

TABLE A.3. GERMANY, 1998 REVISION

## GERMANY

Indicator	A. ESTIMATES									
	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995
Population (thousands)										
Total.....	68 376	70 326	72 673	76 031	77 709	78 679	78 304	77 668	79 365	81 661
Males.....	31 493	32 573	33 800	35 795	36 718	37 322	37 264	37 051	38 276	39 731
Females.....	36 883	37 753	38 873	40 236	40 991	41 357	41 040	40 617	41 088	41 930
Sex ratio (per 100 females).....	85.4	86.3	87.0	89.0	89.6	90.2	90.8	91.2	93.2	94.8
Age distribution:										
Percentage aged 0-4.....	6.6	7.4	7.8	8.5	7.7	5.6	5.1	5.3	5.6	5.0
Percentage aged 5-14.....	16.6	13.8	13.4	14.4	15.6	16.0	13.4	10.7	10.5	11.2
Percentage aged 15-24.....	14.3	15.8	15.8	13.1	12.8	14.5	16.1	16.5	13.7	11.3
Percentage aged 60 or over.....	14.6	15.8	17.3	18.8	19.9	20.4	19.3	19.9	20.4	20.9
Percentage aged 65 or over.....	9.7	10.7	11.5	12.5	13.7	14.8	15.6	14.6	15.0	15.5
Percentage of women aged 15-49.....	50.6	49.6	46.6	43.5	44.4	45.0	47.0	48.8	47.2	46.6
Median age (years).....	35.4	34.5	34.7	34.4	34.3	35.4	36.4	37.1	37.7	38.4
Population density (per sq km).....	192	197	204	213	218	221	220	218	222	229
	1950-1955	1955-1960	1960-1965	1965-1970	1970-1975	1975-1980	1980-1985	1985-1990	1990-1995	
Population change per year (thousands).....	390	469	672	336	194	- 75	- 127	339	459	
Births per year (thousands).....	1 106	1 183	1 330	1 232	886	813	839	874	807	
Deaths per year (thousands).....	771	829	880	950	961	957	938	916	894	
Population growth rate (percentage).....	0.56	0.66	0.90	0.44	0.25	- 0.10	- 0.16	0.43	0.57	
Crude birth rate (per 1,000 population).....	16.0	16.5	17.9	16.0	11.3	10.4	10.8	11.1	10.0	
Crude death rate (per 1,000 population).....	11.1	11.6	11.8	12.4	12.3	12.2	12.0	11.7	11.1	
Total fertility rate (per woman).....	2.16	2.30	2.49	2.32	1.64	1.52	1.46	1.43	1.30	
Gross reproduction rate (per woman).....	1.05	1.12	1.21	1.13	0.80	0.74	0.71	0.70	0.63	
Net reproduction rate (per woman).....	0.85	0.96	1.06	1.02	0.77	0.72	0.70	0.69	0.62	
Infant mortality rate (per 1,000 births).....	51	38	29	23	21	15	11	8	6	
Life expectancy at birth (years)										
Males.....	65.3	66.6	67.4	67.8	67.9	69.0	70.3	71.7	72.6	
Females.....	69.6	71.5	72.9	73.6	73.8	75.5	76.8	78.2	79.2	
Both sexes combined.....	67.5	69.1	70.3	70.8	71.0	72.5	73.8	74.8	76.0	
	B. MEDIUM-VARIANT PROJECTIONS									
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	81 661	82 220	82 365	82 032	81 574	80 996	80 238	79 252	76 531	73 303
Males.....	39 731	40 266	40 550	40 539	40 410	40 177	39 827	39 357	37 995	36 387
Females.....	41 930	41 954	41 815	41 493	41 164	40 819	40 411	39 895	38 536	36 916
Sex ratio (per 100 females).....	94.8	96.0	97.0	97.7	98.2	98.4	98.6	98.7	98.6	98.6
Age distribution:										
Percentage aged 0-4.....	5.0	4.6	4.2	4.1	4.2	4.4	4.4	4.3	4.2	4.4
Percentage aged 5-14.....	11.2	10.9	9.9	9.2	8.7	8.7	9.0	9.2	9.0	9.0
Percentage aged 15-24.....	11.3	11.1	11.8	11.5	10.6	9.9	9.4	9.4	10.1	10.1
Percentage aged 60 or over.....	20.9	23.2	24.6	25.3	26.8	28.9	31.8	34.4	34.8	35.3
Percentage aged 65 or over.....	15.5	16.4	18.5	19.8	20.3	21.6	23.4	26.1	28.8	28.4
Percentage in school ages 6-11.....	6.8	6.4	5.8	5.4	5.1	5.2	5.4	5.5	5.3	5.4
Percentage in school ages 12-14.....	3.3	3.5	3.2	3.0	2.7	2.6	2.7	2.8	2.8	2.8
Percentage in school ages 15-17.....	3.2	3.4	3.5	3.1	2.9	2.7	2.7	2.8	2.9	2.8
Percentage in school ages 18-23.....	6.8	6.6	7.1	7.2	6.5	6.1	5.7	5.7	6.1	6.1
Percentage of women aged 15-49.....	46.6	46.7	46.4	44.9	42.1	39.2	38.1	37.8	36.6	36.6
Median age (years).....	38.4	40.0	42.1	44.1	45.9	46.9	47.3	47.6	48.7	48.4
Population density (per sq km).....	229	230	231	230	229	227	225	222	215	205
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands).....	112	29	-67	-92	-116	-152	-197	-272	-323	
Births per year (thousands).....	754	693	664	684	701	698	678	639	634	
Deaths per year (thousands).....	882	904	930	975	1 017	1 049	1 075	1 111	1 157	
Net migration per year (thousands).....	240	240	200	200	200	200	200	200	200	
Population growth rate (percentage).....	0.14	0.04	- 0.08	- 0.11	- 0.14	- 0.19	- 0.25	- 0.35	- 0.43	
Crude birth rate (per 1,000 population).....	9.2	8.4	8.1	8.4	8.6	8.7	8.5	8.2	8.5	
Crude death rate (per 1,000 population).....	10.8	11.0	11.3	11.9	12.5	13.0	13.5	14.3	15.4	
Net migration rate (per 1,000 population).....	2.9	2.9	2.4	2.4	2.5	2.5	2.5	2.6	2.7	
Total fertility rate (per woman).....	1.30	1.33	1.37	1.44	1.51	1.58	1.63	1.64	1.64	
Gross reproduction rate (per woman).....	0.63	0.65	0.66	0.70	0.73	0.77	0.80	0.80	0.80	
Net reproduction rate (per woman).....	0.63	0.64	0.66	0.69	0.73	0.76	0.79	0.79	0.79	
Infant mortality rate (per 1,000 births).....	5	5	5	5	5	5	5	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.....	73.9	74.7	75.5	76.0	76.5	77.0	77.5	78.1	78.9	
Females.....	80.2	80.7	81.2	81.7	82.2	82.7	83.1	83.7	84.5	
Both sexes combined.....	77.2	77.8	78.4	78.9	79.4	79.8	80.3	80.9	81.7	

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

TABLE A.3 (continued)

GERMANY

C. HIGH-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	81 661	82 393	83 056	83 364	83 606	83 811	83 955	84 061	83 977	83 817
Males.....	39 731	40 355	40 905	41 223	41 453	41 622	41 734	41 825	41 814	41 777
Females.....	41 930	42 038	42 152	42 141	42 154	42 189	42 220	42 237	42 162	42 039
Age distribution:										
Percentage aged 0-4.....	5.0	4.8	4.8	4.8	5.0	5.1	5.3	5.4	5.4	5.7
Percentage aged 5-14.....	11.2	10.9	10.1	9.9	9.8	10.0	10.3	10.7	11.0	11.3
Percentage aged 15-24.....	11.3	11.1	11.7	11.3	10.6	10.4	10.3	10.5	11.2	11.6
Percentage aged 60 or over.....	20.9	23.1	24.4	24.9	26.2	27.9	30.4	32.4	31.7	30.9
Percentage aged 65 or over.....	15.5	16.3	18.4	19.5	19.8	20.8	22.3	24.7	26.2	24.8
Percentage of women aged 15-49.....	46.6	46.7	46.0	44.3	41.3	38.7	38.0	38.0	37.7	38.9
Median age (years).....	38.4	39.9	41.8	43.6	45.2	45.6	45.4	45.3	44.9	43.2
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands).....	146	133	61	49	41	29	21	- 8	- 16	
Population growth rate (percentage).....	0.18	0.16	0.07	0.06	0.05	0.03	0.03	- 0.01	- 0.02	
Crude birth rate (per 1,000 population).....	9.6	9.6	9.5	9.9	10.3	10.5	10.7	10.8	11.3	
Crude death rate (per 1,000 population).....	10.8	10.9	11.2	11.7	12.2	12.5	12.8	13.3	13.8	
Net migration rate (per 1,000 population).....	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
Total fertility rate (per woman).....	1.36	1.53	1.63	1.73	1.83	1.93	2.02	2.04	2.04	
Gross reproduction rate (per woman).....	0.66	0.75	0.79	0.84	0.89	0.94	0.98	0.99	0.99	
Net reproduction rate (per woman).....	0.66	0.74	0.79	0.83	0.88	0.93	0.98	0.98	0.99	
D. LOW-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	81 661	82 071	81 879	81 147	80 131	78 831	77 193	75 196	70 312	64 615
Males.....	39 731	40 189	40 300	40 085	39 669	39 066	38 264	37 275	34 805	31 932
Females.....	41 930	41 881	41 579	41 062	40 462	39 765	38 929	37 920	35 507	32 683
Age distribution:										
Percentage aged 0-4.....	5.0	4.4	3.8	3.6	3.6	3.6	3.4	3.2	2.9	3.0
Percentage aged 5-14.....	11.2	10.9	9.8	8.7	7.9	7.7	7.7	7.5	6.9	6.6
Percentage aged 15-24.....	11.3	11.1	11.9	11.7	10.6	9.5	8.8	8.7	8.7	8.2
Percentage aged 60 or over.....	20.9	23.2	24.7	25.6	27.3	29.6	33.1	36.2	37.9	40.1
Percentage aged 65 or over.....	15.5	16.4	18.6	20.0	20.7	22.2	24.3	27.6	31.3	32.2
Percentage of women aged 15-49.....	46.6	46.8	46.7	45.4	42.6	39.6	38.4	37.9	35.6	33.9
Median age (years).....	38.4	40.1	42.2	44.4	46.5	47.9	48.9	49.6	51.7	53.2
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population change per year (thousands).....	82	-38	-146	-203	-260	-328	-400	-488	-570	
Population growth rate (percentage).....	0.10	- 0.05	- 0.18	- 0.25	- 0.33	- 0.42	- 0.52	- 0.67	- 0.85	
Crude birth rate (per 1,000 population).....	8.8	7.6	7.2	7.1	7.0	6.7	6.2	5.8	5.7	
Crude death rate (per 1,000 population).....	10.8	11.0	11.4	12.1	12.8	13.4	14.1	15.2	17.1	
Net migration rate (per 1,000 population).....	2.9	2.9	2.5	2.5	2.5	2.6	2.6	2.7	3.0	
Total fertility rate (per woman).....	1.25	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
Gross reproduction rate (per woman).....	0.61	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	
Net reproduction rate (per woman).....	0.60	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	
E. CONSTANT-VARIANT PROJECTIONS										
	1995	2000	2005	2010	2015	2020	2025	2030	2040	2050
Population (thousands)										
Total.....	81 661	82 215	82 282	81 792	81 013	79 959	78 586	76 881	72 624	67 552
	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030	2030-2040	2040-2050	
Population growth rate (percentage).....	0.14	0.02	- 0.12	- 0.19	- 0.26	- 0.35	- 0.44	- 0.57	- 0.72	
Crude birth rate (per 1,000 population).....	9.2	8.2	7.7	7.6	7.5	7.2	6.9	6.5	6.4	
Crude death rate (per 1,000 population).....	10.8	11.0	11.3	12.0	12.6	13.2	13.8	14.8	16.5	

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

TABLE A.4. GERMANY, REPLACEMENT MIGRATION SCENARIOS

## GERMANY

Scenario	I	II	III	IV	V	VI
Period	Medium variant	Medium variant with zero migration	Constant total population	Constant age group 15-64	Ratio 15-64/65+ not less than 3.0	Constant ratio 15-64/65 years or older
<i>A. Average annual net migration (thousands)</i>						
1995-2000	240	0	130	176	0	1 398
2000-2005	240	0	215	417	0	3 251
2005-2010	200	0	268	334	0	1 879
2010-2015	200	0	286	294	0	806
2015-2020	200	0	301	578	1 056	2 081
2020-2025	200	0	325	740	2 100	3 347
2025-2030	200	0	357	896	2 837	5 646
2030-2035	200	0	399	747	2 103	6 462
2035-2040	200	0	422	287	0	4 718
2040-2045	200	0	432	213	0	4 016
2045-2050	200	0	431	360	0	4 096
Grand total 1995-2050	11 400	0	17 838	25 209	40 481	188 497
<i>B. Total population (thousands)</i>						
1995	81 661	81 661	81 661	81 661	81 661	81 661
2000	82 220	80 985	81 661	81 898	80 985	88 241
2005	82 365	79 819	81 661	82 965	79 819	104 482
2010	82 032	78 302	81 661	83 397	78 302	114 386
2015	81 574	76 601	81 661	83 539	76 601	119 011
2020	80 996	74 733	81 661	85 076	80 258	130 126
2025	80 238	72 643	81 661	87 451	89 661	148 307
2030	79 252	70 287	81 661	90 645	103 615	179 530
2035	77 989	67 636	81 661	93 030	114 503	216 669
2040	76 531	64 785	81 661	92 923	114 655	246 258
2045	74 948	61 817	81 661	92 178	114 132	272 559
2050	73 303	58 812	81 661	92 022	113 181	299 272
<i>C. Age group 15-64 (thousands)</i>						
1995	55 763	55 763	55 763	55 763	55 763	55 763
2000	56 025	55 114	55 595	55 763	55 114	60 271
2005	55 424	53 520	54 835	55 763	53 520	71 107
2010	54 917	52 103	54 516	55 763	52 103	78 064
2,015	54 503	50 736	54 391	55 763	50 736	81 650
2020	52 995	48 249	53 277	55 763	52 149	88 910
2025	50 773	45 042	51 588	55 763	57 029	100 331
2030	47 855	41 145	49 357	55 763	64 603	119 722
2035	45 353	37 698	47 718	55 763	70 814	143 049
2040	44 425	35 922	47 813	55 763	71 605	162 446
2045	43 767	34 514	48 307	55 763	72 637	180 580
2050	42 706	32 744	48 426	55 763	72 667	199 400
<i>D. Potential support ratio 15-64/65 or older</i>						
1995	4.41	4.41	4.41	4.41	4.41	4.41
2000	4.17	4.11	4.14	4.15	4.11	4.41
2005	3.63	3.53	3.60	3.65	3.53	4.41
2010	3.38	3.23	3.35	3.42	3.24	4.41
2015	3.29	3.10	3.27	3.34	3.10	4.41
2020	3.03	2.81	3.04	3.15	3.00	4.41
2025	2.71	2.45	2.74	2.91	3.00	4.41
2030	2.31	2.04	2.37	2.61	3.00	4.41
2035	2.04	1.76	2.12	2.40	3.00	4.41
2040	2.02	1.72	2.14	2.39	3.03	4.41
2045	2.05	1.75	2.22	2.43	3.14	4.41
2050	2.05	1.75	2.26	2.44	3.13	4.41

TABLE A.4 (continued)

GERMANY

Scenario	I	II	III	IV	V	VI
Period	Medium variant	Medium variant with zero migration	Constant total population	Constant age group 15-64	Ratio 15-64/65+ not less than 3.0	Constant ratio 15-64/65 years or older
<i>E. Age group 65 or older (thousands)</i>						
1995	12 634	12 634	12 634	12 634	12 634	12 634
2000	13 444	13 403	13 427	13 435	13 403	13 656
2005	15 266	15 176	15 247	15 295	15 176	16 111
2010	16 247	16 108	16 250	16 326	16 108	17 687
2015	16 575	16 380	16 612	16 709	16 380	18 499
2020	17 468	17 190	17 536	17 702	17 383	20 144
2025	18 762	18 354	18 854	19 144	19 010	22 732
2030	20 721	20 133	20 858	21 351	21 534	27 125
2035	22 233	21 405	22 467	23 205	23 604	32 411
2040	22 027	20 849	22 378	23 337	23 613	36 805
2045	21 323	19 692	21 793	22 968	23 146	40 914
2050	20 794	18 689	21 428	22 861	23 250	45 178
<i>F. Percentage in age group 65 or older</i>						
1995	15.5	15.5	15.5	15.5	15.5	15.5
2000	16.4	16.6	16.4	16.4	16.6	15.5
2005	18.5	19.0	18.7	18.4	19.0	15.4
2010	19.8	20.6	19.9	19.6	20.6	15.5
2015	20.3	21.4	20.3	20.0	21.4	15.5
2020	21.6	23.0	21.5	20.8	21.7	15.5
2025	23.4	25.3	23.1	21.9	21.2	15.3
2030	26.1	28.6	25.5	23.6	20.8	15.1
2035	28.5	31.6	27.5	24.9	20.6	15.0
2040	28.8	32.2	27.4	25.1	20.6	14.9
2045	28.5	31.9	26.7	24.9	20.3	15.0
2050	28.4	31.8	26.2	24.8	20.5	15.1
<i>G. Age group 0-14 (thousands)</i>						
1995	13 264	13 264	13 264	13 264	13 264	13 264
2000	12 751	12 468	12 640	12 700	12 468	14 315
2005	11 675	11 123	11 579	11 907	11 123	17 265
2010	10 868	10 091	10 896	11 307	10 091	18 635
2015	10 496	9 485	10 657	11 067	9 485	18 862
2020	10 534	9 294	10 848	11 611	10 726	21 072
2025	10 704	9 248	11 219	12 543	13 623	25 244
2030	10 675	9 009	11 446	13 531	17 478	32 683
2035	10 403	8 533	11 475	14 063	20 085	41 210
2040	10 079	8 015	11 470	13 823	19 437	47 007
2045	9 858	7 611	11 562	13 447	18 348	51 065
2050	9 803	7 379	11 807	13 398	17 264	54 694
<i>H. Potential support ratio in 2050, by age at entry into non-working-age population</i>						
Age						
65	2.05	1.75	2.26	2.44	3.13	4.41
70	2.93	2.48	3.22	3.49	4.45	6.45
75	4.25	3.55	4.66	5.08	6.35	10.02
80	6.65	5.50	7.29	7.99	9.77	17.27

NOTE: The six scenarios can be described 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 the 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 the absence of migration after 1995.
- V – This scenario prevents the ratio of persons aged 15-64 to persons aged 65 and above from falling below 3.0.
- VI – This scenario keeps the ratio of persons aged 15-64 and above at the highest level that it would reach in the absence of migration after 1995. This scenario is considered to be demographically unrealistic.