

Table 10. Forest and water resources

		Forest areas			Nationally protected areas, 1994 ^a			Annual freshwater withdrawal, 1995 ^b			
		Total area (thousand sq.km.)	Annual deforestation 1980-90		Thousand sq. km.	Number	As % of land area	Total (cu. km)	As % of total water resources	Per capita (cu. m)	
		1990	Thousand sq. km.	% change	Thousand sq. km.					Domestic	Other
Low-income economies		7,916 t	65.5 t	0.8 w	2,001.1 t	1,842 t	5.2 w				
Excluding China and India		6,152 t	53.3 t	0.8 w	1,276.9 t	795 t	4.9 w				
1	Mozambique	173	1.4	0.8	0.0	1	0.0	0.6	0.4 ^c	13	42
2	Ethiopia	142	0.4	0.3	60.2	23	6.0	2.2	2.0 ^c	6	45
3	Tanzania	336	4.4	1.2	139.4	31	15.8	1.2	1.3 ^c	7	28
4	Burundi	2	0.0	0.6	0.9	3	3.5	0.1	2.8	7	13
5	Malawi	35	0.5	1.4	10.6	9	11.3	0.9	5.0 ^c	7	13
6	Chad	114	0.9	0.7	114.9	9	9.1	0.2	0.4 ^c	6	29
7	Rwanda	2	0.0	0.2	3.3	2	13.3	0.8	12.2	6	18
8	Sierra Leone	19	0.1	0.6	0.8	2	1.1	0.4	0.2	7	92
9	Nepal	50	0.5	1.0	11.1	12	8.1	2.7	1.6	6	144
10	Niger	24	0.1	0.4	84.2	5	6.6	0.5	0.9 ^c	9	33
11	Burkina Faso	44	0.3	0.7	26.6	12	9.7	0.4	1.4	5	13
12	Madagascar	158	1.3	0.8	11.2	36	1.9	16.3	4.8 ^c	16	1,568
13	Bangladesh	8	0.4	4.1	1.0	8	0.7	22.5	1.0 ^c	7	213
14	Uganda	63	0.6	1.0	19.1	31	9.6	0.2	0.3 ^c	7	14
15	Vietnam	83	1.4	1.5	13.3	52	4.1	28.9	7.7	54	361
16	Guinea-Bissau	20	0.2	0.8	..	..	..	0.0	0.0 ^c	3	8
17	Haiti	0	0.0	5.1	0.1	3	0.4	0.0	0.4	2	5
18	Mali	121	1.1	0.8	40.1	11	3.3	1.4	1.4 ^c	3	159
19	Nigeria	156	1.2	0.7	29.7	19	3.3	3.6	1.3	13	28
20	Yemen, Rep.	41	0.0	0.0	0.0	0	0.0	3.4	136.0	17	318
21	Cambodia	122	1.3	1.0	30.0	20	17.0	0.5	0.1 ^c	3	61
22	Kenya	12	0.1	0.6	35.0	36	6.2	2.1	7.0 ^c	14	37
23	Mongolia	139	1.3	0.9	61.7	15	3.9	0.6	2.2	30	243
24	Togo	14	0.2	1.5	6.5	11	11.9	0.1	0.8 ^c	17	11
25	Gambia, The	1	0.0	0.8	0.2	5	2.3	0.0	0.3 ^c	2	27
26	Central African Republic	306	1.3	0.4	61.1	13	9.8	0.1	0.0	5	20
27	India	517	3.4	0.6	143.4	339	4.8	380.0	18.2 ^c	18	594
28	Lao PDR	132	1.3	0.9	..	..	..	1.0	0.4	21	239
29	Benin	49	0.7	1.3	7.8	2	7.0	0.1	0.4 ^c	7	19
30	Nicaragua	60	1.2	1.9	9.0	59	7.4	0.9	0.5	92	275
31	Ghana	96	1.4	1.4	11.0	9	4.9	0.3	0.6 ^c	12	23
32	Zambia	323	3.6	1.1	63.6	21	8.6	1.7	1.5 ^c	54	32
33	Angola	231	1.7	0.7	26.4	5	2.1	0.5	0.3	8	49
34	Georgia	28	0.2	0.7	1.9	15	2.7	4.0	6.5	156	586
35	Pakistan	19	0.8	3.5	37.2	55	4.8	153.4	32.8 ^c	21	2,032
36	Mauritania	6	0.0	0.0	17.5	4	1.7	1.6	14.0 ^c	59	436
37	Azerbaijan	10	0.1	1.3	1.9	12	2.2	15.8	56.4 ^c	90	2,158
38	Zimbabwe	89	0.6	0.7	30.7	25	7.9	1.2	6.1 ^c	19	117
39	Guinea	67	0.9	1.2	1.6	3	0.7	0.7	0.3	14	126
40	Honduras	46	1.1	2.2	8.6	43	7.7	1.5	2.1 ^c	12	282
41	Senegal	75	0.5	0.7	21.8	9	11.3	1.4	3.5 ^c	10	191
42	China	1,247	8.8	0.7	580.8	463	6.2	460.0	16.4	28	433
43	Cameroon	204	1.2	0.6	20.5	14	4.4	0.4	0.1	17	20
44	Côte d'Ivoire	109	1.2	1.0	19.9	12	6.3	0.7	0.9	15	52
45	Albania	14	0.0	0.0	0.3	11	1.2	0.2	0.9 ^c	6	88
46	Congo	199	0.3	0.2	11.8	10	3.4	0.0	0.0 ^c	12	7
47	Kyrgyz Republic	7	0.1	1.2	2.8	5	1.5	11.7	24.0	82	2,647
48	Sri Lanka	17	0.3	1.4	8.0	56	12.3	6.3	14.6	10	493
49	Armenia	3	0.2	3.9	2.1	4	7.6	3.8	45.8 ^c	149	996
Middle-income economies		20,913 t	114.4 t	0.5 w	2,994.3 t	2,662 t	5.0 w				
Lower-middle-income		13,525 t	65.6 t	0.5 w	2,199.7 t	1,664 t	5.6 w				
50	Lesotho	0	0.0	0.0	0.1	1	0.2	0.1	1.0	7	24
51	Egypt, Arab Rep.	0	0.0	0.0	7.9	12	0.8	56.4	97.1 ^c	67	889
52	Bolivia	493	6.3	1.2	92.3	25	8.5	1.2	0.4	20	181
53	Macedonia, FYR	9	0.0	0.1	2.2	16	8.5	..	..	..	..
54	Moldova	4	-0.2	-6.7	0.1	3	0.4	3.7	29.1 ^c	60	793
55	Uzbekistan	14	1.0	5.5	2.4	10	0.6	82.2	76.4 ^c	165	3,956
56	Indonesia	1,095	12.1	1.1	185.6	168	10.2	16.6	0.7	12	83
57	Philippines	78	3.2	3.4	6.1	27	2.0	29.5	9.1	123	562
58	Morocco	90	-1.2	-1.4	3.7	11	0.8	10.9	36.2	23	404
59	Syrian Arab Republic	7	-0.3	-4.3	0.0	0	0.0	3.3	9.4	30	405
60	Papua New Guinea	360	1.1	0.3	0.8	5	0.2	0.1	0.0	8	20
61	Bulgaria	37	-0.1	-0.2	3.7	46	3.3	13.9	6.8 ^c	43	1,501
62	Kazakstan	0	0.0	0.0	9.9	20	0.4	37.9	30.2	92	2,202
63	Guatemala	42	0.8	1.8	13.3	18	12.3	0.7	0.6	13	127
64	Ecuador	120	2.4	1.8	111.1	15	40.1	5.6	1.8	41	541
65	Dominican Republic	11	0.4	2.9	10.5	17	21.7	3.0	14.9	22	423
66	Romania	63	0.0	0.0	10.7	39	4.7	26.0	12.5 ^c	91	1,044
67	Jamaica	2	0.3	7.8	0.0	1	0.2	0.3	3.9	11	148
68	Jordan	1	0.0	-1.0	2.9	10	3.3	0.5	32.1	50	123
69	Algeria	41	0.3	0.8	119.2	19	5.0	4.5	30.4 ^c	35	125
70	El Salvador	1	0.0	2.3	0.1	2	0.2	1.0	5.3	17	228
71	Ukraine	92	-0.2	-0.3	4.9	19	0.8	34.7	40.0 ^c	108	565
72	Paraguay	129	4.0	2.8	15.0	20	3.8	0.4	0.1 ^c	16	93

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

		Forest areas			Nationally protected areas, 1994 ^a			Annual freshwater withdrawal, 1995 ^b				
		Total area (thousand sq.km.)	Annual deforestation 1980-90				As % of		Total (cu. km)	As % of total water resources	Per capita (cu. m)	
			Thousand sq. km.	% change	Thousand sq. km.	Number	As % of land area	Domestic			Other	
73	Tunisia	7	-0.1	-1.9	0.4	6	0.3	3.1	79.5 ^c	41	276	
74	Lithuania	20	0.0	0.0	6.3	76	9.6	4.4	19.0 ^c	83	1,107	
75	Colombia	541	3.7	0.7	93.8	80	9.0	5.3	0.5 ^c	71	103	
76	Namibia	126	0.4	0.3	102.2	12	12.4	0.2	0.3 ^c	7	103	
77	Belarus	63	-0.3	-0.4	2.7	11	1.3	3.0	5.4 ^c	94	200	
78	Russian Federation	7,681	15.5	0.2	705.4	209	4.2	117.0	2.7 ^c	134	656	
79	Latvia	28	-0.1	-0.2	7.8	45	12.5	0.7	2.2 ^c	110	152	
80	Peru	679	2.7	0.4	41.8	22	3.3	6.1	15.3 ^c	57	243	
81	Costa Rica	14	0.5	3.0	6.5	28	12.7	1.4	1.4	31	749	
82	Lebanon	1	0.0	0.6	0.0	1	0.4	0.8	15.6 ^c	30	241	
83	Thailand	127	5.2	3.5	70.2	111	13.7	31.9	17.8 ^c	24	578	
84	Panama	31	0.6	1.9	13.3	14	17.8	1.3	0.9 ^c	91	664	
85	Turkey	202	0.0	0.0	10.7	49	1.4	33.5	17.3 ^c	140	445	
86	Poland	87	-0.1	-0.1	30.7	111	10.1	12.3	21.9 ^c	42	279	
87	Estonia	19	-0.2	-1.2	4.1	38	9.7	3.3	21.2	105	1,992	
88	Slovak Republic	18	0.0	0.1	10.2	40	21.1	1.8	5.8	..	..	
89	Botswana	143	0.8	0.5	106.6	9	18.8	0.1	0.6 ^c	5	94	
90	Venezuela	457	6.0	1.2	263.2	100	29.8	4.1	0.3 ^c	164	218	
Upper-middle-income		7,387 t	48.8 t	0.6 w	794.6 t	998 t	3.9 w					
91	South Africa	45	-0.4	-0.8	69.7	238	5.7	13.3	26.6 ^c	47	348	
92	Croatia	20	0.0	0.1	3.9	30	7.0	..	..	..	..	
93	Mexico	486	6.8	1.3	98.5	68	5.2	77.6	21.7 ^c	54	845	
94	Mauritius	1	0.0	0.2	0.0	1	2.0	0.4	16.4	66	344	
95	Gabon	182	1.2	0.6	10.5	6	4.1	0.1	0.0	41	16	
96	Brazil	5,611	36.7	0.6	321.9	272	3.8	36.5	0.5 ^c	54	191	
97	Trinidad and Tobago	2	0.0	-2.1	0.2	5	3.1	0.2	2.9	40	108	
98	Czech Republic	26	0.0	0.0	10.7	34	13.8	2.7	4.7	109	157	
99	Malaysia	176	4.0	2.1	14.8	51	4.5	9.4	2.1	177	592	
100	Hungary	17	-0.1	-0.5	5.7	53	6.2	6.8	5.7 ^c	59	601	
101	Chile	88	-0.1	-0.1	137.3	66	18.3	16.8	3.6	98	1,528	
102	Oman	41	0.0	0.0	9.9	28	4.6	0.5	24.0	17	547	
103	Uruguay	7	0.0	-0.6	0.3	8	0.2	0.7	0.5 ^c	14	227	
104	Saudi Arabia	12	0.0	0.0	62.0	10	2.9	3.6	163.6	224	273	
105	Argentina	592	0.9	0.1	43.7	84	1.6	27.6	2.8 ^c	94	949	
106	Slovenia	10	0.0	0.0	1.1	10	5.4	..	..	..	..	
107	Greece	60	0.0	0.0	2.2	21	1.7	5.0	8.6 ^c	42	481	
Low-and middle-income		28,828 t	179.8 t	0.6 w	4,995.4 t	4,504 t	5.1 w					
Sub-Saharan Africa		5,322 t	40.7 t	0.7 w	1,362.5 t	673 t	5.8 w					
East Asia and Pacific		3,986 t	43.5 t	1.0 w	966.3 t	1,172 t	6.2 w					
South Asia		658 t	5.5 t	0.8 w	212.4 t	485 t	4.4 w					
Europe and Central Asia		8,630 t	16.6 t	0.2 w	860.0 t	964 t	3.6 w					
Middle East and N. Africa		446 t	-1.4 t	-0.3 w	290.8 t	170 t	3.0 w					
Latin America and Caribbean		9,786 t	74.8 t	0.7 w	1,303.4 t	1,040 t	6.5 w					
High-income economies		10,766 t	-46.4 t	-0.5 w	3,607.9 t	5,506 t	11.9 w					
108	Korea, Rep.	65	0.1	0.1	6.9	27	7.0	27.6	41.8	117	515	
109	Portugal	31	-0.1	-0.5	5.8	24	6.3	7.3	10.5 ^c	111	628	
110	Spain	256	0.0	0.0	42.5	214	8.5	30.8	27.6 ^c	94	687	
111	New Zealand	75	0.0	0.0	60.7	182	22.6	2.0	0.6	271	318	
112	Ireland	4	0.0	-1.2	0.5	11	0.7	0.8	1.6 ^c	37	196	
113 +	Israel	1	0.0	-0.3	3.1	15	14.9	1.9	84.1 ^c	65	343	
114 +	Kuwait	0	0.0	0.0	0.3	2	1.5	0.5	..	336	189	
115 +	United Arab Emirates	0	0.0	0.0	0.0	0	0.0	0.9	300.0	97	787	
116	United Kingdom	24	-0.2	-1.1	51.1	168	21.1	11.8	16.6	41	164	
117	Australia	1,456	0.0	0.0	940.8	889	12.3	14.6	4.3	607	327	
118	Italy	86	0.0	0.0	22.8	171	7.7	56.2	33.7 ^c	138	848	
119	Canada	4,533	-47.1	-1.1	823.6	627	8.9	45.1	1.6	288	1,314	
120	Finland	234	-0.1	0.0	27.4	81	9.0	2.2	1.9 ^c	53	387	
121 +	Hong Kong	0	0.0	-0.5	..	..	..	..	..	..	..	
122	Sweden	280	-0.1	0.0	29.8	197	7.2	2.9	1.6 ^c	123	218	
123	Netherlands	3	0.0	-0.3	4.3	85	12.6	7.8	8.7 ^c	26	492	
124	Belgium	6	0.0	-0.3	0.8	3	2.3	9.0	72.2 ^c	101	816	
125	France	135	-0.1	-0.1	56.0	102	10.2	37.7	19.1 ^c	106	559	
126 +	Singapore	0	0.0	2.3	0.0	1	4.9	0.2	31.7	38	46	
127	Austria	39	-0.1	-0.4	20.8	170	25.2	2.4	2.6 ^c	101	203	
128	United States	2,960	3.2	0.1	1,302.1	1,585	14.2	467.3	18.9 ^c	244	1,626	
129	Germany	107	-0.5	-0.4	91.9	497	26.3	46.3	27.1 ^c	64	518	
130	Denmark	5	0.0	0.0	13.9	114	32.8	1.2	9.2 ^c	70	163	
131	Norway	96	-1.2	-1.4	55.4	113	18.0	2.0	0.5 ^c	98	390	
132	Japan	238	0.0	0.0	27.6	80	7.3	90.8	16.6	125	610	
133	Switzerland	12	-0.1	-0.6	7.3	109	18.5	1.2	2.4 ^c	40	133	
World		39,595 t	133.4 t	0.3 w	8,603.2 t	10,010 t	6.7 w					

a. Data may refer to earlier years and are the most recent reported by the World Conservation Monitoring Centre b. Refers to any year from 1970 to 199^c

c. Total water resources include river flows from other countries