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# Abridged Life Tables for Japan 2020

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Table A. Abridged Life Tables for Japan, 2020

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## I . Life expectancies at specified ages

In the abridged life tables 2020, life expectancy at birth was 81.64 years for males, increasing by 0.22 from 81.41 in 2019, and 87.74 for females, increasing by 0.30 from 87.45.

The difference in life expectancy at birth between males and females was 6.11 years, increased by 0.08 years from 2019 to 2020.

Life expectancies at specified ages increased for both males and females from 2019 to 2020.

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

Age	Male			Female		
	2020	2019	Difference	2020	2019	Difference
0	81.64	81.41	0.22	87.74	87.45	0.30
5	76.83	76.63	0.20	82.93	82.66	0.27
10	71.85	71.66	0.20	77.96	77.69	0.27
15	66.89	66.69	0.20	72.98	72.72	0.27
20	61.97	61.77	0.20	68.04	67.77	0.27
25	57.12	56.91	0.21	63.12	62.84	0.28
30	52.25	52.03	0.22	58.20	57.91	0.29
35	47.40	47.18	0.23	53.28	53.00	0.29
40	42.57	42.35	0.23	48.40	48.11	0.29
45	37.80	37.57	0.23	43.56	43.26	0.29
50	33.12	32.89	0.24	38.78	38.49	0.29
55	28.58	28.34	0.24	34.09	33.79	0.30
60	24.21	23.97	0.23	29.46	29.17	0.30
65	20.05	19.83	0.23	24.91	24.63	0.29
70	16.18	15.96	0.22	20.49	20.21	0.28
75	12.63	12.41	0.22	16.25	15.97	0.28
80	9.42	9.18	0.24	12.28	12.01	0.27
85	6.67	6.46	0.21	8.76	8.51	0.25
90	4.59	4.41	0.18	5.92	5.71	0.21

**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
2017	81.09	87.26	6.17
2018	81.25	87.32	6.06
2019	81.41	87.45	6.03
2020	81.64	87.74	6.11

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 2020, the number of survivors at age 65 was 89,722 for males per 100,000 hypothetical cohort and 94,569 for females. This means that the survival rate at age 65 was 89.7% for males and 94.6% for females. In the same way, it followed that the survival rate at age 75 was 76.1% for males and 88.4% for females, and the survival rate at age 90 was 28.4% for males and 52.5% for females.

The median length of life, which means the age when exactly half of the cohort remains alive, was 84.58 years for males and 90.53 years for females, which was 2.95 years longer than the life expectancy for males and 2.79 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
2018	98.4	89.5	75.6	26.5	9.6	99.0	94.5	88.1	50.5	26.0
2019	98.4	89.6	75.8	27.2	10.1	99.0	94.5	88.2	51.1	26.7
2020	98.4	89.7	76.1	28.4	11.1	99.0	94.6	88.4	52.5	28.3

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
2018	84.23	81.25	2.98	90.11	87.32	2.79
2019	84.36	81.41	2.95	90.24	87.45	2.79
2020	84.58	81.64	2.95	90.53	87.74	2.79

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	2020*	81.64	87.74	12 325
AFRICA	Algeria	2019	77.2	4 341
	Egypt	2020*	74.3	9 890
	South Africa	2014	59.1	5 878
	Tunisia	2019*	74.5	1 172
NORTH AMERICA	Canada	2017 – 2019*	80.0	3 759
	Costa Rica	2019	77.65	506
	Cuba	2011 – 2013	76.50	1 120
	Mexico	2018	72.2	12 658
	United States	2019*	76.3	32 824
SOUTH AMERICA	Argentina	2015	73.72	4 494
	Brazil	2019*	73.1	21 015
	Chile	2019 – 2020	77.87	1 911
	Colombia	2015 – 2020	73.08	4 940
	Peru	2015 – 2020	73.7	3 213
ASIA	Bangladesh	2019	71.1	16 650
	China	2015*	73.64	139 772
	Cyprus	2017	80.0	88
	India	2014 – 2018*	68.2	131 224
	Iran	2016	72.5	8 308
	Israel	2014 – 2018*	80.55	905
	Malaysia	2020*	72.6	3 258
	Qatar	2018	79.1	280
	Republic of Korea	2019*	80.3	5 134
	Singapore	2020*	81.5	570
	Thailand	2019*	73.0	6 637
	Turkey	2016 – 2018	75.6	8 238
	EUROPE	Austria	2020*	78.94
Belgium		2019*	79.6	1 146
Czechia		2020*	75.30	1 067
Denmark		2019 – 2020*	79.51	581
Finland		2019*	79.16	552
France		2020*	79.10	6 482
Germany		2017 – 2019*	78.63	8 302
Greece		2018	78.87	1 072
Iceland		2020*	81.2	36
Italy		2020*	79.672	6 042
Netherlands		2019*	80.5	1 728
Norway		2020*	81.48	533
Poland		2019*	74.07	3 797
Russian Federation		2018*	67.75	14 351
Spain		2020*	79.60	4 694
Sweden		2020*	80.60	1 023
Switzerland		2019*	81.9	851
Ukraine		2017	67.02	4 215
United Kingdom		2017 – 2019*	79.37	6 680
OCEANIA	Australia	2017 – 2019*	80.85	2 537
	New Zealand	2018 – 2020*	80.29	492

Reference: \*In Hong Kong of 2020, life expectancy at birth for males was 82.71 years and that for females was 88.14 years.  
(Population: 751 ten thousands)

Note: Population in this table means mid-year estimated population in 2019 (in cases of Italy a 2018, and Russian Federation 2013).

On the other hand, population of Japan was estimated population at Oct.1, 2020.

Source: Demographic Yearbook 2019 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 2020, 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 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 and cerebrovascular diseases was under 50 percent at all the ages for males and females, comparing the data in 2019, it increased for males, however it decreased for females at all the ages of 0, 65, 75 and 90 years.

**Table 6. Mortality probability by causes of death, 2020**

Cause of death	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	28.24	20.14	28.11	18.53	25.27	16.36	15.87	9.79
Heart diseases (excluding hypertensive heart diseases)	14.43	16.44	14.49	17.01	14.76	17.47	16.46	18.39
Cerebrovascular diseases	6.99	7.78	6.98	7.86	7.02	7.95	6.34	7.62
Pneumonia	7.08	5.33	7.69	5.58	8.46	5.82	10.31	6.33
Accidents	3.08	2.32	2.84	2.27	2.84	2.24	2.75	1.91
Traffic accidents(regrouped)	0.33	0.14	0.18	0.11	0.15	0.09	0.06	0.03
Suicide	1.73	0.86	0.53	0.29	0.38	0.19	0.18	0.06
Chronic obstructive pulmonary disease	1.96	0.38	2.14	0.40	2.28	0.40	2.14	0.33
Renal failure	2.09	1.94	2.25	2.02	2.40	2.07	2.66	1.99
Aortic aneurysm and dissection	1.26	1.26	1.20	1.29	1.15	1.24	0.92	0.92
Diseases of liver	1.39	0.76	0.97	0.66	0.73	0.58	0.37	0.29
Diabetes mellitus	1.00	0.86	0.96	0.87	0.89	0.85	0.59	0.69
Hypertensive diseases	0.63	0.96	0.63	1.01	0.63	1.04	0.82	1.23
Tuberculosis	0.17	0.12	0.19	0.13	0.20	0.14	0.27	0.13
COVID-19	0.28	0.20	0.29	0.20	0.29	0.21	0.22	0.18
Senility	7.27	18.15	8.10	19.19	9.45	20.48	17.35	28.43
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases (regrouped)	49.66	44.36	49.57	43.41	47.05	41.78	38.67	35.80

## 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 2020, the potential years of life lost by malignant neoplasms were the longest at age 0 and 65 for both males and females, followed by heart diseases, cerebrovascular diseases and pneumonia. 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 for females. However, some causes changed ranks at age 90: malignant neoplasms and heart diseases were the longest, followed by pneumonia and cerebrovascular diseases for males, heart diseases was the longest, followed by malignant neoplasms, followed by cerebrovascular diseases and pneumonia at the same year for females.

Potential years of life lost by malignant neoplasms, heart diseases and cerebrovascular diseases was 6.73 years for males and 5.44 years for females at age 0, 5.53 years for males and 4.37 years for females at age 65, 4.18 years for males and 3.57 years for females at age 75, 1.80 years for both males and females at age 90.

**Table 7. Potential years of life lost, 2020**

Cause of death	(years)							
	Age 0		Age 65		Age 75		Age 90	
	Male	Female	Male	Female	Male	Female	Male	Female
Malignant neoplasms	3.57	2.87	2.95	2.02	2.04	1.41	0.62	0.43
Heart diseases (excluding hypertensive heart diseases)	1.45	1.26	1.13	1.19	0.94	1.12	0.62	0.79
Cerebrovascular diseases	0.71	0.66	0.55	0.57	0.45	0.51	0.23	0.31
Pneumonia	0.50	0.34	0.50	0.34	0.49	0.33	0.37	0.25
Accidents	0.40	0.24	0.22	0.18	0.18	0.15	0.09	0.07
Traffic accidents(regrouped)	0.09	0.03	0.02	0.01	0.01	0.01	0.00	0.00
Suicide	0.58	0.33	0.06	0.04	0.03	0.02	0.01	0.00
Chronic obstructive pulmonary disease	0.14	0.03	0.15	0.03	0.14	0.03	0.07	0.01
Renal failure	0.16	0.14	0.15	0.14	0.14	0.13	0.09	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	0.25	0.11	0.10	0.07	0.06	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	0.06	0.06	0.04	0.06	0.03	0.05	0.03	0.04
Tuberculosis	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COVID-19	0.03	0.02	0.02	0.01	0.02	0.01	0.01	0.01
Malignant neoplasms, heart diseases (excluding hypertensive heart diseases) and cerebrovascular diseases	6.73	5.44	5.53	4.37	4.18	3.57	1.80	1.80

**Table A. Abridged Life Tables for Japan, 2020**

**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)	0.00067	100 000	67	1 917	8 163 602	81.64
1	0.00005	99 933	5	1 916	8 161 685	81.67
2	0.00008	99 928	8	1 916	8 159 768	81.66
3	0.00004	99 920	4	1 916	8 157 852	81.64
4	0.00020	99 916	20	8 987	8 155 936	81.63
2 (M)	0.00013	99 896	13	8 324	8 146 949	81.55
3	0.00030	99 883	30	24 967	8 138 625	81.48
6	0.00036	99 852	36	49 916	8 113 658	81.26
0 (Y)	0.00184	100 000	184	99 860	8 163 602	81.64
1	0.00023	99 816	23	99 802	8 063 742	80.79
2	0.00016	99 793	16	99 785	7 963 940	79.80
3	0.00011	99 777	11	99 771	7 864 155	78.82
4	0.00008	99 766	8	99 762	7 764 384	77.83
5	0.00006	99 758	6	99 755	7 664 622	76.83
6	0.00006	99 751	6	99 749	7 564 868	75.84
7	0.00006	99 746	6	99 743	7 465 119	74.84
8	0.00005	99 740	5	99 737	7 365 376	73.85
9	0.00005	99 735	5	99 732	7 265 639	72.85
10	0.00006	99 729	6	99 726	7 165 907	71.85
11	0.00007	99 723	7	99 720	7 066 181	70.86
12	0.00009	99 716	9	99 712	6 966 461	69.86
13	0.00011	99 707	11	99 702	6 866 749	68.87
14	0.00014	99 697	14	99 690	6 767 047	67.88
15	0.00018	99 683	18	99 675	6 667 356	66.89
16	0.00023	99 665	23	99 654	6 567 682	65.90
17	0.00028	99 643	28	99 629	6 468 027	64.91
18	0.00033	99 615	33	99 599	6 368 398	63.93
19	0.00038	99 582	38	99 564	6 268 799	62.95
20	0.00043	99 545	43	99 524	6 169 235	61.97
21	0.00048	99 502	48	99 478	6 069 712	61.00
22	0.00051	99 454	51	99 429	5 970 234	60.03
23	0.00051	99 403	51	99 377	5 870 805	59.06
24	0.00050	99 352	50	99 327	5 771 428	58.09
25	0.00049	99 302	49	99 278	5 672 101	57.12
26	0.00049	99 253	48	99 229	5 572 823	56.15
27	0.00049	99 205	49	99 181	5 473 594	55.17
28	0.00050	99 156	49	99 132	5 374 414	54.20
29	0.00050	99 107	50	99 082	5 275 282	53.23
30	0.00052	99 057	52	99 031	5 176 200	52.25
31	0.00056	99 005	55	98 978	5 077 169	51.28
32	0.00060	98 950	60	98 920	4 978 191	50.31
33	0.00065	98 890	64	98 858	4 879 271	49.34
34	0.00068	98 826	67	98 793	4 780 413	48.37
35	0.00071	98 759	70	98 724	4 681 620	47.40
36	0.00072	98 689	71	98 654	4 582 896	46.44
37	0.00074	98 618	73	98 582	4 484 242	45.47
38	0.00078	98 545	77	98 507	4 385 661	44.50
39	0.00085	98 468	83	98 427	4 287 154	43.54
40	0.00093	98 385	92	98 340	4 188 726	42.57
41	0.00103	98 293	101	98 243	4 090 387	41.61
42	0.00113	98 192	111	98 137	3 992 143	40.66
43	0.00124	98 081	121	98 021	3 894 006	39.70
44	0.00136	97 959	133	97 894	3 795 986	38.75
45	0.00149	97 826	146	97 754	3 698 092	37.80
46	0.00164	97 680	160	97 601	3 600 338	36.86
47	0.00180	97 520	176	97 433	3 502 737	35.92
48	0.00198	97 344	193	97 249	3 405 303	34.98
49	0.00221	97 151	215	97 046	3 308 054	34.05

## 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 $T_x$	
50	0.00245	96 936	237	96 820	3 211 009	33.12
51	0.00269	96 699	260	96 571	3 114 189	32.20
52	0.00294	96 440	283	96 300	3 017 617	31.29
53	0.00322	96 156	310	96 004	2 921 317	30.38
54	0.00356	95 846	341	95 679	2 825 313	29.48
55	0.00394	95 505	376	95 320	2 729 635	28.58
56	0.00435	95 129	414	94 925	2 634 315	27.69
57	0.00475	94 715	450	94 493	2 539 390	26.81
58	0.00517	94 266	487	94 025	2 444 896	25.94
59	0.00565	93 778	530	93 517	2 350 871	25.07
60	0.00623	93 248	581	92 962	2 257 354	24.21
61	0.00690	92 668	639	92 353	2 164 391	23.36
62	0.00764	92 028	703	91 682	2 072 038	22.52
63	0.00841	91 326	768	90 947	1 980 356	21.68
64	0.00923	90 558	836	90 145	1 889 409	20.86
65	0.01011	89 722	907	89 274	1 799 263	20.05
66	0.01113	88 815	988	88 328	1 709 989	19.25
67	0.01233	87 826	1 083	87 293	1 621 661	18.46
68	0.01369	86 743	1 187	86 158	1 534 368	17.69
69	0.01518	85 556	1 299	84 916	1 448 210	16.93
70	0.01676	84 257	1 412	83 560	1 363 294	16.18
71	0.01830	82 845	1 516	82 095	1 279 734	15.45
72	0.01990	81 329	1 618	80 528	1 197 639	14.73
73	0.02175	79 710	1 734	78 854	1 117 111	14.01
74	0.02393	77 976	1 866	77 055	1 038 257	13.32
75	0.02642	76 110	2 011	75 117	961 202	12.63
76	0.02913	74 100	2 158	73 033	886 085	11.96
77	0.03207	71 941	2 307	70 800	813 052	11.30
78	0.03521	69 634	2 452	68 421	742 252	10.66
79	0.03894	67 183	2 616	65 889	673 831	10.03
80	0.04344	64 567	2 805	63 181	607 942	9.42
81	0.04871	61 762	3 009	60 275	544 761	8.82
82	0.05481	58 753	3 220	57 161	484 486	8.25
83	0.06168	55 533	3 425	53 837	427 326	7.69
84	0.06955	52 108	3 624	50 312	373 488	7.17
85	0.07856	48 484	3 809	46 594	323 177	6.67
86	0.08885	44 675	3 969	42 702	276 583	6.19
87	0.10034	40 706	4 084	38 671	233 881	5.75
88	0.11306	36 621	4 140	34 553	195 210	5.33
89	0.12677	32 481	4 118	30 416	160 658	4.95
90	0.14104	28 363	4 000	26 348	130 241	4.59
91	0.15353	24 363	3 740	22 469	103 893	4.26
92	0.16870	20 622	3 479	18 860	81 425	3.95
93	0.18531	17 143	3 177	15 528	62 565	3.65
94	0.20345	13 966	2 842	12 517	47 037	3.37
95	0.22321	11 125	2 483	9 853	34 520	3.10
96	0.24467	8 642	2 114	7 554	24 667	2.85
97	0.26791	6 527	1 749	5 623	17 114	2.62
98	0.29300	4 779	1 400	4 050	11 491	2.40
99	0.31997	3 378	1 081	2 813	7 440	2.20
100	0.34884	2 297	801	1 875	4 627	2.01
101	0.37960	1 496	568	1 195	2 752	1.84
102	0.41220	928	383	723	1 557	1.68
103	0.44656	546	244	414	834	1.53
104	0.48251	302	146	222	420	1.39
105 -	1.00000	156	156	198	198	1.26



**Table A. Abridged Life Tables for Japan, 2020**

**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)	0.00064	100 000	64	1 917	8 774 406	87.74
1	0.00008	99 936	8	1 916	8 772 489	87.78
2	0.00005	99 927	5	1 916	8 770 573	87.77
3	0.00006	99 923	6	1 916	8 768 657	87.75
4	0.00016	99 917	16	8 987	8 766 740	87.74
2 (M)	0.00012	99 901	12	8 325	8 757 753	87.66
3	0.00028	99 889	28	24 969	8 749 429	87.59
6	0.00033	99 861	33	49 921	8 724 460	87.37
0 (Y)	0.00172	100 000	172	99 868	8 774 406	87.74
1	0.00016	99 828	16	99 817	8 674 539	86.89
2	0.00012	99 812	12	99 807	8 574 722	85.91
3	0.00009	99 800	9	99 796	8 474 915	84.92
4	0.00007	99 792	7	99 788	8 375 119	83.93
5	0.00007	99 785	7	99 781	8 275 331	82.93
6	0.00007	99 778	7	99 775	8 175 549	81.94
7	0.00006	99 771	6	99 768	8 075 775	80.94
8	0.00006	99 765	6	99 762	7 976 006	79.95
9	0.00005	99 759	5	99 756	7 876 244	78.95
10	0.00005	99 754	5	99 751	7 776 488	77.96
11	0.00006	99 748	6	99 745	7 676 737	76.96
12	0.00007	99 742	7	99 739	7 576 992	75.97
13	0.00008	99 736	8	99 732	7 477 253	74.97
14	0.00009	99 728	9	99 723	7 377 521	73.98
15	0.00011	99 719	11	99 713	7 277 798	72.98
16	0.00014	99 707	14	99 701	7 178 084	71.99
17	0.00017	99 693	17	99 685	7 078 384	71.00
18	0.00019	99 676	19	99 667	6 978 699	70.01
19	0.00020	99 657	20	99 647	6 879 032	69.03
20	0.00022	99 637	21	99 626	6 779 385	68.04
21	0.00023	99 615	23	99 604	6 679 759	67.06
22	0.00024	99 593	24	99 581	6 580 155	66.07
23	0.00025	99 569	25	99 556	6 480 574	65.09
24	0.00025	99 544	25	99 532	6 381 017	64.10
25	0.00025	99 519	25	99 507	6 281 486	63.12
26	0.00026	99 494	26	99 481	6 181 979	62.13
27	0.00026	99 468	26	99 455	6 082 498	61.15
28	0.00027	99 442	27	99 429	5 983 042	60.17
29	0.00028	99 416	27	99 402	5 883 613	59.18
30	0.00028	99 388	27	99 374	5 784 212	58.20
31	0.00028	99 361	28	99 347	5 684 837	57.21
32	0.00029	99 333	29	99 319	5 585 490	56.23
33	0.00031	99 305	31	99 289	5 486 171	55.25
34	0.00035	99 274	35	99 257	5 386 881	54.26
35	0.00039	99 239	39	99 220	5 287 625	53.28
36	0.00043	99 200	43	99 179	5 188 405	52.30
37	0.00047	99 157	46	99 134	5 089 226	51.32
38	0.00050	99 111	50	99 086	4 990 092	50.35
39	0.00054	99 061	54	99 035	4 891 006	49.37
40	0.00058	99 007	58	98 979	4 791 971	48.40
41	0.00063	98 949	62	98 919	4 692 993	47.43
42	0.00068	98 887	67	98 854	4 594 074	46.46
43	0.00074	98 820	73	98 784	4 495 220	45.49
44	0.00082	98 747	81	98 707	4 396 436	44.52
45	0.00091	98 666	90	98 622	4 297 729	43.56
46	0.00100	98 576	98	98 528	4 199 108	42.60
47	0.00109	98 478	107	98 425	4 100 580	41.64
48	0.00119	98 371	117	98 313	4 002 155	40.68
49	0.00132	98 254	130	98 190	3 903 842	39.73

## 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	0.00145	98 124	143	98 054	3 805 652	38.78
51	0.00159	97 981	155	97 905	3 707 598	37.84
52	0.00170	97 826	167	97 744	3 609 693	36.90
53	0.00181	97 660	177	97 572	3 511 949	35.96
54	0.00193	97 483	188	97 390	3 414 377	35.03
55	0.00205	97 295	200	97 196	3 316 987	34.09
56	0.00219	97 095	213	96 990	3 219 791	33.16
57	0.00234	96 882	226	96 770	3 122 801	32.23
58	0.00248	96 656	239	96 537	3 026 030	31.31
59	0.00263	96 417	253	96 291	2 929 493	30.38
60	0.00281	96 163	270	96 030	2 833 202	29.46
61	0.00305	95 893	292	95 749	2 737 172	28.54
62	0.00333	95 600	318	95 444	2 641 423	27.63
63	0.00360	95 282	343	95 113	2 545 980	26.72
64	0.00390	94 939	370	94 756	2 450 867	25.82
65	0.00422	94 569	399	94 372	2 356 111	24.91
66	0.00459	94 170	432	93 957	2 261 738	24.02
67	0.00503	93 738	471	93 506	2 167 781	23.13
68	0.00554	93 267	516	93 013	2 074 275	22.24
69	0.00612	92 751	568	92 471	1 981 262	21.36
70	0.00679	92 183	626	91 875	1 888 791	20.49
71	0.00750	91 557	686	91 219	1 796 916	19.63
72	0.00825	90 871	749	90 501	1 705 697	18.77
73	0.00910	90 121	820	89 717	1 615 196	17.92
74	0.01007	89 301	900	88 858	1 525 479	17.08
75	0.01122	88 401	992	87 914	1 436 621	16.25
76	0.01258	87 410	1 100	86 870	1 348 707	15.43
77	0.01424	86 310	1 229	85 707	1 261 838	14.62
78	0.01618	85 081	1 376	84 406	1 176 130	13.82
79	0.01849	83 705	1 548	82 946	1 091 725	13.04
80	0.02117	82 156	1 739	81 304	1 008 779	12.28
81	0.02424	80 417	1 949	79 461	927 475	11.53
82	0.02786	78 468	2 186	77 395	848 014	10.81
83	0.03213	76 282	2 451	75 079	770 619	10.10
84	0.03713	73 831	2 741	72 485	695 540	9.42
85	0.04295	71 090	3 053	69 590	623 054	8.76
86	0.04968	68 036	3 380	66 374	553 465	8.13
87	0.05747	64 657	3 716	62 827	487 090	7.53
88	0.06669	60 941	4 064	58 938	424 263	6.96
89	0.07726	56 877	4 395	54 705	365 326	6.42
90	0.08880	52 482	4 660	50 171	310 620	5.92
91	0.10113	47 822	4 836	45 415	260 449	5.45
92	0.11446	42 986	4 920	40 529	215 034	5.00
93	0.12914	38 066	4 916	35 603	174 505	4.58
94	0.14481	33 150	4 801	30 739	138 902	4.19
95	0.16607	28 349	4 708	25 983	108 163	3.82
96	0.18745	23 642	4 432	21 397	82 179	3.48
97	0.21064	19 210	4 046	17 151	60 782	3.16
98	0.23573	15 164	3 574	13 334	43 632	2.88
99	0.26276	11 589	3 045	10 021	30 297	2.61
100	0.29177	8 544	2 493	7 251	20 276	2.37
101	0.32278	6 051	1 953	5 031	13 025	2.15
102	0.35576	4 098	1 458	3 330	7 994	1.95
103	0.39064	2 640	1 031	2 092	4 664	1.77
104	0.42732	1 609	687	1 240	2 572	1.60
105 -	1.00000	921	921	1 332	1 332	1.45