

Table 9. Water use, deforestation, and protected areas

Economy	Freshwater resources Cu. meters per capita 1996	Annual freshwater withdrawals					Access to safe water % of population with access 1995		Annual deforestation 1990-95		Nationally protected areas 1996	
		Billion cu. m ^a	% of total resources ^a	% for agriculture ^b	% for industry ^b	% for domestic use ^b	Urban	Rural	Square kilometers	Avg. annual % change	Thousand square km	% of total land area
Albania	16,785 ^c	0.2 ^d	0.4 ^c	76	18	6	97	70	0	0.0	0.8	2.9
Algeria	463 ^c	4.5	33.2 ^c	60 ^c	15 ^c	25 ^c	..	..	234	1.2	58.9	2.5
Angola	15,782	0.5	0.3	76 ^c	10 ^c	14 ^c	69	15	2,370	1.0	81.8	6.6
Argentina	27,861 ^c	27.6 ^d	2.8 ^c	73	18	9	71	24	894	0.3	46.6	1.7
Armenia	2,136 ^c	3.8	47.0 ^c	72	15	13	..	..	-84	-2.7	2.1	7.4
Australia	18,508	14.6 ^d	4.3	33	2	65	..	..	-170	0.0	563.9	7.3
Austria	11,187 ^c	2.4	2.6 ^c	9	58	33	..	..	0	0.0	23.4	28.3
Azerbaijan	4,339 ^c	15.8	47.9 ^c	74	22	4	..	..	0	0.0	4.8	5.5
Bangladesh	19,065 ^c	22.5	1.0 ^c	96	1	3	49	..	88	0.8	1.0	0.8
Belarus	1,841 ^c	3.0	15.9 ^c	19	49	32	..	..	-688	-1.0	8.6	4.1
Belgium	1,227 ^c	9.0	72.2 ^c	4	85	11	..	..	0	0.0	0.8	..
Benin	4,451 ^c	0.2	0.6 ^c	67 ^c	10 ^c	23 ^c	82	69	596	1.2	7.8	7.1
Bolivia	38,625	1.2	0.4	85	5	10	88	43	5,814	1.2	156.0	14.4
Botswana	9,589 ^c	0.1	0.7 ^c	48 ^c	20 ^c	32 ^c	100	77	708	0.5	105.0	18.5
Brazil	42,459 ^c	36.5	0.5 ^c	59	19	22	80	28	25,544	0.5	355.5	4.2
Bulgaria	24,663 ^c	13.9	6.8 ^c	22	76	3	..	..	-6	0.0	4.9	4.4
Burkina Faso	1,671	0.4	2.2	81 ^c	0 ^c	19 ^c	..	..	320	0.7	28.6	10.5
Burundi	559	0.1	2.8	64 ^c	0 ^c	36 ^c	..	..	14	0.4	1.4	5.5
Cambodia	47,530 ^c	0.5	0.1 ^c	94	1	5	20	12	1,638	1.6	28.6	16.2
Cameroon	19,231	0.4	0.1	35 ^c	19 ^c	46 ^c	..	30	1,292	0.6	21.0	4.5
Canada	95,785 ^c	45.1	1.6 ^c	12	70	18	..	..	-1,764	-0.1	921.0	10.0
Central African Republic	41,250	0.1	0.0	74 ^c	5 ^c	21 ^c	20	25	1,282	0.4	51.1	8.2
Chad	6,011 ^c	0.2	0.4 ^c	82 ^c	2 ^c	16 ^c	48	17	942	0.8	114.9	9.1
Chile	32,007	16.8 ^d	3.6	89	5	6	99	47	292	0.4	141.3	18.9
China	2,282	460.0	16.4	87	7	6	..	..	866	0.1	598.1	6.4
Hong Kong, China	..	..	..	..	..	..	..	..	..	..	0.4	40.4
Colombia	26,722	5.3	0.5	43	16	41	90	32	2,622	0.5	93.6	9.0
Congo, Dem. Rep.	21,816 ^c	0.4	0.0 ^c	23 ^c	16 ^c	61 ^c	89	26	..	..	101.9	4.5
Congo, Rep.	307,283 ^c	0.0	0.0 ^c	11 ^c	27 ^c	62 ^c	..	11	416	0.2	15.4	4.5
Costa Rica	27,425	1.4 ^d	1.4	89	7	4	100	99	414	3.0	7.0	13.7
Côte d'Ivoire	5,468	0.7	0.9	67 ^c	11 ^c	22 ^c	..	..	308	0.6	19.9	6.3
Croatia	12,879	..	..	..	..	..	75	41	0	0.0	3.7	6.6
Czech Republic	5,649	2.7	4.7	2	57	41	..	..	-2	0.0	12.2	15.8
Denmark	2,460 ^c	1.2	9.2 ^c	43	27	30	..	..	0	0.0	13.7	32.3
Dominican Republic	2,467	3.0	14.9	89	6	5	88	55	264	1.6	12.2	25.2
Ecuador	26,305	5.6	1.8	90	3	7	81	10	1,890	1.6	119.3	43.1
Egypt, Arab Rep.	966 ^c	55.1	94.5 ^c	86 ^c	8 ^c	6 ^c	95	74	0	0.0	7.9	0.8
El Salvador	3,197	1.0 ^d	5.3	89	4	7	82	24	38	3.3	0.1	0.5
Eritrea	2,332 ^c	..	.. ^c	..	..	..	..	..	0	0.0	5.0	5.0
Estonia	12,071 ^c	3.3	18.8 ^c	3	92	5	..	..	-196	-1.0	5.1	12.1
Ethiopia	1,841	2.2	2.0	86 ^c	3 ^c	11 ^c	..	..	624	0.5	55.2	5.5
Finland	21,985 ^c	2.2	1.9 ^c	3	85	12	..	..	166	0.1	18.2	6.0
France	3,029 ^c	37.7	21.3 ^c	15	69	16	100	100	-1,608	-1.1	58.8	10.7
Georgia	8,291 ^c	4.0	8.9 ^c	42	37	21	..	..	0	0.0	1.9	2.7
Germany	2,084 ^c	46.3	27.1 ^c	20	70	11	..	..	0	0.0	94.2	27.0
Ghana	2,958 ^c	0.3 ^d	0.6 ^c	52 ^c	13 ^c	35 ^c	88	52	1,172	1.3	11.0	4.8
Greece	5,289 ^c	5.0	9.1 ^c	63	29	8	..	..	-1,408	-2.3	3.1	2.4
Guatemala	11,028	0.7 ^d	0.6	74	17	9	97	48	824	2.0	18.2	16.8
Guinea	32,661	0.7	0.3	87 ^c	3 ^c	10 ^c	55	44	748	1.1	1.6	0.7
Haiti	1,468	0.0	0.4	68	8	24	38	39	8	3.4	0.1	0.4
Honduras	9,259 ^c	1.5	2.7 ^c	91	5	4	91	66	1,022	2.3	11.1	9.9
Hungary	11,817 ^c	6.8	5.7 ^c	36	55	9	..	..	-88	-0.5	6.3	6.8
India	2,167 ^c	380.0 ^d	18.2 ^c	93	4	3	..	82	-72	0.0	142.9	4.8
Indonesia	12,625	16.6	0.7	76	11	13	87	57	10,844	1.0	192.3	10.6
Iran, Islamic Rep.	1,339 ^c	70.0 ^d	85.8 ^c	92	2	6	98	82	284	1.7	83.0	5.1
Ireland	13,657 ^c	0.8 ^d	1.6 ^c	10	74	16	..	..	-140	-2.7	0.6	0.9
Israel	377 ^c	1.9	84.1 ^c	79 ^c	5 ^c	16 ^c	100	95	0	0.0	3.1	15.0
Italy	2,903 ^c	56.2	33.7 ^c	59	27	14	..	..	-58	-0.1	21.5	7.3
Jamaica	3,250	0.3 ^d	3.9	86	7	7	..	..	158	7.2	0.0	0.0
Japan	4,338	90.8	16.6	50	33	17	..	..	132	0.1	25.5	6.8
Jordan	198 ^c	0.5 ^d	51.1 ^c	75	3	22	..	..	12	2.5	3.0	3.4
Kazakhstan	8,696 ^c	37.9	27.6 ^c	79	17	4	..	..	-1,928	-1.9	73.4	2.7
Kenya	1,056 ^c	2.1	6.8 ^c	76 ^c	4 ^c	20 ^c	..	..	34	0.3	35.0	6.1
Korea, Rep.	1,438	27.6	41.7	46	35	19	93	77	130	0.2	6.8	6.9
Kuwait	11	0.5	2,700.0	60	2	37	100	100	0	0.0	0.3	1.7
Kyrgyz Republic	2,509	11.0	94.9	95	3	2	..	..	0	0.0	6.9	3.6
Lao PDR	55,679	1.0	0.4	82	10	8	..	..	..	..	0.0	0.0
Latvia	13,793 ^c	0.7	2.1 ^c	14	44	42	92	..	-250	-0.9	7.8	12.6
Lebanon	941 ^c	1.3 ^{c,d}	33.1 ^c	68	4	28	..	..	52	7.8	0.0	0.0
Lesotho	2,597	0.1	1.0	56 ^c	22 ^c	22 ^c	64	60	0	0.0	0.1	0.3
Lithuania	6,531 ^c	4.4	18.2 ^c	3	90	7	..	..	-112	-0.6	6.5	10.0
Macedonia, FYR	..	..	..	..	..	..	..	..	2	0.0	1.8	7.1
Madagascar	23,819	16.3	4.8	99 ^c	0 ^c	1 ^c	..	..	1,300	0.8	11.2	1.9
Malawi	1,814 ^c	0.9	4.8 ^c	86 ^c	3 ^c	10 ^c	97	52	546	1.6	10.6	11.3
Malaysia	21,046	9.4 ^d	2.1	47	30	23	100	86	4,002	2.4	14.8	4.5

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

ENVIRONMENT

Economy	Freshwater resources Cu. meters per capita 1996	Annual freshwater withdrawals					Access to safe water % of population with access 1995		Annual deforestation 1990-95		Nationally protected areas 1996	
		Billion cu. m ^a	% of total resources ^a	% for agriculture ^b	% for industry ^b	% for domestic use ^b	Urban	Rural	Square kilometers	Avg. annual % change	Thousand square km	% of total land area
Mali	9,718 ^c	1.4	1.4 ^c	97 ^c	1 ^e	2 ^c	56	20	1,138	1.0	45.3	3.7
Mauritania	4,632 ^c	1.6 ^d	14.3 ^c	92	2	6	87	41	0	0.0	17.5	1.7
Mexico	3,788	77.6 ^d	21.7	86	8	6	..	..	5,080	0.9	71.0	3.7
Moldova	397 ^c	3.7	216.4 ^c	23	70	7	98	18	0	0.0	0.4	1.2
Mongolia	9,677	0.6	2.2	62	27	11	100	68	0	0.0	161.3	10.3
Morocco	1,088	10.9	36.5	92 ^c	3 ^e	5 ^e	97	20	118	0.3	3.2	0.7
Mozambique	12,989 ^c	0.6	0.3 ^c	89	2 ^e	9 ^e	..	40	1,162	0.7	47.8	6.1
Myanmar	24,651	4.0	0.4	90	3	7	78	50	3,874	1.4	1.7	0.3
Namibia	28,042 ^c	0.3	0.5 ^c	68 ^c	3 ^e	29 ^e	..	..	420	0.3	106.2	12.9
Nepal	7,616	2.7	1.6	95	1	4	61	59	548	1.1	11.1	7.8
Netherlands	5,767 ^c	7.8	8.7 ^c	34	61	5	..	..	0	0.0	2.4	7.1
New Zealand	532	2.0	100.0	44	10	46	..	..	-434	-0.6	63.3	23.6
Nicaragua	37,420	0.9 ^d	0.5	54	21	25	93	28	1,508	2.5	9.0	7.4
Niger	3,317 ^c	0.5	1.5 ^c	82 ^c	2 ^e	16 ^e	70	44	0	0.0	96.9	7.6
Nigeria	2,375 ^c	3.6	1.3 ^c	54 ^c	15 ^e	31 ^e	80	39	1,214	0.9	30.2	3.3
Norway	89,008 ^c	2.0	0.5 ^c	8	72	20	100	100	-180	-0.2	93.7	30.5
Pakistan	3,256 ^c	155.6 ^d	37.2 ^c	97	2	2	85	56	550	2.9	37.2	4.8
Panama	52,961	1.3	0.9	77	11	12	99	73	636	2.1	14.2	19.1
Papua New Guinea	177,963	0.1	0.0	49	22	29	..	..	1,332	0.4	0.1	0.0
Paraguay	61,750 ^c	0.4	0.1 ^c	78	7	15	70	6	3,266	2.6	14.0	3.5
Peru	1,641	6.1	15.3	72	9	19	91	31	2,168	0.3	34.6	2.7
Philippines	4,393	29.5 ^d	9.1	61	21	18	91	81	2,624	3.5	14.5	4.9
Poland	1,454 ^c	12.3	21.9 ^c	11	76	13	..	..	-120	-0.1	29.1	9.6
Portugal	6,998 ^c	7.3	10.5 ^c	48	37	15	..	..	-240	-0.9	5.9	6.4
Romania	9,222 ^c	26.0	12.5 ^c	59	33	8	..	..	12	0.0	10.7	4.6
Russian Federation	30,168 ^c	117.0	2.6 ^c	23	60	17	..	..	0	0.0	516.7	3.1
Rwanda	798	0.8	12.2	94 ^c	2 ^e	5 ^e	79	44	4	0.2	3.6	14.6
Saudi Arabia	120	17.0 ^d	709.2	90	1	9	..	..	18	0.8	49.6	2.3
Senegal	4,482 ^c	1.4	3.5 ^c	92 ^c	3 ^e	5 ^e	90	44	496	0.7	21.8	11.3
Sierra Leone	33,698	0.4	0.2	89 ^c	4 ^e	7 ^e	58	21	426	3.0	0.8	1.1
Singapore	193	0.2 ^d	31.7	4	51	45	..	..	0	0.0	0.0	0.0
Slovak Republic	5,720	1.8	5.8	..	..	..	..	..	-24	-0.1	10.5	21.8
Slovenia	..	..	..	..	..	..	..	..	0	0.0	1.1	5.5
South Africa	1,231 ^c	13.3	26.6 ^c	72 ^c	11 ^e	17 ^e	90	33	150	0.2	65.8	5.4
Spain	2,398 ^c	30.8	32.6 ^c	62	26	12	..	..	0	0.0	42.2	8.4
Sri Lanka	2,329	6.3 ^d	14.6	96	2	2	88	65	202	1.1	8.6	13.3
Sweden	20,340 ^c	2.9	1.6 ^c	9	55	36	..	..	24	0.0	36.2	8.8
Switzerland	7,054 ^c	1.2	2.4 ^c	4	73	23	100	100	0	0.0	7.1	18.0
Syrian Arab Republic	859 ^c	14.4	112.6 ^c	94	2	4	96	79	52	2.2	0.0	0.0
Tajikistan	..	12.6	..	88	7	5	..	..	0	0.0	5.9	4.2
Tanzania	2,842 ^c	1.2	1.3 ^c	89 ^c	2 ^e	9 ^e	..	..	3,226	1.0	138.2	15.6
Thailand	2,954 ^c	31.9	17.8 ^c	90	6	4	94	88	3,294	2.6	70.7	13.8
Togo	2,762 ^c	0.1	0.8 ^c	25 ^c	13 ^e	62 ^e	82	41	186	1.4	4.3	7.9
Tunisia	447 ^c	3.1	74.5 ^c	89 ^c	3 ^e	9 ^e	100	76	30	0.5	0.4	0.3
Turkey	2,246 ^c	31.6	22.1 ^c	72 ^c	11 ^e	16 ^c	..	..	0	0.0	10.7	1.4
Turkmenistan	3,950 ^c	22.8	123.9 ^c	91	8	1	..	..	0	0.0	19.8	4.2
Uganda	3,248 ^c	0.2	0.3 ^c	60	8	32	60	36	592	0.9	19.1	9.6
Ukraine	4,556 ^c	34.7	15.0 ^c	30	54	16	..	..	-54	-0.1	9.0	1.6
United Kingdom	1,203	11.8	16.6	3	77	20	100	100	-128	-0.5	50.6	20.9
United States	9,259 ^c	467.3	18.9 ^c	42 ^c	45 ^e	13 ^c	..	..	-5,886	-0.3	1,226.7	13.4
Uruguay	37,966 ^c	0.7 ^d	0.5 ^c	91	3	6	99	..	4	0.0	0.5	0.3
Uzbekistan	5,476 ^c	82.2	63.4 ^c	84	12	4	..	..	-2,260	-2.7	8.2	2.0
Venezuela	57,821 ^c	4.1 ^d	0.3 ^c	46	11	43	79	79	5,034	1.1	319.8	36.3
Vietnam	4,902	28.9	7.7	78	9	13	..	..	1,352	1.4	9.9	3.0
Yemen, Rep.	255	2.9	71.5	92	..	..	74	14	0	0.0	0.0	0.0
Zambia	12,284 ^c	1.7	1.5 ^c	77 ^c	7 ^e	16 ^c	66	37	2,644	0.8	63.6	8.6
Zimbabwe	1,744 ^c	1.2	6.1 ^c	79 ^c	7 ^e	14 ^c	..	..	500	0.6	30.7	7.9
World	8,338 w			69 w	22 w	9 w	.. w	.. w	101,724 s	0.3 w	8,542.7 s	6.6 w
Low income	5,214			90	5	5	..	..	49,332	0.7	2,439.4	5.9
Excl. China & India	..			..	..	..	..	..	..	..	..	..
Middle income	14,950			67	22	11	..	..	64,086	0.3	2,809.9	4.8
Lower middle income	11,573			67	24	9	..	..	21,162	0.2	1,563.6	4.3
Upper middle income	..			68	19	13	..	..	42,924	0.5	1,246.3	5.7
Low and middle income	8,095			80	13	7	..	..	113,418	0.4	5,249.3	5.3
East Asia & Pacific	..			82	10	8	..	..	29,956	0.8	1,102.2	6.9
Europe & Central Asia	13,255			54	36	10	..	..	-5,798	-0.1	768.0	3.2
Latin America & Carib.	27,386			77	11	12	83	36	57,766	0.6	1,456.3	7.3
Middle East & N. Africa	1,045			90	4	6	..	..	800	0.9	242.0	2.2
South Asia	4,085			94	3	3	84	84	1,316	0.2	213.0	4.5
Sub-Saharan Africa	8,565			85	4	10	74	32	29,378	0.7	1,467.8	6.2
High income	..			39	46	15	..	..	-11,694	-0.2	3,293.4	10.8

a. Refers to any year from 1980 to 1997, unless otherwise noted. b. Unless otherwise noted, percentages are estimated for 1987. c. Includes river flows from other countries. d. Data refer to estimates for years before 1980 (see *World Development Indicators*, 1999). e. Data refer to years other than 1987 (see *World Development Indicators*, 1999).