Abridged Life Tables for Japan 2017

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Ⅰ. Life expectancies at specified ages

In the abridged life tables 2017, life expectancy at birth was 81.09 years for males, increasing by 0.11 from 80.98 in 2016, and 87.26 for females, increasing by 0.13 from 87.14.

The difference in life expectancy at birth between males and females was 6.17 years, increasing by 0.01 years from 2016 to 2017.

Life expectancies at specified ages increased for both males and females until age 80 but decreased over age 85 from 2016 to 2017.

Table 1. Life expectancies at specified ages

(years)

Age	Male			Female		
	2017	2016	Difference	2017	2016	Difference
0	81.09	80.98	0.11	87.26	87.14	0.13
5	76.30	76.20	0.11	82.48	82.37	0.11
10	71.33	71.23	0.11	77.50	77.39	0.11
15	66.37	66.26	0.11	72.52	72.42	0.11
20	61.45	61.34	0.11	67.57	67.46	0.11
25	56.59	56.49	0.11	62.63	62.53	0.10
30	51.73	51.63	0.10	57.70	57.61	0.10
35	46.88	46.78	0.10	52.79	52.69	0.10
40	42.05	41.96	0.09	47.90	47.82	0.09
45	37.28	37.20	0.09	43.06	42.98	0.08
50	32.61	32.54	0.07	38.29	38.21	0.08
55	28.08	28.02	0.06	33.59	33.53	0.07
60	23.72	23.67	0.04	28.97	28.91	0.06
65	19.57	19.55	0.02	24.43	24.38	0.05
70	15.73	15.72	0.01	20.03	19.98	0.04
75	12.18	12.14	0.03	15.79	15.76	0.03
80	8.95	8.92	0.03	11.84	11.82	0.02
85	6.26	6.27	△ 0.01	8.39	8.39	△ 0.00
90	4.25	4.28	△ 0.03	5.61	5.62	△ 0.00

Table 2. Trend of life expectancies at birth

(years)

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
2017	81.09	87.26	6.17

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 2017, the number of survivors at age 65 was 89,383 for males per 100,000 hypothetical cohort and 94,487 for females. This means that the survival rate at age 65 was 89.4% for males and 94.5% for females. In the same way, it followed that the survival rate at age 75 was 75.3% for males and 88.1% for females, and the survival rate at age 90 was 25.8% for males and 50.2% for females.

The median length of life, which means the age when exactly half of the cohort remains alive, was 84.08 years for males and 90.03 years for females, which was 2.99 years longer than the life expectancy for males and 2.77 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
2017	98.3	89.4	75.3	25.8	9.1	99.0	94.5	88.1	50.2	25.5

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
2017	84.08	81.09	2.99	90.03	87.26	2.77

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		2017*	81.09	87.26	12 465
AFRICA	Algeria	2016	77.1	78.2	4 084
	Egypt	2017*	70.8	73.6	9 102
	South Africa	2014	59.1	63.1	5 591
	Tunisia	2016*	74.5	78.1	1 130
NORTH AMERICA	Canada	2013 - 2015*	79.8	83.9	3 629
	Costa Rica	2015	77.37	82.42	489
	Cuba	2011 - 2013	76.50	80.45	1 124
	Mexico	2015	72.3	77.7	12 227
	United States	2015*	76.3	81.2	32 313
SOUTH AMERICA	Argentina	2008 - 2010	72.08	78.81	4 359
	Brazil	2016*	72.2	79.4	20 608
	Chile	2014	76.75	82.46	1 819
	Colombia	2010 - 2015	72.07	78.54	4 875
	Peru	2010 - 2015	71.54	76.84	3 149
ASIA	Bangladesh	2016	70.3	72.9	16 080
	China	2015*	73.64	79.43	137 122
	Cyprus	2015	79.8	83.5	85
	India	2012 - 2016*	67.4	70.2	121 337
	Iran	2011	71.5	74.0	7 969
	Israel	2011 - 2015	80.09	83.79	838
	Malaysia	2016*	72.6	77.2	3 166
	Pakistan	2007	63.55	67.62	19 171
	Qatar	2015	77.51	82.12	262
	Republic of Korea	2016*	79.3	85.4	5 125
	Singapore	2017*	80.7	85.2	561
	Thailand	2016*	71.8	78.6	6 593
	Turkey	2013 - 2015	75.3	80.7	7 874
EUROPE	Austria	2017*	79.27	83.89	869
	Belgium	2016*	78.78	81.26	1 131
	Czech Republic	2016*	76.22	82.05	1 055
	Denmark	2016 - 2017*	79.0	82.9	572
	Finland	2016*	78.4	84.1	551
	France	2017*	79.5	85.3	6 473
	Germany	2014 - 2016*	78.31	83.20	8 218
	Greece	2015	78.14	83.17	1 078
	Iceland	2016*	80.7	83.7	33
	Italy	2016*	80.562	85.044	6 067
	Netherlands	2017*	80.1	83.4	1 698
	Norway	2017*	80.91	84.28	524
	Poland	2016*	73.94	81.94	3 797
	Russian Federation	2014*	65.29	76.47	14 351
	Spain	2016*	80.31	85.84	4 645
	Sweden	2017*	80.72	84.10	985
	Switzerland	2016*	81.5	85.3	833
	Ukraine	2013	66.34	76.22	4 259
	United Kingdom	2014 - 2016*	79.17	82.86	6 538
OCEANIA	Australia	2014 - 2016*	80.4	84.6	2 413
	New Zealand	2014 - 2016*	79.91	83.40	469

Reference: *In Hong Kong of 2017, life expectancy at birth for males was 81.70 years and that for females was 87.66 years. (Population: 734 ten thousands)

Note: Population in this table means mid-year estimated population in 2016 (in cases of China,Israel,Pakistan, and Turkey 2015,Russian Federation 2013,India 2012).
On the other hand, population of Japan was estimated population at Oct.1, 2017.

Source: Demographic Yearbook 2016 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 2017, 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 for males, however heart diseases, cerebrovascular diseases and pneumonia for females. 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	28.72	20.03	28.35	18.32	25.18	16.12	15.28	9.72
Heart diseases	14.33	17.22	14.44	17.82	14.79	18.32	16.49	19.18
Cerebrovascular diseases	7.66	8.71	7.70	8.86	7.86	9.00	7.33	8.74
Pneumonia	8.81	7.27	9.66	7.62	10.72	7.99	13.73	8.99
Accidents	3.29	2.51	2.99	2.44	2.97	2.39	2.78	1.96
Traffic accidents(regrouped)	0.43	0.20	0.23	0.15	0.19	0.13	0.07	0.04
Suicide	1.78	0.77	0.57	0.30	0.39	0.20	0.18	0.07
Chronic obstructive pulmonary disease	2.33	0.49	2.57	0.51	2.76	0.52	2.61	0.47
Renal failure	1.97	1.95	2.12	2.03	2.28	2.08	2.61	2.04
Aortic aneurysm and dissection	1.33	1.32	1.30	1.34	1.25	1.30	1.00	0.93
Diseases of liver	1.33	0.78	0.97	0.70	0.73	0.63	0.35	0.32
Diabetes mellitus	1.02	0.89	0.98	0.90	0.89	0.88	0.61	0.69
Hypertensive diseases	0.60	0.95	0.61	0.99	0.62	1.04	0.76	1.21
Tuberculosis	0.23	0.14	0.25	0.14	0.27	0.15	0.33	0.14
Senility	5.43	14.70	6.07	15.55	7.14	16.64	13.92	23.90
Malignant neoplasms, heart diseases and cerebrovascular diseases (regrouped)	50.71	45.96	50.50	44.99	47.83	43.44	39.11	37.64

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 2017, the potential years of life lost by malignant neoplasms were the longest at age 0 for both males and females, followed by heart diseases, cerebrovascular diseases and pneumonia. The order of the four causes at age 65 and 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 were the longest for both males and females, followed by malignant neoplasms, pneumonia and cerebrovascular diseases for males, and malignant neoplasms, pneumonia and cerebrovascular diseases at the same year for females.

Potential years of life lost by malignant neoplasms, heart diseases and cerebrovascular diseases was 6.81 years for males and 5.61 years for females at age 0, 5.52 years for males and 4.50 years for females at age 65, 4.12 years for males and 3.69 years for females at age 75, 1.71 years for males and 1.89 years for females at age 90.

Table 7. Potential years of life lost, 2016

(years)

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.62	2.84	2.92	1.96	1.96	1.35	0.55	0.41
Heart diseases	1.40	1.32	1.09	1.25	0.91	1.18	0.58	0.81
Cerebrovascular diseases	0.75	0.71	0.58	0.62	0.49	0.57	0.24	0.35
Pneumonia	0.59	0.45	0.60	0.45	0.60	0.45	0.47	0.35
Accidents	0.44	0.27	0.22	0.19	0.18	0.16	0.09	0.07
Traffic accidents(regrouped)	0.11	0.04	0.02	0.02	0.01	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	0.16	0.04	0.17	0.04	0.16	0.03	0.09	0.02
Renal failure	0.14	0.14	0.14	0.13	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	0.22	0.11	0.10	0.07	0.05	0.05	0.01	0.01
Diabetes mellitus	0.12	0.08	0.08	0.07	0.06	0.06	0.02	0.03
Hypertensive diseases	0.05	0.06	0.04	0.06	0.03	0.05	0.02	0.04
Tuberculosis	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Malignant neoplasms, heart diseases and cerebrovascular diseases	6.81	5.61	5.52	4.50	4.12	3.69	1.71	1.89

Table A. Abridged Life Tables for Japan, 2017

Male

age x	probability of dying ${}_nq_x$	number of survivors l_x	number of deaths ${}_nd_x$	stationary population: number of person-years ${}_nL_x$	stationary population: total person-years T_x	life expectancy $\mathring{e}_x$
0 (W)	0.00072	100 000	72	1 917	8 109 161	81.09
1	0.00010	99 928	10	1 916	8 107 244	81.13
2	0.00008	99 918	8	1 916	8 105 328	81.12
3	0.00006	99 911	6	1 916	8 103 412	81.11
4	0.00021	99 905	21	8 986	8 101 496	81.09
2 (M)	0.00013	99 884	13	8 323	8 092 510	81.02
3	0.00030	99 871	30	24 964	8 084 187	80.95
6	0.00032	99 841	32	49 911	8 059 223	80.72
0 (Y)	0.00191	100 000	191	99 850	8 109 161	81.09
1	0.00031	99 809	31	99 794	8 009 312	80.25
2	0.00021	99 779	21	99 768	7 909 518	79.27
3	0.00013	99 758	13	99 751	7 809 750	78.29
4	0.00010	99 745	10	99 740	7 709 999	77.30
5	0.00008	99 735	8	99 731	7 610 260	76.30
6	0.00008	99 727	8	99 723	7 510 529	75.31
7	0.00008	99 719	8	99 715	7 410 806	74.32
8	0.00007	99 711	7	99 707	7 311 091	73.32
9	0.00007	99 704	7	99 700	7 211 384	72.33
10	0.00007	99 697	7	99 693	7 111 684	71.33
11	0.00008	99 689	8	99 685	7 011 991	70.34
12	0.00009	99 681	9	99 677	6 912 305	69.34
13	0.00011	99 672	11	99 667	6 812 628	68.35
14	0.00014	99 661	14	99 654	6 712 962	67.36
15	0.00017	99 647	17	99 639	6 613 308	66.37
16	0.00021	99 630	21	99 620	6 513 669	65.38
17	0.00026	99 609	26	99 596	6 414 049	64.39
18	0.00032	99 582	32	99 567	6 314 453	63.41
19	0.00038	99 550	37	99 532	6 214 886	62.43
20	0.00042	99 513	42	99 492	6 115 354	61.45
21	0.00046	99 471	46	99 448	6 015 862	60.48
22	0.00049	99 425	49	99 401	5 916 414	59.51
23	0.00051	99 376	50	99 351	5 817 013	58.54
24	0.00051	99 326	50	99 301	5 717 662	57.56
25	0.00050	99 275	50	99 250	5 618 361	56.59
26	0.00050	99 226	49	99 201	5 519 111	55.62
27	0.00050	99 177	49	99 152	5 419 910	54.65
28	0.00051	99 127	50	99 102	5 320 758	53.68
29	0.00053	99 077	52	99 051	5 221 655	52.70
30	0.00055	99 025	55	98 997	5 122 604	51.73
31	0.00058	98 970	58	98 941	5 023 607	50.76
32	0.00061	98 912	60	98 882	4 924 666	49.79
33	0.00063	98 852	63	98 821	4 825 783	48.82
34	0.00066	98 789	65	98 757	4 726 962	47.85
35	0.00068	98 725	67	98 691	4 628 205	46.88
36	0.00072	98 657	71	98 622	4 529 514	45.91
37	0.00077	98 586	76	98 549	4 430 892	44.94
38	0.00083	98 511	82	98 470	4 332 343	43.98
39	0.00091	98 429	89	98 385	4 233 872	43.01
40	0.00099	98 340	97	98 292	4 135 487	42.05
41	0.00106	98 243	104	98 191	4 037 195	41.09
42	0.00114	98 139	112	98 083	3 939 004	40.14
43	0.00124	98 027	122	97 967	3 840 921	39.18
44	0.00137	97 905	134	97 839	3 742 954	38.23
45	0.00152	97 771	148	97 698	3 645 115	37.28
46	0.00169	97 623	165	97 542	3 547 417	36.34
47	0.00188	97 458	183	97 367	3 449 875	35.40
48	0.00209	97 274	203	97 174	3 352 508	34.46
49	0.00231	97 071	224	96 960	3 255 334	33.54

Male

age x	probability of dying ${}_nq_x$	number of survivors l_x	number of deaths ${}_nd_x$	stationary population: number of person-years ${}_nL_x$	stationary population: total person-years T_x	life expectancy $\mathring{e}_x$
50	0.00254	96 846	246	96 725	3 158 373	32.61
51	0.00278	96 600	268	96 468	3 061 649	31.69
52	0.00305	96 332	294	96 187	2 965 181	30.78
53	0.00337	96 038	324	95 879	2 868 994	29.87
54	0.00373	95 714	357	95 538	2 773 115	28.97
55	0.00410	95 357	391	95 164	2 677 576	28.08
56	0.00447	94 966	425	94 757	2 582 412	27.19
57	0.00487	94 541	461	94 314	2 487 656	26.31
58	0.00533	94 080	502	93 833	2 393 342	25.44
59	0.00587	93 579	549	93 308	2 299 508	24.57
60	0.00646	93 030	601	92 734	2 206 200	23.72
61	0.00713	92 428	659	92 104	2 113 467	22.87
62	0.00787	91 769	722	91 413	2 021 363	22.03
63	0.00870	91 047	792	90 657	1 929 950	21.20
64	0.00966	90 255	872	89 826	1 839 293	20.38
65	0.01072	89 383	958	88 911	1 749 467	19.57
66	0.01189	88 424	1 052	87 907	1 660 556	18.78
67	0.01312	87 373	1 147	86 807	1 572 650	18.00
68	0.01437	86 226	1 239	85 614	1 485 842	17.23
69	0.01566	84 987	1 331	84 330	1 400 228	16.48
70	0.01713	83 657	1 433	82 949	1 315 898	15.73
71	0.01880	82 223	1 546	81 460	1 232 949	15.00
72	0.02062	80 678	1 663	79 856	1 151 489	14.27
73	0.02256	79 014	1 783	78 133	1 071 633	13.56
74	0.02467	77 232	1 905	76 289	993 500	12.86
75	0.02690	75 326	2 026	74 324	917 211	12.18
76	0.02956	73 300	2 167	72 229	842 887	11.50
77	0.03280	71 133	2 333	69 981	770 658	10.83
78	0.03680	68 800	2 532	67 551	700 677	10.18
79	0.04151	66 268	2 750	64 911	633 125	9.55
80	0.04681	63 517	2 973	62 050	568 214	8.95
81	0.05277	60 544	3 195	58 965	506 164	8.36
82	0.05954	57 349	3 414	55 660	447 199	7.80
83	0.06730	53 935	3 630	52 138	391 538	7.26
84	0.07607	50 305	3 827	48 407	339 401	6.75
85	0.08606	46 479	4 000	44 492	290 994	6.26
86	0.09729	42 479	4 133	40 421	246 502	5.80
87	0.10953	38 346	4 200	36 249	206 081	5.37
88	0.12282	34 146	4 194	32 045	169 832	4.97
89	0.13703	29 952	4 104	27 889	137 787	4.60
90	0.15151	25 848	3 916	23 871	109 899	4.25
91	0.16786	21 932	3 681	20 069	86 028	3.92
92	0.18564	18 250	3 388	16 530	65 958	3.61
93	0.20494	14 862	3 046	13 309	49 429	3.33
94	0.22583	11 816	2 669	10 450	36 120	3.06
95	0.24839	9 148	2 272	7 978	25 670	2.81
96	0.27266	6 876	1 875	5 906	17 692	2.57
97	0.29869	5 001	1 494	4 223	11 786	2.36
98	0.32651	3 507	1 145	2 907	7 563	2.16
99	0.35610	2 362	841	1 918	4 655	1.97
100	0.38743	1 521	589	1 208	2 737	1.80
101	0.42043	932	392	722	1 530	1.64
102	0.45500	540	246	407	808	1.50
103	0.49096	294	144	215	401	1.36
104	0.52812	150	79	106	186	1.24
105 –	1.00000	71	71	80	80	1.13

Table A. Abridged Life Tables for Japan, 2017

Female

age x		probability of dying ${}_nq_x$	number of survivors l_x	number of deaths ${}_nd_x$	stationary population: number of person-years ${}_nL_x$	stationary population: total person-years T_x	life expectancy $\mathring{e}_x$
0	(W)	0.00060	100 000	60	1 917	8 726 455	87.26
1		0.00007	99 940	7	1 917	8 724 538	87.30
2		0.00008	99 933	8	1 916	8 722 622	87.28
3		0.00006	99 925	6	1 916	8 720 705	87.27
4		0.00021	99 920	21	8 987	8 718 789	87.26
2	(M)	0.00012	99 898	12	8 324	8 709 802	87.19
3		0.00031	99 886	31	24 968	8 701 477	87.11
6		0.00034	99 855	34	49 917	8 676 510	86.89
0	(Y)	0.00179	100 000	179	99 863	8 726 455	87.26
1		0.00028	99 821	28	99 806	8 626 592	86.42
2		0.00019	99 793	19	99 784	8 526 786	85.44
3		0.00013	99 774	13	99 767	8 427 003	84.46
4		0.00009	99 761	9	99 757	8 327 235	83.47
5		0.00007	99 753	7	99 749	8 227 478	82.48
6		0.00006	99 745	6	99 742	8 127 730	81.48
7		0.00005	99 739	5	99 736	8 027 987	80.49
8		0.00005	99 734	5	99 731	7 928 251	79.49
9		0.00005	99 729	4	99 727	7 828 520	78.50
10		0.00004	99 724	4	99 722	7 728 793	77.50
11		0.00004	99 720	4	99 718	7 629 071	76.50
12		0.00005	99 716	5	99 713	7 529 353	75.51
13		0.00007	99 710	7	99 707	7 429 639	74.51
14		0.00009	99 704	9	99 700	7 329 932	73.52
15		0.00010	99 695	10	99 690	7 230 233	72.52
16		0.00011	99 685	11	99 680	7 130 542	71.53
17		0.00012	99 675	12	99 669	7 030 862	70.54
18		0.00014	99 663	14	99 656	6 931 194	69.55
19		0.00016	99 649	16	99 641	6 831 538	68.56
20		0.00018	99 633	18	99 624	6 731 897	67.57
21		0.00019	99 615	19	99 605	6 632 273	66.58
22		0.00020	99 596	19	99 586	6 532 667	65.59
23		0.00020	99 576	20	99 566	6 433 081	64.60
24		0.00021	99 556	21	99 546	6 333 515	63.62
25		0.00022	99 536	22	99 525	6 233 969	62.63
26		0.00023	99 514	23	99 502	6 134 444	61.64
27		0.00024	99 491	24	99 479	6 034 942	60.66
28		0.00025	99 466	25	99 454	5 935 463	59.67
29		0.00027	99 441	27	99 428	5 836 009	58.69
30		0.00028	99 415	28	99 401	5 736 581	57.70
31		0.00030	99 387	30	99 372	5 637 180	56.72
32		0.00032	99 357	31	99 341	5 537 808	55.74
33		0.00034	99 326	34	99 309	5 438 467	54.75
34		0.00037	99 292	37	99 273	5 339 158	53.77
35		0.00040	99 255	39	99 235	5 239 885	52.79
36		0.00041	99 216	41	99 195	5 140 650	51.81
37		0.00043	99 175	43	99 154	5 041 454	50.83
38		0.00047	99 132	46	99 109	4 942 301	49.86
39		0.00052	99 086	51	99 061	4 843 191	48.88
40		0.00058	99 035	57	99 007	4 744 131	47.90
41		0.00064	98 978	63	98 946	4 645 124	46.93
42		0.00071	98 914	70	98 880	4 546 178	45.96
43		0.00077	98 844	77	98 807	4 447 298	44.99
44		0.00084	98 768	83	98 727	4 348 491	44.03
45		0.00092	98 684	91	98 640	4 249 765	43.06
46		0.00101	98 594	99	98 545	4 151 125	42.10
47		0.00111	98 495	109	98 441	4 052 580	41.15
48		0.00121	98 386	119	98 327	3 954 139	40.19
49		0.00133	98 266	130	98 202	3 855 812	39.24

Female

age x	probability of dying ${}_nq_x$	number of survivors l_x	number of deaths ${}_nd_x$	stationary population: number of person-years ${}_nL_x$	stationary population: total person-years T_x	life expectancy $\mathring{e}_x$
50	0.00145	98 136	142	98 066	3 757 610	38.29
51	0.00158	97 994	155	97 917	3 659 544	37.34
52	0.00170	97 839	167	97 756	3 561 627	36.40
53	0.00183	97 672	178	97 584	3 463 870	35.46
54	0.00195	97 494	190	97 400	3 366 287	34.53
55	0.00208	97 304	202	97 204	3 268 887	33.59
56	0.00223	97 102	216	96 995	3 171 683	32.66
57	0.00240	96 885	233	96 770	3 074 688	31.74
58	0.00258	96 653	249	96 530	2 977 917	30.81
59	0.00275	96 404	265	96 273	2 881 388	29.89
60	0.00294	96 139	282	95 999	2 785 115	28.97
61	0.00315	95 856	302	95 707	2 689 116	28.05
62	0.00341	95 554	326	95 393	2 593 409	27.14
63	0.00372	95 228	354	95 054	2 498 015	26.23
64	0.00408	94 874	387	94 683	2 402 962	25.33
65	0.00445	94 487	420	94 280	2 308 278	24.43
66	0.00486	94 067	457	93 842	2 213 998	23.54
67	0.00536	93 610	502	93 363	2 120 157	22.65
68	0.00590	93 108	549	92 837	2 026 794	21.77
69	0.00646	92 559	598	92 264	1 933 957	20.89
70	0.00705	91 960	648	91 640	1 841 693	20.03
71	0.00767	91 312	700	90 966	1 750 053	19.17
72	0.00840	90 612	761	90 237	1 659 086	18.31
73	0.00931	89 851	836	89 439	1 568 850	17.46
74	0.01041	89 015	927	88 559	1 479 410	16.62
75	0.01165	88 088	1 026	87 583	1 390 851	15.79
76	0.01312	87 062	1 142	86 501	1 303 268	14.97
77	0.01494	85 919	1 284	85 291	1 216 766	14.16
78	0.01719	84 636	1 455	83 924	1 131 476	13.37
79	0.01985	83 181	1 651	82 372	1 047 552	12.59
80	0.02284	81 530	1 862	80 617	965 180	11.84
81	0.02623	79 667	2 089	78 642	884 563	11.10
82	0.03018	77 578	2 341	76 429	805 920	10.39
83	0.03489	75 237	2 625	73 949	729 491	9.70
84	0.04041	72 612	2 934	71 171	655 542	9.03
85	0.04684	69 677	3 264	68 073	584 371	8.39
86	0.05417	66 414	3 598	64 643	516 297	7.77
87	0.06245	62 816	3 923	60 881	451 654	7.19
88	0.07188	58 893	4 233	56 801	390 773	6.64
89	0.08248	54 660	4 508	52 427	333 972	6.11
90	0.09452	50 152	4 740	47 798	281 545	5.61
91	0.10775	45 412	4 893	42 975	233 747	5.15
92	0.12274	40 518	4 973	38 036	190 772	4.71
93	0.14087	35 545	5 007	33 043	152 736	4.30
94	0.16370	30 538	4 999	28 030	119 693	3.92
95	0.18515	25 539	4 729	23 144	91 663	3.59
96	0.20732	20 810	4 314	18 614	68 518	3.29
97	0.23017	16 496	3 797	14 551	49 905	3.03
98	0.25370	12 699	3 222	11 039	35 353	2.78
99	0.27788	9 477	2 634	8 112	24 314	2.57
100	0.30268	6 844	2 071	5 763	16 202	2.37
101	0.32806	4 772	1 566	3 950	10 439	2.19
102	0.35398	3 207	1 135	2 607	6 489	2.02
103	0.38038	2 072	788	1 652	3 882	1.87
104	0.40722	1 284	523	1 003	2 230	1.74
105 –	1.00000	761	761	1 227	1 227	1.61