                              | 27.4                              |
| 55-56.....  | 0.006831                                                | 90,381                            | 617                                             | 90,072                                                | 2,403,528                                              | 26.6                              |
| 56-57.....  | 0.007406                                                | 89,764                            | 665                                             | 89,431                                                | 2,313,455                                              | 25.8                              |
| 57-58.....  | 0.008050                                                | 89,099                            | 717                                             | 88,740                                                | 2,224,024                                              | 25.0                              |
| 58-59.....  | 0.008758                                                | 88,382                            | 774                                             | 87,994                                                | 2,135,284                                              | 24.2                              |
| 59-60.....  | 0.009498                                                | 87,607                            | 832                                             | 87,191                                                | 2,047,289                                              | 23.4                              |

**Table 16. Life table for the White, non-Hispanic population: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table16.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table16.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.010260                                                | 86,775                            | 890                                             | 86,330                                                | 1,960,098                                              | 22.6                              |
| 61–62.....         | 0.011022                                                | 85,885                            | 947                                             | 85,412                                                | 1,873,768                                              | 21.8                              |
| 62–63.....         | 0.011769                                                | 84,938                            | 1,000                                           | 84,439                                                | 1,788,356                                              | 21.1                              |
| 63–64.....         | 0.012514                                                | 83,939                            | 1,050                                           | 83,414                                                | 1,703,918                                              | 20.3                              |
| 64–65.....         | 0.013296                                                | 82,888                            | 1,102                                           | 82,337                                                | 1,620,504                                              | 19.6                              |
| 65–66.....         | 0.014142                                                | 81,786                            | 1,157                                           | 81,208                                                | 1,538,167                                              | 18.8                              |
| 66–67.....         | 0.015184                                                | 80,630                            | 1,224                                           | 80,017                                                | 1,456,959                                              | 18.1                              |
| 67–68.....         | 0.016234                                                | 79,405                            | 1,289                                           | 78,761                                                | 1,376,941                                              | 17.3                              |
| 68–69.....         | 0.017430                                                | 78,116                            | 1,362                                           | 77,436                                                | 1,298,181                                              | 16.6                              |
| 69–70.....         | 0.018754                                                | 76,755                            | 1,439                                           | 76,035                                                | 1,220,745                                              | 15.9                              |
| 70–71.....         | 0.020126                                                | 75,315                            | 1,516                                           | 74,557                                                | 1,144,710                                              | 15.2                              |
| 71–72.....         | 0.021681                                                | 73,799                            | 1,600                                           | 72,999                                                | 1,070,153                                              | 14.5                              |
| 72–73.....         | 0.023567                                                | 72,199                            | 1,702                                           | 71,349                                                | 997,153                                                | 13.8                              |
| 73–74.....         | 0.025801                                                | 70,498                            | 1,819                                           | 69,588                                                | 925,805                                                | 13.1                              |
| 74–75.....         | 0.028468                                                | 68,679                            | 1,955                                           | 67,701                                                | 856,216                                                | 12.5                              |
| 75–76.....         | 0.030882                                                | 66,724                            | 2,061                                           | 65,694                                                | 788,515                                                | 11.8                              |
| 76–77.....         | 0.034984                                                | 64,663                            | 2,262                                           | 63,532                                                | 722,821                                                | 11.2                              |
| 77–78.....         | 0.038130                                                | 62,401                            | 2,379                                           | 61,211                                                | 659,289                                                | 10.6                              |
| 78–79.....         | 0.042303                                                | 60,022                            | 2,539                                           | 58,752                                                | 598,077                                                | 10.0                              |
| 79–80.....         | 0.046074                                                | 57,483                            | 2,648                                           | 56,158                                                | 539,325                                                | 9.4                               |
| 80–81.....         | 0.051893                                                | 54,834                            | 2,845                                           | 53,411                                                | 483,167                                                | 8.8                               |
| 81–82.....         | 0.057582                                                | 51,989                            | 2,994                                           | 50,492                                                | 429,755                                                | 8.3                               |
| 82–83.....         | 0.064081                                                | 48,995                            | 3,140                                           | 47,425                                                | 379,263                                                | 7.7                               |
| 83–84.....         | 0.071164                                                | 45,855                            | 3,263                                           | 44,224                                                | 331,838                                                | 7.2                               |
| 84–85.....         | 0.078735                                                | 42,592                            | 3,354                                           | 40,915                                                | 287,614                                                | 6.8                               |
| 85–86.....         | 0.088109                                                | 39,239                            | 3,457                                           | 37,510                                                | 246,699                                                | 6.3                               |
| 86–87.....         | 0.096032                                                | 35,781                            | 3,436                                           | 34,063                                                | 209,189                                                | 5.8                               |
| 87–88.....         | 0.108092                                                | 32,345                            | 3,496                                           | 30,597                                                | 175,125                                                | 5.4                               |
| 88–89.....         | 0.121345                                                | 28,849                            | 3,501                                           | 27,099                                                | 144,528                                                | 5.0                               |
| 89–90.....         | 0.135828                                                | 25,348                            | 3,443                                           | 23,627                                                | 117,430                                                | 4.6                               |
| 90–91.....         | 0.151559                                                | 21,905                            | 3,320                                           | 20,245                                                | 93,803                                                 | 4.3                               |
| 91–92.....         | 0.168534                                                | 18,585                            | 3,132                                           | 17,019                                                | 73,558                                                 | 4.0                               |
| 92–93.....         | 0.186720                                                | 15,453                            | 2,885                                           | 14,010                                                | 56,539                                                 | 3.7                               |
| 93–94.....         | 0.206058                                                | 12,568                            | 2,590                                           | 11,273                                                | 42,528                                                 | 3.4                               |
| 94–95.....         | 0.226452                                                | 9,978                             | 2,260                                           | 8,848                                                 | 31,255                                                 | 3.1                               |
| 95–96.....         | 0.247780                                                | 7,718                             | 1,912                                           | 6,762                                                 | 22,407                                                 | 2.9                               |
| 96–97.....         | 0.269885                                                | 5,806                             | 1,567                                           | 5,023                                                 | 15,645                                                 | 2.7                               |
| 97–98.....         | 0.292584                                                | 4,239                             | 1,240                                           | 3,619                                                 | 10,623                                                 | 2.5                               |
| 98–99.....         | 0.315674                                                | 2,999                             | 947                                             | 2,525                                                 | 7,004                                                  | 2.3                               |
| 99–100.....        | 0.338935                                                | 2,052                             | 696                                             | 1,704                                                 | 4,478                                                  | 2.2                               |
| 100 and older..... | 1.000000                                                | 1,357                             | 1,357                                           | 2,774                                                 | 2,774                                                  | 2.0                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 17. Life table for White, non-Hispanic males: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table17.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table17.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.004875                                                | 100,000                           | 488                                             | 99,577                                                | 7,506,131                                              | 75.1                              |
| 1-2.....    | 0.000494                                                | 99,512                            | 49                                              | 99,488                                                | 7,406,554                                              | 74.4                              |
| 2-3.....    | 0.000343                                                | 99,463                            | 34                                              | 99,446                                                | 7,307,066                                              | 73.5                              |
| 3-4.....    | 0.000224                                                | 99,429                            | 22                                              | 99,418                                                | 7,207,620                                              | 72.5                              |
| 4-5.....    | 0.000184                                                | 99,407                            | 18                                              | 99,398                                                | 7,108,202                                              | 71.5                              |
| 5-6.....    | 0.000164                                                | 99,389                            | 16                                              | 99,381                                                | 7,008,804                                              | 70.5                              |
| 6-7.....    | 0.000143                                                | 99,372                            | 14                                              | 99,365                                                | 6,909,423                                              | 69.5                              |
| 7-8.....    | 0.000129                                                | 99,358                            | 13                                              | 99,352                                                | 6,810,058                                              | 68.5                              |
| 8-9.....    | 0.000119                                                | 99,345                            | 12                                              | 99,340                                                | 6,710,706                                              | 67.5                              |
| 9-10.....   | 0.000113                                                | 99,334                            | 11                                              | 99,328                                                | 6,611,367                                              | 66.6                              |
| 10-11.....  | 0.000116                                                | 99,322                            | 11                                              | 99,317                                                | 6,512,039                                              | 65.6                              |
| 11-12.....  | 0.000134                                                | 99,311                            | 13                                              | 99,304                                                | 6,412,722                                              | 64.6                              |
| 12-13.....  | 0.000177                                                | 99,298                            | 18                                              | 99,289                                                | 6,313,418                                              | 63.6                              |
| 13-14.....  | 0.000247                                                | 99,280                            | 25                                              | 99,268                                                | 6,214,129                                              | 62.6                              |
| 14-15.....  | 0.000337                                                | 99,256                            | 33                                              | 99,239                                                | 6,114,861                                              | 61.6                              |
| 15-16.....  | 0.000438                                                | 99,222                            | 43                                              | 99,200                                                | 6,015,622                                              | 60.6                              |
| 16-17.....  | 0.000541                                                | 99,179                            | 54                                              | 99,152                                                | 5,916,422                                              | 59.7                              |
| 17-18.....  | 0.000645                                                | 99,125                            | 64                                              | 99,093                                                | 5,817,270                                              | 58.7                              |
| 18-19.....  | 0.000746                                                | 99,061                            | 74                                              | 99,024                                                | 5,718,177                                              | 57.7                              |
| 19-20.....  | 0.000845                                                | 98,987                            | 84                                              | 98,945                                                | 5,619,153                                              | 56.8                              |
| 20-21.....  | 0.000946                                                | 98,903                            | 94                                              | 98,857                                                | 5,520,208                                              | 55.8                              |
| 21-22.....  | 0.001051                                                | 98,810                            | 104                                             | 98,758                                                | 5,421,352                                              | 54.9                              |
| 22-23.....  | 0.001157                                                | 98,706                            | 114                                             | 98,649                                                | 5,322,594                                              | 53.9                              |
| 23-24.....  | 0.001267                                                | 98,592                            | 125                                             | 98,529                                                | 5,223,945                                              | 53.0                              |
| 24-25.....  | 0.001383                                                | 98,467                            | 136                                             | 98,399                                                | 5,125,416                                              | 52.1                              |
| 25-26.....  | 0.001502                                                | 98,330                            | 148                                             | 98,257                                                | 5,027,018                                              | 51.1                              |
| 26-27.....  | 0.001628                                                | 98,183                            | 160                                             | 98,103                                                | 4,928,761                                              | 50.2                              |
| 27-28.....  | 0.001764                                                | 98,023                            | 173                                             | 97,936                                                | 4,830,658                                              | 49.3                              |
| 28-29.....  | 0.001909                                                | 97,850                            | 187                                             | 97,757                                                | 4,732,722                                              | 48.4                              |
| 29-30.....  | 0.002054                                                | 97,663                            | 201                                             | 97,563                                                | 4,634,965                                              | 47.5                              |
| 30-31.....  | 0.002199                                                | 97,463                            | 214                                             | 97,355                                                | 4,537,402                                              | 46.6                              |
| 31-32.....  | 0.002337                                                | 97,248                            | 227                                             | 97,135                                                | 4,440,047                                              | 45.7                              |
| 32-33.....  | 0.002459                                                | 97,021                            | 239                                             | 96,902                                                | 4,342,912                                              | 44.8                              |
| 33-34.....  | 0.002564                                                | 96,782                            | 248                                             | 96,658                                                | 4,246,011                                              | 43.9                              |
| 34-35.....  | 0.002660                                                | 96,534                            | 257                                             | 96,406                                                | 4,149,352                                              | 43.0                              |
| 35-36.....  | 0.002755                                                | 96,277                            | 265                                             | 96,145                                                | 4,052,946                                              | 42.1                              |
| 36-37.....  | 0.002857                                                | 96,012                            | 274                                             | 95,875                                                | 3,956,802                                              | 41.2                              |
| 37-38.....  | 0.002966                                                | 95,738                            | 284                                             | 95,596                                                | 3,860,927                                              | 40.3                              |
| 38-39.....  | 0.003085                                                | 95,454                            | 294                                             | 95,307                                                | 3,765,331                                              | 39.4                              |
| 39-40.....  | 0.003212                                                | 95,159                            | 306                                             | 95,007                                                | 3,670,024                                              | 38.6                              |
| 40-41.....  | 0.003360                                                | 94,854                            | 319                                             | 94,694                                                | 3,575,018                                              | 37.7                              |
| 41-42.....  | 0.003517                                                | 94,535                            | 333                                             | 94,369                                                | 3,480,323                                              | 36.8                              |
| 42-43.....  | 0.003663                                                | 94,202                            | 345                                             | 94,030                                                | 3,385,955                                              | 35.9                              |
| 43-44.....  | 0.003794                                                | 93,857                            | 356                                             | 93,679                                                | 3,291,925                                              | 35.1                              |
| 44-45.....  | 0.003930                                                | 93,501                            | 367                                             | 93,318                                                | 3,198,245                                              | 34.2                              |
| 45-46.....  | 0.004096                                                | 93,134                            | 382                                             | 92,943                                                | 3,104,928                                              | 33.3                              |
| 46-47.....  | 0.004320                                                | 92,752                            | 401                                             | 92,552                                                | 3,011,985                                              | 32.5                              |
| 47-48.....  | 0.004600                                                | 92,352                            | 425                                             | 92,139                                                | 2,919,433                                              | 31.6                              |
| 48-49.....  | 0.004927                                                | 91,927                            | 453                                             | 91,700                                                | 2,827,293                                              | 30.8                              |
| 49-50.....  | 0.005284                                                | 91,474                            | 483                                             | 91,232                                                | 2,735,593                                              | 29.9                              |
| 50-51.....  | 0.005653                                                | 90,991                            | 514                                             | 90,733                                                | 2,644,361                                              | 29.1                              |
| 51-52.....  | 0.006051                                                | 90,476                            | 547                                             | 90,203                                                | 2,553,627                                              | 28.2                              |
| 52-53.....  | 0.006509                                                | 89,929                            | 585                                             | 89,636                                                | 2,463,425                                              | 27.4                              |
| 53-54.....  | 0.007054                                                | 89,343                            | 630                                             | 89,028                                                | 2,373,788                                              | 26.6                              |
| 54-55.....  | 0.007687                                                | 88,713                            | 682                                             | 88,372                                                | 2,284,760                                              | 25.8                              |
| 55-56.....  | 0.008355                                                | 88,031                            | 735                                             | 87,664                                                | 2,196,388                                              | 25.0                              |
| 56-57.....  | 0.009057                                                | 87,296                            | 791                                             | 86,900                                                | 2,108,724                                              | 24.2                              |
| 57-58.....  | 0.009849                                                | 86,505                            | 852                                             | 86,079                                                | 2,021,824                                              | 23.4                              |
| 58-59.....  | 0.010723                                                | 85,653                            | 918                                             | 85,194                                                | 1,935,745                                              | 22.6                              |
| 59-60.....  | 0.011637                                                | 84,735                            | 986                                             | 84,242                                                | 1,850,551                                              | 21.8                              |

See footnotes at end of table.

**Table 17. Life table for White, non-Hispanic males: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table17.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table17.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.012573                                                | 83,749                            | 1,053                                           | 83,222                                                | 1,766,309                                              | 21.1                              |
| 61–62.....         | 0.013503                                                | 82,696                            | 1,117                                           | 82,137                                                | 1,683,087                                              | 20.4                              |
| 62–63.....         | 0.014421                                                | 81,579                            | 1,176                                           | 80,991                                                | 1,600,950                                              | 19.6                              |
| 63–64.....         | 0.015344                                                | 80,403                            | 1,234                                           | 79,786                                                | 1,519,959                                              | 18.9                              |
| 64–65.....         | 0.016314                                                | 79,169                            | 1,292                                           | 78,523                                                | 1,440,173                                              | 18.2                              |
| 65–66.....         | 0.017363                                                | 77,877                            | 1,352                                           | 77,201                                                | 1,361,650                                              | 17.5                              |
| 66–67.....         | 0.018669                                                | 76,525                            | 1,429                                           | 75,811                                                | 1,284,449                                              | 16.8                              |
| 67–68.....         | 0.019949                                                | 75,096                            | 1,498                                           | 74,347                                                | 1,208,638                                              | 16.1                              |
| 68–69.....         | 0.021367                                                | 73,598                            | 1,573                                           | 72,812                                                | 1,134,291                                              | 15.4                              |
| 69–70.....         | 0.022887                                                | 72,026                            | 1,648                                           | 71,202                                                | 1,061,479                                              | 14.7                              |
| 70–71.....         | 0.024406                                                | 70,377                            | 1,718                                           | 69,518                                                | 990,277                                                | 14.1                              |
| 71–72.....         | 0.026261                                                | 68,660                            | 1,803                                           | 67,758                                                | 920,759                                                | 13.4                              |
| 72–73.....         | 0.028341                                                | 66,857                            | 1,895                                           | 65,909                                                | 853,001                                                | 12.8                              |
| 73–74.....         | 0.030901                                                | 64,962                            | 2,007                                           | 63,958                                                | 787,091                                                | 12.1                              |
| 74–75.....         | 0.033906                                                | 62,954                            | 2,135                                           | 61,887                                                | 723,133                                                | 11.5                              |
| 75–76.....         | 0.036600                                                | 60,820                            | 2,226                                           | 59,707                                                | 661,246                                                | 10.9                              |
| 76–77.....         | 0.041183                                                | 58,594                            | 2,413                                           | 57,387                                                | 601,539                                                | 10.3                              |
| 77–78.....         | 0.044732                                                | 56,181                            | 2,513                                           | 54,924                                                | 544,152                                                | 9.7                               |
| 78–79.....         | 0.049570                                                | 53,668                            | 2,660                                           | 52,338                                                | 489,228                                                | 9.1                               |
| 79–80.....         | 0.054043                                                | 51,007                            | 2,757                                           | 49,629                                                | 436,890                                                | 8.6                               |
| 80–81.....         | 0.060898                                                | 48,251                            | 2,938                                           | 46,782                                                | 387,261                                                | 8.0                               |
| 81–82.....         | 0.067558                                                | 45,312                            | 3,061                                           | 43,782                                                | 340,480                                                | 7.5                               |
| 82–83.....         | 0.075351                                                | 42,251                            | 3,184                                           | 40,659                                                | 296,698                                                | 7.0                               |
| 83–84.....         | 0.083380                                                | 39,068                            | 3,257                                           | 37,439                                                | 256,038                                                | 6.6                               |
| 84–85.....         | 0.091957                                                | 35,810                            | 3,293                                           | 34,164                                                | 218,599                                                | 6.1                               |
| 85–86.....         | 0.102670                                                | 32,517                            | 3,339                                           | 30,848                                                | 184,436                                                | 5.7                               |
| 86–87.....         | 0.111462                                                | 29,179                            | 3,252                                           | 27,552                                                | 153,588                                                | 5.3                               |
| 87–88.....         | 0.125449                                                | 25,926                            | 3,252                                           | 24,300                                                | 126,036                                                | 4.9                               |
| 88–89.....         | 0.140746                                                | 22,674                            | 3,191                                           | 21,078                                                | 101,736                                                | 4.5                               |
| 89–90.....         | 0.157367                                                | 19,483                            | 3,066                                           | 17,950                                                | 80,657                                                 | 4.1                               |
| 90–91.....         | 0.175295                                                | 16,417                            | 2,878                                           | 14,978                                                | 62,708                                                 | 3.8                               |
| 91–92.....         | 0.194486                                                | 13,539                            | 2,633                                           | 12,222                                                | 47,730                                                 | 3.5                               |
| 92–93.....         | 0.214860                                                | 10,906                            | 2,343                                           | 9,734                                                 | 35,508                                                 | 3.3                               |
| 93–94.....         | 0.236300                                                | 8,563                             | 2,023                                           | 7,551                                                 | 25,774                                                 | 3.0                               |
| 94–95.....         | 0.258654                                                | 6,539                             | 1,691                                           | 5,694                                                 | 18,223                                                 | 2.8                               |
| 95–96.....         | 0.281738                                                | 4,848                             | 1,366                                           | 4,165                                                 | 12,529                                                 | 2.6                               |
| 96–97.....         | 0.305341                                                | 3,482                             | 1,063                                           | 2,950                                                 | 8,364                                                  | 2.4                               |
| 97–98.....         | 0.329231                                                | 2,419                             | 796                                             | 2,021                                                 | 5,414                                                  | 2.2                               |
| 98–99.....         | 0.353162                                                | 1,622                             | 573                                             | 1,336                                                 | 3,393                                                  | 2.1                               |
| 99–100.....        | 0.376890                                                | 1,049                             | 396                                             | 852                                                   | 2,057                                                  | 2.0                               |
| 100 and older..... | 1.000000                                                | 654                               | 654                                             | 1,206                                                 | 1,206                                                  | 1.8                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 18. Life table for White, non-Hispanic females: United States, 2022**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table18.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table18.xlsx).

| Age (years) | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|-------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|             | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 0-1.....    | 0.004123                                                | 100,000                           | 412                                             | 99,637                                                | 8,010,102                                              | 80.1                              |
| 1-2.....    | 0.000305                                                | 99,588                            | 30                                              | 99,573                                                | 7,910,465                                              | 79.4                              |
| 2-3.....    | 0.000180                                                | 99,557                            | 18                                              | 99,548                                                | 7,810,892                                              | 78.5                              |
| 3-4.....    | 0.000169                                                | 99,539                            | 17                                              | 99,531                                                | 7,711,344                                              | 77.5                              |
| 4-5.....    | 0.000114                                                | 99,523                            | 11                                              | 99,517                                                | 7,611,813                                              | 76.5                              |
| 5-6.....    | 0.000108                                                | 99,511                            | 11                                              | 99,506                                                | 7,512,296                                              | 75.5                              |
| 6-7.....    | 0.000098                                                | 99,500                            | 10                                              | 99,496                                                | 7,412,790                                              | 74.5                              |
| 7-8.....    | 0.000091                                                | 99,491                            | 9                                               | 99,486                                                | 7,313,295                                              | 73.5                              |
| 8-9.....    | 0.000085                                                | 99,482                            | 8                                               | 99,477                                                | 7,213,808                                              | 72.5                              |
| 9-10.....   | 0.000081                                                | 99,473                            | 8                                               | 99,469                                                | 7,114,331                                              | 71.5                              |
| 10-11.....  | 0.000081                                                | 99,465                            | 8                                               | 99,461                                                | 7,014,862                                              | 70.5                              |
| 11-12.....  | 0.000088                                                | 99,457                            | 9                                               | 99,453                                                | 6,915,401                                              | 69.5                              |
| 12-13.....  | 0.000107                                                | 99,448                            | 11                                              | 99,443                                                | 6,815,948                                              | 68.5                              |
| 13-14.....  | 0.000141                                                | 99,438                            | 14                                              | 99,431                                                | 6,716,505                                              | 67.5                              |
| 14-15.....  | 0.000184                                                | 99,424                            | 18                                              | 99,414                                                | 6,617,075                                              | 66.6                              |
| 15-16.....  | 0.000234                                                | 99,405                            | 23                                              | 99,394                                                | 6,517,660                                              | 65.6                              |
| 16-17.....  | 0.000284                                                | 99,382                            | 28                                              | 99,368                                                | 6,418,267                                              | 64.6                              |
| 17-18.....  | 0.000327                                                | 99,354                            | 32                                              | 99,338                                                | 6,318,899                                              | 63.6                              |
| 18-19.....  | 0.000361                                                | 99,321                            | 36                                              | 99,303                                                | 6,219,561                                              | 62.6                              |
| 19-20.....  | 0.000388                                                | 99,285                            | 39                                              | 99,266                                                | 6,120,258                                              | 61.6                              |
| 20-21.....  | 0.000415                                                | 99,247                            | 41                                              | 99,226                                                | 6,020,992                                              | 60.7                              |
| 21-22.....  | 0.000448                                                | 99,206                            | 44                                              | 99,184                                                | 5,921,765                                              | 59.7                              |
| 22-23.....  | 0.000488                                                | 99,161                            | 48                                              | 99,137                                                | 5,822,582                                              | 58.7                              |
| 23-24.....  | 0.000537                                                | 99,113                            | 53                                              | 99,086                                                | 5,723,445                                              | 57.7                              |
| 24-25.....  | 0.000597                                                | 99,060                            | 59                                              | 99,030                                                | 5,624,358                                              | 56.8                              |
| 25-26.....  | 0.000663                                                | 99,001                            | 66                                              | 98,968                                                | 5,525,328                                              | 55.8                              |
| 26-27.....  | 0.000732                                                | 98,935                            | 72                                              | 98,899                                                | 5,426,360                                              | 54.8                              |
| 27-28.....  | 0.000805                                                | 98,863                            | 80                                              | 98,823                                                | 5,327,462                                              | 53.9                              |
| 28-29.....  | 0.000879                                                | 98,783                            | 87                                              | 98,740                                                | 5,228,639                                              | 52.9                              |
| 29-30.....  | 0.000950                                                | 98,696                            | 94                                              | 98,649                                                | 5,129,899                                              | 52.0                              |
| 30-31.....  | 0.001021                                                | 98,602                            | 101                                             | 98,552                                                | 5,031,250                                              | 51.0                              |
| 31-32.....  | 0.001093                                                | 98,502                            | 108                                             | 98,448                                                | 4,932,698                                              | 50.1                              |
| 32-33.....  | 0.001165                                                | 98,394                            | 115                                             | 98,337                                                | 4,834,250                                              | 49.1                              |
| 33-34.....  | 0.001241                                                | 98,279                            | 122                                             | 98,218                                                | 4,735,914                                              | 48.2                              |
| 34-35.....  | 0.001321                                                | 98,157                            | 130                                             | 98,093                                                | 4,637,695                                              | 47.2                              |
| 35-36.....  | 0.001409                                                | 98,028                            | 138                                             | 97,959                                                | 4,539,603                                              | 46.3                              |
| 36-37.....  | 0.001500                                                | 97,890                            | 147                                             | 97,816                                                | 4,441,644                                              | 45.4                              |
| 37-38.....  | 0.001592                                                | 97,743                            | 156                                             | 97,665                                                | 4,343,828                                              | 44.4                              |
| 38-39.....  | 0.001682                                                | 97,587                            | 164                                             | 97,505                                                | 4,246,162                                              | 43.5                              |
| 39-40.....  | 0.001773                                                | 97,423                            | 173                                             | 97,337                                                | 4,148,657                                              | 42.6                              |
| 40-41.....  | 0.001875                                                | 97,250                            | 182                                             | 97,159                                                | 4,051,320                                              | 41.7                              |
| 41-42.....  | 0.001987                                                | 97,068                            | 193                                             | 96,972                                                | 3,954,161                                              | 40.7                              |
| 42-43.....  | 0.002101                                                | 96,875                            | 204                                             | 96,773                                                | 3,857,190                                              | 39.8                              |
| 43-44.....  | 0.002220                                                | 96,672                            | 215                                             | 96,564                                                | 3,760,416                                              | 38.9                              |
| 44-45.....  | 0.002352                                                | 96,457                            | 227                                             | 96,343                                                | 3,663,852                                              | 38.0                              |
| 45-46.....  | 0.002514                                                | 96,230                            | 242                                             | 96,109                                                | 3,567,509                                              | 37.1                              |
| 46-47.....  | 0.002708                                                | 95,988                            | 260                                             | 95,858                                                | 3,471,400                                              | 36.2                              |
| 47-48.....  | 0.002917                                                | 95,728                            | 279                                             | 95,588                                                | 3,375,542                                              | 35.3                              |
| 48-49.....  | 0.003124                                                | 95,449                            | 298                                             | 95,300                                                | 3,279,953                                              | 34.4                              |
| 49-50.....  | 0.003330                                                | 95,151                            | 317                                             | 94,992                                                | 3,184,653                                              | 33.5                              |
| 50-51.....  | 0.003541                                                | 94,834                            | 336                                             | 94,666                                                | 3,089,661                                              | 32.6                              |
| 51-52.....  | 0.003782                                                | 94,498                            | 357                                             | 94,319                                                | 2,994,995                                              | 31.7                              |
| 52-53.....  | 0.004070                                                | 94,141                            | 383                                             | 93,949                                                | 2,900,676                                              | 30.8                              |
| 53-54.....  | 0.004425                                                | 93,757                            | 415                                             | 93,550                                                | 2,806,727                                              | 29.9                              |
| 54-55.....  | 0.004843                                                | 93,342                            | 452                                             | 93,116                                                | 2,713,177                                              | 29.1                              |
| 55-56.....  | 0.005283                                                | 92,890                            | 491                                             | 92,645                                                | 2,620,061                                              | 28.2                              |
| 56-57.....  | 0.005741                                                | 92,400                            | 530                                             | 92,135                                                | 2,527,416                                              | 27.4                              |
| 57-58.....  | 0.006248                                                | 91,869                            | 574                                             | 91,582                                                | 2,435,281                                              | 26.5                              |
| 58-59.....  | 0.006800                                                | 91,295                            | 621                                             | 90,985                                                | 2,343,699                                              | 25.7                              |
| 59-60.....  | 0.007376                                                | 90,674                            | 669                                             | 90,340                                                | 2,252,714                                              | 24.8                              |

**Table 18. Life table for White, non-Hispanic females: United States, 2022—Con.**Spreadsheet version available from: [https://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/74-02/Table18.xlsx](https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/74-02/Table18.xlsx).

| Age (years)        | Probability of<br>dying between<br>ages $x$ and $x + 1$ | Number<br>surviving<br>to age $x$ | Number dying<br>between<br>ages $x$ and $x + 1$ | Person-years lived<br>between<br>ages $x$ and $x + 1$ | Total number of<br>person-years lived<br>above age $x$ | Expectation of<br>life at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
|                    | $q_x$                                                   | $l_x$                             | $d_x$                                           | $L_x$                                                 | $T_x$                                                  | $e_x$                             |
| 60–61.....         | 0.007976                                                | 90,006                            | 718                                             | 89,647                                                | 2,162,374                                              | 24.0                              |
| 61–62.....         | 0.008581                                                | 89,288                            | 766                                             | 88,905                                                | 2,072,727                                              | 23.2                              |
| 62–63.....         | 0.009175                                                | 88,521                            | 812                                             | 88,115                                                | 1,983,823                                              | 22.4                              |
| 63–64.....         | 0.009765                                                | 87,709                            | 856                                             | 87,281                                                | 1,895,707                                              | 21.6                              |
| 64–65.....         | 0.010386                                                | 86,853                            | 902                                             | 86,402                                                | 1,808,426                                              | 20.8                              |
| 65–66.....         | 0.011061                                                | 85,951                            | 951                                             | 85,476                                                | 1,722,024                                              | 20.0                              |
| 66–67.....         | 0.011893                                                | 85,000                            | 1,011                                           | 84,495                                                | 1,636,549                                              | 19.3                              |
| 67–68.....         | 0.012761                                                | 83,989                            | 1,072                                           | 83,453                                                | 1,552,054                                              | 18.5                              |
| 68–69.....         | 0.013788                                                | 82,918                            | 1,143                                           | 82,346                                                | 1,468,601                                              | 17.7                              |
| 69–70.....         | 0.014967                                                | 81,774                            | 1,224                                           | 81,162                                                | 1,386,255                                              | 17.0                              |
| 70–71.....         | 0.016224                                                | 80,550                            | 1,307                                           | 79,897                                                | 1,305,093                                              | 16.2                              |
| 71–72.....         | 0.017555                                                | 79,243                            | 1,391                                           | 78,548                                                | 1,225,196                                              | 15.5                              |
| 72–73.....         | 0.019316                                                | 77,852                            | 1,504                                           | 77,100                                                | 1,146,648                                              | 14.7                              |
| 73–74.....         | 0.021316                                                | 76,349                            | 1,627                                           | 75,535                                                | 1,069,548                                              | 14.0                              |
| 74–75.....         | 0.023727                                                | 74,721                            | 1,773                                           | 73,835                                                | 994,013                                                | 13.3                              |
| 75–76.....         | 0.025916                                                | 72,948                            | 1,891                                           | 72,003                                                | 920,178                                                | 12.6                              |
| 76–77.....         | 0.029643                                                | 71,058                            | 2,106                                           | 70,004                                                | 848,175                                                | 11.9                              |
| 77–78.....         | 0.032498                                                | 68,951                            | 2,241                                           | 67,831                                                | 778,171                                                | 11.3                              |
| 78–79.....         | 0.036203                                                | 66,710                            | 2,415                                           | 65,503                                                | 710,340                                                | 10.6                              |
| 79–80.....         | 0.039495                                                | 64,295                            | 2,539                                           | 63,026                                                | 644,837                                                | 10.0                              |
| 80–81.....         | 0.044631                                                | 61,756                            | 2,756                                           | 60,378                                                | 581,811                                                | 9.4                               |
| 81–82.....         | 0.049732                                                | 59,000                            | 2,934                                           | 57,533                                                | 521,433                                                | 8.8                               |
| 82–83.....         | 0.055457                                                | 56,066                            | 3,109                                           | 54,511                                                | 463,901                                                | 8.3                               |
| 83–84.....         | 0.062038                                                | 52,956                            | 3,285                                           | 51,314                                                | 409,390                                                | 7.7                               |
| 84–85.....         | 0.069131                                                | 49,671                            | 3,434                                           | 47,954                                                | 358,076                                                | 7.2                               |
| 85–86.....         | 0.077860                                                | 46,237                            | 3,600                                           | 44,437                                                | 310,122                                                | 6.7                               |
| 86–87.....         | 0.085052                                                | 42,637                            | 3,626                                           | 40,824                                                | 265,685                                                | 6.2                               |
| 87–88.....         | 0.096421                                                | 39,011                            | 3,761                                           | 37,130                                                | 224,861                                                | 5.8                               |
| 88–89.....         | 0.109025                                                | 35,249                            | 3,843                                           | 33,328                                                | 187,730                                                | 5.3                               |
| 89–90.....         | 0.122922                                                | 31,406                            | 3,861                                           | 29,476                                                | 154,403                                                | 4.9                               |
| 90–91.....         | 0.138151                                                | 27,546                            | 3,805                                           | 25,643                                                | 124,927                                                | 4.5                               |
| 91–92.....         | 0.154730                                                | 23,740                            | 3,673                                           | 21,904                                                | 99,283                                                 | 4.2                               |
| 92–93.....         | 0.172649                                                | 20,067                            | 3,465                                           | 18,335                                                | 77,380                                                 | 3.9                               |
| 93–94.....         | 0.191865                                                | 16,602                            | 3,185                                           | 15,010                                                | 59,045                                                 | 3.6                               |
| 94–95.....         | 0.212301                                                | 13,417                            | 2,848                                           | 11,993                                                | 44,035                                                 | 3.3                               |
| 95–96.....         | 0.233841                                                | 10,569                            | 2,471                                           | 9,333                                                 | 32,043                                                 | 3.0                               |
| 96–97.....         | 0.256334                                                | 8,097                             | 2,076                                           | 7,059                                                 | 22,710                                                 | 2.8                               |
| 97–98.....         | 0.279593                                                | 6,022                             | 1,684                                           | 5,180                                                 | 15,650                                                 | 2.6                               |
| 98–99.....         | 0.303402                                                | 4,338                             | 1,316                                           | 3,680                                                 | 10,471                                                 | 2.4                               |
| 99–100.....        | 0.327523                                                | 3,022                             | 990                                             | 2,527                                                 | 6,791                                                  | 2.2                               |
| 100 and older..... | 1.000000                                                | 2,032                             | 2,032                                           | 4,264                                                 | 4,264                                                  | 2.1                               |

NOTE: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates; see Technical Notes in this report.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Table 19. Estimated life expectancy at birth, in years, by Hispanic origin and race and sex: Death-registration states, 1900–1928, and United States, 1929–2022**

[For selected years, life table values shown are estimates; see Technical Notes in this report. Beginning in 1970, excludes death of nonresidents of the United States; see Technical Notes]

| Area and year              | Non-Hispanic             |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
|----------------------------|--------------------------|------|--------|-----------------------|------|--------|------------------------------------------------|------|--------|--------------------|------|--------|----------------------|------|--------|--------------------|------|--------|
|                            | All races and origins    |      |        | Hispanic <sup>1</sup> |      |        | American Indian and Alaska Native <sup>1</sup> |      |        | Asian <sup>1</sup> |      |        | Black <sup>1,2</sup> |      |        | White <sup>1</sup> |      |        |
|                            | Both sexes               | Male | Female | Both sexes            | Male | Female | Both sexes                                     | Male | Female | Both sexes         | Male | Female | Both sexes           | Male | Female | Both sexes         | Male | Female |
| United States <sup>3</sup> | Single race <sup>4</sup> |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
| 2022 <sup>5</sup>          | 77.5                     | 74.8 | 80.2   | 80.0                  | 77.0 | 82.8   | 67.8                                           | 64.5 | 71.3   | 84.4               | 82.3 | 86.3   | 72.8                 | 69.1 | 76.5   | 77.5               | 75.1 | 80.1   |
| 2021 <sup>5</sup>          | 76.4                     | 73.5 | 79.3   | 77.8                  | 74.6 | 81.1   | 65.6                                           | 62.2 | 69.2   | 83.5               | 81.2 | 85.6   | 71.2                 | 67.6 | 75.0   | 76.7               | 74.0 | 79.5   |
| 2020 <sup>5</sup>          | 77.0                     | 74.2 | 79.9   | 77.9                  | 74.6 | 81.3   | 67.1                                           | 63.8 | 70.7   | 83.6               | 81.1 | 85.9   | 71.5                 | 67.8 | 75.4   | 77.4               | 74.8 | 80.1   |
| 2019 <sup>5</sup>          | 78.8                     | 76.3 | 81.4   | 81.9                  | 79.1 | 84.4   | 71.8                                           | 68.6 | 75.0   | 85.6               | 83.5 | 87.4   | 74.8                 | 71.3 | 78.1   | 78.8               | 76.3 | 81.3   |
| 2018 <sup>5</sup>          | 78.7                     | 76.2 | 81.2   | 81.8                  | 79.1 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.7                 | 71.3 | 78.0   | 78.6               | 76.2 | 81.1   |
| 2020 <sup>5</sup>          | ---                      | ---  | ---    | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | 71.9                 | 68.1 | 75.6   | 77.5               | 74.9 | 80.2   |
| 2019 <sup>5</sup>          | ---                      | ---  | ---    | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.0                 | 71.6 | 78.2   | 78.8               | 76.4 | 81.3   |
| 2018 <sup>5</sup>          | ---                      | ---  | ---    | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.9                 | 71.5 | 78.1   | 78.7               | 76.2 | 81.1   |
| 2017 <sup>5</sup>          | 78.6                     | 76.1 | 81.1   | 81.8                  | 79.1 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.9                 | 71.5 | 78.1   | 78.5               | 76.1 | 81.0   |
| 2016 <sup>5</sup>          | 78.7                     | 76.2 | 81.1   | 81.8                  | 79.1 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.9                 | 71.6 | 78.0   | 78.6               | 76.2 | 81.0   |
| 2015 <sup>5</sup>          | 78.7                     | 76.3 | 81.1   | 81.9                  | 79.3 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.1                 | 71.9 | 78.1   | 78.7               | 76.3 | 81.0   |
| 2014 <sup>5</sup>          | 78.9                     | 76.5 | 81.3   | 82.1                  | 79.4 | 84.5   | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.3                 | 72.2 | 78.2   | 78.8               | 76.5 | 81.2   |
| 2013 <sup>5</sup>          | 78.8                     | 76.4 | 81.2   | 81.9                  | 79.2 | 84.2   | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.1                 | 71.9 | 78.1   | 78.8               | 76.5 | 81.2   |
| 2012 <sup>5</sup>          | 78.8                     | 76.4 | 81.2   | 81.9                  | 79.3 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.1                 | 71.9 | 78.1   | 78.9               | 76.5 | 81.2   |
| 2011 <sup>5</sup>          | 78.7                     | 76.3 | 81.1   | 81.8                  | 79.2 | 84.2   | ---                                            | ---  | ---    | ---                | ---  | ---    | 75.0                 | 71.8 | 77.8   | 78.7               | 76.4 | 81.1   |
| 2010 <sup>5</sup>          | 78.7                     | 76.2 | 81.0   | 81.7                  | 78.8 | 84.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.7                 | 71.5 | 77.7   | 78.8               | 76.4 | 81.1   |
| 2009 <sup>5,6</sup>        | 78.5                     | 76.0 | 80.9   | 81.1                  | 78.4 | 83.5   | ---                                            | ---  | ---    | ---                | ---  | ---    | 74.4                 | 71.0 | 77.4   | 78.7               | 76.3 | 81.0   |
| 2008 <sup>5,6</sup>        | 78.2                     | 75.6 | 80.6   | 80.8                  | 78.0 | 83.3   | ---                                            | ---  | ---    | ---                | ---  | ---    | 73.9                 | 70.5 | 77.0   | 78.4               | 76.0 | 80.7   |
| 2007 <sup>5,6</sup>        | 78.1                     | 75.5 | 80.6   | 80.7                  | 77.8 | 83.2   | ---                                            | ---  | ---    | ---                | ---  | ---    | 73.5                 | 69.9 | 76.7   | 78.4               | 75.9 | 80.8   |
| 2006 <sup>5,6</sup>        | 77.8                     | 75.2 | 80.3   | 80.3                  | 77.5 | 82.9   | ---                                            | ---  | ---    | ---                | ---  | ---    | 73.1                 | 69.5 | 76.4   | 78.2               | 75.7 | 80.6   |
| 2005 <sup>5,6</sup>        | 77.6                     | 75.0 | 80.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 2004 <sup>5,6</sup>        | 77.6                     | 75.0 | 80.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 2003 <sup>5,6</sup>        | 77.2                     | 74.5 | 79.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 2002 <sup>5,6</sup>        | 77.0                     | 74.4 | 79.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 2001 <sup>5,6</sup>        | 77.0                     | 74.3 | 79.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 2000                       | 76.8                     | 74.1 | 79.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1999                       | 76.7                     | 73.9 | 79.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1998                       | 76.7                     | 73.8 | 79.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1997                       | 76.5                     | 73.6 | 79.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1996                       | 76.1                     | 73.1 | 79.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1995                       | 75.8                     | 72.5 | 78.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1994                       | 75.7                     | 72.4 | 79.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1993                       | 75.5                     | 72.2 | 78.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1992                       | 75.8                     | 72.3 | 79.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1991                       | 75.5                     | 72.0 | 78.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1990                       | 75.4                     | 71.8 | 78.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1989                       | 75.1                     | 71.7 | 78.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1988                       | 74.9                     | 71.4 | 78.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1987                       | 74.9                     | 71.4 | 78.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1986                       | 74.7                     | 71.2 | 78.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1985                       | 74.7                     | 71.1 | 78.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1984                       | 74.7                     | 71.1 | 78.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1983                       | 74.6                     | 71.0 | 78.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1982                       | 74.5                     | 70.8 | 78.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1981                       | 74.1                     | 70.4 | 77.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1980                       | 73.7                     | 70.0 | 77.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1979                       | 73.9                     | 70.0 | 77.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1978                       | 73.5                     | 69.6 | 77.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1977                       | 73.3                     | 69.5 | 77.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1976                       | 72.9                     | 69.1 | 76.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1975                       | 72.6                     | 68.8 | 76.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1974                       | 72.0                     | 68.2 | 75.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1973                       | 71.4                     | 67.6 | 75.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1972 <sup>7</sup>          | 71.2                     | 67.4 | 75.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |

See footnotes at end of table.

**Table 19. Estimated life expectancy at birth, in years, by Hispanic origin and race and sex: Death-registration states, 1900–1928, and United States, 1929–2022—Con.**

[For selected years, life table values shown are estimates; see Technical Notes in this report. Beginning in 1970, excludes death of nonresidents of the United States; see Technical Notes]

| Area and year                    | Non-Hispanic                    |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
|----------------------------------|---------------------------------|------|--------|-----------------------|------|--------|------------------------------------------------|------|--------|--------------------|------|--------|----------------------|------|--------|--------------------|------|--------|
|                                  | All races and origins           |      |        | Hispanic <sup>1</sup> |      |        | American Indian and Alaska Native <sup>1</sup> |      |        | Asian <sup>1</sup> |      |        | Black <sup>1,2</sup> |      |        | White <sup>1</sup> |      |        |
|                                  | Both sexes                      | Male | Female | Both sexes            | Male | Female | Both sexes                                     | Male | Female | Both sexes         | Male | Female | Both sexes           | Male | Female | Both sexes         | Male | Female |
| United States <sup>3</sup> —Con. | Bridged race <sup>4</sup> —Con. |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
| 1971.....                        | 71.1                            | 67.4 | 75.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1970.....                        | 70.8                            | 67.1 | 74.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1969.....                        | 70.5                            | 66.8 | 74.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1968.....                        | 70.2                            | 66.6 | 74.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1967.....                        | 70.5                            | 67.0 | 74.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1966.....                        | 70.2                            | 66.7 | 73.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1965.....                        | 70.2                            | 66.8 | 73.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1964.....                        | 70.2                            | 66.8 | 73.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1963 <sup>8</sup> .....          | 69.9                            | 66.6 | 73.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1962 <sup>9</sup> .....          | 70.1                            | 66.9 | 73.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1961.....                        | 70.2                            | 67.1 | 73.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1960.....                        | 69.7                            | 66.6 | 73.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1959.....                        | 69.9                            | 66.8 | 73.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1958.....                        | 69.6                            | 66.6 | 72.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1957.....                        | 69.5                            | 66.4 | 72.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1956.....                        | 69.7                            | 66.7 | 72.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1955.....                        | 69.6                            | 66.7 | 72.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1954.....                        | 69.6                            | 66.7 | 72.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1953.....                        | 68.8                            | 66.0 | 72.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1952.....                        | 68.6                            | 65.8 | 71.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1951.....                        | 68.4                            | 65.6 | 71.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1950.....                        | 68.2                            | 65.6 | 71.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1949.....                        | 68.0                            | 65.2 | 70.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1948.....                        | 67.2                            | 64.6 | 69.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1947.....                        | 66.8                            | 64.4 | 69.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1946.....                        | 66.7                            | 64.4 | 69.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1945.....                        | 65.9                            | 63.6 | 67.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1944.....                        | 65.2                            | 63.6 | 66.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1943.....                        | 63.3                            | 62.4 | 64.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1942.....                        | 66.2                            | 64.7 | 67.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1941.....                        | 64.8                            | 63.1 | 66.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1940.....                        | 62.9                            | 60.8 | 65.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1939.....                        | 63.7                            | 62.1 | 65.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1938.....                        | 63.5                            | 61.9 | 65.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1937.....                        | 60.0                            | 58.0 | 62.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1936.....                        | 58.5                            | 56.6 | 60.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1935.....                        | 61.7                            | 59.9 | 63.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1934.....                        | 61.1                            | 59.3 | 63.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1933.....                        | 63.3                            | 61.7 | 65.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1932.....                        | 62.1                            | 61.0 | 63.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1931.....                        | 61.1                            | 59.4 | 63.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1930.....                        | 59.7                            | 58.1 | 61.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1929.....                        | 57.1                            | 55.8 | 58.7   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |

**Table 19. Estimated life expectancy at birth, in years, by Hispanic origin and race and sex: Death-registration states, 1900–1928, and United States, 1929–2022—Con.**

[For selected years, life table values shown are estimates; see Technical Notes in this report. Beginning in 1970, excludes death of nonresidents of the United States; see Technical Notes]

| Area and year             | Non-Hispanic                    |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
|---------------------------|---------------------------------|------|--------|-----------------------|------|--------|------------------------------------------------|------|--------|--------------------|------|--------|----------------------|------|--------|--------------------|------|--------|
|                           | All races and origins           |      |        | Hispanic <sup>1</sup> |      |        | American Indian and Alaska Native <sup>1</sup> |      |        | Asian <sup>1</sup> |      |        | Black <sup>1,2</sup> |      |        | White <sup>1</sup> |      |        |
|                           | Both sexes                      | Male | Female | Both sexes            | Male | Female | Both sexes                                     | Male | Female | Both sexes         | Male | Female | Both sexes           | Male | Female | Both sexes         | Male | Female |
| Death-registration states | Bridged race <sup>4</sup> —Con. |      |        |                       |      |        |                                                |      |        |                    |      |        |                      |      |        |                    |      |        |
| 1928.....                 | 56.8                            | 55.6 | 58.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1927.....                 | 60.4                            | 59.0 | 62.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1926.....                 | 56.7                            | 55.5 | 58.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1925.....                 | 59.0                            | 57.6 | 60.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1924.....                 | 59.7                            | 58.1 | 61.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1923.....                 | 57.2                            | 56.1 | 58.5   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1922.....                 | 59.6                            | 58.4 | 61.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1921.....                 | 60.8                            | 60.0 | 61.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1920.....                 | 54.1                            | 53.6 | 54.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1919.....                 | 54.7                            | 53.5 | 56.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1918.....                 | 39.1                            | 36.6 | 42.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1917.....                 | 50.9                            | 48.4 | 54.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1916.....                 | 51.7                            | 49.6 | 54.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1915.....                 | 54.5                            | 52.5 | 56.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1914.....                 | 54.2                            | 52.0 | 56.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1913.....                 | 52.5                            | 50.3 | 55.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1912.....                 | 53.5                            | 51.5 | 55.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1911.....                 | 52.6                            | 50.9 | 54.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1910.....                 | 50.0                            | 48.4 | 51.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1909.....                 | 52.1                            | 50.5 | 53.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1908.....                 | 51.1                            | 49.5 | 52.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1907.....                 | 47.6                            | 45.6 | 49.9   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1906.....                 | 48.7                            | 46.9 | 50.8   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1905.....                 | 48.7                            | 47.3 | 50.2   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1904.....                 | 47.6                            | 46.2 | 49.1   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1903.....                 | 50.5                            | 49.1 | 52.0   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1902.....                 | 51.5                            | 49.8 | 53.4   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1901.....                 | 49.1                            | 47.6 | 50.6   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |
| 1900.....                 | 47.3                            | 46.3 | 48.3   | ---                   | ---  | ---    | ---                                            | ---  | ---    | ---                | ---  | ---    | ---                  | ---  | ---    | ---                | ---  | ---    |

--- Data not available.

... Category not applicable.

<sup>1</sup>Life tables are based on death rates that have been adjusted for race and Hispanic-origin misclassification on death certificates; see Technical Notes.

<sup>2</sup>Before 1970, data for the Black population are not available. Data shown for 1900–1969 are for the non-White population. See Technical Notes.

<sup>3</sup>Includes Alaska in 1959 and Hawaii in 1960.

<sup>4</sup>Life expectancies by single-race categories are not completely comparable with life expectancies by bridged-race categories and should be interpreted accounting for the change from bridged- to single-race categories.

<sup>5</sup>Life expectancies for 2001–2022 were calculated using a revised methodology described in Technical Notes.

<sup>6</sup>Life expectancies for 2001–2009 have been re-estimated using new intercensal population estimates and may differ from data previously published; see Technical Notes.

<sup>7</sup>Deaths based on a 50% sample.

<sup>8</sup>Figures by race exclude data for residents of New Jersey; see Technical Notes.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

## Technical Notes

### The U.S. life table program

The National Center for Health Statistics prepares complete period life tables for the U.S. population annually. Annual final life tables are based on a complete count of all reported deaths and postcensal population estimates. Beginning with the first decennial census (1900) through the 2010 census, decennial life tables were produced for every decade. These were complete period life tables based on decennial census data and final deaths for a 3-year period around the census year. Between 1900 and 1945, the decennial series was the only set of official life tables produced. This series also included state-level complete life tables for the decennial periods 1939–1941 to 1999–2001. The decennial life tables series was discontinued due to the development of new methodologies that improved estimation of mortality at the older ages in the annual life tables series and the addition of an annual series of complete state-level life tables (14). The annual complete state-level life tables series started with data year 2018 (15).

Available since 1945, the annual life tables are based on deaths occurring during the calendar year and on midyear postcensal population estimates provided by the U.S. Census Bureau. From 1945 to 1996, the annual life tables were abridged life tables, closed at age 85 and older, and were constructed by reference to a standard table (4). Beginning with 1997 mortality data, the annual abridged life tables were replaced with complete life tables expanded to ages 100 and older based on a methodology similar to that of the 1989–1991 decennial life tables. The methodology was revised for data years 2000–2007 using a methodology similar to that of the 1999–2001 decennial life tables (16). Beginning with data year 2008, the life table methodology was revised with a new smoothing technique applied to death rates in the oldest ages (17).

The methodology used to estimate the 2008–2022 life tables is different from that used to estimate the 2000–2007 life tables with respect to the technique used to estimate the probabilities of death for ages older than 65. The methodology used to produce the life tables for 2008–2022 does not model the probabilities of death beginning at age 66, as was done for data years 2000–2007, but rather at ages above 85 or so (the exact ages at which smoothing techniques are used depends on the specific racial and ethnic population). Research into the methodology developed and used for the 1999–2001 decennial life tables and applied to the annual life tables has revealed that it is not necessary to model (or smooth) the probabilities of death beginning at age 66. The observed blended vital statistics and Medicare data for ages 66–85 are robust enough and do not require additional smoothing (16). A full description of the methodology used to estimate the 2022 life tables is provided below. See “United States Life Tables, 2005” (16) for a detailed description of the methodology used for data years 2000–2007.

Beginning with 2006 mortality data, life tables by Hispanic origin and race, including Hispanic (irrespective of race), Black non-Hispanic, and White non-Hispanic, were added to the annual life table program. Before this time, concerns over data limitations

such as racial and ethnic misclassification on U.S. death certificates and lack of Medicare data for older populations other than the White and Black populations (regardless of Hispanic origin) prevented the estimation of life tables for the Hispanic-origin population. Research that identified and quantified these data limitations resulted in reliable methodological strategies to address these data problems (8–10,17). Beginning with 2019 mortality data, the annual life table program was expanded to include the American Indian and Alaska Native non-Hispanic and Asian non-Hispanic populations.

### Revised intercensal life table values

Life table values for 1960–1969, 1970–1979, and 1980–1989 were constructed using the U.S. decennial life tables for 1959–1961, 1969–1971, and 1979–1981, respectively, as the standard tables. The life table values for years before 1989 appearing in this report are based on revised intercensal estimates of the populations for those years. As a result, the life table values for these years may differ from the life table values for those years published in Vital Statistics of the United States for 1989 and earlier years (<https://www.cdc.gov/nchs/products/vsus.htm>).

Life table values for 1991–1999 presented in this report are based on postcensal population estimates enumerated in the 1990 decennial census. Life table values for 2001–2009 presented in this report are based on revised intercensal population estimates based on the 2010 decennial census and the revised methodology used to estimate the 2008–2022 life tables. As a result, the values may differ from those previously published in annual final mortality and life table reports. The revised intercensal life tables for 2001–2009 can be accessed by links provided under each of the annual life table reports in: [https://www.cdc.gov/nchs/products/life\\_tables.htm](https://www.cdc.gov/nchs/products/life_tables.htm).

### Geographic coverage

The geographic areas covered in life tables before 1929–1931 were limited to death-registration areas. Life tables for 1900–1902 and 1909–1911 were constructed using mortality data from the 1900 death-registration states (10 states and the District of Columbia), and tables for 1919–1921 used mortality data from the 1920 death-registration states (34 states and the District of Columbia). The tables for 1929–1931 through 1958 cover the coterminous United States. Decennial life table values for the 3-year period 1959–1961 were calculated from data that include both Alaska and Hawaii for each year. Data for each year shown in Table 19 include Alaska beginning in 1959 and Hawaii beginning in 1960. However, the inclusion of these two states does not materially affect life table values.

### New Jersey data, 1962–1964

The life tables for 1962 and 1963 for the six population groups involving race (White and Black, regardless of Hispanic origin) do not include data from New Jersey, which omitted the item on race from its certificates of live birth, death, and fetal death in use at the beginning of 1962. The item was restored

during the latter part of 1962. However, the certificate revision without this item was used for most of 1962, as well as for 1963. For computing vital rates, populations by age, race, and sex (excluding New Jersey) were estimated to obtain comparable denominators. About 7% of the New Jersey death records for 1964 did not contain the race designation. When the records were being electronically processed for this state, the “race not stated” deaths were allocated proportionally to either White or Black (regardless of Hispanic origin).

## Nonresidents

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

## Data for calculating life table functions

The data used to prepare the U.S. life tables include final death counts from the National Vital Statistics System, population estimates from the U.S. Census Bureau, and death and population counts for Medicare beneficiaries ages 66–99 from the Centers for Medicare & Medicaid Services.

## Vital statistics data

Death counts used for computing the life tables presented in this report are final numbers of deaths for 2022 collected from death certificates filed in state vital statistics offices and reported to the National Center for Health Statistics as part of the National Vital Statistics System. Hispanic origin and race are reported separately on the death certificate.

Beginning with the 2018 data year, all 50 states and the District of Columbia reported deaths based on the 2003 revision of the U.S. Standard Certificate of Death for the entire year (18). The revision is based on the 1997 Office of Management and Budget standards (5). The 1997 standards allow people to report more than one race and increased the race choices from four to five by separating the Asian and Pacific Islander groups. The Hispanic category did not change, remaining consistent with previous reports.

The Hispanic-origin and race groups in this report follow the 1997 standards and differ from the race categories used in previous reports. The new categories are Hispanic, American Indian and Alaska Native non-Hispanic single race, Asian non-Hispanic single race, Black non-Hispanic single race, and White non-Hispanic single race. From 2003 through 2017, some deaths were reported using the 1989 certificate revision that allowed the reporting of only one race (6). During those years, multiple-race data were bridged to single-race categories. Use of the bridged-race process was discontinued in 2018 when all states collected data on race according to 1997 Office of Management and Budget guidelines for the full data year. The Hispanic-origin category was not affected by the revised standards.

## Census population data

The population data used to estimate the life tables shown in this report are postcensal population estimates based on the Blended Base created by the U.S. Census Bureau to produce

post-2020 census population estimates. The Blended Base consists of the blend of Vintage 2020 postcensal population estimates, based on the April 1, 2010, decennial census; 2020 Demographic Analysis Estimates; and 2020 Census Edited File (CEF) (<https://www2.census.gov/programs-surveys/popest/technical-documentation/methodology/2020-2022/methods-statement-v2022.pdf>).

To produce death rates for 2000–2017, the reported population data for multiple-race people had to be bridged back to single-race categories. Additionally, the 2010 census counts were modified for consistency with the 1977 Office of Management and Budget race categories, that is, to report the data for Asian and Native Hawaiian or Other Pacific Islander people as a combined category (Asian or Pacific Islander) and to reflect age as of the census reference date (6). The procedures used to produce the bridged-race populations are described elsewhere (19).

## Medicare data

Medicare data are considered more accurate than vital statistics and census data at the oldest ages because Medicare enrollees must have proof of age to enroll (20,21). However, the reliability of Medicare data beyond age 100 declines because of the small percentage of people who enrolled in the early years of the Medicare program and for whom it was not possible to verify exact age (21,20). Further, the Medicare race and ethnicity classification system makes it impossible to correctly identify the Hispanic (irrespective of race), American Indian and Alaska Native, Asian, or Native Hawaiian and Other Pacific Islander populations (regardless of Hispanic origin) (21). It is, however, possible to use Medicare data to estimate old-age mortality for both the White and Black race groups, regardless of Hispanic origin, as has been done traditionally, and to estimate old-age mortality for the non-Hispanic segments of these populations (14). As a result, data from the Medicare program are used to supplement vital statistics and census data for ages 66–99 for the total population and the Black non-Hispanic and White non-Hispanic populations presented here (14).

To estimate death rates for the Medicare total, Black non-Hispanic, and White non-Hispanic populations in 2022, age-specific numbers of deaths and population counts by sex and race for the population ages 66–99 from the 2022 Medicare file were used. Centers for Medicare and Medicaid Services creates this data file for the Social Security Administration, which shares the data with the National Center for Health Statistics under a special agreement. The 2022 file contains 2022 midyear Medicare population counts (June 30, 2022) and calendar-year Medicare death counts (January 1 through December 31, 2022). Age for both deaths and midyear population counts is calculated as age at last birthday.

## Preliminary adjustment of the data

### Adjustments for unknown age

An adjustment is made to account for the small proportion of deaths each year for which age is not reported on the death certificate. The number of deaths in each age category is adjusted proportionally to account for those with not-stated ages. The following factor ( $F$ ) is used to make the adjustment.  $F$  is calculated for the total and for each sex group within a racial and ethnic population for which life tables are constructed:

$$F = \frac{D}{D^a} \quad [1]$$

where  $D$  is the total number of deaths and  $D^a$  is the total number of deaths for which age is stated.  $F$  is then applied by multiplying it by the number of deaths in each age group. Table 1 shows values for  $F$  by sex used to adjust mortality data for the total, Hispanic, American Indian and Alaska Native non-Hispanic, Asian non-Hispanic, Black non-Hispanic, and White non-Hispanic populations in 2022.

### Adjustment for misclassification of Hispanic origin and race on death certificates

Two data sources were used to adjust for Hispanic-origin and race misclassification on death certificates. For the Hispanic, Asian non-Hispanic, Black non-Hispanic, and White non-Hispanic populations, the National Longitudinal Mortality Study (NLMS) was used to produce classification ratios (or correction factors) to adjust observed sex and age-specific death rates for misclassification on death certificates (8). The

NLMS consists of a series of Current Population Surveys (CPS) (1979–2011) linked to vital statistics mortality data through the National Death Index (NDI) (8). For the American Indian and Alaska Native non-Hispanic population, an extract of the 2010 CEF–Census Unedited File (CUF) Match File containing records for people classified by race as American Indian and Alaska Native alone or in combination with another race in the 2010 decennial census was linked to NDI to identify decedents for the period April 1, 2010, to December 31, 2011. The resulting 34,366 CEF–CUF Match American Indian and Alaska Native Extract—Mortality Linked Data decedent records were used to estimate classification ratios to correct for race and Hispanic-origin misclassification on death certificates for the American Indian and Alaska Native non-Hispanic population (10).

The classification ratios consist of a comparison of self-reported Hispanic origin and race on Current Population Surveys or the decennial census, with Hispanic origin and race reported on the death certificates of the samples of decedents in the National Longitudinal Mortality Study who died during 1999–2011 and decedents in the Census Edited File–Census Unedited File Match American Indian and Alaska Native Extract who died between April 1, 2010, and December 31, 2011 (8,10). Linked records are used to estimate sex-age-specific ratios of survey or census Hispanic-origin and race counts to death certificate counts (8,10).

The survey or census death certificate ratio, or “classification ratio,” is the ratio of the count (weighted in the case of Current Population Surveys) of self-reported race and ethnicity on the survey or census to the count (weighted in the case of Current Population Surveys) of the same racial or ethnic category on the death certificates of the sample of the National Longitudinal Mortality Study (Census Edited File–Census Unedited File Match American Indian and Alaska Native Extract) decedents described previously. It can be interpreted as the net difference in assignment of a specific Hispanic-origin and race category between the two classification systems and can be used as a correction factor for Hispanic-origin and race misclassification (8,10). It is assumed that the race and ethnicity reported by a survey or census respondent is more reliable than proxy reporting of race and ethnicity by a funeral director who has little personal knowledge of the decedent. Also, the 1997 Office of Management and Budget standards mandate that self-identification should be the standard used for the collection and recording of race and ethnicity information (5).

Classification ratios discussed previously are used to adjust the age-specific number of deaths for ages 1–95 and older for the total Hispanic, American Indian and Alaska Native non-Hispanic, Asian non-Hispanic, Black non-Hispanic, and White non-Hispanic populations, and by sex for each group, as follows:

$${}_nD_x = {}_nD_x^F \cdot {}_nCR_x \quad [2]$$

where  ${}_nD_x^F$  is the age-specific number of deaths adjusted for unknown age as described previously,  ${}_nCR_x$  are the sex- and age-specific classification ratios used to correct for the misclassification of Hispanic origin and race on death certificates,

**Table 1. Values for  $F$  used to adjust for not-stated age based on 2022 mortality data**

| Hispanic origin and race and sex        | Total deaths | Total deaths for which age was not stated | $F$        |
|-----------------------------------------|--------------|-------------------------------------------|------------|
| Total .....                             | 3,279,857    | 103                                       | 1.00003140 |
| Male .....                              | 1,719,250    | 87                                        | 1.00005061 |
| Female .....                            | 1,560,607    | 16                                        | 1.00001025 |
| Hispanic .....                          | 275,684      | 10                                        | 1.00003627 |
| Male .....                              | 155,240      | 9                                         | 1.00005798 |
| Female .....                            | 120,444      | 1                                         | 1.00000830 |
| Non-Hispanic:                           |              |                                           |            |
| American Indian and Alaska Native ..... | 23,613       | 0                                         | 1.00000000 |
| Male .....                              | 12,721       | 0                                         | 1.00000000 |
| Female .....                            | 10,892       | 0                                         | 1.00000000 |
| Asian .....                             | 89,591       | 0                                         | 1.00000000 |
| Male .....                              | 46,137       | 0                                         | 1.00000000 |
| Female .....                            | 43,454       | 0                                         | 1.00000000 |
| Black .....                             | 411,934      | 5                                         | 1.00001214 |
| Male .....                              | 219,538      | 5                                         | 1.00002278 |
| Female .....                            | 192,396      | 0                                         | 1.00000000 |
| White .....                             | 2,448,093    | 39                                        | 1.00001593 |
| Male .....                              | 1,267,526    | 31                                        | 1.00002446 |
| Female .....                            | 1,180,567    | 8                                         | 1.00000678 |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

and  ${}_nD_x$  are the final age-specific counts of death adjusted for age and Hispanic-origin and race misclassification. Table II shows values of the sex- and age-specific classification ratios,  ${}_nCR_x$ , by Hispanic origin and race.

Because classification ratios for infant deaths are unreliable due to small sample sizes or counts, corrections for racial and ethnic misclassification of infant deaths are addressed by using infant death counts and live birth counts from the 2021 and 2022 linked birth/infant death data files rather than the traditional birth and death data files (22,23). In the linked file, each infant death record is linked to its corresponding birth record so that the race and ethnicity of the mother reported on the birth record can be ascribed to the infant death record. As a result, race- and ethnicity-specific infant mortality rates estimated with the linked file do not have racial and ethnic discrepancies between the numerator and denominator of the rate. A ratio of infant mortality rates based on the traditional birth and death data files to infant mortality rates based on the linked birth/infant death data file shows that using the traditional files overestimates the infant mortality rate by 4.0% for both Hispanic and Black non-Hispanic infants; and underestimates the infant mortality rate by 19.0% for Asian non-Hispanic, 10.0% for American Indian and Alaska Native non-Hispanic, and 3.0% for White non-Hispanic infants (see ratios for age 0 in Table II). Because the probability of death at age 0 used to calculate the life table uses live births in the denominator (procedure described in “Calculation of  $q_x$  at age 0”), it is preferable to use the linked birth/infant death data file.

Interpolation of  $P_x$  and  $D_x$

Anomalies—both random and those associated with reporting age at death—can be problematic when using vital statistics and census data by single years of age to estimate the probability of death (1,3). Graduation techniques are often used to eliminate these anomalies and to derive a smooth curve by age. Beers’ ordinary minimized fifth difference formula is used to obtain smoothed values of population counts ( $P_x$ ) and death counts ( $D_x$ ) from 5-year age groupings of  ${}_nP_x$  from age 0 to 99 and  ${}_nD_x$  from age 5 to 99, and where  ${}_nD_x$  has first been adjusted for not-reported age and Hispanic-origin and race misclassification on the death certificate (see reference 24 for details on the application of Beers’ method).

Calculation of the probability of dying ( $q_x$ )

The first step in calculating a complete period life table is the estimation of the age-specific probability of dying,  $q_x$ , which is derived from the age-specific death rate,  $m_x$  (3,16). In the life table cohort,

$$m_x = \frac{d_x}{L_x}$$

where  $d_x$  is the number of deaths occurring between ages  $x$  and  $x + 1$ , and  $L_x$  is the number of person-years lived by the life table cohort between ages  $x$  and  $x + 1$ . The conversion of the age-specific death rate,  $m_x$ , to the age-specific probability of death,  $q_x$ , is as follows:

$$q_x = \frac{m_x}{1 + (1 - a_x)m_x} \tag{3}$$

Table II. Classification ratios, by Hispanic origin and race, age, and sex

| Age (years)    | Non-Hispanic          |        |         |                                                |        |        |                      |         |         |                    |        |         |                    |        |        |
|----------------|-----------------------|--------|---------|------------------------------------------------|--------|--------|----------------------|---------|---------|--------------------|--------|---------|--------------------|--------|--------|
|                | Hispanic <sup>1</sup> |        |         | American Indian and Alaska Native <sup>1</sup> |        |        | Asian <sup>1,2</sup> |         |         | Black <sup>1</sup> |        |         | White <sup>1</sup> |        |        |
|                | Total                 | Male   | Female  | Total                                          | Male   | Female | Total                | Male    | Female  | Total              | Male   | Female  | Total              | Male   | Female |
| All ages       | 1.0329                | 1.0362 | 1.0294  | 1.3354                                         | 1.3488 | 1.3197 | 1.0331               | 1.0480  | 1.0117  | 1.0047             | 1.0041 | 1.0053  | 0.9995             | 0.9993 | 0.9997 |
| 0 <sup>3</sup> | 1.0389                | 1.0321 | 1.0493  | 0.9007                                         | 0.8703 | 0.9467 | 0.8120               | 0.8165  | 0.8077  | 1.0404             | 1.0525 | 1.0261  | 0.9712             | 0.9693 | 0.9734 |
| 1–14           | 0.9905                | 0.9659 | *1.0299 | 1.1243                                         | 1.1546 | 1.0833 | *0.8655              | *0.8426 | *1.0000 | 1.0266             | 0.9379 | *1.1751 | 0.9918             | 1.0755 | 0.8770 |
| 15–24          | 0.9668                | 0.9325 | 1.0604  | 1.1462                                         | 1.1201 | 1.2190 | 1.2285               | *1.4276 | *0.9721 | 1.0248             | 1.0215 | 1.0343  | 0.9976             | 1.0019 | 0.9869 |
| 25–34          | 1.0354                | 1.0401 | 1.0232  | 1.1375                                         | 1.1557 | 1.1033 | 1.1527               | 1.0967  | *1.2648 | 0.9855             | 0.9770 | 1.0008  | 1.0021             | 1.0034 | 0.9994 |
| 35–44          | 1.0434                | 1.0645 | 1.0066  | 1.1799                                         | 1.1815 | 1.1772 | 1.0338               | 1.0459  | 1.0125  | 1.0062             | 1.0073 | 1.0048  | 0.9980             | 0.9997 | 0.9951 |
| 45–54          | 1.0584                | 1.0372 | 1.0953  | 1.3915                                         | 1.3913 | 1.3916 | 1.0699               | 1.1123  | 1.0113  | 1.0002             | 1.0019 | 0.9982  | 0.9969             | 0.9965 | 0.9976 |
| 55–64          | 1.0571                | 1.0517 | 1.0659  | 1.4281                                         | 1.4547 | 1.3917 | 1.0274               | 1.0694  | 0.9784  | 1.0003             | 0.9965 | 1.0046  | 0.9994             | 0.9992 | 0.9997 |
| 65–74          | 1.0295                | 1.0485 | 1.0072  | 1.3654                                         | 1.4244 | 1.2980 | 1.0845               | 1.0841  | 1.0850  | 1.0062             | 1.0055 | 1.0070  | 0.9967             | 0.9967 | 0.9966 |
| 75–84          | 1.0192                | 1.0188 | 1.0196  | 1.3099                                         | 1.3367 | 1.2852 | 1.0305               | 1.0328  | 1.0281  | 1.0057             | 1.0057 | 1.0058  | 1.0004             | 1.0003 | 1.0004 |
| 85–94          | 1.0208                | 1.0313 | 1.0137  | 1.3845                                         | 1.3807 | 1.3870 | 0.9962               | 0.9983  | 0.9944  | 1.0110             | 1.0155 | 1.0086  | 1.0008             | 1.0007 | 1.0009 |
| 95 and over    | 1.0732                | 1.0509 | 1.0842  | 1.3951                                         | 1.3043 | 1.4240 | 0.9755               | 1.0238  | 0.9405  | 0.9980             | 0.9872 | 0.9954  | 1.0005             | 0.9995 | 1.0008 |

\* Ratio does not meet National Center for Health Statistics standards of reliability because either the unweighted number of Current Population Survey deaths, the unweighted number of death certificate deaths, or both are based on fewer than 20 deaths.

<sup>1</sup>Classification ratios for the Hispanic, Asian non-Hispanic, Black non-Hispanic, and White non-Hispanic populations are based on the National Longitudinal Mortality Study data (see [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_172.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_172.pdf)). Classification ratios for the American Indian and Alaska Native non-Hispanic population are based on the census American Indian and Alaska Native-Extract Mortality Linked Data (see <https://www.cdc.gov/nchs/data/nvsr/nvsr70/NVSR70-12.pdf>).

<sup>2</sup>Classification ratios for the Asian non-Hispanic population were estimated based on data for the Asian non-Hispanic and Pacific Islander non-Hispanic populations combined due to data availability. However, the ratios reflect misclassification predominantly among the Asian non-Hispanic population because it makes up more than 95% of the Asian non-Hispanic and Pacific Islander non-Hispanic populations combined.

<sup>3</sup>Ratios for age 0 are estimated as the ratio of infant mortality rates based on the traditional death and birth files to the infant mortality rates based on the 2022 linked birth/infant death data file. They are only shown for illustrative purposes; see report text for details.

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

where  $a_x$  is the fraction of the number of person-years lived in the age interval by members of the life table cohort who died in the interval. When the age interval is 1 year, except at infancy,  $a_x = 1/2$ ; in other words, deaths occur on average midway through the age interval. As a result,

$$q_x = \frac{m_x}{1 + \frac{1}{2}m_x} \quad [4]$$

Because the complete period life table is based on the age-specific death rates of a current population observed for a specific calendar year, the life table death rate is equivalent to the observed death rates of the current population:

$$m_x = \frac{d_x}{L_x} = M_x = \frac{D_x}{P_x}$$

where  $D_x$  is the Beers' smoothed number of deaths adjusted for not-stated age and Hispanic-origin and race misclassification on the death certificate (for the Hispanic and American Indian and Alaska Native, Asian, Black, and White non-Hispanic race groups), and  $P_x$  is the Beers' smoothed population at risk of dying between ages  $x$  and  $x + 1$ . Then,

$$q_x = \frac{M_x}{1 + \frac{1}{2}M_x} = \frac{D_x}{P_x + \frac{1}{2}D_x} \quad [5]$$

This procedure is used to estimate vital statistics age-specific probabilities of death for ages 1–99.

### Calculation of $q_x$ at age 0

The higher mortality observed in infancy is associated with a high concentration of deaths occurring at the beginning of the age interval rather than in the middle. As a result, it is best to assign deaths to the appropriate birth cohorts whenever possible. Consequently, the probability of death at birth,  $q_0$ , is calculated using a birth cohort method that uses a separation factor ( $f$ ) defined as the proportion of infant deaths in year  $t$  occurring to infants born in the previous year ( $t - 1$ ). The value  $f$  is estimated by categorizing infant deaths by date of birth. The probability of death is then calculated as:

$$q_0 = \frac{D_0(1-f)}{B^t} + \frac{D_0(f)}{B^{t-1}} \quad [6]$$

where  $D_0$  is the number of infant deaths adjusted for not-stated age in 2022,  $B^t$  is the number of live births in 2022, and  $B^{t-1}$  is the number of live births in 2021. Table III shows separation factors and numbers of births for 2021 and 2022.

### Probabilities of dying at the oldest ages for the total, Black non-Hispanic, and White non-Hispanic populations

Medicare data are used to supplement vital statistics data for the estimation of  $q_x$  at the oldest ages. These data are more accurate because proof of age is required for enrollment in the

Medicare program. Medicare data are used here to estimate the probability of dying for ages 66 and older for the total, Black non-Hispanic, and White non-Hispanic populations.

The method described in this section consists of the following steps. First, vital statistics and Medicare death rates are blended in the age range 66–99. Second, a logistic model is used to smooth the blended death rates in the age range 85–99 and predict death rates for ages 100–120. Third, final resulting death rates,  $M_x$ , are converted to  $q_x$ .

For ages 66–94, vital statistics death rates,  $M_x^V$ , and Medicare death rates,  $M_x^M$ , are blended with a weighting process that gives gradually declining weight to vital statistics data and gradually increasing weight to Medicare data. For ages 95–99,  $M_x^M$  is used exclusively. Blended  $M_x$  is obtained as follows:

$$M_x = \frac{1}{30} [(95 - x)M_x^V + (x - 65)M_x^M] \quad [7]$$

when  $x = 66, \dots, 94$

$$\text{and } M_x = M_x^M$$

when  $x = 95, \dots, 99$ .  $M_x^M$  is estimated as follows:

$$M_x^M = \frac{D_x^M}{P_x^M}$$

where  $D_x^M$  is the age-specific Medicare death count, and  $P_x^M$  is the age-specific Medicare midyear population count.

A logistic model proposed by Kannisto is then used to smooth  $M_x$  in the age range 85–99 and predict  $M_x$  in the age range 100–120 (25). The start of the modeled age range varies by race- and ethnicity-specific population because it is a function of the age at which the rate of change in the age-specific death rates peaks. Currently, the rate of change in the age-specific death rate rises steadily up to about ages 80–85 and then begins to decline. As a result, it is difficult to model a large age span, such as 65–100, with one simple model without over smoothing and consequently altering the underlying mortality pattern observed in the population of interest (26). Further, the observed data for the age range 65–85 or so is reliable and robust, as indicated by the very close similarity between vital statistics and Medicare death rates, so it is unnecessary to model (smooth) the entire age span (65–100).

The Kannisto model is a simple form of a logistic model in which the logit of  $u_x$  (or the natural log of the odds of  $u_x$ ) is a linear function of age,  $x$  (25). It is expressed as:

$$\ln\left[\frac{u_x}{1-u_x}\right] = \ln(\alpha) + \beta x \quad [8]$$

where  $u_x$ , the force of mortality (or the instantaneous death rate), is defined as:

$$u_x = \frac{\alpha e^{\beta x}}{1 + \alpha e^{\beta x}}$$

Because  $u_x$  is not directly observed but is closely approximated by  $m_x$ , and  $m_x = M_x$ , then the logit of  $M_x$  is modeled instead. A maximum-likelihood generalized linear-model

**Table III. Births in 2021 and 2022, deaths in 2022 of infants born in 2021 and 2022, and separation factors, by Hispanic origin and race and sex: United States**

| Births, deaths, and separation factors | Non-Hispanic |           |           |            |         |         |                                   |        |        |            |         |         |            |         |         |            |         |         |
|----------------------------------------|--------------|-----------|-----------|------------|---------|---------|-----------------------------------|--------|--------|------------|---------|---------|------------|---------|---------|------------|---------|---------|
|                                        | Total        |           |           | Hispanic   |         |         | American Indian and Alaska Native |        |        | Asian      |         |         | Black      |         |         | White      |         |         |
|                                        | Both sexes   | Male      | Female    | Both sexes | Male    | Female  | Both sexes                        | Male   | Female | Both sexes | Male    | Female  | Both sexes | Male    | Female  | Both sexes | Male    | Female  |
| Births                                 |              |           |           |            |         |         |                                   |        |        |            |         |         |            |         |         |            |         |         |
| 2021.....                              | 3,664,292    | 1,873,416 | 1,790,876 | 885,916    | 450,807 | 435,109 | 26,124                            | 13,343 | 12,781 | 213,813    | 110,083 | 103,730 | 517,889    | 262,679 | 255,210 | 1,887,656  | 968,370 | 919,286 |
| 2022.....                              | 3,667,758    | 1,874,446 | 1,793,312 | 937,421    | 477,401 | 460,020 | 25,721                            | 13,063 | 12,658 | 218,994    | 112,726 | 106,268 | 511,439    | 259,987 | 251,452 | 1,840,739  | 942,920 | 897,819 |
| Deaths in 2022                         |              |           |           |            |         |         |                                   |        |        |            |         |         |            |         |         |            |         |         |
| Infants born in 2021.....              | 2,692        | 1,524     | 1,157     | 518        | 298     | 218     | 30                                | 22     | 8      | 85         | 56      | 29      | 864        | 466     | 398     | 1,057      | 609     | 445     |
| Infants born in 2022.....              | 17,861       | 9,847     | 8,025     | 4,063      | 2,231   | 1,834   | 203                               | 116    | 87     | 683        | 380     | 303     | 4,709      | 2,603   | 2,106   | 7,268      | 4,004   | 3,267   |
| Separation factor, <i>f</i> .....      | 0.131        | 0.134     | 0.126     | 0.113      | 0.118   | 0.106   | 0.129                             | 0.158  | 0.089  | 0.111      | 0.129   | 0.086   | 0.155      | 0.152   | 0.159   | 0.127      | 0.132   | 0.120   |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

estimation procedure is used to fit the following model in the age range 85–99:

$$\ln\left[\frac{M_x}{1-M_x}\right] = \ln(\alpha) + \beta x \quad [9]$$

Then, the estimated parameters are used to predict  $\bar{M}_x$  as follows:

$$\bar{M}_x = \frac{e^a e^{bx}}{1 + e^a e^{bx}} \text{ or, equivalently, } \bar{M}_x = \frac{e^{a+bx}}{1 + e^{a+bx}} \quad [10]$$

where  $a$  and  $b$  are the predicted values of parameters  $\ln(\alpha)$  and  $\beta$ , respectively, given by fitting model [9]. Estimated parameters and the starting age for the modeled age span by population in 2022 are presented in Table IV.

Finally, the predicted probability of death,  $\bar{q}_x$ , for ages 85–120 is estimated by converting  $\bar{M}_x$  as:

$$\bar{q}_x = \frac{\bar{M}_x}{1 + \frac{1}{2}\bar{M}_x} \quad [11]$$

The probability of death is extrapolated to age 120 to estimate the life table population until no survivors remain. This information is then used to estimate  $L_x$  for ages 100–120, which is used to close the table with the age category 100 and older, combined (discussed in the following section).

## Probabilities of dying at the oldest ages for the Hispanic, American Indian and Alaska Native non-Hispanic, and Asian non-Hispanic populations

As previously noted, Medicare data are unreliable for the Hispanic (regardless of race) and American Indian and Alaska Native and Asian (regardless of Hispanic origin) populations due to inconsistencies in the Medicare race and ethnicity classification system. As a result, other methods had to be used to estimate mortality at the oldest ages for these populations. Beyond age 80, mortality estimates based strictly on vital statistics for these three populations are too low, despite correction for ethnicity and race misclassification on the death certificate.

A consistent finding across diverse studies has been that Hispanic mortality in the adult and advanced ages varies between approximately 80% and 89% relative to that of the White non-Hispanic population (17,27,28). The Brass relational logit model takes advantage of the relationship between Hispanic

and White non-Hispanic mortality previously identified and has been widely and successfully used to predict the mortality of one population relative to another at the older ages (29,30). Using the age-specific mortality pattern of the White non-Hispanic population as the standard, the Brass relational logit model is used to predict Hispanic mortality in the older ages. The standard is fit to Hispanic data in the age interval 45–80, and the predicted parameters are used to estimate the probabilities of death for ages 76–100. This method allows the relationship between the two populations in the younger ages to be extended to the older ages (17,29,30).

Although similar information is not available for the American Indian and Alaska Native non-Hispanic and Asian non-Hispanic populations, with a slight modification, the Brass relational logit model was successfully used to produce reliable complete period life tables for the American Indian and Alaska Native non-Hispanic population in Indian Health Service Contract Health Service Delivery Area counties (31). The choice of the White non-Hispanic population as the standard population is based on several factors. First, it is the most widely used comparison population in the study of racial and ethnic disparities given its social and economic privilege. Second, it is the largest population in the United States and has the most reliable mortality data. Third, the relationship between the age-specific mortality patterns of the American Indian and Alaska Native non-Hispanic and Asian non-Hispanic populations and the White non-Hispanic population remains constant throughout the age span 45–80 (45–84 for the non-Hispanic AIAN population). The assumption that this pattern continues to the oldest ages is reasonable because the final results are consistent with expected age-specific mortality patterns at the oldest ages (Figures I and II).

The Brass relational logit model expresses the age-specific mortality pattern of a population of interest as a function of the age-specific mortality pattern of a standard population and is expressed as:

$$\bar{Y}_x = \alpha + \beta Y_x^S \quad [12]$$

where  $\bar{Y}_x$  is the predicted logit of the probability of death,  $q_x$ , in the population of interest, that is,

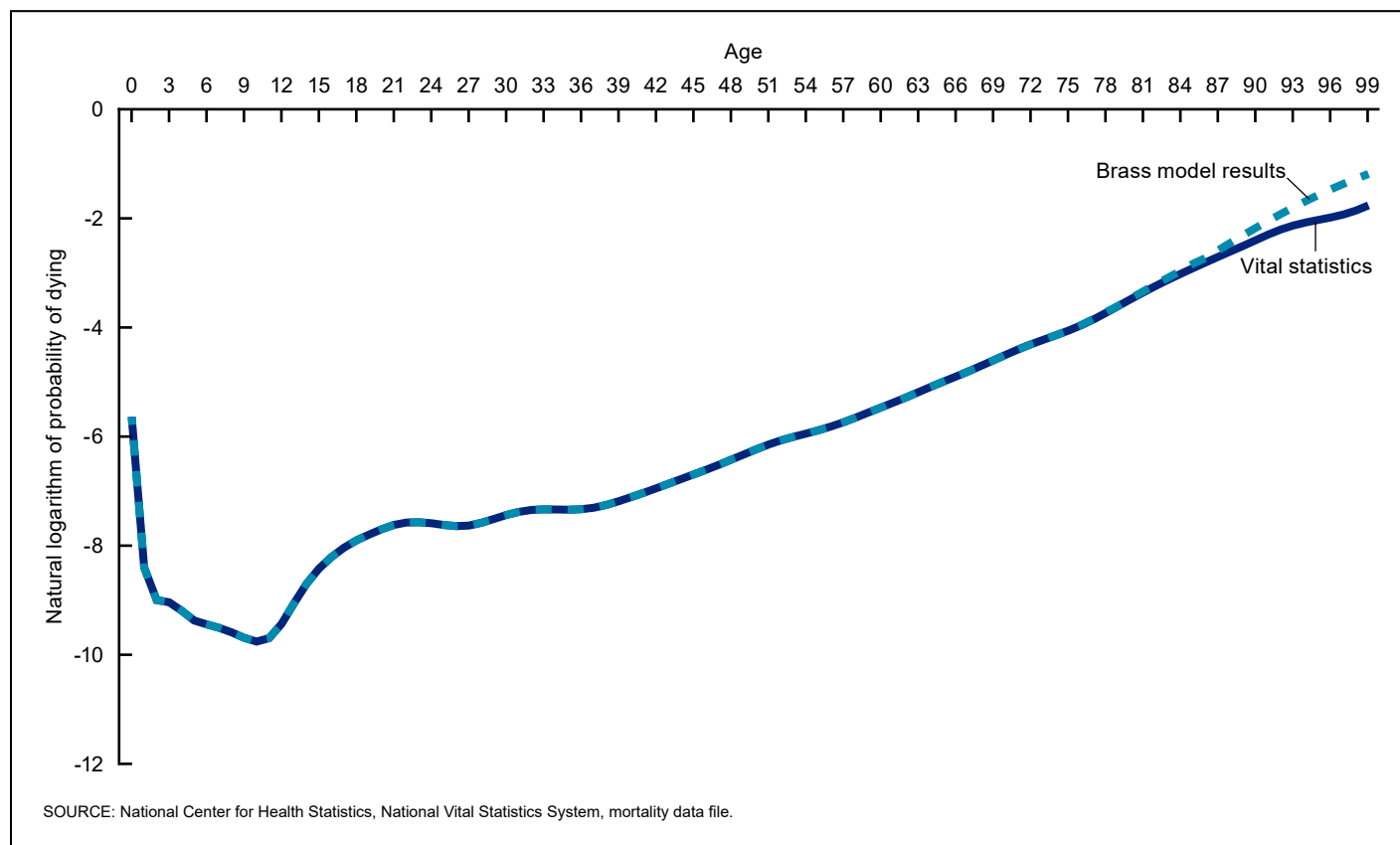
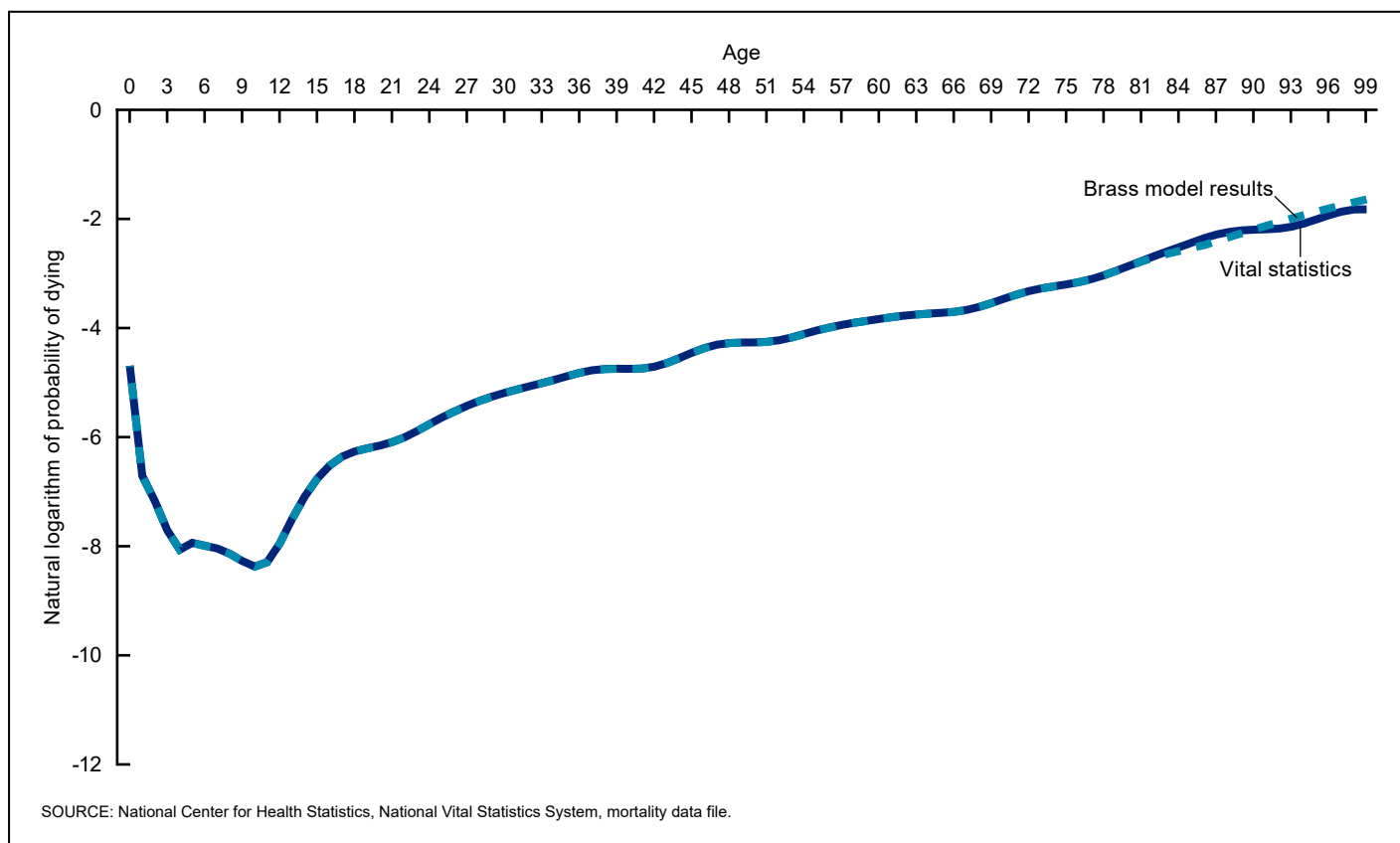
$$\text{logit}[q_x] = \ln\left[\frac{q_x}{1-q_x}\right]$$

$Y_x^S$  is the logit of the probability of death in the standard population,  $q_x^S$ , that is,

**Table IV. Estimated parameters  $\alpha$  and  $\beta$  used for predicting  $m_x$  and starting age of modeled age span: U.S. Life Tables, 2022**

| Parameter                                | Total                |                      |                      | Black, non-Hispanic  |                      |                      | White, non-Hispanic  |                      |                      |
|------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                          | Both sexes           | Male                 | Female               | Both sexes           | Male                 | Female               | Both sexes           | Male                 | Female               |
| Starting age . . . . .                   | 86                   | 86                   | 86                   | 86                   | 85                   | 87                   | 86                   | 86                   | 86                   |
| $\ln(\alpha)$ (standard error) . . . . . | -13.9691<br>(0.084)  | -13.90409<br>(0.229) | -14.62704<br>(0.057) | -11.82131<br>(0.197) | -11.16574<br>(0.189) | -12.85871<br>(0.317) | -14.19896<br>(0.065) | -14.37192<br>(0.134) | -14.81577<br>(0.065) |
| $\beta$ (standard error) . . . . .       | 0.1367831<br>(0.001) | 0.1381831<br>(0.003) | 0.1428039<br>(0.001) | 0.1121027<br>(0.002) | 0.1072203<br>(0.002) | 0.1224070<br>(0.003) | 0.1396678<br>(0.001) | 0.1437302<br>(0.001) | 0.1452064<br>(0.001) |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Figure I. Age pattern of mortality for the Asian, non-Hispanic population: United States, 2022****Figure II. Age pattern of mortality for the American Indian and Alaska Native, non-Hispanic population: United States, 2022**

$$\text{logit}[q_x^S] = \ln\left[\frac{q_x^S}{1-q_x^S}\right]$$

$\alpha$  is the predicted parameter that measures the level of mortality of the population of interest relative to the standard population, and  $\beta$  is the predicted parameter that measures the slope of the mortality function of the population of interest relative to the standard population (3,14,30). Table V shows values of predicted  $\alpha$  and  $\beta$  and their standard errors.

A maximum-likelihood generalized linear-model estimation procedure was used to fit equation [12] in the age range 45–80 (45–84 for the American Indian and Alaska Native non-Hispanic population). The resulting predicted parameters  $\alpha$  and  $\beta$  were then used to estimate the predicted probability of death for ages 76–120 (80–120 for the American Indian and Alaska Native non-Hispanic population). The value  $q_x$  was predicted to age 120 to estimate the life table population until no survivors remain, as was done for the other population groups. This information was then used to estimate  $L_x$  for ages 100–120, which was used to close the table with the age category 100 and older, combined (discussed in the next section).

Predicted  $\bar{q}_x$  is estimated by transforming its logit,  $\bar{Y}_x$ , back as follows:

$$\bar{q}_x = \frac{\exp[\bar{Y}_x]}{1 + \exp[\bar{Y}_x]} = \frac{\exp[\alpha + \beta Y_x^S]}{1 + \exp[\alpha + \beta Y_x^S]} \quad [13]$$

To ensure a smooth transition from vital  $q_x^V$  and predicted  $\bar{q}_x$ , the two were blended from ages 76 to 80 (80 to 84 for the American Indian and Alaska Native non-Hispanic population) with a graduating process as follows:

$$q_x = \frac{1}{6}[(81-x)q_x^V + (x-75)\bar{q}_x] \quad [14]$$

when  $x = 76, \dots, 80$ ,

$$q_x = \frac{1}{6}[(85-x)q_x^V + (x-79)\bar{q}_x]$$

when  $x = 80, \dots, 84$ .

Finally, to close the table at age 100 and older (combined),  ${}_{\infty}q_{100}$  is set equal to 1.0 because all survivors to this age will die at some point in the open-ended age interval. Once  $q_x$  is obtained for each single year of age, the other life table functions are easily calculated.

## Calculation of remaining life table functions for all groups

### Survivor function ( $l_x$ )

The life table radix,  $l_0$ , is set at 100,000. For ages greater than 0, the number of survivors remaining at exact age  $x$  is calculated as:

$$l_x = l_{x-1}(1 - q_{x-1}) \quad [15]$$

### Decrement function ( $d_x$ )

The number of deaths occurring between ages  $x$  and  $x + 1$  is calculated from the survivor function:

$$d_x = l_x - l_{x+1} = l_x q_x \quad [16]$$

Note that

$${}_{\infty}d_{100} = {}_{\infty}l_{100} \text{ because } {}_{\infty}q_{100} = 1.0.$$

### Person-years lived ( $L_x$ )

Person-years lived for ages 1–99 is calculated assuming that the survivor function declines linearly between ages  $x$  and  $x + 1$ . This gives the formula:

$$L_x = \frac{1}{2}(l_x + l_{x+1}) = l_x - \frac{1}{2}d_x \quad [17]$$

For  $x = 0$ , the separation factor  $f$  is used to calculate  $L_0$ :

$$L_0 = f l_0 + (1-f)l_1 \quad [18]$$

Finally,  ${}_{\infty}L_{100}$  is estimated as the sum of the extrapolated  $L_x$  values for ages 100–120.

### Person-years lived at and above age $x$ ( $T_x$ )

$T_x$  is calculated by summing  $L_x$  values at and above age  $x$ :

$$T_x = \sum_{x=0}^{\infty} L_x \quad [19]$$

### Life expectancy at age $x$ ( $e_x$ )

Life expectancy at exact age  $x$  is calculated as:

$$e_x = \frac{T_x}{l_x} \quad [20]$$

## Causes of death contributing to changes in life expectancy

To measure changes in mortality, a discrete method, developed by Arriaga (12,32–33), was used to estimate the contribution of mortality change by causes of death based on changes in life expectancy, which is described as a procedure that “estimates the number of years added to or removed from life expectation because of the decrease or increase (respectively) of the central mortality rates of life tables” (32). With this method one can partition the change in life expectancy over time or between two separate groups of populations. In this report, Arriaga’s technique is used to partition by cause of death changes in life expectancy at birth in the United States from 2021 to 2022.

The method partitions changes into component additive parts and identifies the causes of death having the greatest influence, positive or negative, on changes in life expectancy based on rankable causes of death (12,32–33). This method is used by NCHS annually to analyze changes in life expectancy (13).

**Table V. Estimated Brass relational logit model parameters  $\alpha$  and  $\beta$  for the Hispanic, American Indian and Alaska Native non-Hispanic populations: U.S. life tables, 2022**

| Parameter                           | Non-Hispanic          |                       |                      |                                   |                       |                       |                       |                       |                      |
|-------------------------------------|-----------------------|-----------------------|----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|                                     | Hispanic              |                       |                      | American Indian and Alaska Native |                       |                       | Asian                 |                       |                      |
|                                     | Both sexes            | Male                  | Female               | Both sexes                        | Male                  | Female                | Both sexes            | Male                  | Female               |
| $\alpha$ (standard error) . . . . . | -0.2262513<br>(0.031) | -0.2392170<br>(0.044) | 0.0941733<br>(0.025) | -1.0400280<br>(0.053)             | -1.1770480<br>(0.048) | -0.8849626<br>(0.054) | -0.0744674<br>(0.036) | -0.2218523<br>(0.037) | 0.1056525<br>(0.047) |
| $\beta$ (standard error) . . . . .  | 1.0054810<br>(0.007)  | 0.9911289<br>(0.011)  | 1.0489100<br>(0.006) | 0.6107325<br>(0.013)              | 0.5655426<br>(0.012)  | 0.6549281<br>(0.013)  | 1.1593000<br>(0.010)  | 1.1100360<br>(0.009)  | 1.2098410<br>(0.013) |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

**Abriding the complete life table**

An abridged or collapsed version of the complete life table can be calculated in which life table functions are shown for 5-year rather than single-year age intervals. It is often desirable to summarize the life table and save space when publishing life table data by single years of age. The abridgement of the complete life table is simplified by an important property of three of the six life table functions. The  $l_x$ ,  $T_x$ , and  $e_x$  functions describe exact age  $x$ , that is, the beginning of the age interval  $x$  to  $x + n$  (where  $n$  denotes the length of the age interval; for 5-year age intervals,  $n = 5$ ). Life expectancy at age 20 ( $e_{20}$ ), for example, has the same value regardless of whether the age interval is 20–21 or 20–25. Consequently, the values  $l_x$ ,  $T_x$ , and  $e_x$  can be extracted at 5-year intervals from the complete life table and placed into the abridged life table (compare  $l_x$ ,  $T_x$ , and  $e_x$  in Table VI with the same functions in Table 1). It is also illustrative to compare values for  $e_x$  and  $l_x$  in Tables A and B with their corresponding values presented in Tables 1–18.

The  $q_x$ ,  $d_x$ , and  $L_x$  functions, in contrast, describe the age interval  $x$  to  $x + n$ . In fact, for abridged life tables, the notation for these functions is different ( ${}_nq_x$ ,  ${}_nd_x$ , and  ${}_nL_x$ , respectively). As a result,  ${}_5q_{20}$  is the probability of dying between ages 20 and 25 and will be somewhat larger than  $q_{20}$ , the probability of dying between ages 20 and 21. Considering this,  ${}_nq_x$ ,  ${}_nd_x$ , and  ${}_nL_x$  must be recalculated in the abridged life table. It is simplest to begin with  ${}_nd_x$ . The calculations are made for all but the final age interval as:

$${}_nd_x = l_x - l_{x+n}$$

$${}_nq_x = \frac{{}_nd_x}{l_x}$$

$${}_nL_x = T_x - T_{x+n}$$

Note that for the open-ended interval, ages 100 and older,  ${}_\infty d_{100} = l_{100}$ ,  ${}_\infty q_{100} = 1.0$ , and  ${}_\infty L_{100} = T_{100}$ . Table VI shows each of the life table functions for the 2022 U.S. total population abridged from Table 1.

**Table VI. Life table for the total population: United States, 2022**

| Age (years)        | Probability of dying<br>between ages<br>$x$ and $x + n$ | Number<br>surviving to<br>age $x$ | Number dying<br>between ages<br>$x$ and $x + n$ | Person-years lived<br>between ages<br>$x$ and $x + n$ | Total number of<br>person-years lived<br>above age $x$ | Expectation<br>of life<br>at age $x$ |
|--------------------|---------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------|
|                    | ${}_nq_x$                                               | $l_x$                             | ${}_nd_x$                                       | ${}_nL_x$                                             | $T_x$                                                  | $e_x$                                |
| 0-1.....           | 0.005605                                                | 100,000                           | 560                                             | 99,513                                                | 7,745,695                                              | 77.5                                 |
| 1-5.....           | 0.001117                                                | 99,440                            | 111                                             | 397,492                                               | 7,646,182                                              | 76.9                                 |
| 5-10.....          | 0.000643                                                | 99,328                            | 64                                              | 496,471                                               | 7,248,690                                              | 73.0                                 |
| 10-15.....         | 0.000875                                                | 99,265                            | 87                                              | 496,157                                               | 6,752,219                                              | 68.0                                 |
| 15-20.....         | 0.002933                                                | 99,178                            | 291                                             | 495,249                                               | 6,256,063                                              | 63.1                                 |
| 20-25.....         | 0.004939                                                | 98,887                            | 488                                             | 493,291                                               | 5,760,814                                              | 58.3                                 |
| 25-30.....         | 0.007023                                                | 98,399                            | 691                                             | 490,352                                               | 5,267,523                                              | 53.5                                 |
| 30-35.....         | 0.009197                                                | 97,708                            | 899                                             | 486,366                                               | 4,777,171                                              | 48.9                                 |
| 35-40.....         | 0.011278                                                | 96,809                            | 1,092                                           | 481,404                                               | 4,290,805                                              | 44.3                                 |
| 40-45.....         | 0.014183                                                | 95,717                            | 1,358                                           | 475,307                                               | 3,809,401                                              | 39.8                                 |
| 45-50.....         | 0.018470                                                | 94,360                            | 1,743                                           | 467,652                                               | 3,334,094                                              | 35.3                                 |
| 50-55.....         | 0.026085                                                | 92,617                            | 2,416                                           | 457,396                                               | 2,866,442                                              | 30.9                                 |
| 55-60.....         | 0.039327                                                | 90,201                            | 3,547                                           | 442,678                                               | 2,409,046                                              | 26.7                                 |
| 60-65.....         | 0.057377                                                | 86,653                            | 4,972                                           | 421,393                                               | 1,966,367                                              | 22.7                                 |
| 65-70.....         | 0.079524                                                | 81,682                            | 6,496                                           | 392,867                                               | 1,544,974                                              | 18.9                                 |
| 70-75.....         | 0.113624                                                | 75,186                            | 8,543                                           | 355,598                                               | 1,152,107                                              | 15.3                                 |
| 75-80.....         | 0.175244                                                | 66,643                            | 11,679                                          | 305,440                                               | 796,510                                                | 12.0                                 |
| 80-85.....         | 0.278643                                                | 54,964                            | 15,315                                          | 237,822                                               | 491,069                                                | 8.9                                  |
| 85-90.....         | 0.434984                                                | 39,649                            | 17,247                                          | 155,237                                               | 253,247                                                | 6.4                                  |
| 90-95.....         | 0.637104                                                | 22,402                            | 14,273                                          | 73,767                                                | 98,010                                                 | 4.4                                  |
| 95-100.....        | 0.813845                                                | 8,130                             | 6,616                                           | 21,059                                                | 24,243                                                 | 3.0                                  |
| 100 and older..... | 1.000000                                                | 1,513                             | 1,513                                           | 3,184                                                 | 3,184                                                  | 2.1                                  |

SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

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