

TABLE A.7. JAPAN, 1998 REVISION

JAPAN

Indicator	A. ESTIMATES									
	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995
Population (thousands)										
Total	83 625	89 815	94 096	98 881	104 331	111 524	116 807	120 837	123 537	125 472
Males	41 003	44 111	46 176	48 531	51 205	54 880	57 468	59 393	60 658	61 526
Females	42 622	45 704	47 920	50 350	53 126	56 644	59 339	61 444	62 879	63 946
Sex ratio (per 100 females)	96.2	96.5	96.4	96.4	96.4	96.9	96.8	96.7	96.5	96.2
Age distribution:										
Percentage aged 0-4	13.4	10.6	8.5	8.3	8.5	8.9	7.4	6.2	5.3	4.8
Percentage aged 5-14	22.1	23.0	21.7	17.6	15.5	15.4	16.2	15.4	13.1	11.2
Percentage aged 15-24	19.6	19.1	18.9	20.2	19.0	15.4	13.8	14.2	15.2	14.7
Percentage aged 60 or over	7.7	8.1	8.9	9.6	10.7	11.7	12.9	14.8	17.4	20.5
Percentage aged 65 or over	4.9	5.3	5.7	6.2	7.1	7.9	9.0	10.3	12.0	14.6
Percentage of women aged 15-49	50.2	51.2	53.0	55.6	55.9	53.6	51.6	50.1	50.0	48.5
Median age (years)	22.3	23.6	25.5	27.3	29.0	30.4	32.6	35.2	37.4	39.7
Population density (per sq km)	221	238	249	262	276	295	309	320	327	332
	1950-1955	1955-1960	1960-1965	1965-1970	1970-1975	1975-1980	1980-1985	1985-1990	1990-1995	
Population change per year (thousands)	1 238	856	957	1 090	1 439	1 057	806	540	387	
Births per year (thousands)	2 052	1 664	1 662	1 805	2 073	1 733	1 509	1 321	1 213	
Deaths per year (thousands)	812	715	702	697	712	697	730	773	863	
Population growth rate (percentage)	1.43	0.93	0.99	1.07	1.33	0.93	0.68	0.44	0.31	
Crude birth rate (per 1,000 population)	23.7	18.1	17.2	17.8	19.2	15.2	12.7	10.8	9.7	
Crude death rate (per 1,000 population)	9.4	7.8	7.3	6.9	6.6	6.1	6.1	6.3	6.9	
Total fertility rate (per woman)	2.75	2.08	2.02	2.00	2.07	1.81	1.76	1.66	1.49	
Gross reproduction rate (per woman)	1.34	1.01	0.98	0.97	1.01	0.88	0.86	0.81	0.73	
Net reproduction rate (per woman)	1.19	0.95	0.94	0.97	0.98	0.87	0.85	0.80	0.72	
Infant mortality rate (per 1,000 births)	51	37	25	16	12	9	7	5	4	
Life expectancy at birth (years)										
Males	62.1	64.6	66.5	68.5	70.6	72.8	74.2	75.4	76.4	
Females	65.9	69.1	71.6	73.9	76.2	78.2	79.7	81.2	82.4	
Both sexes combined	63.9	66.8	69.0	71.1	73.3	75.5	76.9	78.3	79.5	
	B. MEDIUM-VARIANT PROJECTIONS									
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total	125 472	126 714	127 457	127 315	126 070	123 893	121 150	118 145	111 691	104 921
Males	61 526	62 093	62 423	62 303	61 619	60 471	59 058	57 541	54 395	51 162
Females	63 946	64 621	65 034	65 013	64 451	63 422	62 092	60 604	57 296	53 759
Sex ratio (per 100 females)	96.2	96.1	96.0	95.8	95.6	95.3	95.1	94.9	94.9	95.2
Age distribution:										
Percentage aged 0-4	4.8	4.9	5.0	4.9	4.6	4.3	4.3	4.5	4.6	4.4
Percentage aged 5-14	11.2	9.9	9.6	9.9	10.0	9.6	9.2	9.0	9.4	9.4
Percentage aged 15-24	14.7	12.6	11.0	9.8	9.7	10.2	10.4	10.1	9.5	10.0
Percentage aged 60 or over	20.5	23.1	25.8	29.3	31.2	32.1	32.9	34.2	37.4	37.6
Percentage aged 65 or over	14.6	17.1	19.2	21.5	24.6	26.2	27.3	27.3	30.3	31.8
Percentage in school ages 6-11	6.5	5.8	5.8	6.0	6.0	5.7	5.4	5.3	5.7	5.6
Percentage in school ages 12-14	3.7	3.2	2.8	2.9	3.0	3.0	2.9	2.7	2.8	2.9
Percentage in school ages 15-17	3.9	3.4	3.0	2.8	3.0	3.1	3.0	2.9	2.8	3.0
Percentage in school ages 18-23	9.2	7.7	6.7	5.9	5.7	6.1	6.3	6.1	5.7	6.0
Percentage of women aged 15-49	48.5	45.3	43.0	41.5	40.3	39.1	37.0	35.6	34.8	35.6
Median age (years)	39.7	41.2	42.5	43.8	45.2	46.9	48.4	49.3	49.5	49.0
Population density (per sq km)	332	335	337	337	334	328	321	313	296	278
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands)	248	149	-28	-249	-435	-549	-601	-645	-677	
Births per year (thousands)	1 254	1 288	1 246	1 154	1 080	1 054	1 061	1 041	946	
Deaths per year (thousands)	1 005	1 139	1 274	1 403	1 515	1 603	1 662	1 686	1 623	
Net migration per year (thousands)	0	0	0	0	0	0	0	0	0	
Population growth rate (percentage)	0.20	0.12	-0.02	-0.20	-0.35	-0.45	-0.50	-0.56	-0.63	
Crude birth rate (per 1,000 population)	9.9	10.1	9.8	9.1	8.6	8.6	8.9	9.1	8.7	
Crude death rate (per 1,000 population)	8.0	9.0	10.0	11.1	12.1	13.1	13.9	14.7	15.0	
Net migration rate (per 1,000 population)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total fertility rate (per woman)	1.43	1.47	1.54	1.61	1.68	1.73	1.75	1.75	1.75	
Gross reproduction rate (per woman)	0.70	0.71	0.75	0.78	0.82	0.84	0.85	0.85	0.85	
Net reproduction rate (per woman)	0.69	0.71	0.74	0.77	0.81	0.84	0.85	0.85	0.85	
Infant mortality rate (per 1,000 births)	4	4	4	4	4	4	4	4	4	
Mortality under age 5 (per 1,000 births)	6	6	5	5	5	5	5	5	5	
Life expectancy at birth (years)										
Males	76.8	77.2	77.6	78.0	78.4	78.8	79.2	79.8	80.6	
Females	82.9	83.3	83.7	84.1	84.5	84.9	85.3	85.9	86.7	
Both sexes combined	80.0	80.3	80.7	81.1	81.5	81.9	82.3	82.8	83.6	

Source: United Nations Population Division, *World Population Prospects: The 1998 Revision*.

TABLE A.7 (continued)

JAPAN

C. HIGH-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	125 472	126 954	128 243	128 727	128 143	126 675	124 832	123 157	120 207	117 119
Males.....	61 526	62 216	62 827	63 028	62 683	61 899	60 947	60 112	58 763	57 416
Females.....	63 946	64 738	65 417	65 700	65 460	64 777	63 885	63 045	61 444	59 703
Age distribution:										
Percentage aged 0-4.....	4.8	5.1	5.4	5.3	5.0	4.8	4.9	5.4	5.7	5.5
Percentage aged 5-14.....	11.2	9.9	9.7	10.4	10.7	10.4	10.0	9.9	11.3	11.5
Percentage aged 15-24.....	14.7	12.6	10.9	9.7	9.7	10.6	11.0	10.7	10.2	11.6
Percentage aged 60 or over.....	20.5	23.1	25.7	29.0	30.7	31.4	32.0	32.8	34.7	33.7
Percentage aged 65 or over.....	14.6	17.0	19.1	21.3	24.2	25.6	25.9	26.2	28.1	28.5
Percentage of women aged 15-49.....	48.5	45.3	42.8	41.1	39.9	38.8	37.0	35.8	35.4	37.3
Median age (years).....	39.7	41.1	42.2	43.4	44.6	46.2	47.3	47.6	45.9	44.8
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands).....	296	258	97	- 117	- 294	- 369	- 335	- 295	- 309	
Population growth rate (percentage).....	0.24	0.20	0.08	- 0.09	- 0.23	- 0.29	- 0.27	- 0.24	- 0.26	
Crude birth rate (per 1,000 population).....	10.3	11.0	10.7	10.0	9.6	9.8	10.7	11.5	11.1	
Crude death rate (per 1,000 population).....	8.0	8.9	9.9	10.9	11.9	12.8	13.4	13.9	13.7	
Net migration rate (per 1,000 population).....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total fertility rate (per woman).....	1.49	1.59	1.69	1.79	1.89	1.99	2.09	2.15	2.15	
Gross reproduction rate (per woman).....	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.05	1.05	
Net reproduction rate (per woman).....	0.72	0.77	0.81	0.86	0.91	0.96	1.01	1.04	1.04	
D. LOW-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	125 472	126 474	126 583	125 655	123 497	120 265	116 290	111 858	102 145	91 916
Males.....	61 526	61 970	61 974	61 451	60 298	58 609	56 564	54 315	49 499	44 495
Females.....	63 946	64 504	64 609	64 204	63 199	61 656	59 727	57 543	52 646	47 421
Age distribution:										
Percentage aged 0-4.....	4.8	4.7	4.6	4.3	3.9	3.6	3.5	3.4	3.3	3.1
Percentage aged 5-14.....	11.2	9.9	9.5	9.4	9.0	8.5	7.9	7.4	7.4	7.1
Percentage aged 15-24.....	14.7	12.7	11.1	9.9	9.7	9.8	9.6	9.1	8.1	8.2
Percentage aged 60 or over.....	20.5	23.2	26.0	29.7	31.9	33.0	34.3	36.1	40.9	42.9
Percentage aged 65 or over.....	14.6	17.1	19.3	21.8	25.1	27.0	27.8	28.8	33.1	36.3
Percentage of women aged 15-49.....	48.5	45.4	43.3	42.0	40.9	39.5	37.1	35.3	33.4	32.5
Median age (years).....	39.7	41.3	42.8	44.3	45.9	47.9	49.8	51.3	53.3	54.3
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands).....	200	22	-186	-432	-646	-795	-886	-971	-1 023	
Population growth rate (percentage).....	0.16	0.02	- 0.15	- 0.35	- 0.53	- 0.67	- 0.78	- 0.91	- 1.06	
Crude birth rate (per 1,000 population).....	9.6	9.2	8.6	7.8	7.1	6.8	6.8	6.6	6.1	
Crude death rate (per 1,000 population).....	8.0	9.0	10.1	11.3	12.4	13.5	14.5	15.7	16.7	
Net migration rate (per 1,000 population).....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total fertility rate (per woman).....	1.38	1.32	1.34	1.35	1.35	1.35	1.35	1.35	1.35	
Gross reproduction rate (per woman).....	0.67	0.64	0.65	0.66	0.66	0.66	0.66	0.66	0.66	
Net reproduction rate (per woman).....	0.66	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
E. CONSTANT-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	125 472	126 998	127 871	127 568	125 930	123 193	119 804	116 124	108 043	99 227
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population growth rate (percentage).....	0.24	0.14	- 0.05	- 0.26	- 0.44	- 0.56	- 0.62	- 0.72	- 0.85	
Crude birth rate (per 1,000 population).....	10.4	10.3	9.5	8.5	7.8	7.6	7.8	7.8	7.1	
Crude death rate (per 1,000 population).....	8.0	8.9	10.0	11.1	12.2	13.2	14.1	15.0	15.6	

Source: United Nations Population Division, *World Population Prospects: The 1998 Revision*.

TABLE A.8. JAPAN, REPLACEMENT MIGRATION SCENARIOS

JAPAN

Scenario	I	II	III	IV	V
Period	Medium variant	Medium variant with zero migration	Constant total population	Constant age group 15-64	Constant ratio 15-64/65 years or older
A. Average annual net migration (thousands)					
1995-2000	0	0	0	231	5 990
2000-2005	0	0	0	517	5 674
2005-2010	0	0	27	818	6 224
2010-2015	0	0	234	1 056	7 831
2015-2020	0	0	387	483	3 854
2020-2025	0	0	459	200	2 335
2025-2030	0	0	473	407	5 895
2030-2035	0	0	472	707	12 766
2035-2040	0	0	472	1 070	20 543
2040-2045	0	0	464	745	20 776
2045-2050	0	0	440	465	18 811
Grand total 1995-2050	0	0	17 141	33 487	553 495
B. Total population (thousands)					
1995	125 472	125 472	125 472	125 472	125 472
2000	126 714	126 714	126 714	127 923	158 061
2005	127 457	127 457	127 457	131 475	191 169
2010	127 315	127 315	127 457	135 956	228 535
2015	126 070	126 070	127 457	140 936	275 471
2020	123 893	123 893	127 457	142 402	303 440
2025	121 150	121 150	127 457	141 877	323 376
2030	118 145	118 145	127 457	142 094	361 530
2035	114 987	114 987	127 457	143 811	437 628
2040	111 691	111 691	127 457	147 553	559 848
2045	108 304	108 304	127 457	149 843	691 148
2050	104 921	104 921	127 457	150 697	817 965
C. Age group 15-64 (thousands)					
1995	87 188	87 188	87 188	87 188	87 188
2000	86 335	86 335	86 335	87 188	108 454
2005	84 355	84 355	84 355	87 188	129 299
2010	81 099	81 099	81 199	87 188	152 670
2015	76 708	76 708	77 681	87 188	182 833
2020	74 101	74 101	76 587	87 188	202 426
2025	72 418	72 418	76 803	87 188	217 547
2030	70 018	70 018	76 509	87 188	243 694
2035	66 671	66 671	75 432	87 188	292 648
2040	62 250	62 250	73 410	87 188	369 375
2045	59 159	59 159	72 729	87 188	452 377
2050	57 087	57 087	72 908	87 188	535 088
D. Potential support ratio 15-64/65 or older					
1995	4.77	4.77	4.77	4.77	4.77
2000	3.99	3.99	3.99	4.03	4.77
2005	3.45	3.45	3.45	3.54	4.77
2010	2.96	2.96	2.96	3.14	4.77
2015	2.47	2.47	2.50	2.75	4.77
2020	2.28	2.28	2.35	2.61	4.77
2025	2.24	2.24	2.35	2.59	4.77
2030	2.17	2.17	2.34	2.57	4.77
2035	2.05	2.05	2.27	2.49	4.77
2040	1.84	1.84	2.11	2.33	4.77
2045	1.74	1.74	2.06	2.23	4.77
2050	1.71	1.71	2.07	2.19	4.77

TABLE A.8 (continued)

JAPAN

Scenario	I	II	III	IV	V
Period	Medium variant	Medium variant with zero migration	Constant total population	Constant age group 15-64	Constant ratio 15-64/65 years or older
E. Age group 65 or older (thousands)					
1995	18 264	18 264	18 264	18 264	18 264
2000	21 614	21 614	21 614	21 657	22 719
2005	24 479	24 479	24 479	24 634	27 086
2010	27 389	27 389	27 394	27 751	31 982
2015	31 029	31 029	31 080	31 699	38 300
2020	32 491	32 491	32 634	33 443	42 405
2025	32 383	32 383	32 660	33 624	45 572
2030	32 239	32 239	32 686	33 920	51 050
2035	32 534	32 534	33 194	34 959	61 305
2040	33 809	33 809	34 751	37 405	77 378
2045	33 966	33 966	35 311	39 013	94 765
2050	33 323	33 323	35 253	39 890	112 092
F. Percentage in age group 65 or older					
1995	14.6	14.6	14.6	14.6	14.6
2000	17.1	17.1	17.1	16.9	14.4
2005	19.2	19.2	19.2	18.7	14.2
2010	21.5	21.5	21.5	20.4	14.0
2015	24.6	24.6	24.4	22.5	13.9
2020	26.2	26.2	25.6	23.5	14.0
2025	26.7	26.7	25.6	23.7	14.1
2030	27.3	27.3	25.6	23.9	14.1
2035	28.3	28.3	26.0	24.3	14.0
2040	30.3	30.3	27.3	25.4	13.8
2045	31.4	31.4	27.7	26.0	13.7
2050	31.8	31.8	27.7	26.5	13.7
G. Age group 0-14 (thousands)					
1995	20 019	20 019	20 019	20 019	20 019
2000	18 765	18 765	18 765	19 078	26 888
2005	18 623	18 623	18 623	19 652	34 784
2010	18 827	18 827	18 864	21 016	43 883
2015	18 332	18 332	18 697	22 048	54 338
2020	17 300	17 300	18 236	21 771	58 609
2025	16 349	16 349	17 994	21 065	60 256
2030	15 888	15 888	18 262	20 986	66 786
2035	15 781	15 781	18 831	21 665	83 675
2040	15 632	15 632	19 296	22 960	113 096
2045	15 179	15 179	19 417	23 642	144 006
2050	14 511	14 511	19 297	23 619	170 785
H. Potential support ratio in 2050, by age at entry into non-working-age population					
Age					
65	1.71	1.71	2.07	2.19	4.77
70	2.40	2.40	2.89	3.10	7.04
75	3.64	3.64	4.36	4.77	11.40
80	6.48	6.48	7.68	8.50	21.49

NOTE: The five scenarios are briefly as follows:

- I - Corresponds to the medium variant of the official United Nations population projections (*World Population Prospects, 1998 Revision*);
- II - This scenario amends the medium variant by assuming no migration after 1995;
- III - This scenario keeps the total population figure constant at the highest level that it would reach in absence of migration after 1995.
- IV - This scenario keeps the number of persons aged 15-64 constant at the highest level that it would reach in absence of migration after 1995.
- V - This scenario keeps the ratio of persons aged 15-64 to persons aged 65 and above at the highest level that it would reach in absence of migration after 1995.