

Table 3.1 Vital Rates: 1873–2006

Year	Number (thousands)			Crude rates (‰)			Standardized vital rates (‰)		
	Birth	Death	Natural increase	Birth	Death	Natural increase	Birth	Death	Natural increase
1873	809	661	149	23.1	18.9	4.3	...	...	...
1880	884	603	281	24.1	16.5	7.7	...	...	...
1890	1,145	824	322	28.7	20.6	8.1	...	...	...
1900	1,421	911	510	32.4	20.8	11.6	...	...	...
1910	1,713	1,064	649	34.8	21.6	13.2	...	...	...
1920	2,026	1,422	603	36.2	25.4	10.8	...	...	...
1930	2,085	1,171	914	32.4	18.2	14.2	32.4	18.2	14.2
1940	2,116	1,187	929	29.4	16.5	12.9	27.7	17.0	10.8
1947	2,679	1,138	1,541	34.5	14.7	19.8	30.9	15.4	15.5
1950	2,338	905	1,433	28.3	10.9	17.3	25.5	11.0	14.4
1955	1,731	694	1,037	19.5	7.8	11.7	16.9	7.7	9.2
1960	1,606	707	899	17.3	7.6	9.7	14.7	7.0	7.7
1965	1,824	700	1,123	18.7	7.2	11.5	15.7	6.0	9.8
1966	1,361	670	691	13.8	6.8	7.0	11.8	5.5	6.3
1967	1,936	675	1,261	19.4	6.8	12.7	16.3	5.4	10.9
1968	1,872	687	1,185	18.6	6.8	11.8	15.4	5.3	10.0
1969	1,890	694	1,196	18.5	6.8	11.7	15.0	5.2	9.8
1970	1,934	713	1,221	18.8	6.9	11.8	15.3	5.2	10.1
1971	2,001	685	1,316	19.1	6.5	12.6	15.9	4.8	11.0
1972	2,039	684	1,355	19.2	6.5	12.8	16.0	4.7	11.3
1973	2,092	709	1,383	19.3	6.5	12.7	16.1	4.6	11.5
1974	2,030	711	1,319	18.5	6.5	12.0	15.5	4.4	11.0
1975	1,901	702	1,199	17.1	6.3	10.8	14.3	4.2	10.1
1976	1,833	703	1,129	16.3	6.3	10.0	13.6	4.1	9.6
1977	1,755	690	1,065	15.5	6.1	9.4	13.3	3.8	9.5
1978	1,709	696	1,013	14.9	6.1	8.8	13.2	3.7	9.5
1979	1,643	690	953	14.2	6.0	8.3	13.1	3.6	9.5
1980	1,577	723	854	13.5	6.2	7.3	12.8	3.6	9.2
1981	1,529	720	809	13.0	6.1	6.9	12.6	3.4	9.1
1982	1,515	712	804	12.8	6.0	6.8	12.7	3.3	9.5
1983	1,509	740	769	12.7	6.2	6.5	12.9	3.3	9.7
1984	1,490	740	750	12.5	6.2	6.3	13.0	3.2	9.8
1985	1,432	752	679	11.9	6.3	5.6	12.5	3.1	9.5
1986	1,383	751	632	11.4	6.2	5.2	12.3	2.9	9.3
1987	1,347	751	595	11.1	6.2	4.9	12.0	2.8	9.1
1988	1,314	793	521	10.8	6.5	4.3	11.7	2.8	8.8
1989	1,247	789	458	10.2	6.4	3.7	11.0	2.7	8.3
1990	1,222	820	401	10.0	6.7	3.3	10.7	2.7	8.0
1991	1,223	830	393	9.9	6.7	3.2	10.8	2.7	8.1
1992	1,209	857	352	9.8	6.9	2.9	10.5	2.7	7.8
1993	1,188	879	310	9.6	7.1	2.5	10.1	2.6	7.5
1994	1,238	876	362	10.0	7.1	2.9	10.4	2.5	7.9
1995	1,187	922	265	9.5	7.4	2.1	9.9	2.6	7.3
1996	1,207	896	310	9.7	7.2	2.5	9.9	2.4	7.5
1997	1,192	913	278	9.5	7.3	2.2	9.7	2.4	7.3
1998	1,203	936	267	9.6	7.5	2.1	9.6	2.4	7.3
1999	1,178	982	196	9.4	7.8	1.6	9.4	2.4	7.0
2000	1,191	962	229	9.5	7.7	1.8	9.5	2.3	7.2
2001	1,171	970	200	9.3	7.7	1.6	9.3	2.2	7.1
2002	1,154	982	171	9.2	7.8	1.4	9.2	2.1	7.1
2003	1,124	1,015	109	8.9	8.0	0.9	9.0	2.1	6.9
2004	1,111	1,029	82	8.8	8.1	0.7	8.9	2.0	6.9
2005	1,063	1,084	-21	8.4	8.6	-0.2	8.7	2.0	6.7
2006	1,093	1,084	8	8.7	8.6	0.1	9.1	2.0	7.1

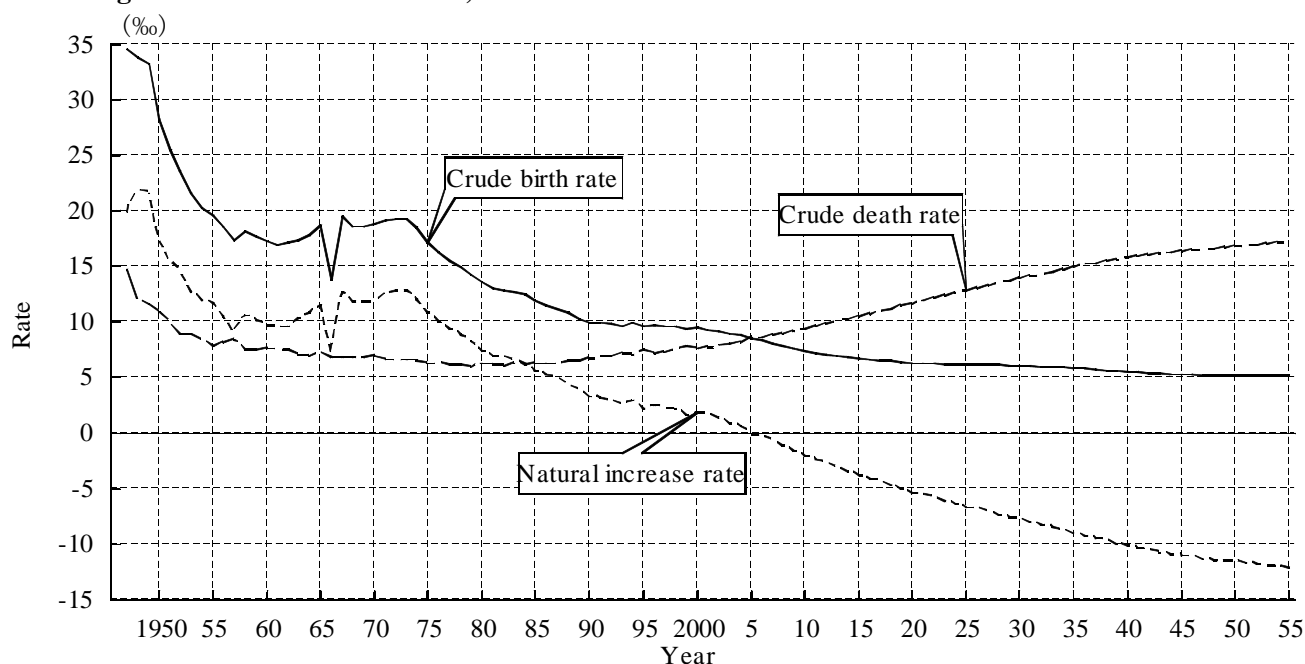
The number of births and the number of deaths for the years 1873–90 are based on the Cabinet Statistics Bureau, *Nihon Teikoku Toukei Nenkan*. The data from 1900 onwards are based on the Statistics and Information Department, Ministry of Health, Labour and Welfare, *Vital Statistics of Japan*. The data for 1947–72 do not include Okinawa Prefecture. These statistics are for Japanese and events occurring in Japan. Standardized rates were computed based on age-specific fertility rates and mortality rates of each year in reference to the age-sex structure of the total population in 1930 as the standard population. However, the fertility rates are applied to the female population only. The populations used for the computation are, prior to 1940, the total population and, from 1947 onwards, the Japanese population.

Table 3.2 Projected Births, Deaths and Natural Increases: 2006–55

Year	Number (thousands)			Crude rates (‰)		
	Birth	Death	Natural increase	Birth	Death	Natural increase
2006	1,090	1,103	-13	8.5	8.6	-0.1
2007	1,022	1,122	-100	8.0	8.8	-0.8
2008	987	1,146	-159	7.7	9.0	-1.2
2009	960	1,169	-209	7.5	9.2	-1.6
2010	935	1,192	-257	7.3	9.4	-2.0
2011	911	1,216	-305	7.2	9.6	-2.4
2012	890	1,240	-351	7.0	9.8	-2.8
2013	870	1,265	-395	6.9	10.0	-3.1
2014	852	1,290	-438	6.8	10.2	-3.5
2015	836	1,314	-478	6.7	10.5	-3.8
2016	821	1,338	-516	6.6	10.7	-4.1
2017	808	1,361	-553	6.5	10.9	-4.4
2018	795	1,384	-588	6.4	11.2	-4.7
2019	784	1,406	-623	6.4	11.4	-5.0
2020	773	1,429	-656	6.3	11.6	-5.3
2021	763	1,450	-687	6.3	11.9	-5.6
2022	754	1,471	-717	6.2	12.1	-5.9
2023	746	1,491	-745	6.2	12.3	-6.2
2024	739	1,509	-771	6.2	12.6	-6.4
2025	731	1,526	-795	6.1	12.8	-6.7
2026	725	1,542	-818	6.1	13.0	-6.9
2027	718	1,557	-839	6.1	13.2	-7.1
2028	711	1,571	-860	6.1	13.4	-7.4
2029	703	1,585	-881	6.1	13.7	-7.6
2030	695	1,597	-902	6.0	13.9	-7.8
2031	687	1,609	-922	6.0	14.1	-8.1
2032	677	1,620	-942	6.0	14.3	-8.3
2033	667	1,630	-963	5.9	14.5	-8.6
2034	656	1,639	-982	5.9	14.7	-8.8
2035	645	1,646	-1,001	5.8	14.9	-9.0
2040	582	1,663	-1,081	5.5	15.7	-10.2
2045	526	1,641	-1,115	5.2	16.3	-11.1
2050	485	1,593	-1,108	5.1	16.7	-11.6
2055	457	1,556	-1,100	5.1	17.3	-12.2

Source: National Institute of Population and Social Security Research, *Population Projections for Japan: 2006–2055* (December 2006: medium variant). The total population includes foreign nationals.

Figure 3.1 Crude Birth Rates, Crude Death Rates and Natural Increase Rates: 1947–2055



The data for after 2006 are based on projection. See the notes for Table 3.1, 3.2.

Table 3.3 Stable Population for Female: 1925–2006

Year	Intrinsic vital rates (%)			Mean length of generation (year)	Age composition of stable population (%)		
	Growth rate	Birth rate	Death rate		0–14 years old	15–64 years old	65 and over
1925	17.11	35.90	18.80	29.18	38.10	57.37	4.53
1930	14.23	32.76	18.54	29.52	35.76	58.75	5.49
1940	11.93	28.59	16.67	30.21	33.58	60.36	6.06
1947	17.34	31.46	14.12	29.91	36.05	58.60	5.34
1950	13.88	25.85	11.97	29.23	32.03	60.80	7.17
1955	1.90	15.84	13.94	28.77	22.20	64.07	13.73
1960	-3.01	12.68	15.69	27.86	18.74	64.45	16.81
1965	0.25	13.84	13.60	27.68	20.28	63.89	15.82
1966	-11.12	8.54	19.66	27.73	13.65	62.65	23.69
1967	1.83	14.49	12.66	27.72	21.05	63.33	15.62
1968	0.02	13.48	13.46	27.75	19.87	63.37	16.76
1969	0.01	13.42	13.41	27.76	19.79	63.20	17.00
1970	0.14	13.47	13.33	27.73	19.87	63.25	16.88
1971	0.65	13.59	12.94	27.72	19.98	62.76	17.26
1972	0.47	13.43	12.96	27.65	19.79	62.60	17.61
1973	0.52	13.41	12.90	27.62	19.77	62.52	17.71
1974	-1.06	12.54	13.60	27.54	18.72	62.38	18.90
1975	-3.54	11.25	14.79	27.47	17.13	61.95	20.93
1976	-4.58	10.70	15.28	27.50	16.43	61.62	21.95
1977	-5.53	10.19	15.72	27.60	15.77	61.14	23.09
1978	-5.66	10.08	15.74	27.67	15.62	60.90	23.48
1979	-6.09	9.82	15.91	27.73	15.27	60.48	24.25
1980	-6.50	9.62	16.12	27.79	15.02	60.35	24.62
1981	-6.54	9.55	16.09	27.88	14.92	60.08	25.00
1982	-5.83	9.78	15.61	27.98	15.20	59.83	24.96
1983	-5.22	10.03	15.25	28.06	15.53	59.91	24.56
1984	-4.94	10.09	15.04	28.17	15.60	59.67	24.72
1985	-5.86	9.64	15.50	28.32	15.02	59.25	25.73
1986	-6.69	9.22	15.91	28.45	14.46	58.69	26.85
1987	-7.28	8.91	16.19	28.60	14.03	58.17	27.80
1988	-7.92	8.66	16.58	28.76	13.71	58.08	28.21
1989	-9.68	7.90	17.59	28.92	12.68	57.06	30.25
1990	-10.26	7.67	17.93	29.03	12.36	56.76	30.88
1991	-10.44	7.57	18.01	29.10	12.23	56.52	31.26
1992	-11.19	7.28	18.48	29.20	11.83	56.11	32.06
1993	-12.07	6.93	19.00	29.32	11.34	55.44	33.22
1994	-11.07	7.22	18.30	29.41	11.73	55.45	32.83
1995	-12.80	6.63	19.44	29.51	10.91	54.72	34.36
1996	-12.69	6.58	19.27	29.63	10.82	54.13	35.05
1997	-13.49	6.28	19.77	29.70	10.40	53.50	36.10
1998	-13.62	6.22	19.83	29.75	10.30	53.19	36.50
1999	-14.62	5.90	20.52	29.80	9.86	52.76	37.38
2000	-14.23	5.95	20.18	29.81	9.91	52.36	37.72
2001	-14.78	5.74	20.52	29.82	9.61	51.77	38.62
2002	-15.17	5.59	20.76	29.87	9.38	51.25	39.37
2003	-15.80	5.39	21.19	29.99	9.09	50.79	40.11
2004	-15.74	5.37	21.12	30.08	9.07	50.58	40.35
2005	-16.47	5.19	21.66	30.17	8.81	50.39	40.80
2006	-14.95	5.59	20.54	30.27	9.37	50.84	39.79

Source: National Institute of Population and Social Security Research. Computed with the population based on *Population Census*, or *estimated population* based on it, the number of births based on *Vital Statistics*, and the number of survivors based on *Life Tables*. The populations used for the computation are, prior to 1940, the total population, and, from 1947 onwards, the Japanese population. The data for 1947–1972 do not include Okinawa Prefecture.

Table 3.4 Demographic Indicators based on the Assumption of both Fertility and Mortality Constant at the Level in 2006

Year	Population (thousands)	Vital rates (%)			Proportion (%)				Sex ratio ¹⁾
		Growth rate	Birth rate	Death rate	0-14 years old	15-64 years old	65 and over	75 and over	
2006	127,770	-0.09	8.69	8.79	13.65	65.53	20.82	9.52	95.25
2010	127,334	-2.14	7.97	10.10	13.27	63.72	23.01	11.09	94.94
2020	121,995	-6.64	6.72	13.36	11.87	59.75	28.38	14.45	93.98
2030	112,569	-9.50	6.54	16.04	10.67	59.38	29.95	17.72	93.02
2040	101,398	-11.45	6.34	17.79	10.52	55.87	33.61	17.87	92.51
2050	89,877	-12.85	5.93	18.78	10.23	53.94	35.83	20.96	92.20
2060	78,331	-14.85	5.98	20.83	9.89	54.11	36.00	22.32	91.43
2070	67,286	-15.20	6.07	21.27	10.07	54.06	35.87	21.35	91.57
2080	57,953	-14.73	5.93	20.66	10.11	53.57	36.32	21.45	91.87
2090	49,969	-14.99	5.97	20.96	9.95	53.98	36.07	22.07	91.69
2100	42,979	-15.06	6.04	21.10	10.04	53.98	35.98	21.54	91.68
2110	37,012	-14.84	5.96	20.80	10.08	53.70	36.22	21.55	91.82
2120	31,899	-14.96	5.97	20.93	9.99	53.90	36.11	21.91	91.73
2130	27,451	-15.03	6.02	21.05	10.03	53.95	36.02	21.64	91.70
2140	23,637	-14.89	5.98	20.87	10.07	53.77	36.16	21.59	91.79
2150	20,365	-14.94	5.98	20.92	10.01	53.87	36.12	21.82	91.74
2160	17,531	-15.00	6.01	21.01	10.03	53.92	36.05	21.68	91.72
2170	15,095	-14.92	5.98	20.90	10.05	53.81	36.13	21.62	91.77
2180	13,003	-14.94	5.98	20.92	10.02	53.86	36.12	21.76	91.75
2190	11,195	-14.98	6.00	20.98	10.03	53.90	36.07	21.70	91.73
2200	9,639	-14.94	5.99	20.92	10.05	53.84	36.12	21.65	91.76
2210	8,302	-14.94	5.98	20.92	10.03	53.85	36.12	21.73	91.75
2220	7,149	-14.97	6.00	20.96	10.03	53.89	36.08	21.71	91.73
2230	6,156	-14.94	5.99	20.93	10.04	53.85	36.11	21.66	91.75
2240	5,301	-14.94	5.99	20.93	10.03	53.85	36.11	21.71	91.75
2250	4,565	-14.96	5.99	20.95	10.03	53.88	36.09	21.71	91.74
2260	3,931	-14.95	5.99	20.94	10.04	53.86	36.11	21.68	91.75
2270	3,385	-14.94	5.99	20.93	10.03	53.86	36.11	21.70	91.75
2280	2,915	-14.96	5.99	20.95	10.03	53.87	36.10	21.70	91.74
2290	2,510	-14.95	5.99	20.94	10.04	53.86	36.10	21.68	91.75
2300	2,162	-14.95	5.99	20.93	10.03	53.86	36.11	21.70	91.75
2310	1,861	-14.95	5.99	20.94	10.03	53.87	36.10	21.70	91.74
2320	1,603	-14.95	5.99	20.94	10.03	53.86	36.10	21.69	91.75
2330	1,380	-14.95	5.99	20.94	10.03	53.86	36.11	21.70	91.75
2340	1,189	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.74
2350	1,024	-14.95	5.99	20.94	10.03	53.86	36.10	21.69	91.75
2360	881	-14.95	5.99	20.94	10.03	53.86	36.11	21.70	91.75
2370	759	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.74
2380	654	-14.95	5.99	20.94	10.03	53.86	36.10	21.69	91.75
2390	563	-14.95	5.99	20.94	10.03	53.86	36.11	21.70	91.75
2400	485	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2410	417	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2420	359	-14.95	5.99	20.94	10.03	53.86	36.11	21.70	91.75
2430	310	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2440	267	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2450	230	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2460	198	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2470	170	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2480	147	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2490	126	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2500	109	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2600	24	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2700	5	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2800	1	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
2900	0	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75
3000	0	-14.95	5.99	20.94	10.03	53.86	36.10	21.70	91.75

Source: National Institute of Population and Social Security Research. The population index for the future under the condition that the total population by sex and age in 2006 is used as the base population and that age-specific fertility rates for females in 2006 (corresponding to 1.32 for the total fertility rate), sex ratio at birth (105.2) and mortality rates based on *Abridged Life Table* (corresponding to males: 79.00 years, females: 85.81 years for life expectancy at birth) are stable from the present onwards. The indexes show the process towards stable population and the situation thereof. Vital rates are the rates from October through September of the following year with the population at the beginning of the period as the denominator. Not assuming international migration.

1) The ratio of the male population to the female population (100 persons).

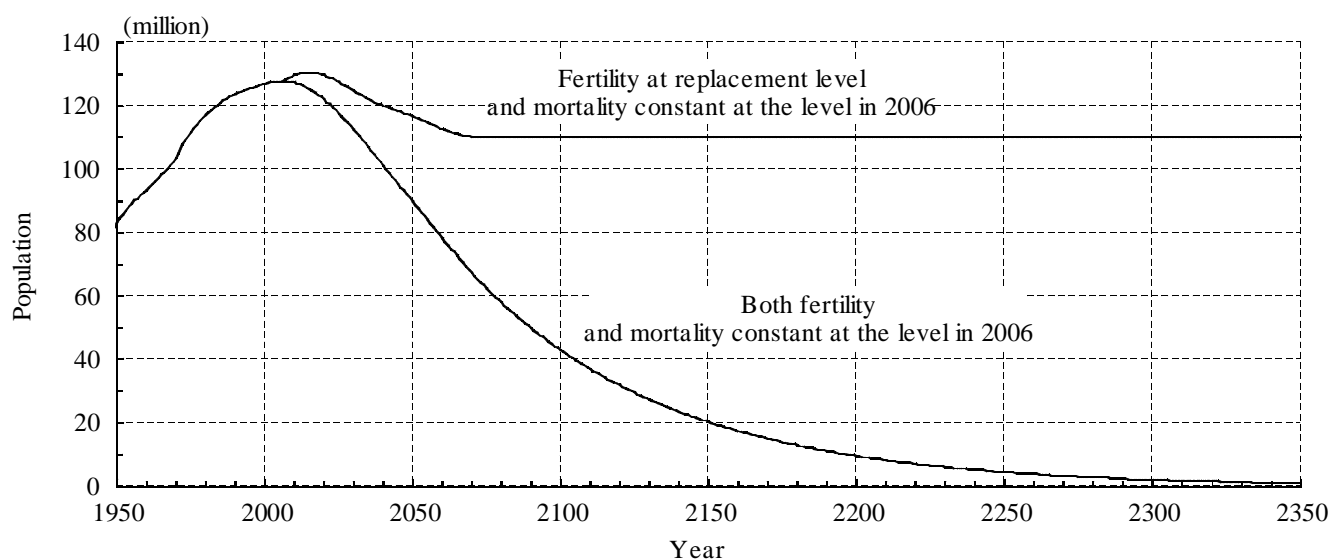
Table 3.5 Demographic Indicators based on the Assumption of Fertility at Replacement Level and Mortality Constant at the Level in 2006

Year	Population (thousands)	Vital rates (‰)			Proportion (%)				Sex ratio ¹⁾
		Growth rate	Birth rate	Death rate	0-14 years old	15-64 years old	65 and over	75 and over	
2006	127,770	4.86	13.64	8.78	13.65	65.53	20.82	9.52	95.25
2010	129,789	2.36	12.26	9.90	14.91	62.52	22.58	10.88	95.12
2020	129,662	-2.64	9.92	12.56	17.08	56.22	26.70	13.60	94.61
2030	124,805	-4.53	9.94	14.47	15.27	57.72	27.02	15.98	94.15
2040	120,047	-2.87	12.16	15.03	16.18	55.43	28.39	15.10	94.37
2050	116,698	-3.21	11.30	14.51	18.08	54.32	27.60	16.14	95.01
2060	112,727	-3.30	11.34	14.64	17.35	57.63	25.02	15.51	95.32
2070	110,254	-0.71	12.71	13.42	17.77	60.34	21.89	13.03	96.34
2080	110,189	0.20	12.11	11.91	18.73	58.14	23.13	11.28	97.15
2090	110,230	-0.10	11.78	11.88	17.96	58.87	23.16	13.18	97.06
2100	110,136	-0.02	12.46	12.48	17.90	59.70	22.40	12.82	96.79
2110	110,185	0.09	12.16	12.07	18.48	58.58	22.94	11.96	97.08
2120	110,222	-0.05	11.92	11.97	18.07	58.87	23.06	12.86	97.05
2130	110,158	-0.02	12.32	12.34	17.99	59.42	22.60	12.76	96.88
2140	110,184	0.05	12.18	12.13	18.34	58.79	22.86	12.22	97.03
2150	110,208	-0.03	12.01	12.03	18.12	58.89	22.98	12.70	97.03
2160	110,171	-0.02	12.24	12.26	18.05	59.25	22.70	12.71	96.92
2170	110,183	0.03	12.18	12.15	18.26	58.90	22.84	12.37	97.01
2180	110,200	-0.01	12.06	12.07	18.15	58.92	22.93	12.63	97.02
2190	110,178	-0.01	12.20	12.21	18.09	59.15	22.76	12.66	96.95
2200	110,184	0.02	12.17	12.15	18.21	58.96	22.83	12.45	97.00
2210	110,194	-0.01	12.10	12.10	18.16	58.95	22.89	12.59	97.01
2220	110,182	-0.01	12.17	12.18	18.11	59.09	22.80	12.63	96.97
2230	110,184	0.01	12.17	12.16	18.19	58.99	22.83	12.50	96.99
2240	110,191	-0.00	12.12	12.12	18.16	58.97	22.87	12.57	97.00
2250	110,184	-0.01	12.16	12.17	18.13	59.06	22.82	12.61	96.98
2260	110,185	0.01	12.16	12.16	18.17	59.00	22.83	12.53	96.99
2270	110,189	-0.00	12.13	12.13	18.16	58.98	22.86	12.57	97.00
2280	110,185	-0.00	12.15	12.16	18.14	59.04	22.83	12.59	96.98
2290	110,185	0.00	12.16	12.15	18.16	59.01	22.83	12.55	96.99
2300	110,188	-0.00	12.14	12.14	18.16	58.99	22.85	12.57	96.99

Source: National Institute of Population and Social Security Research. The population index for the future under the condition that the total population by sex and age in 2006 is used as the base population and that age-specific fertility rates for females in 2006 (a replacement level, that is, corresponding to 2.07 for the total fertility rate), sex ratio at birth (105.3) and mortality rates based on *Abridged Life Table* (corresponding to males: 79.00 years, females: 85.81 years for life expectancy at birth) are stable from the present onwards. The index shows the process towards stationary population and the situation thereof. Vital rates were the rates from October through September of the following year with the population at the beginning of the period as the denominator. Not assuming international migration.

1) The ratio of the male population to the female population (100 persons).

Figure 3.2 Population based on the Assumption that Fertility Rates and Mortality Rates remain Stable after 2006



See the notes for Tables 3.4 and 3.5.