

Spreadsheet version available from: [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/62\\_07/](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/62_07/)**Table 1. Life table for the total population: United States, 2009**

Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.006372	100,000	637	99,444	7,851,473	78.5
1-2	0.000429	99,363	43	99,341	7,752,029	78.0
2-3	0.000288	99,320	29	99,306	7,652,687	77.1
3-4	0.000219	99,292	22	99,281	7,553,381	76.1
4-5	0.000168	99,270	17	99,261	7,454,101	75.1
5-6	0.000156	99,253	15	99,245	7,354,839	74.1
6-7	0.000139	99,238	14	99,231	7,255,594	73.1
7-8	0.000125	99,224	12	99,218	7,156,363	72.1
8-9	0.000110	99,211	11	99,206	7,057,146	71.1
9-10	0.000095	99,200	9	99,196	6,957,940	70.1
10-11	0.000085	99,191	8	99,187	6,858,744	69.1
11-12	0.000091	99,183	9	99,178	6,759,557	68.2
12-13	0.000122	99,174	12	99,167	6,660,379	67.2
13-14	0.000185	99,161	18	99,152	6,561,212	66.2
14-15	0.000268	99,143	27	99,130	6,462,059	65.2
15-16	0.000355	99,117	35	99,099	6,362,930	64.2
16-17	0.000438	99,081	43	99,060	6,263,831	63.2
17-18	0.000520	99,038	51	99,012	6,164,771	62.2
18-19	0.000600	98,986	59	98,957	6,065,759	61.3
19-20	0.000679	98,927	67	98,894	5,966,802	60.3
20-21	0.000765	98,860	76	98,822	5,867,909	59.4
21-22	0.000848	98,784	84	98,742	5,769,086	58.4
22-23	0.000911	98,701	90	98,656	5,670,344	57.4
23-24	0.000944	98,611	93	98,564	5,571,688	56.5
24-25	0.000953	98,518	94	98,471	5,473,124	55.6
25-26	0.000956	98,424	94	98,377	5,374,654	54.6
26-27	0.000963	98,330	95	98,282	5,276,277	53.7
27-28	0.000972	98,235	96	98,187	5,177,995	52.7
28-29	0.000988	98,139	97	98,091	5,079,807	51.8
29-30	0.001010	98,043	99	97,993	4,981,716	50.8
30-31	0.001038	97,943	102	97,893	4,883,724	49.9
31-32	0.001070	97,842	105	97,789	4,785,831	48.9
32-33	0.001111	97,737	109	97,683	4,688,041	48.0
33-34	0.001152	97,629	112	97,572	4,590,359	47.0
34-35	0.001202	97,516	117	97,457	4,492,786	46.1
35-36	0.001262	97,399	123	97,337	4,395,329	45.1
36-37	0.001335	97,276	130	97,211	4,297,991	44.2
37-38	0.001421	97,146	138	97,077	4,200,780	43.2
38-39	0.001522	97,008	148	96,934	4,103,703	42.3
39-40	0.001643	96,860	159	96,781	4,006,769	41.4

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001778	96,701	172	96,615	3,909,988	40.4
41-42	0.001933	96,529	187	96,436	3,813,373	39.5
42-43	0.002118	96,343	204	96,241	3,716,937	38.6
43-44	0.002332	96,139	224	96,027	3,620,696	37.7
44-45	0.002564	95,915	246	95,792	3,524,670	36.7
45-46	0.002796	95,669	267	95,535	3,428,878	35.8
46-47	0.003034	95,401	289	95,256	3,333,343	34.9
47-48	0.003297	95,112	314	94,955	3,238,087	34.0
48-49	0.003600	94,798	341	94,627	3,143,132	33.2
49-50	0.003938	94,457	372	94,271	3,048,505	32.3
50-51	0.004306	94,085	405	93,882	2,954,234	31.4
51-52	0.004682	93,680	439	93,460	2,860,351	30.5
52-53	0.005058	93,241	472	93,005	2,766,891	29.7
53-54	0.005424	92,770	503	92,518	2,673,886	28.8
54-55	0.005794	92,266	535	91,999	2,581,368	28.0
55-56	0.006186	91,732	567	91,448	2,489,369	27.1
56-57	0.006622	91,164	604	90,862	2,397,921	26.3
57-58	0.007102	90,561	643	90,239	2,307,058	25.5
58-59	0.007630	89,917	686	89,574	2,216,819	24.7
59-60	0.008205	89,231	732	88,865	2,127,245	23.8
60-61	0.008826	88,499	781	88,109	2,038,380	23.0
61-62	0.009495	87,718	833	87,302	1,950,271	22.2
62-63	0.010217	86,885	888	86,441	1,862,969	21.4
63-64	0.011010	85,997	947	85,524	1,776,528	20.7
64-65	0.011896	85,051	1,012	84,545	1,691,004	19.9
65-66	0.012923	84,039	1,086	83,496	1,606,459	19.1
66-67	0.014095	82,953	1,169	82,368	1,522,963	18.4
67-68	0.015356	81,784	1,256	81,156	1,440,595	17.6
68-69	0.016682	80,528	1,343	79,856	1,359,439	16.9
69-70	0.018072	79,184	1,431	78,469	1,279,583	16.2
70-71	0.019630	77,753	1,526	76,990	1,201,114	15.4
71-72	0.021430	76,227	1,634	75,410	1,124,124	14.7
72-73	0.023431	74,594	1,748	73,720	1,048,714	14.1
73-74	0.025763	72,846	1,877	71,907	974,994	13.4
74-75	0.028364	70,969	2,013	69,963	903,087	12.7
75-76	0.031060	68,956	2,142	67,885	833,124	12.1
76-77	0.034041	66,814	2,274	65,677	765,239	11.5
77-78	0.037491	64,540	2,420	63,330	699,562	10.8
78-79	0.041456	62,120	2,575	60,833	636,232	10.2
79-80	0.045793	59,545	2,727	58,182	575,400	9.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050433	56,818	2,866	55,385	517,218	9.1
81-82	0.055465	53,953	2,992	52,456	461,833	8.6
82-83	0.061442	50,960	3,131	49,395	409,376	8.0
83-84	0.068173	47,829	3,261	46,199	359,982	7.5
84-85	0.075594	44,568	3,369	42,884	313,783	7.0
85-86	0.085081	41,199	3,505	39,447	270,899	6.6
86-87	0.094567	37,694	3,565	35,912	231,452	6.1
87-88	0.104921	34,129	3,581	32,339	195,541	5.7
88-89	0.116177	30,549	3,549	28,774	163,202	5.3
89-90	0.128366	26,999	3,466	25,267	134,428	5.0
90-91	0.141504	23,534	3,330	21,869	109,161	4.6
91-92	0.155599	20,204	3,144	18,632	87,293	4.3
92-93	0.170641	17,060	2,911	15,604	68,661	4.0
93-94	0.186606	14,149	2,640	12,829	53,056	3.7
94-95	0.203453	11,509	2,341	10,338	40,228	3.5
95-96	0.221119	9,167	2,027	8,154	29,890	3.3
96-97	0.239527	7,140	1,710	6,285	21,736	3.0
97-98	0.258577	5,430	1,404	4,728	15,451	2.8
98-99	0.278157	4,026	1,120	3,466	10,724	2.7
99-100	0.298135	2,906	866	2,473	7,258	2.5
100 and over	1.000000	2,040	2,040	4,785	4,785	2.3

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.006989	100,000	699	99,391	7,601,417	76.0
1-2	0.000467	99,301	46	99,278	7,502,027	75.5
2-3	0.000319	99,255	32	99,239	7,402,749	74.6
3-4	0.000244	99,223	24	99,211	7,303,510	73.6
4-5	0.000182	99,199	18	99,190	7,204,299	72.6
5-6	0.000171	99,181	17	99,172	7,105,109	71.6
6-7	0.000154	99,164	15	99,156	7,005,937	70.7
7-8	0.000138	99,149	14	99,142	6,906,781	69.7
8-9	0.000119	99,135	12	99,129	6,807,639	68.7
9-10	0.000096	99,123	10	99,118	6,708,510	67.7
10-11	0.000081	99,113	8	99,109	6,609,392	66.7
11-12	0.000087	99,105	9	99,101	6,510,282	65.7
12-13	0.000131	99,097	13	99,090	6,411,181	64.7
13-14	0.000222	99,084	22	99,073	6,312,091	63.7
14-15	0.000345	99,062	34	99,045	6,213,018	62.7
15-16	0.000471	99,028	47	99,004	6,113,973	61.7
16-17	0.000591	98,981	58	98,952	6,014,969	60.8
17-18	0.000713	98,923	71	98,887	5,916,017	59.8
18-19	0.000840	98,852	83	98,811	5,817,130	58.8
19-20	0.000969	98,769	96	98,721	5,718,319	57.9
20-21	0.001111	98,673	110	98,618	5,619,598	57.0
21-22	0.001246	98,564	123	98,502	5,520,980	56.0
22-23	0.001344	98,441	132	98,375	5,422,477	55.1
23-24	0.001386	98,309	136	98,240	5,324,103	54.2
24-25	0.001386	98,172	136	98,104	5,225,862	53.2
25-26	0.001372	98,036	135	97,969	5,127,758	52.3
26-27	0.001366	97,902	134	97,835	5,029,789	51.4
27-28	0.001363	97,768	133	97,701	4,931,954	50.4
28-29	0.001372	97,635	134	97,568	4,834,253	49.5
29-30	0.001391	97,501	136	97,433	4,736,685	48.6
30-31	0.001415	97,365	138	97,296	4,639,252	47.6
31-32	0.001442	97,227	140	97,157	4,541,956	46.7
32-33	0.001483	97,087	144	97,015	4,444,798	45.8
33-34	0.001520	96,943	147	96,870	4,347,783	44.8
34-35	0.001573	96,796	152	96,720	4,250,913	43.9
35-36	0.001640	96,644	158	96,564	4,154,193	43.0
36-37	0.001721	96,485	166	96,402	4,057,629	42.1
37-38	0.001818	96,319	175	96,232	3,961,227	41.1
38-39	0.001932	96,144	186	96,051	3,864,995	40.2
39-40	0.002068	95,958	198	95,859	3,768,944	39.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002223	95,760	213	95,653	3,673,085	38.4
41-42	0.002404	95,547	230	95,432	3,577,432	37.4
42-43	0.002621	95,317	250	95,192	3,482,000	36.5
43-44	0.002872	95,067	273	94,931	3,386,807	35.6
44-45	0.003148	94,794	298	94,645	3,291,876	34.7
45-46	0.003425	94,496	324	94,334	3,197,231	33.8
46-47	0.003713	94,172	350	93,998	3,102,897	32.9
47-48	0.004042	93,823	379	93,633	3,008,899	32.1
48-49	0.004432	93,444	414	93,237	2,915,266	31.2
49-50	0.004875	93,029	454	92,803	2,822,029	30.3
50-51	0.005356	92,576	496	92,328	2,729,227	29.5
51-52	0.005847	92,080	538	91,811	2,636,899	28.6
52-53	0.006345	91,542	581	91,251	2,545,088	27.8
53-54	0.006842	90,961	622	90,650	2,453,837	27.0
54-55	0.007349	90,338	664	90,006	2,363,187	26.2
55-56	0.007895	89,674	708	89,320	2,273,181	25.3
56-57	0.008489	88,967	755	88,589	2,183,860	24.5
57-58	0.009110	88,211	804	87,809	2,095,271	23.8
58-59	0.009748	87,408	852	86,982	2,007,462	23.0
59-60	0.010407	86,556	901	86,105	1,920,480	22.2
60-61	0.011101	85,655	951	85,179	1,834,375	21.4
61-62	0.011853	84,704	1,004	84,202	1,749,196	20.7
62-63	0.012679	83,700	1,061	83,169	1,664,994	19.9
63-64	0.013615	82,639	1,125	82,076	1,581,825	19.1
64-65	0.014687	81,514	1,197	80,915	1,499,748	18.4
65-66	0.015932	80,316	1,280	79,677	1,418,833	17.7
66-67	0.017342	79,037	1,371	78,351	1,339,157	16.9
67-68	0.018846	77,666	1,464	76,934	1,260,806	16.2
68-69	0.020408	76,202	1,555	75,425	1,183,871	15.5
69-70	0.022024	74,647	1,644	73,825	1,108,447	14.8
70-71	0.023814	73,003	1,739	72,134	1,034,621	14.2
71-72	0.025864	71,265	1,843	70,343	962,487	13.5
72-73	0.028196	69,421	1,957	68,443	892,144	12.9
73-74	0.030982	67,464	2,090	66,419	823,702	12.2
74-75	0.034052	65,374	2,226	64,261	757,283	11.6
75-76	0.037259	63,148	2,353	61,971	693,022	11.0
76-77	0.040853	60,795	2,484	59,553	631,050	10.4
77-78	0.045036	58,311	2,626	56,998	571,497	9.8
78-79	0.049777	55,685	2,772	54,299	514,499	9.2
79-80	0.054907	52,913	2,905	51,461	460,200	8.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.060579	50,008	3,029	48,493	408,739	8.2
81-82	0.066699	46,979	3,133	45,412	360,246	7.7
82-83	0.073714	43,845	3,232	42,229	314,834	7.2
83-84	0.081473	40,613	3,309	38,959	272,604	6.7
84-85	0.091562	37,304	3,416	35,596	233,646	6.3
85-86	0.101692	33,889	3,446	32,166	198,049	5.8
86-87	0.112722	30,442	3,432	28,727	165,884	5.4
87-88	0.124686	27,011	3,368	25,327	137,157	5.1
88-89	0.137603	23,643	3,253	22,016	111,830	4.7
89-90	0.151485	20,390	3,089	18,845	89,814	4.4
90-91	0.166326	17,301	2,878	15,862	70,969	4.1
91-92	0.182108	14,423	2,627	13,110	55,106	3.8
92-93	0.198793	11,797	2,345	10,624	41,996	3.6
93-94	0.216323	9,452	2,045	8,429	31,372	3.3
94-95	0.234625	7,407	1,738	6,538	22,943	3.1
95-96	0.253602	5,669	1,438	4,950	16,405	2.9
96-97	0.273145	4,231	1,156	3,654	11,454	2.7
97-98	0.293124	3,076	902	2,625	7,801	2.5
98-99	0.313401	2,174	681	1,833	5,176	2.4
99-100	0.333827	1,493	498	1,244	3,343	2.2
100 and over	1.000000	994	994	2,099	2,099	2.1

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005726	100,000	573	99,500	8,092,000	80.9
1-2	0.000390	99,427	39	99,408	7,992,500	80.4
2-3	0.000255	99,389	25	99,376	7,893,092	79.4
3-4	0.000193	99,363	19	99,354	7,793,716	78.4
4-5	0.000153	99,344	15	99,336	7,694,362	77.5
5-6	0.000140	99,329	14	99,322	7,595,026	76.5
6-7	0.000123	99,315	12	99,309	7,495,704	75.5
7-8	0.000111	99,303	11	99,297	7,396,395	74.5
8-9	0.000102	99,292	10	99,287	7,297,098	73.5
9-10	0.000094	99,282	9	99,277	7,197,811	72.5
10-11	0.000090	99,272	9	99,268	7,098,534	71.5
11-12	0.000095	99,263	9	99,259	6,999,267	70.5
12-13	0.000113	99,254	11	99,248	6,900,008	69.5
13-14	0.000145	99,243	14	99,235	6,800,760	68.5
14-15	0.000187	99,228	19	99,219	6,701,524	67.5
15-16	0.000233	99,210	23	99,198	6,602,305	66.5
16-17	0.000277	99,187	27	99,173	6,503,107	65.6
17-18	0.000316	99,159	31	99,143	6,403,935	64.6
18-19	0.000347	99,128	34	99,111	6,304,791	63.6
19-20	0.000373	99,093	37	99,075	6,205,681	62.6
20-21	0.000400	99,056	40	99,037	6,106,606	61.6
21-22	0.000430	99,017	43	98,995	6,007,569	60.7
22-23	0.000458	98,974	45	98,952	5,908,574	59.7
23-24	0.000483	98,929	48	98,905	5,809,622	58.7
24-25	0.000506	98,881	50	98,856	5,710,717	57.8
25-26	0.000529	98,831	52	98,805	5,611,861	56.8
26-27	0.000553	98,779	55	98,752	5,513,056	55.8
27-28	0.000577	98,724	57	98,696	5,414,305	54.8
28-29	0.000601	98,667	59	98,638	5,315,609	53.9
29-30	0.000627	98,608	62	98,577	5,216,971	52.9
30-31	0.000658	98,546	65	98,514	5,118,394	51.9
31-32	0.000696	98,481	69	98,447	5,019,881	51.0
32-33	0.000738	98,413	73	98,376	4,921,434	50.0
33-34	0.000782	98,340	77	98,302	4,823,057	49.0
34-35	0.000831	98,263	82	98,222	4,724,755	48.1
35-36	0.000886	98,182	87	98,138	4,626,533	47.1
36-37	0.000952	98,095	93	98,048	4,528,395	46.2
37-38	0.001027	98,001	101	97,951	4,430,347	45.2
38-39	0.001116	97,901	109	97,846	4,332,396	44.3
39-40	0.001222	97,791	119	97,732	4,234,550	43.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001336	97,672	131	97,607	4,136,819	42.4
41-42	0.001465	97,541	143	97,470	4,039,212	41.4
42-43	0.001620	97,398	158	97,319	3,941,742	40.5
43-44	0.001798	97,241	175	97,153	3,844,423	39.5
44-45	0.001989	97,066	193	96,969	3,747,270	38.6
45-46	0.002179	96,873	211	96,767	3,650,301	37.7
46-47	0.002370	96,662	229	96,547	3,553,534	36.8
47-48	0.002571	96,433	248	96,309	3,456,986	35.8
48-49	0.002790	96,185	268	96,050	3,360,678	34.9
49-50	0.003028	95,916	290	95,771	3,264,627	34.0
50-51	0.003289	95,626	314	95,469	3,168,856	33.1
51-52	0.003557	95,311	339	95,142	3,073,388	32.2
52-53	0.003819	94,972	363	94,791	2,978,246	31.4
53-54	0.004065	94,610	385	94,417	2,883,455	30.5
54-55	0.004309	94,225	406	94,022	2,789,038	29.6
55-56	0.004566	93,819	428	93,605	2,695,016	28.7
56-57	0.004861	93,391	454	93,164	2,601,411	27.9
57-58	0.005216	92,937	485	92,694	2,508,247	27.0
58-59	0.005648	92,452	522	92,191	2,415,553	26.1
59-60	0.006148	91,930	565	91,647	2,323,362	25.3
60-61	0.006705	91,365	613	91,058	2,231,715	24.4
61-62	0.007302	90,752	663	90,421	2,140,657	23.6
62-63	0.007936	90,089	715	89,732	2,050,236	22.8
63-64	0.008608	89,374	769	88,990	1,960,505	21.9
64-65	0.009343	88,605	828	88,191	1,871,515	21.1
65-66	0.010196	87,777	895	87,330	1,783,324	20.3
66-67	0.011180	86,882	971	86,396	1,695,995	19.5
67-68	0.012251	85,911	1,052	85,385	1,609,598	18.7
68-69	0.013393	84,858	1,137	84,290	1,524,214	18.0
69-70	0.014610	83,722	1,223	83,110	1,439,923	17.2
70-71	0.015996	82,499	1,320	81,839	1,356,813	16.4
71-72	0.017617	81,179	1,430	80,464	1,274,975	15.7
72-73	0.019384	79,749	1,546	78,976	1,194,511	15.0
73-74	0.021398	78,203	1,673	77,366	1,115,535	14.3
74-75	0.023685	76,530	1,813	75,623	1,038,168	13.6
75-76	0.026050	74,717	1,946	73,744	962,545	12.9
76-77	0.028644	72,771	2,084	71,728	888,801	12.2
77-78	0.031641	70,686	2,237	69,568	817,073	11.6
78-79	0.035158	68,450	2,407	67,246	747,505	10.9
79-80	0.039092	66,043	2,582	64,752	680,259	10.3

Source: CDC/NCHS, National Vital Statistics System, Mortality



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.043211	63,461	2,742	62,090	615,507	9.7
81-82	0.047720	60,719	2,897	59,270	553,416	9.1
82-83	0.053268	57,822	3,080	56,282	494,146	8.5
83-84	0.059665	54,742	3,266	53,108	437,865	8.0
84-85	0.066710	51,475	3,434	49,758	384,756	7.5
85-86	0.075444	48,041	3,624	46,229	334,998	7.0
86-87	0.084485	44,417	3,753	42,541	288,769	6.5
87-88	0.094437	40,664	3,840	38,744	246,228	6.1
88-89	0.105348	36,824	3,879	34,885	207,484	5.6
89-90	0.117262	32,945	3,863	31,013	172,599	5.2
90-91	0.130211	29,082	3,787	27,188	141,586	4.9
91-92	0.144215	25,295	3,648	23,471	114,398	4.5
92-93	0.159277	21,647	3,448	19,923	90,927	4.2
93-94	0.175384	18,199	3,192	16,603	71,004	3.9
94-95	0.192503	15,007	2,889	13,563	54,400	3.6
95-96	0.210576	12,118	2,552	10,842	40,838	3.4
96-97	0.229524	9,567	2,196	8,469	29,995	3.1
97-98	0.249246	7,371	1,837	6,452	21,527	2.9
98-99	0.269617	5,534	1,492	4,788	15,074	2.7
99-100	0.290494	4,042	1,174	3,455	10,287	2.5
100 and over	1.000000	2,868	2,868	6,832	6,832	2.4

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005279	100,000	528	99,540	7,883,517	78.8
1-2	0.000397	99,472	40	99,452	7,783,977	78.3
2-3	0.000268	99,433	27	99,419	7,684,525	77.3
3-4	0.000207	99,406	21	99,396	7,585,106	76.3
4-5	0.000157	99,385	16	99,378	7,485,710	75.3
5-6	0.000144	99,370	14	99,363	7,386,333	74.3
6-7	0.000128	99,356	13	99,349	7,286,970	73.3
7-8	0.000115	99,343	11	99,337	7,187,621	72.4
8-9	0.000101	99,331	10	99,326	7,088,284	71.4
9-10	0.000087	99,321	9	99,317	6,988,957	70.4
10-11	0.000078	99,313	8	99,309	6,889,640	69.4
11-12	0.000083	99,305	8	99,301	6,790,331	68.4
12-13	0.000114	99,297	11	99,291	6,691,030	67.4
13-14	0.000174	99,286	17	99,277	6,591,739	66.4
14-15	0.000255	99,268	25	99,256	6,492,462	65.4
15-16	0.000340	99,243	34	99,226	6,393,206	64.4
16-17	0.000421	99,209	42	99,188	6,293,980	63.4
17-18	0.000500	99,168	50	99,143	6,194,791	62.5
18-19	0.000577	99,118	57	99,089	6,095,648	61.5
19-20	0.000651	99,061	65	99,029	5,996,559	60.5
20-21	0.000731	98,996	72	98,960	5,897,530	59.6
21-22	0.000808	98,924	80	98,884	5,798,570	58.6
22-23	0.000866	98,844	86	98,801	5,699,686	57.7
23-24	0.000897	98,758	89	98,714	5,600,885	56.7
24-25	0.000907	98,670	90	98,625	5,502,171	55.8
25-26	0.000912	98,580	90	98,535	5,403,546	54.8
26-27	0.000920	98,490	91	98,445	5,305,011	53.9
27-28	0.000930	98,400	92	98,354	5,206,566	52.9
28-29	0.000946	98,308	93	98,262	5,108,212	52.0
29-30	0.000969	98,215	95	98,168	5,009,951	51.0
30-31	0.000997	98,120	98	98,071	4,911,783	50.1
31-32	0.001030	98,022	101	97,972	4,813,712	49.1
32-33	0.001068	97,921	105	97,869	4,715,740	48.2
33-34	0.001107	97,817	108	97,763	4,617,871	47.2
34-35	0.001153	97,708	113	97,652	4,520,109	46.3
35-36	0.001208	97,596	118	97,537	4,422,457	45.3
36-37	0.001277	97,478	124	97,416	4,324,920	44.4
37-38	0.001358	97,353	132	97,287	4,227,505	43.4
38-39	0.001455	97,221	142	97,150	4,130,217	42.5
39-40	0.001572	97,080	153	97,003	4,033,067	41.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001701	96,927	165	96,845	3,936,063	40.6
41-42	0.001850	96,762	179	96,673	3,839,219	39.7
42-43	0.002030	96,583	196	96,485	3,742,546	38.7
43-44	0.002240	96,387	216	96,279	3,646,061	37.8
44-45	0.002469	96,171	237	96,052	3,549,782	36.9
45-46	0.002698	95,934	259	95,804	3,453,729	36.0
46-47	0.002929	95,675	280	95,535	3,357,925	35.1
47-48	0.003182	95,395	304	95,243	3,262,390	34.2
48-49	0.003467	95,091	330	94,926	3,167,147	33.3
49-50	0.003783	94,761	359	94,582	3,072,221	32.4
50-51	0.004128	94,403	390	94,208	2,977,639	31.5
51-52	0.004483	94,013	421	93,802	2,883,431	30.7
52-53	0.004834	93,592	452	93,366	2,789,628	29.8
53-54	0.005173	93,139	482	92,898	2,696,263	28.9
54-55	0.005513	92,658	511	92,402	2,603,364	28.1
55-56	0.005873	92,147	541	91,876	2,510,962	27.2
56-57	0.006278	91,606	575	91,318	2,419,086	26.4
57-58	0.006738	91,030	613	90,724	2,327,768	25.6
58-59	0.007263	90,417	657	90,089	2,237,044	24.7
59-60	0.007843	89,760	704	89,408	2,146,956	23.9
60-61	0.008474	89,056	755	88,679	2,057,547	23.1
61-62	0.009146	88,302	808	87,898	1,968,868	22.3
62-63	0.009868	87,494	863	87,062	1,880,970	21.5
63-64	0.010655	86,631	923	86,169	1,793,908	20.7
64-65	0.011536	85,708	989	85,213	1,707,739	19.9
65-66	0.012561	84,719	1,064	84,187	1,622,526	19.2
66-67	0.013733	83,655	1,149	83,080	1,538,339	18.4
67-68	0.014995	82,506	1,237	81,887	1,455,259	17.6
68-69	0.016319	81,269	1,326	80,606	1,373,371	16.9
69-70	0.017711	79,942	1,416	79,234	1,292,766	16.2
70-71	0.019290	78,527	1,515	77,769	1,213,531	15.5
71-72	0.021111	77,012	1,626	76,199	1,135,762	14.7
72-73	0.023143	75,386	1,745	74,514	1,059,563	14.1
73-74	0.025501	73,641	1,878	72,702	985,050	13.4
74-75	0.028111	71,763	2,017	70,755	912,347	12.7
75-76	0.030790	69,746	2,147	68,672	841,593	12.1
76-77	0.033776	67,599	2,283	66,457	772,920	11.4
77-78	0.037304	65,315	2,437	64,097	706,463	10.8
78-79	0.041314	62,879	2,598	61,580	642,366	10.2
79-80	0.045645	60,281	2,752	58,905	580,786	9.6

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050360	57,530	2,897	56,081	521,881	9.1
81-82	0.055452	54,632	3,029	53,118	465,800	8.5
82-83	0.061414	51,603	3,169	50,018	412,682	8.0
83-84	0.068202	48,434	3,303	46,782	362,664	7.5
84-85	0.075775	45,131	3,420	43,421	315,881	7.0
85-86	0.085181	41,711	3,553	39,934	272,461	6.5
86-87	0.094869	38,158	3,620	36,348	232,526	6.1
87-88	0.105459	34,538	3,642	32,717	196,179	5.7
88-89	0.116989	30,895	3,614	29,088	163,462	5.3
89-90	0.129489	27,281	3,533	25,515	134,374	4.9
90-91	0.142977	23,748	3,395	22,051	108,859	4.6
91-92	0.157459	20,353	3,205	18,751	86,808	4.3
92-93	0.172923	17,148	2,965	15,666	68,058	4.0
93-94	0.189340	14,183	2,685	12,840	52,392	3.7
94-95	0.206664	11,498	2,376	10,309	39,552	3.4
95-96	0.224827	9,121	2,051	8,096	29,242	3.2
96-97	0.243740	7,071	1,723	6,209	21,146	3.0
97-98	0.263296	5,347	1,408	4,643	14,937	2.8
98-99	0.283370	3,939	1,116	3,381	10,294	2.6
99-100	0.303821	2,823	858	2,394	6,913	2.4
100 and over	1.000000	1,965	1,965	4,519	4,519	2.3

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005773	100,000	577	99,498	7,641,052	76.4
1-2	0.000439	99,423	44	99,401	7,541,554	75.9
2-3	0.000292	99,379	29	99,365	7,442,153	74.9
3-4	0.000232	99,350	23	99,339	7,342,789	73.9
4-5	0.000177	99,327	18	99,318	7,243,450	72.9
5-6	0.000160	99,309	16	99,302	7,144,132	71.9
6-7	0.000143	99,294	14	99,286	7,044,830	70.9
7-8	0.000128	99,279	13	99,273	6,945,544	70.0
8-9	0.000109	99,267	11	99,261	6,846,271	69.0
9-10	0.000089	99,256	9	99,251	6,747,009	68.0
10-11	0.000075	99,247	7	99,243	6,647,758	67.0
11-12	0.000081	99,240	8	99,236	6,548,515	66.0
12-13	0.000123	99,232	12	99,225	6,449,279	65.0
13-14	0.000207	99,219	21	99,209	6,350,054	64.0
14-15	0.000321	99,199	32	99,183	6,250,845	63.0
15-16	0.000440	99,167	44	99,145	6,151,662	62.0
16-17	0.000554	99,123	55	99,096	6,052,517	61.1
17-18	0.000671	99,068	66	99,035	5,953,421	60.1
18-19	0.000794	99,002	79	98,963	5,854,385	59.1
19-20	0.000919	98,923	91	98,878	5,755,423	58.2
20-21	0.001054	98,832	104	98,780	5,656,545	57.2
21-22	0.001183	98,728	117	98,670	5,557,765	56.3
22-23	0.001275	98,611	126	98,549	5,459,095	55.4
23-24	0.001315	98,486	130	98,421	5,360,546	54.4
24-25	0.001315	98,356	129	98,292	5,262,125	53.5
25-26	0.001302	98,227	128	98,163	5,163,833	52.6
26-27	0.001297	98,099	127	98,035	5,065,670	51.6
27-28	0.001295	97,972	127	97,908	4,967,635	50.7
28-29	0.001304	97,845	128	97,781	4,869,727	49.8
29-30	0.001324	97,717	129	97,653	4,771,946	48.8
30-31	0.001348	97,588	132	97,522	4,674,293	47.9
31-32	0.001376	97,456	134	97,389	4,576,771	47.0
32-33	0.001414	97,322	138	97,253	4,479,382	46.0
33-34	0.001451	97,185	141	97,114	4,382,128	45.1
34-35	0.001500	97,044	146	96,971	4,285,014	44.2
35-36	0.001563	96,898	151	96,822	4,188,043	43.2
36-37	0.001641	96,747	159	96,667	4,091,221	42.3
37-38	0.001735	96,588	168	96,504	3,994,554	41.4
38-39	0.001846	96,420	178	96,331	3,898,049	40.4
39-40	0.001980	96,242	191	96,147	3,801,718	39.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002130	96,052	205	95,950	3,705,571	38.6
41-42	0.002305	95,847	221	95,737	3,609,622	37.7
42-43	0.002519	95,626	241	95,506	3,513,885	36.7
43-44	0.002772	95,385	264	95,253	3,418,379	35.8
44-45	0.003050	95,121	290	94,976	3,323,126	34.9
45-46	0.003330	94,831	316	94,673	3,228,150	34.0
46-47	0.003615	94,515	342	94,344	3,133,477	33.2
47-48	0.003935	94,173	371	93,988	3,039,133	32.3
48-49	0.004303	93,803	404	93,601	2,945,145	31.4
49-50	0.004718	93,399	441	93,179	2,851,544	30.5
50-51	0.005168	92,958	480	92,718	2,758,365	29.7
51-52	0.005628	92,478	520	92,218	2,665,647	28.8
52-53	0.006090	91,958	560	91,678	2,573,429	28.0
53-54	0.006545	91,398	598	91,098	2,481,751	27.2
54-55	0.007005	90,799	636	90,481	2,390,653	26.3
55-56	0.007496	90,163	676	89,825	2,300,171	25.5
56-57	0.008037	89,487	719	89,128	2,210,346	24.7
57-58	0.008621	88,768	765	88,386	2,121,218	23.9
58-59	0.009245	88,003	814	87,596	2,032,832	23.1
59-60	0.009906	87,189	864	86,758	1,945,236	22.3
60-61	0.010609	86,326	916	85,868	1,858,479	21.5
61-62	0.011363	85,410	971	84,925	1,772,611	20.8
62-63	0.012186	84,439	1,029	83,925	1,687,686	20.0
63-64	0.013111	83,410	1,094	82,864	1,603,762	19.2
64-65	0.014168	82,317	1,166	81,734	1,520,898	18.5
65-66	0.015401	81,151	1,250	80,526	1,439,164	17.7
66-67	0.016803	79,901	1,343	79,229	1,358,639	17.0
67-68	0.018307	78,558	1,438	77,839	1,279,409	16.3
68-69	0.019869	77,120	1,532	76,354	1,201,570	15.6
69-70	0.021492	75,588	1,625	74,775	1,125,217	14.9
70-71	0.023324	73,963	1,725	73,101	1,050,441	14.2
71-72	0.025412	72,238	1,836	71,320	977,341	13.5
72-73	0.027783	70,402	1,956	69,424	906,020	12.9
73-74	0.030594	68,446	2,094	67,399	836,596	12.2
74-75	0.033673	66,352	2,234	65,235	769,197	11.6
75-76	0.036861	64,118	2,363	62,936	703,962	11.0
76-77	0.040412	61,755	2,496	60,507	641,025	10.4
77-78	0.044643	59,259	2,646	57,936	580,519	9.8
78-79	0.049437	56,613	2,799	55,214	522,582	9.2
79-80	0.054567	53,815	2,937	52,346	467,368	8.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.060365	50,878	3,071	49,342	415,022	8.2
81-82	0.066623	47,807	3,185	46,214	365,679	7.6
82-83	0.073633	44,622	3,286	42,979	319,465	7.2
83-84	0.081421	41,336	3,366	39,653	276,486	6.7
84-85	0.090897	37,971	3,451	36,245	236,833	6.2
85-86	0.101288	34,519	3,496	32,771	200,588	5.8
86-87	0.112634	31,023	3,494	29,276	167,817	5.4
87-88	0.124971	27,529	3,440	25,808	138,541	5.0
88-89	0.138321	24,088	3,332	22,422	112,733	4.7
89-90	0.152696	20,756	3,169	19,172	90,311	4.4
90-91	0.168089	17,587	2,956	16,109	71,139	4.0
91-92	0.184477	14,631	2,699	13,281	55,030	3.8
92-93	0.201816	11,932	2,408	10,728	41,749	3.5
93-94	0.220040	9,524	2,096	8,476	31,021	3.3
94-95	0.239065	7,428	1,776	6,540	22,545	3.0
95-96	0.258781	5,652	1,463	4,921	16,005	2.8
96-97	0.279062	4,190	1,169	3,605	11,084	2.6
97-98	0.299764	3,020	905	2,568	7,479	2.5
98-99	0.320731	2,115	678	1,776	4,911	2.3
99-100	0.341799	1,437	491	1,191	3,135	2.2
100 and over	1.000000	946	946	1,944	1,944	2.1

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.004761	100,000	476	99,584	8,119,870	81.2
1-2	0.000354	99,524	35	99,506	8,020,286	80.6
2-3	0.000242	99,489	24	99,477	7,920,780	79.6
3-4	0.000181	99,465	18	99,456	7,821,303	78.6
4-5	0.000136	99,447	14	99,440	7,721,847	77.6
5-6	0.000126	99,433	13	99,427	7,622,407	76.7
6-7	0.000112	99,421	11	99,415	7,522,981	75.7
7-8	0.000101	99,409	10	99,404	7,423,566	74.7
8-9	0.000092	99,399	9	99,395	7,324,161	73.7
9-10	0.000084	99,390	8	99,386	7,224,766	72.7
10-11	0.000080	99,382	8	99,378	7,125,380	71.7
11-12	0.000085	99,374	8	99,370	7,026,002	70.7
12-13	0.000104	99,366	10	99,360	6,926,632	69.7
13-14	0.000139	99,355	14	99,348	6,827,272	68.7
14-15	0.000184	99,341	18	99,332	6,727,924	67.7
15-16	0.000234	99,323	23	99,311	6,628,592	66.7
16-17	0.000281	99,300	28	99,286	6,529,280	65.8
17-18	0.000320	99,272	32	99,256	6,429,994	64.8
18-19	0.000348	99,240	34	99,223	6,330,738	63.8
19-20	0.000368	99,206	36	99,187	6,231,515	62.8
20-21	0.000388	99,169	38	99,150	6,132,328	61.8
21-22	0.000410	99,131	41	99,110	6,033,178	60.9
22-23	0.000433	99,090	43	99,069	5,934,067	59.9
23-24	0.000456	99,047	45	99,025	5,834,999	58.9
24-25	0.000479	99,002	47	98,978	5,735,974	57.9
25-26	0.000503	98,955	50	98,930	5,636,996	57.0
26-27	0.000527	98,905	52	98,879	5,538,066	56.0
27-28	0.000551	98,853	54	98,826	5,439,187	55.0
28-29	0.000575	98,798	57	98,770	5,340,361	54.1
29-30	0.000601	98,742	59	98,712	5,241,591	53.1
30-31	0.000632	98,682	62	98,651	5,142,880	52.1
31-32	0.000670	98,620	66	98,587	5,044,229	51.1
32-33	0.000711	98,554	70	98,519	4,945,642	50.2
33-34	0.000752	98,484	74	98,447	4,847,123	49.2
34-35	0.000795	98,410	78	98,371	4,748,676	48.3
35-36	0.000844	98,331	83	98,290	4,650,306	47.3
36-37	0.000904	98,248	89	98,204	4,552,016	46.3
37-38	0.000974	98,160	96	98,112	4,453,812	45.4
38-39	0.001058	98,064	104	98,012	4,355,700	44.4
39-40	0.001157	97,960	113	97,904	4,257,688	43.5

Source: CDC/NCHS, National Vital Statistics System, Mortality



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001265	97,847	124	97,785	4,159,784	42.5
41-42	0.001387	97,723	136	97,655	4,061,999	41.6
42-43	0.001533	97,588	150	97,513	3,964,343	40.6
43-44	0.001702	97,438	166	97,355	3,866,831	39.7
44-45	0.001883	97,272	183	97,181	3,769,475	38.8
45-46	0.002064	97,089	200	96,989	3,672,295	37.8
46-47	0.002244	96,889	217	96,780	3,575,306	36.9
47-48	0.002433	96,671	235	96,554	3,478,526	36.0
48-49	0.002637	96,436	254	96,309	3,381,973	35.1
49-50	0.002858	96,182	275	96,044	3,285,664	34.2
50-51	0.003102	95,907	297	95,758	3,189,620	33.3
51-52	0.003354	95,609	321	95,449	3,093,861	32.4
52-53	0.003600	95,289	343	95,117	2,998,413	31.5
53-54	0.003830	94,946	364	94,764	2,903,295	30.6
54-55	0.004060	94,582	384	94,390	2,808,532	29.7
55-56	0.004301	94,198	405	93,995	2,714,142	28.8
56-57	0.004583	93,793	430	93,578	2,620,146	27.9
57-58	0.004932	93,363	460	93,133	2,526,569	27.1
58-59	0.005366	92,902	499	92,653	2,433,436	26.2
59-60	0.005875	92,404	543	92,132	2,340,783	25.3
60-61	0.006440	91,861	592	91,565	2,248,650	24.5
61-62	0.007041	91,269	643	90,948	2,157,085	23.6
62-63	0.007675	90,627	696	90,279	2,066,137	22.8
63-64	0.008346	89,931	751	89,556	1,975,858	22.0
64-65	0.009080	89,181	810	88,776	1,886,302	21.2
65-66	0.009937	88,371	878	87,932	1,797,526	20.3
66-67	0.010926	87,493	956	87,015	1,709,595	19.5
67-68	0.011995	86,537	1,038	86,018	1,622,580	18.8
68-69	0.013131	85,499	1,123	84,937	1,536,562	18.0
69-70	0.014344	84,376	1,210	83,771	1,451,625	17.2
70-71	0.015728	83,166	1,308	82,512	1,367,854	16.4
71-72	0.017353	81,858	1,420	81,148	1,285,342	15.7
72-73	0.019142	80,437	1,540	79,667	1,204,194	15.0
73-74	0.021174	78,898	1,671	78,062	1,124,527	14.3
74-75	0.023463	77,227	1,812	76,321	1,046,465	13.6
75-76	0.025802	75,415	1,946	74,442	970,144	12.9
76-77	0.028426	73,469	2,088	72,425	895,701	12.2
77-78	0.031512	71,381	2,249	70,256	823,276	11.5
78-79	0.035057	69,131	2,424	67,920	753,020	10.9
79-80	0.038971	66,708	2,600	65,408	685,101	10.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.043117	64,108	2,764	62,726	619,692	9.7
81-82	0.047627	61,344	2,922	59,883	556,966	9.1
82-83	0.053154	58,422	3,105	56,870	497,083	8.5
83-84	0.059634	55,317	3,299	53,668	440,213	8.0
84-85	0.066842	52,018	3,477	50,280	386,545	7.4
85-86	0.075608	48,541	3,670	46,706	336,266	6.9
86-87	0.084819	44,871	3,806	42,968	289,559	6.5
87-88	0.094973	41,065	3,900	39,115	246,591	6.0
88-89	0.106119	37,165	3,944	35,193	207,476	5.6
89-90	0.118304	33,221	3,930	31,256	172,283	5.2
90-91	0.131559	29,291	3,853	27,364	141,027	4.8
91-92	0.145904	25,438	3,711	23,582	113,662	4.5
92-93	0.161341	21,726	3,505	19,973	90,080	4.1
93-94	0.177854	18,221	3,241	16,600	70,107	3.8
94-95	0.195404	14,980	2,927	13,517	53,507	3.6
95-96	0.213927	12,053	2,578	10,764	39,990	3.3
96-97	0.233337	9,475	2,211	8,369	29,226	3.1
97-98	0.253522	7,264	1,842	6,343	20,857	2.9
98-99	0.274347	5,422	1,488	4,678	14,514	2.7
99-100	0.295659	3,935	1,163	3,353	9,836	2.5
100 and over	1.000000	2,771	2,771	6,483	6,483	2.3

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.012610	100,000	1,261	98,897	7,470,471	74.7
1-2	0.000637	98,739	63	98,708	7,371,575	74.7
2-3	0.000428	98,676	42	98,655	7,272,867	73.7
3-4	0.000301	98,634	30	98,619	7,174,212	72.7
4-5	0.000240	98,604	24	98,592	7,075,593	71.8
5-6	0.000224	98,581	22	98,570	6,977,000	70.8
6-7	0.000199	98,558	20	98,549	6,878,431	69.8
7-8	0.000178	98,539	17	98,530	6,779,882	68.8
8-9	0.000156	98,521	15	98,514	6,681,352	67.8
9-10	0.000136	98,506	13	98,499	6,582,838	66.8
10-11	0.000123	98,493	12	98,487	6,484,339	65.8
11-12	0.000130	98,481	13	98,474	6,385,852	64.8
12-13	0.000172	98,468	17	98,459	6,287,378	63.9
13-14	0.000253	98,451	25	98,438	6,188,919	62.9
14-15	0.000358	98,426	35	98,408	6,090,481	61.9
15-16	0.000465	98,391	46	98,368	5,992,073	60.9
16-17	0.000565	98,345	56	98,317	5,893,705	59.9
17-18	0.000668	98,289	66	98,256	5,795,388	59.0
18-19	0.000779	98,224	77	98,185	5,697,132	58.0
19-20	0.000902	98,147	89	98,103	5,598,947	57.0
20-21	0.001045	98,058	102	98,007	5,500,844	56.1
21-22	0.001190	97,956	117	97,898	5,402,837	55.2
22-23	0.001309	97,839	128	97,775	5,304,939	54.2
23-24	0.001378	97,711	135	97,644	5,207,163	53.3
24-25	0.001405	97,577	137	97,508	5,109,519	52.4
25-26	0.001420	97,440	138	97,371	5,012,011	51.4
26-27	0.001444	97,301	141	97,231	4,914,641	50.5
27-28	0.001470	97,161	143	97,089	4,817,410	49.6
28-29	0.001503	97,018	146	96,945	4,720,320	48.7
29-30	0.001545	96,872	150	96,797	4,623,375	47.7
30-31	0.001593	96,722	154	96,645	4,526,578	46.8
31-32	0.001644	96,568	159	96,489	4,429,932	45.9
32-33	0.001727	96,410	166	96,326	4,333,443	44.9
33-34	0.001766	96,243	170	96,158	4,237,117	44.0
34-35	0.001839	96,073	177	95,985	4,140,958	43.1
35-36	0.001924	95,897	184	95,804	4,044,974	42.2
36-37	0.002024	95,712	194	95,615	3,949,169	41.3
37-38	0.002146	95,518	205	95,416	3,853,554	40.3
38-39	0.002294	95,313	219	95,204	3,758,138	39.4
39-40	0.002471	95,095	235	94,977	3,662,934	38.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002672	94,860	253	94,733	3,567,957	37.6
41-42	0.002899	94,606	274	94,469	3,473,224	36.7
42-43	0.003157	94,332	298	94,183	3,378,755	35.8
43-44	0.003443	94,034	324	93,872	3,284,572	34.9
44-45	0.003751	93,710	351	93,535	3,190,700	34.0
45-46	0.004058	93,359	379	93,169	3,097,165	33.2
46-47	0.004385	92,980	408	92,776	3,003,996	32.3
47-48	0.004777	92,572	442	92,351	2,911,220	31.4
48-49	0.005259	92,130	485	91,888	2,818,868	30.6
49-50	0.005821	91,646	533	91,379	2,726,981	29.8
50-51	0.006426	91,112	585	90,819	2,635,602	28.9
51-52	0.007041	90,527	637	90,208	2,544,782	28.1
52-53	0.007677	89,889	690	89,544	2,454,574	27.3
53-54	0.008330	89,199	743	88,828	2,365,030	26.5
54-55	0.009009	88,456	797	88,058	2,276,203	25.7
55-56	0.009753	87,659	855	87,232	2,188,145	25.0
56-57	0.010551	86,804	916	86,346	2,100,913	24.2
57-58	0.011346	85,888	974	85,401	2,014,567	23.5
58-59	0.012108	84,914	1,028	84,400	1,929,166	22.7
59-60	0.012858	83,886	1,079	83,347	1,844,766	22.0
60-61	0.013660	82,807	1,131	82,242	1,761,419	21.3
61-62	0.014558	81,676	1,189	81,082	1,679,178	20.6
62-63	0.015526	80,487	1,250	79,862	1,598,096	19.9
63-64	0.016567	79,237	1,313	78,581	1,518,234	19.2
64-65	0.017685	77,925	1,378	77,236	1,439,653	18.5
65-66	0.018905	76,547	1,447	75,823	1,362,417	17.8
66-67	0.020275	75,099	1,523	74,338	1,286,594	17.1
67-68	0.021737	73,577	1,599	72,777	1,212,256	16.5
68-69	0.023296	71,978	1,677	71,139	1,139,479	15.8
69-70	0.024932	70,301	1,753	69,424	1,068,340	15.2
70-71	0.026666	68,548	1,828	67,634	998,915	14.6
71-72	0.028591	66,720	1,908	65,766	931,281	14.0
72-73	0.030589	64,813	1,983	63,821	865,515	13.4
73-74	0.032953	62,830	2,070	61,795	801,694	12.8
74-75	0.035722	60,760	2,170	59,674	739,899	12.2
75-76	0.038768	58,589	2,271	57,453	680,225	11.6
76-77	0.041957	56,318	2,363	55,136	622,771	11.1
77-78	0.045182	53,955	2,438	52,736	567,635	10.5
78-79	0.049240	51,517	2,537	50,249	514,899	10.0
79-80	0.054042	48,980	2,647	47,657	464,651	9.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.058468	46,333	2,709	44,979	416,994	9.0
81-82	0.063324	43,624	2,762	42,243	372,015	8.5
82-83	0.069817	40,862	2,853	39,435	329,772	8.1
83-84	0.075557	38,009	2,872	36,573	290,337	7.6
84-85	0.082221	35,137	2,889	33,693	253,764	7.2
85-86	0.089385	32,248	2,882	30,807	220,071	6.8
86-87	0.097069	29,366	2,850	27,940	189,264	6.4
87-88	0.105292	26,515	2,792	25,119	161,324	6.1
88-89	0.114074	23,723	2,706	22,370	136,205	5.7
89-90	0.123426	21,017	2,594	19,720	113,834	5.4
90-91	0.133360	18,423	2,457	17,195	94,114	5.1
91-92	0.143882	15,966	2,297	14,818	76,920	4.8
92-93	0.154993	13,669	2,119	12,610	62,102	4.5
93-94	0.166688	11,550	1,925	10,588	49,493	4.3
94-95	0.178957	9,625	1,722	8,764	38,905	4.0
95-96	0.191783	7,903	1,516	7,145	30,141	3.8
96-97	0.205141	6,387	1,310	5,732	22,996	3.6
97-98	0.219000	5,077	1,112	4,521	17,264	3.4
98-99	0.233323	3,965	925	3,502	12,744	3.2
99-100	0.248063	3,040	754	2,663	9,241	3.0
100 and over	1.000000	2,286	2,286	6,578	6,578	2.9

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.014052	100,000	1,405	98,766	7,137,559	71.4
1-2	0.000647	98,595	64	98,563	7,038,793	71.4
2-3	0.000494	98,531	49	98,507	6,940,230	70.4
3-4	0.000312	98,482	31	98,467	6,841,723	69.5
4-5	0.000238	98,452	23	98,440	6,743,256	68.5
5-6	0.000246	98,428	24	98,416	6,644,816	67.5
6-7	0.000225	98,404	22	98,393	6,546,400	66.5
7-8	0.000204	98,382	20	98,372	6,448,007	65.5
8-9	0.000175	98,362	17	98,353	6,349,636	64.6
9-10	0.000139	98,345	14	98,338	6,251,282	63.6
10-11	0.000111	98,331	11	98,325	6,152,945	62.6
11-12	0.000115	98,320	11	98,314	6,054,619	61.6
12-13	0.000179	98,309	18	98,300	5,956,305	60.6
13-14	0.000312	98,291	31	98,276	5,858,005	59.6
14-15	0.000488	98,260	48	98,236	5,759,730	58.6
15-16	0.000666	98,212	65	98,180	5,661,493	57.6
16-17	0.000828	98,147	81	98,106	5,563,314	56.7
17-18	0.000993	98,066	97	98,017	5,465,207	55.7
18-19	0.001170	97,968	115	97,911	5,367,190	54.8
19-20	0.001364	97,854	133	97,787	5,269,279	53.8
20-21	0.001591	97,720	155	97,643	5,171,492	52.9
21-22	0.001823	97,565	178	97,476	5,073,850	52.0
22-23	0.002008	97,387	196	97,289	4,976,374	51.1
23-24	0.002105	97,191	205	97,089	4,879,084	50.2
24-25	0.002127	96,987	206	96,884	4,781,995	49.3
25-26	0.002125	96,781	206	96,678	4,685,111	48.4
26-27	0.002135	96,575	206	96,472	4,588,434	47.5
27-28	0.002149	96,369	207	96,265	4,491,962	46.6
28-29	0.002178	96,162	209	96,057	4,395,697	45.7
29-30	0.002221	95,952	213	95,846	4,299,640	44.8
30-31	0.002268	95,739	217	95,631	4,203,794	43.9
31-32	0.002312	95,522	221	95,412	4,108,164	43.0
32-33	0.002410	95,301	230	95,186	4,012,752	42.1
33-34	0.002417	95,071	230	94,957	3,917,566	41.2
34-35	0.002482	94,842	235	94,724	3,822,609	40.3
35-36	0.002559	94,606	242	94,485	3,727,885	39.4
36-37	0.002656	94,364	251	94,239	3,633,400	38.5
37-38	0.002779	94,113	262	93,983	3,539,161	37.6
38-39	0.002934	93,852	275	93,714	3,445,179	36.7
39-40	0.003124	93,577	292	93,430	3,351,465	35.8

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.003348	93,284	312	93,128	3,258,034	34.9
41-42	0.003602	92,972	335	92,804	3,164,906	34.0
42-43	0.003883	92,637	360	92,457	3,072,102	33.2
43-44	0.004184	92,277	386	92,084	2,979,645	32.3
44-45	0.004505	91,891	414	91,684	2,887,561	31.4
45-46	0.004827	91,477	442	91,256	2,795,876	30.6
46-47	0.005187	91,036	472	90,800	2,704,620	29.7
47-48	0.005656	90,563	512	90,307	2,613,820	28.9
48-49	0.006273	90,051	565	89,769	2,523,513	28.0
49-50	0.007017	89,486	628	89,172	2,433,744	27.2
50-51	0.007819	88,858	695	88,511	2,344,572	26.4
51-52	0.008636	88,164	761	87,783	2,256,061	25.6
52-53	0.009509	87,402	831	86,987	2,168,278	24.8
53-54	0.010444	86,571	904	86,119	2,081,292	24.0
54-55	0.011446	85,667	981	85,177	1,995,173	23.3
55-56	0.012570	84,686	1,064	84,154	1,909,996	22.6
56-57	0.013767	83,622	1,151	83,046	1,825,842	21.8
57-58	0.014917	82,471	1,230	81,855	1,742,796	21.1
58-59	0.015937	81,240	1,295	80,593	1,660,941	20.4
59-60	0.016860	79,946	1,348	79,272	1,580,348	19.8
60-61	0.017807	78,598	1,400	77,898	1,501,076	19.1
61-62	0.018881	77,198	1,458	76,469	1,423,178	18.4
62-63	0.020063	75,741	1,520	74,981	1,346,709	17.8
63-64	0.021389	74,221	1,588	73,427	1,271,728	17.1
64-65	0.022860	72,633	1,660	71,803	1,198,301	16.5
65-66	0.024482	70,973	1,738	70,104	1,126,498	15.9
66-67	0.026273	69,235	1,819	68,326	1,056,394	15.3
67-68	0.028090	67,416	1,894	66,470	988,068	14.7
68-69	0.029991	65,523	1,965	64,540	921,598	14.1
69-70	0.031980	63,558	2,033	62,541	857,058	13.5
70-71	0.033871	61,525	2,084	60,483	794,517	12.9
71-72	0.035947	59,441	2,137	58,373	734,034	12.3
72-73	0.038329	57,304	2,196	56,206	675,661	11.8
73-74	0.041337	55,108	2,278	53,969	619,455	11.2
74-75	0.044755	52,830	2,364	51,648	565,486	10.7
75-76	0.048585	50,466	2,452	49,240	513,838	10.2
76-77	0.053110	48,014	2,550	46,739	464,598	9.7
77-78	0.057322	45,464	2,606	44,161	417,860	9.2
78-79	0.062244	42,858	2,668	41,524	373,699	8.7
79-80	0.068076	40,190	2,736	38,822	332,175	8.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.073057	37,454	2,736	36,086	293,353	7.8
81-82	0.078673	34,718	2,731	33,352	257,267	7.4
82-83	0.085871	31,986	2,747	30,613	223,915	7.0
83-84	0.093354	29,240	2,730	27,875	193,302	6.6
84-85	0.101375	26,510	2,687	25,166	165,427	6.2
85-86	0.109953	23,823	2,619	22,513	140,261	5.9
86-87	0.119104	21,203	2,525	19,941	117,748	5.6
87-88	0.128840	18,678	2,406	17,475	97,808	5.2
88-89	0.139170	16,271	2,264	15,139	80,333	4.9
89-90	0.150098	14,007	2,102	12,956	65,194	4.7
90-91	0.161620	11,904	1,924	10,942	52,238	4.4
91-92	0.173729	9,980	1,734	9,114	41,296	4.1
92-93	0.186411	8,247	1,537	7,478	32,182	3.9
93-94	0.199643	6,709	1,339	6,040	24,704	3.7
94-95	0.213398	5,370	1,146	4,797	18,665	3.5
95-96	0.227638	4,224	962	3,743	13,868	3.3
96-97	0.242320	3,262	791	2,867	10,125	3.1
97-98	0.257394	2,472	636	2,154	7,257	2.9
98-99	0.272804	1,836	501	1,585	5,104	2.8
99-100	0.288485	1,335	385	1,142	3,518	2.6
100 and over	1.000000	950	950	2,376	2,376	2.5



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.011121	100,000	1,112	99,030	7,771,877	77.7
1-2	0.000626	98,888	62	98,857	7,672,847	77.6
2-3	0.000360	98,826	36	98,808	7,573,990	76.6
3-4	0.000290	98,791	29	98,776	7,475,182	75.7
4-5	0.000242	98,762	24	98,750	7,376,406	74.7
5-6	0.000202	98,738	20	98,728	7,277,656	73.7
6-7	0.000171	98,718	17	98,710	7,178,928	72.7
7-8	0.000150	98,701	15	98,694	7,080,218	71.7
8-9	0.000137	98,686	14	98,680	6,981,524	70.7
9-10	0.000132	98,673	13	98,666	6,882,845	69.8
10-11	0.000135	98,660	13	98,653	6,784,178	68.8
11-12	0.000146	98,647	14	98,639	6,685,525	67.8
12-13	0.000166	98,632	16	98,624	6,586,886	66.8
13-14	0.000192	98,616	19	98,606	6,488,262	65.8
14-15	0.000224	98,597	22	98,586	6,389,656	64.8
15-16	0.000257	98,575	25	98,562	6,291,070	63.8
16-17	0.000292	98,549	29	98,535	6,192,508	62.8
17-18	0.000331	98,521	33	98,504	6,093,973	61.9
18-19	0.000377	98,488	37	98,470	5,995,468	60.9
19-20	0.000431	98,451	42	98,430	5,896,999	59.9
20-21	0.000494	98,408	49	98,384	5,798,569	58.9
21-22	0.000561	98,360	55	98,332	5,700,185	58.0
22-23	0.000623	98,305	61	98,274	5,601,853	57.0
23-24	0.000674	98,243	66	98,210	5,503,579	56.0
24-25	0.000714	98,177	70	98,142	5,405,368	55.1
25-26	0.000755	98,107	74	98,070	5,307,226	54.1
26-27	0.000801	98,033	79	97,994	5,209,156	53.1
27-28	0.000845	97,955	83	97,913	5,111,162	52.2
28-29	0.000888	97,872	87	97,828	5,013,249	51.2
29-30	0.000932	97,785	91	97,739	4,915,421	50.3
30-31	0.000983	97,694	96	97,646	4,817,681	49.3
31-32	0.001043	97,598	102	97,547	4,720,036	48.4
32-33	0.001120	97,496	109	97,441	4,622,489	47.4
33-34	0.001185	97,387	115	97,329	4,525,048	46.5
34-35	0.001267	97,271	123	97,210	4,427,719	45.5
35-36	0.001359	97,148	132	97,082	4,330,509	44.6
36-37	0.001464	97,016	142	96,945	4,233,427	43.6
37-38	0.001585	96,874	154	96,797	4,136,482	42.7
38-39	0.001726	96,720	167	96,637	4,039,685	41.8
39-40	0.001891	96,553	183	96,462	3,943,048	40.8

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002070	96,371	199	96,271	3,846,586	39.9
41-42	0.002270	96,171	218	96,062	3,750,315	39.0
42-43	0.002507	95,953	241	95,833	3,654,252	38.1
43-44	0.002780	95,713	266	95,580	3,558,419	37.2
44-45	0.003076	95,447	294	95,300	3,462,840	36.3
45-46	0.003372	95,153	321	94,992	3,367,540	35.4
46-47	0.003671	94,832	348	94,658	3,272,548	34.5
47-48	0.003995	94,484	377	94,295	3,177,890	33.6
48-49	0.004359	94,107	410	93,901	3,083,594	32.8
49-50	0.004759	93,696	446	93,473	2,989,693	31.9
50-51	0.005190	93,250	484	93,008	2,896,219	31.1
51-52	0.005627	92,766	522	92,505	2,803,211	30.2
52-53	0.006059	92,244	559	91,965	2,710,706	29.4
53-54	0.006476	91,685	594	91,389	2,618,741	28.6
54-55	0.006889	91,092	628	90,778	2,527,352	27.7
55-56	0.007328	90,464	663	90,133	2,436,574	26.9
56-57	0.007809	89,801	701	89,451	2,346,441	26.1
57-58	0.008329	89,100	742	88,729	2,256,991	25.3
58-59	0.008896	88,358	786	87,965	2,168,262	24.5
59-60	0.009518	87,572	834	87,155	2,080,297	23.8
60-61	0.010218	86,738	886	86,295	1,993,141	23.0
61-62	0.010992	85,852	944	85,380	1,906,846	22.2
62-63	0.011814	84,908	1,003	84,407	1,821,466	21.5
63-64	0.012661	83,905	1,062	83,374	1,737,059	20.7
64-65	0.013544	82,843	1,122	82,282	1,653,685	20.0
65-66	0.014507	81,721	1,186	81,128	1,571,403	19.2
66-67	0.015605	80,535	1,257	79,907	1,490,275	18.5
67-68	0.016855	79,279	1,336	78,610	1,410,368	17.8
68-69	0.018211	77,942	1,419	77,233	1,331,757	17.1
69-70	0.019630	76,523	1,502	75,772	1,254,525	16.4
70-71	0.021298	75,021	1,598	74,222	1,178,753	15.7
71-72	0.023172	73,423	1,701	72,572	1,104,531	15.0
72-73	0.024975	71,722	1,791	70,826	1,031,958	14.4
73-74	0.027000	69,930	1,888	68,986	961,132	13.7
74-75	0.029453	68,042	2,004	67,040	892,146	13.1
75-76	0.032143	66,038	2,123	64,977	825,106	12.5
76-77	0.034632	63,916	2,214	62,809	760,129	11.9
77-78	0.037459	61,702	2,311	60,546	697,320	11.3
78-79	0.041244	59,391	2,450	58,166	636,773	10.7
79-80	0.045675	56,941	2,601	55,641	578,607	10.2

Source: CDC/NCHS, National Vital Statistics System, Mortality

Spreadsheet version available from: [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/62\\_07/](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/62_07/)**Table 9. Life table for black females: United States, 2009**

Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050106	54,340	2,723	52,979	522,967	9.6
81-82	0.054862	51,618	2,832	50,202	469,988	9.1
82-83	0.060945	48,786	2,973	47,299	419,786	8.6
83-84	0.066830	45,813	3,062	44,282	372,487	8.1
84-85	0.071862	42,751	3,072	41,215	328,205	7.7
85-86	0.078861	39,679	3,129	38,114	286,990	7.2
86-87	0.086443	36,550	3,159	34,970	248,876	6.8
87-88	0.094636	33,390	3,160	31,810	213,906	6.4
88-89	0.103467	30,230	3,128	28,666	182,095	6.0
89-90	0.112960	27,102	3,061	25,572	153,429	5.7
90-91	0.123133	24,041	2,960	22,561	127,857	5.3
91-92	0.134001	21,081	2,825	19,668	105,297	5.0
92-93	0.145571	18,256	2,658	16,927	85,628	4.7
93-94	0.157844	15,598	2,462	14,367	68,701	4.4
94-95	0.170813	13,136	2,244	12,014	54,334	4.1
95-96	0.184460	10,892	2,009	9,888	42,319	3.9
96-97	0.198762	8,883	1,766	8,000	32,432	3.7
97-98	0.213680	7,118	1,521	6,357	24,431	3.4
98-99	0.229170	5,597	1,283	4,955	18,074	3.2
99-100	0.245175	4,314	1,058	3,785	13,119	3.0
100 and over	1.000000	3,256	3,256	9,333	9,333	2.9

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005261	100,000	526	99,541	8,111,535	81.1
1-2	0.000387	99,474	38	99,455	8,011,994	80.5
2-3	0.000273	99,435	27	99,422	7,912,539	79.6
3-4	0.000191	99,408	19	99,399	7,813,117	78.6
4-5	0.000138	99,389	14	99,382	7,713,718	77.6
5-6	0.000144	99,376	14	99,368	7,614,336	76.6
6-7	0.000130	99,361	13	99,355	7,514,968	75.6
7-8	0.000119	99,348	12	99,342	7,415,613	74.6
8-9	0.000106	99,337	11	99,331	7,316,270	73.7
9-10	0.000094	99,326	9	99,321	7,216,939	72.7
10-11	0.000086	99,317	9	99,312	7,117,618	71.7
11-12	0.000090	99,308	9	99,304	7,018,306	70.7
12-13	0.000116	99,299	12	99,293	6,919,002	69.7
13-14	0.000169	99,288	17	99,279	6,819,709	68.7
14-15	0.000240	99,271	24	99,259	6,720,430	67.7
15-16	0.000318	99,247	32	99,231	6,621,171	66.7
16-17	0.000392	99,215	39	99,196	6,521,939	65.7
17-18	0.000461	99,177	46	99,154	6,422,743	64.8
18-19	0.000521	99,131	52	99,105	6,323,590	63.8
19-20	0.000576	99,079	57	99,051	6,224,485	62.8
20-21	0.000633	99,022	63	98,991	6,125,434	61.9
21-22	0.000689	98,960	68	98,925	6,026,443	60.9
22-23	0.000730	98,891	72	98,855	5,927,518	59.9
23-24	0.000749	98,819	74	98,782	5,828,662	59.0
24-25	0.000751	98,745	74	98,708	5,729,880	58.0
25-26	0.000747	98,671	74	98,634	5,631,172	57.1
26-27	0.000746	98,597	74	98,561	5,532,538	56.1
27-28	0.000746	98,524	73	98,487	5,433,977	55.2
28-29	0.000749	98,450	74	98,413	5,335,490	54.2
29-30	0.000757	98,376	74	98,339	5,237,077	53.2
30-31	0.000766	98,302	75	98,264	5,138,737	52.3
31-32	0.000777	98,227	76	98,189	5,040,473	51.3
32-33	0.000796	98,150	78	98,111	4,942,285	50.4
33-34	0.000832	98,072	82	98,031	4,844,173	49.4
34-35	0.000877	97,991	86	97,948	4,746,142	48.4
35-36	0.000930	97,905	91	97,859	4,648,194	47.5
36-37	0.000988	97,814	97	97,765	4,550,335	46.5
37-38	0.001056	97,717	103	97,665	4,452,570	45.6
38-39	0.001133	97,614	111	97,558	4,354,905	44.6
39-40	0.001222	97,503	119	97,444	4,257,346	43.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001321	97,384	129	97,320	4,159,902	42.7
41-42	0.001433	97,255	139	97,186	4,062,583	41.8
42-43	0.001563	97,116	152	97,040	3,965,397	40.8
43-44	0.001713	96,964	166	96,881	3,868,357	39.9
44-45	0.001880	96,798	182	96,707	3,771,476	39.0
45-46	0.002058	96,616	199	96,517	3,674,769	38.0
46-47	0.002245	96,417	216	96,309	3,578,252	37.1
47-48	0.002448	96,201	235	96,083	3,481,943	36.2
48-49	0.002671	95,965	256	95,837	3,385,860	35.3
49-50	0.002917	95,709	279	95,569	3,290,023	34.4
50-51	0.003192	95,430	305	95,277	3,194,454	33.5
51-52	0.003486	95,125	332	94,959	3,099,176	32.6
52-53	0.003783	94,794	359	94,614	3,004,217	31.7
53-54	0.004072	94,435	385	94,243	2,909,602	30.8
54-55	0.004359	94,050	410	93,845	2,815,360	29.9
55-56	0.004664	93,640	437	93,422	2,721,514	29.1
56-57	0.005006	93,204	467	92,970	2,628,092	28.2
57-58	0.005381	92,737	499	92,488	2,535,122	27.3
58-59	0.005795	92,238	535	91,971	2,442,634	26.5
59-60	0.006250	91,704	573	91,417	2,350,663	25.6
60-61	0.006746	91,130	615	90,823	2,259,246	24.8
61-62	0.007290	90,516	660	90,186	2,168,423	24.0
62-63	0.007898	89,856	710	89,501	2,078,238	23.1
63-64	0.008584	89,146	765	88,764	1,988,737	22.3
64-65	0.009363	88,381	827	87,967	1,899,973	21.5
65-66	0.010253	87,553	898	87,105	1,812,006	20.7
66-67	0.011250	86,656	975	86,168	1,724,901	19.9
67-68	0.012325	85,681	1,056	85,153	1,638,733	19.1
68-69	0.013435	84,625	1,137	84,056	1,553,580	18.4
69-70	0.014576	83,488	1,217	82,880	1,469,524	17.6
70-71	0.015763	82,271	1,297	81,623	1,386,644	16.9
71-72	0.017072	80,974	1,382	80,283	1,305,021	16.1
72-73	0.018572	79,592	1,478	78,853	1,224,738	15.4
73-74	0.020354	78,114	1,590	77,319	1,145,885	14.7
74-75	0.022433	76,524	1,717	75,665	1,068,567	14.0
75-76	0.024669	74,807	1,845	73,884	992,901	13.3
76-77	0.027131	72,962	1,980	71,972	919,017	12.6
77-78	0.030018	70,982	2,131	69,917	847,045	11.9
78-79	0.033406	68,851	2,300	67,701	777,128	11.3
79-80	0.037173	66,551	2,474	65,314	709,427	10.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.041259	64,077	2,644	62,756	644,112	10.1
81-82	0.045658	61,434	2,805	60,031	581,357	9.5
82-83	0.050706	58,629	2,973	57,142	521,326	8.9
83-84	0.056493	55,656	3,144	54,084	464,183	8.3
84-85	0.062986	52,512	3,308	50,858	410,100	7.8
85-86	0.071055	49,204	3,496	47,456	359,242	7.3
86-87	0.079436	45,708	3,631	43,893	311,786	6.8
87-88	0.088648	42,077	3,730	40,212	267,893	6.4
88-89	0.098735	38,347	3,786	36,454	227,681	5.9
89-90	0.109736	34,561	3,793	32,665	191,227	5.5
90-91	0.121681	30,768	3,744	28,896	158,562	5.2
91-92	0.134589	27,024	3,637	25,206	129,666	4.8
92-93	0.148465	23,387	3,472	21,651	104,460	4.5
93-94	0.163299	19,915	3,252	18,289	82,809	4.2
94-95	0.179063	16,663	2,984	15,171	64,520	3.9
95-96	0.195712	13,679	2,677	12,341	49,349	3.6
96-97	0.213178	11,002	2,345	9,829	37,008	3.4
97-98	0.231373	8,657	2,003	7,655	27,179	3.1
98-99	0.250193	6,654	1,665	5,821	19,524	2.9
99-100	0.269512	4,989	1,345	4,317	13,703	2.7
100 and over	1.000000	3,644	3,644	9,386	9,386	2.6

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005652	100,000	565	99,506	7,842,893	78.4
1-2	0.000394	99,435	39	99,415	7,743,387	77.9
2-3	0.000296	99,396	29	99,381	7,643,972	76.9
3-4	0.000198	99,366	20	99,356	7,544,591	75.9
4-5	0.000154	99,347	15	99,339	7,445,235	74.9
5-6	0.000150	99,331	15	99,324	7,345,896	74.0
6-7	0.000136	99,316	13	99,310	7,246,572	73.0
7-8	0.000123	99,303	12	99,297	7,147,262	72.0
8-9	0.000107	99,291	11	99,285	7,047,966	71.0
9-10	0.000089	99,280	9	99,276	6,948,680	70.0
10-11	0.000077	99,271	8	99,267	6,849,405	69.0
11-12	0.000082	99,264	8	99,259	6,750,138	68.0
12-13	0.000122	99,255	12	99,249	6,650,878	67.0
13-14	0.000205	99,243	20	99,233	6,551,629	66.0
14-15	0.000317	99,223	31	99,207	6,452,396	65.0
15-16	0.000437	99,192	43	99,170	6,353,188	64.0
16-17	0.000551	99,148	55	99,121	6,254,019	63.1
17-18	0.000660	99,093	65	99,061	6,154,898	62.1
18-19	0.000759	99,028	75	98,991	6,055,837	61.2
19-20	0.000850	98,953	84	98,911	5,956,846	60.2
20-21	0.000944	98,869	93	98,822	5,857,936	59.2
21-22	0.001035	98,776	102	98,724	5,759,113	58.3
22-23	0.001098	98,673	108	98,619	5,660,389	57.4
23-24	0.001123	98,565	111	98,510	5,561,770	56.4
24-25	0.001120	98,454	110	98,399	5,463,260	55.5
25-26	0.001106	98,344	109	98,290	5,364,861	54.6
26-27	0.001096	98,235	108	98,181	5,266,572	53.6
27-28	0.001089	98,128	107	98,074	5,168,390	52.7
28-29	0.001092	98,021	107	97,967	5,070,316	51.7
29-30	0.001104	97,914	108	97,860	4,972,349	50.8
30-31	0.001116	97,806	109	97,751	4,874,489	49.8
31-32	0.001130	97,696	110	97,641	4,776,738	48.9
32-33	0.001151	97,586	112	97,530	4,679,097	47.9
33-34	0.001187	97,474	116	97,416	4,581,567	47.0
34-35	0.001232	97,358	120	97,298	4,484,151	46.1
35-36	0.001285	97,238	125	97,176	4,386,854	45.1
36-37	0.001346	97,113	131	97,048	4,289,678	44.2
37-38	0.001421	96,982	138	96,913	4,192,630	43.2
38-39	0.001514	96,844	147	96,771	4,095,717	42.3
39-40	0.001624	96,698	157	96,619	3,998,946	41.4

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001749	96,541	169	96,456	3,902,326	40.4
41-42	0.001888	96,372	182	96,281	3,805,870	39.5
42-43	0.002040	96,190	196	96,092	3,709,589	38.6
43-44	0.002204	95,994	212	95,888	3,613,497	37.6
44-45	0.002381	95,782	228	95,668	3,517,609	36.7
45-46	0.002566	95,554	245	95,432	3,421,941	35.8
46-47	0.002770	95,309	264	95,177	3,326,509	34.9
47-48	0.003011	95,045	286	94,902	3,231,332	34.0
48-49	0.003303	94,759	313	94,602	3,136,430	33.1
49-50	0.003647	94,446	344	94,274	3,041,828	32.2
50-51	0.004037	94,101	380	93,911	2,947,555	31.3
51-52	0.004453	93,721	417	93,513	2,853,643	30.4
52-53	0.004877	93,304	455	93,077	2,760,130	29.6
53-54	0.005287	92,849	491	92,604	2,667,054	28.7
54-55	0.005691	92,358	526	92,095	2,574,450	27.9
55-56	0.006126	91,833	563	91,551	2,482,355	27.0
56-57	0.006613	91,270	604	90,968	2,390,803	26.2
57-58	0.007129	90,666	646	90,343	2,299,835	25.4
58-59	0.007668	90,020	690	89,675	2,209,492	24.5
59-60	0.008236	89,330	736	88,962	2,119,817	23.7
60-61	0.008842	88,594	783	88,202	2,030,855	22.9
61-62	0.009503	87,811	835	87,394	1,942,652	22.1
62-63	0.010235	86,976	890	86,531	1,855,259	21.3
63-64	0.011064	86,086	952	85,610	1,768,728	20.5
64-65	0.012008	85,134	1,022	84,623	1,683,118	19.8
65-66	0.013077	84,111	1,100	83,561	1,598,495	19.0
66-67	0.014274	83,011	1,185	82,419	1,514,934	18.2
67-68	0.015602	81,827	1,277	81,188	1,432,515	17.5
68-69	0.017022	80,550	1,371	79,864	1,351,327	16.8
69-70	0.018508	79,179	1,465	78,446	1,271,462	16.1
70-71	0.020064	77,713	1,559	76,934	1,193,016	15.4
71-72	0.021734	76,154	1,655	75,327	1,116,082	14.7
72-73	0.023546	74,499	1,754	73,622	1,040,756	14.0
73-74	0.025571	72,745	1,860	71,815	967,134	13.3
74-75	0.027847	70,885	1,974	69,898	895,319	12.6
75-76	0.030255	68,911	2,085	67,868	825,422	12.0
76-77	0.033004	66,826	2,205	65,723	757,553	11.3
77-78	0.036398	64,620	2,352	63,444	691,830	10.7
78-79	0.040552	62,268	2,525	61,006	628,386	10.1
79-80	0.045289	59,743	2,706	58,390	567,380	9.5

Source: CDC/NCHS, National Vital Statistics System, Mortality



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050695	57,037	2,892	55,592	508,990	8.9
81-82	0.056667	54,146	3,068	52,612	453,398	8.4
82-83	0.062816	51,078	3,208	49,473	400,787	7.8
83-84	0.069688	47,869	3,336	46,201	351,313	7.3
84-85	0.078099	44,533	3,478	42,794	305,112	6.9
85-86	0.087352	41,055	3,586	39,262	262,318	6.4
86-87	0.097509	37,469	3,654	35,642	223,056	6.0
87-88	0.108612	33,815	3,673	31,979	187,413	5.5
88-89	0.120695	30,143	3,638	28,324	155,434	5.2
89-90	0.133781	26,505	3,546	24,732	127,111	4.8
90-91	0.147879	22,959	3,395	21,261	102,379	4.5
91-92	0.162980	19,564	3,188	17,969	81,118	4.1
92-93	0.179058	16,375	2,932	14,909	63,148	3.9
93-94	0.196066	13,443	2,636	12,125	48,239	3.6
94-95	0.213937	10,807	2,312	9,651	36,114	3.3
95-96	0.232579	8,495	1,976	7,507	26,463	3.1
96-97	0.251881	6,519	1,642	5,698	18,955	2.9
97-98	0.271715	4,877	1,325	4,215	13,257	2.7
98-99	0.291933	3,552	1,037	3,034	9,042	2.5
99-100	0.312379	2,515	786	2,122	6,009	2.4
100 and over	1.000000	1,729	1,729	3,886	3,886	2.2

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.004852	100,000	485	99,577	8,352,075	83.5
1-2	0.000379	99,515	38	99,496	8,252,498	82.9
2-3	0.000250	99,477	25	99,465	8,153,002	82.0
3-4	0.000184	99,452	18	99,443	8,053,537	81.0
4-5	0.000122	99,434	12	99,428	7,954,094	80.0
5-6	0.000138	99,422	14	99,415	7,854,666	79.0
6-7	0.000124	99,408	12	99,402	7,755,251	78.0
7-8	0.000114	99,396	11	99,390	7,655,849	77.0
8-9	0.000106	99,384	10	99,379	7,556,459	76.0
9-10	0.000099	99,374	10	99,369	7,457,080	75.0
10-11	0.000096	99,364	10	99,359	7,357,711	74.0
11-12	0.000099	99,354	10	99,350	7,258,352	73.1
12-13	0.000110	99,345	11	99,339	7,159,002	72.1
13-14	0.000131	99,334	13	99,327	7,059,663	71.1
14-15	0.000159	99,321	16	99,313	6,960,336	70.1
15-16	0.000191	99,305	19	99,296	6,861,023	69.1
16-17	0.000221	99,286	22	99,275	6,761,728	68.1
17-18	0.000246	99,264	24	99,252	6,662,452	67.1
18-19	0.000262	99,240	26	99,227	6,563,201	66.1
19-20	0.000273	99,214	27	99,200	6,463,974	65.2
20-21	0.000282	99,187	28	99,173	6,364,774	64.2
21-22	0.000294	99,159	29	99,144	6,265,601	63.2
22-23	0.000306	99,129	30	99,114	6,166,457	62.2
23-24	0.000318	99,099	32	99,083	6,067,343	61.2
24-25	0.000330	99,067	33	99,051	5,968,260	60.2
25-26	0.000344	99,035	34	99,018	5,869,209	59.3
26-27	0.000356	99,001	35	98,983	5,770,191	58.3
27-28	0.000366	98,965	36	98,947	5,671,208	57.3
28-29	0.000372	98,929	37	98,911	5,572,261	56.3
29-30	0.000377	98,892	37	98,874	5,473,350	55.3
30-31	0.000382	98,855	38	98,836	5,374,476	54.4
31-32	0.000393	98,817	39	98,798	5,275,640	53.4
32-33	0.000412	98,778	41	98,758	5,176,842	52.4
33-34	0.000450	98,738	44	98,716	5,078,084	51.4
34-35	0.000498	98,693	49	98,669	4,979,369	50.5
35-36	0.000554	98,644	55	98,617	4,880,700	49.5
36-37	0.000613	98,590	60	98,559	4,782,083	48.5
37-38	0.000674	98,529	66	98,496	4,683,524	47.5
38-39	0.000735	98,463	72	98,427	4,585,028	46.6
39-40	0.000800	98,390	79	98,351	4,486,601	45.6

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.000869	98,312	85	98,269	4,388,250	44.6
41-42	0.000951	98,226	93	98,180	4,289,981	43.7
42-43	0.001058	98,133	104	98,081	4,191,802	42.7
43-44	0.001198	98,029	117	97,970	4,093,721	41.8
44-45	0.001362	97,912	133	97,845	3,995,750	40.8
45-46	0.001540	97,778	151	97,703	3,897,905	39.9
46-47	0.001718	97,628	168	97,544	3,800,203	38.9
47-48	0.001888	97,460	184	97,368	3,702,659	38.0
48-49	0.002045	97,276	199	97,176	3,605,291	37.1
49-50	0.002195	97,077	213	96,970	3,508,114	36.1
50-51	0.002357	96,864	228	96,750	3,411,144	35.2
51-52	0.002535	96,636	245	96,513	3,314,394	34.3
52-53	0.002716	96,391	262	96,260	3,217,881	33.4
53-54	0.002897	96,129	278	95,990	3,121,622	32.5
54-55	0.003082	95,850	295	95,703	3,025,632	31.6
55-56	0.003278	95,555	313	95,398	2,929,930	30.7
56-57	0.003501	95,242	333	95,075	2,834,531	29.8
57-58	0.003762	94,908	357	94,730	2,739,456	28.9
58-59	0.004074	94,551	385	94,359	2,644,727	28.0
59-60	0.004440	94,166	418	93,957	2,550,368	27.1
60-61	0.004849	93,748	455	93,521	2,456,411	26.2
61-62	0.005303	93,293	495	93,046	2,362,890	25.3
62-63	0.005819	92,799	540	92,529	2,269,844	24.5
63-64	0.006407	92,259	591	91,963	2,177,316	23.6
64-65	0.007075	91,667	649	91,343	2,085,353	22.7
65-66	0.007853	91,019	715	90,662	1,994,010	21.9
66-67	0.008726	90,304	788	89,910	1,903,348	21.1
67-68	0.009636	89,516	863	89,085	1,813,438	20.3
68-69	0.010531	88,654	934	88,187	1,724,353	19.5
69-70	0.011429	87,720	1,003	87,219	1,636,166	18.7
70-71	0.012354	86,717	1,071	86,182	1,548,948	17.9
71-72	0.013413	85,646	1,149	85,072	1,462,766	17.1
72-73	0.014714	84,497	1,243	83,876	1,377,694	16.3
73-74	0.016365	83,254	1,362	82,573	1,293,818	15.5
74-75	0.018363	81,892	1,504	81,140	1,211,246	14.8
75-76	0.020543	80,388	1,651	79,562	1,130,106	14.1
76-77	0.022858	78,736	1,800	77,836	1,050,544	13.3
77-78	0.025470	76,937	1,960	75,957	972,707	12.6
78-79	0.028444	74,977	2,133	73,911	896,751	12.0
79-80	0.031721	72,844	2,311	71,689	822,840	11.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.035158	70,534	2,480	69,294	751,151	10.6
81-82	0.038824	68,054	2,642	66,733	681,857	10.0
82-83	0.043502	65,412	2,846	63,989	615,125	9.4
83-84	0.049037	62,566	3,068	61,032	551,136	8.8
84-85	0.055237	59,498	3,287	57,855	490,104	8.2
85-86	0.062779	56,212	3,529	54,447	432,249	7.7
86-87	0.070791	52,683	3,729	50,818	377,802	7.2
87-88	0.079681	48,953	3,901	47,003	326,984	6.7
88-89	0.089509	45,052	4,033	43,036	279,981	6.2
89-90	0.100328	41,020	4,115	38,962	236,945	5.8
90-91	0.112184	36,904	4,140	34,834	197,983	5.4
91-92	0.125110	32,764	4,099	30,715	163,149	5.0
92-93	0.139128	28,665	3,988	26,671	132,434	4.6
93-94	0.154240	24,677	3,806	22,774	105,763	4.3
94-95	0.170427	20,871	3,557	19,092	82,989	4.0
95-96	0.187651	17,314	3,249	15,689	63,896	3.7
96-97	0.205844	14,065	2,895	12,617	48,207	3.4
97-98	0.224916	11,170	2,512	9,914	35,590	3.2
98-99	0.244752	8,657	2,119	7,598	25,676	3.0
99-100	0.265213	6,539	1,734	5,671	18,078	2.8
100 and over	1.000000	4,804	4,804	12,406	12,406	2.6

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005310	100,000	531	99,538	7,871,390	78.7
1-2	0.000384	99,469	38	99,450	7,771,853	78.1
2-3	0.000257	99,431	26	99,418	7,672,403	77.2
3-4	0.000203	99,405	20	99,395	7,572,985	76.2
4-5	0.000159	99,385	16	99,377	7,473,589	75.2
5-6	0.000138	99,369	14	99,362	7,374,212	74.2
6-7	0.000122	99,356	12	99,349	7,274,850	73.2
7-8	0.000109	99,343	11	99,338	7,175,500	72.2
8-9	0.000095	99,333	9	99,328	7,076,162	71.2
9-10	0.000080	99,323	8	99,319	6,976,834	70.2
10-11	0.000071	99,315	7	99,312	6,877,515	69.2
11-12	0.000077	99,308	8	99,304	6,778,204	68.3
12-13	0.000108	99,300	11	99,295	6,678,900	67.3
13-14	0.000169	99,290	17	99,281	6,579,605	66.3
14-15	0.000250	99,273	25	99,261	6,480,323	65.3
15-16	0.000335	99,248	33	99,231	6,381,063	64.3
16-17	0.000416	99,215	41	99,194	6,281,831	63.3
17-18	0.000495	99,174	49	99,149	6,182,637	62.3
18-19	0.000574	99,125	57	99,096	6,083,488	61.4
19-20	0.000652	99,068	65	99,035	5,984,392	60.4
20-21	0.000735	99,003	73	98,967	5,885,357	59.4
21-22	0.000815	98,930	81	98,890	5,786,390	58.5
22-23	0.000877	98,850	87	98,806	5,687,500	57.5
23-24	0.000913	98,763	90	98,718	5,588,694	56.6
24-25	0.000928	98,673	92	98,627	5,489,976	55.6
25-26	0.000937	98,581	92	98,535	5,391,349	54.7
26-27	0.000951	98,489	94	98,442	5,292,814	53.7
27-28	0.000966	98,395	95	98,348	5,194,371	52.8
28-29	0.000987	98,300	97	98,252	5,096,024	51.8
29-30	0.001014	98,203	100	98,153	4,997,772	50.9
30-31	0.001048	98,104	103	98,052	4,899,619	49.9
31-32	0.001087	98,001	107	97,947	4,801,567	49.0
32-33	0.001133	97,894	111	97,839	4,703,619	48.0
33-34	0.001172	97,783	115	97,726	4,605,781	47.1
34-35	0.001218	97,669	119	97,609	4,508,055	46.2
35-36	0.001274	97,550	124	97,488	4,410,445	45.2
36-37	0.001344	97,426	131	97,360	4,312,958	44.3
37-38	0.001427	97,295	139	97,225	4,215,598	43.3
38-39	0.001525	97,156	148	97,082	4,118,373	42.4
39-40	0.001643	97,008	159	96,928	4,021,291	41.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001774	96,848	172	96,762	3,924,363	40.5
41-42	0.001924	96,676	186	96,583	3,827,601	39.6
42-43	0.002108	96,490	203	96,389	3,731,017	38.7
43-44	0.002322	96,287	224	96,175	3,634,629	37.7
44-45	0.002553	96,063	245	95,941	3,538,454	36.8
45-46	0.002781	95,818	266	95,685	3,442,513	35.9
46-47	0.003010	95,552	288	95,408	3,346,828	35.0
47-48	0.003262	95,264	311	95,109	3,251,420	34.1
48-49	0.003548	94,953	337	94,785	3,156,311	33.2
49-50	0.003867	94,616	366	94,433	3,061,526	32.4
50-51	0.004214	94,251	397	94,052	2,967,093	31.5
51-52	0.004568	93,853	429	93,639	2,873,041	30.6
52-53	0.004916	93,425	459	93,195	2,779,402	29.8
53-54	0.005250	92,965	488	92,721	2,686,207	28.9
54-55	0.005586	92,477	517	92,219	2,593,486	28.0
55-56	0.005941	91,961	546	91,688	2,501,267	27.2
56-57	0.006342	91,414	580	91,124	2,409,579	26.4
57-58	0.006800	90,835	618	90,526	2,318,455	25.5
58-59	0.007323	90,217	661	89,887	2,227,929	24.7
59-60	0.007904	89,556	708	89,202	2,138,042	23.9
60-61	0.008534	88,848	758	88,469	2,048,840	23.1
61-62	0.009205	88,090	811	87,685	1,960,371	22.3
62-63	0.009929	87,279	867	86,846	1,872,686	21.5
63-64	0.010724	86,413	927	85,949	1,785,840	20.7
64-65	0.011618	85,486	993	84,989	1,699,891	19.9
65-66	0.012664	84,493	1,070	83,958	1,614,901	19.1
66-67	0.013854	83,423	1,156	82,845	1,530,943	18.4
67-68	0.015130	82,267	1,245	81,645	1,448,098	17.6
68-69	0.016462	81,022	1,334	80,355	1,366,454	16.9
69-70	0.017860	79,689	1,423	78,977	1,286,098	16.1
70-71	0.019449	78,265	1,522	77,504	1,207,121	15.4
71-72	0.021289	76,743	1,634	75,926	1,129,617	14.7
72-73	0.023340	75,109	1,753	74,233	1,053,691	14.0
73-74	0.025711	73,356	1,886	72,413	979,458	13.4
74-75	0.028328	71,470	2,025	70,458	907,044	12.7
75-76	0.031008	69,446	2,153	68,369	836,587	12.0
76-77	0.033995	67,292	2,288	66,148	768,218	11.4
77-78	0.037524	65,005	2,439	63,785	702,069	10.8
78-79	0.041536	62,565	2,599	61,266	638,284	10.2
79-80	0.045865	59,967	2,750	58,591	577,018	9.6

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050565	57,216	2,893	55,770	518,427	9.1
81-82	0.055637	54,323	3,022	52,812	462,657	8.5
82-83	0.061591	51,301	3,160	49,721	409,845	8.0
83-84	0.068385	48,141	3,292	46,495	360,124	7.5
84-85	0.075974	44,849	3,407	43,145	313,629	7.0
85-86	0.085354	41,442	3,537	39,673	270,484	6.5
86-87	0.095043	37,904	3,603	36,103	230,811	6.1
87-88	0.105631	34,302	3,623	32,490	194,708	5.7
88-89	0.117157	30,679	3,594	28,881	162,217	5.3
89-90	0.129650	27,084	3,511	25,329	133,336	4.9
90-91	0.143128	23,573	3,374	21,886	108,008	4.6
91-92	0.157597	20,199	3,183	18,607	86,122	4.3
92-93	0.173044	17,016	2,944	15,543	67,514	4.0
93-94	0.189442	14,071	2,666	12,738	51,971	3.7
94-95	0.206744	11,405	2,358	10,226	39,233	3.4
95-96	0.224880	9,047	2,035	8,030	29,006	3.2
96-97	0.243765	7,013	1,709	6,158	20,976	3.0
97-98	0.263290	5,303	1,396	4,605	14,818	2.8
98-99	0.283332	3,907	1,107	3,354	10,213	2.6
99-100	0.303750	2,800	851	2,375	6,859	2.4
100 and over	1.000000	1,950	1,950	4,484	4,484	2.3

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.005824	100,000	582	99,495	7,631,607	76.3
1-2	0.000434	99,418	43	99,396	7,532,112	75.8
2-3	0.000278	99,374	28	99,361	7,432,716	74.8
3-4	0.000235	99,347	23	99,335	7,333,356	73.8
4-5	0.000180	99,324	18	99,315	7,234,021	72.8
5-6	0.000158	99,306	16	99,298	7,134,706	71.8
6-7	0.000141	99,290	14	99,283	7,035,408	70.9
7-8	0.000125	99,276	12	99,270	6,936,125	69.9
8-9	0.000106	99,264	11	99,258	6,836,856	68.9
9-10	0.000085	99,253	8	99,249	6,737,597	67.9
10-11	0.000070	99,245	7	99,241	6,638,348	66.9
11-12	0.000076	99,238	8	99,234	6,539,107	65.9
12-13	0.000116	99,230	12	99,224	6,439,874	64.9
13-14	0.000199	99,219	20	99,209	6,340,649	63.9
14-15	0.000310	99,199	31	99,183	6,241,440	62.9
15-16	0.000426	99,168	42	99,147	6,142,257	61.9
16-17	0.000535	99,126	53	99,099	6,043,110	61.0
17-18	0.000652	99,073	65	99,040	5,944,011	60.0
18-19	0.000778	99,008	77	98,970	5,844,970	59.0
19-20	0.000910	98,931	90	98,886	5,746,001	58.1
20-21	0.001054	98,841	104	98,789	5,647,115	57.1
21-22	0.001191	98,737	118	98,678	5,548,326	56.2
22-23	0.001291	98,619	127	98,556	5,449,648	55.3
23-24	0.001336	98,492	132	98,426	5,351,092	54.3
24-25	0.001340	98,360	132	98,294	5,252,666	53.4
25-26	0.001332	98,229	131	98,163	5,154,371	52.5
26-27	0.001331	98,098	131	98,032	5,056,208	51.5
27-28	0.001333	97,967	131	97,902	4,958,176	50.6
28-29	0.001345	97,837	132	97,771	4,860,274	49.7
29-30	0.001366	97,705	133	97,638	4,762,503	48.7
30-31	0.001393	97,572	136	97,504	4,664,865	47.8
31-32	0.001424	97,436	139	97,366	4,567,361	46.9
32-33	0.001467	97,297	143	97,226	4,469,995	45.9
33-34	0.001504	97,154	146	97,081	4,372,769	45.0
34-35	0.001556	97,008	151	96,933	4,275,688	44.1
35-36	0.001622	96,857	157	96,779	4,178,755	43.1
36-37	0.001705	96,700	165	96,618	4,081,977	42.2
37-38	0.001801	96,535	174	96,448	3,985,359	41.3
38-39	0.001912	96,361	184	96,269	3,888,911	40.4
39-40	0.002045	96,177	197	96,079	3,792,641	39.4

Source: CDC/NCHS, National Vital Statistics System, Mortality



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002194	95,980	211	95,875	3,696,563	38.5
41-42	0.002370	95,770	227	95,656	3,600,687	37.6
42-43	0.002589	95,543	247	95,419	3,505,031	36.7
43-44	0.002849	95,296	272	95,160	3,409,612	35.8
44-45	0.003135	95,024	298	94,875	3,314,452	34.9
45-46	0.003417	94,726	324	94,564	3,219,577	34.0
46-47	0.003703	94,402	350	94,228	3,125,013	33.1
47-48	0.004022	94,053	378	93,864	3,030,785	32.2
48-49	0.004391	93,675	411	93,469	2,936,921	31.4
49-50	0.004805	93,263	448	93,039	2,843,452	30.5
50-51	0.005252	92,815	487	92,571	2,750,413	29.6
51-52	0.005706	92,328	527	92,064	2,657,842	28.8
52-53	0.006159	91,801	565	91,518	2,565,778	27.9
53-54	0.006606	91,235	603	90,934	2,474,259	27.1
54-55	0.007058	90,633	640	90,313	2,383,325	26.3
55-56	0.007542	89,993	679	89,654	2,293,012	25.5
56-57	0.008075	89,314	721	88,954	2,203,359	24.7
57-58	0.008651	88,593	766	88,210	2,114,405	23.9
58-59	0.009268	87,827	814	87,420	2,026,195	23.1
59-60	0.009922	87,013	863	86,581	1,938,775	22.3
60-61	0.010615	86,149	914	85,692	1,852,194	21.5
61-62	0.011360	85,235	968	84,751	1,766,502	20.7
62-63	0.012182	84,267	1,027	83,753	1,681,751	20.0
63-64	0.013119	83,240	1,092	82,694	1,597,997	19.2
64-65	0.014199	82,148	1,166	81,565	1,515,303	18.4
65-66	0.015466	80,982	1,252	80,355	1,433,738	17.7
66-67	0.016899	79,729	1,347	79,056	1,353,383	17.0
67-68	0.018425	78,382	1,444	77,660	1,274,327	16.3
68-69	0.019993	76,938	1,538	76,169	1,196,668	15.6
69-70	0.021613	75,399	1,630	74,585	1,120,499	14.9
70-71	0.023443	73,770	1,729	72,905	1,045,914	14.2
71-72	0.025542	72,040	1,840	71,120	973,009	13.5
72-73	0.027929	70,200	1,961	69,220	901,889	12.8
73-74	0.030757	68,240	2,099	67,190	832,669	12.2
74-75	0.033850	66,141	2,239	65,022	765,478	11.6
75-76	0.037045	63,902	2,367	62,718	700,457	11.0
76-77	0.040601	61,535	2,498	60,286	637,738	10.4
77-78	0.044840	59,036	2,647	57,713	577,453	9.8
78-79	0.049644	56,389	2,799	54,990	519,740	9.2
79-80	0.054785	53,590	2,936	52,122	464,750	8.7

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.060584	50,654	3,069	49,120	412,628	8.1
81-82	0.066834	47,585	3,180	45,995	363,509	7.6
82-83	0.073842	44,405	3,279	42,765	317,514	7.2
83-84	0.081640	41,126	3,357	39,447	274,748	6.7
84-85	0.091137	37,768	3,442	36,047	235,301	6.2
85-86	0.101530	34,326	3,485	32,584	199,254	5.8
86-87	0.112877	30,841	3,481	29,101	166,670	5.4
87-88	0.125210	27,360	3,426	25,647	137,569	5.0
88-89	0.138554	23,934	3,316	22,276	111,922	4.7
89-90	0.152918	20,618	3,153	19,042	89,646	4.3
90-91	0.168296	17,465	2,939	15,995	70,605	4.0
91-92	0.184666	14,526	2,682	13,185	54,609	3.8
92-93	0.201982	11,843	2,392	10,647	41,425	3.5
93-94	0.220180	9,451	2,081	8,411	30,777	3.3
94-95	0.239174	7,370	1,763	6,489	22,367	3.0
95-96	0.258856	5,608	1,452	4,882	15,878	2.8
96-97	0.279101	4,156	1,160	3,576	10,996	2.6
97-98	0.299765	2,996	898	2,547	7,420	2.5
98-99	0.320694	2,098	673	1,762	4,873	2.3
99-100	0.341722	1,425	487	1,182	3,111	2.2
100 and over	1.000000	938	938	1,930	1,930	2.1

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.004769	100,000	477	99,582	8,104,439	81.0
1-2	0.000332	99,523	33	99,507	8,004,857	80.4
2-3	0.000235	99,490	23	99,478	7,905,350	79.5
3-4	0.000170	99,467	17	99,458	7,805,872	78.5
4-5	0.000137	99,450	14	99,443	7,706,413	77.5
5-6	0.000117	99,436	12	99,430	7,606,970	76.5
6-7	0.000103	99,425	10	99,419	7,507,540	75.5
7-8	0.000092	99,414	9	99,410	7,408,121	74.5
8-9	0.000083	99,405	8	99,401	7,308,711	73.5
9-10	0.000076	99,397	8	99,393	7,209,310	72.5
10-11	0.000073	99,389	7	99,386	7,109,917	71.5
11-12	0.000078	99,382	8	99,378	7,010,531	70.5
12-13	0.000099	99,374	10	99,369	6,911,153	69.5
13-14	0.000137	99,364	14	99,358	6,811,784	68.6
14-15	0.000186	99,351	18	99,342	6,712,426	67.6
15-16	0.000239	99,332	24	99,321	6,613,084	66.6
16-17	0.000289	99,309	29	99,294	6,513,764	65.6
17-18	0.000330	99,280	33	99,264	6,414,469	64.6
18-19	0.000359	99,247	36	99,229	6,315,206	63.6
19-20	0.000381	99,212	38	99,193	6,215,976	62.7
20-21	0.000402	99,174	40	99,154	6,116,784	61.7
21-22	0.000426	99,134	42	99,113	6,017,630	60.7
22-23	0.000451	99,092	45	99,069	5,918,517	59.7
23-24	0.000478	99,047	47	99,023	5,819,448	58.8
24-25	0.000506	99,000	50	98,975	5,720,424	57.8
25-26	0.000536	98,950	53	98,923	5,621,450	56.8
26-27	0.000565	98,897	56	98,869	5,522,527	55.8
27-28	0.000595	98,841	59	98,811	5,423,658	54.9
28-29	0.000626	98,782	62	98,751	5,324,847	53.9
29-30	0.000659	98,720	65	98,687	5,226,096	52.9
30-31	0.000700	98,655	69	98,620	5,127,409	52.0
31-32	0.000748	98,586	74	98,549	5,028,788	51.0
32-33	0.000796	98,512	78	98,473	4,930,239	50.0
33-34	0.000836	98,434	82	98,392	4,831,767	49.1
34-35	0.000876	98,351	86	98,308	4,733,374	48.1
35-36	0.000921	98,265	91	98,220	4,635,066	47.2
36-37	0.000979	98,175	96	98,127	4,536,846	46.2
37-38	0.001048	98,079	103	98,027	4,438,719	45.3
38-39	0.001135	97,976	111	97,920	4,340,692	44.3
39-40	0.001239	97,865	121	97,804	4,242,772	43.4

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.001351	97,743	132	97,677	4,144,968	42.4
41-42	0.001477	97,611	144	97,539	4,047,291	41.5
42-43	0.001625	97,467	158	97,388	3,949,751	40.5
43-44	0.001794	97,309	175	97,221	3,852,364	39.6
44-45	0.001973	97,134	192	97,038	3,755,142	38.7
45-46	0.002148	96,942	208	96,838	3,658,104	37.7
46-47	0.002322	96,734	225	96,622	3,561,265	36.8
47-48	0.002508	96,510	242	96,389	3,464,644	35.9
48-49	0.002715	96,268	261	96,137	3,368,255	35.0
49-50	0.002941	96,006	282	95,865	3,272,118	34.1
50-51	0.003192	95,724	306	95,571	3,176,253	33.2
51-52	0.003448	95,418	329	95,254	3,080,682	32.3
52-53	0.003695	95,089	351	94,914	2,985,428	31.4
53-54	0.003924	94,738	372	94,552	2,890,515	30.5
54-55	0.004150	94,366	392	94,170	2,795,963	29.6
55-56	0.004387	93,975	412	93,768	2,701,792	28.8
56-57	0.004666	93,562	437	93,344	2,608,024	27.9
57-58	0.005015	93,126	467	92,892	2,514,680	27.0
58-59	0.005454	92,659	505	92,406	2,421,787	26.1
59-60	0.005969	92,153	550	91,878	2,329,381	25.3
60-61	0.006542	91,603	599	91,304	2,237,503	24.4
61-62	0.007148	91,004	650	90,679	2,146,200	23.6
62-63	0.007785	90,354	703	90,002	2,055,521	22.7
63-64	0.008458	89,650	758	89,271	1,965,519	21.9
64-65	0.009194	88,892	817	88,483	1,876,248	21.1
65-66	0.010055	88,075	886	87,632	1,787,765	20.3
66-67	0.011047	87,189	963	86,707	1,700,133	19.5
67-68	0.012122	86,226	1,045	85,703	1,613,426	18.7
68-69	0.013266	85,181	1,130	84,616	1,527,722	17.9
69-70	0.014490	84,051	1,218	83,442	1,443,107	17.2
70-71	0.015894	82,833	1,317	82,174	1,359,665	16.4
71-72	0.017543	81,516	1,430	80,801	1,277,491	15.7
72-73	0.019354	80,086	1,550	79,311	1,196,690	14.9
73-74	0.021396	78,536	1,680	77,696	1,117,378	14.2
74-75	0.023686	76,856	1,820	75,946	1,039,682	13.5
75-76	0.026022	75,035	1,953	74,059	963,737	12.8
76-77	0.028645	73,083	2,093	72,036	889,678	12.2
77-78	0.031729	70,989	2,252	69,863	817,642	11.5
78-79	0.035271	68,737	2,424	67,525	747,779	10.9
79-80	0.039178	66,312	2,598	65,013	680,254	10.3

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.043303	63,715	2,759	62,335	615,240	9.7
81-82	0.047788	60,955	2,913	59,499	552,905	9.1
82-83	0.053305	58,043	3,094	56,496	493,406	8.5
83-84	0.059794	54,949	3,286	53,306	436,911	8.0
84-85	0.067020	51,663	3,462	49,932	383,605	7.4
85-86	0.075752	48,200	3,651	46,375	333,673	6.9
86-87	0.084964	44,549	3,785	42,657	287,299	6.4
87-88	0.095117	40,764	3,877	38,825	244,642	6.0
88-89	0.106261	36,887	3,920	34,927	205,816	5.6
89-90	0.118441	32,967	3,905	31,015	170,889	5.2
90-91	0.131688	29,062	3,827	27,149	139,875	4.8
91-92	0.146023	25,235	3,685	23,393	112,726	4.5
92-93	0.161447	21,550	3,479	19,811	89,333	4.1
93-94	0.177943	18,071	3,216	16,463	69,522	3.8
94-95	0.195473	14,855	2,904	13,404	53,059	3.6
95-96	0.213973	11,952	2,557	10,673	39,655	3.3
96-97	0.233358	9,394	2,192	8,298	28,982	3.1
97-98	0.253515	7,202	1,826	6,289	20,684	2.9
98-99	0.274311	5,376	1,475	4,639	14,395	2.7
99-100	0.295592	3,901	1,153	3,325	9,756	2.5
100 and over	1.000000	2,748	2,748	6,431	6,431	2.3

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.012368	100,000	1,237	98,919	7,435,449	74.4
1-2	0.000699	98,763	69	98,729	7,336,530	74.3
2-3	0.000455	98,694	45	98,672	7,237,802	73.3
3-4	0.000335	98,649	33	98,633	7,139,130	72.4
4-5	0.000260	98,616	26	98,603	7,040,497	71.4
5-6	0.000241	98,591	24	98,579	6,941,894	70.4
6-7	0.000212	98,567	21	98,556	6,843,315	69.4
7-8	0.000189	98,546	19	98,537	6,744,759	68.4
8-9	0.000167	98,527	16	98,519	6,646,222	67.5
9-10	0.000147	98,511	14	98,504	6,547,703	66.5
10-11	0.000135	98,496	13	98,490	6,449,200	65.5
11-12	0.000144	98,483	14	98,476	6,350,710	64.5
12-13	0.000188	98,469	19	98,460	6,252,234	63.5
13-14	0.000271	98,450	27	98,437	6,153,775	62.5
14-15	0.000378	98,424	37	98,405	6,055,338	61.5
15-16	0.000487	98,386	48	98,362	5,956,933	60.5
16-17	0.000588	98,338	58	98,310	5,858,570	59.6
17-18	0.000694	98,281	68	98,247	5,760,261	58.6
18-19	0.000812	98,212	80	98,173	5,662,014	57.7
19-20	0.000943	98,133	93	98,086	5,563,842	56.7
20-21	0.001097	98,040	108	97,986	5,465,755	55.8
21-22	0.001254	97,933	123	97,871	5,367,769	54.8
22-23	0.001383	97,810	135	97,742	5,269,897	53.9
23-24	0.001459	97,675	142	97,603	5,172,155	53.0
24-25	0.001490	97,532	145	97,459	5,074,552	52.0
25-26	0.001508	97,387	147	97,313	4,977,093	51.1
26-27	0.001537	97,240	149	97,165	4,879,779	50.2
27-28	0.001566	97,090	152	97,014	4,782,614	49.3
28-29	0.001603	96,938	155	96,861	4,685,600	48.3
29-30	0.001649	96,783	160	96,703	4,588,739	47.4
30-31	0.001700	96,623	164	96,541	4,492,036	46.5
31-32	0.001754	96,459	169	96,375	4,395,494	45.6
32-33	0.001842	96,290	177	96,201	4,299,120	44.6
33-34	0.001879	96,113	181	96,022	4,202,918	43.7
34-35	0.001951	95,932	187	95,839	4,106,896	42.8
35-36	0.002033	95,745	195	95,648	4,011,057	41.9
36-37	0.002132	95,550	204	95,448	3,915,410	41.0
37-38	0.002256	95,347	215	95,239	3,819,961	40.1
38-39	0.002412	95,131	229	95,017	3,724,722	39.2
39-40	0.002601	94,902	247	94,779	3,629,706	38.2

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002816	94,655	267	94,522	3,534,927	37.3
41-42	0.003055	94,389	288	94,244	3,440,405	36.4
42-43	0.003323	94,100	313	93,944	3,346,161	35.6
43-44	0.003614	93,787	339	93,618	3,252,217	34.7
44-45	0.003923	93,449	367	93,265	3,158,599	33.8
45-46	0.004231	93,082	394	92,885	3,065,334	32.9
46-47	0.004560	92,688	423	92,477	2,972,449	32.1
47-48	0.004956	92,265	457	92,037	2,879,972	31.2
48-49	0.005445	91,808	500	91,558	2,787,936	30.4
49-50	0.006017	91,308	549	91,033	2,696,377	29.5
50-51	0.006630	90,759	602	90,458	2,605,344	28.7
51-52	0.007254	90,157	654	89,830	2,514,886	27.9
52-53	0.007908	89,503	708	89,149	2,425,056	27.1
53-54	0.008590	88,795	763	88,414	2,335,907	26.3
54-55	0.009306	88,033	819	87,623	2,247,493	25.5
55-56	0.010093	87,213	880	86,773	2,159,870	24.8
56-57	0.010933	86,333	944	85,861	2,073,097	24.0
57-58	0.011768	85,389	1,005	84,887	1,987,236	23.3
58-59	0.012565	84,384	1,060	83,854	1,902,349	22.5
59-60	0.013346	83,324	1,112	82,768	1,818,495	21.8
60-61	0.014184	82,212	1,166	81,629	1,735,727	21.1
61-62	0.015120	81,046	1,225	80,433	1,654,098	20.4
62-63	0.016113	79,820	1,286	79,177	1,573,665	19.7
63-64	0.017157	78,534	1,347	77,861	1,494,487	19.0
64-65	0.018259	77,187	1,409	76,482	1,416,627	18.4
65-66	0.019450	75,777	1,474	75,041	1,340,145	17.7
66-67	0.020775	74,304	1,544	73,532	1,265,104	17.0
67-68	0.022210	72,760	1,616	71,952	1,191,572	16.4
68-69	0.023774	71,144	1,691	70,298	1,119,620	15.7
69-70	0.025440	69,453	1,767	68,569	1,049,322	15.1
70-71	0.027213	67,686	1,842	66,765	980,753	14.5
71-72	0.029170	65,844	1,921	64,883	913,988	13.9
72-73	0.031193	63,923	1,994	62,926	849,105	13.3
73-74	0.033564	61,929	2,079	60,890	786,178	12.7
74-75	0.036326	59,851	2,174	58,764	725,289	12.1
75-76	0.039361	57,677	2,270	56,541	666,525	11.6
76-77	0.042542	55,406	2,357	54,228	609,984	11.0
77-78	0.045757	53,049	2,427	51,836	555,756	10.5
78-79	0.049808	50,622	2,521	49,361	503,920	10.0
79-80	0.054603	48,101	2,626	46,787	454,559	9.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.059019	45,474	2,684	44,132	407,772	9.0
81-82	0.063861	42,790	2,733	41,424	363,640	8.5
82-83	0.070350	40,058	2,818	38,649	322,216	8.0
83-84	0.076626	37,240	2,854	35,813	283,567	7.6
84-85	0.082685	34,386	2,843	32,964	247,754	7.2
85-86	0.089846	31,543	2,834	30,126	214,790	6.8
86-87	0.097523	28,709	2,800	27,309	184,664	6.4
87-88	0.105735	25,909	2,740	24,539	157,355	6.1
88-89	0.114501	23,170	2,653	21,843	132,816	5.7
89-90	0.123832	20,517	2,541	19,246	110,973	5.4
90-91	0.133740	17,976	2,404	16,774	91,726	5.1
91-92	0.144230	15,572	2,246	14,449	74,952	4.8
92-93	0.155303	13,326	2,070	12,291	60,503	4.5
93-94	0.166954	11,256	1,879	10,317	48,212	4.3
94-95	0.179173	9,377	1,680	8,537	37,895	4.0
95-96	0.191943	7,697	1,477	6,958	29,358	3.8
96-97	0.205240	6,220	1,277	5,581	22,400	3.6
97-98	0.219033	4,943	1,083	4,402	16,819	3.4
98-99	0.233285	3,860	901	3,410	12,417	3.2
99-100	0.247950	2,960	734	2,593	9,007	3.0
100 and over	1.000000	2,226	2,226	6,414	6,414	2.9



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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.013788	100,000	1,379	98,791	7,097,077	71.0
1-2	0.000708	98,621	70	98,586	6,998,286	71.0
2-3	0.000521	98,551	51	98,526	6,899,699	70.0
3-4	0.000340	98,500	34	98,483	6,801,174	69.0
4-5	0.000255	98,467	25	98,454	6,702,691	68.1
5-6	0.000259	98,441	25	98,429	6,604,237	67.1
6-7	0.000235	98,416	23	98,404	6,505,808	66.1
7-8	0.000213	98,393	21	98,382	6,407,403	65.1
8-9	0.000182	98,372	18	98,363	6,309,021	64.1
9-10	0.000145	98,354	14	98,347	6,210,658	63.1
10-11	0.000117	98,340	12	98,334	6,112,311	62.2
11-12	0.000123	98,328	12	98,322	6,013,977	61.2
12-13	0.000191	98,316	19	98,307	5,915,655	60.2
13-14	0.000331	98,297	33	98,281	5,817,348	59.2
14-15	0.000514	98,265	51	98,239	5,719,067	58.2
15-16	0.000698	98,214	69	98,180	5,620,828	57.2
16-17	0.000866	98,146	85	98,103	5,522,648	56.3
17-18	0.001037	98,061	102	98,010	5,424,545	55.3
18-19	0.001223	97,959	120	97,899	5,326,535	54.4
19-20	0.001429	97,839	140	97,769	5,228,636	53.4
20-21	0.001671	97,699	163	97,618	5,130,867	52.5
21-22	0.001919	97,536	187	97,443	5,033,249	51.6
22-23	0.002119	97,349	206	97,246	4,935,806	50.7
23-24	0.002226	97,143	216	97,035	4,838,560	49.8
24-25	0.002254	96,926	218	96,817	4,741,526	48.9
25-26	0.002256	96,708	218	96,599	4,644,708	48.0
26-27	0.002272	96,490	219	96,380	4,548,109	47.1
27-28	0.002289	96,271	220	96,160	4,451,729	46.2
28-29	0.002321	96,050	223	95,939	4,355,569	45.3
29-30	0.002366	95,827	227	95,714	4,259,630	44.5
30-31	0.002413	95,601	231	95,485	4,163,916	43.6
31-32	0.002458	95,370	234	95,253	4,068,431	42.7
32-33	0.002562	95,136	244	95,014	3,973,178	41.8
33-34	0.002563	94,892	243	94,770	3,878,164	40.9
34-35	0.002628	94,649	249	94,524	3,783,394	40.0
35-36	0.002706	94,400	255	94,272	3,688,870	39.1
36-37	0.002804	94,144	264	94,012	3,594,598	38.2
37-38	0.002929	93,880	275	93,743	3,500,586	37.3
38-39	0.003090	93,605	289	93,461	3,406,843	36.4
39-40	0.003289	93,316	307	93,163	3,313,382	35.5

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.003524	93,009	328	92,845	3,220,219	34.6
41-42	0.003790	92,681	351	92,506	3,127,374	33.7
42-43	0.004085	92,330	377	92,142	3,034,868	32.9
43-44	0.004401	91,953	405	91,751	2,942,726	32.0
44-45	0.004740	91,548	434	91,331	2,850,976	31.1
45-46	0.005077	91,115	463	90,883	2,759,644	30.3
46-47	0.005455	90,652	494	90,405	2,668,761	29.4
47-48	0.005941	90,157	536	89,890	2,578,356	28.6
48-49	0.006577	89,622	589	89,327	2,488,467	27.8
49-50	0.007342	89,032	654	88,705	2,399,140	26.9
50-51	0.008165	88,379	722	88,018	2,310,434	26.1
51-52	0.009003	87,657	789	87,262	2,222,416	25.4
52-53	0.009901	86,868	860	86,438	2,135,154	24.6
53-54	0.010867	86,008	935	85,540	2,048,716	23.8
54-55	0.011905	85,073	1,013	84,567	1,963,176	23.1
55-56	0.013066	84,060	1,098	83,511	1,878,609	22.3
56-57	0.014301	82,962	1,186	82,369	1,795,098	21.6
57-58	0.015493	81,775	1,267	81,142	1,712,729	20.9
58-59	0.016560	80,509	1,333	79,842	1,631,587	20.3
59-60	0.017535	79,175	1,388	78,481	1,551,745	19.6
60-61	0.018546	77,787	1,443	77,066	1,473,264	18.9
61-62	0.019684	76,344	1,503	75,593	1,396,199	18.3
62-63	0.020896	74,842	1,564	74,060	1,320,606	17.6
63-64	0.022195	73,278	1,626	72,465	1,246,546	17.0
64-65	0.023589	71,651	1,690	70,806	1,174,082	16.4
65-66	0.025100	69,961	1,756	69,083	1,103,275	15.8
66-67	0.026766	68,205	1,826	67,292	1,034,192	15.2
67-68	0.028496	66,380	1,892	65,434	966,900	14.6
68-69	0.030381	64,488	1,959	63,508	901,466	14.0
69-70	0.032413	62,529	2,027	61,515	837,958	13.4
70-71	0.034364	60,502	2,079	59,463	776,442	12.8
71-72	0.036492	58,423	2,132	57,357	716,980	12.3
72-73	0.038927	56,291	2,191	55,195	659,623	11.7
73-74	0.041983	54,100	2,271	52,964	604,427	11.2
74-75	0.045441	51,829	2,355	50,651	551,463	10.6
75-76	0.049318	49,473	2,440	48,253	500,812	10.1
76-77	0.053892	47,033	2,535	45,766	452,559	9.6
77-78	0.058132	44,499	2,587	43,205	406,793	9.1
78-79	0.063053	41,912	2,643	40,591	363,588	8.7
79-80	0.068862	39,269	2,704	37,917	322,997	8.2

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.073806	36,565	2,699	35,216	285,080	7.8
81-82	0.079387	33,866	2,689	32,522	249,864	7.4
82-83	0.086680	31,178	2,702	29,827	217,342	7.0
83-84	0.094161	28,475	2,681	27,135	187,516	6.6
84-85	0.102174	25,794	2,635	24,476	160,381	6.2
85-86	0.110737	23,159	2,565	21,876	135,905	5.9
86-87	0.119866	20,594	2,469	19,360	114,028	5.5
87-88	0.129571	18,126	2,349	16,951	94,668	5.2
88-89	0.139861	15,777	2,207	14,674	77,717	4.9
89-90	0.150739	13,570	2,046	12,548	63,044	4.6
90-91	0.162203	11,525	1,869	10,590	50,496	4.4
91-92	0.174244	9,655	1,682	8,814	39,906	4.1
92-93	0.186848	7,973	1,490	7,228	31,092	3.9
93-94	0.199993	6,483	1,297	5,835	23,863	3.7
94-95	0.213651	5,187	1,108	4,633	18,028	3.5
95-96	0.227787	4,079	929	3,614	13,396	3.3
96-97	0.242357	3,150	763	2,768	9,782	3.1
97-98	0.257314	2,386	614	2,079	7,014	2.9
98-99	0.272600	1,772	483	1,531	4,935	2.8
99-100	0.288155	1,289	371	1,103	3,404	2.6
100 and over	1.000000	918	918	2,301	2,301	2.5

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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	0.010898	100,000	1,090	99,052	7,744,364	77.4
1-2	0.000663	98,910	66	98,877	7,645,312	77.3
2-3	0.000368	98,845	36	98,826	7,546,435	76.3
3-4	0.000316	98,808	31	98,793	7,447,608	75.4
4-5	0.000255	98,777	25	98,764	7,348,816	74.4
5-6	0.000213	98,752	21	98,741	7,250,051	73.4
6-7	0.000181	98,731	18	98,722	7,151,310	72.4
7-8	0.000159	98,713	16	98,705	7,052,588	71.4
8-9	0.000146	98,697	14	98,690	6,953,883	70.5
9-10	0.000141	98,683	14	98,676	6,855,193	69.5
10-11	0.000143	98,669	14	98,662	6,756,517	68.5
11-12	0.000155	98,655	15	98,647	6,657,855	67.5
12-13	0.000174	98,640	17	98,631	6,559,208	66.5
13-14	0.000200	98,622	20	98,613	6,460,577	65.5
14-15	0.000232	98,603	23	98,591	6,361,964	64.5
15-16	0.000265	98,580	26	98,567	6,263,373	63.5
16-17	0.000299	98,554	29	98,539	6,164,806	62.6
17-18	0.000340	98,524	33	98,507	6,066,267	61.6
18-19	0.000390	98,491	38	98,472	5,967,760	60.6
19-20	0.000449	98,452	44	98,430	5,869,288	59.6
20-21	0.000520	98,408	51	98,383	5,770,858	58.6
21-22	0.000593	98,357	58	98,328	5,672,476	57.7
22-23	0.000662	98,299	65	98,266	5,574,148	56.7
23-24	0.000718	98,234	70	98,198	5,475,882	55.7
24-25	0.000761	98,163	75	98,126	5,377,683	54.8
25-26	0.000805	98,088	79	98,049	5,279,558	53.8
26-27	0.000855	98,009	84	97,968	5,181,509	52.9
27-28	0.000903	97,926	88	97,881	5,083,541	51.9
28-29	0.000950	97,837	93	97,791	4,985,660	51.0
29-30	0.001000	97,744	98	97,695	4,887,869	50.0
30-31	0.001057	97,646	103	97,595	4,790,174	49.1
31-32	0.001122	97,543	109	97,489	4,692,579	48.1
32-33	0.001205	97,434	117	97,375	4,595,090	47.2
33-34	0.001268	97,316	123	97,255	4,497,715	46.2
34-35	0.001348	97,193	131	97,128	4,400,460	45.3
35-36	0.001436	97,062	139	96,992	4,303,333	44.3
36-37	0.001538	96,923	149	96,848	4,206,341	43.4
37-38	0.001661	96,774	161	96,693	4,109,492	42.5
38-39	0.001811	96,613	175	96,525	4,012,799	41.5
39-40	0.001989	96,438	192	96,342	3,916,274	40.6

Source: CDC/NCHS, National Vital Statistics System, Mortality

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Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
40-41	0.002185	96,246	210	96,141	3,819,932	39.7
41-42	0.002398	96,036	230	95,921	3,723,791	38.8
42-43	0.002642	95,805	253	95,679	3,627,870	37.9
43-44	0.002911	95,552	278	95,413	3,532,191	37.0
44-45	0.003195	95,274	304	95,122	3,436,778	36.1
45-46	0.003478	94,970	330	94,805	3,341,656	35.2
46-47	0.003767	94,640	356	94,461	3,246,851	34.3
47-48	0.004084	94,283	385	94,091	3,152,390	33.4
48-49	0.004446	93,898	418	93,689	3,058,299	32.6
49-50	0.004850	93,481	453	93,254	2,964,610	31.7
50-51	0.005281	93,027	491	92,782	2,871,356	30.9
51-52	0.005721	92,536	529	92,271	2,778,575	30.0
52-53	0.006166	92,006	567	91,723	2,686,304	29.2
53-54	0.006610	91,439	604	91,137	2,594,581	28.4
54-55	0.007062	90,835	641	90,514	2,503,444	27.6
55-56	0.007547	90,193	681	89,853	2,412,930	26.8
56-57	0.008075	89,513	723	89,151	2,323,077	26.0
57-58	0.008634	88,790	767	88,406	2,233,926	25.2
58-59	0.009226	88,023	812	87,617	2,145,519	24.4
59-60	0.009863	87,211	860	86,781	2,057,902	23.6
60-61	0.010575	86,351	913	85,894	1,971,121	22.8
61-62	0.011368	85,438	971	84,952	1,885,227	22.1
62-63	0.012210	84,467	1,031	83,951	1,800,274	21.3
63-64	0.013083	83,435	1,092	82,889	1,716,323	20.6
64-65	0.013994	82,344	1,152	81,767	1,633,434	19.8
65-66	0.014985	81,191	1,217	80,583	1,551,667	19.1
66-67	0.016094	79,975	1,287	79,331	1,471,084	18.4
67-68	0.017358	78,688	1,366	78,005	1,391,753	17.7
68-69	0.018735	77,322	1,449	76,597	1,313,748	17.0
69-70	0.020178	75,873	1,531	75,108	1,237,151	16.3
70-71	0.021875	74,342	1,626	73,529	1,162,043	15.6
71-72	0.023772	72,716	1,729	71,852	1,088,514	15.0
72-73	0.025581	70,987	1,816	70,079	1,016,662	14.3
73-74	0.027587	69,171	1,908	68,217	946,583	13.7
74-75	0.030003	67,263	2,018	66,254	878,366	13.1
75-76	0.032646	65,245	2,130	64,180	812,112	12.4
76-77	0.035094	63,115	2,215	62,008	747,932	11.9
77-78	0.037891	60,900	2,308	59,746	685,924	11.3
78-79	0.041667	58,593	2,441	57,372	626,178	10.7
79-80	0.046103	56,151	2,589	54,857	568,806	10.1

Source: CDC/NCHS, National Vital Statistics System, Mortality

Spreadsheet version available from: [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Publications/NVSR/62\\_07/](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/NVSR/62_07/)**Table 18. Life table for non-Hispanic black females: United States, 2009**

Age	Probability of dying between ages x to x+1	Number surviving to age x	Number dying between ages x to x+1	Person-years lived between ages x to 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)
80-81	0.050539	53,562	2,707	52,209	513,949	9.6
81-82	0.055294	50,855	2,812	49,449	461,740	9.1
82-83	0.061383	48,043	2,949	46,569	412,291	8.6
83-84	0.067283	45,094	3,034	43,577	365,722	8.1
84-85	0.072317	42,060	3,042	40,539	322,144	7.7
85-86	0.079316	39,019	3,095	37,471	281,605	7.2
86-87	0.086894	35,924	3,122	34,363	244,134	6.8
87-88	0.095078	32,802	3,119	31,243	209,771	6.4
88-89	0.103895	29,684	3,084	28,142	178,528	6.0
89-90	0.113367	26,600	3,016	25,092	150,386	5.7
90-91	0.123514	23,584	2,913	22,128	125,294	5.3
91-92	0.134348	20,671	2,777	19,283	103,167	5.0
92-93	0.145877	17,894	2,610	16,589	83,884	4.7
93-94	0.158102	15,284	2,416	14,075	67,295	4.4
94-95	0.171014	12,867	2,200	11,767	53,220	4.1
95-96	0.184599	10,667	1,969	9,682	41,453	3.9
96-97	0.198830	8,698	1,729	7,833	31,771	3.7
97-98	0.213671	6,968	1,489	6,224	23,938	3.4
98-99	0.229078	5,479	1,255	4,852	17,714	3.2
99-100	0.244995	4,224	1,035	3,707	12,862	3.0
100 and over	1.000000	3,189	3,189	9,155	9,155	2.9