

Are poverty and protected area establishment linked at a national scale?

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Appendix Income groups, land area, poverty indicators¹ and protected area indicators and data², by country.

Country	Income group ³	Land area (km ²)	Poverty indicators			Protected area data and indicators (by all & selected IUCN categories)									
			GNI per capita (Atlas, USD)	GNI per capita (PPP, intl\$)	% living on <USD 1 per day	HDI	Total no. areas ⁴ (I-VI)	Total land area (I-VI, km ²)	% total land area I-VI	% total land area I-II	% total land area I-IV	Mean size I-VI (% total land area)	Mean area I-II (km ²)	Mean area I-IV (km ²)	
Afghanistan	L	652,090					7	2,665	0.41	0.07	0.41	0.0584	424	381	
Albania	LM	27,400	2,060	4,710	2	0.781	45	743	2.71	1.24	1.95	0.0602	24	14	
Algeria	LM	2,381,740	2,160	5,930		0.704	14	145,641	6.11	6.10	6.11	0.4368	13,201	10,403	
Angola	L	1,246,700	740	1,910		0.381	9	53,449	4.29	2.25	4.27	0.4764	7,007	6,654	
Argentina	UM	2,736,690	3,810	11,410	3.33	0.853	263	155,504	5.68	1.37	1.84	0.0216	421	438	
Armenia	LM	28,200	1,080	3,790	12.83	0.754	28	2,913	10.33	7.43	10.33	0.3689	419	104	
Australia	HOECD	7,682,300	21,950	28,780		0.946	5,263	738,227	9.61	6.21	6.56	0.0018	191	108	
Austria	HOECD	82,730	26,810	29,740		0.934	971	23,476	28.38	1.13	6.76	0.0292	93	8	
Azerbaijan	LM	82,600	900	3,390	3.67	0.746	31	5,191	6.28	0.95	6.28	0.2027	71	167	
Bangladesh	L	130,170	420	1,870	36.03	0.509	7	853	0.66	0	0.31	0.0936	0	134	
Belarus	LM	207,480	1,590	6,050	2	0.790	578	16,950	8.17	2.51	8.17	0.0141	1,042	29	
Belgium	HOECD	27,640	25,760	28,920		0.942	56	831	3.01	0	0.34	0.0537	0	2	
Benin	L	110,620	440	1,110		0.421	5	12,995	11.75	7.81	7.81	2.3495	4,322	4,322	
Bolivia	LM	1,084,380	910	2,490	14.38	0.681	23	119,380	11.01	8.58	9.75	0.4787	6,644	5,562	
Bosnia & Herzegovina	LM	51,200	1,820	6,250		0.781	21	268	0.52	0.34	0.40	0.0249	86	14	
Botswana	UM	566,730	4,100	8,370		0.589	12	104,406	18.42	7.76	18.42	1.5352	11,000	8,700	
Brazil	LM	8,459,420	2,670	7,510	8.17	0.775	707	535,539	6.33	2.60	2.67	0.0090	716	398	
Bulgaria	LM	110,630	2,610	7,540	4.73	0.796	716	5,935	5.36	0.68	5.36	0.0075	14	8	
Burkina Faso	L	273,600	300	1,170	44.85	0.302	13	33,063	12.08	2.79	12.08	0.9296	1,912	2,543	
Burundi	L	25,680	90	630	54.56	0.339	15	1,367	5.32	0	4.99	0.3549	0	99	
Cambodia	L	176,520	320	2,000		0.568	28	41,618	23.58	3.32	20.92	0.8420	1,173	1,679	
Cameroon	L	465,400	730	1,990	17.1	0.501	18	32,155	6.91	4.70	6.76	0.3838	1,990	1,851	
Canada	HOECD	9,220,970	24,470	30,040		0.943	4,270	630,731	6.84	5.14	5.72	0.0016	262	200	
Central African Rep.	L	622,980	260	1,080		0.361	14	76,961	12.35	5.33	11.80	0.8824	6,635	5,655	
Chad	L	1,259,200	250	1,080		0.379	9	121,869	9.68	0.33	9.68	1.0754	2,049	13,541	
Chile	UM	748,800	4,950	9,810	2	0.839	59	29,213	3.90	2.29	3.90	0.0661	1,010	495	
China	LM	9,327,420	1,230	4,980	16.6	0.745	1,951	1,627,333	17.45	0	0	0.0089	0	184	
Colombia	LM	1,038,700	1,880	6,410	8.18	0.773	96	100,089	9.64	7.28	9.18	0.1004	2,293	2,510	
Congo (Dem Rep.)	L	2,267,050	100	660	75	0.365	27	199,436	8.80	4.82	5.08	0.3258	9,926	8,864	
Congo (Rep.)	L	341,500	650	730		0.494	13	34,901	10.22	6.24	9.76	0.7862	7,105	3,332	
Costa Rica	UM	51,060	4,410	9,140	2.01	0.834	95	8,521	16.69	8.65	9.15	0.1757	221	88	
Côte d'Ivoire	L	318,000	660	1,400	10.8	0.399	9	20,377	6.41	5.99	6.21	0.7120	2,723	2,469	
Croatia	UM	55,920	6,260	10,610	2	0.830	150	3,222	5.76	1.47	1.67	0.0384	13	9	

Appendix (Continued)

Czech Rep.	UM	77,280	7,150	15,600	0.868	1,768	13,008	16.83	1.11	2.04	0.0095	171	1
Denmark	HOECD	42,430	33,570	31,050	0.932	285	2,660	6.27	0.88	5.41	0.0220	18	10
Ecuador	LM	276,840	2,060	3,440	17.67	23	38,821	14.02	7.54	7.56	0.6097	1,740	1,610
Egypt	LM	995,450	1,250	3,940	3.08	15	40,093	4.03	0.32	0.36	0.2685	1,045	517
El Salvador	LM	20,720	2,270	4,910	31.07	0	0	0	0	0	0	0	0
Eritrea	L	101,000	200	1,020	0.439	3	5,923	5.86	0	5.86	1.9548	0	1,974
Ethiopia	L	1,000,000	110	710	22.98	38	205,082	20.51	2.94	5.29	0.5397	2,448	2,643
Finland	HOECD	304,590	27,060	27,460	0.935	175	28,118	9.23	3.28	3.31	0.0528	182	120
France	HOECD	550,100	24,730	27,640	0.932	1,175	60,677	11.03	0.47	1.03	0.0094	650	5
Georgia	LM	69,490	770	2,610	0.739	31	2,922	4.20	3.54	4.20	0.1356	103	94
Germany	HOECD	348,950	25,270	27,610	0.925	7,199	103,375	29.62	0.37	2.71	0.0041	161	2
Ghana	L	227,540	370	2,190	0.568	16	12,315	5.41	4.54	4.65	0.3383	1,477	1,058
Greece	HOECD	128,900	13,230	19,900	0.902	72	2,732	2.12	0.79	1.78	0.0294	79	43
Guatemala	LM	108,430	1,910	4,090	0.649	73	29,378	27.09	3.81	8.40	0.3712	375	207
Guinea	L	245,720	440	2,080	0.425	3	1,344	0.55	0.17	0.17	0.1823	213	213
Honduras	LM	111,890	970	2,590	0.672	40	5,073	4.53	3.38	4.53	0.1134	270	127
Hungary	UM	92,110	6,350	13,840	0.848	186	7,881	8.56	1.79	2.08	0.0460	329	15
India	L	2,973,190	590	2,880	0.595	490	164,778	5.54	1.24	5.54	0.0113	445	336
Indonesia	LM	1,811,570	1,360	3,210	0.692	948	238,631	13.17	3.01	4.81	0.0139	448	538
Iran	LM	1,636,200	2,010	7,000	0.732	121	115,489	7.06	0.95	3.76	0.0583	972	917
Iraq	LM	437,370				8	5	0.001	0	0.0001	0.0002	0	1
Ireland	HOECD	68,890	27,010	30,910	0.936	74	690	1.00	0.74	1.00	0.0135	85	9
Israel	HNOECD	21,710	16,240	19,440	0.908	158	2,495	11.49	0	11.07	0.0727	0	16
Italy	HOECD	294,110	21,570	26,830	0.920	286	17,429	5.93	2.07	2.69	0.0207	290	35
Japan	HOECD	364,500	34,180	28,450	0.938	129	45,640	12.52	2.32	3.09	0.0971	162	157
Jordan	LM	88,930	1,970	4,290	0.750	9	9,133	10.27	0	0.97	1.1411	0	144
Kazakhstan	LM	2,699,700	2,150	6,280	0.766	73	69,031	2.56	0.58	2.56	0.0350	1,417	946
Kenya	L	569,140	440	1,030	0.488	55	41,238	7.25	5.86	5.98	0.1317	1,011	774
Korea (Dem. Rep.)	L	120,410				31	3,159	2.62	1.25	2.62	0.0846	167	102
Korea (Rep.)	HOECD	98,730	12,030	18,000	0.888	32	3,671	3.72	0	0.54	0.1162	0	33
Kuwait	HNOECD	17,820	17,960	19,480	0.838	1	3	0.01	0	0.01	0.0140	0	3
Kyrgyz Rep.	L	191,800	340	1,690	0.701	68	12,728	6.64	4.88	6.64	0.0976	780	187
Lao PDR	L	230,800	340	1,730	0.534	23	34,945	15.14	0	0	0.6583	0	0
Latvia	UM	62,050	5,290	10,210	0.823	490	8,696	14.01	3.54	14.01	0.0286	78	18
Lebanon	UM	10,230	4,300	4,840	0.758	1	35	0.34	0.34	0.34	0.3421	35	35
Lesotho	L	30,350	710	3,100	0.493	1	87	0.29	0	0.29	0.2869	0	87
Liberia	L	96,320	110			1	965	1.00	1.00	1.00	1.0022	965	965
Libya	UM	1,759,540				3	1,220	0.07	0	0.07	0.0231	0	407
Lithuania	UM	62,680	5,400	11,390	0.842	292	5,927	9.46	1.65	4.02	0.0324	115	10
Macedonia	LM	25,430	2,270	6,750	0.793	50	1,389	5.46	3.02	5.46	0.1093	153	28
Madagascar	L	581,540	290	800	0.469	46	17,497	3.01	1.86	2.43	0.0654	542	353
Malawi	L	94,080	160	590	0.388	9	10,076	10.71	6.53	10.71	1.1900	1,229	1,120
Malaysia	UM	328,550	3,880	8,970	0.793	125	14,039	4.27	2.79	4.25	0.0342	82	115
Mali	L	1,220,190	290	960	0.326	13	36,382	2.98	0.32	2.98	0.2294	3,950	2,799
Mauritania	L	1,025,220	400	1,870	0.465	1	2,500	0.24	0	0.24	0.2439	0	2,500

Appendix (Continued)

Mexico	UM	1,908,690	6,230	8,980	9.85	0.802	129	108,612	5.69	1.14	1.15	0.0441	276	259
Moldova	L	32,880	600	1,760	21.78	0.681	63	473	1.44	0.59	0.73	0.0228	39	6
Mongolia	L	1,566,500	480	1,820	27.02	0.668	50	208,297	13.30	12.00	13.30	0.2659	6,716	4,166
Morocco	LM	446,300	1,440	3,940	2	0.620	8	3,840	0.86	0.01	0.52	0.1075	15	389
Mozambique	L	784,090	210	1,060	40	0.354	6	39,829	5.08	1.75	3.70	0.8466	4,572	5,803
Myanmar	L	657,550				0.551	7	2,173	0.33	0.23	0.29	0.0472	1,497	477
Namibia	LM	823,290	1,960	6,660		0.607	17	39,397	4.79	4.00	4.00	0.2815	4,121	2,997
Nepal	L	143,000	250	1,420		0.504	17	23,261	16.27	7.28	7.98	0.9569	1,157	951
Netherlands	HOECD	33,880	26,230	28,560		0.942	75	4,018	11.86	1.23	4.53	0.1581	35	25
New Zealand	HOECD	267,990	15,530	21,350		0.926	3,426	57,611	21.50	4.91	16.29	0.0063	100	13
Nicaragua	L	121,400	760	3,180	45.12	0.667	67	21,339	17.58	3.72	7.61	0.2623	1,128	144
Niger	L	1,266,700	200	830		0.292	6	84,940	6.71	1.18	6.71	1.1176	7,501	14,157
Nigeria	L	910,770	350	900		0.466	31	35,484	3.90	3.07	3.90	0.1257	1,553	1,145
Norway	HOECD	306,250	43,400	37,910		0.956	160	19,475	6.36	4.98	5.01	0.0397	139	117
Oman	UM	309,500	7,830	13,000		0.770	2	253	0.08	0	0.0004	0.0409	0	12
Pakistan	L	770,880	570	2,040	31	0.497	78	48,536	6.30	1.06	6.15	0.0807	1,629	668
Panama	UM	74,430	4,270	6,420	7.2	0.791	18	6,075	8.16	6.12	6.28	0.4535	506	334
Paraguay	LM	397,300	1,120	4,690	16.4	0.751	31	17,141	4.31	3.47	3.84	0.1392	1,252	565
Peru	LM	1,280,000	2,270	5,080	18.07	0.752	32	73,456	5.74	2.85	2.89	0.1793	4,558	3,080
Philippines	LM	298,170	1,060	4,640	15.48	0.753	126	12,759	4.28	1.05	1.32	0.0340	77	80
Poland	UM	306,290	5,900	11,210	2	0.850	1,504	27,419	8.95	0.50	1.03	0.0060	101	2
Portugal	HOECD	91,500	11,800	17,710		0.897	38	6,038	6.60	0.98	1.29	0.1737	298	45
Romania	LM	229,870	2,260	7,140	2	0.778	108	4,763	2.07	1.86	2.02	0.0192	158	44
Russian Federation	LM	16,888,500	3,280	8,950	2	0.795	7,664	1,078,877	6.39	1.48	5.77	0.0008	2,321	131
Rwanda	L	24,670	220	1,290	51.66	0.431	5	2,817	11.42	6.01	11.42	2.2836	741	563
Saudi Arabia	UM	2,149,690	9,240	13,230		0.768	48	821,751	38.23	0.78	2.07	0.7964	4,203	4,452
Senegal	L	192,530	650	1,620		0.437	7	22,158	11.51	4.46	11.19	1.6441	4,298	4,310
Serbia & Montenegro	LM	102,000	1,910	530		0.273	6	3,261	3.20	1.42	2.30	0.0320	43	32
Sierra Leone	L	71,620	150	1,760		0.842	973	3,758	7.70	7.24	7.45	0.0079	329	266
Slovak Rep.	UM	48,800	6,180	13,440		0.895	41	1,495	7.43	4.17	4.20	0.1812	838	211
Slovenia	HNOECD	20,120	11,920	19,100	2		3	1,906	0.30	0	0.29	0.1013	0	901
Somalia	L	627,340					323	64,453	5.31	3.19	5.27	0.0164	900	201
South Africa	LM	1,214,470	2,750	10,130	10.71	0.666	287	40,235	8.06	0.21	3.65	0.0281	31	124
Spain	HOECD	499,440	17,040	22,150		0.922	86	6,525	10.10	6.84	10.10	0.1174	101	76
Sri Lanka	LM	64,630	1,010	3,740	7.6	0.740	26	114,641	4.82	3.25	3.31	0.1856	11,020	7,857
Sudan	L	2,376,000	470	1,760	55	0.505	2131	36,807	8.94	7.98	8.21	0.0042	45	18
Sweden	HOECD	411,620	28,910	26,710		0.946	2,142	11,852	29.97	0.43	8.02	0.0140	169	2
Switzerland	HOECD	39,550	40,680	32,220		0.936	0	0	0	0	0	0	0	0
Syria	LM	183,780	1,260	3,430		0.710	0	0	0	0	0	0	0	0
Tajikistan	L	140,600	250	1,040	7.42	0.671	23	12,353	8.79	2.93	8.79	0.3820	825	537
Tanzania	L	883,590	300	620		0.407	85	263,965	29.87	4.46	16.52	0.3515	2,813	4,054
Thailand	LM	510,890	2,190	7,450	2	0.768	137	67,029	13.12	6.88	13.12	0.0958	616	489
Togo	L	54,390	310	1,640		0.495	9	4,136	7.60	6.24	7.60	0.8449	1,131	460
Tunisia	LM	155,360	2,490	6,850	2	0.745	5	307	0.20	0.20	0.20	0.0395	77	61
Turkey	LM	769,630	2,800	6,710	2	0.751	71	8,043	1.05	0.49	0.63	0.0147	111	106

Appendix (Continued)

Turkmenistan	LM	469,930	1,120	5,860	12.07	0.752	24	22,560	4.80	2.34	4.80	0.2000	1,375	940
Uganda	L	197,100	260	1,430	36.7	0.493	54	51,252	10.51	5.39	10.51	0.4815	1,519	628
Ukraine	LM	579,350	1,190	5,430	2.92	0.777	4,293	20,596	3.00	1.39	3.00	0.0008	321	4
United Arab Emirates	HNOECD	83,600	17,790	20,920		0.824	1	0	0	0	0	0.0005	0	0
UK	HOECD	240,880	28,320	27,690		0.936	414	35,397	0.77	0	0.77	0.0355	0	5
USA	HOECD	9,158,960	37,870	37,750		0.939	2,549	1,727,368	8.64	6.33	8.64	0.0074	739	556
Uruguay	UM	175,020	3,780	7,980	2	0.833	8	296	0.05	0	0.05	0.0211	0	82
Uzbekistan	L	414,240	420	1,720	17.32	0.709	24	21,404	5.17	2.16	5.17	0.2153	894	892
Venezuela	UM	882,050	3,590	4,750	14.31	0.778	174	527,696	24.97	13.92	24.97	0.3438	3,720	3,147
Vietnam	L	325,490	480	2,490	2	0.691	89	19,087	5.25	1.06	5.25	0.0659	346	285
Yemen	L	527,970	520	820	15.7	0.482	0	0	0	0	0	0	0	0
Zambia	L	743,390	430	850	63.65	0.389	76	210,841	8.40	8.39	8.40	0.3732	2,835	1,688
Zimbabwe	L	386,850	480	2,180		0.491	68	50,201	7.03	6.97	7.03	0.1908	2,451	824

¹GNI per capita calculated using the World Bank Atlas method, GNI per capita calculated using purchasing power parity (PPP), and the Human Development Index (HDI). GNI data are from World Bank (2005a), except for % population living on <USD 1 per day for Uganda, Pakistan, Democratic Republic of Congo, North Korea and Sudan (McKay *et al.*, 2004), and HDI figures from UNDP (2004).

²Protected area indicators are total land in protected areas (all IUCN categories, i.e. I-VI) as a percentage of total land area, and land area in IUCN categories I-II and I-IV as a percentage of total land area. All protected area number and area data calculated from IUCN (2005).

³L, Low income; LM, lower middle income; UM, upper middle income; HNOECD, high income non-OECD (Organization for Economic Cooperation and Development); HOECD, high income OECD (World Bank, 2005b)

⁴Only includes IUCN designated protected areas with area data