Abridged Life Tables for Japan 2013

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Ⅰ. Life expectancies at specified ages

In the abridged life tables 2013, life expectancy at birth was 80.21 years for males, increasing by 0.27 from 79.94 in 2012, and 86.61 for females, increasing by 0.20 from 86.41.

Life expectancies at specified ages increased for both males and females from 2012 to 2013.

The difference in life expectancy at birth between males and females was 6.40 years, decreasing by 0.07 years from 2012 to 2013.

Table 1. Life expectancies at specified ages

(years)

Age	Male			Female		
	2013	2012	Increase	2013	2012	Increase
0	80.21	79.94	0.27	86.61	86.41	0.20
5	75.45	75.19	0.26	81.84	81.67	0.17
10	70.49	70.23	0.26	76.87	76.70	0.17
15	65.52	65.26	0.26	71.89	71.72	0.17
20	60.61	60.36	0.25	66.94	66.78	0.16
25	55.77	55.52	0.25	62.01	61.85	0.16
30	50.93	50.69	0.24	57.09	56.94	0.15
35	46.09	45.85	0.24	52.19	52.04	0.15
40	41.29	41.05	0.24	47.32	47.17	0.15
45	36.55	36.32	0.23	42.49	42.35	0.14
50	31.92	31.70	0.22	37.74	37.59	0.15
55	27.44	27.23	0.21	33.07	32.92	0.15
60	23.14	22.93	0.21	28.47	28.33	0.14
65	19.08	18.89	0.19	23.97	23.82	0.15
70	15.28	15.11	0.17	19.59	19.45	0.14
75	11.74	11.57	0.17	15.39	15.27	0.12
80	8.61	8.48	0.13	11.52	11.43	0.09
85	6.12	6.00	0.12	8.19	8.10	0.09
90	4.26	4.16	0.10	5.53	5.47	0.06

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
2006	79.00	85.81	6.81
2007	79.19	85.99	6.80
2008	79.29	86.05	6.76
2009	79.59	86.44	6.85
2010	79.55	86.30	6.75
2011	79.44	85.90	6.46
2012	79.94	86.41	6.47
2013	80.21	86.61	6.40

Notes: 1. Data of 1947-2005 and 2010 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 2013, the number of survivors at age 65 was 88,041 for males per 100,000 hypothetical cohort and 93,933 for females. This means that the survival rate at age 65 was 88.0% for males and 93.9% for females. In the same way, it followed that the survival rate at age 75 was 73.6% for males and 87.1% for females, and the survival rate at age 90 was 23.1% for males and 47.2% for females.

The stationary population from age 0, which is the total number of persons alive at any point in time above age 0 per 100,000 annual live birth, was 8,020,754 for males and 8,660,942 for females. In the same way, the stationary population from age 65 was 1,680,195 (20.9%) for males and 2,251,558 (26.0%) for females.

The median length of life, which means the age when exactly half of the cohort remains alive, was 83.19 years for males and 89.40 years for females, which was 2.98 years longer than the life expectancy for males and 2.79 years for females.

Table 3. 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
2006	97.8	86.1	70.3	20.6	7.3	98.7	93.3	85.5	43.9	21.9
2007	97.8	86.4	70.8	21.0	7.6	98.7	93.3	85.8	44.5	22.4
2008	97.9	86.6	71.2	21.1	7.5	98.7	93.4	86.0	44.8	22.4
2009	97.9	86.7	71.9	22.2	8.2	98.8	93.6	86.5	46.4	23.7
2010	97.9	87.0	72.2	21.5	7.3	98.8	93.6	86.5	46.2	22.8
2011	97.8	86.9	71.9	21.3	7.2	98.6	93.1	85.9	45.4	22.1
2012	98.1	87.8	73.1	22.2	7.5	98.8	93.8	86.9	46.5	22.7
2013	98.1	88.0	73.6	23.1	8.1	98.9	93.9	87.1	47.2	23.4

Notes: 1. Data of 1947-2005 and 2010 were based on complete life tables.
    2. Before 1970, data of Okinawa prefecture were not included.
    3. It is different from the actual rates of survivors because it is assumed the circumstances of death do not change from the time we made the life table.

Table 4. Ratio of the stationary population from age 65 to that from age 0

(%)

Year	Male	Female
1947	…	…
1950−1952	10.5	13.3
1955	11.5	14.7
1960	11.5	15.1
1965	12.1	16.0
1970	13.0	17.0
1975	14.7	18.5
1980	15.8	19.9
1985	16.8	21.2
1990	17.6	22.3
1995	18.0	23.2
2000	19.1	24.5
2005	19.8	25.2
2006	20.1	25.5
2007	20.2	25.6
2008	20.3	25.7
2009	20.6	26.0
2010	20.5	25.8
2011	20.5	25.6
2012	20.7	25.9
2013	20.9	26.0

Notes: 1. Data of 1947-2005 and 2010 were based on complete life tables.
    2. Before 1970, data of Okinawa prefecture were not included.

Table 5. The median length of life

(years)

Year	Male	Female
1947	59.28	64.45
1950−1952	67.22	71.31
1955	69.79	74.19
1960	70.66	75.44
1965	72.00	77.04
1970	73.10	78.19
1975	75.31	80.17
1980	76.69	81.75
1985	78.06	83.38
1990	79.13	84.71
1995	79.49	85.73
2000	80.74	87.41
2005	81.56	88.34
2006	81.94	88.61
2007	82.11	88.77
2008	82.21	88.83
2009	82.55	89.20
2010	82.60	89.17
2011	82.55	88.98
2012	82.95	89.25
2013	83.19	89.40

Notes: 1. Data of 1947-2005 and 2010 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 6. Life expectancies at birth in some countries

（Life expectancy : years, Population : 10 thousands）

	Country	Period	Male	female	Population
	Japan	2013*	80.21	86.61	12 570
AFRICA	Algeria	2010	75.6	77.0	3 750
	Egypt	2011	68.59	71.35	8 254
	South Africa	2009	53.5	57.2	5 059
	Tunisia	2012*	71.6	76.6	1 078
NORTH AMERICA	Canada	2009–2011*	79.33	83.60	3 488
	Costa Rica	2010	76.82	81.78	467
	Cuba	2005–2007	76.00	80.02	1 124
	Mexico	2010*	71.1	77.0	11 234
	United States	2011*	76.3	81.1	31 391
SOUTH AMERICA	Argentina	2006–2010	71.56	79.06	4 128
	Brazil	2012*	71.0	78.3	19 395
	Chile	2011	75.57	80.89	1 740
	Colombia	2005–2010	70.67	77.51	4 658
	Peru	2000–2005	69.00	74.32	3 014
ASIA	Bangladesh	2011	67.93	70.26	15 061
	China	2010*	72.38	77.37	135 070
	Cyprus	2010–2011	79.0	82.9	86
	India	2006–2010*	64.6	67.7	121 337
	Iran	2006	71.1	73.1	7 673
	Israel	2012*	79.9	83.6	790
	Malaysia	2013*	72.56	77.18	2 934
	Pakistan	2007	63.55	67.62	17 710
	Qatar	2011	76.47	80.95	173
	Republic of Korea	2012*	77.9	84.6	5 035
	Singapore	2013*	80.2	84.6	531
	Thailand	2012*	69.6	76.9	6 791
	Turkey	2011	72.0	77.1	7 518
EUROPE	Austria	2013*	78.45	83.56	847
	Belgium	2011*	77.8	82.9	1 114
	Czech Republic	2013*	75.23	81.13	1 051
	Denmark	2012–2013*	78.0	81.9	559
	Finland	2013*	77.8	83.8	540
	France	2013*	78.7	85.0	6 356
	Germany	2009–2011*	77.72	82.73	8 193
	Greece	2011	78.26	83.10	1 129
	Iceland	2012*	80.8	83.9	32
	Italy	2012*	79.57	84.41	6 085
	Netherlands	2013*	79.3	82.9	1 673
	Norway	2013*	79.65	83.61	499
	Poland	2013*	73.1	81.1	3 854
	Russian Federation	2012*	64.56	75.86	14 306
	Spain	2012*	79.38	85.13	4 616
	Sweden	2013*	80.09	83.71	952
	Switzerland	2012*	80.5	84.7	800
	Ukraine	2011	65.98	75.88	4 563
	United Kingdom	2010–2012*	78.96	82.79	6 324
OCEANIA	Australia	2010–2012*	79.9	84.3	2 268
	New Zealand	2011–2013*	79.7	83.2	443

Reference: *In Hong Kong of 2013, life expectancy at birth for males was 80.87 years and that for females was 86.57 years.
(Population: 715 ten thousands)

Note: Population in this table means mid-year estimated population in 2012 (in cases of South Africa,Cuba,Bangladesh,Pakistan and Qatar 2011, Mexico 2010).
On the other hand, population of Japan was estimated population at Oct.1, 2013.
Source: Demographic Yearbook 2012 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 2013, 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 and 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 7. Mortality probability by causes of death, 2013

（%）

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	29.38	20.20	28.85	18.36	25.55	16.16	15.20	9.51
Heart diseases	14.31	18.00	14.46	18.69	14.79	19.23	16.57	20.06
Cerebrovascular diseases	8.73	10.26	8.95	10.51	9.22	10.73	8.85	10.60
Pneumonia	11.76	10.16	13.01	10.70	14.44	11.22	18.17	12.60
Accidents	3.33	2.49	2.94	2.38	2.88	2.30	2.51	1.82
Traffic accidents(regrouped)	0.52	0.25	0.28	0.18	0.23	0.14	0.09	0.04
Suicide	2.22	0.99	0.75	0.41	0.49	0.27	0.26	0.09
Chronic obstructive pulmonary disease	2.14	0.56	2.39	0.58	2.61	0.60	2.33	0.54
Renal failure	2.03	2.21	2.21	2.31	2.39	2.39	2.83	2.37
Aortic aneurysm and dissection	1.23	1.16	1.23	1.18	1.22	1.15	0.95	0.82
Diseases of liver	1.27	0.75	0.91	0.67	0.67	0.59	0.34	0.28
Diabetes mellitus	1.00	0.98	0.96	1.00	0.88	0.97	0.61	0.73
Hypertensive diseases	0.45	0.85	0.47	0.90	0.50	0.94	0.67	1.18
Tuberculosis	0.21	0.13	0.22	0.14	0.24	0.15	0.23	0.12
Senility	4.03	11.57	4.58	12.31	5.43	13.25	11.58	19.93
Malignant neoplasms, heart diseases and cerebrovascular diseases (regrouped)	52.42	48.46	52.26	47.57	49.56	46.12	40.62	40.18

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 2013, 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 and 75, while some causes changed ranks at age 90: pneumonia, heart diseases, malignant neoplasms and cerebrovascular diseases for males, and heart diseases, pneumonia, cerebrovascular diseases and malignant neoplasms for females. Therefore, it turned out that malignant neoplasms became less effective at age 90.

Potential years of life lost by malignant neoplasms, heart diseases and cerebrovascular diseases was 7.29 years for males and 6.06 years for females at age 0, 5.85 years for males and 4.87 years for females at age 65, 4.41 years for males and 4.04 years for females at age 75, 1.89 years for males and 2.09 years for females at age 90.

Table 8. Potential years of life lost, 2013

（years）

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.79	2.91	2.98	1.96	2.00	1.36	0.57	0.41
Heart diseases	1.45	1.43	1.11	1.35	0.93	1.27	0.61	0.87
Cerebrovascular diseases	0.84	0.84	0.68	0.75	0.58	0.69	0.31	0.43
Pneumonia	0.85	0.68	0.87	0.67	0.86	0.66	0.68	0.51
Accidents	0.49	0.30	0.23	0.20	0.18	0.16	0.08	0.07
Traffic accidents(regrouped)	0.14	0.06	0.03	0.02	0.02	0.01	0.00	0.00
Suicide	0.69	0.32	0.08	0.06	0.04	0.03	0.01	0.00
Chronic obstructive pulmonary disease	0.15	0.04	0.16	0.04	0.16	0.04	0.08	0.02
Renal failure	0.15	0.16	0.14	0.15	0.13	0.14	0.09	0.09
Aortic aneurysm and dissection	0.12	0.11	0.09	0.10	0.08	0.08	0.03	0.03
Diseases of liver	0.22	0.11	0.09	0.07	0.05	0.05	0.01	0.01
Diabetes mellitus	0.11	0.09	0.08	0.08	0.06	0.07	0.02	0.03
Hypertensive diseases	0.04	0.05	0.03	0.05	0.03	0.05	0.02	0.04
Tuberculosis	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Malignant neoplasms, heart diseases and cerebrovascular diseases	7.29	6.06	5.85	4.87	4.41	4.04	1.89	2.09

Table A.Abridged life tables for Japan, 2013

Male

age		probability of dying	number of survivors	number of deaths	stationary population		life expectancy
					number of person-years	total person-years	
x		$_nq_x$	l_x	$_nd_x$	$_nL_x$	T_x	$\overset{\circ}{e}_x$
0	(W)	0.00079	100 000	79	1 917	8 020 754	80.21
1		0.00011	99 921	11	1 916	8 018 837	80.25
2		0.00009	99 910	9	1 916	8 016 921	80.24
3		0.00008	99 901	8	1 916	8 015 005	80.23
4		0.00027	99 893	27	8 984	8 013 089	80.22
2	(M)	0.00016	99 865	16	8 321	8 004 105	80.15
3		0.00038	99 850	38	24 958	7 995 783	80.08
6		0.00038	99 812	38	49 895	7 970 825	79.86
0	(Y)	0.00226	100 000	226	99 823	8 020 754	80.21
1		0.00031	99 774	31	99 758	7 920 931	79.39
2		0.00022	99 743	22	99 733	7 821 173	78.41
3		0.00016	99 721	16	99 713	7 721 440	77.43
4		0.00012	99 706	12	99 699	7 621 727	76.44
5		0.00011	99 694	10	99 688	7 522 028	75.45
6		0.00010	99 683	10	99 678	7 422 339	74.46
7		0.00010	99 673	10	99 668	7 322 661	73.47
8		0.00009	99 664	9	99 659	7 222 993	72.47
9		0.00008	99 655	8	99 650	7 123 334	71.48
10		0.00007	99 647	7	99 643	7 023 683	70.49
11		0.00008	99 639	8	99 635	6 924 041	69.49
12		0.00009	99 632	9	99 627	6 824 405	68.50
13		0.00011	99 623	11	99 618	6 724 778	67.50
14		0.00013	99 612	13	99 606	6 625 160	66.51
15		0.00017	99 599	17	99 591	6 525 555	65.52
16		0.00022	99 582	22	99 572	6 425 964	64.53
17		0.00028	99 560	28	99 547	6 326 392	63.54
18		0.00035	99 532	35	99 515	6 226 845	62.56
19		0.00042	99 497	42	99 477	6 127 329	61.58
20		0.00048	99 455	48	99 431	6 027 853	60.61
21		0.00053	99 407	53	99 381	5 928 422	59.64
22		0.00057	99 354	56	99 326	5 829 041	58.67
23		0.00059	99 298	59	99 268	5 729 715	57.70
24		0.00060	99 239	59	99 209	5 630 446	56.74
25		0.00059	99 180	59	99 150	5 531 237	55.77
26		0.00058	99 121	58	99 092	5 432 087	54.80
27		0.00058	99 063	57	99 035	5 332 995	53.83
28		0.00059	99 006	58	98 977	5 233 960	52.86
29		0.00061	98 948	61	98 918	5 134 983	51.90
30		0.00064	98 887	63	98 856	5 036 065	50.93
31		0.00065	98 824	65	98 792	4 937 209	49.96
32		0.00066	98 760	65	98 727	4 838 417	48.99
33		0.00068	98 694	67	98 661	4 739 690	48.02
34		0.00072	98 627	71	98 592	4 641 028	47.06
35		0.00077	98 557	76	98 519	4 542 436	46.09
36		0.00083	98 481	82	98 440	4 443 917	45.12
37		0.00089	98 399	88	98 356	4 345 476	44.16
38		0.00096	98 311	95	98 265	4 247 121	43.20
39		0.00104	98 217	102	98 167	4 148 856	42.24
40		0.00112	98 115	110	98 061	4 050 690	41.29
41		0.00122	98 005	120	97 946	3 952 629	40.33
42		0.00135	97 885	132	97 820	3 854 683	39.38
43		0.00148	97 753	144	97 682	3 756 863	38.43
44		0.00163	97 609	159	97 531	3 659 181	37.49
45		0.00180	97 450	176	97 363	3 561 651	36.55
46		0.00199	97 274	193	97 179	3 464 287	35.61
47		0.00218	97 081	212	96 976	3 367 108	34.68
48		0.00239	96 869	231	96 755	3 270 132	33.76
49		0.00261	96 638	253	96 513	3 173 377	32.84

age	probability of dying	number of survivors	number of deaths	stationary population		life expectancy
				number of person-years	total person-years	
x	$_nq_x$	l_x	$_nd_x$	$_nL_x$	T_x	$\overset{\circ}{e}_x$
50	0.00286	96 385	276	96 249	3 076 864	31.92
51	0.00315	96 109	303	95 960	2 980 615	31.01
52	0.00350	95 806	335	95 641	2 884 654	30.11
53	0.00386	95 471	369	95 290	2 789 013	29.21
54	0.00423	95 102	402	94 904	2 693 723	28.32
55	0.00460	94 700	436	94 485	2 598 819	27.44
56	0.00499	94 264	470	94 032	2 504 334	26.57
57	0.00543	93 794	509	93 543	2 410 302	25.70
58	0.00597	93 285	557	93 011	2 316 759	24.84
59	0.00661	92 729	613	92 427	2 223 747	23.98
60	0.00734	92 115	677	91 783	2 131 320	23.14
61	0.00812	91 439	742	91 073	2 039 538	22.30
62	0.00895	90 696	812	90 296	1 948 464	21.48
63	0.00985	89 884	886	89 448	1 858 168	20.67
64	0.01077	88 999	958	88 526	1 768 720	19.87
65	0.01170	88 041	1 030	87 532	1 680 195	19.08
66	0.01271	87 010	1 106	86 464	1 592 663	18.30
67	0.01384	85 904	1 189	85 317	1 506 199	17.53
68	0.01509	84 715	1 278	84 084	1 420 882	16.77
69	0.01645	83 437	1 373	82 759	1 336 799	16.02
70	0.01794	82 064	1 472	81 336	1 254 040	15.28
71	0.01946	80 592	1 568	79 817	1 172 704	14.55
72	0.02123	79 024	1 678	78 195	1 092 887	13.83
73	0.02334	77 347	1 805	76 456	1 014 692	13.12
74	0.02582	75 542	1 951	74 579	938 236	12.42
75	0.02874	73 591	2 115	72 548	863 657	11.74
76	0.03214	71 476	2 297	70 343	791 109	11.07
77	0.03612	69 178	2 498	67 947	720 766	10.42
78	0.04075	66 680	2 717	65 340	652 820	9.79
79	0.04626	63 963	2 959	62 504	587 479	9.18
80	0.05251	61 004	3 204	59 422	524 975	8.61
81	0.05942	57 800	3 435	56 101	465 553	8.05
82	0.06694	54 366	3 639	52 562	409 452	7.53
83	0.07495	50 726	3 802	48 837	356 890	7.04
84	0.08352	46 924	3 919	44 973	308 053	6.56
85	0.09299	43 005	3 999	41 011	263 080	6.12
86	0.10373	39 006	4 046	36 986	222 069	5.69
87	0.11600	34 960	4 055	32 931	185 084	5.29
88	0.12904	30 905	3 988	28 902	152 153	4.92
89	0.14219	26 917	3 827	24 987	123 251	4.58
90	0.15663	23 089	3 616	21 261	98 264	4.26
91	0.17198	19 473	3 349	17 774	77 003	3.95
92	0.18826	16 124	3 036	14 579	59 229	3.67
93	0.20552	13 089	2 690	11 714	44 650	3.41
94	0.22377	10 399	2 327	9 205	32 936	3.17
95	0.24305	8 072	1 962	7 061	23 732	2.94
96	0.26337	6 110	1 609	5 277	16 671	2.73
97	0.28473	4 501	1 281	3 834	11 395	2.53
98	0.30714	3 219	989	2 702	7 561	2.35
99	0.33060	2 230	737	1 843	4 858	2.18
100	0.35508	1 493	530	1 213	3 016	2.02
101	0.38055	963	366	768	1 803	1.87
102	0.40698	596	243	466	1 035	1.74
103	0.43430	354	154	271	569	1.61
104	0.46243	200	93	150	298	1.49
105 −	1.00000	108	108	149	149	1.38

Table A.Abridged life tables for Japan, 2013

Female

age		probability of dying	number of survivors	number of deaths	stationary population		life expectancy
					number of person-years	total person-years	
x		$_nq_x$	l_x	$_nd_x$	$_nL_x$	T_x	$\overset{\circ}{e}_x$
0	(W)	0.00067	100 000	67	1 917	8 660 942	86.61
1		0.00009	99 933	9	1 916	8 659 025	86.65
2		0.00009	99 924	9	1 916	8 657 108	86.64
3		0.00006	99 915	6	1 916	8 655 192	86.63
4		0.00022	99 909	22	8 986	8 653 276	86.61
2	(M)	0.00015	99 887	15	8 323	8 644 290	86.54
3		0.00036	99 872	36	24 963	8 635 967	86.47
6		0.00033	99 836	33	49 908	8 611 003	86.25
0	(Y)	0.00197	100 000	197	99 846	8 660 942	86.61
1		0.00029	99 803	29	99 788	8 561 095	85.78
2		0.00020	99 773	19	99 764	8 461 307	84.81
3		0.00012	99 754	12	99 747	8 361 543	83.82
4		0.00009	99 741	9	99 737	8 261 796	82.83
5		0.00008	99 733	8	99 729	8 162 059	81.84
6		0.00008	99 725	8	99 721	8 062 330	80.85
7		0.00007	99 717	7	99 714	7 962 609	79.85
8		0.00006	99 710	6	99 707	7 862 895	78.86
9		0.00006	99 704	6	99 701	7 763 188	77.86
10		0.00005	99 698	5	99 696	7 663 487	76.87
11		0.00005	99 693	5	99 690	7 563 791	75.87
12		0.00006	99 687	6	99 685	7 464 101	74.88
13		0.00007	99 682	7	99 678	7 364 417	73.88
14		0.00008	99 674	8	99 670	7 264 738	72.88
15		0.00010	99 666	10	99 661	7 165 068	71.89
16		0.00011	99 656	11	99 651	7 065 407	70.90
17		0.00013	99 645	13	99 639	6 965 756	69.91
18		0.00015	99 632	15	99 625	6 866 117	68.91
19		0.00018	99 617	18	99 608	6 766 493	67.92
20		0.00021	99 599	21	99 589	6 666 884	66.94
21		0.00024	99 578	24	99 566	6 567 296	65.95
22		0.00025	99 554	25	99 542	6 467 729	64.97
23		0.00024	99 530	24	99 517	6 368 188	63.98
24		0.00024	99 505	24	99 493	6 268 670	63.00
25		0.00024	99 482	24	99 470	6 169 177	62.01
26		0.00025	99 458	25	99 446	6 069 707	61.03
27		0.00026	99 433	26	99 420	5 970 261	60.04
28		0.00028	99 407	28	99 393	5 870 841	59.06
29		0.00030	99 380	30	99 365	5 771 447	58.07
30		0.00033	99 350	32	99 334	5 672 082	57.09
31		0.00036	99 317	35	99 300	5 572 749	56.11
32		0.00038	99 282	38	99 263	5 473 449	55.13
33		0.00040	99 244	40	99 225	5 374 185	54.15
34		0.00042	99 204	42	99 184	5 274 961	53.17
35		0.00044	99 162	44	99 141	5 175 777	52.19
36		0.00047	99 119	46	99 096	5 076 636	51.22
37		0.00050	99 072	50	99 048	4 977 541	50.24
38		0.00054	99 023	53	98 996	4 878 493	49.27
39		0.00059	98 969	58	98 941	4 779 496	48.29
40		0.00064	98 911	64	98 880	4 680 556	47.32
41		0.00070	98 847	70	98 813	4 581 676	46.35
42		0.00077	98 778	76	98 740	4 482 863	45.38
43		0.00084	98 702	83	98 661	4 384 123	44.42
44		0.00091	98 619	90	98 574	4 285 462	43.45
45		0.00100	98 528	98	98 480	4 186 888	42.49
46		0.00111	98 430	109	98 377	4 088 408	41.54
47		0.00124	98 321	122	98 262	3 990 032	40.58
48		0.00137	98 200	135	98 133	3 891 770	39.63
49		0.00150	98 065	147	97 992	3 793 637	38.69

age	probability of dying	number of survivors	number of deaths	stationary population		life expectancy
				number of person-years	total person-years	
x	$_nq_x$	l_x	$_nd_x$	$_nL_x$	T_x	$\overset{\circ}{e}_x$
50	0.00160	97 918	157	97 840	3 695 644	37.74
51	0.00171	97 761	167	97 678	3 597 804	36.80
52	0.00184	97 594	179	97 506	3 500 126	35.86
53	0.00198	97 415	193	97 319	3 402 620	34.93
54	0.00214	97 222	208	97 119	3 305 301	34.00
55	0.00230	97 014	223	96 904	3 208 182	33.07
56	0.00243	96 791	236	96 674	3 111 278	32.14
57	0.00258	96 555	249	96 432	3 014 604	31.22
58	0.00275	96 306	265	96 175	2 918 172	30.30
59	0.00296	96 041	284	95 901	2 821 997	29.38
60	0.00321	95 757	307	95 606	2 726 096	28.47
61	0.00350	95 450	334	95 285	2 630 490	27.56
62	0.00381	95 116	362	94 938	2 535 205	26.65
63	0.00416	94 754	394	94 560	2 440 267	25.75
64	0.00452	94 360	427	94 149	2 345 708	24.86
65	0.00490	93 933	460	93 706	2 251 558	23.97
66	0.00528	93 473	494	93 229	2 157 853	23.09
67	0.00569	92 979	529	92 718	2 064 624	22.21
68	0.00617	92 450	570	92 169	1 971 906	21.33
69	0.00674	91 880	620	91 575	1 879 737	20.46
70	0.00742	91 260	677	90 927	1 788 163	19.59
71	0.00817	90 583	740	90 219	1 697 236	18.74
72	0.00905	89 843	813	89 443	1 607 017	17.89
73	0.01010	89 030	899	88 589	1 517 574	17.05
74	0.01136	88 131	1 001	87 640	1 428 985	16.21
75	0.01285	87 130	1 119	86 581	1 341 345	15.39
76	0.01457	86 011	1 253	85 396	1 254 764	14.59
77	0.01656	84 758	1 403	84 070	1 169 368	13.80
78	0.01894	83 354	1 579	82 581	1 085 298	13.02
79	0.02182	81 775	1 784	80 902	1 002 718	12.26
80	0.02521	79 991	2 016	79 003	921 816	11.52
81	0.02910	77 975	2 269	76 862	842 813	10.81
82	0.03344	75 706	2 532	74 462	765 951	10.12
83	0.03827	73 174	2 800	71 797	691 488	9.45
84	0.04379	70 374	3 082	68 857	619 691	8.81
85	0.05021	67 292	3 379	65 628	550 834	8.19
86	0.05779	63 913	3 693	62 093	485 205	7.59
87	0.06671	60 220	4 017	58 238	423 112	7.03
88	0.07707	56 203	4 332	54 063	364 874	6.49
89	0.08911	51 871	4 622	49 582	310 811	5.99
90	0.10211	47 249	4 824	44 849	261 230	5.53
91	0.11573	42 425	4 910	39 972	216 380	5.10
92	0.12999	37 515	4 877	35 070	176 408	4.70
93	0.14547	32 638	4 748	30 250	141 339	4.33
94	0.16256	27 890	4 534	25 602	111 089	3.98
95	0.18100	23 357	4 228	21 214	85 487	3.66
96	0.20095	19 129	3 844	17 172	64 273	3.36
97	0.22248	15 285	3 401	13 546	47 101	3.08
98	0.24565	11 884	2 919	10 384	33 555	2.82
99	0.27051	8 965	2 425	7 711	23 172	2.58
100	0.29709	6 540	1 943	5 529	15 460	2.36
101	0.32540	4 597	1 496	3 814	9 931	2.16
102	0.35543	3 101	1 102	2 520	6 118	1.97
103	0.38713	1 999	774	1 587	3 598	1.80
104	0.42042	1 225	515	949	2 010	1.64
105 −	1.00000	710	710	1 062	1 062	1.50