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# Abridged Life Tables for Japan 2021

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## I . Life expectancies at specified ages

In the abridged life tables 2021, life expectancy at birth was 81.47 years for males, decreasing by 0.09 from 81.56 in 2020, and 87.57 for females, decreasing by 0.14 from 87.71.

The difference in life expectancy at birth between males and females was 6.10 years, decreased by 0.05 years from 2020 to 2021.

Life expectancies at specified ages decreased for both males and females at all ages from 2020 to 2021.

**Table 1. Life expectancies at specified ages**

Age	(years)					
	Male			Female		
	2021	2020	Difference	2021	2020	Difference
0	81.47	81.56	△ 0.09	87.57	87.71	△ 0.14
5	76.67	76.76	△ 0.09	82.76	82.90	△ 0.14
10	71.70	71.78	△ 0.08	77.78	77.93	△ 0.15
15	66.73	66.81	△ 0.08	72.81	72.95	△ 0.14
20	61.81	61.90	△ 0.09	67.87	68.01	△ 0.14
25	56.95	57.05	△ 0.09	62.95	63.09	△ 0.14
30	52.09	52.18	△ 0.09	58.03	58.17	△ 0.13
35	47.23	47.33	△ 0.10	53.13	53.25	△ 0.12
40	42.40	42.50	△ 0.09	48.24	48.37	△ 0.13
45	37.62	37.72	△ 0.11	43.39	43.52	△ 0.13
50	32.93	33.04	△ 0.11	38.61	38.75	△ 0.14
55	28.39	28.50	△ 0.11	33.91	34.06	△ 0.14
60	24.02	24.12	△ 0.11	29.28	29.42	△ 0.14
65	19.85	19.97	△ 0.11	24.73	24.88	△ 0.14
70	15.96	16.09	△ 0.13	20.31	20.45	△ 0.14
75	12.42	12.54	△ 0.12	16.08	16.22	△ 0.14
80	9.22	9.34	△ 0.12	12.12	12.25	△ 0.13
85	6.48	6.59	△ 0.10	8.60	8.73	△ 0.13
90	4.38	4.49	△ 0.11	5.74	5.85	△ 0.12

**Table 2. Trend of life expectancies at birth**

Year	(years)		
	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
2020	81.56	87.71	6.15
2021	81.47	87.57	6.10

Notes: 1. Data of 1947-2020 were based on complete life tables.

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

## II. Survivorship in the life tables

In the abridged life tables 2021, the number of survivors at age 65 was 89,763 for males per 100,000 hypothetical cohort and 94,569 for females. This means that the survival rate at age 65 was 89.8% for males and 94.6% for females. In the same way, it followed that the survival rate at age 75 was 76.0% for males and 88.3% for females, and the survival rate at age 90 was 27.5% for males and 52.0% for females.

The median length of life, which means the age when exactly half of the cohort remains alive, was 84.39 years for males and 90.42 years for females, which was 2.92 years longer than the life expectancy for males and 2.85 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
2020	98.4	89.7	76.0	28.1	10.5	99.0	94.6	88.4	52.6	27.9
2021	98.4	89.8	76.0	27.5	10.1	99.0	94.6	88.3	52.0	27.1

Notes: 1. Data of 1947-2020 were based on complete life tables.

2. Until 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
2020	84.51	80.56	2.95	90.55	87.71	2.84
2021	84.39	81.47	2.92	90.42	87.57	2.85

Notes: 1. Data of 1947-2020 were based on complete life tables.

2. Until 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	2021*	81.47	87.57	12 278	
AFRICA	Algeria	2019	77.2	78.6	4 423
	Democratic Republic of the Congo	2018	56.5	59.7	10 176
	Egypt	2021*	73.4	75.9	10 060
	South Africa	2020	62.5	68.5	5 962
	Tunisia	2019*	74.5	78.1	1 175
NORTH AMERICA	Canada	2018 – 2020*	79.82	84.11	3 801
	Costa Rica	2020	78.05	83.18	511
	Mexico	2021*	72.5	78.2	12 779
United States of America	2020*	74.2	79.9	32 824	
SOUTH AMERICA	Argentina	2020	74.90	81.44	4 538
	Brazil	2020*	73.31	80.31	21 176
	Chile	2019 – 2020	77.87	83.42	1 946
	Colombia	2020 – 2021	73.69	80.04	5 037
	Peru	2015 – 2020	73.7	79.2	3 263
ASIA	Bangladesh	2020	71.2	74.5	16 822
	China	2015*	73.64	79.43	139 772
	Cyprus	2019	80.1	84.2	89
	India	2015 – 2019*	68.4	71.1	135 338
	Indonesia	2020	71.49	75.27	26 960
	Iran	2016	72.5	75.5	8 404
	Israel	2016 – 2020*	80.80	84.68	922
	Malaysia	2021*	73.2	78.3	3 266
	Philippines	2015 – 2020	69.93	75.91	10 877
	Qatar	2018	79.1	82.4	283
	Republic of Korea	2020*	80.5	86.5	5 178
	Singapore	2021*	81.1	85.9	569
	Thailand	2020*	73.2	80.3	6 653
	Turkey	2017 – 2019	75.94	81.30	8 338
	EUROPE	Austria	2021*	78.80	83.76
Belgium		2020*	78.52	83.05	1 146
Czechia		2021*	74.09	80.51	1 069
Denmark		2020 – 2021*	79.62	83.42	583
Finland		2021*	79.15	84.46	553
France		2021*	79.26	85.37	6 512
Germany		2018 – 2020*	78.64	83.40	8 317
Greece		2019	78.68	83.57	1 072
Iceland		2021*	80.9	84.1	36
Italy		2021*	80.135	84.691	5 964
Netherlands		2020*	79.67	83.08	1 741
Norway		2021*	81.59	84.73	537
Poland		2020*	72.61	80.71	3 793
Russian Federation		2020*	66.49	76.43	14 351
Spain		2021*	80.24	85.83	4 733
Sweden		2021*	81.21	84.82	1 033
Switzerland		2021*	81.6	85.6	861
Ukraine		2018	66.69	76.72	4 173
United Kingdom		2018 – 2020*	79.04	82.86	6 708
OCEANIA	Australia	2018 – 2020*	81.19	85.34	2 537
	New Zealand	2019 – 2021*	80.48	84.06	508

Reference: In Hong Kong of 2021\*, life expectancy at birth for males was 82.97 years and that for females was 87.67 years. (Population: 748 ten thousands)

Note: Population in this table means population in 2020 (in cases of United States of America, China, Belgium, Switzerland, Australia 2019, and Russian Federation 2013).

On the other hand, population of Japan was estimated population at Oct.1, 2021.

Source: Demographic Yearbook 2020 U.N.

Data marked an asterisk (\*) 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 2021, the mortality probability by malignant neoplasms was the highest for both males and females at age 0, followed by heart diseases (excluding hypertensive heart diseases), cerebrovascular diseases and pneumonia. Comparing data between age 0 and 65, the mortality probability for malignant neoplasms was lower at age 65 than at age 0. And for heart diseases (excluding hypertensive heart diseases) and pneumonia it was higher at age 65. This trend was more likely observed at age 75 and 90.

The total of the mortality probabilities by malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases was under 50 percent at all the ages for both males and females, comparing the data in 2020, it decreased at all the ages of 0, 65, 75 and 90 years for both males and females.

**Table 6. Mortality probability by causes of death, 2021**

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	27.66	19.86	27.55	18.28	24.76	16.12	15.43	9.68
Heart diseases (excluding hypertensive heart diseases)	14.38	16.20	14.43	16.75	14.71	17.22	16.63	18.19
Cerebrovascular diseases	6.86	7.46	6.84	7.55	6.87	7.64	6.12	7.31
Pneumonia	6.25	4.56	6.81	4.78	7.48	4.98	9.12	5.32
Accidents	2.98	2.24	2.79	2.20	2.81	2.18	2.71	1.89
Traffic accidents (regrouped)	0.31	0.13	0.17	0.11	0.14	0.09	0.06	0.02
Suicide	1.71	0.88	0.51	0.28	0.36	0.18	0.16	0.06
Chronic obstructive pulmonary disease	1.89	0.37	2.07	0.38	2.21	0.38	2.08	0.31
Renal failure	2.16	1.93	2.31	2.01	2.46	2.05	2.82	1.99
Aortic aneurysm and dissection	1.24	1.27	1.20	1.29	1.13	1.24	0.91	0.91
Diseases of liver	1.39	0.77	0.97	0.67	0.71	0.58	0.32	0.30
Diabetes mellitus	1.01	0.86	0.96	0.87	0.89	0.85	0.64	0.67
Hypertensive diseases	0.60	0.91	0.60	0.95	0.60	0.99	0.72	1.13
Tuberculosis	0.16	0.11	0.17	0.12	0.19	0.12	0.25	0.12
COVID-19	1.27	0.95	1.21	0.96	1.18	0.95	1.01	0.77
Senility	7.41	18.80	8.25	19.88	9.63	21.23	17.61	29.34
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases (regrouped)	48.90	43.52	48.82	42.59	46.34	40.98	38.19	35.18

## 2. Potential years of life lost

If one cause of death is eliminated, then a person who died from that cause will die from another after the age at death by that cause. As a result, life expectancy increases. This extension of life, called the potential number of years lost, can be regarded as the lost life due to the cause of death and it is possible to estimate how much the cause affects life expectancy.

Looking at the increase in life expectancy when the specific cause of death in 2021 is eliminated, the main cause of death is that both male and female at age 0, 65, and 75 are malignant neoplasms, heart diseases (excluding hypertensive heart diseases), cerebrovascular diseases and pneumonia are in that order. At age 90 of age, heart diseases (excluding hypertensive heart diseases) is the largest in both male and female, then malignant neoplasms, in male pneumonia and cerebrovascular diseases in female, cerebrovascular diseases and pneumonia are in that order. Compared to the previous year, the life expectancy of all causes of death from malignant neoplasms, heart diseases (excluding hypertensive heart diseases), cerebrovascular diseases and pneumonia for both male and female was shorter when the specific cause of death was removed at all ages of 0, 65, 75 and 90 years.

Potential years of life lost by malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases was 6.49 years for males and 5.28 years for females at age 0, 5.32 years for males and 4.24 years for females at age 65, 4.01 years for males and 3.44 years for females at age 75, 1.70 years for males and 1.75 years for females at age 90.

**Table 7. Potential years of life lost, 2021**

Cause of death	(years)							
	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.43	2.81	2.83	1.97	1.95	1.37	0.57	0.42
Heart diseases (excluding hypertensive heart diseases)	1.42	1.23	1.10	1.16	0.92	1.09	0.60	0.77
Cerebrovascular diseases	0.69	0.62	0.53	0.54	0.44	0.48	0.21	0.29
Pneumonia	0.43	0.29	0.43	0.29	0.42	0.29	0.31	0.20
Accidents	0.37	0.23	0.21	0.17	0.17	0.14	0.09	0.07
Traffic accidents (regrouped)	0.08	0.03	0.02	0.01	0.01	0.01	0.00	0.00
Suicide	0.58	0.34	0.06	0.04	0.03	0.02	0.01	0.00
Chronic obstructive pulmonary disease	0.14	0.03	0.14	0.03	0.13	0.03	0.07	0.01
Renal failure	0.16	0.14	0.15	0.13	0.14	0.12	0.09	0.08
Aortic aneurysm and dissection	0.14	0.12	0.10	0.11	0.07	0.09	0.03	0.04
Diseases of liver	0.24	0.12	0.10	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	0.05	0.05	0.04	0.05	0.03	0.05	0.02	0.04
Tuberculosis	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
COVID-19	0.14	0.09	0.10	0.07	0.07	0.06	0.03	0.03
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases	6.49	5.28	5.32	4.24	4.01	3.44	1.70	1.75

**Table A. Abridged Life Tables for Japan, 2021**

**Male**

age $x$	probability of dying $nq_x$	number of survivors $l_x$	number of deaths $nd_x$	stationary population		life expectancy ${}_x e_x$
				number of person-years $nL_x$	total person-years $T_x$	
0 (W)	0.00063	100 000	63	1 917	8 147 364	81.47
1	0.00010	99 937	10	1 916	8 145 447	81.51
2	0.00005	99 927	5	1 916	8 143 531	81.50
3	0.00004	99 921	4	1 916	8 141 615	81.48
4	0.00023	99 917	23	8 987	8 139 698	81.46
2 (M)	0.00014	99 894	14	8 324	8 130 711	81.39
3	0.00029	99 880	29	24 966	8 122 387	81.32
6	0.00034	99 851	33	49 917	8 097 421	81.09
0 (Y)	0.00182	100 000	182	99 860	8 147 364	81.47
1	0.00023	99 818	23	99 804	8 047 504	80.62
2	0.00016	99 794	16	99 787	7 947 701	79.64
3	0.00011	99 778	11	99 772	7 847 914	78.65
4	0.00009	99 767	9	99 762	7 748 142	77.66
5	0.00008	99 758	8	99 754	7 648 379	76.67
6	0.00008	99 750	8	99 746	7 548 625	75.68
7	0.00007	99 743	7	99 739	7 448 879	74.68
8	0.00007	99 735	7	99 732	7 349 140	73.69
9	0.00006	99 728	6	99 725	7 249 409	72.69
10	0.00006	99 722	6	99 719	7 149 683	71.70
11	0.00007	99 716	7	99 713	7 049 964	70.70
12	0.00008	99 709	8	99 705	6 950 251	69.71
13	0.00010	99 701	10	99 696	6 850 546	68.71
14	0.00013	99 690	13	99 684	6 750 850	67.72
15	0.00017	99 677	17	99 669	6 651 166	66.73
16	0.00021	99 660	21	99 650	6 551 497	65.74
17	0.00026	99 639	26	99 627	6 451 847	64.75
18	0.00032	99 613	32	99 598	6 352 220	63.77
19	0.00037	99 582	37	99 564	6 252 622	62.79
20	0.00042	99 545	42	99 524	6 153 059	61.81
21	0.00046	99 503	46	99 480	6 053 535	60.84
22	0.00049	99 457	49	99 432	5 954 055	59.87
23	0.00050	99 408	50	99 382	5 854 623	58.90
24	0.00050	99 357	50	99 332	5 755 240	57.92
25	0.00049	99 308	49	99 283	5 655 908	56.95
26	0.00049	99 259	49	99 234	5 556 625	55.98
27	0.00050	99 210	50	99 185	5 457 390	55.01
28	0.00051	99 160	51	99 135	5 358 205	54.04
29	0.00052	99 109	51	99 084	5 259 070	53.06
30	0.00052	99 058	52	99 032	5 159 987	52.09
31	0.00053	99 006	53	98 980	5 060 954	51.12
32	0.00057	98 953	56	98 926	4 961 975	50.14
33	0.00061	98 897	60	98 868	4 863 049	49.17
34	0.00065	98 837	64	98 806	4 764 181	48.20
35	0.00068	98 773	67	98 740	4 665 375	47.23
36	0.00071	98 706	70	98 671	4 566 635	46.26
37	0.00075	98 636	74	98 599	4 467 964	45.30
38	0.00080	98 561	79	98 522	4 369 365	44.33
39	0.00086	98 482	85	98 440	4 270 843	43.37
40	0.00092	98 397	91	98 352	4 172 403	42.40
41	0.00099	98 306	97	98 258	4 074 051	41.44
42	0.00106	98 209	104	98 158	3 975 792	40.48
43	0.00115	98 105	113	98 050	3 877 635	39.53
44	0.00127	97 992	125	97 931	3 779 585	38.57
45	0.00142	97 868	139	97 800	3 681 654	37.62
46	0.00159	97 729	155	97 653	3 583 854	36.67
47	0.00177	97 574	172	97 489	3 486 201	35.73
48	0.00196	97 402	191	97 308	3 388 712	34.79
49	0.00217	97 211	211	97 107	3 291 404	33.86

## 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	0.00242	97 000	235	96 884	3 194 297	32.93
51	0.00270	96 765	261	96 637	3 097 412	32.01
52	0.00299	96 504	289	96 362	3 000 776	31.09
53	0.00331	96 215	318	96 059	2 904 414	30.19
54	0.00365	95 897	350	95 725	2 808 355	29.29
55	0.00399	95 547	382	95 359	2 712 630	28.39
56	0.00436	95 166	415	94 961	2 617 271	27.50
57	0.00476	94 751	451	94 528	2 522 310	26.62
58	0.00520	94 300	490	94 058	2 427 782	25.75
59	0.00570	93 809	534	93 546	2 333 724	24.88
60	0.00627	93 275	585	92 987	2 240 178	24.02
61	0.00689	92 690	639	92 376	2 147 191	23.17
62	0.00758	92 051	698	91 708	2 054 815	22.32
63	0.00833	91 354	761	90 979	1 963 108	21.49
64	0.00915	90 593	829	90 184	1 872 129	20.67
65	0.01009	89 763	905	89 317	1 781 945	19.85
66	0.01114	88 858	990	88 370	1 692 628	19.05
67	0.01232	87 868	1 082	87 335	1 604 258	18.26
68	0.01363	86 785	1 183	86 203	1 516 923	17.48
69	0.01511	85 602	1 294	84 965	1 430 721	16.71
70	0.01682	84 309	1 418	83 610	1 345 756	15.96
71	0.01869	82 891	1 549	82 127	1 262 145	15.23
72	0.02053	81 341	1 670	80 516	1 180 018	14.51
73	0.02235	79 671	1 781	78 790	1 099 503	13.80
74	0.02435	77 891	1 897	76 952	1 020 713	13.10
75	0.02670	75 994	2 029	74 991	943 760	12.42
76	0.02951	73 965	2 183	72 887	868 769	11.75
77	0.03280	71 782	2 354	70 619	795 882	11.09
78	0.03652	69 427	2 535	68 175	725 263	10.45
79	0.04049	66 892	2 709	65 552	657 088	9.82
80	0.04502	64 183	2 889	62 754	591 536	9.22
81	0.05030	61 294	3 083	59 769	528 782	8.63
82	0.05644	58 211	3 285	56 585	469 013	8.06
83	0.06356	54 925	3 491	53 197	412 428	7.51
84	0.07163	51 434	3 684	49 608	359 231	6.98
85	0.08076	47 750	3 856	45 835	309 623	6.48
86	0.09102	43 894	3 995	41 907	263 788	6.01
87	0.10278	39 899	4 101	37 855	221 882	5.56
88	0.11584	35 798	4 147	33 725	184 026	5.14
89	0.12970	31 651	4 105	29 591	150 301	4.75
90	0.14399	27 546	3 966	25 550	120 710	4.38
91	0.16169	23 580	3 813	21 658	95 160	4.04
92	0.17973	19 767	3 553	17 966	73 503	3.72
93	0.19897	16 214	3 226	14 572	55 537	3.43
94	0.21947	12 988	2 850	11 530	40 965	3.15
95	0.24124	10 138	2 446	8 881	29 435	2.90
96	0.26431	7 692	2 033	6 641	20 555	2.67
97	0.28868	5 659	1 634	4 810	13 913	2.46
98	0.31437	4 025	1 265	3 364	9 103	2.26
99	0.34136	2 760	942	2 264	5 740	2.08
100	0.36960	1 818	672	1 462	3 476	1.91
101	0.39904	1 146	457	902	2 014	1.76
102	0.42961	689	296	529	1 112	1.62
103	0.46120	393	181	294	583	1.48
104	0.49370	212	104	154	289	1.36
105 -	1.00000	107	107	134	134	1.25



**Table A. Abridged Life Tables for Japan, 2021**

**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)	0.00061	100 000	61	1 917	8 757 229	87.57
1	0.00006	99 939	6	1 917	8 755 312	87.61
2	0.00007	99 933	7	1 916	8 753 396	87.59
3	0.00005	99 926	5	1 916	8 751 479	87.58
4	0.00013	99 921	13	8 988	8 749 563	87.56
2 (M)	0.00014	99 909	14	8 325	8 740 575	87.49
3	0.00027	99 895	27	24 970	8 732 250	87.41
6	0.00028	99 867	28	49 926	8 707 280	87.19
0 (Y)	0.00160	100 000	160	99 875	8 757 229	87.57
1	0.00022	99 840	22	99 828	8 657 354	86.71
2	0.00015	99 818	15	99 811	8 557 526	85.73
3	0.00010	99 803	10	99 798	8 457 715	84.74
4	0.00007	99 793	7	99 790	8 357 917	83.75
5	0.00006	99 786	6	99 783	8 258 128	82.76
6	0.00006	99 780	6	99 777	8 158 345	81.76
7	0.00005	99 774	5	99 771	8 058 568	80.77
8	0.00005	99 768	5	99 766	7 958 797	79.77
9	0.00005	99 763	5	99 761	7 859 031	78.78
10	0.00005	99 758	5	99 756	7 759 270	77.78
11	0.00006	99 753	6	99 751	7 659 514	76.78
12	0.00007	99 748	7	99 744	7 559 764	75.79
13	0.00009	99 740	9	99 736	7 460 020	74.79
14	0.00011	99 731	11	99 726	7 360 284	73.80
15	0.00013	99 720	13	99 714	7 260 558	72.81
16	0.00015	99 707	15	99 700	7 160 844	71.82
17	0.00017	99 692	17	99 684	7 061 144	70.83
18	0.00018	99 675	18	99 666	6 961 460	69.84
19	0.00021	99 657	21	99 647	6 861 794	68.85
20	0.00024	99 636	24	99 625	6 762 147	67.87
21	0.00026	99 613	26	99 600	6 662 522	66.88
22	0.00027	99 587	27	99 574	6 562 922	65.90
23	0.00026	99 561	26	99 547	6 463 348	64.92
24	0.00025	99 535	25	99 522	6 363 801	63.94
25	0.00025	99 509	25	99 497	6 264 279	62.95
26	0.00026	99 484	26	99 472	6 164 782	61.97
27	0.00027	99 459	27	99 445	6 065 310	60.98
28	0.00028	99 431	28	99 417	5 965 865	60.00
29	0.00029	99 403	29	99 389	5 866 448	59.02
30	0.00030	99 374	29	99 360	5 767 059	58.03
31	0.00031	99 345	30	99 330	5 667 699	57.05
32	0.00033	99 315	32	99 298	5 568 369	56.07
33	0.00036	99 282	35	99 265	5 469 071	55.09
34	0.00038	99 247	37	99 228	5 369 806	54.11
35	0.00039	99 209	39	99 190	5 270 578	53.13
36	0.00040	99 171	40	99 151	5 171 388	52.15
37	0.00042	99 131	42	99 110	5 072 237	51.17
38	0.00046	99 089	46	99 066	4 973 127	50.19
39	0.00051	99 043	51	99 018	4 874 060	49.21
40	0.00056	98 992	56	98 965	4 775 042	48.24
41	0.00062	98 937	61	98 907	4 676 077	47.26
42	0.00068	98 876	67	98 843	4 577 170	46.29
43	0.00074	98 809	73	98 773	4 478 328	45.32
44	0.00080	98 736	79	98 697	4 379 554	44.36
45	0.00086	98 657	85	98 615	4 280 857	43.39
46	0.00094	98 572	93	98 526	4 182 242	42.43
47	0.00104	98 479	102	98 429	4 083 715	41.47
48	0.00115	98 377	113	98 321	3 985 286	40.51
49	0.00128	98 264	126	98 202	3 886 965	39.56

## Female

age $x$	probability of dying ${}_nq_x$	number of survivors $l_x$	number of deaths ${}_nd_x$	stationary population		life expectancy ${}_xe_x$
				number of person-years ${}_nL_x$	total person-years $T_x$	
50	0.00142	98 138	139	98 069	3 788 763	38.61
51	0.00156	97 999	153	97 923	3 690 694	37.66
52	0.00170	97 845	166	97 763	3 592 771	36.72
53	0.00183	97 679	179	97 591	3 495 007	35.78
54	0.00196	97 500	191	97 406	3 397 416	34.85
55	0.00209	97 310	203	97 209	3 300 010	33.91
56	0.00221	97 107	215	97 000	3 202 801	32.98
57	0.00235	96 892	228	96 779	3 105 801	32.05
58	0.00249	96 664	241	96 544	3 009 023	31.13
59	0.00265	96 423	255	96 297	2 912 478	30.21
60	0.00284	96 167	273	96 032	2 816 182	29.28
61	0.00306	95 894	294	95 749	2 720 149	28.37
62	0.00332	95 600	318	95 444	2 624 400	27.45
63	0.00361	95 283	344	95 113	2 528 956	26.54
64	0.00390	94 939	371	94 756	2 433 843	25.64
65	0.00423	94 569	400	94 371	2 339 087	24.73
66	0.00463	94 168	436	93 953	2 244 716	23.84
67	0.00510	93 732	478	93 496	2 150 763	22.95
68	0.00562	93 254	524	92 996	2 057 266	22.06
69	0.00619	92 730	574	92 447	1 964 271	21.18
70	0.00682	92 156	628	91 847	1 871 824	20.31
71	0.00756	91 527	692	91 187	1 779 977	19.45
72	0.00840	90 836	763	90 460	1 688 790	18.59
73	0.00932	90 073	839	89 660	1 598 329	17.74
74	0.01036	89 234	924	88 779	1 508 669	16.91
75	0.01155	88 310	1 020	87 808	1 419 890	16.08
76	0.01292	87 290	1 128	86 736	1 332 082	15.26
77	0.01456	86 162	1 255	85 546	1 245 347	14.45
78	0.01648	84 907	1 399	84 221	1 159 801	13.66
79	0.01870	83 508	1 562	82 742	1 075 580	12.88
80	0.02139	81 947	1 752	81 087	992 838	12.12
81	0.02457	80 194	1 970	79 228	911 751	11.37
82	0.02831	78 224	2 215	77 138	832 523	10.64
83	0.03270	76 009	2 485	74 790	755 384	9.94
84	0.03771	73 524	2 772	72 163	680 594	9.26
85	0.04358	70 752	3 084	69 237	608 431	8.60
86	0.05049	67 668	3 416	65 988	539 195	7.97
87	0.05859	64 252	3 765	62 398	473 206	7.36
88	0.06784	60 487	4 104	58 463	410 808	6.79
89	0.07840	56 383	4 421	54 198	352 345	6.25
90	0.09006	51 963	4 680	49 642	298 148	5.74
91	0.10317	47 283	4 878	44 859	248 506	5.26
92	0.11887	42 405	5 040	39 896	203 647	4.80
93	0.13728	37 365	5 130	34 803	163 751	4.38
94	0.15803	32 235	5 094	29 678	128 948	4.00
95	0.18005	27 141	4 887	24 673	99 270	3.66
96	0.20232	22 254	4 503	19 965	74 597	3.35
97	0.22526	17 752	3 999	15 706	54 632	3.08
98	0.24882	13 753	3 422	11 992	38 926	2.83
99	0.27300	10 331	2 820	8 871	26 934	2.61
100	0.29777	7 510	2 236	6 345	18 063	2.41
101	0.32307	5 274	1 704	4 381	11 718	2.22
102	0.34888	3 570	1 246	2 913	7 337	2.06
103	0.37514	2 325	872	1 861	4 425	1.90
104	0.40180	1 453	584	1 140	2 564	1.76
105 -	1.00000	869	869	1 424	1 424	1.64