The 23rd Life Tables

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Introduction

In a life table, we consider a hypothetical cohort and assume that it is subject to the age-specific mortality rates realized by an actual population for a particular period. For example, a life table for 2020 assumes a hypothetical cohort subject, throughout its lifetime, to the age-specific mortality rates realized by the actual population for 2020.

We here present the Complete Life Tables for Japan 2020. In Japan, the Ministry of Health, Labour and Welfare has prepared two series of life tables ——the Complete and the Abridged Life Tables. The former have been constructed every five years based on the Annual Vital Statistics and the Population Census. The latter have been on the Provisional Annual Vital Statistics and the Population Estimates. The Complete Life Tables for Japan were first prepared for the period 1891-98 and the life tables presented here are the 23rd ones.

Trends of the life expectancies at selected ages

Male

age	1st	2nd	3rd	4th	5th	6th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd
	1891–1898	1899–1903	1909–1913	1921–1925	1926–1930	1935–1936	1947	1950–1952	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020
0	42.8	43.97	44.25	42.06	44.82	46.92	50.06	59.57	63.60	65.32	67.74	69.31	71.73	73.35	74.78	75.92	76.38	77.72	78.56	79.55	80.75	81.56
1	49.2	51.11	51.61	49.14	51.07	51.95	53.74	62.14	65.37	66.56	68.16	69.35	71.53	72.96	74.22	75.30	75.73	76.99	77.79	78.75	79.92	80.71
2	50.5	52.04	52.97	50.62	52.35	52.92	54.57	61.86	64.74	65.81	67.31	68.47	70.63	72.03	73.28	74.36	74.78	76.03	76.83	77.78	78.94	79.73
3	51.0	52.41	53.23	50.96	52.54	53.02	54.63	61.42	64.04	65.00	66.42	67.55	69.70	71.09	72.33	73.40	73.82	75.06	75.85	76.80	77.96	78.74
4	51.0	52.31	53.02	50.81	52.33	52.74	54.23	60.82	63.27	64.15	65.51	66.62	68.75	70.14	71.36	72.43	72.85	74.08	74.87	75.81	76.97	77.75
5	50.7	51.90	52.57	50.35	51.85	52.22	53.61	60.10	62.45	63.26	64.57	65.67	67.80	69.17	70.39	71.45	71.87	73.10	73.88	74.82	75.98	76.76
10	47.5	48.23	48.82	46.53	47.93	48.25	49.49	55.68	57.89	58.57	59.80	60.85	62.94	64.28	65.47	66.53	66.94	68.15	68.93	69.85	71.02	71.78
15	43.4	44.02	44.62	42.31	43.58	43.85	44.93	50.95	53.09	53.74	54.93	55.97	58.03	59.35	60.54	61.58	62.00	63.19	63.97	64.89	66.05	66.81
20	39.8	40.35	41.06	39.10	40.18	40.41	40.89	46.43	48.47	49.08	50.18	51.26	53.27	54.56	55.74	56.77	57.16	58.33	59.08	59.99	61.13	61.90
25	36.5	37.02	37.84	36.06	37.01	37.35	37.60	42.24	44.09	44.58	45.54	46.58	48.54	49.79	50.97	51.98	52.37	53.52	54.25	55.16	56.28	57.05
30	33.0	33.44	34.31	32.59	33.43	33.89	34.23	38.10	39.70	40.07	40.90	41.90	43.78	45.00	46.16	47.16	47.55	48.69	49.43	50.33	51.43	52.18
35	29.4	29.73	30.58	28.87	29.61	30.10	30.62	33.87	35.27	35.52	36.28	37.24	39.05	40.22	41.36	42.35	42.74	43.89	44.62	45.51	46.58	47.33
40	25.7	26.03	26.82	25.13	25.74	26.22	26.88	29.65	30.85	31.02	31.73	32.68	34.41	35.52	36.63	37.58	37.96	39.13	39.86	40.73	41.77	42.50
45	22.2	22.42	23.14	21.49	22.02	22.43	23.12	25.52	26.52	26.61	27.28	28.22	29.92	30.94	32.01	32.92	33.28	34.45	35.18	36.02	37.01	37.72
50	18.8	18.97	19.61	18.02	18.49	18.85	19.44	21.54	22.41	22.39	23.00	23.88	25.56	26.57	27.56	28.40	28.75	29.91	30.63	31.42	32.36	33.04
55	15.7	15.73	16.30	14.77	15.21	15.55	15.97	17.79	18.54	18.45	18.94	19.76	21.35	22.35	23.36	24.06	24.41	25.58	26.25	26.98	27.85	28.50
60	12.8	12.76	13.28	11.87	12.23	12.55	12.83	14.36	14.97	14.84	15.20	15.93	17.38	18.31	19.34	20.01	20.28	21.44	22.09	22.75	23.51	24.12
65	10.2	10.14	10.58	9.31	9.64	9.89	10.16	11.35	11.82	11.62	11.88	12.50	13.72	14.56	15.52	16.22	16.48	17.54	18.13	18.74	19.41	19.97
70	8.0	7.89	8.26	7.11	7.43	7.62	7.93	8.82	9.13	8.85	8.99	9.56	10.53	11.18	12.00	12.66	12.97	13.97	14.39	14.96	15.59	16.09
75	6.2	6.00	6.31	5.31	5.61	5.72	6.09	6.73	6.97	6.60	6.63	7.14	7.85	8.34	8.93	9.50	9.81	10.75	11.07	11.45	12.03	12.54
80	4.8	4.44	4.70	3.87	4.15	4.20	4.62	5.04	5.25	4.91	4.81	5.26	5.70	6.08	6.51	6.88	7.13	7.96	8.22	8.42	8.83	9.34
85	3.7	3.19	3.40	2.77	3.02	3.03	3.46	3.72	3.90	3.69	3.51	3.82	4.14	4.39	4.64	4.93	5.05	5.76	5.89	6.00	6.22	6.59
90	2.6	2.22	2.38	1.95	2.17	2.14	2.56	2.70	2.87	2.69	2.56	2.75	3.05	3.17	3.28	3.51	3.58	4.10	4.15	4.19	4.27	4.49

Female

age	1st	2nd	3rd	4th	5th	6th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd
	1891–1898	1899–1903	1909–1913	1921–1925	1926–1930	1935–1936	1947	1950–1952	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020
0	44.3	44.85	44.73	43.20	46.54	49.63	53.96	62.97	67.75	70.19	72.92	74.66	76.89	78.76	80.48	81.90	82.85	84.60	85.52	86.30	86.99	87.71
1	50.1	51.17	51.24	49.42	52.10	54.07	57.40	65.25	69.34	71.17	73.13	74.52	76.56	78.29	79.89	81.25	82.17	83.86	84.73	85.48	86.14	86.86
2	51.3	52.06	52.55	50.86	53.37	55.02	58.30	65.01	68.70	70.39	72.26	73.62	75.65	77.35	78.95	80.30	81.21	82.89	83.76	84.51	85.17	85.88
3	51.7	52.44	52.83	51.22	53.59	55.13	58.42	64.58	68.00	69.57	71.35	72.69	74.71	76.40	77.98	79.33	80.25	81.92	82.78	83.53	84.19	84.89
4	51.8	52.36	52.61	51.12	53.43	54.89	58.06	64.00	67.24	68.69	70.42	71.75	73.75	75.43	77.01	78.35	79.27	80.93	81.80	82.54	83.20	83.90
5	51.5	51.97	52.16	50.71	53.00	54.40	57.45	63.28	66.41	67.79	69.47	70.78	72.78	74.46	76.03	77.37	78.29	79.95	80.81	81.55	82.20	82.90
10	48.1	48.34	48.51	47.00	49.18	50.47	53.31	58.82	61.78	63.04	64.62	65.91	67.87	69.53	71.08	72.42	73.34	74.98	75.84	76.58	77.23	77.93
15	44.2	44.36	44.67	43.12	45.11	46.33	48.81	54.10	56.96	58.17	59.71	60.99	62.94	64.58	66.13	67.46	68.39	70.01	70.87	71.61	72.26	72.95
20	40.8	41.06	41.67	40.38	42.12	43.22	44.87	49.58	52.25	53.39	54.85	56.11	58.04	59.66	61.20	62.54	63.46	65.08	65.93	66.67	67.31	68.01
25	37.6	38.02	38.83	37.72	39.23	40.23	41.48	45.35	47.73	48.74	50.06	51.30	53.19	54.77	56.30	57.63	58.56	60.16	61.02	61.75	62.37	63.09
30	34.4	34.84	35.72	34.69	35.98	36.88	37.95	41.20	43.25	44.10	45.31	46.50	48.35	49.90	51.41	52.73	53.65	55.26	56.12	56.83	57.45	58.17
35	31.1	31.54	32.42	31.44	32.53	33.30	34.24	36.99	38.78	39.48	40.58	41.73	43.53	45.04	46.54	47.84	48.77	50.37	51.23	51.94	52.55	53.25
40	27.8	28.19	29.03	28.09	29.01	29.65	30.39	32.77	34.34	34.90	35.91	37.01	38.76	40.23	41.72	43.00	43.91	45.52	46.38	47.08	47.67	48.37
45	24.4	24.71	25.49	24.58	25.39	25.91	26.52	28.58	29.95	30.39	31.31	32.37	34.06	35.49	36.96	38.22	39.12	40.73	41.57	42.27	42.83	43.52
50	20.8	21.11	21.84	20.95	21.67	22.15	22.64	24.47	25.70	26.03	26.85	27.84	29.46	30.84	32.28	33.51	34.43	36.01	36.84	37.52	38.07	38.75
55	17.4	17.61	18.31	17.43	18.09	18.54	18.92	20.53	21.61	21.83	22.54	23.47	25.00	26.30	27.71	28.90	29.82	31.40	32.20	32.86	33.38	34.06
60	14.2	14.32	14.99	14.12	14.68	15.07	15.39	16.81	17.72	17.83	18.42	19.27	20.68	21.89	23.24	24.39	25.31	26.85	27.66	28.28	28.77	29.42
65	11.4	11.35	11.94	11.10	11.58	11.88	12.22	13.36	14.13	14.10	14.56	15.34	16.56	17.68	18.94	20.03	20.94	22.42	23.19	23.80	24.24	24.88
70	8.8	8.77	9.28	8.44	8.88	9.04	9.41	10.34	10.95	10.78	11.09	11.75	12.78	13.73	14.89	15.87	16.76	18.19	18.88	19.43	19.85	20.45
75	6.7	6.61	7.09	6.21	6.59	6.62	7.03	7.76	8.28	8.01	8.11	8.70	9.47	10.24	11.19	12.06	12.88	14.19	14.83	15.27	15.64	16.22
80	5.1	4.85	5.26	4.41	4.73	4.67	5.09	5.64	6.12	5.88	5.80	6.27	6.76	7.33	8.07	8.72	9.47	10.60	11.13	11.46	11.71	12.25
85	3.9	3.45	3.77	3.04	3.30	3.17	3.58	3.97	4.42	4.26	4.19	4.46	4.79	5.12	5.60	6.10	6.67	7.61	7.99	8.15	8.30	8.73
90	2.7	2.36	2.61	2.04	2.24	2.09	2.45	2.72	3.12	2.99	2.96	3.26	3.39	3.55	3.82	4.18	4.64	5.29	5.53	5.53	5.56	5.85

Table A.The 23rd Life Tables, 2020

Male

age	number of survivors	number of deaths	probability of surviving	probability of dying	force of mortality	stationary population		life expectancy
						number of person-years	total person-years	
x	l_x	${}_nd_x$	${}_np_x$	${}_nq_x$	μ_x	${}_nL_x$	T_x	$\overset{\circ}{e}_x$
0(w)	100 000	67	0.99933	0.00067	0.07181	1 917	8 156 116	81.56
1	99 933	5	0.99995	0.00005	0.00991	1 916	8 154 199	81.60
2	99 928	8	0.99992	0.00008	0.00085	1 916	8 152 283	81.58
3	99 920	4	0.99996	0.00004	0.00367	1 916	8 150 367	81.57
4	99 916	20	0.99980	0.00020	0.00174	8 987	8 148 450	81.55
2(m)	99 896	13	0.99987	0.00013	0.00197	8 324	8 139 463	81.48
3	99 883	30	0.99970	0.00030	0.00137	24 967	8 131 139	81.41
6	99 852	36	0.99964	0.00036	0.00100	49 916	8 106 172	81.18
0(y)	100 000	184	0.99816	0.00184	0.07181	99 860	8 156 116	81.56
1	99 816	24	0.99976	0.00024	0.00048	99 801	8 056 256	80.71
2	99 792	17	0.99983	0.00017	0.00014	99 784	7 956 455	79.73
3	99 775	11	0.99989	0.00011	0.00014	99 769	7 856 671	78.74
4	99 764	8	0.99992	0.00008	0.00009	99 760	7 756 902	77.75
5	99 756	6	0.99994	0.00006	0.00007	99 753	7 657 142	76.76
6	99 750	6	0.99994	0.00006	0.00006	99 747	7 557 389	75.76
7	99 744	5	0.99995	0.00005	0.00006	99 741	7 457 642	74.77
8	99 739	5	0.99995	0.00005	0.00005	99 736	7 357 901	73.77
9	99 733	5	0.99995	0.00005	0.00005	99 731	7 258 165	72.78
10	99 728	6	0.99994	0.00006	0.00006	99 725	7 158 434	71.78
11	99 722	7	0.99993	0.00007	0.00007	99 719	7 058 709	70.78
12	99 715	9	0.99991	0.00009	0.00008	99 711	6 958 990	69.79
13	99 706	11	0.99989	0.00011	0.00009	99 701	6 859 280	68.79
14	99 696	14	0.99986	0.00014	0.00012	99 689	6 759 579	67.80
15	99 682	17	0.99982	0.00018	0.00015	99 674	6 659 889	66.81
16	99 664	22	0.99978	0.00022	0.00020	99 654	6 560 216	65.82
17	99 642	28	0.99972	0.00028	0.00025	99 629	6 460 562	64.84
18	99 615	32	0.99967	0.00033	0.00030	99 599	6 360 933	63.86
19	99 582	38	0.99962	0.00038	0.00035	99 564	6 261 335	62.88
20	99 544	44	0.99956	0.00044	0.00041	99 523	6 161 771	61.90
21	99 501	49	0.99951	0.00049	0.00047	99 477	6 062 248	60.93
22	99 452	52	0.99948	0.00052	0.00051	99 426	5 962 771	59.96
23	99 400	52	0.99948	0.00052	0.00053	99 374	5 863 346	58.99
24	99 348	50	0.99949	0.00051	0.00052	99 322	5 763 972	58.02
25	99 297	49	0.99951	0.00049	0.00050	99 273	5 664 649	57.05
26	99 248	48	0.99951	0.00049	0.00049	99 224	5 565 377	56.08
27	99 200	48	0.99951	0.00049	0.00049	99 176	5 466 152	55.10
28	99 152	49	0.99951	0.00049	0.00049	99 128	5 366 976	54.13
29	99 103	49	0.99950	0.00050	0.00049	99 079	5 267 849	53.16
30	99 054	51	0.99948	0.00052	0.00050	99 028	5 168 770	52.18
31	99 003	55	0.99945	0.00055	0.00053	98 976	5 069 742	51.21
32	98 948	59	0.99940	0.00060	0.00057	98 919	4 970 766	50.24
33	98 889	63	0.99936	0.00064	0.00062	98 857	4 871 847	49.27
34	98 825	67	0.99932	0.00068	0.00066	98 792	4 772 990	48.30
35	98 759	69	0.99930	0.00070	0.00069	98 724	4 674 198	47.33
36	98 690	70	0.99929	0.00071	0.00071	98 654	4 575 473	46.36
37	98 619	72	0.99927	0.00073	0.00072	98 583	4 476 819	45.40
38	98 547	76	0.99923	0.00077	0.00075	98 509	4 378 236	44.43
39	98 471	83	0.99916	0.00084	0.00080	98 430	4 279 727	43.46
40	98 388	91	0.99907	0.00093	0.00088	98 343	4 181 297	42.50
41	98 297	100	0.99898	0.00102	0.00097	98 248	4 082 953	41.54
42	98 196	110	0.99888	0.00112	0.00107	98 142	3 984 706	40.58
43	98 086	121	0.99877	0.00123	0.00118	98 027	3 886 564	39.62
44	97 965	132	0.99865	0.00135	0.00129	97 900	3 788 537	38.67
45	97 833	146	0.99851	0.00149	0.00142	97 761	3 690 637	37.72
46	97 687	160	0.99836	0.00164	0.00156	97 609	3 592 875	36.78
47	97 528	175	0.99821	0.00179	0.00171	97 442	3 495 267	35.84
48	97 353	192	0.99802	0.00198	0.00188	97 258	3 397 825	34.90
49	97 161	213	0.99781	0.00219	0.00208	97 056	3 300 566	33.97

age	number of survivors	number of deaths	probability of surviving	probability of dying	force of mortality	stationary population		life expectancy
						number of person-years	total person-years	
x	l_x	${}_nd_x$	${}_np_x$	${}_nq_x$	μ_x	${}_nL_x$	T_x	$\mathring{e}_x$
50	96 948	236	0.99757	0.00243	0.00231	96 832	3 203 510	33.04
51	96 712	260	0.99731	0.00269	0.00256	96 584	3 106 679	32.12
52	96 452	285	0.99705	0.00295	0.00282	96 311	3 010 095	31.21
53	96 167	311	0.99676	0.00324	0.00309	96 014	2 913 784	30.30
54	95 856	341	0.99644	0.00356	0.00340	95 688	2 817 770	29.40
55	95 515	375	0.99608	0.00392	0.00374	95 330	2 722 082	28.50
56	95 140	411	0.99568	0.00432	0.00413	94 937	2 626 752	27.61
57	94 729	448	0.99527	0.00473	0.00453	94 508	2 531 814	26.73
58	94 280	487	0.99483	0.00517	0.00495	94 040	2 437 307	25.85
59	93 793	530	0.99434	0.00566	0.00541	93 532	2 343 266	24.98
60	93 263	582	0.99376	0.00624	0.00595	92 977	2 249 734	24.12
61	92 681	640	0.99309	0.00691	0.00658	92 366	2 156 758	23.27
62	92 041	704	0.99235	0.00765	0.00730	91 694	2 064 391	22.43
63	91 337	768	0.99159	0.00841	0.00805	90 959	1 972 697	21.60
64	90 569	835	0.99078	0.00922	0.00884	90 157	1 881 738	20.78
65	89 734	906	0.98990	0.01010	0.00968	89 288	1 791 581	19.97
66	88 829	991	0.98885	0.01115	0.01065	88 341	1 702 293	19.16
67	87 838	1 090	0.98759	0.01241	0.01182	87 302	1 613 952	18.37
68	86 748	1 195	0.98622	0.01378	0.01317	86 159	1 526 650	17.60
69	85 553	1 299	0.98482	0.01518	0.01457	84 912	1 440 491	16.84
70	84 254	1 414	0.98322	0.01678	0.01609	83 557	1 355 579	16.09
71	82 840	1 526	0.98157	0.01843	0.01775	82 086	1 272 023	15.36
72	81 314	1 636	0.97988	0.02012	0.01944	80 505	1 189 936	14.63
73	79 678	1 757	0.97795	0.02205	0.02126	78 810	1 109 431	13.92
74	77 921	1 888	0.97577	0.02423	0.02337	76 989	1 030 621	13.23
75	76 033	2 031	0.97328	0.02672	0.02576	75 030	953 632	12.54
76	74 002	2 180	0.97054	0.02946	0.02844	72 924	878 603	11.87
77	71 822	2 335	0.96749	0.03251	0.03143	70 667	805 678	11.22
78	69 487	2 482	0.96428	0.03572	0.03466	68 258	735 011	10.58
79	67 005	2 639	0.96061	0.03939	0.03818	65 699	666 753	9.95
80	64 365	2 822	0.95616	0.04384	0.04237	62 970	601 054	9.34
81	61 544	3 021	0.95092	0.04908	0.04743	60 050	538 084	8.74
82	58 523	3 230	0.94480	0.05520	0.05339	56 925	478 033	8.17
83	55 293	3 442	0.93774	0.06226	0.06035	53 589	421 108	7.62
84	51 850	3 646	0.92968	0.07032	0.06841	50 043	367 519	7.09
85	48 204	3 826	0.92063	0.07937	0.07760	46 305	317 476	6.59
86	44 378	3 979	0.91035	0.08965	0.08807	42 400	271 171	6.11
87	40 399	4 087	0.89882	0.10118	0.10005	38 362	228 771	5.66
88	36 312	4 133	0.88619	0.11381	0.11352	34 246	190 409	5.24
89	32 179	4 098	0.87266	0.12734	0.12829	30 124	156 162	4.85
90	28 082	3 985	0.85808	0.14192	0.14434	26 077	126 038	4.49
91	24 096	3 807	0.84201	0.15799	0.16213	22 175	99 961	4.15
92	20 289	3 568	0.82414	0.17586	0.18223	18 483	77 786	3.83
93	16 721	3 272	0.80434	0.19566	0.20514	15 058	59 303	3.55
94	13 450	2 909	0.78374	0.21626	0.23049	11 963	44 245	3.29
95	10 541	2 494	0.76339	0.23661	0.25797	9 258	32 283	3.06
96	8 047	2 054	0.74472	0.25528	0.28219	6 983	23 025	2.86
97	5 993	1 644	0.72571	0.27429	0.30749	5 138	16 041	2.68
98	4 349	1 277	0.70637	0.29363	0.33391	3 682	10 903	2.51
99	3 072	962	0.68671	0.31329	0.36152	2 567	7 221	2.35
100	2 110	703	0.66676	0.33324	0.39037	1 739	4 654	2.21
101	1 407	497	0.64654	0.35346	0.42050	1 143	2 916	2.07
102	909	340	0.62606	0.37394	0.45198	728	1 773	1.95
103	569	225	0.60537	0.39463	0.48487	449	1 045	1.83
104	345	143	0.58448	0.41552	0.51922	267	596	1.73
105	201	88	0.56342	0.43658	0.55512	154	328	1.63
106	113	52	0.54223	0.45777	0.59261	85	175	1.54
107	62	29	0.52095	0.47905	0.63179	45	89	1.45
108	32	16	0.49961	0.50039	0.67271	23	44	1.37
109	16	8	0.47824	0.52176	0.71547	11	21	1.30
110	8	4	0.45690	0.54310	0.76013	5	9	1.23
111	4	2	0.43562	0.56438	0.80680	2	4	1.16
112	2	1	0.41444	0.58556	0.85554	1	2	1.10
113	1	0	0.39342	0.60658	0.90647	0	1	1.05

Female

age	number of survivors	number of deaths	probability of surviving	probability of dying	force of mortality	stationary population		life expectancy
						number of person-years	total person-years	
x	l_x	${}_nd_x$	${}_np_x$	${}_nq_x$	μ_x	${}_nL_x$	T_x	$\overset{\circ}{e}_x$
0(w)	100 000	64	0.99936	0.00064	0.06362	1 917	8 771 274	87.71
1	99 936	8	0.99992	0.00008	0.01225	1 916	8 769 357	87.75
2	99 927	5	0.99995	0.00005	0.00096	1 916	8 767 441	87.74
3	99 923	6	0.99994	0.00006	0.00247	1 916	8 765 524	87.72
4	99 917	16	0.99984	0.00016	0.00293	8 987	8 763 608	87.71
2(m)	99 901	12	0.99988	0.00012	0.00138	8 325	8 754 621	87.63
3	99 889	28	0.99972	0.00028	0.00125	24 969	8 746 297	87.56
6	99 861	33	0.99967	0.00033	0.00093	49 921	8 721 328	87.33
0(y)	100 000	172	0.99828	0.00172	0.06362	99 868	8 771 274	87.71
1	99 828	17	0.99983	0.00017	0.00042	99 817	8 671 407	86.86
2	99 811	12	0.99988	0.00012	0.00007	99 806	8 571 590	85.88
3	99 800	9	0.99991	0.00009	0.00010	99 795	8 471 784	84.89
4	99 791	7	0.99993	0.00007	0.00008	99 787	8 371 988	83.90
5	99 784	7	0.99993	0.00007	0.00007	99 781	8 272 201	82.90
6	99 777	7	0.99993	0.00007	0.00007	99 774	8 172 420	81.91
7	99 771	6	0.99994	0.00006	0.00006	99 768	8 072 646	80.91
8	99 765	6	0.99994	0.00006	0.00006	99 762	7 972 878	79.92
9	99 759	5	0.99995	0.00005	0.00006	99 756	7 873 117	78.92
10	99 753	5	0.99995	0.00005	0.00005	99 751	7 773 361	77.93
11	99 748	6	0.99994	0.00006	0.00005	99 745	7 673 610	76.93
12	99 742	7	0.99993	0.00007	0.00006	99 739	7 573 865	75.93
13	99 735	8	0.99992	0.00008	0.00007	99 731	7 474 127	74.94
14	99 727	9	0.99991	0.00009	0.00008	99 723	7 374 395	73.95
15	99 719	11	0.99989	0.00011	0.00010	99 713	7 274 672	72.95
16	99 707	14	0.99986	0.00014	0.00013	99 700	7 174 959	71.96
17	99 693	17	0.99983	0.00017	0.00016	99 685	7 075 258	70.97
18	99 676	19	0.99981	0.00019	0.00018	99 667	6 975 574	69.98
19	99 657	20	0.99980	0.00020	0.00020	99 647	6 875 907	69.00
20	99 637	22	0.99978	0.00022	0.00021	99 626	6 776 260	68.01
21	99 615	23	0.99977	0.00023	0.00022	99 604	6 676 633	67.02
22	99 593	24	0.99976	0.00024	0.00024	99 581	6 577 029	66.04
23	99 569	25	0.99975	0.00025	0.00025	99 556	6 477 449	65.06
24	99 544	25	0.99975	0.00025	0.00025	99 531	6 377 893	64.07
25	99 519	25	0.99975	0.00025	0.00025	99 507	6 278 361	63.09
26	99 494	25	0.99975	0.00025	0.00025	99 481	6 178 855	62.10
27	99 469	26	0.99974	0.00026	0.00026	99 456	6 079 373	61.12
28	99 443	26	0.99974	0.00026	0.00026	99 430	5 979 917	60.13
29	99 417	27	0.99973	0.00027	0.00027	99 403	5 880 487	59.15
30	99 390	27	0.99973	0.00027	0.00027	99 376	5 781 084	58.17
31	99 363	27	0.99973	0.00027	0.00027	99 349	5 681 707	57.18
32	99 336	28	0.99972	0.00028	0.00028	99 322	5 582 358	56.20
33	99 307	31	0.99969	0.00031	0.00030	99 292	5 483 036	55.21
34	99 277	34	0.99965	0.00035	0.00033	99 260	5 383 744	54.23
35	99 242	39	0.99961	0.00039	0.00037	99 223	5 284 484	53.25
36	99 204	43	0.99957	0.00043	0.00041	99 183	5 185 260	52.27
37	99 161	46	0.99954	0.00046	0.00045	99 138	5 086 078	51.29
38	99 115	50	0.99950	0.00050	0.00048	99 091	4 986 939	50.31
39	99 066	54	0.99946	0.00054	0.00052	99 039	4 887 849	49.34
40	99 012	58	0.99942	0.00058	0.00056	98 984	4 788 810	48.37
41	98 954	62	0.99937	0.00063	0.00060	98 924	4 689 826	47.39
42	98 892	67	0.99932	0.00068	0.00065	98 859	4 590 902	46.42
43	98 826	73	0.99926	0.00074	0.00071	98 790	4 492 043	45.45
44	98 752	81	0.99918	0.00082	0.00078	98 713	4 393 253	44.49
45	98 672	89	0.99909	0.00091	0.00086	98 628	4 294 540	43.52
46	98 582	98	0.99901	0.00099	0.00095	98 534	4 195 913	42.56
47	98 484	107	0.99892	0.00108	0.00104	98 432	4 097 379	41.60
48	98 378	117	0.99881	0.00119	0.00113	98 320	3 998 947	40.65
49	98 261	129	0.99869	0.00131	0.00125	98 198	3 900 626	39.70

age	number of survivors	number of deaths	probability of surviving	probability of dying	force of mortality	stationary population		life expectancy
						number of person-years	total person-years	
x	l_x	${}_nd_x$	${}_np_x$	${}_nq_x$	μ_x	${}_nL_x$	T_x	$\mathring{e}_x$
50	98 132	142	0.99855	0.00145	0.00138	98 063	3 802 429	38.75
51	97 990	155	0.99842	0.00158	0.00152	97 914	3 704 366	37.80
52	97 835	167	0.99829	0.00171	0.00165	97 753	3 606 452	36.86
53	97 668	177	0.99819	0.00181	0.00176	97 581	3 508 699	35.92
54	97 492	187	0.99808	0.00192	0.00187	97 399	3 411 119	34.99
55	97 304	199	0.99796	0.00204	0.00198	97 206	3 313 720	34.06
56	97 106	211	0.99782	0.00218	0.00211	97 001	3 216 514	33.12
57	96 894	225	0.99767	0.00233	0.00225	96 783	3 119 513	32.19
58	96 669	239	0.99753	0.00247	0.00240	96 551	3 022 730	31.27
59	96 430	253	0.99737	0.00263	0.00255	96 305	2 926 179	30.35
60	96 177	271	0.99719	0.00281	0.00272	96 043	2 829 875	29.42
61	95 906	293	0.99695	0.00305	0.00293	95 762	2 733 832	28.51
62	95 613	319	0.99667	0.00333	0.00319	95 456	2 638 070	27.59
63	95 295	344	0.99639	0.00361	0.00348	95 125	2 542 614	26.68
64	94 951	371	0.99610	0.00390	0.00376	94 768	2 447 489	25.78
65	94 580	399	0.99578	0.00422	0.00406	94 383	2 352 721	24.88
66	94 181	434	0.99539	0.00461	0.00441	93 967	2 258 338	23.98
67	93 747	475	0.99493	0.00507	0.00484	93 513	2 164 371	23.09
68	93 272	521	0.99442	0.00558	0.00533	93 016	2 070 858	22.20
69	92 751	569	0.99387	0.00613	0.00586	92 471	1 977 843	21.32
70	92 183	627	0.99319	0.00681	0.00648	91 874	1 885 371	20.45
71	91 555	690	0.99246	0.00754	0.00719	91 215	1 793 497	19.59
72	90 865	754	0.99170	0.00830	0.00794	90 494	1 702 282	18.73
73	90 111	826	0.99083	0.00917	0.00876	89 704	1 611 788	17.89
74	89 285	905	0.98986	0.01014	0.00968	88 839	1 522 084	17.05
75	88 380	996	0.98873	0.01127	0.01073	87 890	1 433 245	16.22
76	87 383	1 105	0.98736	0.01264	0.01198	86 841	1 345 356	15.40
77	86 278	1 237	0.98567	0.01433	0.01353	85 672	1 258 515	14.59
78	85 042	1 383	0.98374	0.01626	0.01537	84 363	1 172 843	13.79
79	83 659	1 550	0.98147	0.01853	0.01749	82 898	1 088 480	13.01
80	82 108	1 738	0.97883	0.02117	0.01998	81 256	1 005 581	12.25
81	80 370	1 947	0.97577	0.02423	0.02288	79 415	924 326	11.50
82	78 423	2 182	0.97217	0.02783	0.02627	77 352	844 911	10.77
83	76 240	2 448	0.96789	0.03211	0.03031	75 040	767 558	10.07
84	73 792	2 740	0.96287	0.03713	0.03511	72 447	692 519	9.38
85	71 052	3 047	0.95711	0.04289	0.04069	69 555	620 072	8.73
86	68 005	3 369	0.95046	0.04954	0.04714	66 348	550 517	8.10
87	64 636	3 701	0.94274	0.05726	0.05467	62 814	484 169	7.49
88	60 935	4 037	0.93375	0.06625	0.06353	58 944	421 355	6.91
89	56 898	4 345	0.92364	0.07636	0.07376	54 749	362 412	6.37
90	52 553	4 609	0.91230	0.08770	0.08530	50 269	307 662	5.85
91	47 944	4 844	0.89896	0.10104	0.09872	45 540	257 393	5.37
92	43 100	5 034	0.88321	0.11679	0.11487	40 595	211 853	4.92
93	38 066	5 130	0.86523	0.13477	0.13403	35 504	171 258	4.50
94	32 936	5 080	0.84576	0.15424	0.15574	30 386	135 754	4.12
95	27 856	4 884	0.82465	0.17535	0.18088	25 390	105 368	3.78
96	22 971	4 493	0.80442	0.19558	0.20496	20 687	79 978	3.48
97	18 479	4 002	0.78345	0.21655	0.23057	16 434	59 292	3.21
98	14 477	3 449	0.76173	0.23827	0.25782	12 705	42 858	2.96
99	11 028	2 875	0.73930	0.26070	0.28680	9 542	30 153	2.73
100	8 153	2 314	0.71615	0.28385	0.31763	6 950	20 611	2.53
101	5 839	1 796	0.69233	0.30767	0.35043	4 900	13 660	2.34
102	4 042	1 343	0.66786	0.33214	0.38531	3 336	8 761	2.17
103	2 700	964	0.64278	0.35722	0.42242	2 189	5 425	2.01
104	1 735	664	0.61713	0.38287	0.46189	1 381	3 235	1.86
105	1 071	438	0.59097	0.40903	0.50388	836	1 854	1.73
106	633	276	0.56436	0.43564	0.54855	484	1 018	1.61
107	357	165	0.53737	0.46263	0.59606	267	534	1.50
108	192	94	0.51007	0.48993	0.64660	140	267	1.39
109	98	51	0.48255	0.51745	0.70036	70	127	1.30
110	47	26	0.45491	0.54509	0.75755	33	57	1.21
111	21	12	0.42724	0.57276	0.81838	15	24	1.13
112	9	6	0.39965	0.60035	0.88310	6	10	1.05
113	4	2	0.37226	0.62774	0.95193	2	4	0.98
114	1	1	0.34518	0.65482	1.02515	1	1	0.92