

U.S. Depart. of Health & Human Services. Centers for CDC. Nat. Center for Health Statistics (2019): United States Life Tables, 2016. National Vital Statistics Report Volume 68, Number 4. 65pp. (PHS) 2019-1120. Downloaded from: www.cdc.gov (09.07.2019).

Table 2. Life table for males: United States, 2016Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/68_04/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.....	0.006369	100,000	637	99,445	7,615,555	76.2
1-2.....	0.000432	99,363	43	99,342	7,516,110	75.6
2-3.....	0.000280	99,320	28	99,306	7,416,769	74.7
3-4.....	0.000228	99,292	23	99,281	7,317,462	73.7
4-5.....	0.000166	99,270	16	99,262	7,218,181	72.7
5-6.....	0.000166	99,253	17	99,245	7,118,920	71.7
6-7.....	0.000150	99,237	15	99,229	7,019,675	70.7
7-8.....	0.000133	99,222	13	99,215	6,920,445	69.7
8-9.....	0.000115	99,209	11	99,203	6,821,230	68.8
9-10.....	0.000097	99,197	10	99,193	6,722,027	67.8
10-11.....	0.000085	99,188	8	99,184	6,622,834	66.8
11-12.....	0.000092	99,179	9	99,175	6,523,651	65.8
12-13.....	0.000131	99,170	13	99,164	6,424,476	64.8
13-14.....	0.000209	99,157	21	99,147	6,325,312	63.8
14-15.....	0.000319	99,136	32	99,121	6,226,166	62.8
15-16.....	0.000436	99,105	43	99,083	6,127,045	61.8
16-17.....	0.000556	99,062	55	99,034	6,027,962	60.9
17-18.....	0.000695	99,007	69	98,972	5,928,928	59.9
18-19.....	0.000852	98,938	84	98,896	5,829,956	58.9
19-20.....	0.001015	98,853	100	98,803	5,731,060	58.0
20-21.....	0.001182	98,753	117	98,695	5,632,257	57.0
21-22.....	0.001337	98,636	132	98,570	5,533,562	56.1
22-23.....	0.001456	98,504	143	98,433	5,434,992	55.2
23-24.....	0.001531	98,361	151	98,286	5,336,559	54.3
24-25.....	0.001573	98,210	154	98,133	5,238,273	53.3
25-26.....	0.001604	98,056	157	97,977	5,140,140	52.4
26-27.....	0.001639	97,899	160	97,819	5,042,163	51.5
27-28.....	0.001673	97,738	164	97,657	4,944,344	50.6
28-29.....	0.001712	97,575	167	97,491	4,846,687	49.7
29-30.....	0.001755	97,408	171	97,322	4,749,196	48.8
30-31.....	0.001799	97,237	175	97,149	4,651,874	47.8
31-32.....	0.001841	97,062	179	96,973	4,554,724	46.9
32-33.....	0.001887	96,883	183	96,792	4,457,752	46.0
33-34.....	0.001937	96,700	187	96,607	4,360,960	45.1
34-35.....	0.001992	96,513	192	96,417	4,264,353	44.2
35-36.....	0.002058	96,321	198	96,222	4,167,936	43.3
36-37.....	0.002131	96,123	205	96,020	4,071,714	42.4
37-38.....	0.002201	95,918	211	95,812	3,975,694	41.4
38-39.....	0.002265	95,707	217	95,598	3,879,882	40.5
39-40.....	0.002333	95,490	223	95,378	3,784,284	39.6
40-41.....	0.002419	95,267	230	95,152	3,688,905	38.7
41-42.....	0.002535	95,037	241	94,916	3,593,753	37.8
42-43.....	0.002674	94,796	253	94,669	3,498,837	36.9
43-44.....	0.002836	94,542	268	94,408	3,404,168	36.0
44-45.....	0.003022	94,274	285	94,132	3,309,760	35.1
45-46.....	0.003222	93,989	303	93,838	3,215,628	34.2
46-47.....	0.003455	93,686	324	93,525	3,121,791	33.3
47-48.....	0.003747	93,363	350	93,188	3,028,266	32.4
48-49.....	0.004116	93,013	383	92,821	2,935,078	31.6
49-50.....	0.004549	92,630	421	92,419	2,842,257	30.7
50-51.....	0.005009	92,209	462	91,978	2,749,838	29.8
51-52.....	0.005487	91,747	503	91,495	2,657,860	29.0
52-53.....	0.006015	91,243	549	90,969	2,566,365	28.1
53-54.....	0.006595	90,695	598	90,395	2,475,396	27.3
54-55.....	0.007213	90,096	650	89,772	2,385,000	26.5
55-56.....	0.007853	89,447	702	89,095	2,295,229	25.7
56-57.....	0.008504	88,744	755	88,367	2,206,133	24.9
57-58.....	0.009176	87,989	807	87,586	2,117,767	24.1
58-59.....	0.009883	87,182	862	86,751	2,030,181	23.3
59-60.....	0.010640	86,320	918	85,861	1,943,430	22.5
60-61.....	0.011466	85,402	979	84,912	1,857,568	21.8

Table 2. Life table for males: United States, 2016—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/68_04/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
61–62.	0.012349	84,423	1,043	83,901	1,772,656	21.0
62–63.	0.013256	83,380	1,105	82,828	1,688,754	20.3
63–64.	0.014147	82,275	1,164	81,693	1,605,927	19.5
64–65.	0.015022	81,111	1,218	80,502	1,524,234	18.8
65–66.	0.015914	79,892	1,271	79,257	1,443,732	18.1
66–67.	0.016896	78,621	1,328	77,957	1,364,475	17.4
67–68.	0.017990	77,293	1,390	76,598	1,286,519	16.6
68–69.	0.019263	75,902	1,462	75,171	1,209,921	15.9
69–70.	0.020782	74,440	1,547	73,667	1,134,750	15.2
70–71.	0.022648	72,893	1,651	72,068	1,061,083	14.6
71–72.	0.024846	71,242	1,770	70,357	989,015	13.9
72–73.	0.027215	69,472	1,891	68,527	918,658	13.2
73–74.	0.029615	67,582	2,001	66,581	850,131	12.6
74–75.	0.032243	65,580	2,115	64,523	783,550	11.9
75–76.	0.035199	63,466	2,234	62,349	719,028	11.3
76–77.	0.038526	61,232	2,359	60,052	656,679	10.7
77–78.	0.042119	58,873	2,480	57,633	596,627	10.1
78–79.	0.046121	56,393	2,601	55,093	538,994	9.6
79–80.	0.051053	53,792	2,746	52,419	483,901	9.0
80–81.	0.056394	51,046	2,879	49,606	431,483	8.5
81–82.	0.062065	48,167	2,989	46,672	381,876	7.9
82–83.	0.068695	45,178	3,103	43,626	335,204	7.4
83–84.	0.076511	42,074	3,219	40,465	291,578	6.9
84–85.	0.084861	38,855	3,297	37,206	251,113	6.5
85–86.	0.094890	35,558	3,374	33,871	213,907	6.0
86–87.	0.105979	32,184	3,411	30,478	180,036	5.6
87–88.	0.118097	28,773	3,398	27,074	149,558	5.2
88–89.	0.131275	25,375	3,331	23,709	122,484	4.8
89–90.	0.145535	22,044	3,208	20,440	98,774	4.5
90–91.	0.160877	18,836	3,030	17,321	78,335	4.2
91–92.	0.177287	15,805	2,802	14,404	61,014	3.9
92–93.	0.194726	13,003	2,532	11,737	46,610	3.6
93–94.	0.213134	10,471	2,232	9,355	34,872	3.3
94–95.	0.232425	8,239	1,915	7,282	25,517	3.1
95–96.	0.252490	6,324	1,597	5,526	18,235	2.9
96–97.	0.273197	4,728	1,292	4,082	12,709	2.7
97–98.	0.294395	3,436	1,012	2,930	8,627	2.5
98–99.	0.315917	2,424	766	2,042	5,697	2.3
99–100.	0.337586	1,659	560	1,379	3,655	2.2
100 and over	1.000000	1,099	1,099	2,277	2,277	2.1

SOURCE: NCHS, National Vital Statistics System, Mortality.

Table 3. Life table for females: United States, 2016Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/68_04/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.....	0.005335	100,000	534	99,532	8,112,605	81.1
1-2.....	0.000359	99,466	36	99,449	8,013,073	80.6
2-3.....	0.000243	99,431	24	99,419	7,913,625	79.6
3-4.....	0.000164	99,407	16	99,398	7,814,206	78.6
4-5.....	0.000151	99,390	15	99,383	7,714,807	77.6
5-6.....	0.000135	99,375	13	99,369	7,615,425	76.6
6-7.....	0.000120	99,362	12	99,356	7,516,056	75.6
7-8.....	0.000108	99,350	11	99,345	7,416,700	74.7
8-9.....	0.000100	99,339	10	99,334	7,317,355	73.7
9-10.....	0.000094	99,329	9	99,325	7,218,021	72.7
10-11.....	0.000092	99,320	9	99,315	7,118,696	71.7
11-12.....	0.000098	99,311	10	99,306	7,019,381	70.7
12-13.....	0.000113	99,301	11	99,295	6,920,075	69.7
13-14.....	0.000140	99,290	14	99,283	6,820,780	68.7
14-15.....	0.000175	99,276	17	99,267	6,721,497	67.7
15-16.....	0.000216	99,259	21	99,248	6,622,229	66.7
16-17.....	0.000257	99,237	26	99,224	6,522,981	65.7
17-18.....	0.000300	99,212	30	99,197	6,423,757	64.7
18-19.....	0.000342	99,182	34	99,165	6,324,560	63.8
19-20.....	0.000382	99,148	38	99,129	6,225,395	62.8
20-21.....	0.000424	99,110	42	99,089	6,126,266	61.8
21-22.....	0.000467	99,068	46	99,045	6,027,177	60.8
22-23.....	0.000505	99,022	50	98,997	5,928,132	59.9
23-24.....	0.000539	98,972	53	98,945	5,829,135	58.9
24-25.....	0.000569	98,919	56	98,890	5,730,190	57.9
25-26.....	0.000598	98,862	59	98,833	5,631,299	57.0
26-27.....	0.000629	98,803	62	98,772	5,532,467	56.0
27-28.....	0.000664	98,741	66	98,708	5,433,695	55.0
28-29.....	0.000705	98,675	70	98,641	5,334,986	54.1
29-30.....	0.000752	98,606	74	98,569	5,236,346	53.1
30-31.....	0.000803	98,532	79	98,492	5,137,777	52.1
31-32.....	0.000855	98,453	84	98,410	5,039,285	51.2
32-33.....	0.000909	98,368	89	98,324	4,940,875	50.2
33-34.....	0.000961	98,279	94	98,232	4,842,551	49.3
34-35.....	0.001013	98,185	99	98,135	4,744,319	48.3
35-36.....	0.001072	98,085	105	98,033	4,646,184	47.4
36-37.....	0.001138	97,980	111	97,924	4,548,152	46.4
37-38.....	0.001201	97,869	118	97,810	4,450,228	45.5
38-39.....	0.001262	97,751	123	97,689	4,352,418	44.5
39-40.....	0.001326	97,628	129	97,563	4,254,729	43.6
40-41.....	0.001401	97,498	137	97,430	4,157,166	42.6
41-42.....	0.001494	97,362	145	97,289	4,059,736	41.7
42-43.....	0.001605	97,216	156	97,138	3,962,447	40.8
43-44.....	0.001733	97,060	168	96,976	3,865,309	39.8
44-45.....	0.001877	96,892	182	96,801	3,768,333	38.9
45-46.....	0.002028	96,710	196	96,612	3,671,532	38.0
46-47.....	0.002196	96,514	212	96,408	3,574,921	37.0
47-48.....	0.002396	96,302	231	96,186	3,478,513	36.1
48-49.....	0.002636	96,071	253	95,944	3,382,326	35.2
49-50.....	0.002909	95,818	279	95,678	3,286,382	34.3
50-51.....	0.003195	95,539	305	95,386	3,190,704	33.4
51-52.....	0.003490	95,234	332	95,068	3,095,317	32.5
52-53.....	0.003805	94,901	361	94,721	3,000,249	31.6
53-54.....	0.004139	94,540	391	94,345	2,905,528	30.7
54-55.....	0.004487	94,149	422	93,938	2,811,184	29.9
55-56.....	0.004852	93,727	455	93,499	2,717,246	29.0
56-57.....	0.005226	93,272	487	93,028	2,623,747	28.1
57-58.....	0.005602	92,784	520	92,525	2,530,718	27.3
58-59.....	0.005986	92,265	552	91,989	2,438,194	26.4
59-60.....	0.006393	91,712	586	91,419	2,346,205	25.6
60-61.....	0.006832	91,126	623	90,815	2,254,786	24.7

Table 3. Life table for females: United States, 2016—Con.Spreadsheet version available from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/68_04/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
61–62.....	0.007320	90,504	662	90,172	2,163,971	23.9
62–63.....	0.007865	89,841	707	89,488	2,073,799	23.1
63–64.....	0.008466	89,134	755	88,757	1,984,311	22.3
64–65.....	0.009115	88,380	806	87,977	1,895,554	21.4
65–66.....	0.009805	87,574	859	87,145	1,807,577	20.6
66–67.....	0.010549	86,716	915	86,258	1,720,432	19.8
67–68.....	0.011398	85,801	978	85,312	1,634,174	19.0
68–69.....	0.012394	84,823	1,051	84,297	1,548,862	18.3
69–70.....	0.013567	83,772	1,136	83,203	1,464,565	17.5
70–71.....	0.015021	82,635	1,241	82,014	1,381,361	16.7
71–72.....	0.016708	81,394	1,360	80,714	1,299,347	16.0
72–73.....	0.018534	80,034	1,483	79,292	1,218,633	15.2
73–74.....	0.020398	78,551	1,602	77,749	1,139,341	14.5
74–75.....	0.022323	76,948	1,718	76,089	1,061,592	13.8
75–76.....	0.024476	75,231	1,841	74,310	985,502	13.1
76–77.....	0.026979	73,389	1,980	72,399	911,192	12.4
77–78.....	0.029866	71,409	2,133	70,343	838,793	11.7
78–79.....	0.033072	69,277	2,291	68,131	768,450	11.1
79–80.....	0.036957	66,985	2,476	65,748	700,319	10.5
80–81.....	0.041402	64,510	2,671	63,174	634,571	9.8
81–82.....	0.046139	61,839	2,853	60,413	571,397	9.2
82–83.....	0.051607	58,986	3,044	57,464	510,984	8.7
83–84.....	0.057763	55,942	3,231	54,326	453,520	8.1
84–85.....	0.064739	52,710	3,412	51,004	399,194	7.6
85–86.....	0.072132	49,298	3,556	47,520	348,190	7.1
86–87.....	0.081230	45,742	3,716	43,884	300,670	6.6
87–88.....	0.091298	42,026	3,837	40,108	256,786	6.1
88–89.....	0.102397	38,189	3,910	36,234	216,678	5.7
89–90.....	0.114575	34,279	3,928	32,315	180,444	5.3
90–91.....	0.127875	30,351	3,881	28,411	148,128	4.9
91–92.....	0.142319	26,470	3,767	24,587	119,718	4.5
92–93.....	0.157918	22,703	3,585	20,910	95,131	4.2
93–94.....	0.174656	19,118	3,339	17,448	74,220	3.9
94–95.....	0.192497	15,779	3,037	14,260	56,772	3.6
95–96.....	0.211378	12,741	2,693	11,395	42,512	3.3
96–97.....	0.231207	10,048	2,323	8,887	31,117	3.1
97–98.....	0.251868	7,725	1,946	6,752	22,231	2.9
98–99.....	0.273217	5,779	1,579	4,990	15,479	2.7
99–100.....	0.295088	4,200	1,239	3,581	10,489	2.5
100 and over.....	1.000000	2,961	2,961	6,908	6,908	2.3

SOURCE: NCHS, National Vital Statistics System, Mortality.