

Data Table 11.1 National and International Protection of Natural Areas, 1994

	National Protection Systems									International Protection Systems (a)					
	All Protected Areas (IUCN categories I-V)			Totally Protected Areas (IUCN categories I-III)		Partially Protected Areas (IUCN categories IV-V)		% of Protected Areas (IUCN categories I-V) at Least		Biosphere Reserves		World Heritage Sites		Wetlands of Intl. Importance	
	Area		Percent of Land	Area		Area		100,000 ha	1 million ha	Area		Area		Area	
	Number	(000 ha)		Number	(000 ha)	Number	(000 ha)	in Size	in Size	Number	(000 ha)	Number	(000 ha)	Number	(000 ha)
WORLD	9,793	959,568	7.1	3,819	510,120	5,974	449,449	11.9	1.6	327	217,710	119	113,400	652	43,267
AFRICA	727	149,541	4.9	301	91,639	426	57,902	26.1	4.7	44	23,198	31	28,654	54	4,400
Algeria	19	11,919	5.0	12	11,801	7	118	10.5	10.5	2	7,276	1	300	2	5
Angola	5	2,641	2.1	1	790	4	1,851	60.0	0.0	0	0	0	0	0	0
Benin	2	778	6.9	2	778	0	0	100.0	0.0	1	880	0	0	0	0
Botswana	9	10,663	18.3	5	9,731	4	932	88.9	33.3	0	0	0	0	0	0
Burkina Faso	12	2,662	9.7	3	489	9	2,173	41.7	8.3	1	19	0	0	3	299
Burundi	3	89	3.2	0	0	3	89	0.0	0.0	0	0	0	0	0	0
Cameroon	14	2,050	4.3	7	1,032	7	1,019	57.1	0.0	3	850	1	526	0	0
Central African Rep	13	6,106	9.8	5	3,188	8	2,918	92.3	23.1	2	1,640	1	1,740	0	0
Chad	9	11,494	9.0	2	414	7	11,080	100.0	22.2	0	0	0	0	1	195
Congo	10	1,177	3.4	1	127	9	1,051	30.0	0.0	2	172	0	0	0	0
Cote d'Ivoire	12	1,993	6.2	10	1,891	2	102	33.3	8.3	2	1,480	3	1,485	0	0
Egypt	12	793	0.8	4	99	8	695	8.3	0.0	2	2,577	0	0	2	106
Equatorial Guinea	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0
Eritrea	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0
Ethiopia	23	6,023	5.5	12	3,040	11	2,982	69.6	0.0	0	0	1	22	0	0
Gabon	6	1,045	3.9	1	15	5	1,030	33.3	0.0	1	15	0	0	3	1,080
Gambia, The	5	23	2.0	3	18	2	5	0.0	0.0	0	0	0	0	0	0
Ghana	9	1,104	4.6	7	1,097	2	7	33.3	0.0	1	8	0	0	6	178
Guinea	3	164	0.7	3	164	0	0	33.3	0.0	2	133	1	13	6	225
Guinea-Bissau	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	1	39
Kenya	36	3,504	6.0	32	3,451	4	52	19.4	2.8	5	1,335	0	0	1	19
Lesotho	1	7	0.2	0	0	1	7	0.0	0.0	0	0	0	0	0	0
Liberia	1	129	1.3	1	129	0	0	100.0	0.0	0	0	0	0	0	0
Libya	6	173	0.1	3	51	3	122	0.0	0.0	0	0	0	0	0	0
Madagascar	36	1,115	1.9	16	740	20	375	2.8	0.0	1	140	1	152	0	0
Malawi	9	1,059	8.9	5	696	4	362	33.3	0.0	0	0	1	9	0	0
Mali	11	4,012	3.2	1	350	10	3,662	54.5	18.2	1	771	1	400	3	162
Mauritania	4	1,746	1.7	3	1,496	1	250	75.0	25.0	0	0	1	1,200	1	1,173
Mauritius	1	4	1.8	0	0	1	4	0.0	0.0	1	4	0	0	0	0
Morocco	11	369	0.8	6	62	5	307	9.1	0.0	0	0	0	0	4	11
Mozambique	1	2	0.0	0	0	1	2	0.0	0.0	0	0	0	0	0	0
Namibia	12	10,218	12.4	6	9,000	6	1,218	50.0	25.0	0	0	0	0	0	0
Niger	5	8,416	6.6	1	220	4	8,196	60.0	20.0	0	0	1	7,736	1	220
Nigeria	19	2,971	3.2	6	2,226	13	745	47.4	0.0	1	0	0	0	0	0
Rwanda	2	327	12.4	2	327	0	0	50.0	0.0	1	15	0	0	0	0
Senegal	9	2,180	11.1	5	1,012	4	1,168	33.3	0.0	3	1,094	2	929	4	100
Sierra Leone	2	82	1.1	0	0	2	82	0.0	0.0	0	0	0	0	0	0
Somalia	1	180	0.3	0	0	1	180	100.0	0.0	0	0	0	0	0	0
South Africa	238	6,970	5.7	55	4,280	183	2,689	2.5	0.4	0	0	0	0	12	228
Sudan	16	9,383	3.7	9	8,514	7	869	43.8	25.0	2	1,901	0	0	0	0
Swaziland	3	40	2.3	0	0	3	40	0.0	0.0	0	0	0	0	0	0
Tanzania	31	13,936	14.7	12	4,100	19	9,836	61.3	9.7	2	2,338	4	7,381	0	0
Togo	11	647	11.4	3	357	8	290	27.3	0.0	0	0	0	0	0	0
Tunisia	6	44	0.3	6	44	0	0	0.0	0.0	4	32	1	13	1	13
Uganda	31	1,909	8.1	7	876	24	1,033	19.4	0.0	1	220	2	132	1	15
Zaire	8	9,917	4.2	8	9,917	0	0	100.0	50.0	3	298	4	5,482	0	0
Zambia	21	6,364	8.5	21	6,364	0	0	52.4	4.8	0	0	1	4	2	333
Zimbabwe	25	3,068	7.9	11	2,704	14	364	24.0	4.0	0	0	2	1,095	0	0
EUROPE (b)	2,923	223,905	8.9	565	157,432	2,358	66,473	7.2	0.5	127	88,767	18	838	411	6,914
Albania	11	34	1.2	6	10	5	24	0.0	0.0	0	0	0	0	0	0
Austria	170	2,081	24.8	1	76	169	2,005	0.6	0.0	4	28	0	0	7	103
Belarus, Rep	11	265	1.3	2	144	9	120	0.0	0.0	2	253	1	88	0	0
Belgium	3	77	2.5	0	0	3	77	0.0	0.0	0	0	0	0	6	8
Bosnia and Herzegovina	5	25	0.5	1	17	4	8	0.0	0.0	0	0	0	0	0	0
Bulgaria	46	370	3.3	31	288	15	82	2.2	0.0	17	25	2	41	4	2
Croatia, Rep	30	392	6.9	11	74	19	318	3.3	0.0	1	150	1	19	4	80
Czech Rep	34	1,067	13.5	6	88	28	979	2.9	0.0	5	363	0	0	9	28
Denmark (b)	114	99,618	44.9	10	98,278	104	1,340	3.5	1.8	1	70,000	0	0	38	1,833
Estonia, Rep	38	412	9.1	8	228	30	184	2.6	0.0	1	1,560	0	0	1	49
Finland	81	2,744	8.1	36	560	45	2,184	11.1	0.0	2	770	0	0	11	101
France	102	5,598	10.2	14	332	88	5,266	20.6	0.0	6	576	2	12	8	426
Germany	497	9,193	25.8	3	37	494	9,156	5.0	0.0	12	1,159	0	0	31	673
Greece	21	221	1.7	10	78	11	143	0.0	0.0	2	9	2	0	11	107
Hungary	53	574	6.2	5	159	48	415	0.0	0.0	5	129	0	0	13	115
Iceland	20	916	8.9	8	219	12	697	10.0	0.0	0	0	0	0	2	58
Ireland	11	47	0.7	5	37	6	10	0.0	0.0	2	9	0	0	21	13
Italy	171	2,275	7.5	12	473	159	1,801	1.2	0.0	3	4	0	0	46	57
Latvia, Rep	45	775	12.0	5	41	40	734	2.2	0.0	0	0	0	0	0	0
Lithuania, Rep	76	625	9.6	9	144	67	481	0.0	0.0	0	0	0	0	4	43
Macedonia, former Yugoslav Rep	16	217	8.4	8	156	8	61	0.0	0.0	0	0	1	38	0	0
Moldova, Rep	3	12	0.4	3	12	0	0	0.0	0.0	0	0	0	0	0	0
Netherlands	85	429	11.5	38	292	47	137	1.2	0.0	1	260	0	0	15	313
Norway	113	5,536	17.1	75	5,054	38	482	9.7	0.9	1	1,555	0	0	14	16
Poland, Rep	111	3,069	9.8	16	155	95	2,914	4.5	0.0	7	164	1	5	5	7
Portugal	24	583	6.3	4	37	20	546	4.2	0.0	1	0	0	0	2	31
Romania	39	1,074	4.5	23	891	16	183	2.6	0.0	3	614	1	547	1	647
Russian Federation	209	70,536	4.1	111	47,166	98	23,371	43.5	5.7	15	9,561	0	0	3	1,168
Slovak Rep	40	1,016	20.7	7	202	33	813	2.5	0.0	4	203	0	0	7	26
Slovenia, Rep	10	108	5.3	1	85	9	23	0.0	0.0	0	0	1	0	1	1
Spain	214	4,246	8.4	10	132	204	4,114	3.7	0.0	13	860	2	55	29	131
Sweden	197	2,982	6.6	52	1,444	145	1,538	3.0	0.0	1	96	0	0	30	383
Switzerland	109	731	17.7	1	17	108	714	0.0	0.0	1	17	0	0	8	7
Ukraine	19	485	0.8	15	312	4	173	0.0	0.0	3	160	0	0	3	211
United Kingdom	168	5,109	20.9	8	32	160	5,078	8.9	0.0	13	44	2	1	73	261
Yugoslavia, Fed Rep	21	347	3.4	9	151	12	195	0.0	0.0	1	200	2	32	2	18

Data Table 11.1 continued

	National Protection Systems								International Protection Systems (a)							
	All Protected Areas (IUCN categories I-V)			Totally Protected Areas (IUCN categories I-III)		Partially Protected Areas (IUCN categories IV-V)		% of Protected Areas (IUCN categories I-V) at Least		Biosphere Reserves		World Heritage Sites		Wetlands of Intl. Importance		
	Number	Area (000 ha)	Percent of Land Area	Number	Area (000 ha)	Number	Area (000 ha)	100,000 ha in Size	1 million ha in Size	Number	Area (000 ha)	Number	Area (000 ha)	Number	Area (000 ha)	
NORTH & CENTRAL AMERICA	2,549	230,199	10.2	1,297	112,100	1,252	118,098	10.7	1.8	74	36,928	23	29,910	61	14,467	
Belize	13	323	14.1	6	160	7	163	15.4	0.0	0	0	0	0	0	0	
Canada	627	82,358	8.3	347	34,539	280	47,820	14.7	2.7	6	1,050	6	14,993	31	13,020	
Costa Rica	28	648	12.7	16	503	12	144	3.6	0.0	2	729	1	585	3	30	
Cuba	56	1,154	10.4	18	157	38	997	3.6	0.0	4	324	0	0	0	0	
Dominican Rep	17	1,048	21.5	8	564	9	484	17.6	0.0	0	0	0	0	0	0	
El Salvador	2	5	0.2	1	3	1	2	0.0	0.0	0	0	0	0	0	0	
Guatemala	18	1,333	12.2	12	1,279	6	54	22.2	0.0	2	1,236	1	58	1	48	
Haiti	3	10	0.3	2	8	1	2	0.0	0.0	0	0	0	0	0	0	
Honduras	43	862	7.7	15	469	28	393	4.7	0.0	1	500	1	500	1	13	
Jamaica	1	2	0.1	1	2	0	0	0.0	0.0	0	0	0	0	0	0	
Mexico	68	9,854	5.0	41	1,925	27	7,929	16.2	2.9	10	5,393	2	1,068	1	48	
Nicaragua	59	903	6.9	6	389	53	514	1.7	0.0	0	0	0	0	0	0	
Panama	14	1,326	17.6	13	1,324	1	2	28.6	0.0	1	597	2	804	3	111	
Trinidad and Tobago	5	16	3.0	1	2	4	14	0.0	0.0	0	0	0	0	1	6	
United States	1,585	130,209	13.3	803	70,639	782	59,570	9.5	1.8	44	27,008	10	11,902	13	1,133	
SOUTH AMERICA	706	112,834	6.3	391	67,506	315	45,328	25.1	3.4	27	50,559	11	7,115	20	7,788	
Argentina	84	4,372	1.6	65	3,024	19	1,347	14.3	0.0	5	2,410	2	655	3	82	
Bolivia	25	9,233	8.4	8	3,774	17	5,459	56.0	16.0	3	435	0	0	1	5	
Brazil	272	32,189	3.8	149	20,423	123	11,766	23.5	1.8	2	29,940	1	170	5	4,537	
Chile	66	13,725	18.1	32	8,375	34	5,350	25.8	7.6	7	2,407	0	0	1	5	
Colombia	80	9,381	8.2	41	9,036	39	345	22.5	2.5	3	2,514	1	72	0	0	
Ecuador	15	11,114	39.2	10	3,087	5	8,027	46.7	6.7	2	1,446	2	1,038	2	90	
Guyana	1	59	0.3	1	59	0	0	0.0	0.0	0	0	0	0	0	0	
Paraguay	20	1,495	3.7	13	1,368	7	127	10.0	0.0	0	0	0	0	0	0	
Peru	22	4,176	3.2	15	4,044	7	133	27.3	9.1	3	2,507	4	2,180	3	2,416	
Suriname	13	736	4.5	2	87	11	649	15.4	0.0	0	0	0	0	1	12	
Uruguay	8	32	0.2	2	15	6	17	0.0	0.0	1	200	0	0	1	435	
Venezuela	100	26,322	28.9	53	14,215	47	12,108	35.0	5.0	1	8,700	1	3,000	1	10	
ASIA	1,774	141,793	4.4	548	42,525	0	0	11.6	1.1	42	13,513	23	1,736	61	4,559	
Afghanistan, Islamic State	6	218	0.3	1	41	5	177	0.0	0.0	0	0	0	0	0	0	
Armenia	4	214	7.2	4	214	0	0	25.0	0.0	0	0	0	0	2	492	
Azerbaijan	12	191	2.2	12	191	0	0	0.0	0.0	0	0	0	0	1	133	
Bangladesh	8	97	0.7	0	0	8	97	0.0	0.0	0	0	0	0	1	60	
Bhutan	9	966	20.6	5	725	4	241	33.3	0.0	0	0	0	0	0	0	
Cambodia	20	2,998	16.6	7	871	13	2,127	55.0	0.0	0	0	0	0	0	0	
China	463	58,082	6.1	4	128	459	57,954	10.4	1.9	10	2,488	5	248	6	587	
Georgia, Rep	15	187	2.7	15	187	0	0	0.0	0.0	0	0	0	0	0	0	
India	339	14,337	4.4	66	3,874	273	10,463	6.2	0.0	0	0	5	281	6	193	
Indonesia	168	18,564	9.7	97	14,397	71	4,167	18.5	3.0	6	1,482	2	298	1	163	
Iran, Islamic Rep	67	8,299	5.0	26	2,986	41	5,314	26.9	1.5	9	2,610	0	0	18	1,358	
Iraq	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	
Israel	15	308	14.6	1	3	14	305	6.7	0.0	0	0	0	0	0	0	
Japan	80	2,758	7.3	37	1,514	43	1,245	10.0	0.0	4	116	2	28	9	83	
Jordan	10	290	3.3	1	1	9	289	10.0	0.0	0	0	0	0	1	7	
Kazakhstan, Rep	20	988	0.4	9	892	11	96	10.0	0.0	0	0	0	0	2	609	
Korea, Dem People's Rep	2	58	0.5	1	44	1	14	0.0	0.0	1	132	0	0	0	0	
Korea, Rep	27	693	7.0	5	19	22	674	3.7	0.0	1	37	0	0	0	0	
Kuwait	2	27	1.5	1	2	1	25	0.0	0.0	0	0	0	0	0	0	
Kyrgyz Rep	5	284	1.4	5	284	0	0	20.0	0.0	1	71	0	0	1	630	
Lao People's Dem Rep	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	
Lebanon	1	4	0.3	1	4	0	0	0.0	0.0	0	0	0	0	0	0	
Malaysia	51	1,484	4.5	41	903	10	581	9.8	0.0	0	0	0	0	0	0	
Mongolia	15	6,168	3.9	14	5,618	1	550	13.3	6.7	1	5,300	0	0	0	0	
Myanmar	2	173	0.3	1	161	1	13	50.0	0.0	0	0	0	0	0	0	
Nepal	12	1,109	7.9	8	1,014	4	94	33.3	0.0	0	0	2	208	1	18	
Oman	28	986	4.6	1	46	27	940	7.1	0.0	0	0	1	0	0	0	
Pakistan	55	3,721	4.7	6	882	49	2,839	20.0	0.0	1	31	0	0	9	21	
Philippines	27	606	2.0	15	267	12	339	3.7	0.0	2	1,174	1	33	0	0	
Saudi Arabia	10	6,201	2.9	2	279	8	5,922	80.0	30.0	0	0	0	0	0	0	
Singapore	1	3	4.5	0	0	1	3	0.0	0.0	0	0	0	0	0	0	
Sri Lanka	56	796	12.1	25	468	31	328	0.0	0.0	2	9	1	9	1	6	
Syrian Arab Rep	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	
Tajikistan, Rep	3	86	0.6	3	86	0	0	0.0	0.0	0	0	0	0	0	0	
Thailand	111	7,020	13.7	74	4,336	37	2,684	18.9	0.0	3	26	1	622	0	0	
Turkey	49	1,071	1.4	23	417	26	655	2.0	0.0	0	0	2	10	0	0	
Turkmenistan, Rep	8	1,112	2.3	8	1,112	0	0	25.0	0.0	1	35	0	0	1	189	
United Arab Emirates	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	
Uzbekistan, Rep	10	244	0.5	10	244	0	0	0.0	0.0	0	0	0	0	0	0	
Viet Nam	52	1,334	4.0	9	202	43	1,131	1.9	0.0	0	0	1	0	1	12	
Yemen, Rep	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	
OCEANIA	1,087	100,282	11.7	701	38,361	386	61,920	9.8	1.4	13	4,745	13	45,147	45	5,139	
Australia	889	94,077	12.2	568	32,459	321	61,618	10.3	1.6	12	4,743	11	42,471	39	4,510	
Fiji	5	19	1.0	5	19	0	0	0.0	0.0	0	0	0	0	0	0	
New Zealand	182	6,067	22.4	122	5,853	60	214	7.7	0.5	0	0	2	2,677	5	39	
Papua New Guinea	5	82	0.2	3	7	2	75	0.0	0.0	0	0	0	0	1	590	
Solomon Islands	0	0	0.0	0	0	0	0	0.0	0.0	0	0	0	0	0	0	

Source: World Conservation Monitoring Centre.

Notes: a. Areas listed often include nationally protected systems. b. Totals include Greenland. World totals exclude Antarctica. World and regional totals include countries not listed here. 0 = zero or less than half the unit of measure; X = not available. For additional information, see Sources and Technical Notes.

Data Table 11.2 Globally Threatened Species: Mammals, Birds, and Higher Plants, 1990s

	Mammals				Birds				Higher Plants						
	Total Number of Known Species			No. of Species per 10,000	Total Number of Known Species			No. of Species per 10,000	Total Number of Known Species			No. of Species per 10,000			
	All	Endemic	Threatened		All	Endemic	Threatened		All	Endemic	Threatened				
	Species	Species	Species	Square km (a)	Species	Species	Species	Square km (a)	Species (b)	Species	Species	Square km (a)			
WORLD	4,327	c	X	X	X	9,672	X	X	X	X	270,000	d	X	X	X
AFRICA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Algeria	92	2	11	15	375	1	7	62	3,100	250	145	509			
Angola	276	7	16	56	909	13	13	185	5,000	1,260	25	1,017			
Benin	188	0	7	85	423	0	1	190	2,000	X	3	899			
Botswana	164	0	8	43	550	0	5	144	X	17	4	X			
Burkina Faso	147	0	6	49	453	0	1	152	1,100	X	0	369			
Burundi	107	0	6	76	596	0	5	425	2,500	X	1	1,783			
Cameroon	297	13	21	83	874	8	14	244	8,000	156	74	2,237			
Central African Rep	209	2	9	53	662	0	2	169	3,600	100	0	921			
Chad	134	1	13	27	532	0	3	107	1,600	X	12	322			
Congo	200	2	13	62	569	0	3	177	4,350	1,200	3	1,356			
Cote d'Ivoire	230	1	16	73	694	0	11	221	3,517	62	66	1,118			
Egypt	98	7	7	21	439	0	10	96	2,066	70	84	452			
Equatorial Guinea	184	3	12	131	322	3	4	229	3,000	66	9	2,135			
Eritrea	112	0	3	49	537	0	3	236	X	X	X	X			
Ethiopia	255	31	21	54	813	28	17	172	6,500	1,000	153	1,378			
Gabon	190	2	12	64	629	0	4	213	6,500	X	78	2,197			
Gambia, The	108	0	3	104	504	0	1	484	966	X	0	928			
Ghana	222	1	12	78	725	1	7	255	3,600	43	32	1,264			
Guinea	190	1	13	66	552	0	11	192	3,000	88	35	1,043			
Guinea-Bissau	108	0	5	71	319	0	1	209	1,000	12	0	655			
Kenya	359	21	16	94	1,068	6	22	280	6,000	265	158	1,571			
Lesotho	33	0	2	23	281	0	3	195	1,576	2	7	1,093			
Liberia	193	0	13	91	581	1	13	274	2,200	103	1	1,037			
Libya	76	5	8	14	323	0	2	59	1,800	134	57	327			
Madagascar	105	77	33	27	253	103	28	66	9,000	6,500	189	2,347			
Malawi	195	0	6	86	645	0	9	285	3,600	49	61	1,592			
Mali	137	0	12	28	622	0	5	127	1,741	11	14	355			
Mauritania	61	1	10	13	541	0	3	117	1,100	X	3	239			
Mauritius	4	2	3	7	81	9	9	137	700	325	222	1,183			
Morocco	105	4	7	30	416	0	11	119	3,600	625	195	1,028			
Mozambique	179	1	9	42	678	0	13	160	5,500	219	92	1,294			
Namibia	154	3	12	36	609	1	6	142	3,128	X	23	729			
Niger	131	0	10	27	482	0	2	98	1,170	X	0	237			
Nigeria	274	6	22	62	862	2	8	194	4,614	205	9	1,036			
Rwanda	151	0	14	110	666	0	6	484	2,288	26	0	1,662			
Senegal	155	0	9	58	610	0	5	228	2,062	26	32	771			
Sierra Leone	147	0	12	77	622	0	12	325	2,090	74	12	1,091			
Somalia	171	11	12	43	649	10	8	165	3,000	500	57	761			
South Africa	247	27	25	51	790	7	16	162	23,000	X	953	4,711			
Sudan	267	11	16	43	937	0	9	151	3,132	50	8	506			
Swaziland	47	0	4	39	485	0	4	404	2,636	4	41	2,197			
Tanzania	322	14	16	72	1,005	19	30	224	10,000	1,122	406	2,229			
Togo	196	1	8	110	558	0	1	315	2,000	X	0	1,128			
Tunisia	78	1	5	31	356	0	6	142	2,150	X	24	855			
Uganda	338	6	15	119	992	3	10	350	5,000	X	6	1,762			
Zaire	415	28	23	69	1,096	22	26	181	11,000	1,100	7	1,817			
Zambia	229	3	7	55	736	1	10	177	4,600	211	9	1,105			
Zimbabwe	270	1	9	81	648	0	7	193	4,200	95	94	1,253			
EUROPE	X	X	X	X	X	X	X	X	7,777	X	X	X	X	X	X
Albania	68	0	3	48	306	0	5	216	2,965	24	50	2,093			
Austria	83	0	3	41	414	0	3	205	2,950	35	22	1,462			
Belarus, Rep	X	0	5	X	X	0	4	X	X	X	0	X			
Belgium	58	0	2	40	429	0	3	297	1,400	1	3	969			
Bosnia and Herzegovina	X	0	X	X	X	0	2	X	X	X	0	X			
Bulgaria	81	0	1	37	374	0	11	169	3,505	320	94	1,584			
Croatia, Rep	X	0	X	X	X	0	4	X	X	X	0	X			
Czech Rep	X	0	3	X	X	0	5	X	X	X	X	X			
Denmark	43	0	1	27	439	0	2	271	1,200	1	6	741			
Estonia, Rep	65	0	5	40	330	0	2	201	1,630	X	2	992			
Finland	60	0	3	19	425	0	4	133	1,040	X	11	325			
France	93	0	5	25	506	9	5	135	4,500	133	117	1,198			
Germany	76	0	2	23	503	0	5	155	2,600	6	16	799			
Greece	95	2	5	41	398	0	9	170	4,900	742	539	2,091			
Hungary	72	0	2	34	363	0	7	174	2,148	38	24	1,029			
Iceland	11	0	0	5	316	0	1	146	340	1	1	157			
Ireland	25	0	0	13	417	0	1	219	892	X	9	469			
Italy	90	3	4	29	490	0	6	159	5,463	712	273	1,776			
Latvia, Rep	83	0	4	45	325	0	5	176	1,153	X	0	623			
Lithuania, Rep	68	0	4	37	305	0	4	164	1,200	X	0	646			
Macedonia, former Yugoslav Rep	X	0	X	X	X	0	X	X	X	X	X	X			
Moldova, Rep	68	0	1	46	270	0	6	181	X	X	1	X			
Netherlands	55	0	2	36	456	0	3	295	1,170	X	1	758			
Norway	54	0	3	17	453	0	3	144	1,650	1	20	524			
Poland, Rep	79	0	4	25	421	0	5	135	2,300	3	27	738			
Portugal	63	1	6	30	441	2	7	212	2,500	150	240	1,200			
Romania	84	0	3	30	368	0	11	129	3,175	41	122	1,116			
Russian Federation	X	X	17	X	X	X	35	X	X	X	127	X			
Slovak Rep	X	X	3	X	X	X	4	X	X	X	X	X			
Slovenia, Rep	69	0	3	55	361	0	3	286	X	X	11	X			
Spain	82	4	7	22	506	5	10	139	X	X	896	X			
Sweden	60	0	3	17	463	0	4	132	4,916	941	19	1,400			
Switzerland	75	0	2	47	400	0	3	251	1,650	1	9	1,033			
Ukraine	X	1	4	X	X	0	10	X	2,927	1	16	756			
United Kingdom	50	0	1	17	590	1	2	205	1,550	16	28	539			
Yugoslavia, Fed Rep	X	X	X	X	X	X	X	X	X	X	X	X			

Data Table 11.2 continued

	Mammals				Birds				Higher Plants			
	Total Number of Known Species			No. of Species per 10,000 Square km (a)	Total Number of Known Species			No. of Species per 10,000 Square km (a)	Total Number of Known Species			No. of Species per 10,000 Square km (a)
	All Species	Endemic Species	Threatened Species		All Species	Endemic Species	Threatened Species		All Species (b)	Endemic Species	Threatened Species	
NORTH & CENTRAL AMERICA	X	X	X	X	X	X	X	X	18,849	X	X	X
Belize	125	0	5	95	533	0	1	405	2,750	150	41	2,090
Canada	193	7	6	20	578	3	5	59	2,920	147	649	299
Costa Rica	205	6	8	120	850	7	10	496	11,000	950	456	6,421
Cuba	31	12	10	14	342	22	13	155	6,004	3,229	811	2,714
Dominican Rep	20	0	3	12	254	0	10	151	5,000	1,800	73	2,965
El Salvador	135	0	2	106	420	0	0	329	2,500	17	35	1,956
Guatemala	250	3	5	114	669	1	4	304	8,000	1,171	315	3,638
Haiti	3	0	3	2	220	0	10	157	4,685	1,623	28	3,345
Honduras	173	1	5	78	684	1	4	308	5,000	148	55	2,252
Jamaica	24	3	2	23	262	25	7	254	2,746	923	371	2,662
Mexico	450	140	24	79	1,026	89	34	180	25,000	12,500	1,048	4,382
Nicaragua	200	2	6	86	750	0	3	322	7,000	40	78	3,003
Panama	218	14	11	112	929	8	9	477	9,000	1,222	561	4,618
Trinidad and Tobago	100	1	1	125	433	1	2	540	1,982	236	16	2,470
United States	428	101	22	44	768	70	46	79	16,302	4,036	1,845	1,679
SOUTH AMERICA	X	X	X	X	X	X	X	X	4,958	X	X	X
Argentina	320	47	20	50	976	19	40	153	9,000	1,100	170	1,407
Bolivia	316	20	21	67	1,274	16	27	270	16,500	4,000	49	3,500
Brazil	394	96	45	43	1,635	177	103	176	55,000	X	463	5,935
Chile	91	16	11	22	448	15	15	107	5,125	2,698	292	1,229
Colombia	359	28	24	75	1,695	62	62	355	50,000	1,500	376	10,479
Ecuador	302	23	20	100	1,559	37	50	517	18,250	4,000	375	6,052
Guyana	193	1	7	70	737	0	1	268	6,000	X	47	2,180
Paraguay	305	2	8	90	600	0	22	177	7,500	X	12	2,208
Peru	344	45	29	69	1,678	109	60	338	17,121	5,356	377	3,448
Suriname	180	0	6	72	673	0	1	268	4,700	X	48	1,870
Uruguay	81	1	4	31	365	0	9	141	2,184	40	11	845
Venezuela	305	16	12	69	1,296	42	22	292	20,000	8,000	107	4,510
ASIA	X	X	X	X	X	X	X	X	5,990	X	X	X
Afghanistan, Islamic State	123	1	8	31	460	0	12	116	3,500	800	6	882
Armenia	X	3	1	X	X	0	5	X	X	X	0	X
Azerbaijan	X	0	3	X	X	0	6	X	X	X	1	X
Bangladesh	109	0	16	45	684	0	28	284	5,000	X	24	2,074
Bhutan	99	0	18	59	543	0	12	326	5,446	75	20	3,268
Cambodia	123	0	19	47	429	0	16	165	X	X	7	X
China	394	77	42	41	1,244	67	86	129	30,000	18,000	343	3,112
Georgia, Rep	X	2	3	X	X	0	5	X	X	X	1	X
India	316	44	40	47	1,219	55	71	180	15,000	5,000	1,256	2,216
Indonesia	436	198	57	77	1,531	393	104	271	27,500	17,500	281	4,864
Iran, Islamic Rep	140	5	9	26	502	1	12	93	X	X	1	X
Iraq	81	1	4	23	381	1	11	109	X	X	2	X
Israel	92	3	7	72	500	0	8	391	X	X	38	X
Japan	132	38	17	40	583	21	31	176	4,700	2,000	704	1,418
Jordan	71	0	8	34	361	0	4	175	2,200	X	10	1,069
Kazakhstan, Rep	X	4	9	X	X	0	14	X	X	X	0	X
Korea, Dem People's Rep	X	0	7	X	390	0	16	172	2,898	107	7	1,274
Korea, Rep	49	0	6	23	372	0	19	175	2,898	224	69	1,360
Kuwait	21	0	2	17	321	0	3	265	234	X	0	193
Kyrgyz Rep	X	X	4	X	X	X	5	X	X	X	1	X
Lao People's Dem Rep	172	0	25	61	651	1	23	229	X	X	5	X
Lebanon	54	0	5	53	329	0	5	325	X	X	4	X
Malaysia	286	27	20	90	736	9	31	232	15,000	3,600	510	4,732
Mongolia	134	0	8	25	390	0	11	74	2,272	229	1	429
Myanmar	251	6	20	62	999	4	43	249	7,000	1,071	29	1,742
Nepal	167	1	23	70	824	2	23	344	6,500	315	21	2,716
Oman	56	2	5	20	430	0	5	157	1,018	73	4	371
Pakistan	151	3	10	36	671	0	22	158	4,929	372	12	1,163
Philippines	153	97	22	50	556	183	86	181	8,000	3,500	371	2,604
Saudi Arabia	77	0	6	13	413	0	10	70	1,729	X	6	294
Singapore	45	1	3	113	295	0	6	738	2,000	2	14	5,007
Sri Lanka	88	13	4	47	428	23	11	230	3,000	890	436	1,613
Syrian Arab Rep	X	X	4	X	X	X	6	X	X	X	10	X
Tajikistan, Rep	X	2	6	X	X	0	9	X	X	X	0	X
Thailand	265	7	22	72	915	3	44	249	11,000	X	382	2,999
Turkey	116	1	4	28	418	0	13	99	8,472	2,675	1,827	2,012
Turkmenistan, Rep	X	0	8	X	X	0	9	X	X	X	1	X
United Arab Emirates	25	0	2	12	360	0	4	179	X	X	0	X
Uzbekistan, Rep	X	0	7	X	X	0	11	X	X	X	5	X
Viet Nam	213	7	25	67	761	10	45	240	>7,000	1,260	350	X
Yemen, Rep	66	2	4	18	366	8	12	99	X	135	149	X
OCEANIA	X	X	X	X	X	X	X	X	5,825	X	X	X
Australia	252	198	43	28	751	353	51	84	15,000	14,074	1,597	1,672
Fiji	4	1	4	3	109	26	8	89	1,307	760	72	1,071
New Zealand	10	4	3	3	287	76	45	97	2,160	1,942	236	727
Papua New Guinea	214	57	33	60	708	80	31	200	10,000	X	95	2,821
Solomon Islands	53	19	5	37	223	44	18	157	2,780	30	43	1,959

Source: World Conservation Monitoring Centre.

Notes: a. Values are standardized using a species-area curve. b. Flowering plants only c. Includes cetaceans. d. All vascular plant species. Threatened species data are as of June 1993. X = not available. For additional information, see Sources and Technical Notes.

Data Table 11.3 Globally Threatened Species: Reptiles, Amphibians, and Fish, 1990s

	Reptiles				Amphibians				Total Number of Known	
	Total Number of Known Species			Number of Species per 10,000 Square km	Total Number of Known Species			Number of Species per 10,000 Square km	Freshwater Fish Species	
	All Species	Endemic Species	Threatened Species		All Species	Endemic Species	Threatened Species		All Species	Threatened Species
WORLD	6,900	X	X	X	4,400	X	X	X	X	X
AFRICA	X	X	X	X	X	X	X	X	X	X
Algeria	X	3	0	X	X	0	0	X	X	1
Angola	X	18	5	X	X	22	0	X	X	0
Benin	X	1	2	X	X	0	0	X	X	0
Botswana	157	2	0	41	38	0	0	10	92	0
Burkina Faso	X	3	1	X	X	0	0	X	X	0
Burundi	X	0	0	X	X	2	0	X	X	0
Cameroon	X	19	3	X	X	66	1	X	X	20
Central African Rep	X	0	1	X	X	0	0	X	X	0
Chad	X	1	1	X	X	0	0	X	X	0
Congo	X	1	2	X	X	1	0	X	X	0
Cote d'Ivoire	X	2	4	X	X	3	1	X	X	0
Egypt	83	0	4	18	6	0	0	1	70	1
Equatorial Guinea	X	3	3	X	X	2	1	X	X	0
Eritrea	X	0	0	X	X	0	0	X	X	0
Ethiopia	X	6	2	X	X	32	0	X	X	0
Gabon	X	3	3	X	X	4	0	X	X	0
Gambia, The	X	1	1	X	X	0	0	X	79	0
Ghana	X	1	4	X	X	4	0	X	X	0
Guinea	X	3	3	X	X	3	1	X	X	0
Guinea-Bissau	X	2	3	X	X	1	0	X	X	0
Kenya	187	15	3	49	88	11	0	23	X	X
Lesotho	X	2	1	X	X	1	2	X	8	1
Liberia	62	2	3	29	38	4	1	18	X	0
Libya	X	1	2	X	X	0	0	X	X	0
Madagascar	252	197	10	66	144	143	0	38	40	10
Malawi	124	6	0	55	69	3	0	31	X	0
Mali	16	2	1	3	X	1	0	X	X	0
Mauritania	X	1	3	X	X	0	0	X	X	0
Mauritius	11	8	6	19	0	0	0	0	X	0
Morocco	X	8	1	X	X	1	0	X	X	1
Mozambique	X	5	6	X	62	1	1	15	X	1
Namibia	X	26	2	X	32	1	1	7	102	5
Niger	X	0	0	X	X	0	0	X	X	0
Nigeria	> 135	7	3	0	>109	1	0	0	260	0
Rwanda	X	1	0	X	X	0	0	X	X	0
Senegal	X	1	6	X	X	1	0	X	83	0
Sierra Leone	X	1	3	X	X	2	0	X	X	0
Somalia	193	48	2	49	27	3	0	7	X	1
South Africa	299	81	36	61	95	45	16	19	94	34
Sudan	X	6	2	X	X	1	0	X	X	0
Swaziland	102	1	2	85	40	0	1	33	40	0
Tanzania	245	56	4	55	121	43	0	27	X	X
Togo	X	1	3	X	X	3	0	X	X	0
Tunisia	X	1	1	X	X	0	0	X	X	0
Uganda	149	2	0	53	50	1	0	18	291	X
Zaire	X	33	3	X	X	53	0	X	X	1
Zambia	X	2	1	X	83	1	0	20	X	0
Zimbabwe	153	2	0	46	120	3	0	36	112	0
EUROPE	X	X	X	X	X	X	X	X	X	X
Albania	31	0	2	22	13	0	0	9	39	1
Austria	14	0	0	7	20	0	0	10	60	2
Belarus, Rep	8	0	0	3	10	0	0	4	X	0
Belgium	8	0	0	6	17	0	0	12	X	1
Bosnia and Herzegovina	X	0	X	X	X	0	X	X	X	X
Bulgaria	33	0	1	15	17	0	0	8	X	1
Croatia, Rep	X	0	X	X	X	0	X	X	X	X
Czech Rep	X	0	0	X	X	0	0	X	X	2
Denmark	5	0	0	3	14	0	0	9	41	1
Estonia, Rep	5	0	0	3	11	0	0	7	30	1
Finland	5	0	0	2	5	0	0	2	66	2
France	32	0	2	9	32	3	2	9	53	3
Germany	12	0	0	4	20	0	0	6	71	4
Greece	51	3	4	22	15	0	1	6	98	17
Hungary	15	0	0	7	17	0	0	8	X	1
Iceland	0	0	0	0	0	0	0	0	7	1
Ireland	1	0	0	1	3	0	0	2	25	2
Italy	40	0	3	13	34	7	9	11	45	2
Latvia, Rep	7	0	0	4	13	0	0	7	109	1
Lithuania, Rep	7	0	0	4	13	0	0	7	X	1
Macedonia, former Yugoslav Rep	X	0	X	X	X	0	X	X	X	X
Moldova, Rep	9	0	0	6	13	0	0	9	82	2
Netherlands	7	0	0	5	16	0	0	10	X	1
Norway	5	0	0	2	5	0	0	2	X	2
Poland, Rep	9	0	0	3	18	0	0	6	X	3
Portugal	29	2	0	14	17	0	1	8	28	9
Romania	25	0	1	9	19	0	0	7	87	3
Russian Federation	X	X	3	X	X	X	0	X	X	4
Slovak Rep	X	X	0	X	X	X	0	X	X	2
Slovenia, Rep	21	0	0	17	X	0	2	X	X	0
Spain	53	9	4	15	X	0	3	X	98	13
Sweden	6	0	0	2	25	2	0	7	50	2
Switzerland	14	0	0	9	13	0	1	8	X	3
Ukraine	19	0	0	5	18	0	0	5	48	3
United Kingdom	8	0	0	3	7	0	0	2	36	2
Yugoslavia, Fed Rep	X	X	X	X	X	X	X	X	X	X

Data Table 11.3 continued

	Reptiles				Amphibians				Total Number of Known Freshwater Fish Species	
	Total Number of Known Species			Number of Species per 10,000 Square km	Total Number of Known Species			Number of Species per 10,000 Square km	Total Number of Known Freshwater Fish Species	
	All Species	Endemic Species	Threatened Species		All Species	Endemic Species	Threatened Species		All Species	Threatened Species
NORTH & CENTRAL AMERICA	X	X	X	X	X	X	X	X	X	X
Belize	107	2	5	81	32	1	0	24	63	0
Canada	41	0	0	4	41	0	0	4	177	20
Costa Rica	214	36	7	125	162	34	1	95	130	0
Cuba	102	80	8	46	41	42	0	19	28	0
Dominican Rep	105	22	8	62	35	15	1	21	16	0
El Salvador	73	4	6	57	23	0	0	18	16	0
Guatemala	231	18	9	105	99	28	0	45	220	0
Haiti	102	29	6	73	46	23	2	33	16	0
Honduras	152	12	7	68	56	16	0	25	46	0
Jamaica	36	26	10	35	21	21	4	20	6	0
Mexico	687	368	18	120	285	179	3	50	384	98
Nicaragua	161	5	7	69	59	2	0	25	50	0
Panama	226	25	7	116	164	21	0	84	101	0
Trinidad and Tobago	70	2	5	87	26	2	0	32	76	0
United States	280	71	23	29	233	146	16	24	822	174
SOUTH AMERICA	X	X	X	X	X	X	X	X	X	X
Argentina	220	64	6	34	145	45	5	23	410	1
Bolivia	208	17	4	44	112	26	0	24	389	1
Brazil	468	177	10	51	502	349	1	54	X	8
Chile	72	33	18	17	41	30	20	10	44	27
Colombia	584	106	12	122	585	208	0	123	X	3
Ecuador	374	114	12	124	402	160	0	133	706	0
Guyana	X	2	7	X	X	13	0	X	X	0
Paraguay	120	3	3	35	85	3	0	25	X	0
Peru	298	95	7	60	315	122	0	63	X	0
Suriname	151	0	5	60	95	8	0	38	300	0
Uruguay	X	1	0	X	X	4	0	X	X	0
Venezuela	259	57	10	58	199	116	0	45	X	0
ASIA	X	X	X	X	X	X	X	X	X	X
Afghanistan, Islamic State	103	4	0	26	6	1	0	2	84	0
Armenia	46	1	2	32	6	0	0	4	X	0
Azerbaijan	52	0	1	26	8	0	0	4	X	0
Bangladesh	119	1	17	49	19	0	0	8	X	0
Bhutan	19	2	1	11	24	0	0	14	X	0
Cambodia	82	1	7	32	28	0	0	11	>215	4
China	340	74	8	35	263	154	1	27	686	16
Georgia, Rep	46	0	5	24	11	0	1	6	X	0
India	389	185	21	57	197	120	3	29	X	2
Indonesia	511	298	16	90	270	109	0	48	X	65
Iran, Islamic Rep	164	26	6	30	11	5	0	2	269	2
Iraq	81	1	0	23	6	0	0	2	X	2
Israel	X	1	4	X	X	0	0	X	26	0
Japan	66	27	10	20	52	41	11	16	186	10
Jordan	X	0	0	X	X	0	0	X	26	0
Kazakhstan, Rep	37	0	0	6	10	0	0	2	X	1
Korea, Dem People's Rep	19	1	0	8	14	0	0	6	X	0
Korea, Rep	25	3	0	12	14	2	0	7	130	0
Kuwait	29	0	2	24	2	0	0	2	X	0
Kyrgyz Rep	X	X	0	X	X	X	0	X	X	1
Lao People's Dem Rep	66	1	3	23	37	1	0	13	244	3
Lebanon	X	2	1	X	X	0	0	X	X	0
Malaysia	268	68	10	85	158	57	0	50	449	4
Mongolia	21	0	0	4	8	0	0	2	70	0
Myanmar	203	38	11	51	75	10	0	19	X	1
Nepal	80	3	8	33	36	9	0	15	120	0
Oman	64	9	4	23	X	0	0	X	3	2
Pakistan	172	21	7	41	17	3	0	4	156	0
Philippines	190	153	8	62	63	55	2	21	X	21
Saudi Arabia	84	4	2	14	X	0	0	X	8	0
Singapore	X	0	1	X	X	0	0	X	73	0
Sri Lanka	144	75	9	77	39	21	0	21	65	19
Syrian Arab Rep	X	X	1	X	X	X	0	X	X	0
Tajikistan, Rep	38	0	0	16	2	0	0	1	X	0
Thailand	298	35	11	81	107	17	0	29	>600	11
Turkey	102	4	10	24	18	2	3	4	>152	18
Turkmenistan, Rep	80	2	0	22	2	0	0	1	X	1
United Arab Emirates	37	1	2	18	X	0	0	X	5	0
Uzbekistan, Rep	51	0	0	15	2	0	0	1	X	0
Viet Nam	180	39	8	57	80	27	1	25	X	2
Yemen, Rep	77	31	2	21	X	1	0	X	5	0
OCEANIA	X	X	X	X	X	X	X	X	X	X
Australia	748	596	42	83	205	188	20	23	216	54
Fiji	25	11	6	20	2	2	0	2	X	0
New Zealand	40	36	12	13	3	3	3	1	29	6
Papua New Guinea	280	77	7	79	197	115	0	56	282	49
Solomon Islands	61	10	6	43	17	9	0	12	X	0

Source: World Conservation Monitoring Centre.

Notes: a. Values are standardized using a species-area curve. Threatened species data are as of 1993.

World and regional totals include countries not listed. X = not available. For additional information, see Sources and Technical Notes.

Data Table 11.4 Marine Biodiversity

	Length of Coastline (km)	Maritime Area (000 sq. km)		Total Number of Known					Marine Habitats (000 hectares)		Marine Protected Areas		
		Shelf to 200-Meter Depth	Exclusive Economic Zone	Coastal Marine Species (a)				Mammals	Mangroves	Coral Reefs	Number	Area (hectares)	Regional Priority Sites (b) (number)
				Fish	Turtles	Mammals							
						Total	Threatened						
WORLD	X	X	X	X	7	56	15	X	X	1,306	X	73	
AFRICA	X	X	X	X	X	X	X	X	X	112	X	9	
Algeria	1,183	14	137	X	X	X	X	0	0	2	76,568	0	
Angola	1,600	67	606	X	5	3	1	110	NS	3	2,465,200	0	
Benin	121	X	27	X	X	2	1	3	X	X	X	X	
Cameroon	402	11	15	X	3	2	1	306	NS	1	160,000	0	
Cape Verde	965	X	789	108	3	X	X	X	P	X	X	X	
Congo	169	9	25	X	3	2	1	2	X	X	X	X	
Cote d'Ivoire	515	10	105	X	2	2	1	2	NS	X	X	X	
Djibouti	314	X	6	X	2	2	1	P	P	2	X	0	
Egypt	2,450	37	174	X	3	2	1	P	P	6	708,300	0	
Equatorial Guinea	296	X	283	X	2	2	1	20	P	X	X	X	
Eritrea	2,234	X	X	X	2	2	1	P	P	X	X	X	
Gabon	885	46	214	X	3	2	1	250	NS	1	200,000	0	
Gambia, The	80	X	20	X	2	2	1	66	X	3	18,440	1	
Ghana	539	21	218	X	5	2	1	2	NS	X	X	X	
Guinea	346	38	71	X	2	2	1	223	X	X	X	X	
Guinea-Bissau	274	X	151	X	5	2	1	237	X	1	0	0	
Kenya	536	14	118	X	3	2	1	53-62	P	10	79,559	1	
Liberia	579	20	230	X	4	2	1	20	NS	X	X	X	
Libya	1,770	84	338	X	1	X	1	NP	NP	X	X	X	
Madagascar	4,828	180	1,292	X	4	2	1	326	P	1	1,000	0	
Mauritania	754	44	154	X	4-5	4	2	P	X	2	1,186,000	1	
Mauritius	177	92	1,183	313	X	X	1	P	P	6	8,400	0	
Morocco	1,835	62	278	X	3	2	1	NP	NP	3	56,900	0	
Mozambique	2,470	104	562	X	5	2	1	85	P	4	1,027,000	2	
Namibia	1,489	X	X	X	1	2	0	X	X	X	X	X	
Nigeria	853	46	211	X	X	2	1	970-3,328	X	X	X	X	
Senegal	531	32	206	X	5	3	1	169	NS	6	84,186	1	
Seychelles	491	X	1,349	379	2	X	X	P	P	15	X	0	
Sierra Leone	402	26	156	X	3	2	1	100-171	NS	X	X	X	
Somalia	3,025	61	783	X	2	2	1	10	P	X	X	X	
South Africa	2,881	143	1,553	X	2	9	1	1	P	22	X	0	
Sudan	853	22	92	X	2	2	1	P	P	2	X	0	
Tanzania	1,424	41	223	X	4	2	1	134	P	7	X	3	
Togo	56	1	2	X	3	2	1	P	X	X	X	X	
Tunisia	1,143	51	86	X	1	1	X	NP	NP	2	4,480	0	
Zaire	37	1	1	X	3	2	1	53	X	1	76,850	0	
EUROPE	X	X	X	X	X	X	X	X	X	142	X	27	
Albania	418	5	12	X	X	X	X	NP	NP	X	X	X	
Belgium	64	3	3	X	X	2	0	NP	NP	1	X	1	
Bosnia and Herzegovina	20	X	X	X	X	X	X	NP	NP	X	X	X	
Bulgaria	354	12	33	X	X	1	X	NP	NP	X	X	X	
Croatia, Rep	5,790	X	X	X	X	X	X	NP	NP	6	40,882	0	
Cyprus	648	7	99	96	2	X	X	NP	NP	1	650	0	
Denmark	3,379	69	1,464	X	X	3	0	NP	NP	13	X	1	
Estonia, Rep	1,393	X	X	X	X	X	0	NP	NP	5	X	1	
Finland	1,126	98	98	X	X	3	0	NP	NP	5	X	1	
France	3,427	148	3,493	X	X	3	0	NP	NP	11	X	0	
Germany	2,389	41	50	X	X	3	0	NP	NP	11	X	4	
Greece	13,676	25	505	X	1	X	1	NP	NP	1	100,000	0	
Iceland	4,988	134	867	X	X	4	0	NP	NP	2	272	0	
Ireland	1,448	126	380	X	X	3	0	NP	NP	1	X	0	
Italy	4,996	144	552	X	X	X	1	NP	NP	10	X	0	
Latvia, Rep	531	X	X	X	X	X	X	NP	NP	1	X	0	
Lithuania, Rep	108	X	X	X	X	X	X	NP	NP	3	X	2	
Netherlands	451	85	85	X	X	3	0	NP	NP	4	X	2	
Norway	5,832	103	2,025	X	X	9	1	NP	NP	5	X	0	
Poland, Rep	491	28	29	X	X	2	0	NP	NP	1	X	0	
Portugal	1,693	39	1,774	X	X	2	1	NP	NP	13	X	7	
Romania	225	24	32	X	X	X	X	NP	NP	X	X	X	
Russian Federation	37,653	X	X	X	X	17	3	NP	NP	12	X	5	
Slovenia, Rep	32	X	X	X	X	X	X	NP	NP	2	X	0	
Spain	4,964	170	1,219	X	X	2	1	NP	NP	8	X	1	
Sweden	3,218	155	155	X	X	4	0	NP	NP	6	X	0	
Ukraine	2,782	X	X	X	X	X	X	NP	NP	3	72,013	0	
United Kingdom	12,429	492	1,785	X	X	3	0	NP	NP	9	X	2	
Yugoslavia, Fed Rep	199	X	X	X	X	X	X	NP	NP	X	X	X	
NORTH & CENTRAL AMERICA	X	X	X	X	X	X	X	X	X	385	X	8	
Antigua and Barbuda	153	X	X	108	3	X	X	1	3	2	2,500	0	
Barbados	97	0	167	270	1	X	X	P	P	1	250	0	
Belize	386	X	X	X	3	X	1	73-78	P	2	4,336	0	
Canada	90,908	2,903	2,939	X	X	15	2	NP	NP	76	18,193,255	0	
Costa Rica	1,290	16	259	X	4	X	1	40-41	P	13	X	1	
Cuba	3,735	X	363	320	3	X	1	530-626	P	16	579,634	1	
Dominica	148	X	20	105	3	X	X	P	P	2	X	0	
Dominican Rep	1,288	18	269	269	4	X	1	9-24	P	7	717,060	2	
El Salvador	307	18	92	X	4	X	X	35-45	X	X	X	X	
Guatemala	400	12	99	X	4	X	1	16	X	2	57,200	0	
Haiti	1,771	11	161	272	3	X	1	18	P	X	X	X	
Honduras	820	54	201	X	4	X	1	117-121	P	4	X	0	
Jamaica	1,022	40	298	340	3	X	1	11-20	P	4	X	0	
Mexico	9,330	442	2,851	X	6	7	3	525-1,420	P	37	X	3	
Nicaragua	910	73	160	X	2-3	X	1	60	P	X	X	X	
Panama	2,490	57	307	X	5	2	1	171-298	P	3	X	0	
Trinidad and Tobago	362	29	77	487	5	2	1	8-9	P	1	650	0	
United States (a)	19,024	1,874	9,744	X	5	17		190,284	P	183	3	0	

Data Table 11.4 continued

	Maritime Area (000 sq. km)			Total Number of Known Coastal Marine Species (a)						Marine Habitats (000 hectares)		Marine Protected Areas		
	Length of Coastline (km)	Shelf to 200-Meter Depth	Exclusive Economic Zone	Fish	Turtles	Mammals		Mangroves	Coral Reefs	Number	Area (hectares)	Regional Priority Sites (b)		
						Total	Threatened					Number	Priority Sites (b) (number)	
SOUTH AMERICA	X	X	X	X	X	X	X	X	X	41	X	10		
Argentina	4,989	796	1,165	X	X	7	0	NP	NP	4	X	0		
Brazil	7,491	769	3,168	X	5	4	1	250-1,012	P	15	1,665,552	5		
Chile	6,435	27	2,288	X	1	11	2	NP	P	X	X	X		
Colombia	2,414	68	603	X	5	2	1	358-501	P	8	192,606	1		
Ecuador	2,237	47	1,159	419	3	3	0	162-182	P	4	16,070,101	3		
Guyana	459	50	130	X	4	2	1	80-150	X	X	X	X		
Peru	2,414	83	1,027	X	2	5	1	5-6	X	2	X	1		
Suriname	386	X	101	X	5	2	1	115	X	X	X	X		
Uruguay	660	57	119	X	X	4	0	X	X	X	X	X		
Venezuela	2,800	88	364	X	3	2	1	250-674	P	8	619,561	0		
ASIA	X	X	X	X	X	X	X	X	X	292	X	12		
Azerbaijan	X	X	X	X	X	X	1	0	0	X	X	X		
Bahrain	161	5	5	133	X	3	1	X	P	X	X	X		
Bangladesh	580	55	77	X	3	4	1	410	NP	X	X	X		
Brunei	161	X	X	X	3	1	1	7	NS	4	3,780	0		
Cambodia	443	X	56	X	2	4	1	10	P	X	X	X		
China	14,500	870	1,356	X	1	4	1	20	P	41	X	0		
Georgia, Rep	310	X	X	X	X	X	X	NP	NP	X	X	X		
India	12,700	452	2,015	X	5	4	1	357	P	11	276,042	4		
Indonesia	54,716	2,777	5,409	X	5	4	1	4,251-4,254	P	30	3,739,353	2		
Iran, Islamic Rep	3,180	107	156	X	2	4	2	24	P	1	160	0		
Iraq	58	1	1	X	X	3	1	X	X	X	X	X		
Israel	273	4	23	X	1-2	2	1	X	P	3	1,073	0		
Japan	13,685	481	3,861	X	3	9	1	P	P	113	X	0		
Jordan	26	X	1	X	X	X	1	X	P	X	X	X		
Kazakhstan, Rep	2,909	X	X	X	X	X	1	NP	NP	X	X	X		
Korea, Dem People's Rep	2,495	X	130	X	X	X	X	X	X	X	X	X		
Korea, Rep	2,413	245	X	X	X	X	X	X	X	6	338,130	0		
Kuwait	499	12	12	100	1-2	3	1	X	P	X	X	X		
Lebanon	225	4	23	X	X	X	X	X	X	X	X	X		
Malaysia	4,675	374	476	X	4	4	1	630-641	P	21	X	2		
Myanmar	3,060	229	510	X	3	4	1	518	P	X	X	X		
Oman	2,092	61	562	X	4	3	1	2	P	5	33,600	0		
Pakistan	1,046	58	319	X	2	3	1	262-283	X	X	X	X		
Philippines	22,540	178	1,786	~2,00	2	4	1	232-400	2,700	19	X	1		
Qatar	563	24	24	X	1-2	X	X	P	P	X	X	X		
Saudi Arabia	2,510	78	186	X	2	3	1	20	P	2	60,200	0		
Singapore	193	0	0	292	X	3	1	1	P	1	87	0		
Sri Lanka	1,340	27	517	X	5	3	1	9	P	4	X	0		
Syrian Arab Rep	193	X	10	X	X	X	X	X	X	X	X	X		
Thailand	3,219	258	86	X	3	4	1	196-269	P	15	486,028	2		
Turkey	7,200	50	237	X	2	2	1	NP	NP	8	358,250	0		
Turkmenistan, Rep	1,768	X	X	X	X	X	1	NP	NP	X	X	X		
United Arab Emirates	1,448	59	59	X	X	3	1	3	P	X	X	X		
Uzbekistan, Rep	420	X	X	X	X	X	X	X	X	X	X	X		
Viet Nam	3,444	328	722	X	2	4	1	P	X	2	30,243	1		
Yemen, Rep	1,906	25	584	X	2	2	1	P	P	X	X	X		
OCEANIA	X	X	X	X	X	X	X	X	X	301	X	7		
Australia	25,760	2,269	4,496	X	6	11	1	1,162	P	244	X	7		
Fiji	1,129	2	1,135	407	4	X	X	39	P	X	X	X		
Kiribati	1,143	X	X	X	2	X	X	P	P	1	32,100	0		
New Zealand	15,134	243	4,833	X	X	6	2	20	P	14	X	0		
Papua New Guinea	5,152	X	2,367	665	4-5	3	1	200	P	6	229,490	0		
Solomon Islands	5,313	X	1,340	489	4	1	1	64	P	X	X	X		

Sources: World Conservation Monitoring Centre, Great Barrier Reef Marine Park Authority, The World Bank, The World Conservation Union, United Nations Office for Ocean Affairs and the Law of the Sea, Food and Agriculture Organization of the United Nations, and other sources.

Notes: a. Includes fish recorded in coastal waters, nesting turtle species, and marine species restricted to coastal habitats. b. Regional priorities as defined by The Great Barrier Reef Marine Park Authority, The World Bank and the World Conservation Union. c. Species and habitat data for Hawaii are not included in United States totals. NS = not significant; P = present; NP = not present. World and regional totals include countries not listed. 0 = zero or less than half the unit of measure. X = not available. For additional information, see Sources and Technical Notes.

Sources and Technical Notes

Data Table 11.1

National and International Protection of Natural Areas, 1994

Source: Protected Areas Data Unit of the World Conservation Monitoring Centre (WCMC), unpublished data (WCMC, Cambridge, U.K., August 1995).

All *protected areas* combine natural areas in five World Conservation Union, formerly the International Union for Conservation of Nature and Natural Resources (IUCN), management categories (areas of at least 1,000 hectares). *Totally protected areas* are maintained in a natural state and are closed to extractive uses. They encompass the following three management categories:

Category I. Scientific reserves and strict nature reserves possess outstanding, representative ecosystems. Public access is generally limited, with only scientific research and educational use permitted.

Category II. National parks and provincial parks are relatively large areas of national or international significance not materially altered by humans. Visitors may use them for recreation and study.

Category III. Natural monuments and natural landmarks contain unique geological formations, special animals or plants, or unusual habitats.

Partially protected areas are areas that may be managed for specific uses, such as recreation or tourism, or areas that provide optimum conditions for certain species or communities of wildlife. Some extractive use within these areas is allowed. They encompass two management categories:

Category IV. Managed nature reserves and wildlife sanctuaries are protected for specific purposes, such as conservation of a significant plant or animal species.

Category V. Protected landscapes and seascapes may be entirely natural or may include cultural landscapes (e.g., scenically attractive agricultural areas).

Nationally protected areas listed in Data Table 11.1 do not include locally or provincially protected sites, or privately owned areas.

Protected areas at least 100,000 hectares and 1 million hectares in size refer to all IUCN category I-V protected areas that fall within these two classifications. The totals are for single sites, and it is likely that some sites are not contiguous blocks. These data do not account for agglomerations of protected areas that together might exceed 100,000 or 1 million hectares.

International protection systems usually include sites that are listed under national protection systems. *Biosphere reserves* are representative of terrestrial and coastal environments that have been internationally recognized under the Man and the Biosphere Programme of the United Nations Educational, Scientific, and Cultural Organization. They have been selected for their value to conservation and are intended to foster the scientific knowledge, skills, and human values necessary to support sustainable development. Each reserve must contain a diverse, natural ecosystem of a specific biogeographical province, large enough to be an effective conservation unit. For further details, refer to M. Udvardy, *A Classification of the Biogeographical Provinces of the World* (IUCN, Morges, Switzerland, 1975), and to *World Resources 1986*, Chapter 6. Each reserve also must include a minimally disturbed core area for conservation and research and may be surrounded by buffer zones where traditional land uses, experimental ecosystem research, and ecosystem rehabilitation may be permitted.

World heritage sites represent areas of "outstanding universal value" for their natural features, their cultural value, or for both natural and cultural values. The table includes only natural and mixed natural and cultural sites. Any party to the World Heritage Convention may nominate natural sites that contain examples of a major stage of Earth's evolutionary history; a significant ongoing geological process; a unique or superlative natural phenomenon, formation, or feature; or a habitat for a threatened species. Several countries share world heritage sites. These sites, referred to as international heritage sites, are counted only once in continental and world totals.

Any party to the Convention on Wetlands of International Importance Especially as Waterfowl Habitat (Ramsar, Iran, 1971) that agrees to respect a site's integrity and to establish wetland reserves can designate *wetlands of international importance*.

Data Table 11.2

Globally Threatened Species: Mammals, Birds, and Higher Plants, 1990s

Sources: World Conservation Monitoring Centre (WCMC), *Biodiversity Data Sourcebook*, (World Conservation Press, Cambridge, U.K., 1994); WCMC, *Global Biodiversity Status of the Earth's Living Resources* (Chapman and Hall, London, 1992),

and unpublished data (WCMC, Cambridge, U.K., July 1995).

The *total number of known species* may include introductions in some instances. Data on mammals exclude cetaceans (whales and porpoises), except where otherwise indicated. Threatened bird species are listed for countries included within their breeding or wintering ranges. Only flowering plants are listed under total *higher plants* species numbers.

The number of *endemic species* refers to those species known to be found only within the country listed. The number of total endemic plant species listed for each country includes flowering plants, ferns, and conifers and cycads.

Figures are not necessarily comparable among countries because taxonomic concepts and the extent of knowledge vary (for the latter reason, country totals of species and endemics may be underestimates). In general, numbers of mammals and birds are fairly well known, while plants have not been as well inventoried.

The World Conservation Union (IUCN) classifies threatened and endangered species into six categories:

Endangered. "Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating."

Vulnerable. "Taxa believed likely to move into the Endangered category in the near future if the causal factors continue operating."

Rare. "Taxa with world populations that are not at present Endangered or Vulnerable, but are at risk."

Indeterminate. "Taxa known to be Endangered, Vulnerable, or Rare but where there is not enough information to say which of the three categories is appropriate."

Out of Danger. "Taxa formerly included in one of the above categories, but which are now considered relatively secure because effective conservation measures have been taken or the previous threat to their survival has been removed."

Insufficiently Known. "Taxa that are suspected but not definitely known to belong to any of the above categories."

The number of *threatened species* listed for all countries includes full species that are endangered, vulnerable, rare, and indeterminate, but excludes introduced species, species whose status is insufficiently known, or those known to be extinct. Threatened species data for animals, presented in Data Tables 11.2 and 11.3, reflect estimates presented in the World Conservation Union (IUCN), *1994 IUCN Red List of Threatened Animals* (IUCN, Gland, 1993). Threatened species

data for birds are based on a 1994 Birdlife International assessment, using a new threat assessment methodology. A version of this methodology is currently under review for adoption by IUCN.

Number of species per 10,000 square kilometers provides a relative estimate for comparing numbers of species among countries of differing size. Because the relationship between area and species number is nonlinear (i.e., as the area sampled increases, the number of new species located decreases), a species-area curve has been used to standardize these species numbers. The curve predicts how many species a country would have, given its current number of species, if it was a uniform 10,000 square kilometers in size. This number is calculated using the formula: $S = cA^z$, where S = the number of endangered species, A = area, and c and z are constants. The slope of the species-area curve is determined by the constant z , which is approximately 0.33 for large areas containing many habitats. This constant is based on data from previous studies of species-area relationships. In reality, the constant z would differ among regions and countries, because of differences in species' range size (which tend to be smaller in the tropics) and differences in varieties of habitats present. A tropical country with a broad variety of habitats would be expected to have a steeper species-area curve than a temperate, homogenous country because one would predict a greater number of both species and threatened species per unit area. Species-area curves are also steeper for islands than for mainland countries. At present, there are insufficient regional data to estimate separate slopes for each country.

Data Table 11.3

Globally Threatened Species: Reptiles, Amphibians, and Fish, 1990s

Sources: World Conservation Monitoring Centre (WCMC), *Biodiversity Data Sourcebook* (World Conservation Press, Cambridge, U.K., 1994); WCMC, *Global Biodiversity Status of the Earth's Living Resources* (Chapman and Hall, London, 1992), and unpublished data (WCMC, Cambridge, U.K., July 1995 and January 1996).

For definitions of *total species*, *endemic species*, and *threatened species*, refer to the Technical Notes for Data Table 11.2. Threatened marine turtles and marine fish are excluded from country totals. Endangered fish species numbers do not include approximately 250 haplochromine and 2 tilapia species of Lake Victoria cichlids, since the ranges of these species are undetermined.

The number of species per 10,000 square kilometers provides a relative estimate for

comparing numbers of species among countries of differing size. For details, refer to the Technical Notes for Data Table 11.2.

Data Table 11.4

Marine Biodiversity

Sources: Length of marine coastline: United Nations Office for Ocean Affairs and the Law of the Sea, unpublished data (United Nations, New York, June 1989); U.S. Central Intelligence Agency, *The World Factbook 1994* (U.S. Government Printing Office, Washington, D.C., 1994). Shelf area to 200-meter depth: John P. Albers, M. Devereux Carter, Allen L. Clark *et al.*, *Summary Petroleum and Selected Mineral Statistics for 120 Countries, Including Offshore Areas*, Geological Survey Professional Paper 817 (U.S. Government Printing Office, Washington, D.C., 1973). Exclusive economic zone: United Nations Office for Ocean Affairs and the Law of the Sea, unpublished data (United Nations, New York, June 1989). French Polynesia and New Caledonia: Anthony Bergin, "Fisheries Surveillance in the South Pacific," *Ocean & Shoreline Management*, Vol. 11 (1988), p. 468. Marine species data: World Conservation Monitoring Centre, *Biodiversity Data Sourcebook* (World Conservation Press, Cambridge, U.K., 1994); Thomas Jefferson, Stephen Leatherwood, and Marc Webber, *Marine Mammals of the World* (United Nations Environment Programme and Food and Agriculture Organization of the United Nations, Rome, 1993). Marine protected areas: Great Barrier Reef Marine Park Authority, unpublished data (Canberra, Australia, 1995); Graeme Kelleher, Chris Bleakley, and Sue Wells, eds., *A Global Representative System of Marine Protected Areas*, Vol. I, (The Great Barrier Reef Marine Park Authority, The World Bank, and the World Conservation Union (IUCN), Washington, D.C., 1995).

The United Nations Office for Ocean Affairs and the Law of the Sea compiles information concerning coastal claims from the following sources: the United Nations Legislative Series, official gazettes, communications to the Secretary General, legal journals, and other publications. National claims to maritime zones fall into five categories: territorial sea, contiguous zone, exclusive economic zone (EEZ), exclusive fishing zone, and continental shelf. The extent of the continental shelf to 200-meter depth and the exclusive economic zone for those countries with marine coastline are presented in the table. Only the potential and not the actual established area of the EEZ is shown.

Under currently recognized international principles, an EEZ may be established by a nation out to 200 nautical miles to claim all

the resources within the zone, including fish and all other living resources; minerals; and energy from wind, waves, and tides. Nations may also claim rights to regulate scientific exploration, protect the marine environment, and establish marine terminals and artificial islands. The EEZ data shown do not reflect the decisions of some countries, such as those in the European Community, to collectively manage fishing zones on EEZs in some areas. When countries' EEZs overlap—such as those of the United States and Cuba, which both have 200-mile EEZs, yet are only 90 miles apart—they must agree on a maritime boundary between them, often a halfway point.

Total number of known coastal marine species includes *fish* recorded within coastal waters, *turtles*—loggerhead, green turtle, leatherback, hawksbill turtle, Kemp's ridley, and olive ridley—recorded to nest along national shorelines; and several categories of *mammal* species: cetaceans (whales, porpoises, and dolphins) restricted to nearshore waters, seals, sea lions, dugongs, manatees, otters, and polar bears.

Threatened coastal marine mammal species includes full species that are listed by the World Conservation Union as endangered, vulnerable, and rare, and those whose status is classified as indeterminate. It excludes species whose status is insufficiently known, and species known to be extinct. For details of these threatened classifications, refer to the Technical Notes to Data Table 11.2. Total and threatened mammal species data do not include a large number of cetacean species that range outside of nearshore waters.

Only two types of *marine habitats* are listed within Data Table 11.4: *mangroves* and *coral reefs*. Information on mangrove and coral reef extent was culled by WCMC from numerous sources; therefore country totals are not comparable as data are for various years, and data quality varies.

Marine protected areas (MPAs) list nationally protected areas with a sub-tidal component. Total area listed may include terrestrial portions of MPA sites. A number of these sites are also internationally protected areas (Ramsar sites, biosphere reserves, and world heritage sites). For further details on protected area classification, refer to the Technical Notes to Data Table 11.1. National and regional totals include all MPAs for which geographic (last/long) coordinates are available. Global totals also include 17 sites in Antarctica, and 16 sites for which geographic coordinates were not available.

MPA data come from a global assessment conducted by the World Bank, IUCN, and The Great Barrier Reef Marine Park Authority of existing protected areas, and priorities for future protection. *Regional priority sites*

were selected according to eight criteria: i) biogeographic representativeness (the degree to which sites offer protection to ecosystem types otherwise underrepresented within the global marine protected area network); ii) ecological criteria that relate to size, integrity, and conservation importance; iii) natural-

ness; iv) economic importance (e.g., nursery areas for economically important species); v) social importance, such as sites of cultural, historical and educational value; vi) scientific importance; vii) international or national significance (e.g., potential to be listed as a biosphere reserve); and viii) the degree to which

it is practical or feasible to create or maintain a protected area within the site, given existing pressures and management and sociopolitical constraints. Proposed regional priority sites are excluded from data presented in this table.