
Abridged Life Tables for Japan 2016

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Table A. Abridged Life Tables for Japan, 2016

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I . Life expectancies at specified ages

In the abridged life tables 2016, life expectancy at birth was 80.98 years for males, increasing by 0.23 from 80.75 in 2015, and 87.14 for females, increasing by 0.15 from 86.99.

The difference in life expectancy at birth between males and females was 6.16 years, decreasing by 0.08 years from 2015 to 2016.

Life expectancies at specified ages increased for both males and females from 2015 to 2016.

Table 1. Life expectancies at specified ages

Age	Male			Female		
	2016	2015	Increase	2016	2015	Increase
0	80.98	80.75	0.23	87.14	86.99	0.15
5	76.20	75.98	0.22	82.37	82.20	0.17
10	71.23	71.02	0.21	77.39	77.23	0.16
15	66.26	66.05	0.21	72.42	72.26	0.16
20	61.34	61.13	0.21	67.46	67.31	0.15
25	56.49	56.28	0.21	62.53	62.37	0.16
30	51.63	51.43	0.20	57.61	57.45	0.16
35	46.78	46.58	0.20	52.69	52.55	0.14
40	41.96	41.77	0.19	47.82	47.67	0.15
45	37.20	37.01	0.19	42.98	42.83	0.15
50	32.54	32.36	0.18	38.21	38.07	0.14
55	28.02	27.85	0.17	33.53	33.38	0.15
60	23.67	23.51	0.16	28.91	28.77	0.14
65	19.55	19.41	0.14	24.38	24.24	0.14
70	15.72	15.59	0.13	19.98	19.85	0.13
75	12.14	12.03	0.11	15.76	15.64	0.12
80	8.92	8.83	0.09	11.82	11.71	0.11
85	6.27	6.22	0.05	8.39	8.30	0.09
90	4.28	4.27	0.01	5.62	5.56	0.06

Notes: 1. Data of 2015 were based on complete life tables.

Table 2. Trend of life expectancies at birth

Year	Male	Female	Difference
1947	50.06	53.96	3.90
1950-1952	59.57	62.97	3.40
1955	63.60	67.75	4.15
1960	65.32	70.19	4.87
1965	67.74	72.92	5.18
1970	69.31	74.66	5.35
1975	71.73	76.89	5.16
1980	73.35	78.76	5.41
1985	74.78	80.48	5.70
1990	75.92	81.90	5.98
1995	76.38	82.85	6.47
2000	77.72	84.60	6.88
2005	78.56	85.52	6.96
2010	79.55	86.30	6.75
2015	80.75	86.99	6.24
2016	80.98	87.14	6.16

Notes: 1. Data of 1947-2015 were based on complete life tables.

2. Before 1970, data of Okinawa prefecture were not included.

II. Survivorship in the life tables

In the abridged life tables 2016, the number of survivors at age 65 was 89,083 for males per 100,000 hypothetical cohort and 94,301 for females. This means that the survival rate at age 65 was 89.1% for males and 94.3% for females. In the same way, it followed that the survival rate at age 75 was 75.1% for males and 87.8% for females, and the survival rate at age 90 was 25.6% for males and 49.9% for females.

The median length of life, which means the age when exactly half of the cohort remains alive, was 83.98 years for males and 89.97 years for females, which was 3.00 years longer than the life expectancy for males and 2.83 years for females.

Table 3. Trend of survival rate at specified ages

(%)

Year	Male					Female				
	Age 40	65	75	90	95	Age 40	65	75	90	95
1947	68.0	39.8	18.5	0.9	0.1	70.9	49.1	29.0	2.0	0.2
1950-1952	81.8	55.1	29.4	2.0	0.3	83.2	62.8	40.5	4.0	0.6
1955	87.0	61.8	34.6	2.7	0.5	89.0	70.6	47.6	6.2	1.3
1960	89.7	64.8	36.1	2.3	0.4	92.2	75.2	51.5	6.0	1.2
1965	92.6	69.1	39.9	2.3	0.3	95.0	80.0	57.1	6.5	1.2
1970	93.7	72.1	43.5	3.5	0.6	96.1	82.6	61.2	8.6	1.9
1975	95.1	76.8	51.0	5.4	1.1	96.9	86.1	67.8	12.0	2.9
1980	96.1	79.4	55.7	7.1	1.5	97.6	88.5	72.7	16.0	4.2
1985	96.7	81.1	60.2	9.4	2.2	98.0	90.1	76.9	21.2	6.4
1990	97.1	82.6	63.0	11.6	3.0	98.3	91.3	79.8	26.3	9.0
1995	97.2	83.3	63.8	12.8	3.4	98.4	91.6	81.2	30.9	11.9
2000	97.5	84.7	66.7	17.3	5.7	98.6	92.6	83.7	38.8	17.7
2005	97.7	85.7	69.3	19.3	6.5	98.7	93.1	85.1	42.7	20.8
2010	97.9	87.0	72.2	21.5	7.3	98.8	93.6	86.5	46.2	22.8
2015	98.2	88.8	74.6	24.9	8.6	99.0	94.2	87.7	49.1	24.5
2016	98.3	89.1	75.1	25.6	9.1	99.0	94.3	87.8	49.9	25.2

Notes: 1. Data of 1947-2015 were based on complete life tables.

2. Before 1970, data of Okinawa prefecture were not included.

Table 4. Trend of the median length of life and life expectancy at birth

(years)

Year	Male			Female		
	median length of life	life expectancy at birth	difference	median length of life	life expectancy at birth	difference
1947	59.28	50.06	9.22	64.45	53.96	10.49
1950-1952	67.22	59.57	7.65	71.31	62.97	8.34
1955	69.79	63.60	6.19	74.19	67.75	6.44
1960	70.66	65.32	5.34	75.44	70.19	5.25
1965	72.00	67.74	4.26	77.04	72.92	4.12
1970	73.10	69.31	3.79	78.19	74.66	3.53
1975	75.31	71.73	3.58	80.17	76.89	3.28
1980	76.69	73.35	3.34	81.75	78.76	2.99
1985	78.06	74.78	3.28	83.38	80.48	2.90
1990	79.13	75.92	3.21	84.71	81.90	2.81
1995	79.49	76.38	3.11	85.73	82.85	2.88
2000	80.74	77.72	3.02	87.41	84.60	2.81
2005	81.56	78.56	3.00	88.34	85.52	2.82
2010	82.60	79.55	3.05	89.17	86.30	2.87
2015	83.76	80.75	3.01	89.79	86.99	2.80
2016	83.98	80.98	3.00	89.97	87.14	2.83

Notes: 1. Data of 1947-2015 were based on complete life tables.

2. Before 1970, data of Okinawa prefecture were not included.

III. Life expectancies at birth in some countries

In general, it is rather difficult to compare life expectancies accurately among different countries. One of the reasons is the periods based on are not always accordant with each other.

Next table provides the life expectancies at birth in some countries as far as we have obtained.

Table 5. Life expectancies at birth in some countries

(Life expectancy : years, Population : 10 thousands)

Country	Period	Male	Female	Population	
Japan	2016*	80.98	87.14	12 502	
AFRICA	Algeria	2015	76.4	77.8	3 996
	Egypt	2016*	70.5	73.3	8 896
	South Africa	2009	53.5	57.2	5 400
	Tunisia	2015*	74.5	77.8	1 115
NORTH AMERICA	Canada	2010 – 2012*	79.4	83.6	3 585
	Costa Rica	2015	77.37	82.42	483
	Cuba	2011 – 2013	76.50	80.45	1 124
	Mexico	2014	72.05	77.55	12 101
United States	2014*	76.4	81.2	32 142	
SOUTH AMERICA	Argentina	2008 – 2010	72.08	78.81	4 314
	Brazil	2015*	71.9	79.1	20 445
	Chile	2013	76.25	81.44	1 801
	Colombia	2010 – 2015	72.07	78.54	4 820
Peru	2010 – 2015	71.54	76.84	3 115	
ASIA	Bangladesh	2013	68.8	71.4	15 688
	China	2015*	73.64	79.43	137 122
	Cyprus	2014	80.9	84.7	85
	India	2011–2015*	66.9	70.0	121 337
	Iran	2011	71.5	74.0	7 877
	Israel	2014*	80.3	84.1	822
	Malaysia	2016*	72.6	77.2	3 100
	Pakistan	2007	63.55	67.62	19 171
	Qatar	2011	76.47	80.95	222
	Republic of Korea	2015*	79.0	85.2	5 062
	Singapore	2016*	80.6	85.1	554
	Thailand	2015*	71.6	78.4	6 861
	Turkey	2014	75.29	80.73	7 774
EUROPE	Austria	2016*	79.14	83.95	858
	Belgium	2014*	78.6	83.5	1 126
	Czech Republic	2016*	76.22	82.05	1 054
	Denmark	2015 – 2016*	78.8	82.8	568
	Finland	2016*	78.4	84.1	547
	France	2016*	79.3	85.4	6 440
	Germany	2013 – 2015*	78.18	83.06	8 120
	Greece	2014	78.45	83.51	1 086
	Iceland	2016*	80.7	83.7	33
	Italy	2015*	80.115	84.606	6 080
	Netherlands	2016*	79.9	83.2	1 694
	Norway	2016*	80.61	84.17	517
	Poland	2016*	73.9	81.9	3 801
	Russian Federation	2014*	65.29	76.47	14 351
	Spain	2015*	79.93	85.42	4 645
	Sweden	2016*	80.56	84.09	975
	Switzerland	2015*	80.7	84.9	824
Ukraine	2013	66.34	76.22	4 276	
United Kingdom	2013 – 2015*	79.09	82.82	6 488	
OCEANIA	Australia	2013 – 2015*	80.4	84.5	2 378
	New Zealand	2014 – 2016*	79.91	83.40	460

Reference: *In Hong Kong of 2016, life expectancy at birth for males was 81.32 years and that for females was 87.34 years.
(Population: 731 ten thousands)

Note: Population in this table means mid-year estimated population in 2015 (in cases of South Africa, Bangladesh, Israel, Qatar and Thailand 2014, Russian Federation 2013, India 2012).

On the other hand, population of Japan was estimated population at Oct.1, 2016.

Source: Demographic Yearbook 2015 U.N.

*Data offered from the government concerned.

IV. Analysis by cause of death

1. Mortality probability by cause of death

Mortality probability by cause of death means the probability that a person of a given age will die from a specific cause of death in the future according to the life tables.

As for leading causes of death in 2016, the mortality probability by malignant neoplasms was the highest for both males and females at age 0, followed by heart diseases, pneumonia and cerebrovascular diseases. Comparing data between age 0 and 65, the mortality probability was lower at age 65 than at age 0 for malignant neoplasms. And for the other three leading causes it was higher at age 65. This trend was more likely observed at age 75. On the other hand, for cerebrovascular diseases, the mortality probability was lower at age 90 than at age 75 for both males and females.

The total of the mortality probabilities by malignant neoplasms, heart diseases and cerebrovascular diseases was over 50 percent at age 0 and 65 for male, however under 50 percent at all the ages for females.

Table 6. Mortality probability by causes of death, 2016

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	29.14	20.35	28.72	18.59	25.49	16.39	15.53	9.80
Heart diseases	14.21	17.12	14.29	17.74	14.58	18.23	16.25	19.03
Cerebrovascular diseases	7.79	8.98	7.87	9.14	8.05	9.31	7.52	9.17
Pneumonia	11.08	9.07	12.13	9.51	13.37	9.93	16.34	10.86
Accidents	3.16	2.39	2.82	2.31	2.80	2.26	2.53	1.85
Traffic accidents(regrouped)	0.47	0.20	0.26	0.15	0.21	0.12	0.09	0.03
Suicide	1.82	0.80	0.58	0.33	0.41	0.21	0.19	0.06
Chronic obstructive pulmonary disease	1.99	0.47	2.19	0.49	2.36	0.50	2.26	0.44
Renal failure	1.98	1.99	2.13	2.07	2.30	2.14	2.59	2.10
Aortic aneurysm and dissection	1.30	1.28	1.27	1.31	1.24	1.26	1.01	0.91
Diseases of liver	1.23	0.74	0.88	0.65	0.67	0.58	0.31	0.29
Diabetes mellitus	0.98	0.92	0.95	0.93	0.89	0.92	0.61	0.73
Hypertensive diseases	0.45	0.74	0.46	0.78	0.49	0.82	0.68	1.02
Tuberculosis	0.19	0.12	0.20	0.12	0.22	0.13	0.28	0.12
Senility	5.15	14.20	5.78	15.06	6.78	16.13	13.48	23.35
Malignant neoplasms, heart diseases and cerebrovascular diseases (regrouped)	51.15	46.45	50.89	45.47	48.12	43.93	39.30	38.00

2. Potential years of life lost

If a certain cause of death was eliminated, a person who had died from the cause would die from another cause after he or she originally had died. As a result, life expectancy would be extended. This extended period of life time, which is called the potential years of life lost, can be regarded as one's life lost by the cause of death, and it enables us to estimate how much the cause affects life expectancy.

In 2016, the potential years of life lost by malignant neoplasms were the longest at age 0 for both males and females, followed by heart diseases, pneumonia and cerebrovascular diseases for males, and, heart diseases, cerebrovascular diseases and pneumonia for females. The order was also the same at age 65. In the same way, the order of the four causes at age 75 was malignant neoplasms, heart diseases, pneumonia and cerebrovascular diseases for males, and malignant neoplasms, heart diseases, then cerebrovascular diseases and pneumonia at the same year for females. However, some causes changed ranks at age 90: heart diseases and pneumonia at the same year, malignant neoplasms and cerebrovascular diseases for males, and heart diseases, pneumonia, malignant neoplasms and cerebrovascular diseases for females.

Potential years of life lost by malignant neoplasms, heart diseases and cerebrovascular diseases was 6.95 years for males and 5.74 years for females at age 0, 5.61 years for males and 4.60 years for females at age 65, 4.18 years for males and 3.78 years for females at age 75, 1.76 years for males and 1.95 years for females at age 90.

Table 7. Potential years of life lost, 2016

Cause of death	(years)							
	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.71	2.91	2.96	1.99	1.99	1.38	0.57	0.42
Heart diseases	1.42	1.33	1.09	1.26	0.91	1.19	0.58	0.82
Cerebrovascular diseases	0.76	0.73	0.60	0.64	0.50	0.59	0.25	0.37
Pneumonia	0.79	0.60	0.79	0.60	0.78	0.59	0.58	0.43
Accidents	0.44	0.27	0.22	0.18	0.17	0.15	0.08	0.07
Traffic accidents(regrouped)	0.13	0.05	0.03	0.02	0.02	0.01	0.00	0.00
Suicide	0.58	0.27	0.06	0.04	0.03	0.02	0.01	0.00
Chronic obstructive pulmonary disease	0.14	0.04	0.15	0.03	0.14	0.03	0.07	0.02
Renal failure	0.14	0.14	0.14	0.14	0.13	0.13	0.08	0.08
Aortic aneurysm and dissection	0.14	0.12	0.10	0.11	0.08	0.09	0.03	0.04
Diseases of liver	0.21	0.11	0.09	0.07	0.05	0.05	0.01	0.01
Diabetes mellitus	0.11	0.08	0.08	0.07	0.06	0.06	0.02	0.03
Hypertensive diseases	0.04	0.04	0.03	0.04	0.02	0.04	0.02	0.04
Tuberculosis	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Malignant neoplasms, heart diseases and cerebrovascular diseases	6.95	5.74	5.61	4.60	4.18	3.78	1.76	1.95

Table A. Abridged Life Tables for Japan, 2016

Male

age x	probability of dying nq_x	number of survivors l_x	number of deaths nd_x	stationary population		life expectancy e_x
				number of person-years nL_x	total person-years T_x	
0 (W)	0.00069	100 000	69	1 917	8 097 832	80.98
1	0.00010	99 931	10	1 916	8 095 915	81.01
2	0.00005	99 921	5	1 916	8 093 998	81.00
3	0.00005	99 916	5	1 916	8 092 082	80.99
4	0.00022	99 911	22	8 986	8 090 166	80.97
2 (M)	0.00014	99 889	14	8 323	8 081 180	80.90
3	0.00032	99 874	32	24 964	8 072 856	80.83
6	0.00036	99 842	36	49 911	8 047 892	80.61
0 (Y)	0.00194	100 000	194	99 851	8 097 832	80.98
1	0.00031	99 806	31	99 789	7 997 981	80.14
2	0.00021	99 775	21	99 765	7 898 191	79.16
3	0.00014	99 754	14	99 747	7 798 426	78.18
4	0.00010	99 740	10	99 735	7 698 680	77.19
5	0.00009	99 730	9	99 725	7 598 945	76.20
6	0.00009	99 721	9	99 716	7 499 219	75.20
7	0.00008	99 712	8	99 707	7 399 503	74.21
8	0.00007	99 703	7	99 699	7 299 796	73.22
9	0.00007	99 696	7	99 692	7 200 096	72.22
10	0.00007	99 689	7	99 686	7 100 404	71.23
11	0.00007	99 682	7	99 679	7 000 718	70.23
12	0.00008	99 675	8	99 671	6 901 039	69.24
13	0.00010	99 667	10	99 663	6 801 368	68.24
14	0.00013	99 657	13	99 651	6 701 705	67.25
15	0.00017	99 644	17	99 636	6 602 054	66.26
16	0.00021	99 628	21	99 618	6 502 418	65.27
17	0.00026	99 607	26	99 594	6 402 800	64.28
18	0.00031	99 581	31	99 566	6 303 206	63.30
19	0.00038	99 550	38	99 532	6 203 640	62.32
20	0.00045	99 512	44	99 490	6 104 108	61.34
21	0.00049	99 468	48	99 444	6 004 618	60.37
22	0.00050	99 419	50	99 394	5 905 174	59.40
23	0.00051	99 369	51	99 344	5 805 780	58.43
24	0.00051	99 319	51	99 293	5 706 436	57.46
25	0.00052	99 268	51	99 242	5 607 142	56.49
26	0.00053	99 216	53	99 190	5 507 900	55.51
27	0.00054	99 164	53	99 137	5 408 710	54.54
28	0.00055	99 110	54	99 083	5 309 573	53.57
29	0.00056	99 056	56	99 028	5 210 489	52.60
30	0.00058	99 000	57	98 972	5 111 461	51.63
31	0.00059	98 943	58	98 914	5 012 489	50.66
32	0.00061	98 885	60	98 855	4 913 575	49.69
33	0.00064	98 825	63	98 794	4 814 719	48.72
34	0.00067	98 762	66	98 729	4 715 926	47.75
35	0.00071	98 696	70	98 661	4 617 197	46.78
36	0.00075	98 626	74	98 589	4 518 535	45.81
37	0.00080	98 551	79	98 512	4 419 946	44.85
38	0.00085	98 473	83	98 431	4 321 434	43.88
39	0.00090	98 389	89	98 345	4 223 003	42.92
40	0.00098	98 300	97	98 253	4 124 657	41.96
41	0.00108	98 204	106	98 151	4 026 405	41.00
42	0.00119	98 098	116	98 040	3 928 253	40.04
43	0.00130	97 981	127	97 918	3 830 213	39.09
44	0.00143	97 854	140	97 785	3 732 295	38.14
45	0.00159	97 714	155	97 638	3 634 510	37.20
46	0.00175	97 559	171	97 475	3 536 872	36.25
47	0.00195	97 388	190	97 295	3 439 397	35.32
48	0.00217	97 198	211	97 094	3 342 103	34.38
49	0.00240	96 987	233	96 872	3 245 009	33.46

Male

age x	probability of dying nq_x	number of survivors l_x	number of deaths nd_x	stationary population		life expectancy $^o e_x$
				number of person-years nL_x	total person-years T_x	
50	0.00264	96 754	255	96 628	3 148 137	32.54
51	0.00289	96 499	278	96 361	3 051 509	31.62
52	0.00314	96 220	302	96 071	2 955 147	30.71
53	0.00342	95 918	328	95 756	2 859 076	29.81
54	0.00376	95 590	359	95 413	2 763 320	28.91
55	0.00415	95 230	395	95 036	2 667 907	28.02
56	0.00457	94 835	434	94 622	2 572 872	27.13
57	0.00506	94 402	478	94 166	2 478 250	26.25
58	0.00559	93 924	525	93 665	2 384 083	25.38
59	0.00613	93 399	572	93 116	2 290 418	24.52
60	0.00670	92 826	622	92 519	2 197 302	23.67
61	0.00735	92 204	678	91 870	2 104 782	22.83
62	0.00809	91 526	741	91 161	2 012 912	21.99
63	0.00895	90 785	813	90 385	1 921 751	21.17
64	0.00989	89 973	890	89 534	1 831 366	20.35
65	0.01092	89 083	973	88 604	1 741 832	19.55
66	0.01205	88 110	1 062	87 587	1 653 228	18.76
67	0.01319	87 049	1 148	86 482	1 565 641	17.99
68	0.01435	85 900	1 233	85 291	1 479 160	17.22
69	0.01563	84 668	1 323	84 014	1 393 868	16.46
70	0.01702	83 344	1 419	82 643	1 309 855	15.72
71	0.01858	81 926	1 522	81 174	1 227 211	14.98
72	0.02031	80 404	1 633	79 597	1 146 038	14.25
73	0.02225	78 771	1 752	77 905	1 066 441	13.54
74	0.02433	77 018	1 874	76 092	988 536	12.84
75	0.02680	75 144	2 014	74 150	912 444	12.14
76	0.02976	73 130	2 176	72 056	838 295	11.46
77	0.03321	70 954	2 357	69 791	766 238	10.80
78	0.03722	68 597	2 553	67 338	696 447	10.15
79	0.04182	66 044	2 762	64 681	629 109	9.53
80	0.04718	63 282	2 985	61 808	564 428	8.92
81	0.05342	60 296	3 221	58 706	502 620	8.34
82	0.06061	57 075	3 459	55 365	443 914	7.78
83	0.06864	53 616	3 680	51 794	388 549	7.25
84	0.07760	49 936	3 875	48 013	336 755	6.74
85	0.08752	46 061	4 031	44 056	288 742	6.27
86	0.09811	42 030	4 123	39 973	244 686	5.82
87	0.10963	37 907	4 156	35 829	204 712	5.40
88	0.12215	33 751	4 123	31 684	168 883	5.00
89	0.13580	29 628	4 023	27 606	137 199	4.63
90	0.15129	25 605	3 874	23 653	109 593	4.28
91	0.16763	21 731	3 643	19 888	85 940	3.95
92	0.18517	18 089	3 349	16 387	66 053	3.65
93	0.20397	14 739	3 006	13 206	49 665	3.37
94	0.22407	11 733	2 629	10 386	36 460	3.11
95	0.24552	9 104	2 235	7 953	26 074	2.86
96	0.26834	6 869	1 843	5 915	18 121	2.64
97	0.29255	5 026	1 470	4 261	12 206	2.43
98	0.31817	3 555	1 131	2 963	7 945	2.23
99	0.34518	2 424	837	1 983	4 982	2.06
100	0.37355	1 587	593	1 273	2 999	1.89
101	0.40323	994	401	780	1 726	1.74
102	0.43414	593	258	455	946	1.59
103	0.46618	336	157	251	491	1.46
104	0.49920	179	89	130	241	1.34
105 -	1.00000	90	90	111	111	1.23

Table A. Abridged Life Tables for Japan, 2016

Female

age x	probability of dying nq_x	number of survivors l_x	number of deaths nd_x	stationary population		life expectancy e_x
				number of person-years nL_x	total person-years T_x	
0 (W)	0.00069	100 000	69	1 917	8 713 724	87.14
1	0.00009	99 931	9	1 916	8 711 807	87.18
2	0.00006	99 921	6	1 916	8 709 891	87.17
3	0.00005	99 915	5	1 916	8 707 974	87.15
4	0.00024	99 910	24	8 986	8 706 058	87.14
2 (M)	0.00016	99 886	16	8 323	8 697 072	87.07
3	0.00035	99 871	35	24 963	8 688 749	87.00
6	0.00034	99 836	34	49 908	8 663 785	86.78
0 (Y)	0.00198	100 000	198	99 847	8 713 724	87.14
1	0.00029	99 802	29	99 788	8 613 877	86.31
2	0.00019	99 773	19	99 764	8 514 090	85.33
3	0.00012	99 754	12	99 748	8 414 326	84.35
4	0.00009	99 742	9	99 738	8 314 578	83.36
5	0.00007	99 734	7	99 730	8 214 840	82.37
6	0.00007	99 726	7	99 723	8 115 110	81.37
7	0.00006	99 720	6	99 717	8 015 387	80.38
8	0.00005	99 714	5	99 711	7 915 670	79.38
9	0.00006	99 708	6	99 705	7 815 959	78.39
10	0.00006	99 703	6	99 700	7 716 254	77.39
11	0.00007	99 697	7	99 693	7 616 554	76.40
12	0.00007	99 690	7	99 686	7 516 861	75.40
13	0.00007	99 683	7	99 680	7 417 175	74.41
14	0.00008	99 676	8	99 672	7 317 495	73.41
15	0.00009	99 668	9	99 664	7 217 823	72.42
16	0.00011	99 659	11	99 654	7 118 159	71.43
17	0.00012	99 648	12	99 642	7 018 505	70.43
18	0.00013	99 636	13	99 629	6 918 864	69.44
19	0.00014	99 623	14	99 616	6 819 234	68.45
20	0.00016	99 609	16	99 601	6 719 619	67.46
21	0.00019	99 592	19	99 583	6 620 018	66.47
22	0.00022	99 574	22	99 563	6 520 435	65.48
23	0.00024	99 552	24	99 540	6 420 872	64.50
24	0.00025	99 528	25	99 515	6 321 332	63.51
25	0.00026	99 502	25	99 490	6 221 817	62.53
26	0.00025	99 477	25	99 464	6 122 327	61.55
27	0.00025	99 452	25	99 440	6 022 863	60.56
28	0.00025	99 427	25	99 415	5 923 424	59.58
29	0.00027	99 402	26	99 389	5 824 009	58.59
30	0.00028	99 376	28	99 362	5 724 620	57.61
31	0.00030	99 348	29	99 333	5 625 258	56.62
32	0.00032	99 318	31	99 303	5 525 925	55.64
33	0.00034	99 287	34	99 270	5 426 622	54.66
34	0.00038	99 253	37	99 235	5 327 352	53.67
35	0.00042	99 216	41	99 196	5 228 117	52.69
36	0.00045	99 175	45	99 152	5 128 922	51.72
37	0.00048	99 130	48	99 106	5 029 769	50.74
38	0.00051	99 082	50	99 057	4 930 664	49.76
39	0.00055	99 031	54	99 005	4 831 607	48.79
40	0.00060	98 977	59	98 948	4 732 602	47.82
41	0.00066	98 918	66	98 886	4 633 654	46.84
42	0.00073	98 852	72	98 817	4 534 768	45.87
43	0.00079	98 780	78	98 742	4 435 952	44.91
44	0.00085	98 702	84	98 661	4 337 210	43.94
45	0.00093	98 618	92	98 573	4 238 549	42.98
46	0.00103	98 527	101	98 477	4 139 976	42.02
47	0.00113	98 426	112	98 371	4 041 499	41.06
48	0.00125	98 314	123	98 253	3 943 129	40.11
49	0.00138	98 191	136	98 124	3 844 875	39.16

Female

age x	probability of dying nq_x	number of survivors l_x	number of deaths nd_x	stationary population		life expectancy ${}^o e_x$
				number of person-years nL_x	total person-years T_x	
50	0.00151	98 055	149	97 982	3 746 752	38.21
51	0.00166	97 906	162	97 826	3 648 770	37.27
52	0.00179	97 744	175	97 658	3 550 943	36.33
53	0.00191	97 569	186	97 477	3 453 286	35.39
54	0.00201	97 383	196	97 286	3 355 809	34.46
55	0.00213	97 187	207	97 084	3 258 523	33.53
56	0.00227	96 980	220	96 871	3 161 438	32.60
57	0.00245	96 760	237	96 642	3 064 567	31.67
58	0.00265	96 522	256	96 396	2 967 925	30.75
59	0.00286	96 266	275	96 130	2 871 529	29.83
60	0.00306	95 991	294	95 846	2 775 399	28.91
61	0.00327	95 697	313	95 542	2 679 553	28.00
62	0.00350	95 384	334	95 219	2 584 011	27.09
63	0.00378	95 050	360	94 872	2 488 792	26.18
64	0.00411	94 690	389	94 498	2 393 920	25.28
65	0.00449	94 301	423	94 093	2 299 422	24.38
66	0.00493	93 878	463	93 650	2 205 329	23.49
67	0.00539	93 415	504	93 167	2 111 679	22.61
68	0.00589	92 911	547	92 642	2 018 513	21.73
69	0.00645	92 364	595	92 071	1 925 871	20.85
70	0.00707	91 769	649	91 449	1 833 800	19.98
71	0.00776	91 120	707	90 772	1 742 351	19.12
72	0.00858	90 413	776	90 031	1 651 579	18.27
73	0.00954	89 637	855	89 216	1 561 548	17.42
74	0.01059	88 782	940	88 319	1 472 331	16.58
75	0.01187	87 842	1 043	87 330	1 384 012	15.76
76	0.01341	86 799	1 164	86 228	1 296 682	14.94
77	0.01527	85 635	1 308	84 994	1 210 454	14.14
78	0.01754	84 327	1 479	83 603	1 125 460	13.35
79	0.02012	82 848	1 667	82 031	1 041 857	12.58
80	0.02308	81 181	1 874	80 262	959 826	11.82
81	0.02651	79 307	2 102	78 276	879 564	11.09
82	0.03061	77 205	2 363	76 046	801 288	10.38
83	0.03542	74 842	2 651	73 541	725 241	9.69
84	0.04094	72 191	2 955	70 739	651 700	9.03
85	0.04715	69 236	3 265	67 629	580 961	8.39
86	0.05407	65 971	3 567	64 213	513 332	7.78
87	0.06208	62 404	3 874	60 493	449 119	7.20
88	0.07151	58 530	4 186	56 463	388 627	6.64
89	0.08251	54 344	4 484	52 126	332 164	6.11
90	0.09489	49 861	4 731	47 513	280 038	5.62
91	0.10875	45 129	4 908	42 688	232 525	5.15
92	0.12527	40 222	5 039	37 710	189 837	4.72
93	0.14402	35 183	5 067	32 646	152 127	4.32
94	0.16389	30 116	4 936	27 630	119 481	3.97
95	0.18406	25 180	4 635	22 832	91 851	3.65
96	0.20486	20 546	4 209	18 402	69 018	3.36
97	0.22628	16 337	3 697	14 443	50 617	3.10
98	0.24830	12 640	3 139	11 024	36 173	2.86
99	0.27090	9 502	2 574	8 168	25 150	2.65
100	0.29406	6 928	2 037	5 866	16 982	2.45
101	0.31776	4 890	1 554	4 076	11 115	2.27
102	0.34194	3 337	1 141	2 735	7 040	2.11
103	0.36659	2 196	805	1 768	4 305	1.96
104	0.39165	1 391	545	1 100	2 536	1.82
105 -	1.00000	846	846	1 437	1 437	1.70