

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 1994 ^e	
		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	13,542	0.2 ^c	0.4	76	18	6	..	..	0	0.0	0.3	1.2
Algeria	483	4.5	32.4	60 ^d	15 ^d	25 ^d	..	..	234	1.2	119.2	5.0
Angola	16,577	0.5	0.3	76 ^d	10 ^d	14 ^d	<i>69</i>	<i>15</i>	2,370	1.0	26.4	2.1
Argentina	19,705	27.6 ^c	4.0	73	18	9	<i>73</i>	<i>17</i>	894	0.3	43.7	1.6
Armenia	2,411	3.8	41.8	72 ^d	15 ^d	13 ^d	..	..	-84	-2.7	2.1	7.6
Australia	18,731	14.6 ^c	4.3	33	2	65	..	..	-170	0.0	940.8	12.2
Austria	6,986	2.4	4.2	9 ^d	58 ^d	33 ^d	..	..	0	0.0	20.8	24.2
Azerbaijan	1,068	15.8	195.1	74 ^d	22 ^d	4 ^d	..	..	0	0.0	1.9	2.2
Bangladesh	11,153	22.5	1.7	96	1	3	<i>42</i>	<i>80</i>	88	0.8	1.0	0.7
Belarus	3,612	3.0	8.1	19	49	32	..	..	-688	-1.0	2.7	1.2
Belgium	827	9.0	107.5	4	85	11	..	..	0	0.0	0.8	..
Benin	1,829	0.2	1.5	67 ^d	10 ^d	23 ^d	<i>41</i>	<i>53</i>	596	1.2	7.8	7.0
Bolivia	39,536	1.2	0.4	85	5	10	<i>75</i>	<i>27</i>	5,814	1.2	92.3	8.5
Brazil	32,163	36.5	0.7	59	19	22	<i>85</i>	<i>31</i>	25,544	0.5	321.9	3.8
Bulgaria	2,154	13.9	77.2	22	76	3	..	..	-6	0.0	3.7	3.3
Burkina Faso	1,640	0.4	2.2	81 ^d	0 ^d	19 ^d	..	..	320	0.7	26.6	9.7
Burundi	561	0.1	2.8	64 ^d	0 ^d	36 ^d	..	..	14	0.4	0.9	3.5
Cambodia	8,574	0.5	0.6	94	1	5	<i>20</i>	<i>12</i>	1,638	1.6	30.0	17.0
Cameroon	19,596	0.4	0.1	35 ^d	19 ^d	46 ^d	<i>71</i>	<i>24</i>	1,292	0.6	20.5	4.4
Canada	95,097	45.1	1.6	12	70	18	..	..	-1,764	-0.1	823.6	9.0
Central African Republic	42,166	0.1	0.0	74 ^d	5 ^d	21 ^d	18	18	1,282	0.4	61.1	9.8
Chad	2,269	0.2	1.2	82 ^d	2 ^d	16 ^d	<i>48</i>	<i>17</i>	942	0.8	114.9	9.1
Chile	32,458	16.8 ^c	3.6	89	5	6	..	..	292	0.4	137.3	18.3
China	2,304	460.0	16.4	87	7	6	<i>93</i>	<i>89</i>	866	0.1	580.8	6.2
Hong Kong, China	..	..	..	..	..	..	..	..	..	..	..	..
Colombia	28,571	5.3	0.5	43	16	41	<i>88</i>	<i>48</i>	2,622	0.5	93.8	9.0
Congo, Dem. Rep.	20,670	0.4	0.0	23 ^d	16 ^d	61 ^d	..	..	..	..	99.2	4.4
Congo, Rep.	345,619	0.0	0.0	11 ^d	27 ^d	62 ^d	..	..	416	0.2	11.8	3.4
Costa Rica	27,600	1.4 ^c	1.4	89	7	4	..	..	414	3.0	6.5	12.5
Côte d'Ivoire	5,346	0.7	0.9	67 ^d	11 ^d	22 ^d	<i>59</i>	<i>81</i>	308	0.6	19.9	6.3
Croatia	12,870	..	..	..	..	..	98	80	0	0.0	3.9	6.9
Czech Republic	5,642	2.7	4.7	2 ^d	57 ^d	41 ^d	..	..	-2	0.0	10.7	13.8
Denmark	2,090	1.2	10.9	43	27	30	<i>100</i>	<i>100</i>	0	0.0	13.9	32.7
Dominican Republic	2,511	3.0	14.9	89	6	5	<i>74</i>	<i>67</i>	264	1.6	10.5	21.7
Ecuador	26,842	5.6	1.8	90	3	7	<i>82</i>	<i>55</i>	1,890	1.6	111.1	40.1
Egypt, Arab Rep.	47	55.1	1,967.9	85 ^d	9 ^d	6 ^d	<i>82</i>	<i>50</i>	0	0.0	7.9	0.8
El Salvador	3,270	1.0 ^c	5.3	89	4	7	<i>78</i>	<i>37</i>	38	3.3	0.1	0.2
Estonia	8,663	3.3	26.0	3 ^d	92 ^d	5 ^d	..	..	-196	-1.0	4.1	10.4
Ethiopia	1,889	2.2	2.0	86 ^d	3 ^d	11 ^d	<i>90</i>	<i>20</i>	624	0.5	60.2	6.0
Finland	21,463	2.2	2.0	3	85	12	<i>100</i>	<i>100</i>	166	0.1	27.4	9.0
France	3,084	37.7	21.0	15	69	16	100	100	-1,608	-1.1	56.0	10.2
Gabon	145,778	0.1	0.0	6 ^d	22 ^d	72 ^d	<i>80</i>	<i>30</i>	910	0.5	10.5	4.1
Georgia	10,737	4.0	6.9	42 ^d	37 ^d	21 ^d	..	..	0	0.0	1.9	2.7
Germany	1,172	46.3	48.2	20 ^d	70 ^d	11 ^d	..	..	0	0.0	91.9	26.3
Ghana	1,729	0.3 ^c	1.0	52 ^d	13 ^d	35 ^d	<i>70</i>	<i>49</i>	1,172	1.3	11.0	4.9
Greece	4,310	5.0	11.2	63	29	8	..	..	-1,408	-2.3	2.2	1.7
Guatemala	10,615	0.7 ^c	0.6	74	17	9	91	43	824	2.1	13.3	7.7
Guinea	33,436	0.7	0.3	87 ^d	3 ^d	10 ^d	<i>61</i>	<i>62</i>	748	1.1	1.6	0.7
Guinea-Bissau	14,628	0.0	0.1	36 ^d	4 ^d	60 ^d	18	27	104	0.4	..	..
Haiti	1,499	0.0	0.4	68	8	24	<i>37</i>	<i>23</i>	8	3.4	0.1	0.4
Honduras	9,084	1.5	2.7	91	5	4	<i>81</i>	<i>53</i>	1,022	2.3	8.6	7.7
Hungary	589	6.8	113.5	36	55	9	..	..	-88	-0.5	5.7	6.2
India	1,957	380.0 ^c	20.5	93	4	3	<i>85</i>	<i>79</i>	-72	0.0	143.4	4.8
Indonesia	12,839	16.6	0.7	76	11	13	<i>78</i>	<i>54</i>	10,844	1.0	185.6	10.2
Ireland	12,962	0.8 ^c	1.7	10	74	16	..	..	-140	-2.7	0.5	0.7
Israel	299	1.9	108.8	79 ^d	5 ^d	16 ^d	..	..	0	0.0	3.1	14.9
Italy	2,778	56.2	35.3	59	27	14	..	..	-58	-0.1	22.8	7.7
Jamaica	3,259	0.3 ^c	3.9	86	7	7	<i>92</i>	<i>48</i>	158	7.2	0.0	0.2
Japan	4,350	90.8	16.6	50	33	17	..	..	132	0.1	27.6	7.3
Jordan	158	0.5 ^c	66.2	75 ^d	3 ^d	22 ^d	..	..	12	2.5	2.9	3.3
Kazakhstan	4,579	37.9	50.3	79 ^d	17 ^d	4 ^d	..	..	-1,928	-1.9	9.9	0.3
Kenya	738	2.1	10.1	76 ^d	4 ^d	20 ^d	<i>67</i>	<i>49</i>	34	0.3	35.0	6.2
Korea, Rep.	1,451	27.6	41.8	46	35	19	..	..	130	0.2	6.9	7.0
Kyrgyz Republic	10,315	11.0	23.4	95 ^d	3 ^d	2 ^d	..	..	0	0.0	2.8	1.5
Lao PDR	9,840	1.0	2.1	82	10	8	<i>40</i>	<i>39</i>	..	..	24.4	10.6
Latvia	6,707	0.7	4.2	14 ^d	44 ^d	42 ^d	..	..	-250	-0.9	7.8	12.5
Lebanon	1,030	1.3 ^{c,e}	30.7	68 ^d	4 ^d	28 ^d	..	..	52	7.8	0.0	0.4
Lesotho	2,571	0.1	1.0	56 ^d	22 ^d	22 ^d	<i>14</i>	<i>64</i>	0	0.0	0.1	0.2
Lithuania	4,206	4.4	28.2	3	90	7	..	..	-112	-0.6	6.3	9.8
Macedonia, FYR	..	..	..	..	..	..	..	..	2	0.0	2.2	8.5
Madagascar	24,590	16.3	4.8	99 ^d	0 ^d	1 ^d	<i>83</i>	<i>10</i>	1,300	0.8	11.2	1.9
Malawi	1,747	0.9	5.1	86 ^d	3 ^d	10 ^d	<i>52</i>	<i>44</i>	546	1.6	10.6	11.3
Malaysia	22,174	9.4 ^c	2.1	47	30	23	100	74	4,002	2.4	14.8	4.5
Mali	6,001	1.4	2.3	97 ^d	1 ^d	2 ^d	<i>36</i>	<i>38</i>	1,138	1.0	40.1	3.3
Mauritania	171	1.6 ^c	407.5	92 ^d	2 ^d	6 ^d	..	..	0	0.0	17.5	1.7

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 1994 ^e	
		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
Mauritius	1,940	0.4 ^c	16.4	77 ^d	7 ^d	16 ^d	95	100	0	0.0	0.0	2.0
Mexico	3,836	77.6 ^c	21.7	86	8	6	91	62	5,080	0.9	98.5	5.1
Moldova	231	3.7	370.0	23	70	7	..	..	0	0.0	0.1	0.2
Mongolia	9,776	0.6	2.2	62	27	11	..	..	0	0.0	61.7	3.9
Morocco	1,110	10.9	36.2	92 ^d	3 ^d	5 ^d	98	14	118	0.3	3.7	0.8
Mozambique	5,547	0.6	0.6	89	2 ^d	9 ^d	17	40	1,162	0.7	0.0	0.0
Namibia	3,913	0.3	4.0	68 ^d	3 ^d	29 ^d	..	..	420	0.3	102.2	12.4
Nepal	7,714	2.7	1.6	95	1	4	64	49	548	1.1	11.1	8.1
Netherlands	644	7.8	78.1	34	61	5	100	100	0	0.0	4.3	11.5
New Zealand	89,959	2.0	0.6	44	10	46	..	..	-434	-0.6	60.7	22.9
Nicaragua	38,862	0.9 ^c	0.5	54	21	25	81	27	1,508	2.5	9.0	7.4
Niger	375	0.5	14.3	82 ^d	2 ^d	16 ^d	46	55	0	0.0	84.2	6.6
Nigeria	1,929	3.6	1.6	54 ^d	15 ^d	31 ^d	63	26	1,214	0.9	29.7	3.3
Norway	87,651	2.0	0.5	8	72	20	..	..	-180	-0.2	55.4	18.0
Oman	456	1.2	123.2	93 ^d	2 ^d	5 ^d	..	..	0	0.0	9.9	17.6
Pakistan	1,858	155.6 ^c	62.7	96 ^d	2 ^d	2 ^d	77	52	550	2.9	37.2	4.8
Panama	53,852	1.3	0.9	77	11	12	..	..	636	2.1	13.3	17.8
Papua New Guinea	181,993	0.1	0.0	49	22	29	84	17	1,332	0.4	0.8	0.2
Paraguay	18,971	0.4	0.5	78	7	15	..	17	3,266	2.6	15.0	3.7
Peru	1,647	6.1	15.3	72	9	19	74	24	2,168	0.3	41.8	3.3
Philippines	4,492	29.5 ^c	9.1	61	21	18	..	..	2,624	3.5	6.1	2.0
Poland	1,279	12.3	24.9	11	76	13	..	..	-120	-0.1	30.7	10.1
Portugal	3,827	7.3	19.2	48	37	15	..	..	-240	-0.9	5.8	6.3
Romania	1,637	26.0	70.3	59	33	8	..	..	12	0.0	10.7	4.7
Russian Federation	29,191	117.0	2.7	23 ^d	60 ^d	17 ^d	..	..	0	0.0	705.4	3.9
Rwanda	937	0.8	12.2	94 ^d	2 ^d	5 ^d	..	..	4	0.2	3.3	13.3
Saudi Arabia	124	17.0 ^c	709.2	90 ^d	1 ^d	9 ^d	..	..	18	0.8	62.0	2.9
Senegal	3,093	1.4	5.2	92 ^d	3 ^d	5 ^d	82	28	496	0.7	21.8	11.3
Sierra Leone	34,557	0.4	0.2	89 ^d	4 ^d	7 ^d	58	21	426	3.0	0.8	1.1
Singapore	197	0.2 ^c	31.7	4	51	45	100	..	0	0.0	0.0	4.9
Slovak Republic	5,765	1.8	5.8	..	..	..	..	..	-24	-0.1	10.2	21.1
Slovenia	..	..	..	..	..	..	..	..	0	0.0	1.1	5.4
South Africa	1,190	13.3	29.7	72 ^d	11 ^d	17 ^d	..	..	150	0.2	69.7	5.7
Spain	2,809	30.8	27.9	62	26	12	..	..	0	0.0	42.5	8.5
Sri Lanka	2,361	6.3 ^c	14.6	96	2	2	..	..	202	1.1	8.0	12.3
Sweden	19,903	2.9	1.7	9	55	36	..	..	24	0.0	29.8	7.3
Switzerland	6,008	1.2	2.8	4	73	23	100	100	0	0.0	7.3	18.5
Syrian Arab Republic	483	14.4	205.9	94 ^d	2 ^d	4 ^d	92	78	52	2.2	..	..
Tajikistan	11,186	12.6	19.0	88 ^d	7 ^d	5 ^d	..	..	0	0.0	0.9	0.6
Tanzania	2,623	1.2	1.5	89 ^d	2 ^d	9 ^d	65	45	3,226	1.0	139.4	15.7
Thailand	1,833	31.9	29.0	90	6	4	89	72	3,294	2.6	70.2	13.7
Togo	2,719	0.1	0.8	25 ^d	13 ^d	62 ^d	..	..	186	1.4	6.5	11.9
Trinidad and Tobago	3,932	0.2 ^c	2.9	35	38	27	83	80	26	1.5	0.2	3.1
Tunisia	385	3.1	87.2	89 ^d	3 ^d	9 ^d	..	..	30	0.5	0.4	0.3
Turkey	3,126	31.6	16.1	72 ^d	11 ^d	16 ^d	98	85	0	0.0	10.7	1.1
Turkmenistan	217	22.8	2,280.0	91	8	1	..	..	0	0.0	11.1	2.4
Uganda	1,976	0.2	0.5	60	8	32	47	32	592	0.9	19.1	9.6
Ukraine	1,047	34.7	65.3	30	54	16	..	..	-54	-0.1	4.9	0.9
United Arab Emirates	59	2.1	1,406.7	92 ^d	1 ^d	7 ^d	98	98	0	0.0	..	..
United Kingdom	1,208	11.8	16.6	3	77	20	100	100	-128	-0.5	51.1	21.2
United States	9,270	467.3	19.0	42 ^d	45 ^d	13 ^d	..	..	-5,886	-0.3	1,302.1	11.4
Uruguay	18,420	0.7 ^c	1.1	91	3	6	..	..	4	0.0	0.3	0.2
Uzbekistan	702	82.2	504.3	84 ^d	12 ^d	4 ^d	..	..	-2,260	-2.7	2.4	0.6
Venezuela	38,367	4.1 ^c	0.5	46	11	43	80	75	5,034	1.1	263.2	29.8
Vietnam	4,990	28.9	7.7	78	9	13	53	32	1,352	1.4	13.3	4.1
Yemen, Rep.	260	2.9	71.5	92 ^d	1 ^d	7 ^d	88	17	0	0.0	..	..
Zambia	8,703	1.7	2.1	77 ^d	7 ^d	16 ^d	64	27	2,644	0.8	63.6	8.6
Zimbabwe	1,254	1.2	8.7	79 ^d	7 ^d	14 ^d	99	65	500	0.6	30.7	7.9
World	7,342 w	..	..	68 w	22 w	10 w	.. w	.. w	101,724 s	0.3 w	8,603.2 s	6.7 w
Low income	5,096	..	..	92	4	3	79	67	37,622	0.7	1,421.1	4.9
Middle income	8,241	..	..	73	18	9	..	80	75,666	0.4	3,571.0	5.2
Lower middle income	6,401	..	..	75	17	8	..	81	33,358	0.2	2,354.1	5.2
Upper middle income	15,656	..	..	66	18	16	..	..	42,308	0.5	1,216.9	5.3
Low & middle income	6,961	..	..	80	13	7	..	..	113,288	0.4	4,992.1	5.1
East Asia & Pacific	5,072	..	..	84	8	7	89	82	29,826	0.8	966.3	6.2
Europe & Central Asia	11,410	..	..	52	37	11	..	..	-5,798	-0.1	856.7	3.6
Latin America & Carib.	22,011	..	..	77	11	12	..	..	57,766	0.6	1,303.4	6.5
Middle East & N. Africa	854	..	..	84	8	8	..	..	800	0.9	290.8	3.0
South Asia	3,017	..	..	95	3	2	83	74	1,316	0.2	212.4	4.4
Sub-Saharan Africa	7,821	..	..	85	4	10	..	..	29,378	0.7	1,362.5	5.8
High income	9,378	..	..	40	45	15	..	..	-11,564	-0.2	3,611.2	11.9

a. Data refer to any year from 1980 to 1996, unless otherwise noted. b. Unless otherwise noted, sectoral withdrawal percentages are estimated for 1987. c. Data refer to estimates for years before 1980 (see World Bank 1998b). d. Data refer to years other than 1987 (see World Bank 1998b). e. Data may refer to earlier years. They are the most recent reported by the World Conservation Monitoring Center in 1994.