

United States Life Tables, 2024

by Elizabeth Arias, Ph.D., Jiaquan Xu, M.D., and Betzaida Tejada-Vera, M.S.

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 2024.

Methods—Data used to prepare the 2024 life tables are 2024 final mortality statistics; July 1, 2024, population estimates based on the blended base population estimates produced by the U.S. Census Bureau; and 2024 Medicare data for people ages 66–99. The method used to estimate life tables for the Hispanic population has not changed since it was developed for the 2006 Hispanic-origin life tables. 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 2024 life tables for all other groups was first implemented with data year 2008.

Results—In 2024, the overall expectation of life at birth was 79.0 years, increasing 0.6 year from 78.4 years in 2023. Between 2023 and 2024, life expectancy at birth increased by 0.7 year for males (from 75.8 to 76.5) and 0.3 year for females (81.1 to 81.4). Between 2023 and 2024, life expectancy increased by 1.0 year for the American Indian and Alaska Native non-Hispanic population (70.1 to 71.1), 0.8 year for the Black non-Hispanic population (74.0 to 74.8), 0.6 year for the Asian non-Hispanic population (85.2 to 85.8), 0.5 year for the Hispanic population (81.3 to 81.8), and 0.5 year for the White non-Hispanic population (78.4 to 78.9).

Keywords: life expectancy • death rates • Hispanic origin • race • survival • National Vital Statistics System (NVSS)

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. Constructing cohort life tables entirely based on observed data for real cohorts is usually not feasible, 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 2024 assumes a hypothetical cohort that is subject throughout its lifetime to the age-specific death rates prevailing for the actual population in 2024. Consequently, the period life table may be characterized as offering a “snapshot” of current mortality experience, showing 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 (see 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 2018–2024 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 standards (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 2024 are final numbers of deaths for the year 2024; July 1, 2024, population estimates; and age-specific death and population counts for Medicare beneficiaries ages 66–99 for the year 2024 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](#). Data from the Medicare program were used to supplement vital statistics and census data for age 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 2024 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 2024 for the total population was 79.0 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, 58,997 people out of the original 2024 hypothetical life table cohort of 100,000 (or 59.0%) were alive at exact age 80. In other words, the probability that a person will survive from birth to age 80, given 2024 age-specific mortality, is 59.0%. 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, divide the number of survivors at age 85 (43,776) by the number of survivors at age 20 (98,950), which results in a 44.2% 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 0.001028 ([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, 99,484 will complete the first year of life and enter the second; 99,336 will reach age 10; 99,124 will reach age 20; and 50,535 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, 589 will die in the first year of life; 102 between ages 20 and 21; and 1,170 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 98,732 for males in the age interval 20–21 is the total number of years lived between the 20th and 21st birthdays by the 98,783 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

Table A. Expectation of life, by age, Hispanic origin and race, and sex: United States, 2024

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.	79.0	76.5	81.4	81.8	79.2	84.3	71.1	67.8	74.6	85.8	83.7	87.7	74.8	71.3	78.2	78.9	76.7	81.3
1.	78.4	76.0	80.9	81.2	78.6	83.7	70.8	67.5	74.2	85.1	83.0	87.0	74.6	71.1	78.0	78.3	76.0	80.6
5.	74.5	72.1	76.9	77.3	74.6	79.8	67.0	63.7	70.3	81.2	79.0	83.0	70.7	67.3	74.1	74.3	72.1	76.6
10.	69.5	67.1	72.0	72.3	69.7	74.8	62.1	58.8	65.4	76.2	74.1	78.1	65.8	62.4	69.2	69.4	67.1	71.7
15.	64.6	62.2	67.0	67.4	64.7	69.8	57.2	53.9	60.5	71.2	69.1	73.1	60.9	57.5	64.2	64.4	62.2	66.7
20.	59.7	57.4	62.1	62.5	59.9	64.9	52.5	49.3	55.7	66.3	64.2	68.2	56.2	52.9	59.4	59.6	57.4	61.8
25.	55.0	52.7	57.3	57.8	55.3	60.1	48.1	45.0	51.2	61.5	59.4	63.2	51.6	48.5	54.6	54.8	52.6	56.9
30.	50.3	48.1	52.4	53.1	50.7	55.2	43.8	41.0	46.7	56.6	54.5	58.3	47.1	44.1	49.9	50.0	48.0	52.1
35.	45.6	43.5	47.6	48.4	46.2	50.4	39.8	37.1	42.4	51.7	49.7	53.4	42.6	39.7	45.2	45.3	43.4	47.3
40.	41.0	39.0	42.9	43.8	41.6	45.6	35.9	33.5	38.4	46.9	44.9	48.5	38.2	35.4	40.6	40.7	38.9	42.6
45.	36.5	34.6	38.3	39.2	37.2	40.9	32.2	29.9	34.4	42.1	40.1	43.6	33.9	31.3	36.2	36.2	34.5	37.9
50.	32.0	30.3	33.7	34.6	32.7	36.2	28.7	26.6	30.7	37.3	35.5	38.8	29.7	27.3	31.8	31.8	30.1	33.4
55.	27.7	26.1	29.2	30.2	28.4	31.6	25.3	23.5	27.0	32.7	30.9	34.0	25.6	23.4	27.6	27.5	25.9	29.0
60.	23.6	22.1	24.9	25.9	24.3	27.1	22.3	20.8	23.5	28.1	26.5	29.4	21.8	19.8	23.5	23.3	21.9	24.7
65.	19.7	18.4	20.8	21.8	20.3	22.8	19.2	18.1	20.1	23.7	22.2	24.8	18.3	16.5	19.8	19.5	18.2	20.6
70.	16.0	14.9	16.9	17.8	16.6	18.6	16.3	15.5	16.8	19.4	18.1	20.3	15.1	13.6	16.3	15.8	14.7	16.7
75.	12.5	11.6	13.2	14.2	13.2	14.7	13.6	13.2	13.7	15.4	14.3	16.1	12.2	10.9	13.0	12.3	11.4	13.0
80.	9.4	8.6	9.9	10.8	9.9	11.1	11.0	10.7	11.0	11.6	10.8	12.2	9.4	8.4	10.0	9.2	8.5	9.7
85.	6.7	6.1	7.1	7.8	7.2	8.0	8.8	8.7	8.6	8.4	7.7	8.7	7.0	6.3	7.4	6.5	6.0	6.9
90.	4.6	4.2	4.9	5.5	5.0	5.5	6.9	7.0	6.6	5.7	5.2	5.9	5.2	4.6	5.4	4.5	4.0	4.7
95.	3.2	2.9	3.3	3.8	3.4	3.7	5.5	5.6	5.0	3.8	3.4	3.9	3.8	3.3	3.9	3.0	2.7	3.2
100.	2.2	2.0	2.3	2.7	2.4	2.5	4.4	4.6	3.9	2.6	2.4	2.6	2.8	2.5	2.8	2.1	1.9	2.2

NOTES: Life tables by Hispanic origin and race are based on death rates that have been adjusted for race and ethnicity misclassification on death certificates; see Technical Notes in this report. People of Hispanic origin may be of any race.

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

Table B. Number of survivors out of 100,000 born alive, by age, Hispanic origin and race, and sex: United States, 2024

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.	99,447	99,411	99,484	99,510	99,488	99,533	99,083	98,897	99,282	99,626	99,613	99,639	98,907	98,828	98,990	99,559	99,527	99,592
5.	99,344	99,297	99,393	99,425	99,400	99,451	98,848	98,653	99,057	99,565	99,546	99,583	98,699	98,612	98,815	99,473	99,422	99,526
10.	99,282	99,230	99,336	99,371	99,344	99,401	98,706	98,518	98,910	99,519	99,493	99,546	98,582	98,484	98,724	99,419	99,365	99,479
15.	99,202	99,138	99,268	99,299	99,265	99,339	98,558	98,312	98,819	99,469	99,433	99,507	98,445	98,332	98,620	99,346	99,275	99,422
20.	98,950	98,783	99,124	99,071	98,950	99,203	97,969	97,552	98,400	99,327	99,295	99,414	97,962	97,601	98,395	99,130	98,982	99,288
25.	98,541	98,194	98,905	98,678	98,387	98,993	96,848	96,080	97,637	99,112	99,051	99,311	97,188	96,452	98,003	98,789	98,502	99,093
30.	98,027	97,465	98,614	98,162	97,614	98,747	95,192	93,899	96,525	98,904	98,778	99,195	96,323	95,229	97,506	98,328	97,862	98,821
35.	97,329	96,519	98,173	97,510	96,676	98,402	93,119	91,247	95,068	98,653	98,441	99,062	95,256	93,798	96,809	97,654	96,968	98,376
40.	96,428	95,339	97,564	96,737	95,599	97,964	90,243	87,866	92,728	98,365	98,041	98,879	93,853	91,938	95,856	96,746	95,794	97,745
45.	95,262	93,853	96,729	95,811	94,330	97,414	87,071	84,036	90,246	97,964	97,493	98,612	91,998	89,565	94,498	95,550	94,294	96,867
50.	93,763	91,999	95,595	94,618	92,804	96,589	82,685	78,868	86,696	97,348	96,679	98,171	89,676	86,664	92,720	94,016	92,432	95,678
55.	91,648	89,406	93,976	92,998	90,745	95,444	77,880	73,156	82,869	96,367	95,364	97,484	86,618	82,842	90,386	91,818	89,795	93,947
60.	88,595	85,721	91,574	90,697	87,893	93,738	71,866	66,040	78,046	94,961	93,462	96,502	82,414	77,766	87,020	88,665	86,032	91,435
65.	84,133	80,401	87,990	87,313	83,763	91,129	65,389	58,735	72,491	92,935	90,751	95,059	76,442	70,666	82,135	84,103	80,636	87,742
70.	78,082	73,331	82,959	82,669	78,040	87,532	58,170	50,703	66,143	89,695	86,606	92,590	68,497	61,394	75,445	78,020	73,592	82,642
75.	70,090	64,291	76,003	76,114	70,349	82,022	49,768	41,985	58,174	84,758	80,433	88,677	59,030	50,701	67,075	69,943	64,502	75,585
80.	58,997	52,469	65,626	66,775	60,108	73,446	40,944	34,053	48,436	77,166	71,584	82,149	47,849	39,118	56,221	58,592	52,410	64,963
85.	43,776	37,049	50,535	53,180	45,933	60,035	30,727	24,976	36,972	64,653	57,798	70,639	34,552	26,316	42,352	43,027	36,619	49,556
90.	25,811	20,201	31,379	35,459	28,792	41,107	20,525	16,423	24,758	45,957	38,756	52,047	20,486	14,195	26,410	24,905	19,612	30,257
95.	10,093	6,890	13,135	16,983	12,368	19,942	11,479	9,130	13,483	23,435	17,733	27,712	9,006	5,381	12,260	9,314	6,348	12,167
100.	2,116	1,170	2,966	4,864	2,986	5,516	5,111	4,119	5,559	6,854	4,348	8,349	2,591	1,245	3,692	1,796	967	2,546

NOTES: Life tables by Hispanic origin and race are based on death rates that have been adjusted for race and ethnicity misclassification on death certificates; see Technical Notes in this report. People of Hispanic origin may be of any race.

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

hypothetical life table cohort. For example, 5,668,761 is the total number of years lived after reaching age 20 by the 98,783 males who reached that age (Table 2).

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/I_x). Consequently, the average remaining lifetime for males who reach age 20 is 57.4 years (5,668,761 divided by 98,783) (Table 2).

Results

Life expectancy in the United States

Tables 1–18 show complete life tables for 2024 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 2024 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 2024. For 2024, life expectancy at birth was 79.0 years, an increase of 0.6 year from 78.4 in 2023 (Table 19).

The difference in life expectancy between the sexes was 4.9 years in 2024, decreasing 0.4 year from 2023. 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 4.9 in 2024 (Figure 1, Table 19).

The 2024 life table may be used to compare life expectancy at any age from birth onward. Based on mortality experienced in 2024, a person age 65 could expect to live an average of 19.7 more years for a total of 84.7 years; a person age 85 could expect to live an additional 6.7 years for a total of 91.7 years; and a person age 100 could expect to live an additional 2.2 years, on average (Table A).

Life expectancy by Hispanic origin and race

In 2024, the Hispanic population had a life expectancy of 81.8 years. Within the non-Hispanic population, the Asian population had the highest life expectancy at birth (85.8 years), followed by the White (78.9), Black (74.8), and American Indian and Alaska Native (71.1) populations (Table A, Figure 2). From 2023 to 2024, life expectancy at birth increased for all Hispanic-origin and race populations (Figure 2). Life expectancy increased by 0.5 year for the Hispanic population (from 81.3 to 81.8). Within the non-Hispanic population, life expectancy

Figure 1. Life expectancy at birth, by sex: United States, 1900–2024

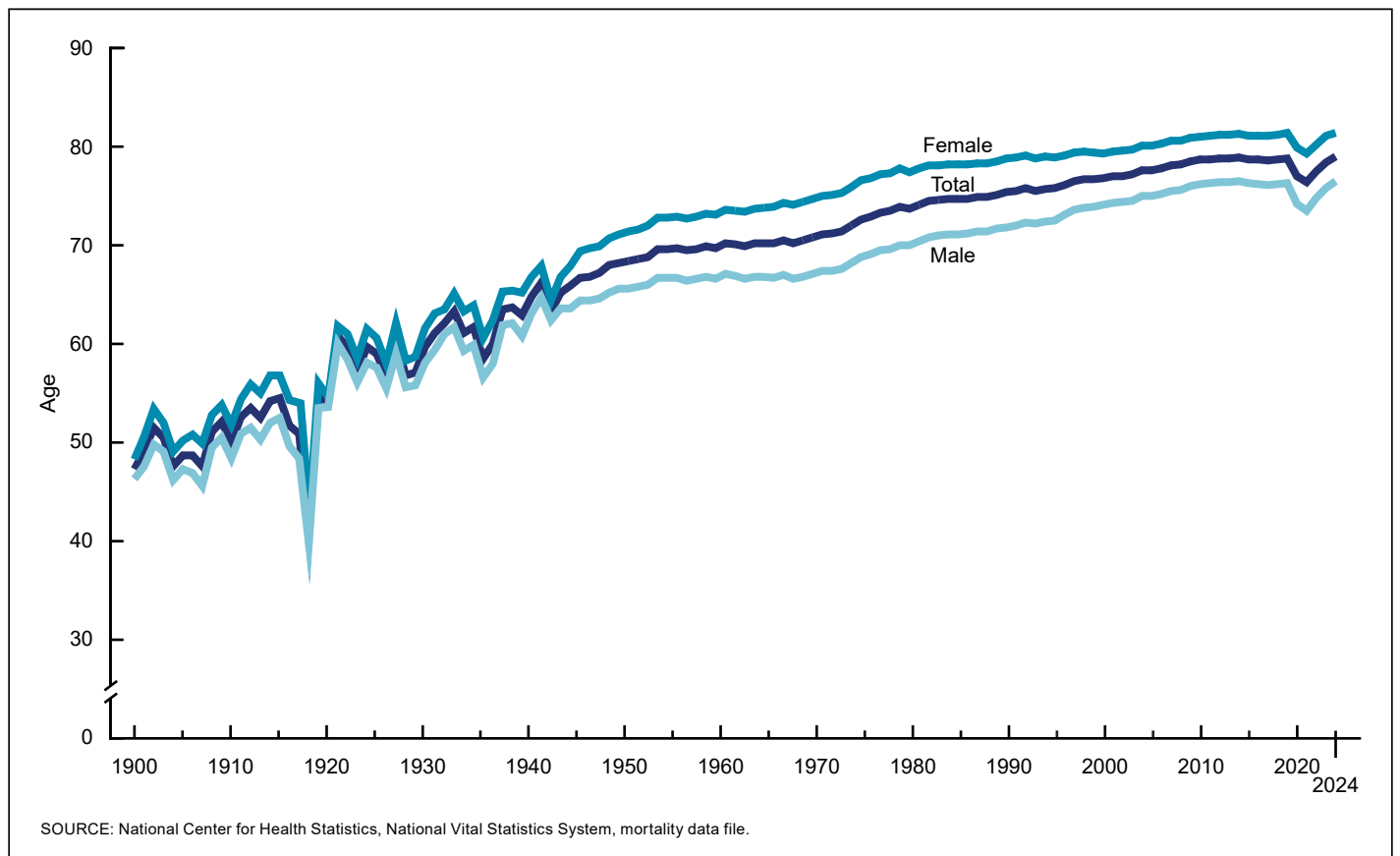
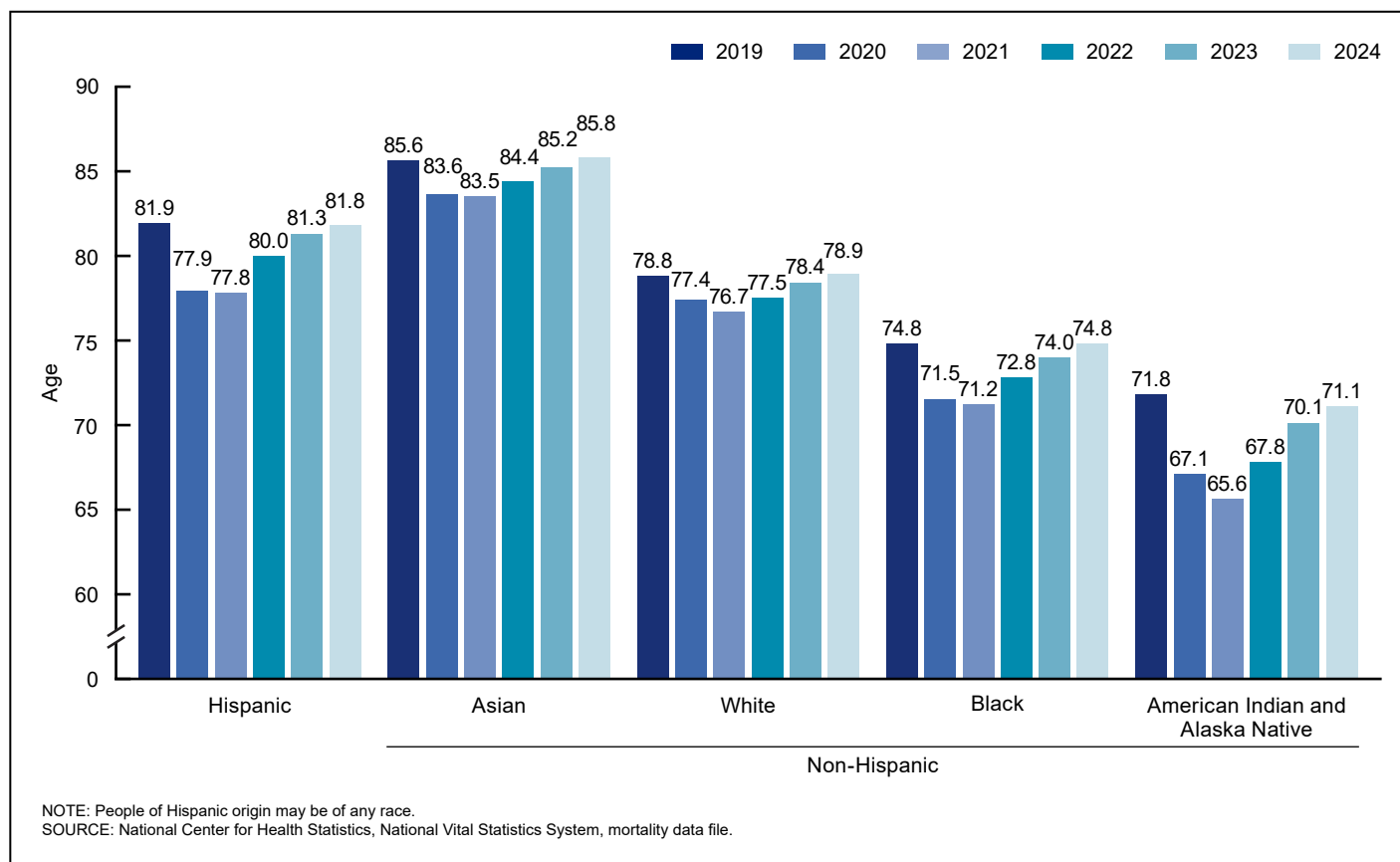


Figure 2. Life expectancy at birth, by Hispanic origin and race: United States, 2019–2024

increased by 1.0 year for the American Indian and Alaska Native population (70.1 to 71.1), 0.8 year for the Black population (74.0 to 74.8), 0.6 year for the Asian population (85.2 to 85.8), and 0.5 year for the White population (78.4 to 78.9).

From 2023 to 2024, life expectancy increased by 0.7 year for Hispanic males (from 78.5 to 79.2) and 0.3 year for Hispanic females (84.0 to 84.3) (Figure 3). Within the non-Hispanic population, American Indian and Alaska Native males and females experienced the greatest increase in life expectancy, 1.1 years each (66.7 to 67.8 and 73.5 to 74.6, respectively). Black males and females experienced increases of 1.0 year (70.3 to 71.3) and 0.6 year (77.6 to 78.2), respectively. Asian males and females experienced increases of 0.5 year (83.2 to 83.7) and 0.6 year (87.1 to 87.7), respectively. White males and females experienced increases of 0.7 year (76.0 to 76.7) and 0.4 year (80.9 to 81.3), respectively (Figure 3).

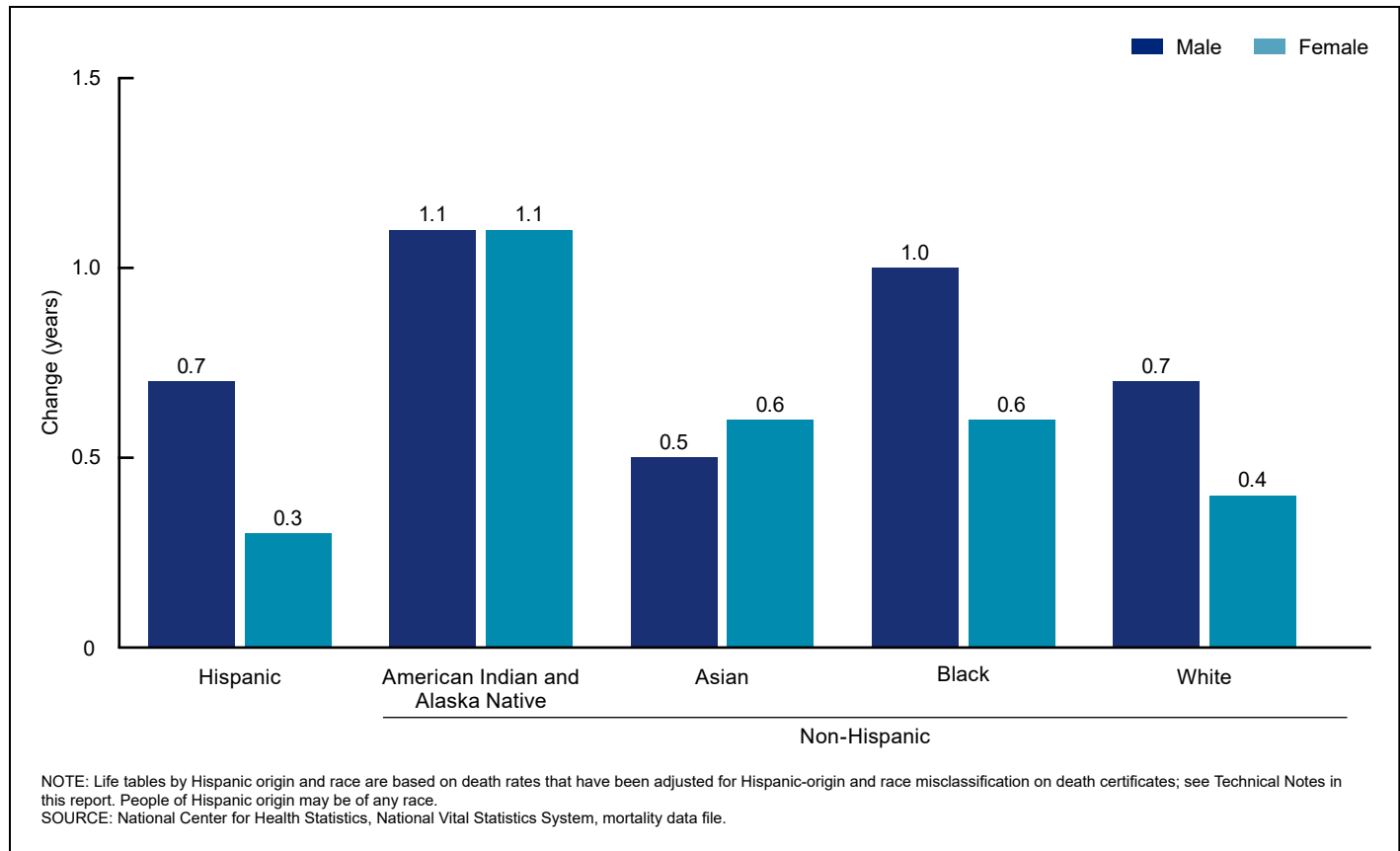
Effect on life expectancy of changes in cause-specific mortality

Changes in mortality by age and cause of death can have a major effect on life expectancy. 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 0.6 year in life expectancy between 2023 and 2024 was primarily due to decreases in mortality due to unintentional injuries (45.3% of the positive contribution), COVID-19 (10.8%), heart disease (9.0%), cancer

(6.5%), and homicide (5.9%). 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 (41.4% of the negative contribution), nutritional deficiencies (33.0%), complications of medical and surgical care (10.2%), congenital malformations (3.9%), and legal intervention (3.5%) (Figure 4) (see Technical Notes for a description of the life table partitioning method) (13).

The American Indian and Alaska Native non-Hispanic population experienced the largest increase in life expectancy between 2023 and 2024 (1.1 years). The increase was primarily due to decreases in mortality due to unintentional injuries (39.6%), heart disease (8.4%), COVID-19 (8.3%), cancer (7.7%), and suicide (3.7%). The increase in life expectancy would have been greater were it not for the offsetting effects of increases in mortality due to chronic lower respiratory diseases (24.1%), congenital malformations (13.0%), stroke (8.7%), homicide (8.0%), and pneumonitis (6.7%) (Figure 5).

The second greatest increase in life expectancy was experienced by the Black non-Hispanic population (0.8 year), primarily because of decreases in mortality due to unintentional injuries (46.4%), homicide (17.4%), heart disease (7.3%), COVID-19 (6.5%), and diabetes (2.2%) (Figure 5). The increase in life expectancy would have been greater were it not for the offsetting effects of increases in mortality due to congenital malformations (16.1%), nutritional deficiencies (13.3%), perinatal conditions (10.4%), complications of medical and surgical care (9.3%), and influenza and pneumonia (9.1%).

Figure 3. Change in life expectancy at birth, by Hispanic origin and race and sex: United States, 2023–2024

The third greatest increase in life expectancy was experienced by the Asian non-Hispanic population (0.6 year). The increase was due primarily to decreases in mortality due to heart disease (19.6%), cancer (16.9%), COVID-19 (12.5%), unintentional injuries (8.0%), and Alzheimer disease (5.3%) (Figure 6). The increase in life expectancy was offset by increases in mortality due to perinatal conditions (63.5%), pregnancy and childbirth (6.5%), complications of medical and surgical care (5.5%), atherosclerosis (5.1%), and hernia (4.5%).

The fourth largest increase in life expectancy was experienced by both the Hispanic and White non-Hispanic populations (0.5 year). For the Hispanic population, the increase was primarily due to decreases in mortality due to unintentional injuries (40.1%), COVID-19 (13.5%), heart disease (10.9%), homicide (6.2%), and diabetes (5.0%) (Figure 6). The increase in life expectancy would have been greater were it not for the offsetting effects of increases in mortality due to cancer (32.3%), influenza and pneumonia (19.1%), nutritional deficiencies (15.5%), congenital malformations (14.1%), and complications of medical and surgical care (4.1%).

For the White non-Hispanic population, the increase in life expectancy was primarily because of decreases in mortality due to unintentional injuries (50.6%), COVID-19 (11.8%), heart disease (8.3%), cancer (7.4%), and chronic lower respiratory disease (2.4%). The increase in life expectancy was offset by increases in mortality due to influenza and pneumonia (45.6%), nutritional deficiencies (31.3%), complications of medical

and surgical care (8.2%), perinatal conditions (5.9%), and Alzheimer disease (3.0%).

Survivorship in the United States

Table B summarizes the number of survivors out of 100,000 people born alive (l_x) by age, Hispanic origin and race, and sex for 2024. In 2024, 99.4% of all infants born in the United States survived the first year of life; 99.0% survived to age 20; 84.1% survived to age 65; 43.8% survived to age 85; and 2.1% survived to age 100.

Survivorship by Hispanic origin and race

In 2024, 99.5% of Hispanic infants survived the first year of life. Among the non-Hispanic population, 99.6% of Asian, 99.6% 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 select ages varied across the Hispanic-origin and race groups. In 2024, 99.1% of the Hispanic population survived to age 20, 87.3% to age 65, and 53.2% to age 85. Among the non-Hispanic population, the Asian population had the highest survival probability at age 20 (99.3%), followed by the White (99.1%), Black (98.0%), and American Indian and Alaska Native (98.0%) populations. By age 65, the Asian population had the highest survival probability at 92.9%, followed by the White (84.1%), Black (76.4%), and American Indian and Alaska Native (65.4%) populations. The survival advantage experienced by the Asian

Figure 4. Percent contribution to the changes in life expectancy from 2023 to 2024, by cause of death and Hispanic origin and race: Total and American Indian and Alaska Native, non-Hispanic populations

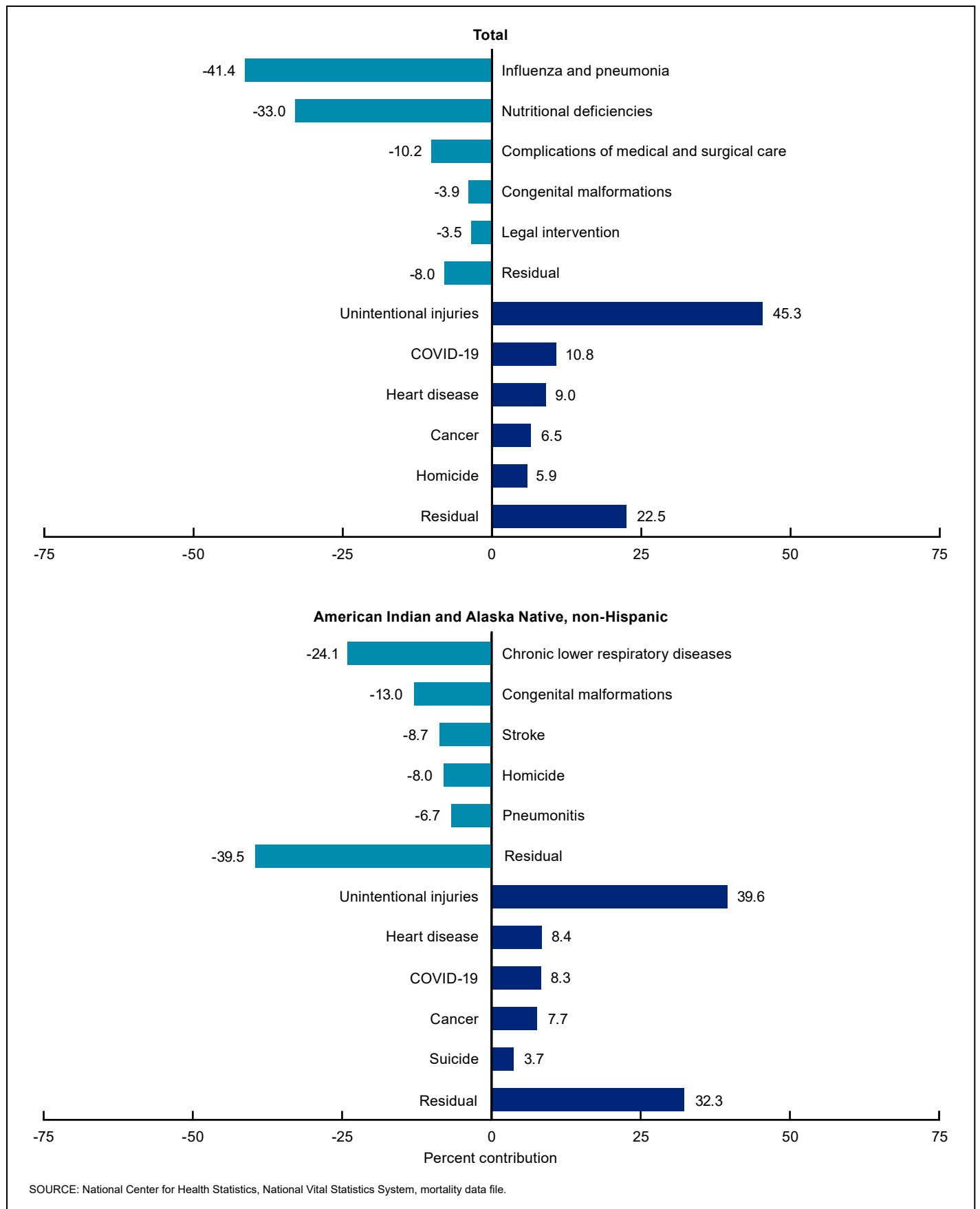


Figure 5. Percent contribution to the changes in life expectancy from 2023 to 2024, by cause of death and Hispanic origin and race: White, non-Hispanic and Black, non-Hispanic populations

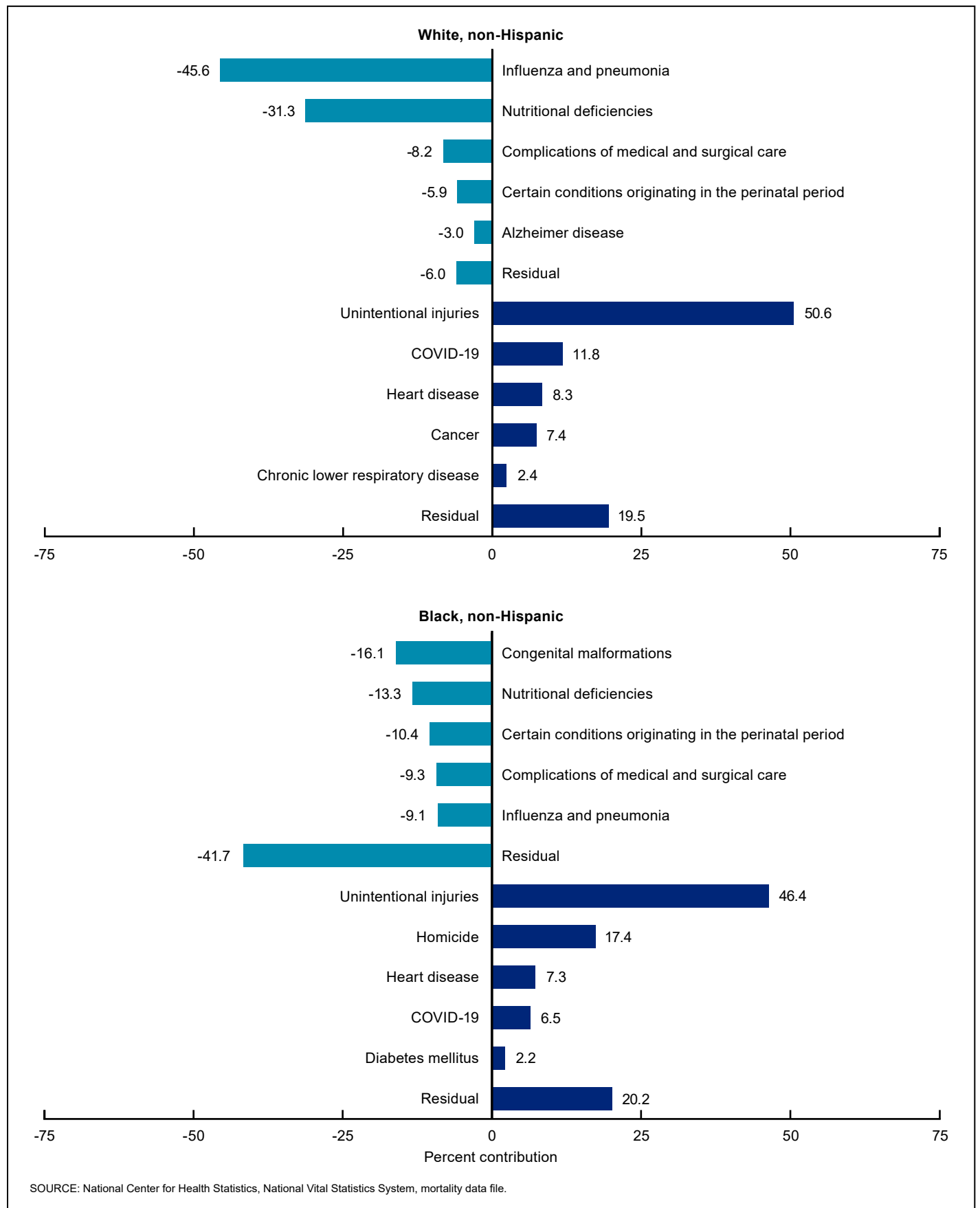


Figure 6. Percent contribution to the changes in life expectancy from 2023 to 2024, by cause of death and Hispanic origin and race: Asian, non-Hispanic and Hispanic populations

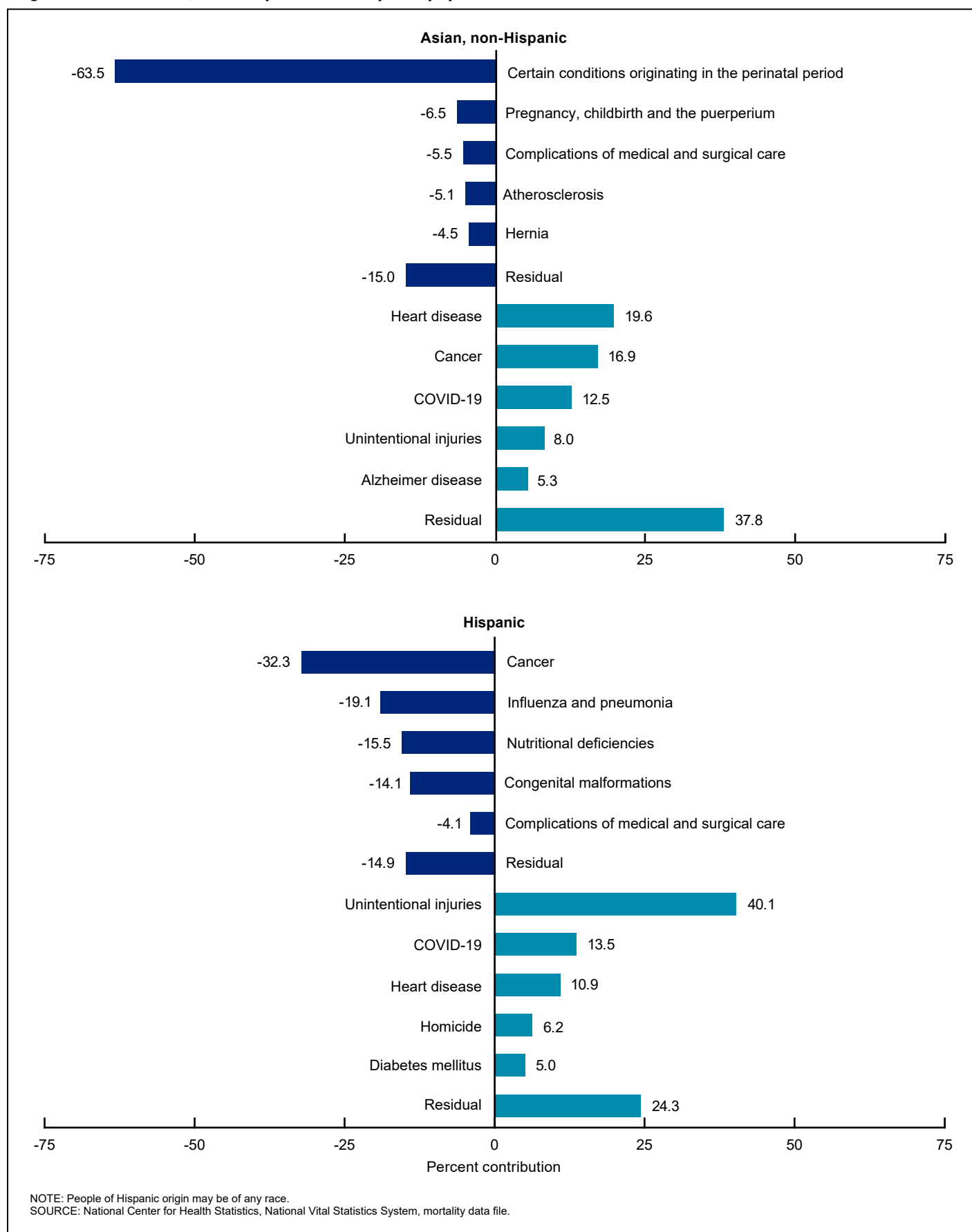
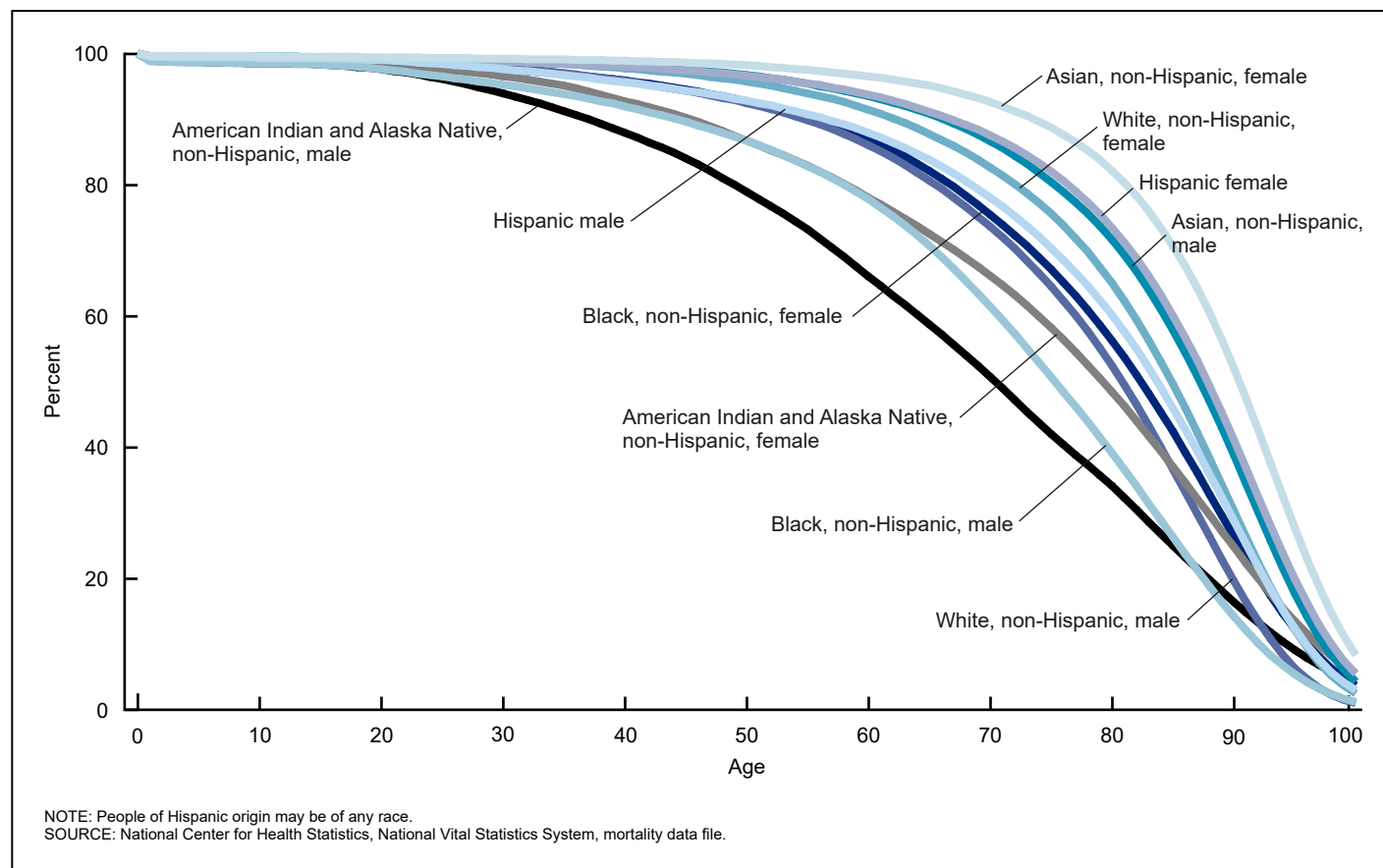


Figure 7. Percentage surviving, by Hispanic origin and race, age, and sex: United States, 2024

population increased with age so that by age 85, 64.7% had survived, compared with 43.0% of the White, 34.6% of the Black, and 30.7% of the American Indian and Alaska Native populations.

Summary

U.S. life expectancy at birth increased for the third year in a row following 2 years of decline between 2019 and 2021 that resulted mainly from the COVID-19 pandemic. Increases in life expectancy between 2023 and 2024 occurred across all racial, ethnic, and sex groups. In 2024, life expectancy at birth reached or surpassed prepandemic (2019) values for the first time for the non-Hispanic Asian, Black, and White populations. Life expectancy remained lower than it was in 2019 for the Hispanic and American Indian and Alaska Native non-Hispanic populations.

The American Indian and Alaska Native non-Hispanic population experienced the largest increases in life expectancy between 2023 and 2024 (1.0 year), but life expectancy remained 0.7 year lower than it was in 2019. Similarly, the Hispanic population experienced a life expectancy increase of 0.5 year between 2023 and 2024, but its life expectancy remained 0.1 year lower than it was in 2019. The Black non-Hispanic population gained 0.8 year in life expectancy between 2023 and 2024 and attained the life expectancy it had in 2019. The White non-Hispanic and Asian non-Hispanic populations

gained 0.5 year and 0.6 year in life expectancy between 2023 and 2024, respectively, and surpassed their 2019 life expectancy by 0.1 year and 0.2 year, respectively.

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Table 1. Life table for the total population: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table01.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.....	0.005531	100,000	553	99,515	7,897,103	79.0
1-2.....	0.000401	99,447	40	99,427	7,797,588	78.4
2-3.....	0.000260	99,407	26	99,394	7,698,161	77.4
3-4.....	0.000205	99,381	20	99,371	7,598,767	76.5
4-5.....	0.000166	99,361	16	99,353	7,499,396	75.5
5-6.....	0.000148	99,344	15	99,337	7,400,043	74.5
6-7.....	0.000135	99,330	13	99,323	7,300,707	73.5
7-8.....	0.000126	99,316	12	99,310	7,201,384	72.5
8-9.....	0.000115	99,304	11	99,298	7,102,074	71.5
9-10.....	0.000104	99,292	10	99,287	7,002,776	70.5
10-11.....	0.000098	99,282	10	99,277	6,903,489	69.5
11-12.....	0.000105	99,272	10	99,267	6,804,212	68.5
12-13.....	0.000137	99,262	14	99,255	6,704,945	67.5
13-14.....	0.000196	99,248	19	99,238	6,605,690	66.6
14-15.....	0.000274	99,229	27	99,215	6,506,452	65.6
15-16.....	0.000359	99,202	36	99,184	6,407,236	64.6
16-17.....	0.000439	99,166	44	99,144	6,308,053	63.6
17-18.....	0.000515	99,122	51	99,097	6,208,909	62.6
18-19.....	0.000583	99,071	58	99,042	6,109,812	61.7
19-20.....	0.000646	99,013	64	98,982	6,010,769	60.7
20-21.....	0.000714	98,950	71	98,914	5,911,788	59.7
21-22.....	0.000783	98,879	77	98,840	5,812,874	58.8
22-23.....	0.000841	98,802	83	98,760	5,714,033	57.8
23-24.....	0.000883	98,718	87	98,675	5,615,273	56.9
24-25.....	0.000915	98,631	90	98,586	5,516,599	55.9
25-26.....	0.000942	98,541	93	98,495	5,418,013	55.0
26-27.....	0.000978	98,448	96	98,400	5,319,518	54.0
27-28.....	0.001028	98,352	101	98,301	5,221,118	53.1
28-29.....	0.001099	98,251	108	98,197	5,122,817	52.1
29-30.....	0.001183	98,143	116	98,085	5,024,620	51.2
30-31.....	0.001269	98,027	124	97,965	4,926,535	50.3
31-32.....	0.001351	97,902	132	97,836	4,828,571	49.3
32-33.....	0.001430	97,770	140	97,700	4,730,734	48.4
33-34.....	0.001506	97,630	147	97,557	4,633,034	47.5
34-35.....	0.001583	97,483	154	97,406	4,535,477	46.5
35-36.....	0.001664	97,329	162	97,248	4,438,071	45.6
36-37.....	0.001753	97,167	170	97,082	4,340,823	44.7
37-38.....	0.001849	96,997	179	96,907	4,243,742	43.8
38-39.....	0.001955	96,817	189	96,723	4,146,834	42.8
39-40.....	0.002066	96,628	200	96,528	4,050,112	41.9
40-41.....	0.002190	96,428	211	96,323	3,953,584	41.0
41-42.....	0.002319	96,217	223	96,106	3,857,261	40.1
42-43.....	0.002440	95,994	234	95,877	3,761,155	39.2
43-44.....	0.002550	95,760	244	95,638	3,665,278	38.3
44-45.....	0.002661	95,516	254	95,389	3,569,640	37.4
45-46.....	0.002786	95,262	265	95,129	3,474,252	36.5
46-47.....	0.002942	94,996	279	94,856	3,379,123	35.6
47-48.....	0.003133	94,717	297	94,568	3,284,267	34.7
48-49.....	0.003359	94,420	317	94,261	3,189,699	33.8
49-50.....	0.003615	94,103	340	93,933	3,095,437	32.9
50-51.....	0.003898	93,763	366	93,580	3,001,505	32.0
51-52.....	0.004205	93,397	393	93,201	2,907,925	31.1
52-53.....	0.004529	93,004	421	92,794	2,814,724	30.3
53-54.....	0.004873	92,583	451	92,357	2,721,931	29.4
54-55.....	0.005252	92,132	484	91,890	2,629,573	28.5
55-56.....	0.005652	91,648	518	91,389	2,537,683	27.7
56-57.....	0.006104	91,130	556	90,852	2,446,294	26.8
57-58.....	0.006656	90,574	603	90,272	2,355,443	26.0
58-59.....	0.007316	89,971	658	89,642	2,265,170	25.2
59-60.....	0.008040	89,313	718	88,954	2,175,529	24.4

See footnotes at end of table.

Table 1. Life table for the total population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table01.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
60–61.....	0.008779	88,595	778	88,206	2,086,575	23.6
61–62.....	0.009511	87,817	835	87,399	1,998,369	22.8
62–63.....	0.010252	86,982	892	86,536	1,910,970	22.0
63–64.....	0.011021	86,090	949	85,616	1,824,434	21.2
64–65.....	0.011837	85,141	1,008	84,637	1,738,819	20.4
65–66.....	0.012723	84,133	1,070	83,598	1,654,181	19.7
66–67.....	0.013783	83,063	1,145	82,490	1,570,583	18.9
67–68.....	0.014771	81,918	1,210	81,313	1,488,093	18.2
68–69.....	0.015845	80,708	1,279	80,069	1,406,780	17.4
69–70.....	0.016966	79,429	1,348	78,755	1,326,711	16.7
70–71.....	0.018110	78,082	1,414	77,375	1,247,956	16.0
71–72.....	0.019489	76,668	1,494	75,920	1,170,581	15.3
72–73.....	0.021136	75,173	1,589	74,379	1,094,661	14.6
73–74.....	0.022936	73,584	1,688	72,741	1,020,282	13.9
74–75.....	0.025125	71,897	1,806	70,994	947,541	13.2
75–76.....	0.027586	70,090	1,934	69,124	876,548	12.5
76–77.....	0.030376	68,157	2,070	67,122	807,424	11.8
77–78.....	0.032830	66,086	2,170	65,002	740,303	11.2
78–79.....	0.037438	63,917	2,393	62,720	675,301	10.6
79–80.....	0.041077	61,524	2,527	60,260	612,581	10.0
80–81.....	0.046154	58,997	2,723	57,635	552,320	9.4
81–82.....	0.051126	56,274	2,877	54,835	494,685	8.8
82–83.....	0.057587	53,397	3,075	51,859	439,850	8.2
83–84.....	0.063598	50,322	3,200	48,722	387,991	7.7
84–85.....	0.070988	47,121	3,345	45,449	339,269	7.2
85–86.....	0.078467	43,776	3,435	42,059	293,821	6.7
86–87.....	0.088254	40,341	3,560	38,561	251,762	6.2
87–88.....	0.099057	36,781	3,643	34,959	213,201	5.8
88–89.....	0.110928	33,138	3,676	31,300	178,241	5.4
89–90.....	0.123911	29,462	3,651	27,636	146,942	5.0
90–91.....	0.138036	25,811	3,563	24,030	119,305	4.6
91–92.....	0.153317	22,248	3,411	20,543	95,276	4.3
92–93.....	0.169746	18,837	3,198	17,238	74,733	4.0
93–94.....	0.187293	15,640	2,929	14,175	57,495	3.7
94–95.....	0.205902	12,710	2,617	11,402	43,319	3.4
95–96.....	0.225491	10,093	2,276	8,955	31,918	3.2
96–97.....	0.245949	7,817	1,923	6,856	22,962	2.9
97–98.....	0.267138	5,895	1,575	5,107	16,106	2.7
98–99.....	0.288900	4,320	1,248	3,696	10,999	2.5
99–100.....	0.311054	3,072	956	2,594	7,303	2.4
100 and older.....	1.000000	2,116	2,116	4,709	4,709	2.2

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

Table 2. Life table for males: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table02.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.....	0.005886	100,000	589	99,487	7,652,825	76.5
1-2.....	0.000444	99,411	44	99,389	7,553,338	76.0
2-3.....	0.000289	99,367	29	99,353	7,453,949	75.0
3-4.....	0.000239	99,339	24	99,327	7,354,596	74.0
4-5.....	0.000177	99,315	18	99,306	7,255,269	73.1
5-6.....	0.000161	99,297	16	99,289	7,155,963	72.1
6-7.....	0.000149	99,281	15	99,274	7,056,674	71.1
7-8.....	0.000137	99,266	14	99,260	6,957,400	70.1
8-9.....	0.000122	99,253	12	99,247	6,858,141	69.1
9-10.....	0.000104	99,241	10	99,236	6,758,894	68.1
10-11.....	0.000092	99,230	9	99,226	6,659,658	67.1
11-12.....	0.000100	99,221	10	99,216	6,560,433	66.1
12-13.....	0.000146	99,211	14	99,204	6,461,216	65.1
13-14.....	0.000237	99,197	23	99,185	6,362,012	64.1
14-15.....	0.000358	99,173	36	99,156	6,262,827	63.2
15-16.....	0.000488	99,138	48	99,114	6,163,671	62.2
16-17.....	0.000612	99,089	61	99,059	6,064,558	61.2
17-18.....	0.000727	99,029	72	98,993	5,965,499	60.2
18-19.....	0.000831	98,957	82	98,916	5,866,506	59.3
19-20.....	0.000926	98,875	92	98,829	5,767,590	58.3
20-21.....	0.001028	98,783	102	98,732	5,668,761	57.4
21-22.....	0.001131	98,681	112	98,626	5,570,029	56.4
22-23.....	0.001217	98,570	120	98,510	5,471,403	55.5
23-24.....	0.001278	98,450	126	98,387	5,372,894	54.6
24-25.....	0.001322	98,324	130	98,259	5,274,507	53.6
25-26.....	0.001360	98,194	134	98,127	5,176,247	52.7
26-27.....	0.001407	98,061	138	97,992	5,078,120	51.8
27-28.....	0.001470	97,923	144	97,851	4,980,129	50.9
28-29.....	0.001556	97,779	152	97,703	4,882,278	49.9
29-30.....	0.001657	97,626	162	97,546	4,784,576	49.0
30-31.....	0.001759	97,465	171	97,379	4,687,030	48.1
31-32.....	0.001856	97,293	181	97,203	4,589,651	47.2
32-33.....	0.001949	97,113	189	97,018	4,492,448	46.3
33-34.....	0.002040	96,923	198	96,824	4,395,430	45.3
34-35.....	0.002133	96,726	206	96,622	4,298,606	44.4
35-36.....	0.002229	96,519	215	96,412	4,201,983	43.5
36-37.....	0.002334	96,304	225	96,192	4,105,572	42.6
37-38.....	0.002448	96,079	235	95,962	4,009,380	41.7
38-39.....	0.002574	95,844	247	95,721	3,913,418	40.8
39-40.....	0.002706	95,597	259	95,468	3,817,698	39.9
40-41.....	0.002855	95,339	272	95,203	3,722,230	39.0
41-42.....	0.003010	95,066	286	94,923	3,627,027	38.2
42-43.....	0.003152	94,780	299	94,631	3,532,104	37.3
43-44.....	0.003275	94,482	309	94,327	3,437,473	36.4
44-45.....	0.003395	94,172	320	94,012	3,343,146	35.5
45-46.....	0.003529	93,853	331	93,687	3,249,133	34.6
46-47.....	0.003703	93,521	346	93,348	3,155,447	33.7
47-48.....	0.003928	93,175	366	92,992	3,062,098	32.9
48-49.....	0.004209	92,809	391	92,614	2,969,107	32.0
49-50.....	0.004533	92,418	419	92,209	2,876,493	31.1
50-51.....	0.004894	91,999	450	91,774	2,784,284	30.3
51-52.....	0.005279	91,549	483	91,307	2,692,510	29.4
52-53.....	0.005680	91,066	517	90,807	2,601,203	28.6
53-54.....	0.006100	90,549	552	90,272	2,510,395	27.7
54-55.....	0.006559	89,996	590	89,701	2,420,123	26.9
55-56.....	0.007039	89,406	629	89,091	2,330,422	26.1
56-57.....	0.007582	88,777	673	88,440	2,241,331	25.2
57-58.....	0.008254	88,104	727	87,740	2,152,891	24.4
58-59.....	0.009068	87,376	792	86,980	2,065,151	23.6
59-60.....	0.009968	86,584	863	86,152	1,978,171	22.8

Table 2. Life table for males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table02.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
60–61.....	0.010888	85,721	933	85,254	1,892,018	22.1
61–62.....	0.011794	84,788	1,000	84,288	1,806,764	21.3
62–63.....	0.012706	83,788	1,065	83,255	1,722,476	20.6
63–64.....	0.013641	82,723	1,128	82,159	1,639,221	19.8
64–65.....	0.014627	81,595	1,194	80,998	1,557,062	19.1
65–66.....	0.015689	80,401	1,261	79,770	1,476,064	18.4
66–67.....	0.016983	79,140	1,344	78,468	1,396,293	17.6
67–68.....	0.018174	77,796	1,414	77,089	1,317,826	16.9
68–69.....	0.019493	76,382	1,489	75,637	1,240,737	16.2
69–70.....	0.020850	74,893	1,562	74,112	1,165,099	15.6
70–71.....	0.022217	73,331	1,629	72,517	1,090,987	14.9
71–72.....	0.023870	71,702	1,712	70,846	1,018,470	14.2
72–73.....	0.025771	69,991	1,804	69,089	947,624	13.5
73–74.....	0.027815	68,187	1,897	67,239	878,535	12.9
74–75.....	0.030162	66,290	1,999	65,291	811,296	12.2
75–76.....	0.032905	64,291	2,115	63,233	746,006	11.6
76–77.....	0.035853	62,175	2,229	61,061	682,773	11.0
77–78.....	0.038564	59,946	2,312	58,790	621,712	10.4
78–79.....	0.043719	57,635	2,520	56,375	562,921	9.8
79–80.....	0.048014	55,115	2,646	53,792	506,547	9.2
80–81.....	0.053909	52,469	2,829	51,054	452,755	8.6
81–82.....	0.059306	49,640	2,944	48,168	401,701	8.1
82–83.....	0.066965	46,696	3,127	45,133	353,533	7.6
83–84.....	0.073424	43,569	3,199	41,969	308,400	7.1
84–85.....	0.082267	40,370	3,321	38,709	266,431	6.6
85–86.....	0.090583	37,049	3,356	35,371	227,721	6.1
86–87.....	0.100272	33,693	3,378	32,004	192,350	5.7
87–88.....	0.112582	30,314	3,413	28,608	160,347	5.3
88–89.....	0.126066	26,902	3,391	25,206	131,739	4.9
89–90.....	0.140756	23,510	3,309	21,856	106,533	4.5
90–91.....	0.156662	20,201	3,165	18,619	84,677	4.2
91–92.....	0.173770	17,036	2,960	15,556	66,059	3.9
92–93.....	0.192044	14,076	2,703	12,724	50,503	3.6
93–94.....	0.211415	11,373	2,404	10,171	37,778	3.3
94–95.....	0.231786	8,968	2,079	7,929	27,608	3.1
95–96.....	0.253029	6,890	1,743	6,018	19,679	2.9
96–97.....	0.274988	5,146	1,415	4,439	13,661	2.7
97–98.....	0.297481	3,731	1,110	3,176	9,222	2.5
98–99.....	0.320310	2,621	840	2,201	6,046	2.3
99–100.....	0.343262	1,782	612	1,476	3,845	2.2
100 and older.....	1.000000	1,170	1,170	2,369	2,369	2.0

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

Table 3. Life table for females: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table03.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.....	0.005161	100,000	516	99,545	8,144,569	81.4
1-2.....	0.000356	99,484	35	99,466	8,045,024	80.9
2-3.....	0.000229	99,449	23	99,437	7,945,558	79.9
3-4.....	0.000170	99,426	17	99,417	7,846,120	78.9
4-5.....	0.000155	99,409	15	99,401	7,746,703	77.9
5-6.....	0.000134	99,393	13	99,387	7,647,302	76.9
6-7.....	0.000122	99,380	12	99,374	7,547,915	75.9
7-8.....	0.000113	99,368	11	99,362	7,448,541	75.0
8-9.....	0.000107	99,357	11	99,351	7,349,179	74.0
9-10.....	0.000104	99,346	10	99,341	7,249,828	73.0
10-11.....	0.000104	99,336	10	99,331	7,150,487	72.0
11-12.....	0.000111	99,325	11	99,320	7,051,156	71.0
12-13.....	0.000127	99,314	13	99,308	6,951,836	70.0
13-14.....	0.000153	99,302	15	99,294	6,852,528	69.0
14-15.....	0.000186	99,287	18	99,277	6,753,234	68.0
15-16.....	0.000223	99,268	22	99,257	6,653,957	67.0
16-17.....	0.000259	99,246	26	99,233	6,554,700	66.0
17-18.....	0.000293	99,220	29	99,206	6,455,466	65.1
18-19.....	0.000323	99,191	32	99,175	6,356,260	64.1
19-20.....	0.000352	99,159	35	99,142	6,257,085	63.1
20-21.....	0.000384	99,124	38	99,105	6,157,943	62.1
21-22.....	0.000418	99,086	41	99,066	6,058,838	61.1
22-23.....	0.000448	99,045	44	99,023	5,959,772	60.2
23-24.....	0.000471	99,000	47	98,977	5,860,750	59.2
24-25.....	0.000491	98,954	49	98,930	5,761,772	58.2
25-26.....	0.000510	98,905	50	98,880	5,662,843	57.3
26-27.....	0.000535	98,855	53	98,828	5,563,963	56.3
27-28.....	0.000574	98,802	57	98,774	5,465,135	55.3
28-29.....	0.000629	98,745	62	98,714	5,366,361	54.3
29-30.....	0.000696	98,683	69	98,649	5,267,647	53.4
30-31.....	0.000767	98,614	76	98,577	5,168,998	52.4
31-32.....	0.000834	98,539	82	98,498	5,070,422	51.5
32-33.....	0.000899	98,457	88	98,412	4,971,924	50.5
33-34.....	0.000960	98,368	94	98,321	4,873,512	49.5
34-35.....	0.001021	98,274	100	98,223	4,775,191	48.6
35-36.....	0.001087	98,173	107	98,120	4,676,967	47.6
36-37.....	0.001159	98,067	114	98,010	4,578,847	46.7
37-38.....	0.001238	97,953	121	97,892	4,480,838	45.7
38-39.....	0.001323	97,832	129	97,767	4,382,945	44.8
39-40.....	0.001413	97,702	138	97,633	4,285,178	43.9
40-41.....	0.001512	97,564	148	97,490	4,187,545	42.9
41-42.....	0.001617	97,417	157	97,338	4,090,055	42.0
42-43.....	0.001719	97,259	167	97,176	3,992,717	41.1
43-44.....	0.001818	97,092	177	97,004	3,895,541	40.1
44-45.....	0.001922	96,915	186	96,822	3,798,537	39.2
45-46.....	0.002041	96,729	197	96,631	3,701,715	38.3
46-47.....	0.002182	96,532	211	96,427	3,605,084	37.3
47-48.....	0.002341	96,321	225	96,208	3,508,658	36.4
48-49.....	0.002514	96,096	242	95,975	3,412,449	35.5
49-50.....	0.002702	95,854	259	95,725	3,316,475	34.6
50-51.....	0.002909	95,595	278	95,456	3,220,750	33.7
51-52.....	0.003139	95,317	299	95,167	3,125,294	32.8
52-53.....	0.003387	95,018	322	94,857	3,030,126	31.9
53-54.....	0.003658	94,696	346	94,523	2,935,269	31.0
54-55.....	0.003962	94,350	374	94,163	2,840,746	30.1
55-56.....	0.004287	93,976	403	93,774	2,746,584	29.2
56-57.....	0.004653	93,573	435	93,355	2,652,809	28.4
57-58.....	0.005094	93,138	474	92,900	2,559,454	27.5
58-59.....	0.005611	92,663	520	92,403	2,466,553	26.6
59-60.....	0.006175	92,143	569	91,859	2,374,150	25.8

See footnotes at end of table.

Table 3. Life table for females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table03.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
60–61.....	0.006751	91,574	618	91,265	2,282,292	24.9
61–62.....	0.007328	90,956	667	90,623	2,191,026	24.1
62–63.....	0.007922	90,289	715	89,932	2,100,404	23.3
63–64.....	0.008548	89,574	766	89,191	2,010,472	22.4
64–65.....	0.009222	88,809	819	88,399	1,921,280	21.6
65–66.....	0.009963	87,990	877	87,551	1,832,881	20.8
66–67.....	0.010839	87,113	944	86,641	1,745,330	20.0
67–68.....	0.011666	86,169	1,005	85,666	1,658,689	19.2
68–69.....	0.012552	85,163	1,069	84,629	1,573,023	18.5
69–70.....	0.013498	84,094	1,135	83,527	1,488,394	17.7
70–71.....	0.014470	82,959	1,200	82,359	1,404,867	16.9
71–72.....	0.015649	81,759	1,279	81,119	1,322,508	16.2
72–73.....	0.017112	80,480	1,377	79,791	1,241,389	15.4
73–74.....	0.018741	79,102	1,482	78,361	1,161,598	14.7
74–75.....	0.020826	77,620	1,617	76,812	1,083,237	14.0
75–76.....	0.023080	76,003	1,754	75,126	1,006,425	13.2
76–77.....	0.025764	74,249	1,913	73,293	931,299	12.5
77–78.....	0.028037	72,336	2,028	71,322	858,006	11.9
78–79.....	0.032269	70,308	2,269	69,174	786,684	11.2
79–80.....	0.035463	68,039	2,413	66,833	717,510	10.5
80–81.....	0.040007	65,626	2,626	64,314	650,677	9.9
81–82.....	0.044761	63,001	2,820	61,591	586,364	9.3
82–83.....	0.050473	60,181	3,037	58,662	524,773	8.7
83–84.....	0.056333	57,143	3,219	55,534	466,110	8.2
84–85.....	0.062861	53,924	3,390	52,230	410,576	7.6
85–86.....	0.070216	50,535	3,548	48,761	358,347	7.1
86–87.....	0.079436	46,986	3,732	45,120	309,586	6.6
87–88.....	0.089684	43,254	3,879	41,314	264,466	6.1
88–89.....	0.101026	39,375	3,978	37,386	223,152	5.7
89–90.....	0.113521	35,397	4,018	33,388	185,766	5.2
90–91.....	0.127213	31,379	3,992	29,383	152,378	4.9
91–92.....	0.142133	27,387	3,893	25,441	122,996	4.5
92–93.....	0.158288	23,494	3,719	21,635	97,555	4.2
93–94.....	0.175666	19,775	3,474	18,038	75,920	3.8
94–95.....	0.194222	16,302	3,166	14,718	57,882	3.6
95–96.....	0.213884	13,135	2,809	11,731	43,163	3.3
96–97.....	0.234549	10,326	2,422	9,115	31,433	3.0
97–98.....	0.256081	7,904	2,024	6,892	22,318	2.8
98–99.....	0.278317	5,880	1,636	5,062	15,426	2.6
99–100.....	0.301068	4,243	1,278	3,605	10,364	2.4
100 and older.....	1.000000	2,966	2,966	6,759	6,759	2.3

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

Table 4. Life table for the Hispanic population: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table04.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.....	0.004903	100,000	490	99,562	8,181,387	81.8
1-2.....	0.000326	99,510	32	99,493	8,081,825	81.2
2-3.....	0.000224	99,477	22	99,466	7,982,331	80.2
3-4.....	0.000161	99,455	16	99,447	7,882,865	79.3
4-5.....	0.000144	99,439	14	99,432	7,783,418	78.3
5-6.....	0.000126	99,425	13	99,418	7,683,987	77.3
6-7.....	0.000116	99,412	12	99,406	7,584,568	76.3
7-8.....	0.000109	99,401	11	99,395	7,485,162	75.3
8-9.....	0.000100	99,390	10	99,385	7,385,767	74.3
9-10.....	0.000090	99,380	9	99,375	7,286,382	73.3
10-11.....	0.000085	99,371	8	99,367	7,187,007	72.3
11-12.....	0.000092	99,362	9	99,358	7,087,640	71.3
12-13.....	0.000121	99,353	12	99,347	6,988,282	70.3
13-14.....	0.000175	99,341	17	99,332	6,888,935	69.3
14-15.....	0.000246	99,324	24	99,312	6,789,603	68.4
15-16.....	0.000322	99,299	32	99,283	6,690,291	67.4
16-17.....	0.000393	99,267	39	99,248	6,591,008	66.4
17-18.....	0.000462	99,228	46	99,205	6,491,760	65.4
18-19.....	0.000529	99,182	52	99,156	6,392,555	64.5
19-20.....	0.000594	99,130	59	99,101	6,293,398	63.5
20-21.....	0.000666	99,071	66	99,038	6,194,298	62.5
21-22.....	0.000740	99,005	73	98,969	6,095,259	61.6
22-23.....	0.000806	98,932	80	98,892	5,996,291	60.6
23-24.....	0.000860	98,852	85	98,810	5,897,399	59.7
24-25.....	0.000904	98,767	89	98,723	5,798,589	58.7
25-26.....	0.000945	98,678	93	98,631	5,699,867	57.8
26-27.....	0.000990	98,585	98	98,536	5,601,235	56.8
27-28.....	0.001041	98,487	102	98,436	5,502,699	55.9
28-29.....	0.001099	98,385	108	98,330	5,404,264	54.9
29-30.....	0.001162	98,276	114	98,219	5,305,933	54.0
30-31.....	0.001225	98,162	120	98,102	5,207,714	53.1
31-32.....	0.001284	98,042	126	97,979	5,109,612	52.1
32-33.....	0.001338	97,916	131	97,851	5,011,633	51.2
33-34.....	0.001387	97,785	136	97,717	4,913,782	50.3
34-35.....	0.001433	97,650	140	97,580	4,816,065	49.3
35-36.....	0.001481	97,510	144	97,437	4,718,485	48.4
36-37.....	0.001533	97,365	149	97,291	4,621,048	47.5
37-38.....	0.001588	97,216	154	97,139	4,523,757	46.5
38-39.....	0.001645	97,062	160	96,982	4,426,619	45.6
39-40.....	0.001704	96,902	165	96,819	4,329,637	44.7
40-41.....	0.001766	96,737	171	96,651	4,232,818	43.8
41-42.....	0.001833	96,566	177	96,477	4,136,166	42.8
42-43.....	0.001909	96,389	184	96,297	4,039,689	41.9
43-44.....	0.001998	96,205	192	96,109	3,943,392	41.0
44-45.....	0.002101	96,013	202	95,912	3,847,283	40.1
45-46.....	0.002218	95,811	213	95,705	3,751,371	39.2
46-47.....	0.002347	95,599	224	95,486	3,655,666	38.2
47-48.....	0.002490	95,374	237	95,255	3,560,180	37.3
48-49.....	0.002646	95,137	252	95,011	3,464,925	36.4
49-50.....	0.002815	94,885	267	94,751	3,369,914	35.5
50-51.....	0.003001	94,618	284	94,476	3,275,162	34.6
51-52.....	0.003204	94,334	302	94,183	3,180,686	33.7
52-53.....	0.003426	94,032	322	93,871	3,086,504	32.8
53-54.....	0.003670	93,710	344	93,538	2,992,633	31.9
54-55.....	0.003942	93,366	368	93,182	2,899,095	31.1
55-56.....	0.004232	92,998	394	92,801	2,805,914	30.2
56-57.....	0.004552	92,604	422	92,393	2,713,113	29.3
57-58.....	0.004932	92,183	455	91,955	2,620,720	28.4
58-59.....	0.005381	91,728	494	91,481	2,528,764	27.6
59-60.....	0.005887	91,234	537	90,966	2,437,283	26.7

Table 4. Life table for the Hispanic population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table04.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
60–61.....	0.006439	90,697	584	90,405	2,346,317	25.9
61–62.....	0.007012	90,113	632	89,797	2,255,912	25.0
62–63.....	0.007582	89,481	678	89,142	2,166,115	24.2
63–64.....	0.008139	88,803	723	88,441	2,076,973	23.4
64–65.....	0.008706	88,080	767	87,697	1,988,532	22.6
65–66.....	0.009319	87,313	814	86,906	1,900,835	21.8
66–67.....	0.010007	86,500	866	86,067	1,813,928	21.0
67–68.....	0.010777	85,634	923	85,173	1,727,862	20.2
68–69.....	0.011642	84,711	986	84,218	1,642,689	19.4
69–70.....	0.012612	83,725	1,056	83,197	1,558,471	18.6
70–71.....	0.013688	82,669	1,132	82,103	1,475,274	17.8
71–72.....	0.014889	81,537	1,214	80,930	1,393,171	17.1
72–73.....	0.016235	80,323	1,304	79,671	1,312,241	16.3
73–74.....	0.017733	79,019	1,401	78,319	1,232,569	15.6
74–75.....	0.019384	77,618	1,505	76,866	1,154,251	14.9
75–76.....	0.021201	76,114	1,614	75,307	1,077,385	14.2
76–77.....	0.023186	74,500	1,727	73,636	1,002,078	13.5
77–78.....	0.025272	72,773	1,839	71,853	928,442	12.8
78–79.....	0.028286	70,933	2,006	69,930	856,589	12.1
79–80.....	0.031219	68,927	2,152	67,851	786,659	11.4
80–81.....	0.035134	66,775	2,346	65,602	718,808	10.8
81–82.....	0.039109	64,429	2,520	63,169	653,206	10.1
82–83.....	0.044199	61,909	2,736	60,541	590,037	9.5
83–84.....	0.049036	59,173	2,902	57,722	529,496	8.9
84–85.....	0.054930	56,271	3,091	54,726	471,773	8.4
85–86.....	0.060207	53,180	3,202	51,579	417,047	7.8
86–87.....	0.068079	49,979	3,403	48,277	365,468	7.3
87–88.....	0.076833	46,576	3,579	44,787	317,191	6.8
88–89.....	0.086527	42,998	3,720	41,137	272,404	6.3
89–90.....	0.097213	39,277	3,818	37,368	231,267	5.9
90–91.....	0.108936	35,459	3,863	33,527	193,899	5.5
91–92.....	0.121724	31,596	3,846	29,673	160,371	5.1
92–93.....	0.135594	27,750	3,763	25,869	130,698	4.7
93–94.....	0.150538	23,987	3,611	22,182	104,829	4.4
94–95.....	0.166530	20,376	3,393	18,680	82,648	4.1
95–96.....	0.183515	16,983	3,117	15,425	63,968	3.8
96–97.....	0.201413	13,866	2,793	12,470	48,543	3.5
97–98.....	0.220117	11,074	2,437	9,855	36,073	3.3
98–99.....	0.239495	8,636	2,068	7,602	26,218	3.0
99–100.....	0.259389	6,568	1,704	5,716	18,616	2.8
100 and older.....	1.000000	4,864	4,864	12,900	12,900	2.7

NOTES: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates. Updated classification ratios were applied; see Technical Notes in this report. People of Hispanic origin may be of any race.

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

Table 5. Life table for Hispanic males: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table05.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.....	0.005125	100,000	512	99,542	7,917,420	79.2
1-2.....	0.000325	99,488	32	99,471	7,817,878	78.6
2-3.....	0.000256	99,455	25	99,443	7,718,407	77.6
3-4.....	0.000164	99,430	16	99,422	7,618,964	76.6
4-5.....	0.000131	99,413	13	99,407	7,519,543	75.6
5-6.....	0.000132	99,400	13	99,394	7,420,136	74.6
6-7.....	0.000125	99,387	12	99,381	7,320,742	73.7
7-8.....	0.000117	99,375	12	99,369	7,221,361	72.7
8-9.....	0.000104	99,363	10	99,358	7,121,992	71.7
9-10.....	0.000087	99,353	9	99,349	7,022,634	70.7
10-11.....	0.000075	99,344	7	99,341	6,923,285	69.7
11-12.....	0.000082	99,337	8	99,333	6,823,944	68.7
12-13.....	0.000122	99,329	12	99,323	6,724,612	67.7
13-14.....	0.000204	99,317	20	99,306	6,625,289	66.7
14-15.....	0.000312	99,296	31	99,281	6,525,982	65.7
15-16.....	0.000428	99,265	42	99,244	6,426,702	64.7
16-17.....	0.000536	99,223	53	99,196	6,327,457	63.8
17-18.....	0.000640	99,170	63	99,138	6,228,261	62.8
18-19.....	0.000738	99,106	73	99,070	6,129,123	61.8
19-20.....	0.000835	99,033	83	98,992	6,030,054	60.9
20-21.....	0.000939	98,950	93	98,904	5,931,062	59.9
21-22.....	0.001047	98,857	104	98,806	5,832,158	59.0
22-23.....	0.001151	98,754	114	98,697	5,733,352	58.1
23-24.....	0.001244	98,640	123	98,579	5,634,655	57.1
24-25.....	0.001328	98,518	131	98,452	5,536,076	56.2
25-26.....	0.001411	98,387	139	98,317	5,437,624	55.3
26-27.....	0.001497	98,248	147	98,174	5,339,307	54.3
27-28.....	0.001580	98,101	155	98,023	5,241,133	53.4
28-29.....	0.001660	97,946	163	97,864	5,143,110	52.5
29-30.....	0.001734	97,783	170	97,698	5,045,245	51.6
30-31.....	0.001804	97,614	176	97,526	4,947,547	50.7
31-32.....	0.001871	97,437	182	97,346	4,850,021	49.8
32-33.....	0.001933	97,255	188	97,161	4,752,675	48.9
33-34.....	0.001990	97,067	193	96,971	4,655,514	48.0
34-35.....	0.002046	96,874	198	96,775	4,558,543	47.1
35-36.....	0.002102	96,676	203	96,574	4,461,768	46.2
36-37.....	0.002160	96,473	208	96,368	4,365,194	45.2
37-38.....	0.002227	96,264	214	96,157	4,268,826	44.3
38-39.....	0.002305	96,050	221	95,939	4,172,669	43.4
39-40.....	0.002391	95,828	229	95,714	4,076,730	42.5
40-41.....	0.002484	95,599	238	95,480	3,981,016	41.6
41-42.....	0.002580	95,362	246	95,239	3,885,535	40.7
42-43.....	0.002672	95,116	254	94,989	3,790,297	39.8
43-44.....	0.002760	94,861	262	94,731	3,695,308	39.0
44-45.....	0.002850	94,600	270	94,465	3,600,578	38.1
45-46.....	0.002948	94,330	278	94,191	3,506,113	37.2
46-47.....	0.003066	94,052	288	93,908	3,411,922	36.3
47-48.....	0.003217	93,764	302	93,613	3,318,014	35.4
48-49.....	0.003411	93,462	319	93,303	3,224,401	34.5
49-50.....	0.003641	93,143	339	92,974	3,131,099	33.6
50-51.....	0.003897	92,804	362	92,623	3,038,125	32.7
51-52.....	0.004171	92,442	386	92,250	2,945,502	31.9
52-53.....	0.004461	92,057	411	91,851	2,853,253	31.0
53-54.....	0.004767	91,646	437	91,428	2,761,401	30.1
54-55.....	0.005094	91,209	465	90,977	2,669,974	29.3
55-56.....	0.005441	90,745	494	90,498	2,578,997	28.4
56-57.....	0.005828	90,251	526	89,988	2,488,499	27.6
57-58.....	0.006284	89,725	564	89,443	2,398,511	26.7
58-59.....	0.006827	89,161	609	88,857	2,309,068	25.9
59-60.....	0.007445	88,552	659	88,223	2,220,212	25.1

See footnotes at end of table.

Table 5. Life table for Hispanic males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table05.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
60–61.....	0.008117	87,893	713	87,536	2,131,989	24.3
61–62.....	0.008819	87,179	769	86,795	2,044,453	23.5
62–63.....	0.009549	86,411	825	85,998	1,957,658	22.7
63–64.....	0.010306	85,585	882	85,144	1,871,660	21.9
64–65.....	0.011107	84,703	941	84,233	1,786,516	21.1
65–66.....	0.011993	83,763	1,005	83,260	1,702,283	20.3
66–67.....	0.012969	82,758	1,073	82,221	1,619,023	19.6
67–68.....	0.014004	81,685	1,144	81,113	1,536,801	18.8
68–69.....	0.015082	80,541	1,215	79,934	1,455,689	18.1
69–70.....	0.016217	79,326	1,286	78,683	1,375,755	17.3
70–71.....	0.017457	78,040	1,362	77,359	1,297,072	16.6
71–72.....	0.018848	76,677	1,445	75,955	1,219,714	15.9
72–73.....	0.020387	75,232	1,534	74,465	1,143,759	15.2
73–74.....	0.022073	73,698	1,627	72,885	1,069,293	14.5
74–75.....	0.023903	72,072	1,723	71,210	996,408	13.8
75–76.....	0.025880	70,349	1,821	69,439	925,198	13.2
76–77.....	0.028013	68,528	1,920	67,569	855,759	12.5
77–78.....	0.030273	66,609	2,016	65,600	788,191	11.8
78–79.....	0.033622	64,592	2,172	63,506	722,590	11.2
79–80.....	0.037044	62,421	2,312	61,264	659,084	10.6
80–81.....	0.041606	60,108	2,501	58,858	597,820	9.9
81–82.....	0.046082	57,607	2,655	56,280	538,962	9.4
82–83.....	0.052132	54,953	2,865	53,520	482,682	8.8
83–84.....	0.057408	52,088	2,990	50,593	429,161	8.2
84–85.....	0.064456	49,098	3,165	47,515	378,569	7.7
85–86.....	0.070962	45,933	3,259	44,303	331,053	7.2
86–87.....	0.077489	42,673	3,307	41,020	286,750	6.7
87–88.....	0.087525	39,367	3,446	37,644	245,730	6.2
88–89.....	0.098611	35,921	3,542	34,150	208,086	5.8
89–90.....	0.110792	32,379	3,587	30,585	173,936	5.4
90–91.....	0.124098	28,792	3,573	27,005	143,351	5.0
91–92.....	0.138539	25,219	3,494	23,472	116,346	4.6
92–93.....	0.154104	21,725	3,348	20,051	92,874	4.3
93–94.....	0.170755	18,377	3,138	16,808	72,823	4.0
94–95.....	0.188423	15,239	2,871	13,803	56,015	3.7
95–96.....	0.207011	12,368	2,560	11,088	42,212	3.4
96–97.....	0.226392	9,807	2,220	8,697	31,124	3.2
97–98.....	0.246410	7,587	1,870	6,652	22,427	3.0
98–99.....	0.266885	5,718	1,526	4,955	15,775	2.8
99–100.....	0.287620	4,192	1,206	3,589	10,820	2.6
100 and older.....	1.000000	2,986	2,986	7,231	7,231	2.4

NOTES: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates. Updated classification ratios were applied; see Technical Notes in this report. People of Hispanic origin may be of any race.

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

Table 6. Life table for Hispanic females: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table06.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.....	0.004673	100,000	467	99,584	8,429,755	84.3
1-2.....	0.000322	99,533	32	99,517	8,330,172	83.7
2-3.....	0.000186	99,501	19	99,491	8,230,655	82.7
3-4.....	0.000155	99,482	15	99,474	8,131,164	81.7
4-5.....	0.000155	99,467	15	99,459	8,031,690	80.7
5-6.....	0.000118	99,451	12	99,445	7,932,231	79.8
6-7.....	0.000106	99,440	11	99,434	7,832,785	78.8
7-8.....	0.000098	99,429	10	99,424	7,733,351	77.8
8-9.....	0.000094	99,419	9	99,415	7,633,927	76.8
9-10.....	0.000091	99,410	9	99,405	7,534,512	75.8
10-11.....	0.000092	99,401	9	99,396	7,435,107	74.8
11-12.....	0.000100	99,392	10	99,387	7,335,711	73.8
12-13.....	0.000116	99,382	12	99,376	7,236,324	72.8
13-14.....	0.000142	99,370	14	99,363	7,136,948	71.8
14-15.....	0.000175	99,356	17	99,347	7,037,585	70.8
15-16.....	0.000209	99,339	21	99,328	6,938,238	69.8
16-17.....	0.000243	99,318	24	99,306	6,838,909	68.9
17-18.....	0.000275	99,294	27	99,280	6,739,604	67.9
18-19.....	0.000306	99,266	30	99,251	6,640,323	66.9
19-20.....	0.000337	99,236	33	99,219	6,541,072	65.9
20-21.....	0.000372	99,203	37	99,184	6,441,853	64.9
21-22.....	0.000407	99,166	40	99,146	6,342,669	64.0
22-23.....	0.000434	99,125	43	99,104	6,243,523	63.0
23-24.....	0.000449	99,082	44	99,060	6,144,419	62.0
24-25.....	0.000455	99,038	45	99,015	6,045,359	61.0
25-26.....	0.000457	98,993	45	98,970	5,946,344	60.1
26-27.....	0.000464	98,948	46	98,925	5,847,373	59.1
27-28.....	0.000482	98,902	48	98,878	5,748,449	58.1
28-29.....	0.000517	98,854	51	98,829	5,649,571	57.2
29-30.....	0.000565	98,803	56	98,775	5,550,742	56.2
30-31.....	0.000616	98,747	61	98,717	5,451,967	55.2
31-32.....	0.000663	98,686	65	98,654	5,353,250	54.2
32-33.....	0.000706	98,621	70	98,586	5,254,597	53.3
33-34.....	0.000742	98,551	73	98,515	5,156,011	52.3
34-35.....	0.000775	98,478	76	98,440	5,057,496	51.4
35-36.....	0.000813	98,402	80	98,362	4,959,056	50.4
36-37.....	0.000856	98,322	84	98,280	4,860,694	49.4
37-38.....	0.000896	98,238	88	98,194	4,762,414	48.5
38-39.....	0.000932	98,150	91	98,104	4,664,220	47.5
39-40.....	0.000965	98,058	95	98,011	4,566,116	46.6
40-41.....	0.000996	97,964	98	97,915	4,468,105	45.6
41-42.....	0.001036	97,866	101	97,815	4,370,191	44.7
42-43.....	0.001097	97,765	107	97,711	4,272,375	43.7
43-44.....	0.001188	97,657	116	97,599	4,174,664	42.7
44-45.....	0.001304	97,541	127	97,478	4,077,065	41.8
45-46.....	0.001439	97,414	140	97,344	3,979,587	40.9
46-47.....	0.001577	97,274	153	97,197	3,882,243	39.9
47-48.....	0.001711	97,121	166	97,038	3,785,045	39.0
48-49.....	0.001831	96,955	178	96,866	3,688,008	38.0
49-50.....	0.001943	96,777	188	96,683	3,591,142	37.1
50-51.....	0.002061	96,589	199	96,489	3,494,459	36.2
51-52.....	0.002199	96,390	212	96,284	3,397,969	35.3
52-53.....	0.002356	96,178	227	96,065	3,301,686	34.3
53-54.....	0.002541	95,951	244	95,830	3,205,621	33.4
54-55.....	0.002757	95,708	264	95,576	3,109,791	32.5
55-56.....	0.002988	95,444	285	95,301	3,014,216	31.6
56-57.....	0.003243	95,159	309	95,004	2,918,914	30.7
57-58.....	0.003548	94,850	336	94,682	2,823,910	29.8
58-59.....	0.003910	94,513	370	94,329	2,729,228	28.9
59-60.....	0.004315	94,144	406	93,941	2,634,900	28.0

Table 6. Life table for Hispanic females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table06.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
60–61.....	0.004763	93,738	447	93,514	2,540,959	27.1
61–62.....	0.005225	93,291	487	93,048	2,447,444	26.2
62–63.....	0.005661	92,804	525	92,541	2,354,397	25.4
63–64.....	0.006057	92,278	559	91,999	2,261,856	24.5
64–65.....	0.006437	91,719	590	91,424	2,169,857	23.7
65–66.....	0.006839	91,129	623	90,817	2,078,433	22.8
66–67.....	0.007311	90,506	662	90,175	1,987,615	22.0
67–68.....	0.007888	89,844	709	89,490	1,897,440	21.1
68–69.....	0.008607	89,135	767	88,752	1,807,950	20.3
69–70.....	0.009469	88,368	837	87,950	1,719,198	19.5
70–71.....	0.010445	87,532	914	87,074	1,631,249	18.6
71–72.....	0.011532	86,617	999	86,118	1,544,174	17.8
72–73.....	0.012764	85,618	1,093	85,072	1,458,056	17.0
73–74.....	0.014149	84,526	1,196	83,928	1,372,984	16.2
74–75.....	0.015697	83,330	1,308	82,676	1,289,057	15.5
75–76.....	0.017422	82,022	1,429	81,307	1,206,381	14.7
76–77.....	0.019333	80,593	1,558	79,814	1,125,074	14.0
77–78.....	0.021341	79,035	1,687	78,191	1,045,261	13.2
78–79.....	0.024206	77,348	1,872	76,412	967,069	12.5
79–80.....	0.026892	75,476	2,030	74,461	890,658	11.8
80–81.....	0.030534	73,446	2,243	72,325	816,197	11.1
81–82.....	0.034398	71,203	2,449	69,979	743,872	10.4
82–83.....	0.039097	68,754	2,688	67,410	673,894	9.8
83–84.....	0.043989	66,066	2,906	64,613	606,484	9.2
84–85.....	0.049483	63,160	3,125	61,597	541,871	8.6
85–86.....	0.055102	60,035	3,308	58,381	480,273	8.0
86–87.....	0.062963	56,727	3,572	54,941	421,893	7.4
87–88.....	0.071801	53,155	3,817	51,247	366,952	6.9
88–89.....	0.081695	49,338	4,031	47,323	315,706	6.4
89–90.....	0.092718	45,308	4,201	43,207	268,383	5.9
90–91.....	0.104935	41,107	4,314	38,950	225,176	5.5
91–92.....	0.118396	36,793	4,356	34,615	186,226	5.1
92–93.....	0.133135	32,437	4,318	30,278	151,611	4.7
93–94.....	0.149159	28,119	4,194	26,021	121,333	4.3
94–95.....	0.166450	23,924	3,982	21,933	95,311	4.0
95–96.....	0.184957	19,942	3,688	18,098	73,378	3.7
96–97.....	0.204594	16,254	3,325	14,591	55,280	3.4
97–98.....	0.225239	12,928	2,912	11,472	40,689	3.1
98–99.....	0.246735	10,016	2,471	8,781	29,217	2.9
99–100.....	0.268897	7,545	2,029	6,531	20,436	2.7
100 and older.....	1.000000	5,516	5,516	13,905	13,905	2.5

NOTES: 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. People of Hispanic origin may be of any race.

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, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table07.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.....	0.009166	100,000	917	99,236	7,114,929	71.1
1-2.....	0.001060	99,083	105	99,031	7,015,693	70.8
2-3.....	0.000597	98,978	59	98,949	6,916,662	69.9
3-4.....	0.000306	98,919	30	98,904	6,817,713	68.9
4-5.....	0.000418	98,889	41	98,868	6,718,809	67.9
5-6.....	0.000344	98,848	34	98,831	6,619,940	67.0
6-7.....	0.000324	98,814	32	98,798	6,521,109	66.0
7-8.....	0.000298	98,782	29	98,767	6,422,312	65.0
8-9.....	0.000258	98,752	26	98,740	6,323,545	64.0
9-10.....	0.000211	98,727	21	98,716	6,224,805	63.1
10-11.....	0.000171	98,706	17	98,698	6,126,089	62.1
11-12.....	0.000167	98,689	17	98,681	6,027,391	61.1
12-13.....	0.000229	98,673	23	98,661	5,928,710	60.1
13-14.....	0.000370	98,650	36	98,632	5,830,049	59.1
14-15.....	0.000566	98,614	56	98,586	5,731,417	58.1
15-16.....	0.000783	98,558	77	98,519	5,632,832	57.2
16-17.....	0.000994	98,481	98	98,432	5,534,313	56.2
17-18.....	0.001202	98,383	118	98,324	5,435,881	55.3
18-19.....	0.001405	98,264	138	98,195	5,337,557	54.3
19-20.....	0.001609	98,126	158	98,047	5,239,362	53.4
20-21.....	0.001828	97,969	179	97,879	5,141,315	52.5
21-22.....	0.002063	97,789	202	97,689	5,043,436	51.6
22-23.....	0.002300	97,588	224	97,476	4,945,747	50.7
23-24.....	0.002533	97,363	247	97,240	4,848,271	49.8
24-25.....	0.002763	97,117	268	96,983	4,751,031	48.9
25-26.....	0.003004	96,848	291	96,703	4,654,049	48.1
26-27.....	0.003253	96,557	314	96,400	4,557,346	47.2
27-28.....	0.003479	96,243	335	96,076	4,460,946	46.4
28-29.....	0.003665	95,909	352	95,733	4,364,870	45.5
29-30.....	0.003823	95,557	365	95,374	4,269,137	44.7
30-31.....	0.003946	95,192	376	95,004	4,173,762	43.8
31-32.....	0.004082	94,816	387	94,623	4,078,758	43.0
32-33.....	0.004290	94,429	405	94,226	3,984,136	42.2
33-34.....	0.004613	94,024	434	93,807	3,889,909	41.4
34-35.....	0.005033	93,590	471	93,355	3,796,102	40.6
35-36.....	0.005543	93,119	516	92,861	3,702,748	39.8
36-37.....	0.006045	92,603	560	92,323	3,609,887	39.0
37-38.....	0.006432	92,043	592	91,747	3,517,563	38.2
38-39.....	0.006613	91,451	605	91,149	3,425,816	37.5
39-40.....	0.006643	90,846	603	90,545	3,334,667	36.7
40-41.....	0.006604	90,243	596	89,945	3,244,123	35.9
41-42.....	0.006647	89,647	596	89,349	3,154,178	35.2
42-43.....	0.006878	89,051	612	88,745	3,064,829	34.4
43-44.....	0.007393	88,439	654	88,112	2,976,084	33.7
44-45.....	0.008135	87,785	714	87,428	2,887,972	32.9
45-46.....	0.009027	87,071	786	86,678	2,800,544	32.2
46-47.....	0.009884	86,285	853	85,858	2,713,867	31.5
47-48.....	0.010558	85,432	902	84,981	2,628,008	30.8
48-49.....	0.010911	84,530	922	84,069	2,543,027	30.1
49-50.....	0.011035	83,608	923	83,146	2,458,959	29.4
50-51.....	0.011070	82,685	915	82,227	2,375,812	28.7
51-52.....	0.011225	81,770	918	81,311	2,293,585	28.0
52-53.....	0.011609	80,852	939	80,382	2,212,274	27.4
53-54.....	0.012325	79,913	985	79,421	2,131,892	26.7
54-55.....	0.013284	78,928	1,048	78,404	2,052,471	26.0
55-56.....	0.014330	77,880	1,116	77,322	1,974,067	25.3
56-57.....	0.015299	76,764	1,174	76,177	1,896,745	24.7
57-58.....	0.016138	75,589	1,220	74,979	1,820,569	24.1
58-59.....	0.016753	74,370	1,246	73,747	1,745,589	23.5
59-60.....	0.017201	73,124	1,258	72,495	1,671,843	22.9

Table 7. Life table for the American Indian and Alaska Native, non-Hispanic population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table07.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
60–61.....	0.017597	71,866	1,265	71,233	1,599,348	22.3
61–62.....	0.018048	70,601	1,274	69,964	1,528,114	21.6
62–63.....	0.018578	69,327	1,288	68,683	1,458,150	21.0
63–64.....	0.019253	68,039	1,310	67,384	1,389,467	20.4
64–65.....	0.020075	66,729	1,340	66,059	1,322,083	19.8
65–66.....	0.020943	65,389	1,369	64,705	1,256,024	19.2
66–67.....	0.021848	64,020	1,399	63,321	1,191,319	18.6
67–68.....	0.022923	62,621	1,435	61,904	1,127,999	18.0
68–69.....	0.024215	61,186	1,482	60,445	1,066,095	17.4
69–70.....	0.025702	59,704	1,535	58,937	1,005,650	16.8
70–71.....	0.027431	58,170	1,596	57,372	946,713	16.3
71–72.....	0.029274	56,574	1,656	55,746	889,341	15.7
72–73.....	0.030988	54,918	1,702	54,067	833,595	15.2
73–74.....	0.032375	53,216	1,723	52,355	779,528	14.6
74–75.....	0.033506	51,493	1,725	50,631	727,173	14.1
75–76.....	0.034547	49,768	1,719	48,908	676,542	13.6
76–77.....	0.035817	48,049	1,721	47,188	627,634	13.1
77–78.....	0.037544	46,328	1,739	45,458	580,446	12.5
78–79.....	0.040057	44,588	1,786	43,695	534,988	12.0
79–80.....	0.043407	42,802	1,858	41,873	491,292	11.5
80–81.....	0.047617	40,944	1,950	39,970	449,419	11.0
81–82.....	0.051811	38,995	2,020	37,985	409,450	10.5
82–83.....	0.056108	36,974	2,075	35,937	371,465	10.0
83–84.....	0.059808	34,900	2,087	33,856	335,528	9.6
84–85.....	0.063557	32,813	2,085	31,770	301,672	9.2
85–86.....	0.066599	30,727	2,046	29,704	269,902	8.8
86–87.....	0.071720	28,681	2,057	27,652	240,198	8.4
87–88.....	0.077164	26,624	2,054	25,597	212,546	8.0
88–89.....	0.082937	24,569	2,038	23,550	186,949	7.6
89–90.....	0.089043	22,532	2,006	21,528	163,399	7.3
90–91.....	0.095484	20,525	1,960	19,545	141,870	6.9
91–92.....	0.102257	18,565	1,898	17,616	122,325	6.6
92–93.....	0.109356	16,667	1,823	15,756	104,709	6.3
93–94.....	0.116769	14,844	1,733	13,978	88,953	6.0
94–95.....	0.124479	13,111	1,632	12,295	74,975	5.7
95–96.....	0.132466	11,479	1,521	10,719	62,680	5.5
96–97.....	0.140701	9,958	1,401	9,258	51,961	5.2
97–98.....	0.149149	8,557	1,276	7,919	42,704	5.0
98–99.....	0.157773	7,281	1,149	6,707	34,784	4.8
99–100.....	0.166525	6,132	1,021	5,622	28,078	4.6
100 and older.....	1.000000	5,111	5,111	22,456	22,456	4.4

NOTES: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates. Updated classification ratios were applied; 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, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table08.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.....	0.011033	100,000	1,103	99,085	6,779,287	67.8
1-2.....	0.001065	98,897	105	98,844	6,680,201	67.5
2-3.....	0.000554	98,791	55	98,764	6,581,357	66.6
3-4.....	0.000264	98,737	26	98,724	6,482,593	65.7
4-5.....	0.000588	98,711	58	98,682	6,383,870	64.7
5-6.....	0.000324	98,653	32	98,637	6,285,188	63.7
6-7.....	0.000297	98,621	29	98,606	6,186,552	62.7
7-8.....	0.000275	98,591	27	98,578	6,087,946	61.7
8-9.....	0.000249	98,564	25	98,552	5,989,368	60.8
9-10.....	0.000224	98,540	22	98,529	5,890,816	59.8
10-11.....	0.000214	98,518	21	98,507	5,792,288	58.8
11-12.....	0.000245	98,497	24	98,484	5,693,780	57.8
12-13.....	0.000343	98,472	34	98,456	5,595,296	56.8
13-14.....	0.000523	98,439	51	98,413	5,496,840	55.8
14-15.....	0.000760	98,387	75	98,350	5,398,428	54.9
15-16.....	0.001020	98,312	100	98,262	5,300,078	53.9
16-17.....	0.001280	98,212	126	98,149	5,201,816	53.0
17-18.....	0.001545	98,086	152	98,011	5,103,666	52.0
18-19.....	0.001816	97,935	178	97,846	5,005,656	51.1
19-20.....	0.002096	97,757	205	97,655	4,907,810	50.2
20-21.....	0.002398	97,552	234	97,435	4,810,155	49.3
21-22.....	0.002715	97,318	264	97,186	4,712,720	48.4
22-23.....	0.003037	97,054	295	96,907	4,615,534	47.6
23-24.....	0.003356	96,759	325	96,597	4,518,627	46.7
24-25.....	0.003671	96,435	354	96,257	4,422,030	45.9
25-26.....	0.003997	96,080	384	95,888	4,325,773	45.0
26-27.....	0.004328	95,696	414	95,489	4,229,885	44.2
27-28.....	0.004629	95,282	441	95,062	4,134,395	43.4
28-29.....	0.004876	94,841	462	94,610	4,039,334	42.6
29-30.....	0.005079	94,379	479	94,139	3,944,724	41.8
30-31.....	0.005244	93,899	492	93,653	3,850,585	41.0
31-32.....	0.005415	93,407	506	93,154	3,756,932	40.2
32-33.....	0.005636	92,901	524	92,639	3,663,778	39.4
33-34.....	0.005942	92,377	549	92,103	3,571,138	38.7
34-35.....	0.006329	91,829	581	91,538	3,479,035	37.9
35-36.....	0.006792	91,247	620	90,937	3,387,498	37.1
36-37.....	0.007259	90,628	658	90,299	3,296,560	36.4
37-38.....	0.007649	89,970	688	89,626	3,206,261	35.6
38-39.....	0.007891	89,282	704	88,929	3,116,636	34.9
39-40.....	0.008027	88,577	711	88,222	3,027,706	34.2
40-41.....	0.008114	87,866	713	87,510	2,939,485	33.5
41-42.....	0.008280	87,153	722	86,792	2,851,975	32.7
42-43.....	0.008629	86,432	746	86,059	2,765,183	32.0
43-44.....	0.009252	85,686	793	85,289	2,679,124	31.3
44-45.....	0.010097	84,893	857	84,464	2,593,835	30.6
45-46.....	0.011104	84,036	933	83,569	2,509,371	29.9
46-47.....	0.012093	83,103	1,005	82,600	2,425,802	29.2
47-48.....	0.012895	82,098	1,059	81,568	2,343,202	28.5
48-49.....	0.013367	81,039	1,083	80,497	2,261,633	27.9
49-50.....	0.013605	79,956	1,088	79,412	2,181,136	27.3
50-51.....	0.013732	78,868	1,083	78,326	2,101,724	26.6
51-52.....	0.013992	77,785	1,088	77,241	2,023,397	26.0
52-53.....	0.014547	76,697	1,116	76,139	1,946,157	25.4
53-54.....	0.015526	75,581	1,173	74,994	1,870,018	24.7
54-55.....	0.016813	74,407	1,251	73,782	1,795,024	24.1
55-56.....	0.018232	73,156	1,334	72,489	1,721,242	23.5
56-57.....	0.019538	71,823	1,403	71,121	1,648,752	23.0
57-58.....	0.020598	70,419	1,451	69,694	1,577,632	22.4
58-59.....	0.021268	68,969	1,467	68,235	1,507,937	21.9
59-60.....	0.021656	67,502	1,462	66,771	1,439,702	21.3

Table 8. Life table for American Indian and Alaska Native, non-Hispanic males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table08.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
60–61.....	0.021939	66,040	1,449	65,316	1,372,931	20.8
61–62.....	0.022323	64,591	1,442	63,870	1,307,615	20.2
62–63.....	0.022894	63,149	1,446	62,427	1,243,745	19.7
63–64.....	0.023776	61,704	1,467	60,970	1,181,318	19.1
64–65.....	0.024937	60,237	1,502	59,486	1,120,348	18.6
65–66.....	0.026189	58,735	1,538	57,965	1,060,863	18.1
66–67.....	0.027442	57,196	1,570	56,412	1,002,897	17.5
67–68.....	0.028838	55,627	1,604	54,825	946,486	17.0
68–69.....	0.030382	54,023	1,641	53,202	891,661	16.5
69–70.....	0.032041	52,381	1,678	51,542	838,459	16.0
70–71.....	0.033991	50,703	1,723	49,841	786,917	15.5
71–72.....	0.036044	48,979	1,765	48,097	737,076	15.0
72–73.....	0.037689	47,214	1,779	46,324	688,979	14.6
73–74.....	0.038579	45,435	1,753	44,558	642,655	14.1
74–75.....	0.038851	43,682	1,697	42,833	598,097	13.7
75–76.....	0.038702	41,985	1,625	41,172	555,263	13.2
76–77.....	0.038761	40,360	1,564	39,578	514,091	12.7
77–78.....	0.039637	38,795	1,538	38,027	474,513	12.2
78–79.....	0.042018	37,258	1,566	36,475	436,487	11.7
79–80.....	0.045914	35,692	1,639	34,873	400,012	11.2
80–81.....	0.051321	34,053	1,748	33,180	365,139	10.7
81–82.....	0.056309	32,306	1,819	31,396	331,960	10.3
82–83.....	0.060938	30,487	1,858	29,558	300,563	9.9
83–84.....	0.064237	28,629	1,839	27,709	271,006	9.5
84–85.....	0.067689	26,790	1,813	25,883	243,296	9.1
85–86.....	0.070953	24,976	1,772	24,090	217,413	8.7
86–87.....	0.074541	23,204	1,730	22,339	193,323	8.3
87–88.....	0.079830	21,475	1,714	20,618	170,983	8.0
88–89.....	0.085405	19,760	1,688	18,917	150,366	7.6
89–90.....	0.091266	18,073	1,649	17,248	131,449	7.3
90–91.....	0.097408	16,423	1,600	15,623	114,201	7.0
91–92.....	0.103823	14,824	1,539	14,054	98,578	6.7
92–93.....	0.110499	13,285	1,468	12,551	84,524	6.4
93–94.....	0.117418	11,817	1,387	11,123	71,973	6.1
94–95.....	0.124559	10,429	1,299	9,780	60,850	5.8
95–96.....	0.131893	9,130	1,204	8,528	51,071	5.6
96–97.....	0.139387	7,926	1,105	7,373	42,543	5.4
97–98.....	0.147004	6,821	1,003	6,320	35,169	5.2
98–99.....	0.154700	5,818	900	5,368	28,849	5.0
99–100.....	0.162428	4,918	799	4,519	23,481	4.8
100 and older.....	1.000000	4,119	4,119	18,962	18,962	4.6

NOTES: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates. Updated classification ratios were applied; 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, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table09.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.....	0.007184	100,000	718	99,399	7,463,644	74.6
1-2.....	0.001043	99,282	104	99,230	7,364,246	74.2
2-3.....	0.000633	99,178	63	99,147	7,265,016	73.3
3-4.....	0.000344	99,115	34	99,098	7,165,869	72.3
4-5.....	0.000246	99,081	24	99,069	7,066,771	71.3
5-6.....	0.000361	99,057	36	99,039	6,967,702	70.3
6-7.....	0.000347	99,021	34	99,004	6,868,664	69.4
7-8.....	0.000318	98,987	31	98,971	6,769,660	68.4
8-9.....	0.000265	98,955	26	98,942	6,670,689	67.4
9-10.....	0.000196	98,929	19	98,919	6,571,747	66.4
10-11.....	0.000127	98,910	13	98,903	6,472,828	65.4
11-12.....	0.000089	98,897	9	98,893	6,373,925	64.5
12-13.....	0.000113	98,888	11	98,883	6,275,032	63.5
13-14.....	0.000217	98,877	21	98,866	6,176,149	62.5
14-15.....	0.000374	98,856	37	98,837	6,077,283	61.5
15-16.....	0.000548	98,819	54	98,792	5,978,446	60.5
16-17.....	0.000711	98,764	70	98,729	5,879,655	59.5
17-18.....	0.000863	98,694	85	98,652	5,780,925	58.6
18-19.....	0.000997	98,609	98	98,560	5,682,273	57.6
19-20.....	0.001124	98,511	111	98,455	5,583,713	56.7
20-21.....	0.001261	98,400	124	98,338	5,485,258	55.7
21-22.....	0.001411	98,276	139	98,207	5,386,920	54.8
22-23.....	0.001560	98,137	153	98,061	5,288,713	53.9
23-24.....	0.001704	97,984	167	97,901	5,190,652	53.0
24-25.....	0.001844	97,817	180	97,727	5,092,751	52.1
25-26.....	0.001997	97,637	195	97,539	4,995,024	51.2
26-27.....	0.002160	97,442	211	97,337	4,897,485	50.3
27-28.....	0.002309	97,231	224	97,119	4,800,148	49.4
28-29.....	0.002431	97,007	236	96,889	4,703,029	48.5
29-30.....	0.002540	96,771	246	96,648	4,606,140	47.6
30-31.....	0.002616	96,525	252	96,399	4,509,492	46.7
31-32.....	0.002712	96,273	261	96,142	4,413,093	45.8
32-33.....	0.002908	96,012	279	95,872	4,316,951	45.0
33-34.....	0.003248	95,733	311	95,577	4,221,079	44.1
34-35.....	0.003706	95,422	354	95,245	4,125,501	43.2
35-36.....	0.004268	95,068	406	94,865	4,030,257	42.4
36-37.....	0.004811	94,662	455	94,434	3,935,391	41.6
37-38.....	0.005200	94,207	490	93,962	3,840,957	40.8
38-39.....	0.005325	93,717	499	93,467	3,746,995	40.0
39-40.....	0.005256	93,218	490	92,973	3,653,528	39.2
40-41.....	0.005100	92,728	473	92,491	3,560,555	38.4
41-42.....	0.005031	92,255	464	92,023	3,468,064	37.6
42-43.....	0.005151	91,791	473	91,554	3,376,041	36.8
43-44.....	0.005563	91,318	508	91,064	3,284,486	36.0
44-45.....	0.006205	90,810	563	90,528	3,193,422	35.2
45-46.....	0.006983	90,246	630	89,931	3,102,894	34.4
46-47.....	0.007712	89,616	691	89,271	3,012,963	33.6
47-48.....	0.008261	88,925	735	88,558	2,923,692	32.9
48-49.....	0.008502	88,191	750	87,816	2,835,134	32.1
49-50.....	0.008522	87,441	745	87,068	2,747,318	31.4
50-51.....	0.008474	86,696	735	86,328	2,660,250	30.7
51-52.....	0.008535	85,961	734	85,594	2,573,922	29.9
52-53.....	0.008767	85,227	747	84,854	2,488,328	29.2
53-54.....	0.009249	84,480	781	84,089	2,403,474	28.5
54-55.....	0.009919	83,699	830	83,284	2,319,385	27.7
55-56.....	0.010642	82,869	882	82,428	2,236,101	27.0
56-57.....	0.011324	81,987	928	81,522	2,153,674	26.3
57-58.....	0.011981	81,058	971	80,573	2,072,151	25.6
58-59.....	0.012566	80,087	1,006	79,584	1,991,579	24.9
59-60.....	0.013084	79,081	1,035	78,563	1,911,995	24.2

Table 9. Life table for American Indian and Alaska Native, non-Hispanic females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table09.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
60–61.....	0.013592	78,046	1,061	77,516	1,833,431	23.5
61–62.....	0.014115	76,985	1,087	76,442	1,755,916	22.8
62–63.....	0.014634	75,899	1,111	75,343	1,679,474	22.1
63–64.....	0.015176	74,788	1,135	74,220	1,604,131	21.4
64–65.....	0.015771	73,653	1,162	73,072	1,529,910	20.8
65–66.....	0.016390	72,491	1,188	71,897	1,456,838	20.1
66–67.....	0.017076	71,303	1,218	70,694	1,384,941	19.4
67–68.....	0.017936	70,086	1,257	69,457	1,314,247	18.8
68–69.....	0.019035	68,828	1,310	68,173	1,244,790	18.1
69–70.....	0.020363	67,518	1,375	66,831	1,176,616	17.4
70–71.....	0.021878	66,143	1,447	65,420	1,109,786	16.8
71–72.....	0.023524	64,696	1,522	63,935	1,044,366	16.1
72–73.....	0.025281	63,174	1,597	62,376	980,430	15.5
73–74.....	0.027088	61,577	1,668	60,743	918,054	14.9
74–75.....	0.028957	59,909	1,735	59,042	857,311	14.3
75–76.....	0.031019	58,174	1,804	57,272	798,269	13.7
76–77.....	0.033325	56,370	1,879	55,431	740,997	13.1
77–78.....	0.035785	54,491	1,950	53,516	685,566	12.6
78–79.....	0.038415	52,542	2,018	51,532	632,050	12.0
79–80.....	0.041308	50,523	2,087	49,480	580,518	11.5
80–81.....	0.044562	48,436	2,158	47,357	531,038	11.0
81–82.....	0.048203	46,278	2,231	45,162	483,681	10.5
82–83.....	0.052394	44,047	2,308	42,893	438,519	10.0
83–84.....	0.056688	41,739	2,366	40,556	395,626	9.5
84–85.....	0.060976	39,373	2,401	38,173	355,070	9.0
85–86.....	0.064764	36,972	2,394	35,775	316,897	8.6
86–87.....	0.070470	34,578	2,437	33,359	281,122	8.1
87–88.....	0.076596	32,141	2,462	30,910	247,762	7.7
88–89.....	0.083158	29,679	2,468	28,445	216,852	7.3
89–90.....	0.090166	27,211	2,454	25,984	188,407	6.9
90–91.....	0.097628	24,758	2,417	23,549	162,423	6.6
91–92.....	0.105546	22,341	2,358	21,162	138,874	6.2
92–93.....	0.113918	19,983	2,276	18,844	117,712	5.9
93–94.....	0.122734	17,706	2,173	16,620	98,867	5.6
94–95.....	0.131977	15,533	2,050	14,508	82,248	5.3
95–96.....	0.141622	13,483	1,909	12,528	67,740	5.0
96–97.....	0.151635	11,574	1,755	10,696	55,211	4.8
97–98.....	0.161975	9,819	1,590	9,023	44,515	4.5
98–99.....	0.172589	8,228	1,420	7,518	35,492	4.3
99–100.....	0.183419	6,808	1,249	6,184	27,974	4.1
100 and older.....	1.000000	5,559	5,559	21,790	21,790	3.9

NOTES: This life table is based on death rates that have been adjusted for Hispanic-origin and race misclassification on death certificates. Updated classification ratios were applied; 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, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table10.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.....	0.003736	100,000	374	99,666	8,579,156	85.8
1-2.....	0.000222	99,626	22	99,615	8,479,490	85.1
2-3.....	0.000155	99,604	15	99,597	8,379,875	84.1
3-4.....	0.000109	99,589	11	99,583	8,280,279	83.1
4-5.....	0.000134	99,578	13	99,571	8,180,695	82.2
5-6.....	0.000104	99,565	10	99,560	8,081,124	81.2
6-7.....	0.000098	99,554	10	99,549	7,981,564	80.2
7-8.....	0.000092	99,545	9	99,540	7,882,015	79.2
8-9.....	0.000085	99,535	8	99,531	7,782,475	78.2
9-10.....	0.000077	99,527	8	99,523	7,682,944	77.2
10-11.....	0.000071	99,519	7	99,516	7,583,420	76.2
11-12.....	0.000072	99,512	7	99,509	7,483,905	75.2
12-13.....	0.000086	99,505	9	99,501	7,384,396	74.2
13-14.....	0.000116	99,496	12	99,491	7,284,895	73.2
14-15.....	0.000157	99,485	16	99,477	7,185,404	72.2
15-16.....	0.000202	99,469	20	99,459	7,085,927	71.2
16-17.....	0.000246	99,449	24	99,437	6,986,468	70.3
17-18.....	0.000290	99,425	29	99,410	6,887,031	69.3
18-19.....	0.000330	99,396	33	99,379	6,787,621	68.3
19-20.....	0.000365	99,363	36	99,345	6,688,241	67.3
20-21.....	0.000400	99,327	40	99,307	6,588,896	66.3
21-22.....	0.000431	99,287	43	99,266	6,489,589	65.4
22-23.....	0.000447	99,244	44	99,222	6,390,324	64.4
23-24.....	0.000446	99,200	44	99,178	6,291,102	63.4
24-25.....	0.000435	99,156	43	99,134	6,191,924	62.4
25-26.....	0.000419	99,112	41	99,092	6,092,790	61.5
26-27.....	0.000407	99,071	40	99,051	5,993,698	60.5
27-28.....	0.000407	99,031	40	99,010	5,894,648	59.5
28-29.....	0.000422	98,990	42	98,969	5,795,637	58.5
29-30.....	0.000446	98,949	44	98,926	5,696,668	57.6
30-31.....	0.000474	98,904	47	98,881	5,597,741	56.6
31-32.....	0.000497	98,858	49	98,833	5,498,861	55.6
32-33.....	0.000516	98,808	51	98,783	5,400,028	54.7
33-34.....	0.000526	98,757	52	98,731	5,301,245	53.7
34-35.....	0.000533	98,705	53	98,679	5,202,513	52.7
35-36.....	0.000540	98,653	53	98,626	5,103,834	51.7
36-37.....	0.000553	98,600	55	98,572	5,005,208	50.8
37-38.....	0.000574	98,545	57	98,517	4,906,636	49.8
38-39.....	0.000606	98,488	60	98,459	4,808,119	48.8
39-40.....	0.000647	98,429	64	98,397	4,709,661	47.8
40-41.....	0.000697	98,365	69	98,331	4,611,264	46.9
41-42.....	0.000752	98,296	74	98,259	4,512,933	45.9
42-43.....	0.000812	98,222	80	98,183	4,414,674	44.9
43-44.....	0.000877	98,143	86	98,100	4,316,491	44.0
44-45.....	0.000949	98,057	93	98,010	4,218,391	43.0
45-46.....	0.001027	97,964	101	97,913	4,120,381	42.1
46-47.....	0.001120	97,863	110	97,808	4,022,468	41.1
47-48.....	0.001236	97,753	121	97,693	3,924,660	40.1
48-49.....	0.001378	97,633	135	97,565	3,826,967	39.2
49-50.....	0.001535	97,498	150	97,423	3,729,401	38.3
50-51.....	0.001704	97,348	166	97,265	3,631,978	37.3
51-52.....	0.001873	97,182	182	97,091	3,534,713	36.4
52-53.....	0.002032	97,000	197	96,902	3,437,621	35.4
53-54.....	0.002182	96,803	211	96,698	3,340,719	34.5
54-55.....	0.002335	96,592	225	96,479	3,244,022	33.6
55-56.....	0.002509	96,367	242	96,246	3,147,542	32.7
56-57.....	0.002711	96,125	261	95,995	3,051,297	31.7
57-58.....	0.002926	95,864	281	95,724	2,955,302	30.8
58-59.....	0.003147	95,584	301	95,433	2,859,578	29.9
59-60.....	0.003375	95,283	322	95,122	2,764,145	29.0

Table 10. Life table for the Asian, non-Hispanic population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table10.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
60–61.....	0.003607	94,961	343	94,790	2,669,023	28.1
61–62.....	0.003873	94,619	366	94,435	2,574,233	27.2
62–63.....	0.004211	94,252	397	94,054	2,479,797	26.3
63–64.....	0.004648	93,855	436	93,637	2,385,743	25.4
64–65.....	0.005177	93,419	484	93,177	2,292,106	24.5
65–66.....	0.005762	92,935	535	92,668	2,198,929	23.7
66–67.....	0.006375	92,400	589	92,105	2,106,261	22.8
67–68.....	0.007031	91,811	646	91,488	2,014,156	21.9
68–69.....	0.007726	91,165	704	90,813	1,922,667	21.1
69–70.....	0.008468	90,461	766	90,078	1,831,854	20.3
70–71.....	0.009280	89,695	832	89,279	1,741,776	19.4
71–72.....	0.010173	88,863	904	88,411	1,652,498	18.6
72–73.....	0.011151	87,959	981	87,468	1,564,087	17.8
73–74.....	0.012233	86,978	1,064	86,446	1,476,619	17.0
74–75.....	0.013448	85,914	1,155	85,336	1,390,173	16.2
75–76.....	0.014803	84,758	1,255	84,131	1,304,837	15.4
76–77.....	0.016347	83,504	1,365	82,821	1,220,706	14.6
77–78.....	0.018058	82,139	1,483	81,397	1,137,885	13.9
78–79.....	0.020606	80,655	1,662	79,824	1,056,488	13.1
79–80.....	0.023129	78,993	1,827	78,080	976,663	12.4
80–81.....	0.026503	77,166	2,045	76,144	898,583	11.6
81–82.....	0.029922	75,121	2,248	73,997	822,439	10.9
82–83.....	0.034415	72,873	2,508	71,620	748,442	10.3
83–84.....	0.038757	70,366	2,727	69,002	676,823	9.6
84–85.....	0.044134	67,638	2,985	66,146	607,821	9.0
85–86.....	0.049023	64,653	3,169	63,069	541,675	8.4
86–87.....	0.056436	61,484	3,470	59,749	478,606	7.8
87–88.....	0.064832	58,014	3,761	56,133	418,857	7.2
88–89.....	0.074299	54,253	4,031	52,237	362,724	6.7
89–90.....	0.084921	50,222	4,265	48,089	310,487	6.2
90–91.....	0.096774	45,957	4,447	43,733	262,397	5.7
91–92.....	0.109920	41,509	4,563	39,228	218,664	5.3
92–93.....	0.124404	36,947	4,596	34,649	179,436	4.9
93–94.....	0.140245	32,350	4,537	30,082	144,788	4.5
94–95.....	0.157434	27,813	4,379	25,624	114,706	4.1
95–96.....	0.175928	23,435	4,123	21,373	89,082	3.8
96–97.....	0.195647	19,312	3,778	17,423	67,708	3.5
97–98.....	0.216470	15,534	3,363	13,852	50,286	3.2
98–99.....	0.238240	12,171	2,900	10,721	36,433	3.0
99–100.....	0.260765	9,271	2,418	8,063	25,712	2.8
100 and older.....	1.000000	6,854	6,854	17,650	17,650	2.6

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 11. Life table for Asian, non-Hispanic males: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table11.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.....	0.003866	100,000	387	99,654	8,367,031	83.7
1-2.....	0.000272	99,613	27	99,600	8,267,377	83.0
2-3.....	0.000150	99,586	15	99,579	8,167,777	82.0
3-4.....	0.000135	99,571	13	99,565	8,068,198	81.0
4-5.....	0.000114	99,558	11	99,552	7,968,633	80.0
5-6.....	0.000116	99,546	12	99,541	7,869,081	79.0
6-7.....	0.000111	99,535	11	99,529	7,769,540	78.1
7-8.....	0.000106	99,524	11	99,519	7,670,011	77.1
8-9.....	0.000102	99,513	10	99,508	7,570,492	76.1
9-10.....	0.000099	99,503	10	99,498	7,470,984	75.1
10-11.....	0.000098	99,493	10	99,489	7,371,486	74.1
11-12.....	0.000101	99,484	10	99,479	7,271,997	73.1
12-13.....	0.000113	99,474	11	99,468	7,172,518	72.1
13-14.....	0.000134	99,462	13	99,456	7,073,050	71.1
14-15.....	0.000164	99,449	16	99,441	6,973,595	70.1
15-16.....	0.000195	99,433	19	99,423	6,874,154	69.1
16-17.....	0.000228	99,413	23	99,402	6,774,731	68.1
17-18.....	0.000271	99,391	27	99,377	6,675,329	67.2
18-19.....	0.000321	99,364	32	99,348	6,575,951	66.2
19-20.....	0.000374	99,332	37	99,313	6,476,603	65.2
20-21.....	0.000428	99,295	43	99,274	6,377,290	64.2
21-22.....	0.000476	99,252	47	99,229	6,278,017	63.3
22-23.....	0.000509	99,205	50	99,180	6,178,788	62.3
23-24.....	0.000523	99,155	52	99,129	6,079,608	61.3
24-25.....	0.000526	99,103	52	99,077	5,980,480	60.3
25-26.....	0.000524	99,051	52	99,025	5,881,403	59.4
26-27.....	0.000527	98,999	52	98,973	5,782,378	58.4
27-28.....	0.000540	98,946	53	98,920	5,683,406	57.4
28-29.....	0.000565	98,893	56	98,865	5,584,486	56.5
29-30.....	0.000597	98,837	59	98,808	5,485,621	55.5
30-31.....	0.000632	98,778	62	98,747	5,386,813	54.5
31-32.....	0.000663	98,716	65	98,683	5,288,066	53.6
32-33.....	0.000689	98,650	68	98,616	5,189,383	52.6
33-34.....	0.000710	98,582	70	98,547	5,090,767	51.6
34-35.....	0.000727	98,512	72	98,477	4,992,220	50.7
35-36.....	0.000746	98,441	73	98,404	4,893,743	49.7
36-37.....	0.000771	98,367	76	98,329	4,795,339	48.7
37-38.....	0.000803	98,291	79	98,252	4,697,010	47.8
38-39.....	0.000847	98,212	83	98,171	4,598,758	46.8
39-40.....	0.000901	98,129	88	98,085	4,500,587	45.9
40-41.....	0.000967	98,041	95	97,993	4,402,502	44.9
41-42.....	0.001040	97,946	102	97,895	4,304,508	43.9
42-43.....	0.001117	97,844	109	97,790	4,206,613	43.0
43-44.....	0.001195	97,735	117	97,677	4,108,824	42.0
44-45.....	0.001280	97,618	125	97,556	4,011,147	41.1
45-46.....	0.001373	97,493	134	97,426	3,913,591	40.1
46-47.....	0.001486	97,359	145	97,287	3,816,165	39.2
47-48.....	0.001638	97,215	159	97,135	3,718,878	38.3
48-49.....	0.001832	97,055	178	96,967	3,621,743	37.3
49-50.....	0.002053	96,878	199	96,778	3,524,777	36.4
50-51.....	0.002288	96,679	221	96,568	3,427,998	35.5
51-52.....	0.002520	96,458	243	96,336	3,331,430	34.5
52-53.....	0.002742	96,214	264	96,083	3,235,094	33.6
53-54.....	0.002954	95,951	283	95,809	3,139,012	32.7
54-55.....	0.003173	95,667	304	95,515	3,043,203	31.8
55-56.....	0.003421	95,364	326	95,201	2,947,688	30.9
56-57.....	0.003704	95,037	352	94,861	2,852,487	30.0
57-58.....	0.004009	94,685	380	94,496	2,757,626	29.1
58-59.....	0.004323	94,306	408	94,102	2,663,130	28.2
59-60.....	0.004644	93,898	436	93,680	2,569,028	27.4

Table 11. Life table for Asian, non-Hispanic males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table11.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
60–61.....	0.004971	93,462	465	93,230	2,475,348	26.5
61–62.....	0.005334	92,997	496	92,749	2,382,118	25.6
62–63.....	0.005770	92,501	534	92,235	2,289,369	24.7
63–64.....	0.006312	91,968	581	91,677	2,197,134	23.9
64–65.....	0.006956	91,387	636	91,069	2,105,457	23.0
65–66.....	0.007663	90,751	695	90,404	2,014,388	22.2
66–67.....	0.008409	90,056	757	89,677	1,923,984	21.4
67–68.....	0.009228	89,299	824	88,887	1,834,306	20.5
68–69.....	0.010126	88,475	896	88,027	1,745,420	19.7
69–70.....	0.011107	87,579	973	87,092	1,657,393	18.9
70–71.....	0.012190	86,606	1,056	86,078	1,570,300	18.1
71–72.....	0.013367	85,550	1,144	84,979	1,484,222	17.3
72–73.....	0.014613	84,407	1,233	83,790	1,399,244	16.6
73–74.....	0.015918	83,173	1,324	82,511	1,315,453	15.8
74–75.....	0.017311	81,849	1,417	81,141	1,232,942	15.1
75–76.....	0.018829	80,433	1,514	79,675	1,151,801	14.3
76–77.....	0.020520	78,918	1,619	78,108	1,072,126	13.6
77–78.....	0.022390	77,299	1,731	76,433	994,017	12.9
78–79.....	0.025239	75,568	1,907	74,614	917,584	12.1
79–80.....	0.028195	73,661	2,077	72,622	842,970	11.4
80–81.....	0.032176	71,584	2,303	70,432	770,347	10.8
81–82.....	0.036146	69,281	2,504	68,029	699,915	10.1
82–83.....	0.041589	66,776	2,777	65,388	631,887	9.5
83–84.....	0.046410	63,999	2,970	62,514	566,499	8.9
84–85.....	0.052948	61,029	3,231	59,413	503,985	8.3
85–86.....	0.059077	57,798	3,415	56,090	444,571	7.7
86–87.....	0.065308	54,383	3,552	52,607	388,481	7.1
87–88.....	0.075035	50,831	3,814	48,924	335,873	6.6
88–89.....	0.085967	47,017	4,042	44,996	286,949	6.1
89–90.....	0.098183	42,975	4,219	40,866	241,953	5.6
90–91.....	0.111745	38,756	4,331	36,591	201,087	5.2
91–92.....	0.126694	34,425	4,361	32,244	164,497	4.8
92–93.....	0.143045	30,064	4,300	27,913	132,252	4.4
93–94.....	0.160777	25,763	4,142	23,692	104,339	4.0
94–95.....	0.179833	21,621	3,888	19,677	80,647	3.7
95–96.....	0.200114	17,733	3,549	15,959	60,970	3.4
96–97.....	0.221478	14,184	3,142	12,614	45,011	3.2
97–98.....	0.243741	11,043	2,692	9,697	32,397	2.9
98–99.....	0.266686	8,351	2,227	7,238	22,700	2.7
99–100.....	0.290067	6,124	1,776	5,236	15,463	2.5
100 and older.....	1.000000	4,348	4,348	10,227	10,227	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 12. Life table for Asian, non-Hispanic females: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table12.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.....	0.003608	100,000	361	99,677	8,767,460	87.7
1-2.....	0.000169	99,639	17	99,631	8,667,783	87.0
2-3.....	0.000159	99,622	16	99,614	8,568,152	86.0
3-4.....	0.000080	99,607	8	99,603	8,468,538	85.0
4-5.....	0.000155	99,599	15	99,591	8,368,936	84.0
5-6.....	0.000090	99,583	9	99,579	8,269,345	83.0
6-7.....	0.000081	99,574	8	99,570	8,169,766	82.0
7-8.....	0.000074	99,566	7	99,562	8,070,196	81.1
8-9.....	0.000067	99,559	7	99,555	7,970,634	80.1
9-10.....	0.000061	99,552	6	99,549	7,871,078	79.1
10-11.....	0.000057	99,546	6	99,543	7,771,529	78.1
11-12.....	0.000059	99,540	6	99,537	7,671,986	77.1
12-13.....	0.000068	99,534	7	99,531	7,572,449	76.1
13-14.....	0.000089	99,528	9	99,523	7,472,918	75.1
14-15.....	0.000116	99,519	12	99,513	7,373,395	74.1
15-16.....	0.000148	99,507	15	99,500	7,273,882	73.1
16-17.....	0.000178	99,492	18	99,484	7,174,382	72.1
17-18.....	0.000199	99,475	20	99,465	7,074,898	71.1
18-19.....	0.000207	99,455	21	99,445	6,975,434	70.1
19-20.....	0.000207	99,434	21	99,424	6,875,989	69.2
20-21.....	0.000204	99,414	20	99,404	6,776,565	68.2
21-22.....	0.000204	99,393	20	99,383	6,677,161	67.2
22-23.....	0.000205	99,373	20	99,363	6,577,778	66.2
23-24.....	0.000209	99,353	21	99,342	6,478,415	65.2
24-25.....	0.000215	99,332	21	99,321	6,379,073	64.2
25-26.....	0.000221	99,311	22	99,300	6,279,751	63.2
26-27.....	0.000227	99,289	23	99,277	6,180,452	62.2
27-28.....	0.000233	99,266	23	99,254	6,081,175	61.3
28-29.....	0.000238	99,243	24	99,231	5,981,920	60.3
29-30.....	0.000242	99,219	24	99,207	5,882,689	59.3
30-31.....	0.000247	99,195	25	99,183	5,783,482	58.3
31-32.....	0.000255	99,171	25	99,158	5,684,299	57.3
32-33.....	0.000265	99,146	26	99,132	5,585,140	56.3
33-34.....	0.000280	99,119	28	99,105	5,486,008	55.3
34-35.....	0.000299	99,091	30	99,077	5,386,903	54.4
35-36.....	0.000321	99,062	32	99,046	5,287,826	53.4
36-37.....	0.000344	99,030	34	99,013	5,188,780	52.4
37-38.....	0.000369	98,996	37	98,978	5,089,767	51.4
38-39.....	0.000394	98,960	39	98,940	4,990,789	50.4
39-40.....	0.000421	98,921	42	98,900	4,891,849	49.5
40-41.....	0.000451	98,879	45	98,857	4,792,949	48.5
41-42.....	0.000488	98,834	48	98,810	4,694,093	47.5
42-43.....	0.000532	98,786	53	98,760	4,595,283	46.5
43-44.....	0.000586	98,733	58	98,705	4,496,523	45.5
44-45.....	0.000650	98,676	64	98,644	4,397,818	44.6
45-46.....	0.000721	98,612	71	98,576	4,299,175	43.6
46-47.....	0.000799	98,540	79	98,501	4,200,599	42.6
47-48.....	0.000887	98,462	87	98,418	4,102,098	41.7
48-49.....	0.000984	98,374	97	98,326	4,003,680	40.7
49-50.....	0.001085	98,278	107	98,224	3,905,354	39.7
50-51.....	0.001192	98,171	117	98,113	3,807,129	38.8
51-52.....	0.001302	98,054	128	97,990	3,709,017	37.8
52-53.....	0.001407	97,926	138	97,857	3,611,027	36.9
53-54.....	0.001507	97,788	147	97,715	3,513,169	35.9
54-55.....	0.001610	97,641	157	97,562	3,415,454	35.0
55-56.....	0.001731	97,484	169	97,399	3,317,892	34.0
56-57.....	0.001872	97,315	182	97,224	3,220,493	33.1
57-58.....	0.002020	97,133	196	97,035	3,123,269	32.2
58-59.....	0.002168	96,937	210	96,832	3,026,234	31.2
59-60.....	0.002321	96,727	225	96,614	2,929,402	30.3

Table 12. Life table for Asian, non-Hispanic females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table12.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
60–61.....	0.002478	96,502	239	96,383	2,832,788	29.4
61–62.....	0.002666	96,263	257	96,135	2,736,405	28.4
62–63.....	0.002923	96,006	281	95,866	2,640,271	27.5
63–64.....	0.003274	95,726	313	95,569	2,544,405	26.6
64–65.....	0.003707	95,412	354	95,235	2,448,836	25.7
65–66.....	0.004192	95,059	398	94,859	2,353,600	24.8
66–67.....	0.004698	94,660	445	94,438	2,258,741	23.9
67–68.....	0.005229	94,215	493	93,969	2,164,303	23.0
68–69.....	0.005775	93,723	541	93,452	2,070,334	22.1
69–70.....	0.006350	93,181	592	92,886	1,976,882	21.2
70–71.....	0.006976	92,590	646	92,267	1,883,997	20.3
71–72.....	0.007676	91,944	706	91,591	1,791,730	19.5
72–73.....	0.008471	91,238	773	90,852	1,700,139	18.6
73–74.....	0.009394	90,465	850	90,040	1,609,287	17.8
74–75.....	0.010471	89,615	938	89,146	1,519,247	17.0
75–76.....	0.011696	88,677	1,037	88,158	1,430,101	16.1
76–77.....	0.013124	87,640	1,150	87,065	1,341,943	15.3
77–78.....	0.014715	86,490	1,273	85,853	1,254,878	14.5
78–79.....	0.017050	85,217	1,453	84,490	1,169,025	13.7
79–80.....	0.019279	83,764	1,615	82,957	1,084,534	12.9
80–81.....	0.022274	82,149	1,830	81,234	1,001,578	12.2
81–82.....	0.025388	80,319	2,039	79,300	920,343	11.5
82–83.....	0.029310	78,280	2,294	77,133	841,044	10.7
83–84.....	0.033457	75,986	2,542	74,715	763,911	10.1
84–85.....	0.038188	73,443	2,805	72,041	689,196	9.4
85–86.....	0.043098	70,639	3,044	69,117	617,155	8.7
86–87.....	0.050078	67,594	3,385	65,902	548,038	8.1
87–88.....	0.058066	64,209	3,728	62,345	482,136	7.5
88–89.....	0.067167	60,481	4,062	58,450	419,791	6.9
89–90.....	0.077485	56,419	4,372	54,233	361,341	6.4
90–91.....	0.089118	52,047	4,638	49,728	307,108	5.9
91–92.....	0.102152	47,409	4,843	44,987	257,381	5.4
92–93.....	0.116657	42,566	4,966	40,083	212,393	5.0
93–94.....	0.132677	37,600	4,989	35,106	172,310	4.6
94–95.....	0.150225	32,612	4,899	30,162	137,204	4.2
95–96.....	0.169275	27,712	4,691	25,367	107,042	3.9
96–97.....	0.189757	23,021	4,368	20,837	81,675	3.5
97–98.....	0.211554	18,653	3,946	16,680	60,838	3.3
98–99.....	0.234503	14,707	3,449	12,982	44,158	3.0
99–100.....	0.258393	11,258	2,909	9,804	31,176	2.8
100 and older.....	1.000000	8,349	8,349	21,372	21,372	2.6

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 13. Life table for the Black, non-Hispanic population: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/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.....	0.010925	100,000	1,093	99,063	7,476,928	74.8
1-2.....	0.000821	98,907	81	98,867	7,377,865	74.6
2-3.....	0.000503	98,826	50	98,801	7,278,998	73.7
3-4.....	0.000434	98,776	43	98,755	7,180,197	72.7
4-5.....	0.000351	98,734	35	98,716	7,081,442	71.7
5-6.....	0.000295	98,699	29	98,684	6,982,726	70.7
6-7.....	0.000265	98,670	26	98,657	6,884,041	69.8
7-8.....	0.000239	98,644	24	98,632	6,785,384	68.8
8-9.....	0.000210	98,620	21	98,610	6,686,753	67.8
9-10.....	0.000179	98,599	18	98,591	6,588,143	66.8
10-11.....	0.000157	98,582	15	98,574	6,489,552	65.8
11-12.....	0.000164	98,566	16	98,558	6,390,978	64.8
12-13.....	0.000222	98,550	22	98,539	6,292,420	63.8
13-14.....	0.000343	98,528	34	98,511	6,193,881	62.9
14-15.....	0.000505	98,494	50	98,470	6,095,370	61.9
15-16.....	0.000679	98,445	67	98,411	5,996,900	60.9
16-17.....	0.000843	98,378	83	98,336	5,898,489	60.0
17-18.....	0.000996	98,295	98	98,246	5,800,153	59.0
18-19.....	0.001133	98,197	111	98,141	5,701,907	58.1
19-20.....	0.001258	98,086	123	98,024	5,603,766	57.1
20-21.....	0.001394	97,962	137	97,894	5,505,742	56.2
21-22.....	0.001529	97,826	150	97,751	5,407,848	55.3
22-23.....	0.001629	97,676	159	97,597	5,310,097	54.4
23-24.....	0.001679	97,517	164	97,435	5,212,500	53.5
24-25.....	0.001696	97,353	165	97,271	5,115,065	52.5
25-26.....	0.001699	97,188	165	97,106	5,017,794	51.6
26-27.....	0.001715	97,023	166	96,940	4,920,688	50.7
27-28.....	0.001757	96,857	170	96,772	4,823,748	49.8
28-29.....	0.001833	96,687	177	96,598	4,726,976	48.9
29-30.....	0.001930	96,509	186	96,416	4,630,379	48.0
30-31.....	0.002026	96,323	195	96,226	4,533,962	47.1
31-32.....	0.002116	96,128	203	96,026	4,437,737	46.2
32-33.....	0.002212	95,925	212	95,818	4,341,710	45.3
33-34.....	0.002323	95,712	222	95,601	4,245,892	44.4
34-35.....	0.002453	95,490	234	95,373	4,150,291	43.5
35-36.....	0.002603	95,256	248	95,132	4,054,918	42.6
36-37.....	0.002768	95,008	263	94,876	3,959,786	41.7
37-38.....	0.002952	94,745	280	94,605	3,864,910	40.8
38-39.....	0.003146	94,465	297	94,317	3,770,305	39.9
39-40.....	0.003344	94,168	315	94,011	3,675,988	39.0
40-41.....	0.003561	93,853	334	93,686	3,581,978	38.2
41-42.....	0.003790	93,519	354	93,342	3,488,292	37.3
42-43.....	0.004003	93,164	373	92,978	3,394,950	36.4
43-44.....	0.004192	92,792	389	92,597	3,301,972	35.6
44-45.....	0.004373	92,402	404	92,200	3,209,375	34.7
45-46.....	0.004569	91,998	420	91,788	3,117,175	33.9
46-47.....	0.004800	91,578	440	91,358	3,025,386	33.0
47-48.....	0.005066	91,139	462	90,908	2,934,028	32.2
48-49.....	0.005368	90,677	487	90,433	2,843,120	31.4
49-50.....	0.005699	90,190	514	89,933	2,752,687	30.5
50-51.....	0.006062	89,676	544	89,404	2,662,754	29.7
51-52.....	0.006455	89,132	575	88,845	2,573,349	28.9
52-53.....	0.006876	88,557	609	88,253	2,484,505	28.1
53-54.....	0.007335	87,948	645	87,626	2,396,252	27.2
54-55.....	0.007850	87,303	685	86,960	2,308,626	26.4
55-56.....	0.008392	86,618	727	86,254	2,221,666	25.6
56-57.....	0.009002	85,891	773	85,504	2,135,411	24.9
57-58.....	0.009755	85,118	830	84,703	2,049,907	24.1
58-59.....	0.010666	84,287	899	83,838	1,965,204	23.3
59-60.....	0.011682	83,388	974	82,901	1,881,367	22.6

Table 13. Life table for the Black, non-Hispanic population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/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
60–61.....	0.012706	82,414	1,047	81,891	1,798,465	21.8
61–62.....	0.013725	81,367	1,117	80,809	1,716,575	21.1
62–63.....	0.014820	80,250	1,189	79,656	1,635,766	20.4
63–64.....	0.016036	79,061	1,268	78,427	1,556,110	19.7
64–65.....	0.017372	77,793	1,351	77,117	1,477,683	19.0
65–66.....	0.018827	76,442	1,439	75,722	1,400,566	18.3
66–67.....	0.020378	75,003	1,528	74,238	1,324,844	17.7
67–68.....	0.021770	73,474	1,600	72,674	1,250,605	17.0
68–69.....	0.023150	71,875	1,664	71,043	1,177,931	16.4
69–70.....	0.024416	70,211	1,714	69,354	1,106,888	15.8
70–71.....	0.025768	68,497	1,765	67,614	1,037,535	15.1
71–72.....	0.027528	66,731	1,837	65,813	969,921	14.5
72–73.....	0.029146	64,894	1,891	63,949	904,108	13.9
73–74.....	0.031006	63,003	1,953	62,026	840,159	13.3
74–75.....	0.033085	61,050	2,020	60,040	778,132	12.7
75–76.....	0.035347	59,030	2,087	57,987	718,093	12.2
76–77.....	0.037709	56,943	2,147	55,870	660,106	11.6
77–78.....	0.040325	54,796	2,210	53,691	604,237	11.0
78–79.....	0.044483	52,586	2,339	51,417	550,545	10.5
79–80.....	0.047736	50,247	2,399	49,048	499,129	9.9
80–81.....	0.052753	47,849	2,524	46,587	450,081	9.4
81–82.....	0.056942	45,324	2,581	44,034	403,494	8.9
82–83.....	0.063263	42,744	2,704	41,392	359,460	8.4
83–84.....	0.068086	40,040	2,726	38,676	318,069	7.9
84–85.....	0.074004	37,313	2,761	35,933	279,392	7.5
85–86.....	0.082102	34,552	2,837	33,134	243,460	7.0
86–87.....	0.090160	31,715	2,859	30,286	210,326	6.6
87–88.....	0.098590	28,856	2,845	27,433	180,040	6.2
88–89.....	0.107662	26,011	2,800	24,611	152,607	5.9
89–90.....	0.117395	23,211	2,725	21,848	127,996	5.5
90–91.....	0.127808	20,486	2,618	19,177	106,148	5.2
91–92.....	0.138910	17,867	2,482	16,627	86,971	4.9
92–93.....	0.150708	15,386	2,319	14,226	70,345	4.6
93–94.....	0.163197	13,067	2,132	12,001	56,119	4.3
94–95.....	0.176368	10,934	1,928	9,970	44,118	4.0
95–96.....	0.190199	9,006	1,713	8,149	34,148	3.8
96–97.....	0.204663	7,293	1,493	6,547	25,999	3.6
97–98.....	0.219720	5,800	1,274	5,163	19,452	3.4
98–99.....	0.235320	4,526	1,065	3,993	14,289	3.2
99–100.....	0.251405	3,461	870	3,026	10,296	3.0
100 and older.....	1.000000	2,591	2,591	7,270	7,270	2.8

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 14. Life table for Black, non-Hispanic males: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table14.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.....	0.011718	100,000	1,172	98,998	7,129,283	71.3
1-2.....	0.000824	98,828	81	98,788	7,030,285	71.1
2-3.....	0.000553	98,747	55	98,720	6,931,498	70.2
3-4.....	0.000476	98,692	47	98,669	6,832,778	69.2
4-5.....	0.000342	98,645	34	98,628	6,734,109	68.3
5-6.....	0.000320	98,612	32	98,596	6,635,481	67.3
6-7.....	0.000300	98,580	30	98,565	6,536,885	66.3
7-8.....	0.000275	98,550	27	98,537	6,438,320	65.3
8-9.....	0.000231	98,523	23	98,512	6,339,783	64.3
9-10.....	0.000171	98,500	17	98,492	6,241,271	63.4
10-11.....	0.000119	98,484	12	98,478	6,142,779	62.4
11-12.....	0.000115	98,472	11	98,466	6,044,302	61.4
12-13.....	0.000205	98,461	20	98,450	5,945,835	60.4
13-14.....	0.000411	98,440	40	98,420	5,847,385	59.4
14-15.....	0.000694	98,400	68	98,366	5,748,965	58.4
15-16.....	0.000998	98,332	98	98,283	5,650,599	57.5
16-17.....	0.001277	98,234	125	98,171	5,552,316	56.5
17-18.....	0.001527	98,108	150	98,033	5,454,146	55.6
18-19.....	0.001737	97,958	170	97,873	5,356,112	54.7
19-20.....	0.001916	97,788	187	97,694	5,258,239	53.8
20-21.....	0.002106	97,601	206	97,498	5,160,545	52.9
21-22.....	0.002296	97,395	224	97,283	5,063,047	52.0
22-23.....	0.002431	97,172	236	97,053	4,965,764	51.1
23-24.....	0.002491	96,935	241	96,815	4,868,710	50.2
24-25.....	0.002497	96,694	241	96,573	4,771,896	49.4
25-26.....	0.002482	96,452	239	96,333	4,675,322	48.5
26-27.....	0.002483	96,213	239	96,094	4,578,990	47.6
27-28.....	0.002512	95,974	241	95,854	4,482,896	46.7
28-29.....	0.002586	95,733	248	95,609	4,387,042	45.8
29-30.....	0.002688	95,486	257	95,357	4,291,433	44.9
30-31.....	0.002787	95,229	265	95,096	4,196,076	44.1
31-32.....	0.002880	94,963	274	94,827	4,100,980	43.2
32-33.....	0.002992	94,690	283	94,548	4,006,153	42.3
33-34.....	0.003137	94,407	296	94,259	3,911,605	41.4
34-35.....	0.003317	94,110	312	93,954	3,817,346	40.6
35-36.....	0.003528	93,798	331	93,633	3,723,392	39.7
36-37.....	0.003758	93,467	351	93,292	3,629,759	38.8
37-38.....	0.004001	93,116	373	92,930	3,536,467	38.0
38-39.....	0.004239	92,744	393	92,547	3,443,538	37.1
39-40.....	0.004468	92,350	413	92,144	3,350,991	36.3
40-41.....	0.004719	91,938	434	91,721	3,258,846	35.4
41-42.....	0.004990	91,504	457	91,276	3,167,126	34.6
42-43.....	0.005241	91,047	477	90,809	3,075,850	33.8
43-44.....	0.005461	90,570	495	90,323	2,985,041	33.0
44-45.....	0.005671	90,076	511	89,820	2,894,718	32.1
45-46.....	0.005892	89,565	528	89,301	2,804,898	31.3
46-47.....	0.006160	89,037	548	88,763	2,715,597	30.5
47-48.....	0.006494	88,489	575	88,201	2,626,834	29.7
48-49.....	0.006903	87,914	607	87,611	2,538,633	28.9
49-50.....	0.007369	87,307	643	86,985	2,451,022	28.1
50-51.....	0.007882	86,664	683	86,322	2,364,037	27.3
51-52.....	0.008419	85,981	724	85,619	2,277,715	26.5
52-53.....	0.008964	85,257	764	84,875	2,192,096	25.7
53-54.....	0.009519	84,492	804	84,090	2,107,222	24.9
54-55.....	0.010115	83,688	847	83,265	2,023,131	24.2
55-56.....	0.010733	82,842	889	82,397	1,939,866	23.4
56-57.....	0.011444	81,953	938	81,484	1,857,469	22.7
57-58.....	0.012353	81,015	1,001	80,514	1,775,986	21.9
58-59.....	0.013495	80,014	1,080	79,474	1,695,471	21.2
59-60.....	0.014795	78,934	1,168	78,350	1,615,997	20.5

Table 14. Life table for Black, non-Hispanic males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table14.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
60–61.....	0.016108	77,766	1,253	77,140	1,537,647	19.8
61–62.....	0.017410	76,514	1,332	75,848	1,460,507	19.1
62–63.....	0.018814	75,182	1,414	74,474	1,384,659	18.4
63–64.....	0.020379	73,767	1,503	73,015	1,310,185	17.8
64–65.....	0.022108	72,264	1,598	71,465	1,237,170	17.1
65–66.....	0.023997	70,666	1,696	69,818	1,165,705	16.5
66–67.....	0.026000	68,970	1,793	68,074	1,095,886	15.9
67–68.....	0.027782	67,177	1,866	66,244	1,027,813	15.3
68–69.....	0.029643	65,311	1,936	64,343	961,569	14.7
69–70.....	0.031251	63,375	1,981	62,385	897,226	14.2
70–71.....	0.033099	61,394	2,032	60,378	834,841	13.6
71–72.....	0.035478	59,362	2,106	58,309	774,463	13.0
72–73.....	0.037513	57,256	2,148	56,182	716,154	12.5
73–74.....	0.039747	55,108	2,190	54,013	659,972	12.0
74–75.....	0.041892	52,918	2,217	51,809	605,959	11.5
75–76.....	0.044646	50,701	2,264	49,569	554,149	10.9
76–77.....	0.046457	48,437	2,250	47,312	504,580	10.4
77–78.....	0.049600	46,187	2,291	45,042	457,268	9.9
78–79.....	0.054283	43,896	2,383	42,705	412,226	9.4
79–80.....	0.057713	41,513	2,396	40,316	369,521	8.9
80–81.....	0.064936	39,118	2,540	37,848	329,205	8.4
81–82.....	0.069006	36,578	2,524	35,315	291,358	8.0
82–83.....	0.076834	34,053	2,616	32,745	256,042	7.5
83–84.....	0.081659	31,437	2,567	30,153	223,297	7.1
84–85.....	0.088456	28,870	2,554	27,593	193,144	6.7
85–86.....	0.097532	26,316	2,567	25,033	165,551	6.3
86–87.....	0.105096	23,749	2,496	22,502	140,518	5.9
87–88.....	0.114982	21,254	2,444	20,032	118,016	5.6
88–89.....	0.125591	18,810	2,362	17,629	97,985	5.2
89–90.....	0.136935	16,447	2,252	15,321	80,356	4.9
90–91.....	0.149022	14,195	2,115	13,137	65,035	4.6
91–92.....	0.161850	12,080	1,955	11,102	51,897	4.3
92–93.....	0.175408	10,125	1,776	9,237	40,795	4.0
93–94.....	0.189675	8,349	1,584	7,557	31,558	3.8
94–95.....	0.204619	6,765	1,384	6,073	24,001	3.5
95–96.....	0.220197	5,381	1,185	4,788	17,928	3.3
96–97.....	0.236354	4,196	992	3,700	13,140	3.1
97–98.....	0.253025	3,204	811	2,799	9,440	2.9
98–99.....	0.270133	2,394	647	2,070	6,641	2.8
99–100.....	0.287594	1,747	502	1,496	4,571	2.6
100 and older.....	1.000000	1,245	1,245	3,075	3,075	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 15. Life table for Black, non-Hispanic females: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table15.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.....	0.010102	100,000	1,010	99,129	7,815,695	78.2
1-2.....	0.000719	98,990	71	98,954	7,716,566	78.0
2-3.....	0.000388	98,919	38	98,899	7,617,612	77.0
3-4.....	0.000337	98,880	33	98,864	7,518,713	76.0
4-5.....	0.000320	98,847	32	98,831	7,419,849	75.1
5-6.....	0.000233	98,815	23	98,804	7,321,018	74.1
6-7.....	0.000199	98,792	20	98,782	7,222,214	73.1
7-8.....	0.000176	98,773	17	98,764	7,123,432	72.1
8-9.....	0.000162	98,755	16	98,747	7,024,668	71.1
9-10.....	0.000156	98,739	15	98,731	6,925,921	70.1
10-11.....	0.000159	98,724	16	98,716	6,827,189	69.2
11-12.....	0.000172	98,708	17	98,700	6,728,473	68.2
12-13.....	0.000198	98,691	20	98,681	6,629,774	67.2
13-14.....	0.000237	98,672	23	98,660	6,531,093	66.2
14-15.....	0.000285	98,648	28	98,634	6,432,433	65.2
15-16.....	0.000337	98,620	33	98,603	6,333,799	64.2
16-17.....	0.000391	98,587	39	98,568	6,235,195	63.2
17-18.....	0.000451	98,548	44	98,526	6,136,628	62.3
18-19.....	0.000517	98,504	51	98,478	6,038,102	61.3
19-20.....	0.000588	98,453	58	98,424	5,939,623	60.3
20-21.....	0.000670	98,395	66	98,362	5,841,199	59.4
21-22.....	0.000752	98,329	74	98,292	5,742,837	58.4
22-23.....	0.000818	98,255	80	98,215	5,644,545	57.4
23-24.....	0.000860	98,175	84	98,133	5,546,330	56.5
24-25.....	0.000887	98,090	87	98,047	5,448,197	55.5
25-26.....	0.000909	98,003	89	97,959	5,350,150	54.6
26-27.....	0.000942	97,914	92	97,868	5,252,192	53.6
27-28.....	0.000996	97,822	97	97,773	5,154,323	52.7
28-29.....	0.001075	97,725	105	97,672	5,056,550	51.7
29-30.....	0.001168	97,620	114	97,563	4,958,878	50.8
30-31.....	0.001262	97,506	123	97,444	4,861,315	49.9
31-32.....	0.001350	97,383	131	97,317	4,763,871	48.9
32-33.....	0.001433	97,251	139	97,181	4,666,554	48.0
33-34.....	0.001516	97,112	147	97,038	4,569,373	47.1
34-35.....	0.001605	96,965	156	96,887	4,472,335	46.1
35-36.....	0.001704	96,809	165	96,726	4,375,448	45.2
36-37.....	0.001817	96,644	176	96,556	4,278,722	44.3
37-38.....	0.001954	96,468	188	96,374	4,182,166	43.4
38-39.....	0.002114	96,280	204	96,178	4,085,791	42.4
39-40.....	0.002289	96,076	220	95,966	3,989,613	41.5
40-41.....	0.002481	95,856	238	95,737	3,893,647	40.6
41-42.....	0.002678	95,619	256	95,491	3,797,910	39.7
42-43.....	0.002863	95,363	273	95,226	3,702,419	38.8
43-44.....	0.003032	95,090	288	94,945	3,607,193	37.9
44-45.....	0.003194	94,801	303	94,650	3,512,248	37.0
45-46.....	0.003375	94,498	319	94,339	3,417,598	36.2
46-47.....	0.003580	94,179	337	94,011	3,323,259	35.3
47-48.....	0.003791	93,842	356	93,664	3,229,248	34.4
48-49.....	0.004001	93,487	374	93,300	3,135,584	33.5
49-50.....	0.004216	93,112	393	92,916	3,042,284	32.7
50-51.....	0.004447	92,720	412	92,514	2,949,368	31.8
51-52.....	0.004713	92,308	435	92,090	2,856,854	30.9
52-53.....	0.005025	91,873	462	91,642	2,764,764	30.1
53-54.....	0.005402	91,411	494	91,164	2,673,122	29.2
54-55.....	0.005846	90,917	531	90,651	2,581,958	28.4
55-56.....	0.006324	90,386	572	90,100	2,491,307	27.6
56-57.....	0.006849	89,814	615	89,507	2,401,207	26.7
57-58.....	0.007469	89,199	666	88,866	2,311,701	25.9
58-59.....	0.008187	88,533	725	88,170	2,222,835	25.1
59-60.....	0.008969	87,808	788	87,414	2,134,665	24.3

See footnotes at end of table.

Table 15. Life table for Black, non-Hispanic females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table15.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
60–61.....	0.009755	87,020	849	86,596	2,047,250	23.5
61–62.....	0.010546	86,172	909	85,717	1,960,654	22.8
62–63.....	0.011400	85,263	972	84,777	1,874,937	22.0
63–64.....	0.012350	84,291	1,041	83,770	1,790,161	21.2
64–65.....	0.013396	83,250	1,115	82,692	1,706,390	20.5
65–66.....	0.014536	82,135	1,194	81,538	1,623,698	19.8
66–67.....	0.015762	80,941	1,276	80,303	1,542,161	19.1
67–68.....	0.016900	79,665	1,346	78,992	1,461,858	18.4
68–69.....	0.017972	78,319	1,408	77,615	1,382,866	17.7
69–70.....	0.019063	76,911	1,466	76,178	1,305,251	17.0
70–71.....	0.020147	75,445	1,520	74,685	1,229,073	16.3
71–72.....	0.021569	73,925	1,594	73,128	1,154,389	15.6
72–73.....	0.022996	72,330	1,663	71,499	1,081,261	14.9
73–74.....	0.024691	70,667	1,745	69,795	1,009,762	14.3
74–75.....	0.026798	68,922	1,847	67,999	939,967	13.6
75–76.....	0.028784	67,075	1,931	66,110	871,969	13.0
76–77.....	0.031592	65,145	2,058	64,116	805,859	12.4
77–78.....	0.033942	63,087	2,141	62,016	741,743	11.8
78–79.....	0.037885	60,945	2,309	59,791	679,727	11.2
79–80.....	0.041185	58,636	2,415	57,429	619,936	10.6
80–81.....	0.044895	56,221	2,524	54,959	562,507	10.0
81–82.....	0.049395	53,697	2,652	52,371	507,548	9.5
82–83.....	0.055019	51,045	2,808	49,641	455,177	8.9
83–84.....	0.060171	48,237	2,902	46,785	405,536	8.4
84–85.....	0.065775	45,334	2,982	43,843	358,751	7.9
85–86.....	0.073585	42,352	3,116	40,794	314,908	7.4
86–87.....	0.081141	39,236	3,184	37,644	274,114	7.0
87–88.....	0.089356	36,052	3,221	34,441	236,470	6.6
88–89.....	0.098263	32,831	3,226	31,218	202,029	6.2
89–90.....	0.107892	29,605	3,194	28,008	170,811	5.8
90–91.....	0.118268	26,410	3,124	24,849	142,803	5.4
91–92.....	0.129411	23,287	3,014	21,780	117,955	5.1
92–93.....	0.141333	20,273	2,865	18,841	96,174	4.7
93–94.....	0.154039	17,408	2,682	16,067	77,334	4.4
94–95.....	0.167523	14,727	2,467	13,493	61,266	4.2
95–96.....	0.181768	12,260	2,228	11,145	47,773	3.9
96–97.....	0.196748	10,031	1,974	9,044	36,628	3.7
97–98.....	0.212421	8,058	1,712	7,202	27,584	3.4
98–99.....	0.228734	6,346	1,452	5,620	20,382	3.2
99–100.....	0.245624	4,894	1,202	4,293	14,762	3.0
100 and older.....	1.000000	3,692	3,692	10,468	10,468	2.8

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 16. Life table for the White, non-Hispanic population: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table16.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.....	0.004412	100,000	441	99,613	7,893,041	78.9
1-2.....	0.000337	99,559	34	99,542	7,793,428	78.3
2-3.....	0.000219	99,525	22	99,514	7,693,886	77.3
3-4.....	0.000178	99,503	18	99,495	7,594,372	76.3
4-5.....	0.000129	99,486	13	99,479	7,494,877	75.3
5-6.....	0.000123	99,473	12	99,467	7,395,398	74.3
6-7.....	0.000113	99,461	11	99,455	7,295,931	73.4
7-8.....	0.000107	99,449	11	99,444	7,196,476	72.4
8-9.....	0.000100	99,439	10	99,434	7,097,032	71.4
9-10.....	0.000094	99,429	9	99,424	6,997,598	70.4
10-11.....	0.000092	99,419	9	99,415	6,898,174	69.4
11-12.....	0.000101	99,410	10	99,405	6,798,759	68.4
12-13.....	0.000128	99,400	13	99,394	6,699,354	67.4
13-14.....	0.000178	99,388	18	99,379	6,599,960	66.4
14-15.....	0.000243	99,370	24	99,358	6,500,581	65.4
15-16.....	0.000313	99,346	31	99,330	6,401,223	64.4
16-17.....	0.000380	99,315	38	99,296	6,301,893	63.5
17-18.....	0.000442	99,277	44	99,255	6,202,598	62.5
18-19.....	0.000495	99,233	49	99,208	6,103,343	61.5
19-20.....	0.000542	99,184	54	99,157	6,004,134	60.5
20-21.....	0.000594	99,130	59	99,101	5,904,977	59.6
21-22.....	0.000648	99,071	64	99,039	5,805,877	58.6
22-23.....	0.000696	99,007	69	98,972	5,706,838	57.6
23-24.....	0.000737	98,938	73	98,902	5,607,865	56.7
24-25.....	0.000774	98,865	77	98,827	5,508,964	55.7
25-26.....	0.000811	98,789	80	98,748	5,410,137	54.8
26-27.....	0.000855	98,708	84	98,666	5,311,388	53.8
27-28.....	0.000916	98,624	90	98,579	5,212,722	52.9
28-29.....	0.000997	98,534	98	98,485	5,114,143	51.9
29-30.....	0.001091	98,435	107	98,382	5,015,659	51.0
30-31.....	0.001189	98,328	117	98,270	4,917,277	50.0
31-32.....	0.001283	98,211	126	98,148	4,819,008	49.1
32-33.....	0.001375	98,085	135	98,018	4,720,859	48.1
33-34.....	0.001466	97,950	144	97,878	4,622,842	47.2
34-35.....	0.001557	97,807	152	97,731	4,524,963	46.3
35-36.....	0.001651	97,654	161	97,574	4,427,233	45.3
36-37.....	0.001751	97,493	171	97,408	4,329,659	44.4
37-38.....	0.001859	97,322	181	97,232	4,232,251	43.5
38-39.....	0.001975	97,141	192	97,046	4,135,019	42.6
39-40.....	0.002096	96,950	203	96,848	4,037,974	41.7
40-41.....	0.002233	96,746	216	96,638	3,941,126	40.7
41-42.....	0.002374	96,530	229	96,416	3,844,487	39.8
42-43.....	0.002501	96,301	241	96,181	3,748,072	38.9
43-44.....	0.002608	96,060	251	95,935	3,651,891	38.0
44-45.....	0.002712	95,810	260	95,680	3,555,956	37.1
45-46.....	0.002832	95,550	271	95,415	3,460,276	36.2
46-47.....	0.002989	95,279	285	95,137	3,364,862	35.3
47-48.....	0.003190	94,994	303	94,843	3,269,725	34.4
48-49.....	0.003436	94,691	325	94,529	3,174,882	33.5
49-50.....	0.003715	94,366	351	94,191	3,080,353	32.6
50-51.....	0.004026	94,016	379	93,826	2,986,162	31.8
51-52.....	0.004361	93,637	408	93,433	2,892,336	30.9
52-53.....	0.004704	93,229	439	93,009	2,798,903	30.0
53-54.....	0.005058	92,790	469	92,556	2,705,894	29.2
54-55.....	0.005443	92,321	502	92,070	2,613,338	28.3
55-56.....	0.005841	91,818	536	91,550	2,521,269	27.5
56-57.....	0.006294	91,282	575	90,995	2,429,718	26.6
57-58.....	0.006859	90,708	622	90,397	2,338,724	25.8
58-59.....	0.007541	90,085	679	89,746	2,248,327	25.0
59-60.....	0.008286	89,406	741	89,036	2,158,581	24.1

Table 16. Life table for the White, non-Hispanic population: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table16.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
60–61.....	0.009039	88,665	801	88,265	2,069,546	23.3
61–62.....	0.009770	87,864	858	87,435	1,981,281	22.5
62–63.....	0.010496	87,005	913	86,549	1,893,846	21.8
63–64.....	0.011231	86,092	967	85,609	1,807,298	21.0
64–65.....	0.012005	85,125	1,022	84,614	1,721,689	20.2
65–66.....	0.012846	84,103	1,080	83,563	1,637,075	19.5
66–67.....	0.013871	83,023	1,152	82,447	1,553,511	18.7
67–68.....	0.014835	81,871	1,215	81,264	1,471,064	18.0
68–69.....	0.015910	80,657	1,283	80,015	1,389,800	17.2
69–70.....	0.017057	79,374	1,354	78,697	1,309,785	16.5
70–71.....	0.018225	78,020	1,422	77,309	1,231,088	15.8
71–72.....	0.019625	76,598	1,503	75,846	1,153,780	15.1
72–73.....	0.021358	75,095	1,604	74,293	1,077,934	14.4
73–74.....	0.023256	73,491	1,709	72,636	1,003,641	13.7
74–75.....	0.025607	71,782	1,838	70,863	931,005	13.0
75–76.....	0.028209	69,943	1,973	68,957	860,142	12.3
76–77.....	0.031209	67,970	2,121	66,910	791,185	11.6
77–78.....	0.033669	65,849	2,217	64,741	724,275	11.0
78–79.....	0.038556	63,632	2,453	62,405	659,535	10.4
79–80.....	0.042286	61,179	2,587	59,885	597,129	9.8
80–81.....	0.047568	58,592	2,787	57,198	537,244	9.2
81–82.....	0.052685	55,805	2,940	54,335	480,046	8.6
82–83.....	0.059452	52,865	3,143	51,293	425,711	8.1
83–84.....	0.065860	49,722	3,275	48,084	374,418	7.5
84–85.....	0.073640	46,447	3,420	44,737	326,334	7.0
85–86.....	0.080580	43,027	3,467	41,293	281,597	6.5
86–87.....	0.090887	39,560	3,595	37,762	240,304	6.1
87–88.....	0.102282	35,964	3,678	34,125	202,542	5.6
88–89.....	0.114821	32,286	3,707	30,432	168,417	5.2
89–90.....	0.128548	28,579	3,674	26,742	137,985	4.8
90–91.....	0.143488	24,905	3,574	23,118	111,243	4.5
91–92.....	0.159650	21,331	3,406	19,629	88,125	4.1
92–93.....	0.177016	17,926	3,173	16,339	68,497	3.8
93–94.....	0.195542	14,753	2,885	13,310	52,157	3.5
94–95.....	0.215156	11,868	2,553	10,591	38,847	3.3
95–96.....	0.235752	9,314	2,196	8,216	28,256	3.0
96–97.....	0.257197	7,119	1,831	6,203	20,039	2.8
97–98.....	0.279329	5,288	1,477	4,549	13,836	2.6
98–99.....	0.301960	3,811	1,151	3,235	9,287	2.4
99–100.....	0.324887	2,660	864	2,228	6,052	2.3
100 and older.....	1.000000	1,796	1,796	3,824	3,824	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 17. Life table for White, non-Hispanic males: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table17.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.....	0.004726	100,000	473	99,589	7,666,340	76.7
1-2.....	0.000424	99,527	42	99,506	7,566,751	76.0
2-3.....	0.000243	99,485	24	99,473	7,467,245	75.1
3-4.....	0.000230	99,461	23	99,450	7,367,772	74.1
4-5.....	0.000164	99,438	16	99,430	7,268,322	73.1
5-6.....	0.000137	99,422	14	99,415	7,168,892	72.1
6-7.....	0.000123	99,408	12	99,402	7,069,477	71.1
7-8.....	0.000113	99,396	11	99,390	6,970,075	70.1
8-9.....	0.000105	99,385	10	99,380	6,870,685	69.1
9-10.....	0.000098	99,374	10	99,369	6,771,305	68.1
10-11.....	0.000097	99,365	10	99,360	6,671,936	67.1
11-12.....	0.000112	99,355	11	99,349	6,572,576	66.2
12-13.....	0.000153	99,344	15	99,336	6,473,227	65.2
13-14.....	0.000224	99,329	22	99,318	6,373,890	64.2
14-15.....	0.000315	99,306	31	99,291	6,274,573	63.2
15-16.....	0.000414	99,275	41	99,255	6,175,282	62.2
16-17.....	0.000509	99,234	51	99,209	6,076,027	61.2
17-18.....	0.000599	99,184	59	99,154	5,976,819	60.3
18-19.....	0.000679	99,124	67	99,091	5,877,665	59.3
19-20.....	0.000752	99,057	75	99,020	5,778,574	58.3
20-21.....	0.000831	98,982	82	98,941	5,679,555	57.4
21-22.....	0.000912	98,900	90	98,855	5,580,613	56.4
22-23.....	0.000984	98,810	97	98,761	5,481,758	55.5
23-24.....	0.001043	98,713	103	98,661	5,382,997	54.5
24-25.....	0.001096	98,610	108	98,556	5,284,336	53.6
25-26.....	0.001147	98,502	113	98,445	5,185,780	52.6
26-27.....	0.001207	98,389	119	98,329	5,087,335	51.7
27-28.....	0.001284	98,270	126	98,207	4,989,006	50.8
28-29.....	0.001383	98,144	136	98,076	4,890,799	49.8
29-30.....	0.001495	98,008	146	97,935	4,792,723	48.9
30-31.....	0.001609	97,862	157	97,783	4,694,788	48.0
31-32.....	0.001721	97,704	168	97,620	4,597,005	47.1
32-33.....	0.001832	97,536	179	97,447	4,499,385	46.1
33-34.....	0.001943	97,357	189	97,263	4,401,938	45.2
34-35.....	0.002056	97,168	200	97,068	4,304,676	44.3
35-36.....	0.002174	96,968	211	96,863	4,207,607	43.4
36-37.....	0.002297	96,758	222	96,646	4,110,744	42.5
37-38.....	0.002427	96,535	234	96,418	4,014,098	41.6
38-39.....	0.002564	96,301	247	96,178	3,917,680	40.7
39-40.....	0.002706	96,054	260	95,924	3,821,502	39.8
40-41.....	0.002866	95,794	275	95,657	3,725,578	38.9
41-42.....	0.003030	95,520	289	95,375	3,629,921	38.0
42-43.....	0.003174	95,230	302	95,079	3,534,546	37.1
43-44.....	0.003290	94,928	312	94,772	3,439,467	36.2
44-45.....	0.003398	94,616	321	94,455	3,344,696	35.4
45-46.....	0.003523	94,294	332	94,128	3,250,241	34.5
46-47.....	0.003694	93,962	347	93,788	3,156,113	33.6
47-48.....	0.003923	93,615	367	93,431	3,062,325	32.7
48-49.....	0.004215	93,248	393	93,051	2,968,893	31.8
49-50.....	0.004552	92,855	423	92,643	2,875,842	31.0
50-51.....	0.004930	92,432	456	92,204	2,783,199	30.1
51-52.....	0.005333	91,976	491	91,731	2,690,995	29.3
52-53.....	0.005750	91,486	526	91,223	2,599,264	28.4
53-54.....	0.006184	90,960	563	90,678	2,508,042	27.6
54-55.....	0.006657	90,397	602	90,096	2,417,363	26.7
55-56.....	0.007145	89,795	642	89,475	2,327,267	25.9
56-57.....	0.007698	89,154	686	88,811	2,237,793	25.1
57-58.....	0.008392	88,467	742	88,096	2,148,982	24.3
58-59.....	0.009234	87,725	810	87,320	2,060,886	23.5
59-60.....	0.010156	86,915	883	86,474	1,973,566	22.7

Table 17. Life table for White, non-Hispanic males: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table17.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
60–61.....	0.011089	86,032	954	85,555	1,887,092	21.9
61–62.....	0.011990	85,078	1,020	84,568	1,801,537	21.2
62–63.....	0.012871	84,058	1,082	83,517	1,716,968	20.4
63–64.....	0.013750	82,976	1,141	82,406	1,633,451	19.7
64–65.....	0.014662	81,835	1,200	81,235	1,551,045	19.0
65–66.....	0.015639	80,636	1,261	80,005	1,469,810	18.2
66–67.....	0.016866	79,374	1,339	78,705	1,389,805	17.5
67–68.....	0.018015	78,036	1,406	77,333	1,311,100	16.8
68–69.....	0.019322	76,630	1,481	75,890	1,233,767	16.1
69–70.....	0.020719	75,149	1,557	74,371	1,157,877	15.4
70–71.....	0.022120	73,592	1,628	72,778	1,083,507	14.7
71–72.....	0.023786	71,964	1,712	71,109	1,010,728	14.0
72–73.....	0.025772	70,253	1,811	69,347	939,620	13.4
73–74.....	0.027935	68,442	1,912	67,486	870,272	12.7
74–75.....	0.030484	66,530	2,028	65,516	802,786	12.1
75–76.....	0.033411	64,502	2,155	63,425	737,270	11.4
76–77.....	0.036648	62,347	2,285	61,205	673,845	10.8
77–78.....	0.039329	60,062	2,362	58,881	612,641	10.2
78–79.....	0.044744	57,700	2,582	56,409	553,760	9.6
79–80.....	0.049136	55,118	2,708	53,764	497,350	9.0
80–81.....	0.055188	52,410	2,892	50,964	443,586	8.5
81–82.....	0.060812	49,518	3,011	48,012	392,623	7.9
82–83.....	0.068816	46,506	3,200	44,906	344,611	7.4
83–84.....	0.075783	43,306	3,282	41,665	299,704	6.9
84–85.....	0.085067	40,024	3,405	38,322	258,039	6.4
85–86.....	0.093614	36,619	3,428	34,905	219,718	6.0
86–87.....	0.102165	33,191	3,391	31,496	184,812	5.6
87–88.....	0.115258	29,800	3,435	28,083	153,317	5.1
88–89.....	0.129644	26,366	3,418	24,656	125,234	4.7
89–90.....	0.145352	22,947	3,335	21,280	100,577	4.4
90–91.....	0.162387	19,612	3,185	18,020	79,298	4.0
91–92.....	0.180727	16,427	2,969	14,943	61,278	3.7
92–93.....	0.200316	13,458	2,696	12,110	46,335	3.4
93–94.....	0.221062	10,762	2,379	9,573	34,225	3.2
94–95.....	0.242838	8,383	2,036	7,365	24,652	2.9
95–96.....	0.265481	6,348	1,685	5,505	17,286	2.7
96–97.....	0.288796	4,662	1,346	3,989	11,782	2.5
97–98.....	0.312564	3,316	1,036	2,798	7,792	2.4
98–99.....	0.336546	2,279	767	1,896	4,995	2.2
99–100.....	0.360494	1,512	545	1,240	3,099	2.0
100 and older.....	1.000000	967	967	1,859	1,859	1.9

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 18. Life table for White, non-Hispanic females: United States, 2024Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table18.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.....	0.004083	100,000	408	99,639	8,125,981	81.3
1-2.....	0.000248	99,592	25	99,579	8,026,342	80.6
2-3.....	0.000189	99,567	19	99,558	7,926,763	79.6
3-4.....	0.000125	99,548	12	99,542	7,827,206	78.6
4-5.....	0.000094	99,536	9	99,531	7,727,664	77.6
5-6.....	0.000106	99,526	11	99,521	7,628,133	76.6
6-7.....	0.000100	99,516	10	99,511	7,528,611	75.7
7-8.....	0.000096	99,506	10	99,501	7,429,100	74.7
8-9.....	0.000092	99,496	9	99,492	7,329,599	73.7
9-10.....	0.000087	99,487	9	99,483	7,230,108	72.7
10-11.....	0.000085	99,479	8	99,474	7,130,625	71.7
11-12.....	0.000088	99,470	9	99,466	7,031,150	70.7
12-13.....	0.000103	99,461	10	99,456	6,931,685	69.7
13-14.....	0.000131	99,451	13	99,445	6,832,228	68.7
14-15.....	0.000167	99,438	17	99,430	6,732,784	67.7
15-16.....	0.000206	99,422	21	99,411	6,633,354	66.7
16-17.....	0.000244	99,401	24	99,389	6,533,943	65.7
17-18.....	0.000276	99,377	27	99,363	6,434,554	64.7
18-19.....	0.000301	99,349	30	99,334	6,335,191	63.8
19-20.....	0.000321	99,319	32	99,303	6,235,856	62.8
20-21.....	0.000343	99,288	34	99,270	6,136,553	61.8
21-22.....	0.000369	99,253	37	99,235	6,037,282	60.8
22-23.....	0.000394	99,217	39	99,197	5,938,047	59.8
23-24.....	0.000415	99,178	41	99,157	5,838,850	58.9
24-25.....	0.000437	99,137	43	99,115	5,739,693	57.9
25-26.....	0.000459	99,093	45	99,070	5,640,578	56.9
26-27.....	0.000488	99,048	48	99,024	5,541,508	55.9
27-28.....	0.000532	98,999	53	98,973	5,442,484	55.0
28-29.....	0.000597	98,947	59	98,917	5,343,511	54.0
29-30.....	0.000673	98,888	67	98,854	5,244,594	53.0
30-31.....	0.000754	98,821	74	98,784	5,145,739	52.1
31-32.....	0.000832	98,747	82	98,706	5,046,955	51.1
32-33.....	0.000906	98,665	89	98,620	4,948,250	50.2
33-34.....	0.000976	98,575	96	98,527	4,849,630	49.2
34-35.....	0.001045	98,479	103	98,428	4,751,103	48.2
35-36.....	0.001116	98,376	110	98,321	4,652,675	47.3
36-37.....	0.001194	98,266	117	98,208	4,554,354	46.3
37-38.....	0.001279	98,149	126	98,086	4,456,146	45.4
38-39.....	0.001372	98,023	135	97,956	4,358,060	44.5
39-40.....	0.001473	97,889	144	97,817	4,260,104	43.5
40-41.....	0.001585	97,745	155	97,667	4,162,287	42.6
41-42.....	0.001701	97,590	166	97,507	4,064,620	41.7
42-43.....	0.001810	97,424	176	97,336	3,967,113	40.7
43-44.....	0.001909	97,247	186	97,155	3,869,777	39.8
44-45.....	0.002009	97,062	195	96,964	3,772,623	38.9
45-46.....	0.002125	96,867	206	96,764	3,675,658	37.9
46-47.....	0.002269	96,661	219	96,551	3,578,894	37.0
47-48.....	0.002442	96,442	236	96,324	3,482,343	36.1
48-49.....	0.002641	96,206	254	96,079	3,386,019	35.2
49-50.....	0.002859	95,952	274	95,815	3,289,940	34.3
50-51.....	0.003102	95,678	297	95,529	3,194,125	33.4
51-52.....	0.003366	95,381	321	95,221	3,098,596	32.5
52-53.....	0.003635	95,060	346	94,887	3,003,375	31.6
53-54.....	0.003911	94,714	370	94,529	2,908,488	30.7
54-55.....	0.004210	94,344	397	94,145	2,813,959	29.8
55-56.....	0.004523	93,947	425	93,734	2,719,813	29.0
56-57.....	0.004881	93,522	457	93,294	2,626,079	28.1
57-58.....	0.005325	93,065	496	92,818	2,532,785	27.2
58-59.....	0.005856	92,570	542	92,299	2,439,968	26.4
59-60.....	0.006436	92,028	592	91,732	2,347,669	25.5

Table 18. Life table for White, non-Hispanic females: United States, 2024—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/75-05/Table18.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
60–61.....	0.007023	91,435	642	91,114	2,255,937	24.7
61–62.....	0.007600	90,793	690	90,448	2,164,823	23.8
62–63.....	0.008186	90,103	738	89,734	2,074,375	23.0
63–64.....	0.008796	89,366	786	88,973	1,984,640	22.2
64–65.....	0.009452	88,580	837	88,161	1,895,668	21.4
65–66.....	0.010178	87,742	893	87,296	1,807,507	20.6
66–67.....	0.011042	86,849	959	86,370	1,720,211	19.8
67–68.....	0.011856	85,890	1,018	85,381	1,633,841	19.0
68–69.....	0.012748	84,872	1,082	84,331	1,548,460	18.2
69–70.....	0.013698	83,790	1,148	83,216	1,464,129	17.5
70–71.....	0.014676	82,642	1,213	82,036	1,380,913	16.7
71–72.....	0.015876	81,430	1,293	80,783	1,298,877	16.0
72–73.....	0.017422	80,137	1,396	79,439	1,218,093	15.2
73–74.....	0.019131	78,741	1,506	77,987	1,138,655	14.5
74–75.....	0.021356	77,234	1,649	76,409	1,060,667	13.7
75–76.....	0.023729	75,585	1,794	74,688	984,258	13.0
76–77.....	0.026567	73,791	1,960	72,811	909,570	12.3
77–78.....	0.028860	71,831	2,073	70,794	836,759	11.6
78–79.....	0.033355	69,758	2,327	68,594	765,965	11.0
79–80.....	0.036607	67,431	2,468	66,197	697,370	10.3
80–81.....	0.041380	64,963	2,688	63,619	631,174	9.7
81–82.....	0.046205	62,274	2,877	60,836	567,555	9.1
82–83.....	0.052177	59,397	3,099	57,847	506,719	8.5
83–84.....	0.058346	56,298	3,285	54,656	448,872	8.0
84–85.....	0.065222	53,013	3,458	51,284	394,216	7.4
85–86.....	0.072201	49,556	3,578	47,767	342,932	6.9
86–87.....	0.081881	45,978	3,765	44,095	295,165	6.4
87–88.....	0.092657	42,213	3,911	40,257	251,070	5.9
88–89.....	0.104596	38,302	4,006	36,298	210,813	5.5
89–90.....	0.117759	34,295	4,039	32,276	174,515	5.1
90–91.....	0.132189	30,257	4,000	28,257	142,238	4.7
91–92.....	0.147910	26,257	3,884	24,315	113,981	4.3
92–93.....	0.164924	22,373	3,690	20,529	89,666	4.0
93–94.....	0.183204	18,684	3,423	16,972	69,138	3.7
94–95.....	0.202692	15,261	3,093	13,714	52,166	3.4
95–96.....	0.223295	12,167	2,717	10,809	38,451	3.2
96–97.....	0.244887	9,451	2,314	8,293	27,642	2.9
97–98.....	0.267308	7,136	1,908	6,182	19,349	2.7
98–99.....	0.290369	5,229	1,518	4,470	13,167	2.5
99–100.....	0.313855	3,710	1,165	3,128	8,697	2.3
100 and older.....	1.000000	2,546	2,546	5,569	5,569	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 19. Estimated life expectancy at birth, in years, by Hispanic origin and race and sex: Death-registration states, 1900–1928, and United States, 1929–2024

[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*			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
United States§	Single race¶																	
2024**	79.0	76.5	81.4	81.8	79.2	84.3	71.1	67.8	74.6	85.8	83.7	87.7	74.8	71.3	78.2	78.9	76.7	81.3
2023**	78.4	75.8	81.1	81.3	78.5	84.0	70.1	66.7	73.5	85.2	83.2	87.1	74.0	70.3	77.6	78.4	76.0	80.9
2022**	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**	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**	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**	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**	78.7	76.2	81.2	81.8	79.1	84.3	---	---	---	---	---	---	74.7	71.3	78.0	78.6	76.2	81.1
Bridged race¶																		
2020**	...	...	...	...	...	...	---	---	---	---	---	---	71.9	68.1	75.6	77.5	74.9	80.2
2019**	...	...	...	...	...	...	---	---	---	---	---	---	75.0	71.6	78.2	78.8	76.4	81.3
2018**	...	...	...	...	...	...	---	---	---	---	---	---	74.9	71.5	78.1	78.7	76.2	81.1
2017**	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**	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**	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**	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**	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**	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**	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**	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**††	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**††	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**††	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**††	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**††	77.6	75.0	80.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2004**††	77.6	75.0	80.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2003**††	77.2	74.5	79.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2002**††	77.0	74.4	79.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2001**††	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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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, 1929–2024—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*			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
United States—Con.	Bridged race‡—Con.																	
1973.....	71.4	67.6	75.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1972§§.....	71.2	67.4	75.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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¶¶.....	69.9	66.6	73.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1962¶¶.....	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, 1929–2024—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*			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
Death-registration states	Bridged race¶—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.

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

† Before 1970, data for the Black population are not available. Data shown for 1900–1969 are for the non-White population. See Technical Notes.

§ Includes Alaska in 1959 and Hawaii in 1960.

¶ 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.

** Life expectancies for 2001–2024 were calculated using a revised methodology described in Technical Notes.

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

§§ Deaths based on a 50% sample.

¶¶ 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 (NCHS) 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 2008–2024 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 2008–2024 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 2024 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 (regardless 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 2008–2024 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.

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 (NVSS), 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 (CMS).

Vital statistics data

Death counts used for computing the life tables presented in this report are final numbers of deaths for 2024 collected from death certificates filed in state vital statistics offices and reported to NCHS as part of NVSS. 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) (see <https://www2.census.gov/programs-surveys/popest/technical-documentation/methodology/2020-2024/methods-statement-v2024.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 (20,21). Further, the Medicare race and ethnicity classification system makes it impossible to correctly identify the Hispanic (regardless of race), American Indian and Alaska Native, Asian, or Native Hawaiian and Other Pacific Islander (regardless of Hispanic origin) populations (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 two 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 in this report (14).

To estimate death rates for the Medicare total, Black non-Hispanic, and White non-Hispanic populations in 2024, age-specific numbers of deaths and population counts by sex and race for the population ages 66–99 were used from the 2024 Medicare file. CMS creates this data file for the Social Security Administration, which shares the data with NCHS under a special agreement. The 2024 file contains 2024 midyear Medicare population counts (June 30, 2024) and calendar-year Medicare death counts (January 1 through December 31, 2024). 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 2024.

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). 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 Census Edited File (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 the 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 CPS or the decennial census, with Hispanic origin and race reported on the death certificates of the samples of decedents in NLMS who died during 1999–2011 and decedents in the CEF–CUF 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 CPS) of self-reported race and ethnicity on the survey or census to the count (weighted in the case of CPS) of the same racial or ethnic category on the death certificates of the sample of NLMS (CEF–CUF 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). The race and ethnicity reported by a survey or census respondent is assumed to be 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, and ${}_nD_x$ are the final age-specific counts of death

Table 1. Values for F used to adjust for not-stated age based on 2024 mortality data

Hispanic origin and race and sex	Total deaths	Total deaths for which age was not stated	F
Total	3,072,666	57	1.00001855
Male	1,599,440	38	1.00002376
Female	1,473,226	19	1.00001290
Hispanic	260,799	5	1.00001917
Male	145,230	5	1.00003443
Female	115,569	–	1.00000000
Non-Hispanic:			
American Indian and Alaska Native	20,924	–	1.00000000
Male	11,356	–	1.00000000
Female	9,568	–	1.00000000
Asian	87,728	–	1.00000000
Male	45,118	–	1.00000000
Female	42,610	–	1.00000000
Black	380,945	2	1.00000525
Male	201,255	1	1.00000497
Female	179,690	1	1.00000557
White	2,290,348	23	1.00001004
Male	1,177,767	11	1.00000934
Female	1,112,581	12	1.00001079

– Quantity zero.

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

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 2023 and 2024 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 4.9% for Hispanic and 3.3% for Black non-Hispanic infants, and underestimates the infant mortality rate by 18.8% for Asian non-Hispanic, 5.4% for American Indian and Alaska Native non-Hispanic, and 2.5% 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”), using the linked birth/infant death data file is preferable.

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,

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

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

Non-Hispanic															
	Hispanic*			American Indian and Alaska Native*			Asian*†			Black*			White*		
Age (years)	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§.	1.0492	1.0569	1.0409	0.9457	0.9412	0.9516	0.8118	0.7948	0.8273	1.0328	1.0407	1.0246	0.9751	0.9641	0.9853
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 older	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

* 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). 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>).

† Classification ratios for the Asian non-Hispanic population were estimated based on data for the Asian 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 over 95% of the Asian and Pacific Islander non-Hispanic populations combined.

§ 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 2024 linked birth/infant death data file. They are only shown for illustrative purposes; see report text for details.

¶ Ratio is unreliable 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.

NOTE: People of Hispanic origin may be of any race.
SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

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:

$$q_x = \frac{m_x}{1 + (1 - a_x)m_x} \quad [3]$$

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 the 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 2024, B^t is the number of live births in 2024, and B^{t-1} is the number of live births in 2023. Table III shows separation factors and numbers of births for 2023 and 2024.

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 age 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 $x = 66, \dots, 94$, and

$$M_x = M_x^M$$

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

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

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:

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

Table III. Births in 2023 and 2024, deaths in 2024 of infants born in 2023 and 2024, 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																		
2023.	3,596,017	1,839,794	1,756,223	945,200	482,254	462,946	24,571	12,505	12,066	215,738	111,542	104,196	491,494	249,931	241,563	1,787,051	916,170	870,881
2024.	3,628,934	1,853,969	1,774,965	984,092	501,012	483,080	24,021	12,399	11,622	226,860	116,716	110,144	473,377	240,537	232,840	1,783,156	913,082	870,074
Deaths in 2024																		
Infants born in 2023.	2,486	1,395	1,089	514	271	245	37	23	14	89	48	41	738	411	326	968	561	409
Infants born in 2024.	17,564	9,506	8,060	4,290	2,286	2,002	184	114	70	754	401	354	4,461	2,423	2,038	6,902	3,756	3,144
Separation factor, <i>f</i>	0.124	0.128	0.119	0.107	0.106	0.109	0.167	0.171	0.163	0.105	0.106	0.104	0.142	0.145	0.138	0.123	0.130	0.115

NOTE: People of Hispanic origin may be of any race.
 SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

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 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:

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

where a and b are the predicted values of parameters $\ln(\alpha)$ and β , respectively, given by fitting model [9]. Estimated parameters and the starting age for the modeled age span by population in 2024 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 noted previously, 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 about 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 American Indian and Alaska Native non-Hispanic 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

Table IV. Estimated parameters α and β used for predicting m_x and starting age of modeled age span: U.S. Life Tables, 2024

Parameter	Total			Black, non-Hispanic			White, non-Hispanic		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Starting age	85	86	85	86	86	85	85	86	85
$\ln(\alpha)$ (standard error)	-13.83726 (0.076)	-13.98503 (0.113)	-14.35509 (0.068)	-11.21518 (0.203)	-11.34083 (0.165)	-11.89065 (0.177)	-14.12896 (0.077)	-14.50336 (0.144)	-14.60313 (0.064)
β (standard error)	0.1343224 (0.001)	0.1377693 (0.001)	0.1389436 (0.001)	0.1041198 (0.002)	0.1076686 (0.002)	0.1105682 (0.002)	0.1381091 (0.001)	0.1440528 (0.002)	0.1422289 (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, 2024

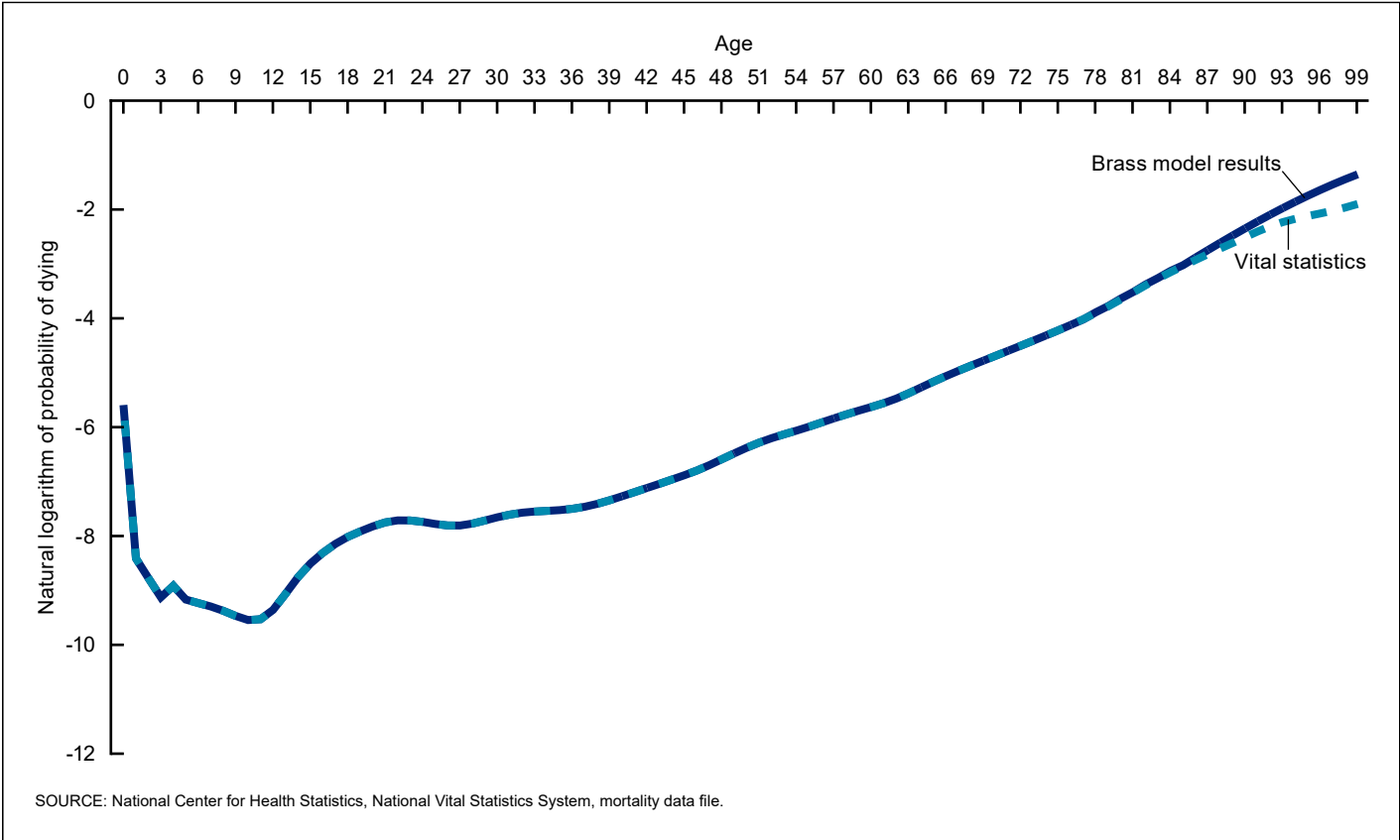
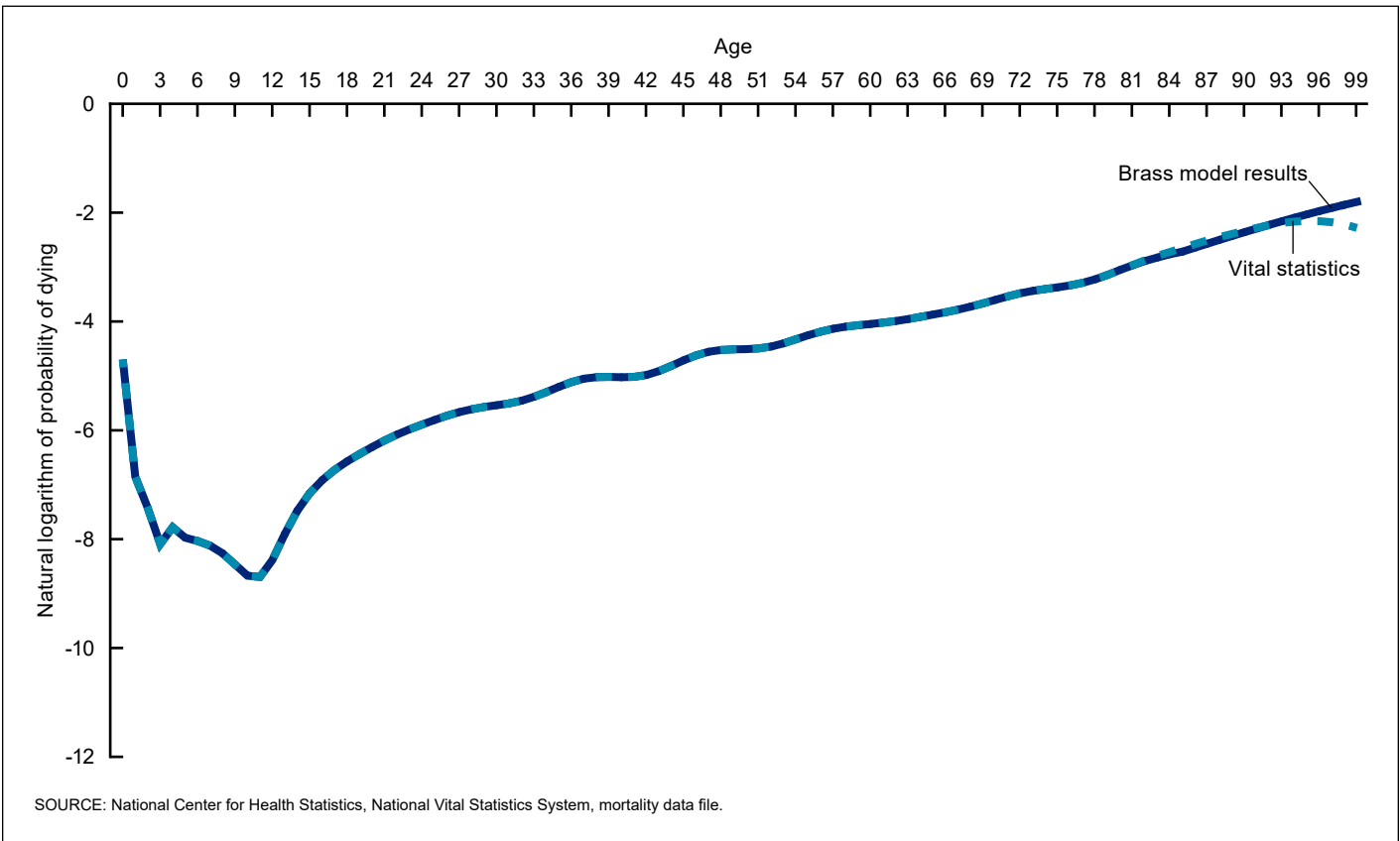


Figure II. Age pattern of mortality for the American Indian and Alaska Native, non-Hispanic population: United States, 2024



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,

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

α is the predicted parameter that measures the level of mortality of the population of interest relative to the standard population, and β 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 α and β 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 α and β 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, 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 :

$$L_0 = fl_0 + (1-f)l_1 \quad [18]$$

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).

Table V. Estimated Brass relational logit model parameters α and β for the Hispanic, American Indian and Alaska Native non-Hispanic populations: U.S. Life Tables, 2024

Parameter	Non-Hispanic								
	Hispanic			American Indian and Alaska Native			Asian		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
α (standard error)	-0.3196117 (0.025)	-0.3445681 (0.031)	-0.1869579 (0.023)	-1.1682490 (0.037)	-1.3255100 (0.043)	-0.9737332 (0.0345)	-0.2160644 (0.033)	-0.2624299 (0.413)	-0.1508820 (0.034)
β (standard error)	0.9974429 (0.006)	0.9811300 (0.008)	1.0397810 (0.005)	0.6046024 (0.009)	0.5491106 (0.01)	0.6643455 (0.009)	1.1292460 (0.009)	1.1036460 (0.01)	1.1550840 (0.009)

NOTE: Hispanic people may be of any race.
SOURCE: National Center for Health Statistics, National Vital Statistics System, mortality data file.

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 2023 to 2024.

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).

$${}_nq_x = \frac{{}_nd_x}{l_x}$$
$${}_nL_x = T_x - T_{x+n}$$

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 2024 U.S. total population abridged from Table 1.

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). Thus, ${}_5q_{20}$ 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:

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

Table VI. Life table for the total population: United States, 2024

Age (years)	Probability of dying between ages x and $x + n$	Number surviving to age x	Number dying between ages x and $x + n$	Person-years lived between ages x and $x + n$	Total number of person-years lived above age x	Expectation of life at age x
	nq_x	l_x	$n d_x$	nL_x	T_x	e_x
0-1.....	0.005531	100,000	553	99,515	7,897,103	79.0
1-5.....	0.001032	99,447	103	397,545	7,797,588	78.4
5-10.....	0.000628	99,344	62	496,555	7,400,043	74.5
10-15.....	0.000810	99,282	80	496,253	6,903,489	69.5
15-20.....	0.002540	99,202	252	495,449	6,407,236	64.6
20-25.....	0.004129	98,950	409	493,775	5,911,788	59.7
25-30.....	0.005219	98,541	514	491,478	5,418,013	55.0
30-35.....	0.007118	98,027	698	488,464	4,926,535	50.3
35-40.....	0.009253	97,329	901	484,488	4,438,071	45.6
40-45.....	0.012101	96,428	1,167	479,332	3,953,584	41.0
45-50.....	0.015736	95,262	1,499	472,747	3,474,252	36.5
50-55.....	0.022552	93,763	2,115	463,821	3,001,505	32.0
55-60.....	0.033316	91,648	3,053	451,109	2,537,683	27.7
60-65.....	0.050357	88,595	4,461	432,393	2,086,575	23.6
65-70.....	0.071930	84,133	6,052	406,226	1,654,181	19.7
70-75.....	0.102345	78,082	7,991	371,408	1,247,956	16.0
75-80.....	0.158277	70,090	11,094	324,227	876,548	12.5
80-85.....	0.257987	58,997	15,220	258,500	552,320	9.4
85-90.....	0.410387	43,776	17,965	174,515	293,821	6.7
90-95.....	0.608953	25,811	15,718	87,388	119,305	4.6
95-100.....	0.790316	10,093	7,977	27,209	31,918	3.2
100 and older.....	1.000000	2,116	2,116	4,709	4,709	2.2

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

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National Vital Statistics Reports, Vol. 75, No. 5, August 26, 2026

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Acknowledgments

The authors are grateful for the reviews and comments provided by Robert N. Anderson, Statistical Analysis and Surveillance Branch (SASB), Division of Vital Statistics (DVS); Andrés A. Berruti, DVS; and Amy M. Branum, Office of the Director. The authors thank Brady Hamilton, Danielle Ely, and Anne Driscoll of SASB for their assistance with birth data. The National Center for Health Statistics Office of Information Services, Information Design and Publishing Staff edited and produced this report: editor Laura Drescher and typesetters and graphic designers Ebony Davis and Jiale Feng.

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Suggested citation

Arias E, Xu JQ, Tejada-Vera B. United States life tables, 2024. Natl Vital Stat Rep. 2026 Aug;75(5):1–64. DOI: <https://dx.doi.org/10.15620/cdc/252458>.

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National Center for Health Statistics

Carolyn M. Greene, M.D., *Acting Director*
Amy M. Branum, Ph.D., *Associate Director for Science*

Division of Vital Statistics

Paul D. Sutton, Ph.D., *Director*
Andrés A. Berruti, Ph.D., M.A., *Associate Director for Science*