

**Table 9. Water use, deforestation, and protected areas**

Economy	Freshwater resources Cu. meters per capita 1998	Annual freshwater withdrawals					Access to improved water source % of pop. with access 1996 <sup>c</sup>		Annual deforestation 1990-95		Nationally protected areas 1996	
		Billion cu. m <sup>a</sup>	% of total resources <sup>a</sup>	% for agriculture <sup>b</sup>	% for industry <sup>b</sup>	% for domestic use <sup>b</sup>	Urban	Rural	Square kilometers	Avg. annual % change	Thousand square km	% of total land area
Albania	12,758 <sup>d</sup>	1.4	3.3 <sup>d</sup>	71	0	29	97	70	0	0.0	0.8	2.9
Algeria	485 <sup>d</sup>	4.5	31.5 <sup>d</sup>	60 <sup>e</sup>	15 <sup>e</sup>	25 <sup>e</sup>	..	..	234	1.2	58.9	2.5
Angola	15,783	0.5	0.3	76 <sup>e</sup>	10 <sup>e</sup>	14 <sup>e</sup>	69	15	2,370	1.0	81.8	6.6
Argentina	27,865 <sup>d</sup>	28.6	2.8 <sup>d</sup>	75	9	16	71	24	894	0.3	46.6	1.7
Armenia	2,767 <sup>d</sup>	2.9	27.9 <sup>d</sup>	66	4	30	..	..	-84	-2.7	2.1	7.4
Australia	18,772	15.1	4.3	33	2	65	..	..	-170	0.0	563.9	7.3
Austria	10,399 <sup>d</sup>	2.2	2.7 <sup>d</sup>	9	60	31	..	..	0	0.0	23.4	28.3
Azerbaijan	3,831 <sup>d</sup>	16.5	54.6 <sup>d</sup>	70	25	5	..	..	0	0.0	4.8	5.5
Bangladesh	9,636 <sup>d</sup>	14.6	1.2 <sup>d</sup>	86	2	12	47	85	88	0.8	1.0	0.8
Belarus	5,665 <sup>d</sup>	2.7	4.7 <sup>d</sup>	35	43	22	..	..	-688	-1.0	8.6	4.1
Belgium	1,228 <sup>d</sup>	9.0	72.2 <sup>d</sup>	4	85	11	..	..	..	..	0.8	..
Benin	4,337 <sup>d</sup>	0.2	0.6 <sup>d</sup>	67 <sup>e</sup>	10 <sup>e</sup>	23 <sup>e</sup>	41	53	596	1.2	7.8	7.1
Bolivia	38,625	1.4	0.4	48	20	32	..	..	5,814	1.2	156.0	14.4
Botswana	9,413 <sup>d</sup>	0.1	0.7 <sup>d</sup>	48 <sup>e</sup>	20 <sup>e</sup>	32 <sup>e</sup>	100	53	708	0.5	105.0	18.5
Brazil	42,459 <sup>d</sup>	54.9	0.5 <sup>d</sup>	61	18	21	..	..	25,544	0.5	355.5	4.2
Bulgaria	24,663 <sup>d</sup>	13.9	6.8 <sup>d</sup>	22	76	3	..	..	-6	0.0	4.9	4.4
Burkina Faso	1,671	0.4	2.2	81 <sup>e</sup>	0 <sup>e</sup>	19 <sup>e</sup>	..	..	320	0.7	28.6	10.5
Burundi	561	0.1	2.8	64 <sup>e</sup>	0 <sup>e</sup>	36 <sup>e</sup>	..	..	14	0.4	1.4	5.5
Cambodia	41,407	0.5	0.1	94	1	5	20	12	1,638	1.6	28.6	16.2
Cameroon	18,737	0.4	0.1	35 <sup>e</sup>	19 <sup>e</sup>	46 <sup>e</sup>	71	24	1,292	0.6	21.0	4.5
Canada	92,142	45.1	1.6	9	80	11	..	..	-1,764	-0.1	921.0	10.0
Central African Republic	41,250	0.1	0.0	73 <sup>e</sup>	6 <sup>e</sup>	21 <sup>e</sup>	..	..	1,282	0.4	51.1	8.2
Chad	5,904 <sup>d</sup>	0.2	0.4 <sup>d</sup>	82 <sup>e</sup>	2 <sup>e</sup>	16 <sup>e</sup>	48	17	942	0.8	114.9	9.1
Chile	32,007	21.4	3.6	84	11	5	..	..	292	0.4	141.3	18.9
China	2,285	525.5	18.6	77	18	5	93	89	866	0.1	598.1	6.4
Hong Kong, China	..	..	..	..	..	..	..	..	..	..	0.4	40.4
Colombia	26,722	8.9	0.5	37	4	59	88	48	2,622	0.5	93.6	9.0
Congo, Dem. Rep.	21,134	0.4	0.0	23 <sup>e</sup>	16 <sup>e</sup>	61 <sup>e</sup>	..	..	..	..	101.9	4.5
Congo, Rep.	298,963 <sup>d</sup>	0.0	0.0 <sup>d</sup>	11 <sup>e</sup>	27 <sup>e</sup>	62 <sup>e</sup>	50	8	416	0.2	15.4	4.5
Costa Rica	27,425	5.8	1.4	80	7	13	..	..	414	3.0	7.0	13.7
Côte d'Ivoire	5,362	0.7	0.9	67 <sup>e</sup>	11 <sup>e</sup>	22 <sup>e</sup>	59	81	308	0.6	19.9	6.3
Croatia	15,863	0.1	0.1	..	50	50	75	41	0	0.0	3.7	6.6
Czech Republic	1,554	2.5	15.8	2	57	41	..	..	-2	0.0	12.2	15.8
Denmark	2,460 <sup>d</sup>	0.9	9.2 <sup>d</sup>	43	27	30	..	..	0	0.0	13.7	32.3
Dominican Republic	2,467	8.3	14.9	89	1	11	74	67	264	1.6	12.2	25.2
Ecuador	26,305	17.0	1.8	82	6	12	82	55	1,890	1.6	119.3	43.1
Egypt, Arab Rep.	949 <sup>d</sup>	55.1	94.5 <sup>d</sup>	86 <sup>e</sup>	8 <sup>e</sup>	6 <sup>e</sup>	82	50	0	0.0	7.9	0.8
El Salvador	3,197	0.7	5.3	46	20	34	78	37	38	3.3	0.1	0.5
Eritrea	2,269	..	..	..	..	..	..	..	0	0.0	5.0	5.0
Estonia	8,829	0.2	1.3 <sup>d</sup>	5	39	56	..	..	-196	-1.0	5.1	12.1
Ethiopia	1,795	2.2	2.0	86 <sup>e</sup>	3 <sup>e</sup>	11 <sup>e</sup>	90	20	624	0.5	55.2	5.5
Finland	21,347	2.4	2.2 <sup>d</sup>	3	85	12	100	85	166	0.1	18.2	6.0
France	3,246 <sup>d</sup>	40.6	21.3 <sup>d</sup>	12	73	15	100	100	-1,608	-1.1	58.8	10.7
Georgia	11,632 <sup>d</sup>	3.5	5.5 <sup>d</sup>	59	20	21	..	..	0	0.0	1.9	2.7
Germany	2,169 <sup>d</sup>	46.3	26.0 <sup>d</sup>	0	86	14	..	..	0	0.0	94.2	27.0
Ghana	2,882 <sup>d</sup>	0.3 <sup>f</sup>	0.6 <sup>d</sup>	52 <sup>e</sup>	13 <sup>e</sup>	35 <sup>e</sup>	70	49	1,172	1.3	11.0	4.8
Greece	6,562 <sup>d</sup>	7.0	10.2 <sup>d</sup>	81	3	16	..	..	-1,408	-2.3	3.1	2.4
Guatemala	11,030	1.2	0.6	74	17	9	97	48	824	2.0	18.2	16.8
Guinea	31,910	0.7	0.3	87 <sup>e</sup>	3 <sup>e</sup>	10 <sup>e</sup>	61	62	748	1.1	1.6	0.7
Haiti	1,468	1.0	0.4	94	1	5	37	23	8	3.4	0.1	0.4
Honduras	9,258	1.5	2.7	91	5	4	81	53	1,022	2.3	11.1	9.9
Hungary	11,865 <sup>d</sup>	6.3	5.2 <sup>d</sup>	36	55	9	..	..	-88	-0.5	6.3	6.8
India	1,947 <sup>d</sup>	500.0	26.2 <sup>d</sup>	92	3	5	85	79	-72	0.0	142.9	4.8
Indonesia	12,625	74.3	0.7	93	1	6	78	54	10,844	1.0	192.3	10.6
Iran, Islamic Rep.	1,339	70.0	85.8	92	2	6	..	..	284	1.7	83.0	5.1
Ireland	14,035 <sup>d</sup>	1.2	2.3 <sup>d</sup>	10	74	16	..	..	-140	-2.7	0.6	0.9
Israel	184 <sup>d</sup>	1.7	155.5 <sup>d</sup>	64 <sup>e</sup>	7 <sup>e</sup>	29 <sup>e</sup>	100	95	0	0.0	3.1	15.0
Italy	2,909 <sup>d</sup>	57.5	34.4 <sup>d</sup>	45	37	18	..	..	-58	-0.1	21.5	7.3
Jamaica	3,250	0.9	3.9	77	7	15	92	48	158	7.2	0.0	0.0
Japan	3,402	91.4	21.3	64	17	19	..	..	132	0.1	25.5	6.8
Jordan	198 <sup>d</sup>	1.0	51.1 <sup>d</sup>	75	3	22	..	..	12	2.5	3.0	3.4
Kazakhstan	7,029 <sup>d</sup>	33.7	30.7 <sup>d</sup>	81	17	2	..	..	-1,928	-1.9	73.4	2.7
Kenya	1,031 <sup>d</sup>	2.1	6.8 <sup>d</sup>	76 <sup>e</sup>	4 <sup>e</sup>	20 <sup>e</sup>	67	49	34	0.3	35.0	6.1
Korea, Rep.	1,501	23.7	34.0	63	11	26	93	77	130	0.2	6.8	6.9
Kuwait	0	0.5	2,700.0	60	2	37	100	100	0	0.0	0.3	1.7
Kyrgyz Republic	10,049	10.1	94.9	94	3	3	93	42	0	0.0	6.9	3.6
Lao PDR	56,638	1.0	0.4	82	10	8	40	39	..	..	0.0	0.0
Latvia	14,455 <sup>d</sup>	0.3	0.8 <sup>d</sup>	13	32	55	92	..	-250	-0.9	7.8	12.6
Lebanon	1,140	1.3	26.9	68	4	28	100	100	52	7.8	0.0	0.0
Lesotho	2,527	0.1	1.0	56 <sup>e</sup>	22 <sup>e</sup>	22 <sup>e</sup>	14	64	0	0.0	0.1	0.3
Lithuania	6,724 <sup>d</sup>	0.3	1.0 <sup>d</sup>	3	16	81	..	..	-112	-0.6	6.5	10.0
Macedonia, FYR	3,483	..	..	..	..	..	..	..	2	0.0	1.8	7.1
Madagascar	23,094	19.7	5.8	99 <sup>e</sup>	0 <sup>e</sup>	1 <sup>e</sup>	83	10	1,300	0.8	11.2	1.9
Malawi	1,775 <sup>d</sup>	0.9	5.0 <sup>d</sup>	86 <sup>e</sup>	3 <sup>e</sup>	10 <sup>e</sup>	52	44	546	1.6	10.6	11.3
Malaysia	21,046	12.7	2.1	76	13	11	100	86	4,002	2.4	14.8	4.5

## ENVIRONMENT

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		Billion cu. m <sup>a</sup>	% of total resources <sup>a</sup>	% for agriculture <sup>b</sup>	% for industry <sup>b</sup>	% for domestic use <sup>b</sup>	Urban	Rural	Square kilometers	Avg. annual % change	Thousand square km	% of total land area
Mali	9,438	1.4	1.4	97 <sup>e</sup>	1 <sup>e</sup>	2 <sup>e</sup>	36	38	1,138	1.0	45.3	3.7
Mauritania	4,508 <sup>d</sup>	16.3	143.0 <sup>d</sup>	92	2	6	87	41	0	0.0	17.5	1.7
Mexico	4,779	77.8	17.0	78	5	17	91	62	5,080	0.9	71.0	3.7
Moldova	2,722	3.0	25.3 <sup>d</sup>	26	65	9	98	18	0	0.0	0.4	1.2
Mongolia	9,677	0.4	2.2	53	27	20	..	..	0	0.0	161.3	10.3
Morocco	1,080	11.1	36.8	92 <sup>e</sup>	3 <sup>e</sup>	5 <sup>e</sup>	98	14	118	0.3	3.2	0.7
Mozambique	12,746 <sup>d</sup>	0.6	0.3 <sup>d</sup>	89	2 <sup>e</sup>	9 <sup>e</sup>	17	40	1,162	0.7	47.8	6.1
Myanmar	23,515	4.0	0.4	90	3	7	36	39	3,874	1.4	1.7	0.3
Namibia	27,373 <sup>d</sup>	0.3	0.5 <sup>d</sup>	68 <sup>e</sup>	3 <sup>e</sup>	29 <sup>e</sup>	..	..	420	0.3	106.2	12.9
Nepal	9,199	29.0	13.8	99	0	1	..	..	548	1.1	11.1	7.8
Netherlands	5,797 <sup>d</sup>	7.8	8.6	34	61	5	100	100	0	0.0	2.4	7.1
New Zealand	86,053	2.0	100.0	44	10	46	..	..	-434	-0.6	63.3	23.6
Nicaragua	37,467	1.3	0.5	84	2	14	81	27	1,508	2.5	9.0	7.4
Niger	3,204 <sup>d</sup>	0.5	1.5 <sup>d</sup>	82 <sup>e</sup>	2 <sup>e</sup>	16 <sup>e</sup>	46	55	0	0.0	96.9	7.6
Nigeria	2,318 <sup>d</sup>	4.0	1.4 <sup>d</sup>	54 <sup>e</sup>	15 <sup>e</sup>	31 <sup>e</sup>	63	26	1,214	0.9	30.2	3.3
Norway	88,673 <sup>d</sup>	2.0	0.5 <sup>d</sup>	8	72	20	100	100	-180	-0.2	93.7	30.5
Pakistan	1,938 <sup>d</sup>	155.6	61.0 <sup>d</sup>	97	2	2	77	52	550	2.9	37.2	4.8
Panama	52,961	1.6	0.9	70	2	28	99	73	636	2.1	14.2	19.1
Papua New Guinea	177,940	0.1	0.0	49	22	29	84	17	1,332	0.4	0.1	0.0
Paraguay	61,750	0.4	0.1 <sup>d</sup>	78	7	15	70	6	3,266	2.6	14.0	3.5
Peru	1,641	19.0	15.3	86	7	7	..	..	2,168	0.3	34.6	2.7
Philippines	4,393	55.4	9.1	88	4	8	91	81	2,624	3.5	14.5	4.9
Poland	1,629 <sup>d</sup>	12.1	19.2 <sup>d</sup>	11	76	13	..	..	-120	-0.1	29.1	9.6
Portugal	7,223 <sup>d</sup>	7.3	10.1 <sup>d</sup>	48	37	15	..	..	-240	-0.9	5.9	6.4
Romania	9,222 <sup>d</sup>	26.0	12.5 <sup>d</sup>	59	33	8	69	10	12	0.0	10.7	4.6
Russian Federation	30,619 <sup>d</sup>	77.1	1.7 <sup>d</sup>	20	62	19	..	..	0	0.0	516.7	3.1
Rwanda	798	0.8	12.2	94 <sup>e</sup>	1 <sup>e</sup>	5 <sup>e</sup>	..	44	4	0.2	3.6	14.6
Saudi Arabia	116	17.0	708.3	90	1	9	..	..	18	0.8	49.6	2.3
Senegal	4,359 <sup>d</sup>	1.5	3.8 <sup>d</sup>	92 <sup>e</sup>	3 <sup>e</sup>	5 <sup>e</sup>	82	28	496	0.7	21.8	11.3
Sierra Leone	32,957	0.4	0.2	89 <sup>e</sup>	4 <sup>e</sup>	7 <sup>e</sup>	58	21	426	3.0	0.8	1.1
Singapore	193	0.2	31.7	4	51	45	100	..	0	0.0	0.0	0.0
Slovak Republic	15,396	1.4	1.7	..	..	..	..	..	-24	-0.1	10.5	21.8
Slovenia	9,334	0.5	2.7	..	50	50	100	97	0	0.0	1.1	5.5
South Africa	1,208 <sup>d</sup>	13.3	26.6 <sup>d</sup>	72 <sup>e</sup>	11 <sup>e</sup>	17 <sup>e</sup>	..	..	150	0.2	65.8	5.4
Spain	2,847 <sup>d</sup>	35.5	31.7 <sup>d</sup>	62	26	12	..	..	0	0.0	42.2	8.4
Sri Lanka	2,329	9.8	14.6	96	2	2	..	..	202	1.1	8.6	13.3
Sweden	20,109 <sup>d</sup>	2.7	1.5 <sup>d</sup>	9	55	36	..	..	24	0.0	36.2	8.8
Switzerland	7,458 <sup>d</sup>	2.6	4.9 <sup>d</sup>	0	58	42	100	100	0	0.0	7.1	18.0
Syrian Arab Republic	2,926	14.4	32.2	94	2	4	92	78	52	2.2	0.0	0.0
Tajikistan	13,017	11.9	14.9	92	4	4	86	32	0	0.0	5.9	4.2
Tanzania	2,770 <sup>d</sup>	1.2	1.3 <sup>d</sup>	89 <sup>e</sup>	2 <sup>e</sup>	9 <sup>e</sup>	65	45	3,226	1.0	138.2	15.6
Thailand	6,698 <sup>d</sup>	33.1	8.1 <sup>d</sup>	91	4	5	94	88	3,294	2.6	70.7	13.8
Togo	2,692 <sup>d</sup>	0.1	0.8 <sup>d</sup>	25 <sup>e</sup>	13 <sup>e</sup>	62 <sup>e</sup>	..	..	186	1.4	4.3	7.9
Tunisia	439 <sup>d</sup>	2.8	69.0 <sup>d</sup>	86 <sup>e</sup>	2 <sup>e</sup>	13 <sup>e</sup>	..	..	30	0.5	0.4	0.3
Turkey	3,213 <sup>d</sup>	35.5	17.4 <sup>d</sup>	73 <sup>e</sup>	11 <sup>e</sup>	16 <sup>e</sup>	..	..	0	0.0	10.7	1.4
Turkmenistan	9,644 <sup>d</sup>	23.8	52.3 <sup>d</sup>	98	1	1	80	5	0	0.0	19.8	4.2
Uganda	3,158 <sup>d</sup>	0.2	0.3 <sup>d</sup>	60	8	32	47	32	592	0.9	19.1	9.6
Ukraine	2,776 <sup>d</sup>	26.0 <sup>f</sup>	18.6 <sup>d</sup>	30	52	18	77	12	-54	-0.1	9.0	1.6
United Kingdom	2,489	9.3	6.4	3	77	20	100	100	-128	-0.5	50.6	20.9
United States	9,168 <sup>d</sup>	447.7	18.1 <sup>d</sup>	27 <sup>e</sup>	65 <sup>e</sup>	8 <sup>e</sup>	..	..	-5,886	-0.3	1,226.7	13.4
Uruguay	37,971 <sup>d</sup>	4.2	0.5 <sup>d</sup>	91	3	6	99	..	4	0.0	0.5	0.3
Uzbekistan	5,476 <sup>d</sup>	58.1	63.4 <sup>d</sup>	94	2	4	72	46	-2,260	-2.7	8.2	2.0
Venezuela, RB	57,821 <sup>d</sup>	4.1	0.3 <sup>d</sup>	46	10	44	..	..	5,034	1.1	319.8	36.3
Vietnam	11,647	54.3	6.1	86	10	4	53	32	1,352	1.4	9.9	3.0
Yemen, Rep.	254	2.9	71.5	92	1	7	74	14	0	0.0	0.0	0.0
Zambia	12,001 <sup>d</sup>	1.7	1.5 <sup>d</sup>	77 <sup>e</sup>	7 <sup>e</sup>	16 <sup>e</sup>	64	27	2,644	0.8	63.6	8.6
Zimbabwe	1,711 <sup>d</sup>	1.2	6.1 <sup>d</sup>	79 <sup>e</sup>	7 <sup>e</sup>	14 <sup>e</sup>	99	64	500	0.6	30.7	7.9
<b>World</b>	<b>8,354 w</b>	<b>..</b>	<b>..</b>	<b>70 w</b>	<b>22 w</b>	<b>8 w</b>	<b>.. w</b>	<b>.. w</b>	<b>101,724 s</b>	<b>0.3 w</b>	<b>8,543.5 s</b>	<b>6.6 w</b>
<b>Low income</b>	5,538	..	..	87	8	5	..	..	45,130	0.7	1,852.4	5.6
<b>Middle income</b>	9,333	..	..	74	13	12	..	..	68,288	0.3	3,396.9	5.1
Lower middle income	6,227	..	..	75	15	10	90	84	25,214	0.2	2,095.5	4.8
Upper middle income	..	..	..	73	10	17	..	..	43,074	0.5	1,301.4	5.9
<b>Low and middle income</b>	8,114	..	..	82	10	7	..	..	113,418	0.4	5,249.3	5.3
East Asia & Pacific	..	..	..	80	14	6	89	82	29,956	0.8	1,102.2	6.9
Europe & Central Asia	14,341	..	..	63	26	11	..	..	-5,798	-0.1	768.0	3.2
Latin America & Caribbean	27,393	..	..	74	9	18	..	..	57,766	0.6	1,456.3	7.3
Middle East & North Africa	1,045	..	..	89	4	6	..	..	800	0.9	242.1	2.2
South Asia	4,088	..	..	93	2	4	83	75	1,316	0.2	213.0	4.5
Sub-Saharan Africa	8,441	..	..	87	4	9	..	..	29,378	0.7	1,467.7	6.2
<b>High income</b>	..	..	..	30	59	11	..	..	-11,694	-0.2	3,294.2	10.8

Note: For data comparability and coverage, see the Technical Notes. Figures in italics are for years other than those specified.

a. Refers to any year from 1980 to 1998, unless otherwise noted. b. Unless otherwise noted, percentages are estimated for 1987. c. Data refer to the most recent year available in 1990-96. d. Total water resources include river flows from other countries. e. Data refer to a year other than 1987 (see the primary data documentation table in *World Development Indicators 2000*). f. Data refer to a year before 1980 (see the primary data documentation table in *World Development Indicators 2000*).