Annex 6. Variable Descriptions and Data

This section contains complete variable descriptions along with the original data used to produce the 2002 Environmental Sustainability Index. The variables are listed in alphabetical order by variable code (Table A6.1 shows where variables are found within the overall ESI structure). Each page contains the following:

- The variable code.
- The variable name.
- The units in which the variable is measured.
- The reference year (MRYA = Most Recent Year Available for the stated range).
- Data source.
- The logic for including the variable in the ESI.
- The methodology used to produce the variable (in cases where the ESI team did additional processing of the data beyond that of the data providers).
- The mean and median values for the countries in the data list.
- The minimum (min) and maximum (max) values for the countries in the data list.
- The 2.5 and 97.5 percentile cut-off values. In calculating the ESI, we truncated extreme values that fell outside the ranges of these values.
- The original data. Note that where data for a given variable were imputed, the estimated values are shown in brackets.

Annex 1 evaluates the data in along a number of dimensions, and is recommended for readers desiring more information on data quality.

Table A6.1 Variables Grouped by ESI Indicator

Variable No.	Variable Code	Variable Name	Indicator
1	SO2	Urban SO_2 concentration	Air Quality
2	NO2	Urban NO_2 concentration	
3	TSP	Urban TSP concentration	
4	WATCAP	Internal renewable water per capita	Water Quantity
5	WATINC	Per capita water inflow from other countries	
6	GMS_DO	Dissolved oxygen concentration	Water Quality
7	GMS_PH	Phosphorus concentration	
8	GMS_SS	Suspended solids	
9	GMS_EC	Electrical conductivity	
10	PRTMAM	Percentage of mammals threatened	Biodiversity
11	PRTBRD	Percentage of breeding birds threatened	
12	ANTH10	Percent of land area having very low anthropogenic impact	Land
13	ANTH40	Percent of land area having high anthropogenic impact	
14	NOXKM	NOx emissions per populated land area	Reducing Air Pollution
15	SO2KM	SO_2 emissions per populated land area	
16	VOCKM	VOCs emissions per populated land area	
17	COALKM	Coal consumption per populated land area	
18	CARSKM	Vehicles per populated land area	
19	FERTHA	Fertilizer consumption per hectare of arable land	Reducing Water Stress
20	PESTHA	Pesticide use per hectare of crop land	
21	BODWAT	Industrial organic pollutants per available fresh water	
22	WATSTR	Percentage of country's territory under severe water stress	
23	FOREST	Percentage change in forest cover 1990-95	Reducing Ecosystem Stress
24	AC_EXC	Percentage of county with acidification exceedence	

Variable No.	Variable Code	Variable Name	Indicator
25	EFPC	Ecological footprint per capita	Reducing Waste and Consumption Pressures
26	NUKE	Radioactive waste	
27	TFR	Total fertility rate	Reducing Popuation Growth
28	GR2050	Percentage change in projected population between 2000 & 2050	
29	UND_NO	Proportion of Undernourished in Total Population	Basic Human Sustenance
30	WATSUP	Percent of population with access to improved drinking-water supply	
31	DISRES	Child death rate from respiratory diseases	Environmental Health
32	DISINT	Death rate from intestinal infectious diseases	
33	U5MORT	Under-5 mortality rate	
34	INNOV	Innovation Index	Science/Technology
35	TAI	Technology achievement index	
36	SCHOOL	Mean years of schooling (age 15 and above)	
37	IUCN	IUCN member organizations per million population	Capacity for Debate
38	CIVLIB	Civil & Political liberties	
39	POLITY	Democratic institutions	
40	ESIMIS	Percentage of ESI variables in publicly available data sets	
41	WEFGOV	WEF Survey Questions on Environmental Governance	Environmental Governance
42	PRAREA	Percentage of land area under protected status	
43	EIA	Number of sectoral EIA guidelines	
44	FSC	FSC accredited forest area as a percent of total forest area	
45	GRAFT	Reducing corruption	
46	GASPR	Ratio of gasoline price to international average	
47	WEFSUB	WEF subsidies survey question	
48	SUBFSH	WWF Subsidy measure	
49	ISO14	Number of ISO14001 certified companies per million $ GDP	Private Sector Responsiveness
50	DJSGI	Dow Jones sustainability group index	
51	ECOVAL	Average Innovest EcoValue rating of firms	
52	WBCSD	World Business Council for Sustainable Development members	
53	WEFPRI	WEF Survey Questions on Private Sector Environmental Innovation	
54	ENEFF	Energy efficiency (total energy consumption per unit GDP)	Eco-efficiency
55	RENPC	Renewable energy prod. as a percent of total energy consumption	
56	EIONUM	Number of memberships in environmental intergovernmental orgs.	Participation in International Cooperative Efforts
57	CITES	Percentage of CITES reporting requirements met	
58	VIENNA	Levels of participation in the Vienna Convention/Montreal Protocol	
59	FCCC	Levels of participation in the Climate Change Convention	
60	MONFUN	Montreal protocol multilateral fund participation	
61	GEF	Global environmental facility participation	
62	WEFAGR	Compliance with International Agreements	
63	CO2PC	Carbon lifestyle efficiency (CO2 emissions per capita)	Reducing Greenhouse Gas Emissions
64	CO2GDP	Carbon economic efficiency (CO2 emissions per dollar GDP)	
65	CFC	CFC consumption (total times per capita)	Reducing Transboundary Environmental Pressures
66	SO2EXP	SO_2 exports	
67	FSHCAT	Total marine fish catch	
68	FSHCON	Seafood consumption per capita	

Variable: AC_EXC

Name: Percentage of country with acidification exceedance

Units: Percent of Land Area **Reference Year:** 1990

Source Stockholm Environment Institute at York, Acidification in Developing Countries: Ecosystem Sensitivity and the Critical Loads Approach at the Global scale, 2000

Logic: Exceedance of critical SO_2 loading represents an indicator for ecosystems under stress due to acidification from anthropogenic sulphur deposition. Since it takes into account both the deposition and the ability of the ecosystem to respond to stress, it is a good indicator of the ecosystems' "sustainability".

Methodology: From a map of acidification exceedance, the areas at risk were summed within each country and then the percentage of a country at risk of exceedance was calculated. See pages 21-22 of the 2001 ESI report for more details on how the acidification exceedance map was produced.

Mean	7.72	**Max**	97.48	**97.5 percentile cut-off value:**	66.1
Median	0	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	2.54	**Egypt**	0.00	**Liberia**	0.00	**Saudi Arabia**	0.00
Algeria	0.00	**El Salvador**	0.00	**Libya**	0.00	**Senegal**	0.00
Angola	1.83	**Estonia**	0.00	**Lithuania**	0.00	**Sierra Leone**	0.00
Argentina	0.00	**Ethiopia**	0.00	**Macedonia**	97.48	**Slovakia**	27.23
Armenia	0.00	**Finland**	1.19	**Madagascar**	0.00	**Slovenia**	40.11
Australia	0.00	**France**	18.84	**Malawi**	0.00	**Somalia**	0.00
Austria	50.81	**Gabon**	0.00	**Malaysia**	0.00	**South Africa**	0.00
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.00	**South Korea**	58.90
Bangladesh	0.00	**Germany**	51.88	**Mauritania**	0.00	**Spain**	3.65
Belgium	75.83	**Ghana**	0.00	**Mexico**	0.68	**Sri Lanka**	0.00
Benin	0.00	**Greece**	2.77	**Moldova**	0.00	**Sudan**	0.00
Bhutan	0.00	**Guatemala**	0.00	**Mongolia**	0.00	**Sweden**	34.37
Bolivia	0.00	**Guinea**	0.00	**Morocco**	0.00	**Switzerland**	36.90
Bosnia and H.	34.07	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	0.00
Botswana	0.00	**Haiti**	0.00	**Myanmar**	0.77	**Tajikistan**	0.00
Brazil	0.00	**Honduras**	0.00	**Namibia**	0.00	**Tanzania**	0.00
Bulgaria	14.10	**Hungary**	4.93	**Nepal**	0.00	**Thailand**	0.27
Burkina Faso	0.00	**Iceland**	0.00	**Netherlands**	43.81	**Togo**	0.00
Burundi	0.00	**India**	0.00	**New Zealand**	0.00	**Trin. and Tob.**	0.00
Byelarus	4.91	**Indonesia**	8.15	**Nicaragua**	0.00	**Tunisia**	0.00
Cambodia	0.00	**Iran**	0.00	**Niger**	0.00	**Turkey**	0.02
Cameroon	0.00	**Iraq**	0.00	**Nigeria**	0.00	**Turkmenistan**	0.00
Canada	5.39	**Ireland**	54.16	**North Korea**	2.43	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	0.00	**Norway**	15.96	**Ukraine**	4.27
Chad	0.00	**Italy**	17.94	**Oman**	0.00	**United Ar. Em.**	0.00
Chile	0.00	**Ivory Coast**	0.00	**Pakistan**	0.00	**United King.**	45.75
China	15.66	**Jamaica**	0.00	**Panama**	0.00	**United States**	13.74
Colombia	0.00	**Japan**	10.99	**Papua N.G.**	0.00	**Uruguay**	0.00
Congo	0.00	**Jordan**	0.00	**Paraguay**	0.00	**Uzbekistan**	0.00
Costa Rica	0.00	**Kazakhstan**	0.00	**Peru**	0.00	**Venezuela**	0.00
Croatia	4.69	**Kenya**	0.00	**Philippines**	0.00	**Vietnam**	32.17
Cuba	0.00	**Kuwait**	0.00	**Poland**	53.45	**Zaire**	0.43
Czech Rep.	89.22	**Kyrgyzstan**	0.00	**Portugal**	3.24	**Zambia**	5.13
Denmark	54.88	**Laos**	29.22	**Romania**	19.27	**Zimbabwe**	0.00
Dom. Rep.	0.00	**Latvia**	1.95	**Russia**	0.33		
Ecuador	0.00	**Lebanon**	0.00	**Rwanda**	0.00		

Variable: ANTH10

Name: Percent of land area having very low anthropogenic impact

Units: Percent of Land Area **Reference Year:** mid 1990s

Source Wild Areas Project (WAP), joint Wildlife Conservation Society (WCS) and CIESIN project to map the last wild places on the earth's surface.

Logic: Agricultural activities and the built environment have high impacts on the natural environment. The conversion of natural vegetation for anthropogenic activity has important ecological implications.

Methodology: Global grids for population (GPW), land use (USGS AVHRR based classification from EROS data center), VMAP roads, VMAP railways, VMAP coastlines, VMAP major rivers and the statble lights data were all scored for "wildness". The scores were aggregated and normalized.

Mean	18.64	**Max**	89.9	**97.5 percentile cut-off value:**	80.39
Median	3.555	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.32	**Egypt**	70.06	**Liberia**	8.96	**Saudi Arabia**	44.34
Algeria	80.82	**El Salvador**	0.00	**Libya**	89.90	**Senegal**	4.13
Angola	43.63	**Estonia**	2.86	**Lithuania**	0.00	**Sierra Leone**	0.00
Argentina	35.99	**Ethiopia**	14.91	**Macedonia**	0.70	**Slovakia**	0.00
Armenia	2.50	**Finland**	30.04	**Madagascar**	17.48	**Slovenia**	0.00
Australia	74.00	**France**	0.04	**Malawi**	16.10	**Somalia**	17.70
Austria	0.04	**Gabon**	72.79	**Malaysia**	27.45	**South Africa**	19.78
Azerbaijan	0.28	**Gambia**	0.00	**Mali**	59.81	**South Korea**	0.00
Bangladesh	0.06	**Germany**	0.02	**Mauritania**	79.46	**Spain**	3.43
Belgium	0.00	**Ghana**	0.58	**Mexico**	17.65	**Sri Lanka**	0.00
Benin	3.08	**Greece**	0.01	**Moldova**	0.00	**Sudan**	41.36
Bhutan	1.76	**Guatemala**	15.10	**Mongolia**	69.99	**Sweden**	31.41
Bolivia	60.93	**Guinea**	0.02	**Morocco**	17.54	**Switzerland**	2.43
Bosnia and H.	0.00	**Guinea-Bissau**	0.65	**Mozambique**	21.79	**Syria**	0.11
Botswana	67.41	**Haiti**	0.00	**Myanmar**	15.66	**Tajikistan**	25.63
Brazil	50.41	**Honduras**	10.65	**Namibia**	66.23	**Tanzania**	9.30
Bulgaria	0.00	**Hungary**	0.07	**Nepal**	2.62	**Thailand**	0.90
Burkina Faso	1.81	**Iceland**	80.08	**Netherlands**	0.00	**Togo**	0.00
Burundi	5.13	**India**	1.94	**New Zealand**	31.51	**Trin. and Tob.**	0.00
Byelarus	0.00	**Indonesia**	15.95	**Nicaragua**	12.90	**Tunisia**	26.20
Cambodia	12.16	**Iran**	2.53	**Niger**	73.54	**Turkey**	0.64
Cameroon	10.46	**Iraq**	3.68	**Nigeria**	0.55	**Turkmenistan**	22.28
Canada	81.87	**Ireland**	0.01	**North Korea**	0.00	**Uganda**	12.55
Central Af. R.	51.50	**Israel**	0.61	**Norway**	28.71	**Ukraine**	0.00
Chad	59.45	**Italy**	0.04	**Oman**	53.97	**United Ar. Em.**	0.16
Chile	40.46	**Ivory Coast**	4.38	**Pakistan**	2.51	**United King.**	0.21
China	31.49	**Jamaica**	0.00	**Panama**	14.83	**United States**	35.89
Colombia	48.26	**Japan**	0.06	**Papua N.G.**	35.28	**Uruguay**	2.39
Congo	71.62	**Jordan**	2.08	**Paraguay**	44.12	**Uzbekistan**	34.40
Costa Rica	0.02	**Kazakhstan**	39.45	**Peru**	45.56	**Venezuela**	50.77
Croatia	0.00	**Kenya**	39.01	**Philippines**	0.52	**Vietnam**	1.05
Cuba	0.91	**Kuwait**	0.11	**Poland**	0.00	**Zaire**	19.71
Czech Rep.	0.00	**Kyrgyzstan**	14.97	**Portugal**	0.78	**Zambia**	23.98
Denmark	0.00	**Laos**	6.21	**Romania**	0.00	**Zimbabwe**	1.04
Dom. Rep.	0.01	**Latvia**	0.02	**Russia**	65.80		
Ecuador	24.93	**Lebanon**	0.00	**Rwanda**	2.42		

Variable: ANTH40

Name: Percent of land area having very high anthropogenic impact

Units: Percent of Land Area **Reference Year:** mid 1990s

Source Wild Areas Project (WAP), joint Wildlife Conservation Society (WCS) and CIESIN project to map the last wild places on the earth's surface.

Logic: Agricultural activities and the built environment have high impacts on the natural environment. The conversion of natural vegetation for anthropogenic activity has important ecological implications.

Methodology: Global grids for population (GPW), land use (USGS AVHRR based classification from EROS data center), VMAP roads, VMAP railways, VMAP coastlines, VMAP major rivers and the statble lights data were all scored for "wildness". The scores were aggregated and normalized.

Mean	7.26	**Max**	43.93	**97.5 percentile cut-off value:**	35.65
Median	2.895	**Min**	0.01	**2.5 percentile cut-off value:**	0.03

Albania	6.09	**Egypt**	2.37	**Liberia**	1.78	**Saudi Arabia**	0.43
Algeria	0.50	**El Salvador**	12.17	**Libya**	0.12	**Senegal**	2.21
Angola	0.22	**Estonia**	13.63	**Lithuania**	13.99	**Sierra Leone**	4.70
Argentina	2.86	**Ethiopia**	0.31	**Macedonia**	12.73	**Slovakia**	21.44
Armenia	3.73	**Finland**	3.70	**Madagascar**	0.92	**Slovenia**	14.55
Australia	0.48	**France**	24.26	**Malawi**	0.85	**Somalia**	0.07
Austria	16.76	**Gabon**	0.15	**Malaysia**	3.72	**South Africa**	2.92
Azerbaijan	7.31	**Gambia**	13.37	**Mali**	0.18	**South Korea**	20.92
Bangladesh	16.34	**Germany**	32.84	**Mauritania**	0.03	**Spain**	10.33
Belgium	43.93	**Ghana**	1.89	**Mexico**	2.77	**Sri Lanka**	16.90
Benin	0.79	**Greece**	12.28	**Moldova**	10.92	**Sudan**	0.19
Bhutan	0.06	**Guatemala**	3.93	**Mongolia**	0.02	**Sweden**	7.48
Bolivia	0.19	**Guinea**	1.18	**Morocco**	1.48	**Switzerland**	27.34
Bosnia and H.	6.99	**Guinea-Bissau**	3.37	**Mozambique**	0.95	**Syria**	1.95
Botswana	0.15	**Haiti**	7.22	**Myanmar**	1.73	**Tajikistan**	3.74
Brazil	1.53	**Honduras**	4.09	**Namibia**	0.04	**Tanzania**	0.62
Bulgaria	15.47	**Hungary**	26.38	**Nepal**	2.00	**Thailand**	2.68
Burkina Faso	0.63	**Iceland**	0.15	**Netherlands**	43.79	**Togo**	1.99
Burundi	0.77	**India**	10.24	**New Zealand**	3.43	**Trin. and Tob.**	18.61
Byelarus	10.95	**Indonesia**	3.34	**Nicaragua**	3.66	**Tunisia**	4.31
Cambodia	0.83	**Iran**	1.10	**Niger**	0.03	**Turkey**	2.87
Cameroon	1.09	**Iraq**	1.20	**Nigeria**	1.60	**Turkmenistan**	0.78
Canada	1.03	**Ireland**	17.95	**North Korea**	13.31	**Uganda**	1.66
Central Af. R.	0.21	**Israel**	14.79	**Norway**	3.89	**Ukraine**	14.36
Chad	0.01	**Italy**	23.85	**Oman**	0.79	**United Ar. Em.**	2.64
Chile	2.35	**Ivory Coast**	0.80	**Pakistan**	4.23	**United King.**	32.05
China	3.76	**Jamaica**	18.17	**Panama**	6.07	**United States**	6.59
Colombia	1.33	**Japan**	30.22	**Papua N.G.**	0.19	**Uruguay**	4.24
Congo	0.25	**Jordan**	1.03	**Paraguay**	0.54	**Uzbekistan**	3.90
Costa Rica	8.41	**Kazakhstan**	0.70	**Peru**	0.53	**Venezuela**	0.75
Croatia	16.23	**Kenya**	0.93	**Philippines**	9.01	**Vietnam**	3.77
Cuba	21.04	**Kuwait**	7.02	**Poland**	23.20	**Zaire**	0.62
Czech Rep.	26.11	**Kyrgyzstan**	1.66	**Portugal**	10.85	**Zambia**	0.51
Denmark	39.45	**Laos**	0.01	**Romania**	15.68	**Zimbabwe**	2.01
Dom. Rep.	5.93	**Latvia**	16.24	**Russia**	1.46		
Ecuador	2.66	**Lebanon**	14.47	**Rwanda**	0.18		

Variable: BODWAT

Name: Industrial organic pollutants per available freshwater

Units: Metric Tons of BOD Emissions per Cubic Km of Water **Reference Year:** MRYA 1996-1998

Source World Bank, World Development Indicators 2001, Washington, DC: World Bank, 2001 (for BOD emissions) and Center for Environmental Systems Research, University of Kassel, WaterGap 2.1, 2000 (for data on water quantity).

Logic: Emission of organic pollutants from industrial activities cause water quality degradation. Given these considerations, the Biochemical Oxygen Demand (BOD) emissions have been normalized per amount of freshwater availability (internal water availability + inflows from other countries).

Methodology: Emissions of organic water pollutants are measured by biochemical oxygen demand, which refers to the amount of oxygen that bacteria in water will consume in breaking down waste. This is a standard water-treatment test for the presence of organic pollutants. The data from the World Bank, which represented BOD emissions (kilograms per day) were normalized by the combination of water availability per capita and water inflow availability per capita from the WaterGap2.1 model. In calculating the ESI, the base-10 logarithm of this variable was used.

Mean	118614145	**Max**	8302990000	**97.5 percentile cut-off value:**	501855091.2
Median	0.79	**Min**	0	**2.5 percentile cut-off value:**	0.03

Albania	0.27	**Egypt**	3.58	**Liberia**	--	**Saudi Arabia**	--
Algeria	8.58	**El Salvador**	1.21	**Libya**	--	**Senegal**	0.48
Angola	--	**Estonia**	--	**Lithuania**	1.29	**Sierra Leone**	--
Argentina	--	**Ethiopia**	0.16	**Macedonia**	4.70	**Slovakia**	0.76
Armenia	2.14	**Finland**	0.61	**Madagascar**	--	**Slovenia**	1.32
Australia	--	**France**	2.49	**Malawi**	--	**Somalia**	--
Austria	0.88	**Gabon**	--	**Malaysia**	0.40	**South Africa**	4.74
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	5.68
Bangladesh	--	**Germany**	--	**Mauritania**	--	**Spain**	3.70
Belgium	--	**Ghana**	--	**Mexico**	0.42	**Sri Lanka**	--
Benin	--	**Greece**	1.32	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	0.12	**Mongolia**	--	**Sweden**	0.62
Bolivia	--	**Guinea**	--	**Morocco**	7.85	**Switzerland**	3.02
Bosnia and H.	0.16	**Guinea-Bissau**	--	**Mozambique**	0.00	**Syria**	--
Botswana	0.18	**Haiti**	--	**Myanmar**	0.00	**Tajikistan**	--
Brazil	--	**Honduras**	--	**Namibia**	--	**Tanzania**	--
Bulgaria	0.51	**Hungary**	1.17	**Nepal**	0.17	**Thailand**	--
Burkina Faso	--	**Iceland**	0.08	**Netherlands**	1.29	**Togo**	--
Burundi	--	**India**	0.97	**New Zealand**	0.17	**Trin. and Tob.**	--
Byelarus	--	**Indonesia**	0.16	**Nicaragua**	--	**Tunisia**	11.40
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	1.10
Cameroon	0.05	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	0.11	**Ireland**	0.68	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	27.07	**Norway**	0.20	**Ukraine**	5.52
Chad	--	**Italy**	--	**Oman**	2.30	**United Ar. Em.**	--
Chile	0.25	**Ivory Coast**	0.11	**Pakistan**	--	**United King.**	3.34
China	3.78	**Jamaica**	2.19	**Panama**	0.15	**United States**	1.14
Colombia	0.03	**Japan**	4.27	**Papua N.G.**	--	**Uruguay**	0.03
Congo	--	**Jordan**	11.53	**Paraguay**	--	**Uzbekistan**	--
Costa Rica	0.36	**Kazakhstan**	--	**Peru**	--	**Venezuela**	0.07
Croatia	0.32	**Kenya**	0.78	**Philippines**	0.69	**Vietnam**	--
Cuba	--	**Kuwait**	8302990000.00	**Poland**	5.85	**Zaire**	--
Czech Rep.	7.90	**Kyrgyzstan**	--	**Portugal**	2.50	**Zambia**	--
Denmark	7.13	**Laos**	--	**Romania**	--	**Zimbabwe**	0.42
Dom. Rep.	--	**Latvia**	0.80	**Russia**	0.43		
Ecuador	0.09	**Lebanon**	--	**Rwanda**	--		

Variable: CARSKM

Name: Vehicles per populated land area

Units: Vehicles/Populated Land Area (in km2) **Reference Year:** MRYA 1996-1999

Source World Bank, World Development Indicators 2001, Washington, DC: World Bank, 2001.

Logic: This is a proxy measure of air pollution from the transportation sector, which is the fastest growing sector in terms of energy use.

Methodology: Air pollution is generally greatest in densely populated areas. To take this into account, we used the Gridded Population of the World dataset available from CIESIN and calculated the total land area in each country inhabited with a population density of greater than 5 persons per sq. km. We then utilized this land area as the denominator for the vehicles data.

Mean	19.19	**Max**	196.48	**97.5 percentile cut-off value:**	136.62
Median	4.565	**Min**	0.01	**2.5 percentile cut-off value:**	0.05

Albania	4.99	**Egypt**	17.23	**Liberia**	0.37	**Saudi Arabia**	3.68
Algeria	4.20	**El Salvador**	17.49	**Libya**	33.24	**Senegal**	0.64
Angola	0.45	**Estonia**	12.96	**Lithuania**	18.46	**Sierra Leone**	0.35
Argentina	4.67	**Ethiopia**	0.09	**Macedonia**	11.95	**Slovakia**	29.10
Armenia	0.19	**Finland**	15.67	**Madagascar**	0.23	**Slovenia**	45.12
Australia	47.91	**France**	60.00	**Malawi**	0.60	**Somalia**	0.01
Austria	52.48	**Gabon**	0.43	**Malaysia**	12.81	**South Africa**	9.14
Azerbaijan	4.36	**Gambia**	1.83	**Mali**	0.10	**South Korea**	110.36
Bangladesh	0.97	**Germany**	124.34	**Mauritania**	0.23	**Spain**	37.42
Belgium	153.24	**Ghana**	0.66	**Mexico**	10.91	**Sri Lanka**	9.59
Benin	0.41	**Greece**	28.50	**Moldova**	9.25	**Sudan**	0.26
Bhutan	0.71	**Guatemala**	7.00	**Mongolia**	0.91	**Sweden**	18.84
Bolivia	0.82	**Guinea**	0.15	**Morocco**	4.46	**Switzerland**	96.52
Bosnia and H.	2.09	**Guinea-Bissau**	0.46	**Mozambique**	0.02	**Syria**	2.43
Botswana	2.43	**Haiti**	2.05	**Myanmar**	0.12	**Tajikistan**	0.11
Brazil	4.06	**Honduras**	3.92	**Namibia**	2.16	**Tanzania**	0.16
Bulgaria	20.17	**Hungary**	29.97	**Nepal**	[18.17]	**Thailand**	12.36
Burkina Faso	0.22	**Iceland**	113.84	**Netherlands**	196.48	**Togo**	2.12
Burundi	[7.04]	**India**	2.50	**New Zealand**	25.26	**Trin. and Tob.**	28.61
Byelarus	6.78	**Indonesia**	3.26	**Nicaragua**	0.41	**Tunisia**	5.99
Cambodia	0.44	**Iran**	1.66	**Niger**	0.20	**Turkey**	7.01
Cameroon	0.42	**Iraq**	2.54	**Nigeria**	2.69	**Turkmenistan**	[14.16]
Canada	34.91	**Ireland**	16.21	**North Korea**	[69.45]	**Uganda**	0.55
Central Af. R.	0.01	**Israel**	78.41	**Norway**	19.42	**Ukraine**	8.17
Chad	0.08	**Italy**	115.31	**Oman**	1.54	**United Ar. Em.**	3.40
Chile	6.39	**Ivory Coast**	1.41	**Pakistan**	1.58	**United King.**	101.40
China	1.77	**Jamaica**	11.54	**Panama**	5.59	**United States**	46.56
Colombia	3.43	**Japan**	187.53	**Papua N.G.**	0.27	**Uruguay**	4.40
Congo	0.59	**Jordan**	7.99	**Paraguay**	0.78	**Uzbekistan**	[14.15]
Costa Rica	10.15	**Kazakhstan**	1.11	**Peru**	1.42	**Venezuela**	5.17
Croatia	[18.52]	**Kenya**	1.24	**Philippines**	7.42	**Vietnam**	[10.93]
Cuba	3.26	**Kuwait**	39.69	**Poland**	36.32	**Zaire**	[10.42]
Czech Rep.	48.33	**Kyrgyzstan**	0.93	**Portugal**	37.74	**Zambia**	0.61
Denmark	50.91	**Laos**	0.10	**Romania**	15.12	**Zimbabwe**	0.99
Dom. Rep.	7.88	**Latvia**	10.24	**Russia**	5.66		
Ecuador	3.68	**Lebanon**	104.90	**Rwanda**	1.10		

Variable: CFC

Name: CFC consumption

Units: Ozone Depletion Potential (ODP) Tons (Metric Tons x ODP) **Reference Year:** MRYA 1996-98

Source UNEP, Production and Consumption of Ozone Depleting Substances, 1986-1998, October 1999.

Logic: Emissions of CFCs contribute to the breakdown of the Earth's protective ozone layer and to global climate change. By combining total and per capita emissions we created a measure that goes beyond the debate over which measure best captures global responsibility.

Methodology: The indicator was obtained by multiplying the Total CFCs emissions (metric tons per ozone depletion potential) with the Per capita CFCs emissions (obtained by dividing the total CFCs emissions by the population in 1997). In calculating the ESI, the base-10 logarithm of this variable was used.

Mean	87709.34	**Max**	2096731.55	**97.5 percentile cut-off value:**	1129831
Median	2451.7	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	--	**Egypt**	36637.74	**Liberia**	--	**Saudi Arabia**	142831.18
Algeria	81627.89	**El Salvador**	6433.23	**Libya**	80339.88	**Senegal**	1867.71
Angola	--	**Estonia**	3385.93	**Lithuania**	2919.55	**Sierra Leone**	--
Argentina	31916.38	**Ethiopia**	24.80	**Macedonia**	1997.95	**Slovakia**	0.19
Armenia	--	**Finland**	--	**Madagascar**	739.80	**Slovenia**	0.00
Australia	0.22	**France**	--	**Malawi**	322.74	**Somalia**	--
Austria	--	**Gabon**	126.65	**Malaysia**	259617.88	**South Africa**	619.83
Azerbaijan	5286.64	**Gambia**	101.72	**Mali**	1180.63	**South Korea**	1858868.33
Bangladesh	5643.89	**Germany**	--	**Mauritania**	19.91	**Spain**	--
Belgium	--	**Ghana**	134.00	**Mexico**	128672.29	**Sri Lanka**	3420.18
Benin	34.82	**Greece**	--	**Moldova**	365.59	**Sudan**	3378.16
Bhutan	--	**Guatemala**	2225.37	**Mongolia**	157.67	**Sweden**	--
Bolivia	272.19	**Guinea**	--	**Morocco**	29193.18	**Switzerland**	231.85
Bosnia and H.	--	**Guinea-Bissau**	240.81	**Mozambique**	26.24	**Syria**	279497.02
Botswana	31.81	**Haiti**	--	**Myanmar**	61.54	**Tajikistan**	--
Brazil	588838.63	**Honduras**	1638.72	**Namibia**	222.59	**Tanzania**	1125.00
Bulgaria	0.00	**Hungary**	0.10	**Nepal**	37.69	**Thailand**	239571.46
Burkina Faso	124.44	**Iceland**	0.00	**Netherlands**	--	**Togo**	--
Burundi	643.81	**India**	46502.34	**New Zealand**	0.00	**Trin. and Tob.**	19060.25
Byelarus	6331.14	**Indonesia**	88310.73	**Nicaragua**	292.60	**Tunisia**	67931.19
Cambodia	--	**Iran**	480228.61	**Niger**	356.53	**Turkey**	236217.77
Cameroon	4855.01	**Iraq**	--	**Nigeria**	218257.67	**Turkmenistan**	212.63
Canada	58.29	**Ireland**	--	**North Korea**	2382.66	**Uganda**	6.05
Central Af. R.	0.00	**Israel**	0.00	**Norway**	58.24	**Ukraine**	23739.77
Chad	203.79	**Italy**	--	**Oman**	--	**United Ar. Em.**	137378.49
Chile	37241.22	**Ivory Coast**	1474.40	**Pakistan**	11091.52	**United King.**	--
China	2096731.55	**Jamaica**	15736.64	**Panama**	43976.07	**United States**	23385.16
Colombia	37414.36	**Japan**	101.31	**Papua N.G.**	288.08	**Uruguay**	11525.63
Congo	--	**Jordan**	119897.02	**Paraguay**	2509.55	**Uzbekistan**	121.02
Costa Rica	11103.16	**Kazakhstan**	--	**Peru**	4388.27	**Venezuela**	602347.63
Croatia	1649.37	**Kenya**	2214.78	**Philippines**	105641.32	**Vietnam**	3272.79
Cuba	39953.99	**Kuwait**	135805.16	**Poland**	2451.70	**Zaire**	--
Czech Rep.	11.75	**Kyrgyzstan**	--	**Portugal**	--	**Zambia**	97.96
Denmark	--	**Laos**	--	**Romania**	15021.65	**Zimbabwe**	16872.89
Dom. Rep.	11944.58	**Latvia**	214.94	**Russia**	817386.43		
Ecuador	6197.71	**Lebanon**	71790.14	**Rwanda**	--		

Variable: CITES

Name: Percent of CITES reporting requirements met

Units: Percent of Requirements Met **Reference Year:** 2000

Source Convention on International Trade in Endangered Species of Wild Fauna and Flora, Report on National Reports Required Under Article VIII, Paragraph 7(a), of the Convention, Eleventh Meeting of the Conference of the Parties, Gigiri, Kenya, April 2000, available at http://www.unep-wcmc.org/CITES/eng/cop/11/docs/19.pdf

Logic: Preparing and submitting national reports is a fundamental responsibility under CITES. The degree to which a country fulfills this responsibility is an indication of how seriously it takes its commitment to protection of endangered species.

Methodology: Countries that have not ratified the CITES convention are recorded as having zero percent of their requirements met.

Mean	56.99	**Max**	100	**97.5 percentile cut-off value:**	100
Median	69.8	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.00	**Egypt**	19.00	**Liberia**	44.40	**Saudi Arabia**	0.00
Algeria	60.00	**El Salvador**	33.30	**Libya**	0.00	**Senegal**	81.80
Angola	0.00	**Estonia**	85.70	**Lithuania**	0.00	**Sierra Leone**	25.00
Argentina	88.90	**Ethiopia**	90.00	**Macedonia**	0.00	**Slovakia**	100.00
Armenia	0.00	**Finland**	82.60	**Madagascar**	87.50	**Slovenia**	0.00
Australia	100.00	**France**	100.00	**Malawi**	77.80	**Somalia**	7.70
Austria	100.00	**Gabon**	70.00	**Malaysia**	85.70	**South Africa**	95.80
Azerbaijan	0.00	**Gambia**	40.90	**Mali**	100.00	**South Korea**	100.00
Bangladesh	70.60	**Germany**	100.00	**Mauritania**	0.00	**Spain**	100.00
Belgium	100.00	**Ghana**	87.00	**Mexico**	87.50	**Sri Lanka**	70.00
Benin	26.70	**Greece**	100.00	**Moldova**	0.00	**Sudan**	56.30
Bhutan	0.00	**Guatemala**	89.50	**Mongolia**	100.00	**Sweden**	100.00
Bolivia	60.00	**Guinea**	0.00	**Morocco**	60.90	**Switzerland**	100.00
Bosnia and H.	0.00	**Guinea-Bissau**	55.60	**Mozambique**	77.80	**Syria**	0.00
Botswana	90.50	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	0.00
Brazil	54.20	**Honduras**	21.40	**Namibia**	87.50	**Tanzania**	84.20
Bulgaria	62.50	**Hungary**	85.70	**Nepal**	75.00	**Thailand**	68.80
Burkina Faso	55.60	**Iceland**	0.00	**Netherlands**	100.00	**Togo**	75.00
Burundi	27.30	**India**	100.00	**New Zealand**	100.00	**Trin. and Tob.**	66.70
Byelarus	50.00	**Indonesia**	95.00	**Nicaragua**	90.90	**Tunisia**	100.00
Cambodia	0.00	**Iran**	69.60	**Niger**	50.00	**Turkey**	66.70
Cameroon	72.20	**Iraq**	0.00	**Nigeria**	45.80	**Turkmenistan**	0.00
Canada	95.80	**Ireland**	0.00	**North Korea**	0.00	**Uganda**	50.00
Central Af. R.	47.40	**Israel**	52.60	**Norway**	87.00	**Ukraine**	0.00
Chad	50.00	**Italy**	100.00	**Oman**	0.00	**United Ar. Em.**	66.70
Chile	75.00	**Ivory Coast**	0.00	**Pakistan**	78.30	**United King.**	100.00
China	100.00	**Jamaica**	50.00	**Panama**	81.00	**United States**	87.50
Colombia	83.30	**Japan**	89.50	**Papua N.G.**	73.90	**Uruguay**	62.50
Congo	87.50	**Jordan**	35.00	**Paraguay**	68.20	**Uzbekistan**	50.00
Costa Rica	83.30	**Kazakhstan**	0.00	**Peru**	75.00	**Venezuela**	76.20
Croatia	0.00	**Kenya**	65.00	**Philippines**	83.30	**Vietnam**	40.00
Cuba	88.90	**Kuwait**	0.00	**Poland**	88.90	**Zaire**	73.90
Czech Rep.	100.00	**Kyrgyzstan**	0.00	**Portugal**	72.20	**Zambia**	72.20
Denmark	95.50	**Laos**	0.00	**Romania**	40.00	**Zimbabwe**	88.90
Dom. Rep.	100.00	**Latvia**	100.00	**Russia**	78.30		
Ecuador	70.80	**Lebanon**	0.00	**Rwanda**	16.70		

Variable: CIVLIB

Name: Civil and political liberties

Units: Index Ranging from 1 (High Levels of Liberties) to 7 (Low **Reference Year:** 2001

Source Freedom House, Freedom in the World 2000-2001, New York: Freedom House, 2001, http://www.freedomhouse.org/, accessed 26 October 2001.

Logic: In countries that guarantee freedom of expression, rights to organize, rule of law, economic rights, and multi-party elections, there is more likely to be a vigorous public debate about values and issues relevant to environmental quality, and legal safeguards that encourage innovation.

Methodology: This is the average of two indicators - civil liberties and political liberties.

Mean	3.7	**Max**	7	**97.5 percentile cut-off value:**	7
Median	3.5	**Min**	1	**2.5 percentile cut-off value:**	1

Albania	4.50	**Egypt**	5.50	**Liberia**	5.50	**Saudi Arabia**	7.00
Algeria	5.50	**El Salvador**	2.50	**Libya**	7.00	**Senegal**	3.50
Angola	--	**Estonia**	1.50	**Lithuania**	1.50	**Sierra Leone**	4.50
Argentina	1.50	**Ethiopia**	5.00	**Macedonia**	3.50	**Slovakia**	1.50
Armenia	4.00	**Finland**	1.00	**Madagascar**	3.00	**Slovenia**	1.50
Australia	1.00	**France**	1.50	**Malawi**	3.00	**Somalia**	6.50
Austria	1.00	**Gabon**	4.50	**Malaysia**	5.00	**South Africa**	1.50
Azerbaijan	5.50	**Gambia**	6.00	**Mali**	2.50	**South Korea**	2.00
Bangladesh	3.50	**Germany**	1.50	**Mauritania**	5.50	**Spain**	1.50
Belgium	1.50	**Ghana**	2.50	**Mexico**	2.50	**Sri Lanka**	3.50
Benin	2.00	**Greece**	2.00	**Moldova**	3.00	**Sudan**	7.00
Bhutan	6.50	**Guatemala**	3.50	**Mongolia**	2.50	**Sweden**	1.00
Bolivia	2.00	**Guinea**	5.50	**Morocco**	4.50	**Switzerland**	1.00
Bosnia and H.	4.50	**Guinea-Bissau**	4.50	**Mozambique**	3.50	**Syria**	7.00
Botswana	2.00	**Haiti**	5.50	**Myanmar**	7.00	**Tajikistan**	6.00
Brazil	3.00	**Honduras**	3.00	**Namibia**	2.50	**Tanzania**	4.00
Bulgaria	2.50	**Hungary**	1.50	**Nepal**	3.50	**Thailand**	2.50
Burkina Faso	4.00	**Iceland**	1.00	**Netherlands**	1.00	**Togo**	5.00
Burundi	6.00	**India**	2.50	**New Zealand**	1.00	**Trin. and Tob.**	2.00
Byelarus	6.00	**Indonesia**	3.50	**Nicaragua**	3.00	**Tunisia**	5.50
Cambodia	6.00	**Iran**	6.00	**Niger**	4.00	**Turkey**	4.50
Cameroon	6.50	**Iraq**	7.00	**Nigeria**	4.00	**Turkmenistan**	7.00
Canada	1.00	**Ireland**	1.00	**North Korea**	7.00	**Uganda**	5.50
Central Af. R.	3.50	**Israel**	2.00	**Norway**	1.00	**Ukraine**	4.00
Chad	5.50	**Italy**	1.50	**Oman**	5.50	**United Ar. Em.**	5.50
Chile	2.00	**Ivory Coast**	5.50	**Pakistan**	5.50	**United King.**	1.50
China	6.50	**Jamaica**	2.00	**Panama**	1.50	**United States**	1.00
Colombia	4.00	**Japan**	1.50	**Papua N.G.**	2.50	**Uruguay**	1.00
Congo	5.00	**Jordan**	4.00	**Paraguay**	3.50	**Uzbekistan**	6.50
Costa Rica	1.50	**Kazakhstan**	5.50	**Peru**	3.50	**Venezuela**	4.00
Croatia	2.50	**Kenya**	5.50	**Philippines**	2.50	**Vietnam**	6.50
Cuba	7.00	**Kuwait**	4.50	**Poland**	1.50	**Zaire**	6.50
Czech Rep.	1.50	**Kyrgyzstan**	5.50	**Portugal**	1.00	**Zambia**	4.50
Denmark	1.00	**Laos**	6.50	**Romania**	2.00	**Zimbabwe**	5.50
Dom. Rep.	2.00	**Latvia**	1.50	**Russia**	5.00		
Ecuador	3.00	**Lebanon**	5.50	**Rwanda**	6.50		

Variable: CO2GDP

Name: Carbon economic efficiency (CO_2 emissions per dollar GDP)

Units: Metric Tons/US Dollar GDP **Reference Year:** 1998

Source Carbon Dioxide Information Analysis Center at http://cdiac.esd.ornl.gov/pns/pns_main.html

Logic: Emissions of carbon dioxide are not immediately harmful to any given country, but contribute to global climate change. Every country emits some carbon dioxide. However, the amount of emissions per unit economic activity varies widely, with some countries being far more efficient than others.

Methodology:

Mean	1.52	**Max**	6.29	**97.5 percentile cut-off value:**	5.72
Median	1.125	**Min**	0	**2.5 percentile cut-off value:**	0.09

Albania	0.44	**Egypt**	1.45	**Liberia**	[0.99]	**Saudi Arabia**	3.60
Algeria	2.02	**El Salvador**	0.65	**Libya**	2.78	**Senegal**	0.73
Angola	0.54	**Estonia**	3.89	**Lithuania**	1.68	**Sierra Leone**	0.60
Argentina	0.82	**Ethiopia**	0.15	**Macedonia**	3.74	**Slovakia**	1.89
Armenia	1.11	**Finland**	1.28	**Madagascar**	0.30	**Slovenia**	1.33
Australia	2.07	**France**	0.78	**Malawi**	0.36	**Somalia**	0.00
Austria	0.90	**Gabon**	1.01	**Malaysia**	1.92	**South Africa**	2.56
Azerbaijan	5.94	**Gambia**	0.34	**Mali**	0.18	**South Korea**	1.51
Bangladesh	0.36	**Germany**	1.19	**Mauritania**	2.00	**Spain**	1.00
Belgium	1.10	**Ghana**	0.36	**Mexico**	1.33	**Sri Lanka**	0.38
Benin	0.37	**Greece**	1.51	**Moldova**	2.91	**Sudan**	0.25
Bhutan	1.09	**Guatemala**	0.68	**Mongolia**	5.45	**Sweden**	0.70
Bolivia	1.76	**Guinea**	0.25	**Morocco**	0.91	**Switzerland**	0.61
Bosnia and H.	[2.04]	**Guinea-Bissau**	0.86	**Mozambique**	0.28	**Syria**	2.68
Botswana	1.02	**Haiti**	0.31	**Myanmar**	0.42	**Tajikistan**	2.33
Brazil	0.71	**Honduras**	0.93	**Namibia**	0.00	**Tanzania**	0.39
Bulgaria	3.15	**Hungary**	1.47	**Nepal**	0.30	**Thailand**	1.50
Burkina Faso	0.28	**Iceland**	0.78	**Netherlands**	1.23	**Togo**	0.39
Burundi	0.16	**India**	1.39	**New Zealand**	1.19	**Trin. and Tob.**	6.29
Byelarus	2.51	**Indonesia**	1.11	**Nicaragua**	0.91	**Tunisia**	1.17
Cambodia	0.12	**Iran**	2.36	**Niger**	0.39	**Turkey**	1.31
Cameroon	0.22	**Iraq**	3.23	**Nigeria**	2.12	**Turkmenistan**	5.67
Canada	1.69	**Ireland**	1.23	**North Korea**	[4.72]	**Uganda**	0.15
Central Af. R.	0.17	**Israel**	1.51	**Norway**	0.74	**Ukraine**	5.69
Chad	0.05	**Italy**	0.91	**Oman**	2.33	**United Ar. Em.**	4.92
Chile	1.26	**Ivory Coast**	1.46	**Pakistan**	1.14	**United King.**	1.17
China	2.03	**Jamaica**	3.29	**Panama**	1.02	**United States**	1.77
Colombia	0.75	**Japan**	1.00	**Papua N.G.**	0.60	**Uruguay**	0.53
Congo	2.50	**Jordan**	2.16	**Paraguay**	0.54	**Uzbekistan**	5.75
Costa Rica	0.51	**Kazakhstan**	4.78	**Peru**	0.67	**Venezuela**	3.04
Croatia	1.67	**Kenya**	0.85	**Philippines**	0.77	**Vietnam**	0.88
Cuba	1.54	**Kuwait**	2.92	**Poland**	2.84	**Zaire**	0.18
Czech Rep.	2.43	**Kyrgyzstan**	1.49	**Portugal**	0.97	**Zambia**	0.58
Denmark	1.08	**Laos**	0.14	**Romania**	1.81	**Zimbabwe**	1.14
Dom. Rep.	1.31	**Latvia**	1.45	**Russia**	3.84		
Ecuador	1.85	**Lebanon**	2.45	**Rwanda**	0.21		

Variable: CO2PC

Name: Carbon lifestyle efficiency (CO_2 emissions per capita)

Units: Metric Tons of Carbon per Person **Reference Year:** 1998

Source Carbon Dioxide Information Analysis Center at http://cdiac.esd.ornl.gov/pns/pns_main.html

Logic: Emissions of carbon dioxide are not immediately harmful to any given country, but contribute to the global problem. Every country emits some carbon dioxide, but the amount per person varies widely, with some countries having much lower per capita emissions than others.

Methodology:

Mean	1.15	**Max**	10.23	**97.5 percentile cut-off value:**	5.11
Median	0.61	**Min**	0	**2.5 percentile cut-off value:**	0.01

Albania	0.14	**Egypt**	0.44	**Liberia**	0.04	**Saudi Arabia**	3.83
Algeria	0.97	**El Salvador**	0.27	**Libya**	1.86	**Senegal**	0.10
Angola	0.13	**Estonia**	3.25	**Lithuania**	1.15	**Sierra Leone**	0.03
Argentina	1.03	**Ethiopia**	0.01	**Macedonia**	1.69	**Slovakia**	1.93
Armenia	0.26	**Finland**	2.82	**Madagascar**	0.02	**Slovenia**	2.00
Australia	4.88	**France**	1.72	**Malawi**	0.02	**Somalia**	0.00
Austria	2.14	**Gabon**	0.66	**Malaysia**	1.54	**South Africa**	2.38
Azerbaijan	1.38	**Gambia**	0.05	**Mali**	0.01	**South Korea**	2.15
Bangladesh	0.05	**Germany**	2.75	**Mauritania**	0.31	**Spain**	1.70
Belgium	2.73	**Ghana**	0.06	**Mexico**	1.07	**Sri Lanka**	0.12
Benin	0.03	**Greece**	2.19	**Moldova**	0.60	**Sudan**	0.03
Bhutan	0.05	**Guatemala**	0.24	**Mongolia**	0.82	**Sweden**	1.50
Bolivia	0.41	**Guinea**	0.05	**Morocco**	0.32	**Switzerland**	1.56
Bosnia and H.	0.35	**Guinea-Bissau**	0.05	**Mozambique**	0.02	**Syria**	0.90
Botswana	0.66	**Haiti**	0.04	**Myanmar**	0.05	**Tajikistan**	0.23
Brazil	0.49	**Honduras**	0.23	**Namibia**	0.00	**Tanzania**	0.02
Bulgaria	1.55	**Hungary**	1.58	**Nepal**	0.04	**Thailand**	0.87
Burkina Faso	0.02	**Iceland**	2.06	**Netherlands**	2.85	**Togo**	0.05
Burundi	0.01	**India**	0.29	**New Zealand**	2.16	**Trin. and Tob.**	4.76
Byelarus	1.60	**Indonesia**	0.31	**Nicaragua**	0.19	**Tunisia**	0.65
Cambodia	0.02	**Iran**	1.20	**Niger**	0.03	**Turkey**	0.86
Cameroon	0.03	**Iraq**	1.03	**Nigeria**	0.20	**Turkmenistan**	1.76
Canada	4.17	**Ireland**	2.84	**North Korea**	2.64	**Uganda**	0.02
Central Af. R.	0.02	**Israel**	2.75	**Norway**	2.07	**Ukraine**	1.90
Chad	0.00	**Italy**	1.97	**Oman**	2.32	**United Ar. Em.**	10.23
Chile	1.11	**Ivory Coast**	0.25	**Pakistan**	0.18	**United King.**	2.51
China	0.68	**Jamaica**	1.18	**Panama**	0.57	**United States**	5.43
Colombia	0.45	**Japan**	2.45	**Papua N.G.**	0.14	**Uruguay**	0.49
Congo	0.18	**Jordan**	0.60	**Paraguay**	0.24	**Uzbekistan**	1.26
Costa Rica	0.36	**Kazakhstan**	2.06	**Peru**	0.31	**Venezuela**	1.82
Croatia	1.21	**Kenya**	0.09	**Philippines**	0.28	**Vietnam**	0.15
Cuba	0.62	**Kuwait**	7.40	**Poland**	2.27	**Zaire**	0.01
Czech Rep.	3.14	**Kyrgyzstan**	0.38	**Portugal**	1.51	**Zambia**	0.05
Denmark	2.76	**Laos**	0.02	**Romania**	1.12	**Zimbabwe**	0.34
Dom. Rep.	0.67	**Latvia**	0.88	**Russia**	2.66		
Ecuador	0.59	**Lebanon**	1.40	**Rwanda**	0.02		

Variable: COALKM

Name: Coal consumption per populated land area

Units: Billion Btu/Populated Land Area **Reference Year:** 1999

Source US Energy Information Agency, available at http://www.eia.doe.gov/emeu/international/contents.html

Logic: Coal fired power plants emit higher levels of SO_2 and other air pollutants than natural gas or oil fired plants, and the energy produced is more carbon-intensive.

Methodology: Air pollution is generally greatest in densely populated areas. To take this into account, we used the Gridded Population of the World dataset available from CIESIN and calculated the total land area in each country inhabited with a population density of greater than 5 persons per sq. km. We then utilized this land area as the denominator for the coal consumption data.

Mean	1.2	**Max**	14.53	**97.5 percentile cut-off value:**	9.46
Median	0.03	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.02	**Egypt**	0.51	**Liberia**	0.00	**Saudi Arabia**	0.00
Algeria	0.05	**El Salvador**	0.00	**Libya**	0.00	**Senegal**	0.00
Angola	0.00	**Estonia**	0.43	**Lithuania**	0.09	**Sierra Leone**	0.00
Argentina	0.03	**Ethiopia**	0.00	**Macedonia**	2.56	**Slovakia**	2.83
Armenia	0.00	**Finland**	0.95	**Madagascar**	0.00	**Slovenia**	2.57
Australia	8.97	**France**	1.10	**Malawi**	0.02	**Somalia**	0.00
Austria	1.55	**Gabon**	0.00	**Malaysia**	0.13	**South Africa**	5.39
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.00	**South Korea**	14.53
Bangladesh	0.03	**Germany**	9.30	**Mauritania**	0.00	**Spain**	1.49
Belgium	9.68	**Ghana**	0.00	**Mexico**	0.18	**Sri Lanka**	0.00
Benin	0.00	**Greece**	2.86	**Moldova**	0.32	**Sudan**	0.00
Bhutan	0.01	**Guatemala**	0.00	**Mongolia**	0.59	**Sweden**	0.40
Bolivia	0.00	**Guinea**	0.00	**Morocco**	0.30	**Switzerland**	0.09
Bosnia and H.	0.31	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	0.00
Botswana	0.55	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	0.03
Brazil	0.17	**Honduras**	0.02	**Namibia**	0.00	**Tanzania**	0.00
Bulgaria	2.78	**Hungary**	1.69	**Nepal**	0.06	**Thailand**	0.52
Burkina Faso	0.00	**Iceland**	1.62	**Netherlands**	8.88	**Togo**	0.00
Burundi	0.00	**India**	2.11	**New Zealand**	0.43	**Trin. and Tob.**	0.00
Byelarus	0.09	**Indonesia**	0.18	**Nicaragua**	0.00	**Tunisia**	0.00
Cambodia	0.00	**Iran**	0.03	**Niger**	0.01	**Turkey**	1.08
Cameroon	0.00	**Iraq**	0.00	**Nigeria**	0.00	**Turkmenistan**	0.00
Canada	2.89	**Ireland**	0.97	**North Korea**	9.25	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	11.99	**Norway**	0.38	**Ukraine**	3.33
Chad	0.00	**Italy**	1.57	**Oman**	0.00	**United Ar. Em.**	0.00
Chile	0.57	**Ivory Coast**	0.00	**Pakistan**	0.12	**United King.**	6.46
China	3.39	**Jamaica**	0.17	**Panama**	0.03	**United States**	4.91
Colombia	0.16	**Japan**	8.80	**Papua N.G.**	0.00	**Uruguay**	0.00
Congo	0.00	**Jordan**	0.00	**Paraguay**	0.01	**Uzbekistan**	0.10
Costa Rica	0.00	**Kazakhstan**	0.35	**Peru**	0.02	**Venezuela**	0.00
Croatia	0.18	**Kenya**	0.01	**Philippines**	0.35	**Vietnam**	0.35
Cuba	0.00	**Kuwait**	0.00	**Poland**	8.22	**Zaire**	0.00
Czech Rep.	8.74	**Kyrgyzstan**	0.10	**Portugal**	1.72	**Zambia**	0.01
Denmark	4.69	**Laos**	0.00	**Romania**	1.26	**Zimbabwe**	0.32
Dom. Rep.	0.12	**Latvia**	0.04	**Russia**	1.04		
Ecuador	0.00	**Lebanon**	0.51	**Rwanda**	0.00		

Variable: DISINT

Name: Death rate from intestinal infectious diseases

Units: Deaths/100,000 Population **Reference Year:** MRYA 1990-1999

Source World Health Organisation. 1997-1999 World Health Statistics Annual. Geneva: WHO, 2000, available at http://www.who.int/whosis/mort/download.htm

Logic: Indicator of the degree to which the population is affected by poor sanitation and water quality, which are related to environmental conditions

Methodology: The final number is based on an aggregation of deaths recorded for WHO code B01 for all age groups by sex. These were then combined with UN Population Division population data for the country in that particular year. The death rates were standardized utilizing the age structure for the population of Canada. See page 22 of the 2001 ESI report for more details on the methodology.

Mean	15.45	**Max**	36.81	**97.5 percentile cut-off value:**	36.43
Median	13.345	**Min**	0	**2.5 percentile cut-off value:**	0.12

Albania	0.33	**Egypt**	19.65	**Liberia**	[36.43]	**Saudi Arabia**	[11.28]
Algeria	[13.74]	**El Salvador**	36.17	**Libya**	[8.79]	**Senegal**	[30.1]
Angola	[36.43]	**Estonia**	0.31	**Lithuania**	0.34	**Sierra Leone**	[36.43]
Argentina	1.95	**Ethiopia**	[35.86]	**Macedonia**	[1.46]	**Slovakia**	0.24
Armenia	3.15	**Finland**	0.97	**Madagascar**	[35.85]	**Slovenia**	0.29
Australia	0.62	**France**	0.97	**Malawi**	[35.19]	**Somalia**	[36.24]
Austria	0.13	**Gabon**	[32.39]	**Malaysia**	[15.96]	**South Africa**	24.99
Azerbaijan	5.05	**Gambia**	[27.55]	**Mali**	[36.18]	**South Korea**	2.62
Bangladesh	[25.2]	**Germany**	0.34	**Mauritania**	[35.65]	**Spain**	0.56
Belgium	0.84	**Ghana**	[23.99]	**Mexico**	18.48	**Sri Lanka**	[15.31]
Benin	[31.38]	**Greece**	0.00	**Moldova**	1.04	**Sudan**	[35.8]
Bhutan	[6.16]	**Guatemala**	[23.35]	**Mongolia**	2.06	**Sweden**	0.39
Bolivia	[17.42]	**Guinea**	[35.81]	**Morocco**	[15.49]	**Switzerland**	[2.97]
Bosnia and H.	[6.81]	**Guinea-Bissau**	[36.14]	**Mozambique**	[33.47]	**Syria**	[12.91]
Botswana	[20.72]	**Haiti**	[31.97]	**Myanmar**	[28.31]	**Tajikistan**	36.81
Brazil	[14.43]	**Honduras**	[7.96]	**Namibia**	[21.54]	**Tanzania**	[30.75]
Bulgaria	0.56	**Hungary**	0.25	**Nepal**	[33.02]	**Thailand**	[12.95]
Burkina Faso	[35.57]	**Iceland**	1.11	**Netherlands**	0.28	**Togo**	[36.05]
Burundi	[36.25]	**India**	[24.25]	**New Zealand**	0.51	**Trin. and Tob.**	4.97
Byelarus	0.43	**Indonesia**	[15.69]	**Nicaragua**	24.07	**Tunisia**	[7.69]
Cambodia	[32.31]	**Iran**	[15.7]	**Niger**	[36.43]	**Turkey**	[15.51]
Cameroon	[34.55]	**Iraq**	[33.31]	**Nigeria**	[33.72]	**Turkmenistan**	23.34
Canada	0.30	**Ireland**	0.57	**North Korea**	[4.21]	**Uganda**	[34.06]
Central Af. R.	[33.51]	**Israel**	0.45	**Norway**	1.33	**Ukraine**	0.54
Chad	[36.19]	**Italy**	0.12	**Oman**	[5.68]	**United Ar. Em.**	[3.31]
Chile	3.21	**Ivory Coast**	[33.92]	**Pakistan**	[35.15]	**United King.**	0.75
China	[5.08]	**Jamaica**	[14.43]	**Panama**	[5.14]	**United States**	[7.35]
Colombia	6.42	**Japan**	0.88	**Papua N.G.**	[18.54]	**Uruguay**	4.30
Congo	[8.34]	**Jordan**	[14.88]	**Paraguay**	16.00	**Uzbekistan**	9.58
Costa Rica	9.28	**Kazakhstan**	3.24	**Peru**	[22.25]	**Venezuela**	20.16
Croatia	0.38	**Kenya**	[32.26]	**Philippines**	13.78	**Vietnam**	[2.15]
Cuba	9.51	**Kuwait**	0.26	**Poland**	0.11	**Zaire**	[36.05]
Czech Rep.	0.43	**Kyrgyzstan**	8.28	**Portugal**	0.17	**Zambia**	[34.88]
Denmark	[7.86]	**Laos**	[28.81]	**Romania**	1.08	**Zimbabwe**	19.43
Dom. Rep.	[14.65]	**Latvia**	0.23	**Russia**	0.90		
Ecuador	14.28	**Lebanon**	[12.84]	**Rwanda**	[36.06]		

Variable: DISRES

Name: Child death rate from respiratory diseases

Units: Deaths/100,000 Population Aged 0-14 **Reference Year:** MRYA 1990-1998

Source World Health Organisation. 1997-1999 World Health Statistics Annual. Geneva: WHO, 2000, available at http://www.who.int/whosis/mort/download.htm

Logic: Indicator of the degree to which children are impacted by poor air quality.

Methodology: The final number is based on an aggregation of deaths recorded for WHO codes B31 and B320, and B321, by sex and by age. These were then combined with UN Population Division population data broken down by age group to produce rates. See page 22 of the 2001 ESI report for more details on the methodology.

Mean	77	**Max**	251.62	**97.5 percentile cut-off value:**	222.27
Median	48.63	**Min**	0.24	**2.5 percentile cut-off value:**	0.47

Albania	40.92	**Egypt**	120.86	**Liberia**	[199.62]	**Saudi Arabia**	[36.42]
Algeria	[120.26]	**El Salvador**	17.69	**Libya**	[96.87]	**Senegal**	[121.23]
Angola	[221.92]	**Estonia**	5.12	**Lithuania**	3.11	**Sierra Leone**	[215.9]
Argentina	10.34	**Ethiopia**	[221.53]	**Macedonia**	[68.08]	**Slovakia**	10.63
Armenia	[42.14]	**Finland**	0.41	**Madagascar**	[161.86]	**Slovenia**	1.39
Australia	1.37	**France**	0.78	**Malawi**	[213.72]	**Somalia**	[209.11]
Austria	0.28	**Gabon**	[202.51]	**Malaysia**	[3.8]	**South Africa**	19.57
Azerbaijan	[50.96]	**Gambia**	[68.22]	**Mali**	[223.16]	**South Korea**	2.55
Bangladesh	[111.5]	**Germany**	0.51	**Mauritania**	[222.75]	**Spain**	0.64
Belgium	0.94	**Ghana**	[130.52]	**Mexico**	27.97	**Sri Lanka**	[47.2]
Benin	[180.36]	**Greece**	1.63	**Moldova**	33.59	**Sudan**	[117.08]
Bhutan	[114.36]	**Guatemala**	[63.95]	**Mongolia**	179.57	**Sweden**	1.03
Bolivia	[93.6]	**Guinea**	[182.11]	**Morocco**	[72.73]	**Switzerland**	[1.93]
Bosnia and H.	[60.45]	**Guinea-Bissau**	[208.4]	**Mozambique**	[190]	**Syria**	[42.55]
Botswana	[103.43]	**Haiti**	[98.13]	**Myanmar**	[169]	**Tajikistan**	[123.09]
Brazil	[28.63]	**Honduras**	[59.24]	**Namibia**	[56.51]	**Tanzania**	[148.89]
Bulgaria	19.52	**Hungary**	4.04	**Nepal**	[132.62]	**Thailand**	[14.48]
Burkina Faso	[195.77]	**Iceland**	3.07	**Netherlands**	0.88	**Togo**	[145.58]
Burundi	[161.39]	**India**	[83.54]	**New Zealand**	1.75	**Trin. and Tob.**	6.38
Byelarus	[73.65]	**Indonesia**	[70.56]	**Nicaragua**	26.20	**Tunisia**	[61.47]
Cambodia	[129.74]	**Iran**	[36.84]	**Niger**	[216.55]	**Turkey**	[42.77]
Cameroon	[191.62]	**Iraq**	[161.79]	**Nigeria**	[198.83]	**Turkmenistan**	251.62
Canada	0.62	**Ireland**	1.43	**North Korea**	[45.97]	**Uganda**	[122.21]
Central Af. R.	[170.89]	**Israel**	1.45	**Norway**	0.24	**Ukraine**	[26.05]
Chad	[210.08]	**Italy**	0.70	**Oman**	[30.92]	**United Ar. Em.**	[39.53]
Chile	11.86	**Ivory Coast**	[204.09]	**Pakistan**	[69.75]	**United King.**	1.78
China	[62.56]	**Jamaica**	[34.07]	**Panama**	[48.82]	**United States**	[40.43]
Colombia	12.73	**Japan**	1.52	**Papua N.G.**	[147.17]	**Uruguay**	11.00
Congo	[109.12]	**Jordan**	[56.45]	**Paraguay**	20.03	**Uzbekistan**	[131.06]
Costa Rica	6.35	**Kazakhstan**	46.00	**Peru**	[66.26]	**Venezuela**	19.07
Croatia	2.77	**Kenya**	[130.66]	**Philippines**	46.49	**Vietnam**	[30.24]
Cuba	5.11	**Kuwait**	3.53	**Poland**	2.67	**Zaire**	[190.89]
Czech Rep.	2.35	**Kyrgyzstan**	[126.21]	**Portugal**	1.87	**Zambia**	[200.12]
Denmark	[15.14]	**Laos**	[120.75]	**Romania**	48.44	**Zimbabwe**	44.52
Dom. Rep.	[35.77]	**Latvia**	[69.04]	**Russia**	[31.35]		
Ecuador	32.80	**Lebanon**	[68.43]	**Rwanda**	[158.85]		

Variable: DJSGI

Name: Dow Jones Sustainability Group Index: percent of eligible companies in index

Units: Percentage **Reference Year:** 2000

Source "Assessment of the Country Allocation of the Dow Jones Sustainability Group Index", SAM Sustainability Group

Logic: The Dow Jones Sustainability Group Index tracks a group of companies that have been rated as the top 10% in terms of sustainability. Firms that are already in the Dow Jones Global Index are eligible to enter the Sustainability Group Index. Countries in which a higher percentage of eligible firms meet the requirements have a private sector that is contributing more strongly to environmental sustainability.

Methodology: For each country, the number of companies in the Sustainability Index was divided by the number of companies in the Global Index.

Mean	24.7	**Max**	84.9	**97.5 percentile cut-off value:**	84.9
Median	17.9	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	--	**Egypt**	--	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	--	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	--	**Lithuania**	--	**Sierra Leone**	--
Argentina	--	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	--
Armenia	--	**Finland**	84.90	**Madagascar**	--	**Slovenia**	--
Australia	20.80	**France**	23.40	**Malawi**	--	**Somalia**	--
Austria	0.00	**Gabon**	--	**Malaysia**	5.20	**South Africa**	17.70
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	0.00
Bangladesh	--	**Germany**	75.20	**Mauritania**	--	**Spain**	63.40
Belgium	32.80	**Ghana**	--	**Mexico**	0.00	**Sri Lanka**	--
Benin	--	**Greece**	0.40	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	--	**Mongolia**	--	**Sweden**	56.60
Bolivia	--	**Guinea**	--	**Morocco**	--	**Switzerland**	82.40
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	5.90	**Honduras**	--	**Namibia**	--	**Tanzania**	--
Bulgaria	--	**Hungary**	--	**Nepal**	--	**Thailand**	0.00
Burkina Faso	--	**Iceland**	--	**Netherlands**	64.50	**Togo**	--
Burundi	--	**India**	--	**New Zealand**	0.00	**Trin. and Tob.**	--
Byelarus	--	**Indonesia**	0.00	**Nicaragua**	--	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	--
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	19.00	**Ireland**	30.20	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	--	**Norway**	33.10	**Ukraine**	--
Chad	--	**Italy**	4.80	**Oman**	--	**United Ar. Em.**	--
Chile	3.70	**Ivory Coast**	--	**Pakistan**	--	**United King.**	68.00
China	--	**Jamaica**	--	**Panama**	--	**United States**	19.80
Colombia	--	**Japan**	17.90	**Papua N.G.**	--	**Uruguay**	--
Congo	--	**Jordan**	--	**Paraguay**	--	**Uzbekistan**	--
Costa Rica	--	**Kazakhstan**	--	**Peru**	--	**Venezuela**	0.00
Croatia	--	**Kenya**	--	**Philippines**	0.00	**Vietnam**	--
Cuba	--	**Kuwait**	--	**Poland**	--	**Zaire**	--
Czech Rep.	--	**Kyrgyzstan**	--	**Portugal**	2.80	**Zambia**	--
Denmark	33.10	**Laos**	--	**Romania**	--	**Zimbabwe**	--
Dom. Rep.	--	**Latvia**	--	**Russia**	--		
Ecuador	--	**Lebanon**	--	**Rwanda**	--		

Variable: ECOVAL

Name: Average Innovest EcoValue rating of firms

Units: Ratings from 1 (Worst) to 7 (Best) **Reference Year:** 2001

Source Innovest Strategic Value Advisors

Logic: The Innnovest EcoValue '21 rating measures environmental performance at the firm level.

Methodology: Within each country, EcoValue levels were weighted by market capitization share and then averaged to get a value for the individual country, based on the location of company headquarters.

Mean	4.45	**Max**	6.77	**97.5 percentile cut-off value:**	6.77
Median	4.52	**Min**	1.46	**2.5 percentile cut-off value:**	1.46

Albania	--	**Egypt**	--	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	--	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	--	**Lithuania**	--	**Sierra Leone**	--
Argentina	--	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	--
Armenia	--	**Finland**	6.77	**Madagascar**	--	**Slovenia**	--
Australia	1.46	**France**	4.21	**Malawi**	--	**Somalia**	--
Austria	--	**Gabon**	--	**Malaysia**	--	**South Africa**	--
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	--
Bangladesh	--	**Germany**	5.06	**Mauritania**	--	**Spain**	2.25
Belgium	4.52	**Ghana**	--	**Mexico**	3.38	**Sri Lanka**	--
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	--	**Mongolia**	--	**Sweden**	5.67
Bolivia	--	**Guinea**	--	**Morocco**	--	**Switzerland**	5.75
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	--	**Honduras**	--	**Namibia**	--	**Tanzania**	--
Bulgaria	--	**Hungary**	--	**Nepal**	--	**Thailand**	--
Burkina Faso	--	**Iceland**	--	**Netherlands**	6.12	**Togo**	--
Burundi	--	**India**	--	**New Zealand**	--	**Trin. and Tob.**	--
Byelarus	--	**Indonesia**	--	**Nicaragua**	--	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	--
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	4.47	**Ireland**	3.11	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	3.00	**Norway**	6.14	**Ukraine**	--
Chad	--	**Italy**	2.78	**Oman**	--	**United Ar. Em.**	--
Chile	--	**Ivory Coast**	--	**Pakistan**	--	**United King.**	5.05
China	--	**Jamaica**	--	**Panama**	--	**United States**	4.61
Colombia	--	**Japan**	6.16	**Papua N.G.**	--	**Uruguay**	--
Congo	--	**Jordan**	--	**Paraguay**	--	**Uzbekistan**	--
Costa Rica	--	**Kazakhstan**	--	**Peru**	--	**Venezuela**	--
Croatia	--	**Kenya**	--	**Philippines**	--	**Vietnam**	--
Cuba	--	**Kuwait**	--	**Poland**	--	**Zaire**	--
Czech Rep.	--	**Kyrgyzstan**	--	**Portugal**	--	**Zambia**	--
Denmark	3.96	**Laos**	--	**Romania**	--	**Zimbabwe**	--
Dom. Rep.	--	**Latvia**	--	**Russia**	--		
Ecuador	--	**Lebanon**	--	**Rwanda**	--		

Variable: EFPC

Name: Ecological footprint per capita

Units: Hectares per Person **Reference Year:** 1996

Source World Wide Fund for Nature (WWF), Living Planet Report 2000, Gland, Switzerland: 2000, and Redefining Progress at http://www.rprogress.org/programs/sustainability/ef/

Logic: The ecological footprint is a measure of the biologically productive land that is required to sustain a country's population at current consumption levels.

Methodology:

Mean	3.11	**Max**	15.99	**97.5 percentile cut-off value:**	10.06
Median	2.08	**Min**	0.6	**2.5 percentile cut-off value:**	0.71

Albania	1.86	**Egypt**	1.70	**Liberia**	1.16	**Saudi Arabia**	6.15
Algeria	1.79	**El Salvador**	1.55	**Libya**	4.36	**Senegal**	1.06
Angola	0.82	**Estonia**	7.12	**Lithuania**	4.76	**Sierra Leone**	0.73
Argentina	3.79	**Ethiopia**	0.85	**Macedonia**	3.24	**Slovakia**	3.94
Armenia	1.16	**Finland**	8.45	**Madagascar**	0.93	**Slovenia**	5.40
Australia	8.49	**France**	7.27	**Malawi**	0.87	**Somalia**	0.97
Austria	5.45	**Gabon**	2.06	**Malaysia**	3.68	**South Africa**	4.04
Azerbaijan	2.18	**Gambia**	0.99	**Mali**	0.86	**South Korea**	5.60
Bangladesh	0.60	**Germany**	6.31	**Mauritania**	1.22	**Spain**	5.50
Belgium	5.88	**Ghana**	1.12	**Mexico**	2.69	**Sri Lanka**	0.95
Benin	0.97	**Greece**	5.58	**Moldova**	2.47	**Sudan**	1.14
Bhutan	0.79	**Guatemala**	1.40	**Mongolia**	4.30	**Sweden**	7.53
Bolivia	1.29	**Guinea**	0.85	**Morocco**	1.56	**Switzerland**	6.63
Bosnia and H.	1.29	**Guinea-Bissau**	0.80	**Mozambique**	0.76	**Syria**	2.56
Botswana	1.68	**Haiti**	0.78	**Myanmar**	1.07	**Tajikistan**	0.90
Brazil	2.60	**Honduras**	1.43	**Namibia**	0.66	**Tanzania**	1.02
Bulgaria	3.81	**Hungary**	5.01	**Nepal**	1.01	**Thailand**	2.70
Burkina Faso	0.90	**Iceland**	[6.02]	**Netherlands**	5.75	**Togo**	0.82
Burundi	0.75	**India**	1.06	**New Zealand**	9.54	**Trin. and Tob.**	2.43
Byelarus	5.27	**Indonesia**	1.48	**Nicaragua**	1.26	**Tunisia**	2.27
Cambodia	0.83	**Iran**	2.47	**Niger**	0.97	**Turkey**	2.73
Cameroon	0.89	**Iraq**	1.73	**Nigeria**	1.31	**Turkmenistan**	3.62
Canada	7.66	**Ireland**	9.43	**North Korea**	1.92	**Uganda**	0.88
Central Af. R.	1.12	**Israel**	5.40	**Norway**	6.13	**Ukraine**	4.76
Chad	0.75	**Italy**	5.51	**Oman**	3.39	**United Ar. Em.**	15.99
Chile	3.39	**Ivory Coast**	0.95	**Pakistan**	1.09	**United King.**	6.29
China	1.84	**Jamaica**	2.68	**Panama**	2.35	**United States**	12.22
Colombia	1.90	**Japan**	5.94	**Papua N.G.**	1.40	**Uruguay**	4.91
Congo	1.15	**Jordan**	1.71	**Paraguay**	2.84	**Uzbekistan**	2.65
Costa Rica	2.77	**Kazakhstan**	4.45	**Peru**	1.33	**Venezuela**	2.88
Croatia	2.35	**Kenya**	1.15	**Philippines**	1.42	**Vietnam**	0.95
Cuba	2.10	**Kuwait**	10.31	**Poland**	5.40	**Zaire**	0.69
Czech Rep.	6.30	**Kyrgyzstan**	1.87	**Portugal**	4.99	**Zambia**	1.21
Denmark	9.88	**Laos**	0.91	**Romania**	3.49	**Zimbabwe**	1.45
Dom. Rep.	1.37	**Latvia**	3.74	**Russia**	5.36		
Ecuador	2.26	**Lebanon**	3.19	**Rwanda**	0.90		

Variable: EIA
Name: Number of sectoral EIA guidelines
Units: Number of Guidelines **Reference Year:** 1998
Source IIED, WRI and IUCN, A Directory of Impact Assessment Guidelines (Second Edition). London: IIED, 1998.
Logic: Environmental Impact Assessment guidelines mandated by national governments are an important prerequisite for sound environmental management.

Methodology:

Mean	4.46	**Max**	13	**97.5 percentile cut-off value:**	12.1
Median	3	**Min**	1	**2.5 percentile cut-off value:**	1

Albania	--	**Egypt**	11.00	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	--	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	--	**Lithuania**	--	**Sierra Leone**	--
Argentina	6.00	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	8.00
Armenia	--	**Finland**	5.00	**Madagascar**	--	**Slovenia**	--
Australia	1.00	**France**	7.00	**Malawi**	2.00	**Somalia**	--
Austria	1.00	**Gabon**	--	**Malaysia**	13.00	**South Africa**	8.00
Azerbaijan	--	**Gambia**	8.00	**Mali**	--	**South Korea**	--
Bangladesh	3.00	**Germany**	3.00	**Mauritania**	--	**Spain**	6.00
Belgium	9.00	**Ghana**	1.00	**Mexico**	2.00	**Sri Lanka**	2.00
Benin	--	**Greece**	1.00	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	--	**Mongolia**	--	**Sweden**	3.00
Bolivia	7.00	**Guinea**	--	**Morocco**	--	**Switzerland**	6.00
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	1.00	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	2.00	**Honduras**	--	**Namibia**	--	**Tanzania**	1.00
Bulgaria	--	**Hungary**	--	**Nepal**	6.00	**Thailand**	7.00
Burkina Faso	--	**Iceland**	--	**Netherlands**	3.00	**Togo**	--
Burundi	--	**India**	9.00	**New Zealand**	3.00	**Trin. and Tob.**	--
Byelarus	--	**Indonesia**	5.00	**Nicaragua**	--	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	1.00	**Turkey**	--
Cameroon	--	**Iraq**	--	**Nigeria**	1.00	**Turkmenistan**	--
Canada	9.00	**Ireland**	2.00	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	--	**Norway**	--	**Ukraine**	--
Chad	--	**Italy**	4.00	**Oman**	2.00	**United Ar. Em.**	--
Chile	9.00	**Ivory Coast**	--	**Pakistan**	8.00	**United King.**	9.00
China	1.00	**Jamaica**	--	**Panama**	--	**United States**	9.00
Colombia	2.00	**Japan**	--	**Papua N.G.**	--	**Uruguay**	--
Congo	--	**Jordan**	--	**Paraguay**	4.00	**Uzbekistan**	--
Costa Rica	8.00	**Kazakhstan**	--	**Peru**	6.00	**Venezuela**	2.00
Croatia	--	**Kenya**	1.00	**Philippines**	1.00	**Vietnam**	2.00
Cuba	--	**Kuwait**	2.00	**Poland**	--	**Zaire**	--
Czech Rep.	1.00	**Kyrgyzstan**	--	**Portugal**	7.00	**Zambia**	--
Denmark	1.00	**Laos**	--	**Romania**	--	**Zimbabwe**	9.00
Dom. Rep.	--	**Latvia**	--	**Russia**	2.00		
Ecuador	1.00	**Lebanon**	--	**Rwanda**	--		

Variable: EIONUM

Name: Number of memberships in environmental intergovernmental organizations

Units: Number of Memberships **Reference Year:** 1998

Source Organizational Memberships from "Yearbook of International Organizations," provided in digital form from Monty Marshall, University of Maryland.

Logic: Countries contribute to global environmental governance by participating in intergovernmental environmental organizations.

Methodology: 100 Intergovernmental organizations were coded as "environmental" by CIESIN. (list available upon request)

Mean	12.98	**Max**	35	**97.5 percentile cut-off value:**	28.95
Median	12	**Min**	2	**2.5 percentile cut-off value:**	3

Albania	6.00	**Egypt**	21.00	**Liberia**	10.00	**Saudi Arabia**	8.00
Algeria	14.00	**El Salvador**	10.00	**Libya**	10.00	**Senegal**	14.00
Angola	8.00	**Estonia**	8.00	**Lithuania**	8.00	**Sierra Leone**	11.00
Argentina	15.00	**Ethiopia**	9.00	**Macedonia**	6.00	**Slovakia**	12.00
Armenia	4.00	**Finland**	25.00	**Madagascar**	9.00	**Slovenia**	11.00
Australia	19.00	**France**	35.00	**Malawi**	12.00	**Somalia**	8.00
Austria	20.00	**Gabon**	13.00	**Malaysia**	16.00	**South Africa**	13.00
Azerbaijan	5.00	**Gambia**	8.00	**Mali**	12.00	**South Korea**	16.00
Bangladesh	7.00	**Germany**	34.00	**Mauritania**	12.00	**Spain**	27.00
Belgium	26.00	**Ghana**	13.00	**Mexico**	15.00	**Sri Lanka**	14.00
Benin	10.00	**Greece**	23.00	**Moldova**	5.00	**Sudan**	15.00
Bhutan	2.00	**Guatemala**	13.00	**Mongolia**	5.00	**Sweden**	27.00
Bolivia	15.00	**Guinea**	5.00	**Morocco**	18.00	**Switzerland**	24.00
Bosnia and H.	5.00	**Guinea-Bissau**	11.00	**Mozambique**	6.00	**Syria**	15.00
Botswana	6.00	**Haiti**	8.00	**Myanmar**	--	**Tajikistan**	3.00
Brazil	20.00	**Honduras**	9.00	**Namibia**	6.00	**Tanzania**	16.00
Bulgaria	11.00	**Hungary**	15.00	**Nepal**	6.00	**Thailand**	16.00
Burkina Faso	9.00	**Iceland**	--	**Netherlands**	30.00	**Togo**	13.00
Burundi	5.00	**India**	23.00	**New Zealand**	12.00	**Trin. and Tob.**	12.00
Byelarus	5.00	**Indonesia**	15.00	**Nicaragua**	12.00	**Tunisia**	16.00
Cambodia	6.00	**Iran**	11.00	**Niger**	10.00	**Turkey**	14.00
Cameroon	18.00	**Iraq**	13.00	**Nigeria**	17.00	**Turkmenistan**	4.00
Canada	18.00	**Ireland**	19.00	**North Korea**	5.00	**Uganda**	13.00
Central Af. R.	7.00	**Israel**	12.00	**Norway**	26.00	**Ukraine**	8.00
Chad	9.00	**Italy**	26.00	**Oman**	10.00	**United Ar. Em.**	11.00
Chile	10.00	**Ivory Coast**	22.00	**Pakistan**	14.00	**United King.**	28.00
China	12.00	**Jamaica**	10.00	**Panama**	14.00	**United States**	23.00
Colombia	16.00	**Japan**	24.00	**Papua N.G.**	11.00	**Uruguay**	11.00
Congo	11.00	**Jordan**	11.00	**Paraguay**	9.00	**Uzbekistan**	5.00
Costa Rica	12.00	**Kazakhstan**	5.00	**Peru**	15.00	**Venezuela**	16.00
Croatia	9.00	**Kenya**	17.00	**Philippines**	14.00	**Vietnam**	8.00
Cuba	13.00	**Kuwait**	10.00	**Poland**	16.00	**Zaire**	12.00
Czech Rep.	12.00	**Kyrgyzstan**	3.00	**Portugal**	21.00	**Zambia**	10.00
Denmark	26.00	**Laos**	3.00	**Romania**	13.00	**Zimbabwe**	11.00
Dom. Rep.	10.00	**Latvia**	8.00	**Russia**	22.00		
Ecuador	17.00	**Lebanon**	10.00	**Rwanda**	5.00		

Variable: ENEFF
Name: Energy efficiency (total energy consumption per unit GDP)
Units: Billion Btu/Million Dollars GDP **Reference Year:** 1999
Source US Energy Information Agency, http://www.eia.doe.gov/emeu/international/contents.html
Logic: The more efficient an economy is, the less energy it needs to produce goods and services.
Methodology:

Mean	9.11	**Max**	41.41	**97.5 percentile cut-off value:**	35.43
Median	7.14	**Min**	0.38	**2.5 percentile cut-off value:**	0.94

Albania	7.36	**Egypt**	9.42	**Liberia**	[4.74]	**Saudi Arabia**	19.88
Algeria	8.63	**El Salvador**	3.89	**Libya**	[12.24]	**Senegal**	4.20
Angola	2.72	**Estonia**	8.68	**Lithuania**	13.03	**Sierra Leone**	5.79
Argentina	6.05	**Ethiopia**	1.37	**Macedonia**	13.77	**Slovakia**	12.26
Armenia	10.68	**Finland**	10.99	**Madagascar**	2.04	**Slovenia**	8.57
Australia	10.17	**France**	7.64	**Malawi**	3.85	**Somalia**	[3.31]
Austria	6.84	**Gabon**	7.26	**Malaysia**	9.10	**South Africa**	11.58
Azerbaijan	28.20	**Gambia**	1.54	**Mali**	1.33	**South Korea**	9.94
Bangladesh	2.36	**Germany**	7.17	**Mauritania**	11.46	**Spain**	7.33
Belgium	10.03	**Ghana**	3.05	**Mexico**	7.63	**Sri Lanka**	2.81
Benin	2.64	**Greece**	7.90	**Moldova**	16.43	**Sudan**	[4.77]
Bhutan	4.81	**Guatemala**	3.57	**Mongolia**	17.16	**Sweden**	10.98
Bolivia	6.40	**Guinea**	1.52	**Morocco**	4.29	**Switzerland**	6.35
Bosnia and H.	[13.03]	**Guinea-Bissau**	5.25	**Mozambique**	1.57	**Syria**	15.76
Botswana	4.31	**Haiti**	1.92	**Myanmar**	[4.98]	**Tajikistan**	41.41
Brazil	7.11	**Honduras**	5.72	**Namibia**	2.15	**Tanzania**	3.06
Bulgaria	19.81	**Hungary**	9.27	**Nepal**	1.80	**Thailand**	6.71
Burkina Faso	1.06	**Iceland**	16.46	**Netherlands**	10.05	**Togo**	2.91
Burundi	1.80	**India**	5.43	**New Zealand**	11.15	**Trin. and Tob.**	37.84
Byelarus	15.91	**Indonesia**	6.05	**Nicaragua**	5.77	**Tunisia**	5.20
Cambodia	0.49	**Iran**	13.40	**Niger**	2.10	**Turkey**	7.20
Cameroon	3.81	**Iraq**	[20.55]	**Nigeria**	8.59	**Turkmenistan**	18.62
Canada	15.63	**Ireland**	5.78	**North Korea**	[24.07]	**Uganda**	1.05
Central Af. R.	1.21	**Israel**	6.88	**Norway**	14.90	**Ukraine**	37.22
Chad	0.38	**Italy**	6.28	**Oman**	[13.61]	**United Ar. Em.**	[23.03]
Chile	7.44	**Ivory Coast**	6.76	**Pakistan**	7.41	**United King.**	7.54
China	7.03	**Jamaica**	16.83	**Panama**	9.48	**United States**	10.93
Colombia	5.03	**Japan**	6.88	**Papua N.G.**	4.23	**Uruguay**	5.18
Congo	8.74	**Jordan**	11.46	**Paraguay**	4.66	**Uzbekistan**	34.12
Costa Rica	4.19	**Kazakhstan**	19.56	**Peru**	4.58	**Venezuela**	21.17
Croatia	12.41	**Kenya**	5.02	**Philippines**	3.93	**Vietnam**	4.01
Cuba	[3.36]	**Kuwait**	[15.28]	**Poland**	11.74	**Zaire**	[5.86]
Czech Rep.	11.55	**Kyrgyzstan**	17.93	**Portugal**	6.32	**Zambia**	12.87
Denmark	6.42	**Laos**	0.80	**Romania**	11.90	**Zimbabwe**	6.33
Dom. Rep.	4.22	**Latvia**	10.07	**Russia**	23.36		
Ecuador	9.77	**Lebanon**	12.16	**Rwanda**	1.71		

Variable: ESIMIS

Name: Percent of ESI variables missing from public global data sets

Units: Percentage **Reference Year:** 2002

Source 2002 Environmental Sustainability Index data set.

Logic: The greater the number of missing variables, the poorer the data availability in that country. Environmental monitoring and data systems are vital for tracking progress towards environmental sustainability.

Methodology: Data coverage for the following variables was evaluated: SO2, NO2, TSP, GMS_DO, GMS_PH, GMS_SS, GMS_EC, PRTMAM, PRTBRD, NOXKM, SO2KM, VOCKM, COALKM, CARSKM, FERTHA, PESTHA, BODWAT, FOREST, TFR, GR2050, UND_NO, WATSUP, DISRES, DISINT, U5MR, TAI, SCHOOL, PRAREA, EIA, ENEFF, RENPC, FSHCAT, and FSHCON.

Mean	8.8	**Max**	17	**97.5 percentile cut-off value:**	16
Median	9	**Min**	0	**2.5 percentile cut-off value:**	0.58

Albania	8.00	**Egypt**	6.00	**Liberia**	16.00	**Saudi Arabia**	14.00
Algeria	9.00	**El Salvador**	7.00	**Libya**	15.00	**Senegal**	8.00
Angola	13.00	**Estonia**	9.00	**Lithuania**	4.00	**Sierra Leone**	14.00
Argentina	3.00	**Ethiopia**	13.00	**Macedonia**	13.00	**Slovakia**	3.00
Armenia	11.00	**Finland**	0.00	**Madagascar**	13.00	**Slovenia**	5.00
Australia	4.00	**France**	2.00	**Malawi**	13.00	**Somalia**	16.00
Austria	3.00	**Gabon**	14.00	**Malaysia**	3.00	**South Africa**	6.00
Azerbaijan	15.00	**Gambia**	14.00	**Mali**	9.00	**South Korea**	2.00
Bangladesh	9.00	**Germany**	3.00	**Mauritania**	14.00	**Spain**	4.00
Belgium	4.00	**Ghana**	7.00	**Mexico**	2.00	**Sri Lanka**	11.00
Benin	12.00	**Greece**	4.00	**Moldova**	7.00	**Sudan**	8.00
Bhutan	16.00	**Guatemala**	9.00	**Mongolia**	13.00	**Sweden**	4.00
Bolivia	12.00	**Guinea**	13.00	**Morocco**	9.00	**Switzerland**	5.00
Bosnia and H.	16.00	**Guinea-Bissau**	13.00	**Mozambique**	11.00	**Syria**	11.00
Botswana	12.00	**Haiti**	11.00	**Myanmar**	11.00	**Tajikistan**	16.00
Brazil	3.00	**Honduras**	9.00	**Namibia**	14.00	**Tanzania**	10.00
Bulgaria	4.00	**Hungary**	1.00	**Nepal**	11.00	**Thailand**	3.00
Burkina Faso	14.00	**Iceland**	7.00	**Netherlands**	0.00	**Togo**	12.00
Burundi	15.00	**India**	5.00	**New Zealand**	1.00	**Trin. and Tob.**	11.00
Byelarus	12.00	**Indonesia**	5.00	**Nicaragua**	7.00	**Tunisia**	10.00
Cambodia	14.00	**Iran**	7.00	**Niger**	14.00	**Turkey**	5.00
Cameroon	11.00	**Iraq**	13.00	**Nigeria**	14.00	**Turkmenistan**	15.00
Canada	0.00	**Ireland**	6.00	**North Korea**	17.00	**Uganda**	11.00
Central Af. R.	13.00	**Israel**	7.00	**Norway**	2.00	**Ukraine**	6.00
Chad	14.00	**Italy**	4.00	**Oman**	15.00	**United Ar. Em.**	16.00
Chile	4.00	**Ivory Coast**	13.00	**Pakistan**	7.00	**United King.**	2.00
China	4.00	**Jamaica**	11.00	**Panama**	9.00	**United States**	4.00
Colombia	3.00	**Japan**	3.00	**Papua N.G.**	11.00	**Uruguay**	8.00
Congo	12.00	**Jordan**	8.00	**Paraguay**	10.00	**Uzbekistan**	14.00
Costa Rica	4.00	**Kazakhstan**	10.00	**Peru**	12.00	**Venezuela**	6.00
Croatia	6.00	**Kenya**	9.00	**Philippines**	3.00	**Vietnam**	13.00
Cuba	7.00	**Kuwait**	12.00	**Poland**	2.00	**Zaire**	15.00
Czech Rep.	5.00	**Kyrgyzstan**	14.00	**Portugal**	1.00	**Zambia**	13.00
Denmark	5.00	**Laos**	14.00	**Romania**	4.00	**Zimbabwe**	8.00
Dom. Rep.	12.00	**Latvia**	7.00	**Russia**	4.00		
Ecuador	5.00	**Lebanon**	13.00	**Rwanda**	13.00		

Variable: FCCC

Name: Participation in the UN Framework Convention on Climate Change

Units: Score Ranging from 0 (Low) to 2 (High) **Reference Year:** 2001

Source United Nations Framework Convention on Climate Change web site at http://www.unfccc.int

Logic: Climate change is a global environmental problem that can only be solved through international cooperation. This is a measure of national-level political commitment to address climate change.

Methodology: Countries receive one point for signature and one point for ratification.

Mean	1.53	**Max**	2	**97.5 percentile cut-off value:**	2
Median	2	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	1.00	**Egypt**	2.00	**Liberia**	0.00	**Saudi Arabia**	1.00
Algeria	2.00	**El Salvador**	2.00	**Libya**	1.00	**Senegal**	2.00
Angola	1.00	**Estonia**	2.00	**Lithuania**	1.00	**Sierra Leone**	1.00
Argentina	2.00	**Ethiopia**	2.00	**Macedonia**	1.00	**Slovakia**	2.00
Armenia	2.00	**Finland**	2.00	**Madagascar**	1.00	**Slovenia**	1.00
Australia	2.00	**France**	2.00	**Malawi**	1.00	**Somalia**	0.00
Austria	2.00	**Gabon**	1.00	**Malaysia**	2.00	**South Africa**	1.00
Azerbaijan	2.00	**Gambia**	1.00	**Mali**	2.00	**South Korea**	2.00
Bangladesh	1.00	**Germany**	2.00	**Mauritania**	1.00	**Spain**	2.00
Belgium	2.00	**Ghana**	2.00	**Mexico**	2.00	**Sri Lanka**	2.00
Benin	1.00	**Greece**	2.00	**Moldova**	2.00	**Sudan**	1.00
Bhutan	2.00	**Guatemala**	1.00	**Mongolia**	2.00	**Sweden**	2.00
Bolivia	2.00	**Guinea**	1.00	**Morocco**	2.00	**Switzerland**	2.00
Bosnia and H.	1.00	**Guinea-Bissau**	1.00	**Mozambique**	1.00	**Syria**	1.00
Botswana	2.00	**Haiti**	1.00	**Myanmar**	1.00	**Tajikistan**	1.00
Brazil	1.00	**Honduras**	2.00	**Namibia**	1.00	**Tanzania**	1.00
Bulgaria	2.00	**Hungary**	2.00	**Nepal**	1.00	**Thailand**	2.00
Burkina Faso	1.00	**Iceland**	2.00	**Netherlands**	2.00	**Togo**	1.00
Burundi	2.00	**India**	1.00	**New Zealand**	2.00	**Trin. and Tob.**	1.00
Byelarus	1.00	**Indonesia**	2.00	**Nicaragua**	2.00	**Tunisia**	2.00
Cambodia	1.00	**Iran**	1.00	**Niger**	2.00	**Turkey**	0.00
Cameroon	1.00	**Iraq**	0.00	**Nigeria**	1.00	**Turkmenistan**	2.00
Canada	2.00	**Ireland**	2.00	**North Korea**	1.00	**Uganda**	1.00
Central Af. R.	1.00	**Israel**	2.00	**Norway**	2.00	**Ukraine**	1.00
Chad	2.00	**Italy**	2.00	**Oman**	1.00	**United Ar. Em.**	1.00
Chile	2.00	**Ivory Coast**	2.00	**Pakistan**	1.00	**United King.**	2.00
China	1.00	**Jamaica**	2.00	**Panama**	2.00	**United States**	2.00
Colombia	1.00	**Japan**	2.00	**Papua N.G.**	1.00	**Uruguay**	2.00
Congo	2.00	**Jordan**	2.00	**Paraguay**	1.00	**Uzbekistan**	2.00
Costa Rica	2.00	**Kazakhstan**	2.00	**Peru**	2.00	**Venezuela**	1.00
Croatia	1.00	**Kenya**	1.00	**Philippines**	2.00	**Vietnam**	1.00
Cuba	2.00	**Kuwait**	1.00	**Poland**	2.00	**Zaire**	2.00
Czech Rep.	2.00	**Kyrgyzstan**	1.00	**Portugal**	2.00	**Zambia**	1.00
Denmark	2.00	**Laos**	2.00	**Romania**	2.00	**Zimbabwe**	2.00
Dom. Rep.	1.00	**Latvia**	2.00	**Russia**	2.00		
Ecuador	2.00	**Lebanon**	2.00	**Rwanda**	1.00		

Variable: FERTHA
Name: Fertilizer consumption per hectare of arable land
Units: Hundreds Grams/Hectare of Arable Land **Reference Year:** 1998
Source World Bank, World Development Indicators 2001. Washington, DC: World Bank, 2001.
Logic: Excessive use of fertilizers from agricultural activities has a negative impact on soil and water, altering chemistry and levels of nutrients and leading to eutrophication problems.

Methodology:

Mean	1437.62	**Max**	31000	**97.5 percentile cut-off value:**	7911.78
Median	675.295	**Min**	0	**2.5 percentile cut-off value:**	1.07

Albania	433.28	**Egypt**	3926.08	**Liberia**	0.00	**Saudi Arabia**	870.27
Algeria	125.05	**El Salvador**	1475.00	**Libya**	277.13	**Senegal**	120.18
Angola	17.33	**Estonia**	289.26	**Lithuania**	474.70	**Sierra Leone**	61.98
Argentina	323.80	**Ethiopia**	165.07	**Macedonia**	749.57	**Slovakia**	722.64
Armenia	0.00	**Finland**	1407.48	**Madagascar**	33.83	**Slovenia**	3315.58
Australia	392.38	**France**	2630.98	**Malawi**	267.73	**Somalia**	4.81
Austria	1803.87	**Gabon**	12.31	**Malaysia**	7725.88	**South Africa**	529.11
Azerbaijan	141.75	**Gambia**	76.92	**Mali**	114.25	**South Korea**	5117.10
Bangladesh	1465.22	**Germany**	2473.66	**Mauritania**	43.03	**Spain**	1475.35
Belgium	3743.84	**Ghana**	42.06	**Mexico**	676.87	**Sri Lanka**	2682.72
Benin	221.81	**Greece**	1709.46	**Moldova**	673.72	**Sudan**	22.46
Bhutan	7.14	**Guatemala**	1635.29	**Mongolia**	37.85	**Sweden**	1006.47
Bolivia	37.71	**Guinea**	37.11	**Morocco**	387.91	**Switzerland**	7927.71
Bosnia and H.	618.80	**Guinea-Bissau**	20.00	**Mozambique**	16.14	**Syria**	698.80
Botswana	122.45	**Haiti**	144.46	**Myanmar**	179.94	**Tajikistan**	766.34
Brazil	1078.29	**Honduras**	825.33	**Namibia**	[1292.97]	**Tanzania**	74.20
Bulgaria	394.31	**Hungary**	945.84	**Nepal**	418.56	**Thailand**	988.61
Burkina Faso	147.74	**Iceland**	31000.00	**Netherlands**	5132.45	**Togo**	78.18
Burundi	26.92	**India**	1040.09	**New Zealand**	4254.02	**Trin. and Tob.**	1413.33
Byelarus	1478.91	**Indonesia**	1545.57	**Nicaragua**	214.08	**Tunisia**	416.73
Cambodia	34.37	**Iran**	743.90	**Niger**	1.86	**Turkey**	892.34
Cameroon	66.33	**Iraq**	737.31	**Nigeria**	66.77	**Turkmenistan**	926.38
Canada	581.65	**Ireland**	5210.33	**North Korea**	924.74	**Uganda**	3.68
Central Af. R.	3.11	**Israel**	3450.14	**Norway**	2257.71	**Ukraine**	158.87
Chad	47.78	**Italy**	2103.86	**Oman**	3750.00	**United Ar. Em.**	7900.00
Chile	2255.68	**Ivory Coast**	384.41	**Pakistan**	1148.77	**United King.**	3325.35
China	2825.56	**Jamaica**	1347.41	**Panama**	644.72	**United States**	1117.48
Colombia	3015.87	**Japan**	3131.20	**Papua N.G.**	2500.00	**Uruguay**	1058.17
Congo	289.02	**Jordan**	918.86	**Paraguay**	279.55	**Uzbekistan**	1920.45
Costa Rica	8795.56	**Kazakhstan**	15.45	**Peru**	519.62	**Venezuela**	919.70
Croatia	1390.28	**Kenya**	319.00	**Philippines**	1141.69	**Vietnam**	3416.49
Cuba	467.52	**Kuwait**	3500.00	**Poland**	1162.54	**Zaire**	0.00
Czech Rep.	970.48	**Kyrgyzstan**	419.50	**Portugal**	1319.15	**Zambia**	76.62
Denmark	1704.02	**Laos**	127.07	**Romania**	385.74	**Zimbabwe**	541.61
Dom. Rep.	892.52	**Latvia**	241.72	**Russia**	86.27		
Ecuador	1096.00	**Lebanon**	3360.33	**Rwanda**	3.66		

Variable: FOREST

Name: Forest cover change 1990-2000, annual change rate (percentage)

Units: Percent Change **Reference Year:** 1990-2000

Source Source: Forest Resources Assessment 2000. http://www.fao.org/forestry/fo/fra/index.jsp

Logic: When forests are lost or severely degraded, their capacity to function as regulators for the environment is also lost, increasing flood and erosion hazards, reducing soil fertility, and contributing to the loss of plant and animal life. As a result, the sustainable provision of goods and services from forests is jeopardized (Forest Resources Assessment).

Methodology:

Mean	-0.3	**Max**	5.3	**97.5 percentile cut-off value:**	3.39
Median	-0.05	**Min**	-9	**2.5 percentile cut-off value:**	-4.2

Albania	-0.80	**Egypt**	3.30	**Liberia**	-2.00	**Saudi Arabia**	0.00
Algeria	1.30	**El Salvador**	-4.60	**Libya**	1.40	**Senegal**	-0.70
Angola	-0.20	**Estonia**	0.60	**Lithuania**	0.20	**Sierra Leone**	-2.90
Argentina	-0.80	**Ethiopia**	-0.80	**Macedonia**	0.00	**Slovakia**	0.90
Armenia	1.30	**Finland**	0.00	**Madagascar**	-0.90	**Slovenia**	0.20
Australia	-0.18	**France**	0.40	**Malawi**	-2.40	**Somalia**	-1.00
Austria	0.20	**Gabon**	0.00	**Malaysia**	-1.20	**South Africa**	-0.10
Azerbaijan	1.30	**Gambia**	1.00	**Mali**	-0.70	**South Korea**	-0.10
Bangladesh	1.30	**Germany**	0.00	**Mauritania**	-2.70	**Spain**	0.60
Belgium	-0.20	**Ghana**	-1.70	**Mexico**	-1.10	**Sri Lanka**	-1.60
Benin	-2.30	**Greece**	0.90	**Moldova**	0.20	**Sudan**	-1.40
Bhutan	0.00	**Guatemala**	-1.70	**Mongolia**	-0.50	**Sweden**	0.00
Bolivia	-0.30	**Guinea**	-0.50	**Morocco**	0.00	**Switzerland**	0.40
Bosnia and H.	0.00	**Guinea-Bissau**	-0.90	**Mozambique**	-0.20	**Syria**	0.00
Botswana	-0.90	**Haiti**	-5.70	**Myanmar**	-1.40	**Tajikistan**	0.50
Brazil	-0.40	**Honduras**	-1.00	**Namibia**	-0.90	**Tanzania**	-0.20
Bulgaria	0.60	**Hungary**	0.40	**Nepal**	-1.80	**Thailand**	-0.70
Burkina Faso	-0.20	**Iceland**	2.20	**Netherlands**	0.30	**Togo**	-3.40
Burundi	-9.00	**India**	0.10	**New Zealand**	0.50	**Trin. and Tob.**	-0.80
Byelarus	3.20	**Indonesia**	-1.20	**Nicaragua**	-3.00	**Tunisia**	0.20
Cambodia	-0.90	**Iran**	0.00	**Niger**	-3.70	**Turkey**	0.20
Cameroon	-0.90	**Iraq**	0.00	**Nigeria**	-2.60	**Turkmenistan**	0.00
Canada	0.00	**Ireland**	3.00	**North Korea**	0.00	**Uganda**	-2.00
Central Af. R.	-0.10	**Israel**	4.90	**Norway**	0.40	**Ukraine**	0.30
Chad	-0.60	**Italy**	0.30	**Oman**	5.30	**United Ar. Em.**	2.80
Chile	-0.10	**Ivory Coast**	-3.10	**Pakistan**	-1.50	**United King.**	0.60
China	1.20	**Jamaica**	-1.50	**Panama**	-1.60	**United States**	0.20
Colombia	-0.40	**Japan**	0.00	**Papua N.G.**	-0.40	**Uruguay**	0.20
Congo	-0.10	**Jordan**	0.00	**Paraguay**	-0.50	**Uzbekistan**	0.10
Costa Rica	-0.80	**Kazakhstan**	2.20	**Peru**	-0.40	**Venezuela**	0.50
Croatia	0.10	**Kenya**	-0.50	**Philippines**	-1.40	**Vietnam**	0.00
Cuba	1.30	**Kuwait**	3.50	**Poland**	0.20	**Zaire**	-0.40
Czech Rep.	0.00	**Kyrgyzstan**	2.60	**Portugal**	1.70	**Zambia**	-2.40
Denmark	0.20	**Laos**	-0.40	**Romania**	0.20	**Zimbabwe**	-1.50
Dom. Rep.	0.00	**Latvia**	0.40	**Russia**	0.00		
Ecuador	-1.20	**Lebanon**	-0.40	**Rwanda**	-3.90		

Variable: FSC

Name: FSC accredited forests as percent of total forest area

Units: FSC Forest Area as Percent of Total Forest Area **Reference Year:** 2000

Source Forest Stewardship Council web site, http://www.fscoax.org/html/5-3-3.html, and World Resources Institute, World Resources 2000-2001, Washington, DC: WRI, 2000, Data Table FG.2

Logic: This variable measures the extent to which an economy seeks sustainable forestry practices.

Methodology: In calculating the ESI, the base-10 logarithm of this variable was used.

Mean	1.98	**Max**	66.46	**97.5 percentile cut-off value:**	35.53
Median	0	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.00	**Egypt**	0.00	**Liberia**	0.00	**Saudi Arabia**	0.00
Algeria	0.00	**El Salvador**	0.00	**Libya**	0.00	**Senegal**	0.00
Angola	0.00	**Estonia**	0.03	**Lithuania**	10.28	**Sierra Leone**	0.00
Argentina	0.06	**Ethiopia**	0.00	**Macedonia**	0.00	**Slovakia**	0.00
Armenia	0.00	**Finland**	0.00	**Madagascar**	0.00	**Slovenia**	0.00
Australia	0.00	**France**	0.09	**Malawi**	0.00	**Somalia**	0.00
Austria	0.09	**Gabon**	0.00	**Malaysia**	0.29	**South Africa**	9.04
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.00	**South Korea**	0.00
Bangladesh	0.00	**Germany**	2.55	**Mauritania**	0.00	**Spain**	0.00
Belgium	0.60	**Ghana**	0.00	**Mexico**	0.95	**Sri Lanka**	0.92
Benin	0.00	**Greece**	0.00	**Moldova**	0.00	**Sudan**	0.00
Bhutan	0.00	**Guatemala**	10.54	**Mongolia**	0.00	**Sweden**	33.97
Bolivia	1.85	**Guinea**	0.00	**Morocco**	0.00	**Switzerland**	5.05
Bosnia and H.	0.00	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	0.00
Botswana	0.00	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	0.00
Brazil	0.16	**Honduras**	0.26	**Namibia**	0.76	**Tanzania**	0.00
Bulgaria	0.00	**Hungary**	3.30	**Nepal**	0.00	**Thailand**	0.04
Burkina Faso	0.00	**Iceland**	0.00	**Netherlands**	18.69	**Togo**	0.00
Burundi	0.00	**India**	0.00	**New Zealand**	5.41	**Trin. and Tob.**	0.00
Byelarus	0.00	**Indonesia**	0.10	**Nicaragua**	0.00	**Tunisia**	0.00
Cambodia	0.00	**Iran**	0.00	**Niger**	0.00	**Turkey**	0.00
Cameroon	0.00	**Iraq**	0.00	**Nigeria**	0.00	**Turkmenistan**	0.00
Canada	0.05	**Ireland**	66.46	**North Korea**	0.00	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	0.00	**Norway**	0.06	**Ukraine**	0.00
Chad	0.00	**Italy**	0.11	**Oman**	0.00	**United Ar. Em.**	0.00
Chile	1.16	**Ivory Coast**	0.00	**Pakistan**	0.00	**United King.**	37.65
China	0.00	**Jamaica**	0.00	**Panama**	0.29	**United States**	1.38
Colombia	0.04	**Japan**	0.02	**Papua N.G.**	0.01	**Uruguay**	3.15
Congo	0.00	**Jordan**	0.00	**Paraguay**	0.00	**Uzbekistan**	0.00
Costa Rica	3.88	**Kazakhstan**	0.00	**Peru**	0.00	**Venezuela**	0.00
Croatia	13.53	**Kenya**	0.00	**Philippines**	0.26	**Vietnam**	0.00
Cuba	0.00	**Kuwait**	0.00	**Poland**	42.07	**Zaire**	0.00
Czech Rep.	0.40	**Kyrgyzstan**	0.00	**Portugal**	0.00	**Zambia**	0.00
Denmark	0.09	**Laos**	0.00	**Romania**	0.00	**Zimbabwe**	0.48
Dom. Rep.	0.00	**Latvia**	4.31	**Russia**	0.02		
Ecuador	0.00	**Lebanon**	0.00	**Rwanda**	0.00		

Variable: FSHCAT
Name: Total marine fish catch
Units: Metric Tons **Reference Year:** 1999
Source FAOSTAT on-line database, http://apps.fao.org/
Logic: Many marine fisheries are becoming depleted and overfished. This is a measure of pressure on global marine fish resources. Large marine fish catches by one nation necessarily depletes the stocks available to other nations.

Methodology:

Mean	649667.01	**Max**	11500550	**97.5 percentile cut-off value:**	5897902.2
Median	109395	**Min**	160	**2.5 percentile cut-off value:**	1226.5

Albania	1679.00	**Egypt**	155133.00	**Liberia**	10861.00	**Saudi Arabia**	41160.00
Algeria	101540.00	**El Salvador**	1351.00	**Libya**	32450.00	**Senegal**	319900.00
Angola	168466.00	**Estonia**	95315.00	**Lithuania**	27482.00	**Sierra Leone**	41909.00
Argentina	634190.00	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	--
Armenia	--	**Finland**	104058.00	**Madagascar**	87958.00	**Slovenia**	1820.00
Australia	134900.00	**France**	498887.00	**Malawi**	--	**Somalia**	19100.00
Austria	--	**Gabon**	41470.00	**Malaysia**	1057194.00	**South Africa**	576551.00
Azerbaijan	--	**Gambia**	26650.00	**Mali**	--	**South Korea**	1372773.00
Bangladesh	169087.00	**Germany**	194921.00	**Mauritania**	25948.00	**Spain**	1017201.00
Belgium	27218.00	**Ghana**	410668.00	**Mexico**	882256.00	**Sri Lanka**	241030.00
Benin	7758.00	**Greece**	143913.00	**Moldova**	--	**Sudan**	5500.00
Bhutan	--	**Guatemala**	936.00	**Mongolia**	--	**Sweden**	343996.00
Bolivia	--	**Guinea**	81618.00	**Morocco**	619136.00	**Switzerland**	--
Bosnia and H.	--	**Guinea-Bissau**	3867.00	**Mozambique**	12608.00	**Syria**	2530.00
Botswana	--	**Haiti**	3800.00	**Myanmar**	695904.00	**Tajikistan**	--
Brazil	420088.00	**Honduras**	3775.00	**Namibia**	294966.00	**Tanzania**	47020.00
Bulgaria	4226.00	**Hungary**	--	**Nepal**	--	**Thailand**	2340433.00
Burkina Faso	--	**Iceland**	1678886.00	**Netherlands**	446609.00	**Togo**	17801.00
Burundi	--	**India**	2242891.00	**New Zealand**	552552.00	**Trin. and Tob.**	14250.00
Byelarus	--	**Indonesia**	3414900.00	**Nicaragua**	8497.00	**Tunisia**	74438.00
Cambodia	28100.00	**Iran**	233495.00	**Niger**	--	**Turkey**	533593.00
Cameroon	59651.00	**Iraq**	13093.00	**Nigeria**	280941.00	**Turkmenistan**	--
Canada	569535.00	**Ireland**	253242.00	**North Korea**	164900.00	**Uganda**	--
Central Af. R.	--	**Israel**	5792.00	**Norway**	2551177.00	**Ukraine**	385903.00
Chad	--	**Italy**	183871.00	**Oman**	100776.00	**United Ar. Em.**	117462.00
Chile	4886811.00	**Ivory Coast**	62187.00	**Pakistan**	431873.00	**United King.**	711809.00
China	11500550.00	**Jamaica**	6283.00	**Panama**	109395.00	**United States**	3329233.00
Colombia	83012.00	**Japan**	3961326.00	**Papua N.G.**	37946.00	**Uruguay**	79683.00
Congo	17866.00	**Jordan**	160.00	**Paraguay**	--	**Uzbekistan**	--
Costa Rica	19838.00	**Kazakhstan**	--	**Peru**	8257115.00	**Venezuela**	315413.00
Croatia	19306.00	**Kenya**	5603.00	**Philippines**	1592090.00	**Vietnam**	777000.00
Cuba	42862.00	**Kuwait**	4757.00	**Poland**	192079.00	**Zaire**	3945.00
Czech Rep.	--	**Kyrgyzstan**	--	**Portugal**	189895.00	**Zambia**	--
Denmark	1293373.00	**Laos**	--	**Romania**	2438.00	**Zimbabwe**	--
Dom. Rep.	5608.00	**Latvia**	121058.00	**Russia**	3467192.00		
Ecuador	497769.00	**Lebanon**	3340.00	**Rwanda**	--		

Variable: FSHCON
Name: Seafood supply per capita
Units: Kg per Person per Year **Reference Year:** 1999
Source FAOSTAT on-line database, http://apps.fao.org/
Logic: Many global fisheries are under stress. This is a measure of pressure on global fishing grounds. The greater the per capita consumption of seafood, the higher the pressure on this transboundary resource.

Methodology: Seafood supply represents the per capita availability of seafood, and includes production + imports - exports.

Mean	13.19	**Max**	91.4	**97.5 percentile cut-off value:**	54.74
Median	8.8	**Min**	0.1	**2.5 percentile cut-off value:**	0.36

Albania	1.90	**Egypt**	9.90	**Liberia**	4.50	**Saudi Arabia**	7.00
Algeria	3.50	**El Salvador**	2.70	**Libya**	6.10	**Senegal**	34.70
Angola	6.20	**Estonia**	19.70	**Lithuania**	17.40	**Sierra Leone**	13.90
Argentina	9.60	**Ethiopia**	0.20	**Macedonia**	4.80	**Slovakia**	5.90
Armenia	1.00	**Finland**	35.60	**Madagascar**	7.20	**Slovenia**	6.70
Australia	18.80	**France**	28.70	**Malawi**	5.20	**Somalia**	1.70
Austria	14.10	**Gabon**	44.30	**Malaysia**	51.70	**South Africa**	7.30
Azerbaijan	1.00	**Gambia**	22.60	**Mali**	9.00	**South Korea**	49.20
Bangladesh	9.60	**Germany**	14.60	**Mauritania**	13.80	**Spain**	40.90
Belgium	20.20	**Ghana**	22.20	**Mexico**	10.50	**Sri Lanka**	20.60
Benin	8.90	**Greece**	26.70	**Moldova**	0.90	**Sudan**	1.60
Bhutan	--	**Guatemala**	1.30	**Mongolia**	0.10	**Sweden**	27.50
Bolivia	1.70	**Guinea**	14.70	**Morocco**	7.20	**Switzerland**	17.90
Bosnia and H.	1.40	**Guinea-Bissau**	2.90	**Mozambique**	2.10	**Syria**	1.10
Botswana	6.60	**Haiti**	2.70	**Myanmar**	16.30	**Tajikistan**	0.10
Brazil	6.70	**Honduras**	3.80	**Namibia**	11.60	**Tanzania**	9.40
Bulgaria	3.50	**Hungary**	4.70	**Nepal**	1.00	**Thailand**	32.20
Burkina Faso	1.40	**Iceland**	91.40	**Netherlands**	15.90	**Togo**	17.00
Burundi	3.20	**India**	4.60	**New Zealand**	24.30	**Trin. and Tob.**	14.10
Byelarus	1.10	**Indonesia**	17.60	**Nicaragua**	1.50	**Tunisia**	9.00
Cambodia	7.10	**Iran**	4.50	**Niger**	0.80	**Turkey**	6.90
Cameroon	8.80	**Iraq**	1.60	**Nigeria**	5.50	**Turkmenistan**	2.00
Canada	21.80	**Ireland**	15.40	**North Korea**	18.30	**Uganda**	8.60
Central Af. R.	3.60	**Israel**	23.30	**Norway**	50.10	**Ukraine**	8.80
Chad	6.40	**Italy**	23.50	**Oman**	--	**United Ar. Em.**	27.00
Chile	17.20	**Ivory Coast**	10.00	**Pakistan**	2.20	**United King.**	22.10
China	25.30	**Jamaica**	16.80	**Panama**	14.20	**United States**	20.30
Colombia	5.00	**Japan**	66.20	**Papua N.G.**	13.70	**Uruguay**	7.90
Congo	24.10	**Jordan**	3.40	**Paraguay**	5.90	**Uzbekistan**	0.50
Costa Rica	6.50	**Kazakhstan**	3.10	**Peru**	25.80	**Venezuela**	19.30
Croatia	4.40	**Kenya**	4.50	**Philippines**	29.10	**Vietnam**	17.20
Cuba	12.50	**Kuwait**	10.60	**Poland**	14.10	**Zaire**	5.90
Czech Rep.	11.50	**Kyrgyzstan**	0.60	**Portugal**	58.10	**Zambia**	7.00
Denmark	24.40	**Laos**	8.50	**Romania**	1.80	**Zimbabwe**	2.20
Dom. Rep.	12.40	**Latvia**	11.60	**Russia**	22.20		
Ecuador	7.40	**Lebanon**	6.80	**Rwanda**	0.50		

Variable: GASPR

Name: Ratio of premium gasoline price to world average

Units: Ratio of Gasoline Price to World Average **Reference Year:** 1998-2000 MRYA

Source German Agency for Technical Cooperation (GTZ), Fuel Prices and Taxation (1999) and the electronic update for 2000. Available from World Bank, World Development Indicators 2002, WDI table 3.12.

Logic: Unsubsidized gasoline prices are an indicator that appropriate price signals are being sent and that environmental externalities have been internalized. High taxes on gasoline act as an incentive for public transportation use and development of alternative fuels.

Methodology: Pump price for super gasoline (US$ per liter): Fuel prices refer to the pump prices of the most widely sold grade of gasoline. Prices have been converted from the local currency to U.S. dollars, and the ratio of the gas price to the world average in the same time period was used in order to normalize the data. For more information, see World Development Indicators, Table 3.12.

Mean	1.01	**Max**	1.95	**97.5 percentile cut-off value:**	1.8
Median	1.02	**Min**	0.03	**2.5 percentile cut-off value:**	0.15

Albania	0.93	**Egypt**	0.43	**Liberia**	[0.92]	**Saudi Arabia**	0.39
Algeria	0.44	**El Salvador**	1.10	**Libya**	0.41	**Senegal**	1.20
Angola	0.49	**Estonia**	0.98	**Lithuania**	1.08	**Sierra Leone**	[1.34]
Argentina	1.75	**Ethiopia**	0.75	**Macedonia**	1.25	**Slovakia**	1.13
Armenia	0.90	**Finland**	1.74	**Madagascar**	1.25	**Slovenia**	1.03
Australia	0.93	**France**	1.62	**Malawi**	1.13	**Somalia**	[0.99]
Austria	1.34	**Gabon**	0.87	**Malaysia**	0.46	**South Africa**	0.82
Azerbaijan	0.92	**Gambia**	1.05	**Mali**	1.15	**South Korea**	1.51
Bangladesh	0.75	**Germany**	1.49	**Mauritania**	1.10	**Spain**	1.20
Belgium	1.57	**Ghana**	0.33	**Mexico**	1.00	**Sri Lanka**	1.08
Benin	0.79	**Greece**	1.18	**Moldova**	0.74	**Sudan**	0.46
Bhutan	0.95	**Guatemala**	0.87	**Mongolia**	0.62	**Sweden**	1.54
Bolivia	1.31	**Guinea**	1.39	**Morocco**	1.34	**Switzerland**	1.28
Bosnia and H.	1.11	**Guinea-Bissau**	[1.05]	**Mozambique**	0.92	**Syria**	0.72
Botswana	0.69	**Haiti**	1.05	**Myanmar**	[1.06]	**Tajikistan**	0.74
Brazil	1.51	**Honduras**	1.02	**Namibia**	0.77	**Tanzania**	1.23
Bulgaria	1.15	**Hungary**	1.33	**Nepal**	1.03	**Thailand**	0.64
Burkina Faso	1.11	**Iceland**	1.72	**Netherlands**	1.69	**Togo**	0.79
Burundi	1.66	**India**	0.98	**New Zealand**	0.79	**Trin. and Tob.**	0.64
Byelarus	0.68	**Indonesia**	0.28	**Nicaragua**	1.02	**Tunisia**	0.80
Cambodia	1.00	**Iran**	0.08	**Niger**	1.11	**Turkey**	1.44
Cameroon	0.92	**Iraq**	0.05	**Nigeria**	0.44	**Turkmenistan**	0.03
Canada	0.95	**Ireland**	1.18	**North Korea**	1.46	**Uganda**	1.41
Central Af. R.	1.62	**Israel**	1.87	**Norway**	[1.21]	**Ukraine**	0.61
Chad	1.11	**Italy**	1.59	**Oman**	0.51	**United Ar. Em.**	0.41
Chile	1.05	**Ivory Coast**	1.25	**Pakistan**	0.87	**United King.**	1.92
China	0.66	**Jamaica**	1.02	**Panama**	0.87	**United States**	0.77
Colombia	0.80	**Japan**	1.74	**Papua N.G.**	0.87	**Uruguay**	1.95
Congo	0.87	**Jordan**	0.74	**Paraguay**	1.18	**Uzbekistan**	0.70
Costa Rica	1.07	**Kazakhstan**	0.59	**Peru**	1.31	**Venezuela**	0.20
Croatia	1.25	**Kenya**	1.16	**Philippines**	0.61	**Vietnam**	0.62
Cuba	1.00	**Kuwait**	0.34	**Poland**	1.25	**Zaire**	1.64
Czech Rep.	1.26	**Kyrgyzstan**	0.72	**Portugal**	1.26	**Zambia**	1.64
Denmark	1.66	**Laos**	0.67	**Romania**	0.75	**Zimbabwe**	1.39
Dom. Rep.	1.16	**Latvia**	1.10	**Russia**	0.54		
Ecuador	0.51	**Lebanon**	0.87	**Rwanda**	1.46		

Variable: GEF

Name: Global environmental facility participation

Units: Standardized Scale (Z-Score) **Reference Year:** 2000

Source GEF Projects Allocations and Disbursements GEF R.3/Inf.3, Ocobter 3, 2001 at http://www.gefweb.org/Allocations_Disbursements.pdf and GEF-2 Current and Projected Funding Status, GEF/R.3/19, November 21, 2001.

Logic: Managing global environmental problems requires active financial participation of both donors and recipients. The GEF irepresents the most significant global-scale effort to support world-wide environmental protection efforts.

Methodology: This score combines payments and receipts. To make payments and receipts comparable, the two were first standardized, and countries were assigned the higher of the two possible z-scores. Payments were normalized by share of United Nations budget, and receipts were normalized by share of total GEF payments. Covers receipts through June 30, 2001 and payments through November 20, 2001.

Mean	0.3	**Max**	15.13	**97.5 percentile cut-off value:**	2.95
Median	-0.08	**Min**	-0.1	**2.5 percentile cut-off value:**	-0.1

Albania	0.69	**Egypt**	-0.10	**Liberia**	-0.10	**Saudi Arabia**	-0.10
Algeria	-0.10	**El Salvador**	-0.10	**Libya**	-0.10	**Senegal**	0.55
Angola	-0.10	**Estonia**	-0.10	**Lithuania**	0.31	**Sierra Leone**	-0.10
Argentina	-0.10	**Ethiopia**	-0.10	**Macedonia**	15.13	**Slovakia**	0.49
Armenia	-0.10	**Finland**	-0.06	**Madagascar**	1.10	**Slovenia**	-0.08
Australia	-0.08	**France**	-0.08	**Malawi**	1.60	**Somalia**	-0.10
Austria	-0.08	**Gabon**	-0.10	**Malaysia**	-0.10	**South Africa**	-0.10
Azerbaijan	-0.03	**Gambia**	-0.10	**Mali**	-0.06	**South Korea**	-0.10
Bangladesh	-0.10	**Germany**	-0.08	**Mauritania**	0.20	**Spain**	-0.09
Belgium	-0.07	**Ghana**	0.28	**Mexico**	-0.10	**Sri Lanka**	0.02
Benin	2.11	**Greece**	-0.09	**Moldova**	-0.10	**Sudan**	-0.10
Bhutan	9.30	**Guatemala**	-0.08	**Mongolia**	1.65	**Sweden**	-0.04
Bolivia	0.69	**Guinea**	-0.10	**Morocco**	0.19	**Switzerland**	-0.10
Bosnia and H.	-0.10	**Guinea-Bissau**	0.23	**Mozambique**	0.21	**Syria**	-0.10
Botswana	-0.10	**Haiti**	-0.10	**Myanmar**	-0.10	**Tajikistan**	-0.10
Brazil	-0.10	**Honduras**	0.05	**Namibia**	-0.10	**Tanzania**	-0.10
Bulgaria	0.92	**Hungary**	-0.06	**Nepal**	-0.10	**Thailand**	-0.10
Burkina Faso	1.37	**Iceland**	-0.10	**Netherlands**	-0.06	**Togo**	-0.10
Burundi	-0.10	**India**	-0.08	**New Zealand**	-0.08	**Trin. and Tob.**	0.00
Byelarus	0.14	**Indonesia**	-0.06	**Nicaragua**	0.31	**Tunisia**	-0.10
Cambodia	0.13	**Iran**	-0.10	**Niger**	-0.10	**Turkey**	-0.09
Cameroon	-0.10	**Iraq**	-0.10	**Nigeria**	-0.02	**Turkmenistan**	-0.10
Canada	-0.07	**Ireland**	-0.08	**North Korea**	-0.10	**Uganda**	1.26
Central Af. R.	0.29	**Israel**	-0.10	**Norway**	-0.06	**Ukraine**	-0.03
Chad	-0.10	**Italy**	-0.09	**Oman**	-0.10	**United Ar. Em.**	-0.10
Chile	-0.10	**Ivory Coast**	0.55	**Pakistan**	-0.02	**United King.**	-0.08
China	-0.10	**Jamaica**	0.00	**Panama**	0.30	**United States**	-0.09
Colombia	-0.10	**Japan**	-0.08	**Papua N.G.**	1.33	**Uruguay**	-0.10
Congo	3.83	**Jordan**	0.25	**Paraguay**	-0.05	**Uzbekistan**	-0.10
Costa Rica	0.48	**Kazakhstan**	-0.10	**Peru**	-0.10	**Venezuela**	-0.10
Croatia	0.01	**Kenya**	-0.07	**Philippines**	-0.10	**Vietnam**	1.91
Cuba	-0.02	**Kuwait**	-0.10	**Poland**	0.04	**Zaire**	-0.10
Czech Rep.	-0.07	**Kyrgyzstan**	-0.10	**Portugal**	-0.09	**Zambia**	2.30
Denmark	-0.07	**Laos**	0.31	**Romania**	0.21	**Zimbabwe**	-0.05
Dom. Rep.	-0.10	**Latvia**	0.09	**Russia**	-0.10		
Ecuador	0.47	**Lebanon**	-0.08	**Rwanda**	-0.10		

Variable: GMS_DO

Name: Dissolved oxygen concentration

Units: Milligrams/Liter **Reference Year:** 1994-96 or MRYA

Source United Nations Environment Programme (UNEP), Global Environmental Monitoring System/Water Quality Monitoring System. http://www.cciw.ca/gems/, with data for an additional 29 countries from Prescott-Allen, R. The Wellbeing of Nations, Washington, DC: Island Press, 2001.

Logic: A measure of eutrophication, which has an important impact on the health of aquatic resoures and ecosystems. High levels correspond to low eutrophication.

Methodology: The country values represent averages of the station-level values for the three year time period 1994-96, except where data were only available for an earlier time period (1988-1993). The number of stations per country varies depending on country size, number of water bodies, and level of participation in the GEMS monitoring system. The data from "The Wellbeing of Nations" included a smaller subset of stations representing outfalls of major watersheds. An analysis of a sample of countries with numerous stations found that the data for subsetted stations are broadly comparable to the data for all GEMS stations in those countries.

Mean	7.73	**Max**	11.27	**97.5 percentile cut-off value:**	11.15
Median	7.7	**Min**	2.98	**2.5 percentile cut-off value:**	3.81

Albania	6.60	**Egypt**	[7.49]	**Liberia**	[8.01]	**Saudi Arabia**	[8.69]
Algeria	[8.72]	**El Salvador**	[6.09]	**Libya**	[7.58]	**Senegal**	4.43
Angola	[7.69]	**Estonia**	11.15	**Lithuania**	5.68	**Sierra Leone**	[6.07]
Argentina	10.00	**Ethiopia**	[5.79]	**Macedonia**	[8.93]	**Slovakia**	10.03
Armenia	[7.3]	**Finland**	11.19	**Madagascar**	[6.24]	**Slovenia**	9.70
Australia	[10.64]	**France**	10.33	**Malawi**	[8.35]	**Somalia**	[7.83]
Austria	11.15	**Gabon**	[7.27]	**Malaysia**	4.54	**South Africa**	[7.54]
Azerbaijan	[8.27]	**Gambia**	[3.75]	**Mali**	8.46	**South Korea**	10.32
Bangladesh	[6.13]	**Germany**	[10.45]	**Mauritania**	[5.54]	**Spain**	8.35
Belgium	5.62	**Ghana**	6.80	**Mexico**	6.10	**Sri Lanka**	[6.64]
Benin	[6.27]	**Greece**	11.27	**Moldova**	10.95	**Sudan**	7.84
Bhutan	[6.26]	**Guatemala**	[6.63]	**Mongolia**	[8.57]	**Sweden**	[9.27]
Bolivia	[3.85]	**Guinea**	[6.51]	**Morocco**	6.25	**Switzerland**	[10.85]
Bosnia and H.	[6.15]	**Guinea-Bissau**	[5.75]	**Mozambique**	[5.44]	**Syria**	[5.83]
Botswana	[9.13]	**Haiti**	[8.9]	**Myanmar**	[4.83]	**Tajikistan**	[5.78]
Brazil	7.27	**Honduras**	[7.61]	**Namibia**	[7.58]	**Tanzania**	6.87
Bulgaria	8.23	**Hungary**	10.82	**Nepal**	[6.69]	**Thailand**	2.98
Burkina Faso	[5.87]	**Iceland**	[8.39]	**Netherlands**	9.78	**Togo**	[7.28]
Burundi	[3.94]	**India**	6.38	**New Zealand**	9.87	**Trin. and Tob.**	[9.61]
Byelarus	[8.81]	**Indonesia**	3.31	**Nicaragua**	[6.28]	**Tunisia**	[9.35]
Cambodia	[4.74]	**Iran**	10.57	**Niger**	[5.4]	**Turkey**	7.77
Cameroon	[4.87]	**Iraq**	[7.28]	**Nigeria**	[6.77]	**Turkmenistan**	[6.74]
Canada	10.85	**Ireland**	10.85	**North Korea**	[6.73]	**Uganda**	[7.04]
Central Af. R.	[5.29]	**Israel**	[10.33]	**Norway**	[9.16]	**Ukraine**	8.60
Chad	[5.85]	**Italy**	8.73	**Oman**	[8.57]	**United Ar. Em.**	[8.74]
Chile	[7.62]	**Ivory Coast**	[6.7]	**Pakistan**	7.11	**United King.**	10.40
China	7.99	**Jamaica**	[6.3]	**Panama**	[7.78]	**United States**	9.26
Colombia	5.55	**Japan**	10.18	**Papua N.G.**	[8.3]	**Uruguay**	[8.12]
Congo	[9.15]	**Jordan**	[8.91]	**Paraguay**	[8.33]	**Uzbekistan**	[7.71]
Costa Rica	[7.12]	**Kazakhstan**	[8.27]	**Peru**	[7.11]	**Venezuela**	[8.4]
Croatia	8.95	**Kenya**	[6.83]	**Philippines**	8.24	**Vietnam**	[9.23]
Cuba	8.10	**Kuwait**	[10.24]	**Poland**	9.86	**Zaire**	[5.56]
Czech Rep.	10.33	**Kyrgyzstan**	[6.93]	**Portugal**	7.65	**Zambia**	[5.77]
Denmark	10.00	**Laos**	[7.98]	**Romania**	9.70	**Zimbabwe**	[4.8]
Dom. Rep.	[8.5]	**Latvia**	10.75	**Russia**	9.69		
Ecuador	[6.52]	**Lebanon**	[5.78]	**Rwanda**	[6.62]		

Variable: GMS_EC

Name: Electrical conductivity

Units: Micro-Siemens/Centimeter **Reference Year:** 1994-96 or MRYA

Source United Nations Environment Programme (UNEP), Global Environmental Monitoring System/Water Quality Monitoring System. http://www.cciw.ca/gems/

Logic: A widely used bulk measure of metals concentration and salinity. High levels of conductivity correspond to high concentrations.

Methodology: The country values represent averages of the station-level values for the three year time period 1994-96, except where data were only available for an earlier time period (1988-1993). The number of stations per country varies depending on country size, number of water bodies, and level of participation in the GEMS monitoring system.

Mean	832.89	**Max**	4520.19	**97.5 percentile cut-off value:**	2667.02
Median	596.47	**Min**	0	**2.5 percentile cut-off value:**	66.06

Albania	[112.94]	**Egypt**	[1977.91]	**Liberia**	[891.54]	**Saudi Arabia**	[2057.25]
Algeria	[1478.73]	**El Salvador**	[582.63]	**Libya**	[1858.24]	**Senegal**	380.80
Angola	[291.46]	**Estonia**	[219.48]	**Lithuania**	598.75	**Sierra Leone**	[350.5]
Argentina	113.68	**Ethiopia**	[871.56]	**Macedonia**	[1619.25]	**Slovakia**	[918.85]
Armenia	[1953.96]	**Finland**	50.49	**Madagascar**	[436.49]	**Slovenia**	[908.82]
Australia	[655.39]	**France**	299.38	**Malawi**	[311.31]	**Somalia**	[739.68]
Austria	[811.6]	**Gabon**	[777.5]	**Malaysia**	508.01	**South Africa**	[1312.26]
Azerbaijan	[1473.98]	**Gambia**	[283.18]	**Mali**	120.77	**South Korea**	141.33
Bangladesh	231.60	**Germany**	1566.07	**Mauritania**	[756.33]	**Spain**	[927.14]
Belgium	2626.19	**Ghana**	185.59	**Mexico**	1239.62	**Sri Lanka**	[731.02]
Benin	[1378.26]	**Greece**	[2259.13]	**Moldova**	[260.18]	**Sudan**	259.33
Bhutan	[315.59]	**Guatemala**	[1061.16]	**Mongolia**	[531.94]	**Sweden**	77.56
Bolivia	[416.7]	**Guinea**	[716.05]	**Morocco**	3300.63	**Switzerland**	301.06
Bosnia and H.	[1248.06]	**Guinea-Bissau**	[1071.4]	**Mozambique**	[894.71]	**Syria**	[1608.99]
Botswana	[575.51]	**Haiti**	[713.29]	**Myanmar**	[594.19]	**Tajikistan**	[2442.78]
Brazil	145.65	**Honduras**	[388.43]	**Namibia**	[435.61]	**Tanzania**	363.21
Bulgaria	[1743.52]	**Hungary**	579.26	**Nepal**	[2722.27]	**Thailand**	348.33
Burkina Faso	[1074.82]	**Iceland**	[304.23]	**Netherlands**	623.12	**Togo**	[136.55]
Burundi	[237.91]	**India**	4520.19	**New Zealand**	125.84	**Trin. and Tob.**	[1614.88]
Byelarus	[1124.68]	**Indonesia**	167.13	**Nicaragua**	[438.42]	**Tunisia**	[1064.77]
Cambodia	[648.36]	**Iran**	419.64	**Niger**	[247.69]	**Turkey**	[1105.28]
Cameroon	[493.57]	**Iraq**	[2454.88]	**Nigeria**	[1157.79]	**Turkmenistan**	[2438.25]
Canada	237.44	**Ireland**	[723.43]	**North Korea**	[727.1]	**Uganda**	[1195.79]
Central Af. R.	[1242.78]	**Israel**	[2149.96]	**Norway**	0.61	**Ukraine**	[557.81]
Chad	[368.95]	**Italy**	[915.42]	**Oman**	[853.45]	**United Ar. Em.**	[2087.05]
Chile	667.94	**Ivory Coast**	[387.14]	**Pakistan**	410.13	**United King.**	368.06
China	522.78	**Jamaica**	[998.46]	**Panama**	[248.78]	**United States**	375.65
Colombia	85.80	**Japan**	179.29	**Papua N.G.**	[510.96]	**Uruguay**	[446.24]
Congo	[1153.53]	**Jordan**	1014.42	**Paraguay**	[455.6]	**Uzbekistan**	[1031.99]
Costa Rica	[1359.25]	**Kazakhstan**	[823.68]	**Peru**	[1297.18]	**Venezuela**	[175.58]
Croatia	[700.79]	**Kenya**	504.00	**Philippines**	136.70	**Vietnam**	[609.69]
Cuba	515.00	**Kuwait**	[2493.15]	**Poland**	1043.77	**Zaire**	[385.47]
Czech Rep.	[592.77]	**Kyrgyzstan**	[1938.57]	**Portugal**	191.13	**Zambia**	[130.62]
Denmark	[422.19]	**Laos**	[239.07]	**Romania**	[438.87]	**Zimbabwe**	[700.63]
Dom. Rep.	[326.71]	**Latvia**	[371.55]	**Russia**	0.00		
Ecuador	[129.35]	**Lebanon**	[1696.86]	**Rwanda**	[609.09]		

Variable: GMS_PH

Name: Phosphorus concentration

Units: Milligrams/Liter **Reference Year:** 1994-96 or MRYA

Source United Nations Environment Programme (UNEP), Global Environmental Monitoring System/Water Quality Monitoring System. http://www.cciw.ca/gems/, with data for an additional 29 countries from Prescott-Allen, R. The Wellbeing of Nations, Washington, DC: Island Press, 2001.

Logic: A measure of eutrophication, which affects aquatic resources health. High levels correspond to high eutrophication.

Methodology: The country values represent averages of the station-level values for the three year time period 1994-96, except where data were only available for an earlier time period (1988-1993). The number of stations per country varies depending on country size, number of water bodies, and level of participation in the GEMS monitoring system. The data from "The Wellbeing of Nations" included a smaller subset of stations representing outfalls of major watersheds. An analysis of a sample of countries with numerous stations found that the data for subsetted stations are broadly comparable to the data for all GEMS stations in those countries.

Mean	0.36	**Max**	1.75	**97.5 percentile cut-off value:**	1.06
Median	0.34	**Min**	0	**2.5 percentile cut-off value:**	0.01

Albania	0.00	**Egypt**	[0.6]	**Liberia**	[0.49]	**Saudi Arabia**	[0.11]
Algeria	[0.4]	**El Salvador**	[0.22]	**Libya**	[0.47]	**Senegal**	[0.34]
Angola	[0.57]	**Estonia**	0.11	**Lithuania**	0.08	**Sierra Leone**	[0.36]
Argentina	0.04	**Ethiopia**	[0.38]	**Macedonia**	[0.34]	**Slovakia**	0.22
Armenia	[0.48]	**Finland**	0.01	**Madagascar**	[0.45]	**Slovenia**	0.10
Australia	0.06	**France**	0.17	**Malawi**	[0.52]	**Somalia**	[0.35]
Austria	0.10	**Gabon**	[0.29]	**Malaysia**	0.04	**South Africa**	[0.73]
Azerbaijan	[0.6]	**Gambia**	[0.53]	**Mali**	0.15	**South Korea**	[1.13]
Bangladesh	[0.51]	**Germany**	0.32	**Mauritania**	[0.48]	**Spain**	0.50
Belgium	1.63	**Ghana**	[0.13]	**Mexico**	[0.64]	**Sri Lanka**	[0.1]
Benin	[0.67]	**Greece**	0.31	**Moldova**	0.20	**Sudan**	1.75
Bhutan	[0.13]	**Guatemala**	[0.41]	**Mongolia**	[0.17]	**Sweden**	[0.28]
Bolivia	[0.34]	**Guinea**	[0.49]	**Morocco**	0.26	**Switzerland**	0.07
Bosnia and H.	[0.36]	**Guinea-Bissau**	[0.82]	**Mozambique**	[0.49]	**Syria**	[0.21]
Botswana	[0.2]	**Haiti**	[0.34]	**Myanmar**	[0.31]	**Tajikistan**	[0.96]
Brazil	0.09	**Honduras**	[0.4]	**Namibia**	[0.35]	**Tanzania**	[0.32]
Bulgaria	[0.39]	**Hungary**	0.21	**Nepal**	[0.42]	**Thailand**	0.31
Burkina Faso	[0.38]	**Iceland**	[0.35]	**Netherlands**	0.27	**Togo**	[0.33]
Burundi	[0.68]	**India**	[0.15]	**New Zealand**	0.04	**Trin. and Tob.**	[0.08]
Byelarus	[0.36]	**Indonesia**	0.56	**Nicaragua**	[0.61]	**Tunisia**	[0.39]
Cambodia	[0.43]	**Iran**	[0.35]	**Niger**	[0.69]	**Turkey**	0.35
Cameroon	[0.5]	**Iraq**	0.01	**Nigeria**	[0.66]	**Turkmenistan**	[0.48]
Canada	0.00	**Ireland**	0.11	**North Korea**	[0.81]	**Uganda**	0.16
Central Af. R.	[0.35]	**Israel**	[0.42]	**Norway**	0.01	**Ukraine**	0.23
Chad	[0.36]	**Italy**	0.13	**Oman**	[0.2]	**United Ar. Em.**	[0.44]
Chile	[0.51]	**Ivory Coast**	[0.14]	**Pakistan**	0.20	**United King.**	0.09
China	0.28	**Jamaica**	[1.01]	**Panama**	[0.37]	**United States**	0.08
Colombia	[0.36]	**Japan**	0.06	**Papua N.G.**	[0.11]	**Uruguay**	[0.31]
Congo	[0.21]	**Jordan**	1.01	**Paraguay**	[0.18]	**Uzbekistan**	[0.51]
Costa Rica	[0.34]	**Kazakhstan**	[0.47]	**Peru**	[0.29]	**Venezuela**	[0.45]
Croatia	0.50	**Kenya**	[0.58]	**Philippines**	[0.35]	**Vietnam**	[0.59]
Cuba	0.01	**Kuwait**	[0.66]	**Poland**	0.33	**Zaire**	[0.27]
Czech Rep.	0.29	**Kyrgyzstan**	[0.23]	**Portugal**	0.13	**Zambia**	[0.56]
Denmark	0.14	**Laos**	[0.45]	**Romania**	0.40	**Zimbabwe**	[0.09]
Dom. Rep.	[0.19]	**Latvia**	0.10	**Russia**	[0.14]		
Ecuador	[0.25]	**Lebanon**	[0.38]	**Rwanda**	[0.49]		

Variable: GMS_SS

Name: Suspended solids

Units: Natural Log of Milligrams/Liter **Reference Year:** 1994-96 or MRYA

Source United Nations Environment Programme (UNEP), Global Environmental Monitoring System/Water Quality Monitoring System. http://www.cciw.ca/gems/, with data for an additional 29 countries from Prescott-Allen, R. The Wellbeing of Nations, Washington, DC: Island Press, 2001.

Logic: A measure of water quality and turbidity.

Methodology: The country values represent averages of the station-level values for the three year time period 1994-96, except where data were only available for an earlier time period (1988-1993). The number of stations per country varies depending on country size, number of water bodies, and level of participation in the GEMS monitoring system. Data from "The Wellbeing of Nations" included a smaller subset of stations representing outfalls of major watersheds. An analysis of a sample of countries with numerous stations found that the data for subsetted stations are broadly comparable to the data for all GEMS stations in those countries. The data in this table were transformed using the natural logarithm.

Mean	5.05	**Max**	8.09	**97.5 percentile cut-off value:**	8.03
Median	5.105	**Min**	1.17	**2.5 percentile cut-off value:**	1.94

Albania	[3.59]	**Egypt**	[3.88]	**Liberia**	[7.6]	**Saudi Arabia**	[8.01]
Algeria	[5.11]	**El Salvador**	[5.16]	**Libya**	[6.32]	**Senegal**	[3.26]
Angola	[5.32]	**Estonia**	[7.97]	**Lithuania**	[2.98]	**Sierra Leone**	[5.9]
Argentina	4.77	**Ethiopia**	[3.59]	**Macedonia**	[3.94]	**Slovakia**	[3.75]
Armenia	[4.09]	**Finland**	1.17	**Madagascar**	[6.13]	**Slovenia**	[3.87]
Australia	7.64	**France**	3.24	**Malawi**	[4.77]	**Somalia**	[6.88]
Austria	[1.95]	**Gabon**	[6.26]	**Malaysia**	5.70	**South Africa**	[4.44]
Azerbaijan	[6.61]	**Gambia**	[5.97]	**Mali**	4.55	**South Korea**	1.69
Bangladesh	4.08	**Germany**	3.06	**Mauritania**	[5.86]	**Spain**	[4.04]
Belgium	3.53	**Ghana**	4.55	**Mexico**	5.17	**Sri Lanka**	[5.81]
Benin	[5.81]	**Greece**	[3.57]	**Moldova**	[6.52]	**Sudan**	6.38
Bhutan	[5.03]	**Guatemala**	[3.91]	**Mongolia**	[5.61]	**Sweden**	[2.47]
Bolivia	[5.48]	**Guinea**	[4.09]	**Morocco**	4.40	**Switzerland**	3.98
Bosnia and H.	[8.01]	**Guinea-Bissau**	[7.17]	**Mozambique**	[3.59]	**Syria**	[5.01]
Botswana	[4.18]	**Haiti**	[6.16]	**Myanmar**	6.41	**Tajikistan**	[6.93]
Brazil	4.08	**Honduras**	[6.38]	**Namibia**	7.01	**Tanzania**	[4.52]
Bulgaria	[3.09]	**Hungary**	3.42	**Nepal**	[5.41]	**Thailand**	5.60
Burkina Faso	[4.68]	**Iceland**	[5.61]	**Netherlands**	3.26	**Togo**	[5.92]
Burundi	[5.57]	**India**	[6.56]	**New Zealand**	2.32	**Trin. and Tob.**	[7.44]
Byelarus	[7.54]	**Indonesia**	5.37	**Nicaragua**	[5.19]	**Tunisia**	[5.24]
Cambodia	[5.37]	**Iran**	[5.92]	**Niger**	[5.29]	**Turkey**	[2.3]
Cameroon	[5.42]	**Iraq**	7.22	**Nigeria**	[5.99]	**Turkmenistan**	[7.86]
Canada	2.84	**Ireland**	[3.97]	**North Korea**	[7.85]	**Uganda**	[4.22]
Central Af. R.	[4.82]	**Israel**	[2.83]	**Norway**	[3.02]	**Ukraine**	[4.42]
Chad	[3.86]	**Italy**	5.63	**Oman**	[6.96]	**United Ar. Em.**	[8.04]
Chile	5.10	**Ivory Coast**	[5.89]	**Pakistan**	6.76	**United King.**	2.26
China	7.97	**Jamaica**	[5.66]	**Panama**	[4.94]	**United States**	[4.19]
Colombia	4.77	**Japan**	3.27	**Papua N.G.**	6.09	**Uruguay**	[4.32]
Congo	[5.55]	**Jordan**	4.50	**Paraguay**	[6.38]	**Uzbekistan**	8.09
Costa Rica	[4.33]	**Kazakhstan**	7.22	**Peru**	[4.96]	**Venezuela**	[3.93]
Croatia	[6.12]	**Kenya**	[5.64]	**Philippines**	3.62	**Vietnam**	6.52
Cuba	[4.33]	**Kuwait**	[8.08]	**Poland**	3.24	**Zaire**	[6.86]
Czech Rep.	[3.93]	**Kyrgyzstan**	[4.78]	**Portugal**	1.94	**Zambia**	[5.11]
Denmark	[2.62]	**Laos**	[5.13]	**Romania**	[4.38]	**Zimbabwe**	[4.62]
Dom. Rep.	[6.85]	**Latvia**	[2.9]	**Russia**	3.23		
Ecuador	[4.1]	**Lebanon**	[6.1]	**Rwanda**	[5.77]		

Variable: GR2050

Name: Percentage change in projected population between 2000 and 2050

Units: Percent Change in Population **Reference Year:** 2001

Source Population Reference Bureau, 2001 World Population Data Sheet, Washington, DC: PRB, 2001.

Logic: The projected change in population between 2000 and 2050 provides an indication of the trajectory of population change, which has an impact on a country's per capita natural resource availability and environmental conditions.

Methodology: A threshold of 0 was applied. All countries with growth rates of 0 or below received the same score.

Mean	65.82	**Max**	282.01	**97.5 percentile cut-off value:**	242.61
Median	48.72	**Min**	-35.95	**2.5 percentile cut-off value:**	-25.8

Albania	51.18	**Egypt**	64.26	**Liberia**	209.98	**Saudi Arabia**	185.38
Algeria	66.22	**El Salvador**	93.00	**Libya**	106.39	**Senegal**	135.10
Angola	140.89	**Estonia**	-35.95	**Lithuania**	-15.61	**Sierra Leone**	188.69
Argentina	45.49	**Ethiopia**	164.22	**Macedonia**	3.38	**Slovakia**	-13.03
Armenia	-0.29	**Finland**	-7.83	**Madagascar**	185.91	**Slovenia**	-14.94
Australia	28.90	**France**	9.99	**Malawi**	110.28	**Somalia**	240.50
Austria	0.79	**Gabon**	48.57	**Malaysia**	93.99	**South Africa**	-25.35
Azerbaijan	41.75	**Gambia**	195.18	**Mali**	230.27	**South Korea**	4.78
Bangladesh	56.24	**Germany**	-14.48	**Mauritania**	207.91	**Spain**	-22.71
Belgium	-2.70	**Ghana**	60.62	**Mexico**	50.34	**Sri Lanka**	18.94
Benin	173.96	**Greece**	-11.47	**Moldova**	-0.47	**Sudan**	99.91
Bhutan	127.00	**Guatemala**	142.58	**Mongolia**	61.02	**Sweden**	7.37
Bolivia	100.01	**Guinea**	137.86	**Morocco**	66.00	**Switzerland**	1.80
Bosnia and H.	-0.65	**Guinea-Bissau**	166.78	**Mozambique**	18.42	**Syria**	105.86
Botswana	-26.42	**Haiti**	70.17	**Myanmar**	43.37	**Tajikistan**	39.75
Brazil	43.94	**Honduras**	81.17	**Namibia**	37.10	**Tanzania**	143.65
Bulgaria	-34.80	**Hungary**	-19.49	**Nepal**	110.78	**Thailand**	15.21
Burkina Faso	179.53	**Iceland**	17.54	**Netherlands**	12.20	**Togo**	88.65
Burundi	158.47	**India**	57.60	**New Zealand**	28.54	**Trin. and Tob.**	5.84
Byelarus	-14.53	**Indonesia**	47.88	**Nicaragua**	122.22	**Tunisia**	46.46
Cambodia	38.30	**Iran**	51.52	**Niger**	174.81	**Turkey**	46.68
Cameroon	119.34	**Iraq**	127.14	**Nigeria**	139.73	**Turkmenistan**	29.16
Canada	18.05	**Ireland**	17.94	**North Korea**	20.12	**Uganda**	250.65
Central Af. R.	78.05	**Israel**	64.39	**Norway**	15.46	**Ukraine**	-21.84
Chad	282.01	**Italy**	-20.39	**Oman**	218.02	**United Ar. Em.**	53.60
Chile	25.60	**Ivory Coast**	117.82	**Pakistan**	138.11	**United King.**	6.87
China	7.52	**Jamaica**	48.04	**Panama**	47.54	**United States**	45.31
Colombia	66.03	**Japan**	-20.95	**Papua N.G.**	123.71	**Uruguay**	33.92
Congo	245.47	**Jordan**	128.48	**Paraguay**	155.25	**Uzbekistan**	60.94
Costa Rica	51.00	**Kazakhstan**	-5.45	**Peru**	62.05	**Venezuela**	63.33
Croatia	-16.01	**Kenya**	25.65	**Philippines**	67.36	**Vietnam**	48.87
Cuba	-2.83	**Kuwait**	180.75	**Poland**	-12.25	**Zaire**	239.25
Czech Rep.	-8.88	**Kyrgyzstan**	51.85	**Portugal**	-18.32	**Zambia**	107.67
Denmark	16.50	**Laos**	71.76	**Romania**	-14.02	**Zimbabwe**	-18.37
Dom. Rep.	73.91	**Latvia**	-25.10	**Russia**	-11.57		
Ecuador	92.04	**Lebanon**	35.38	**Rwanda**	21.78		

Variable: GRAFT

Name: Corruption measure (World Bank)

Units: Standardized Scale (z-score) **Reference Year:** 2000

Source Dataset from "Aggregating Governance Indicators" and "Governance Matters", Kaufmann D., Kraay A. and Zoido-Lobaton P, May 2000, World Bank.

Logic: Corruption contributes to lax enforcement of environmental regulations and an ability on the part of producers and consumers to evade responsibility for the environmental harms they cause.

Methodology:

Mean	-0.07	**Max**	2.13	**97.5 percentile cut-off value:**	2.08
Median	-0.305	**Min**	-1.57	**2.5 percentile cut-off value:**	-1.31

Albania	-0.99	**Egypt**	-0.27	**Liberia**	-1.05	**Saudi Arabia**	-0.58
Algeria	-0.88	**El Salvador**	-0.35	**Libya**	-0.88	**Senegal**	-0.24
Angola	-0.86	**Estonia**	0.59	**Lithuania**	0.03	**Sierra Leone**	-0.02
Argentina	-0.27	**Ethiopia**	-0.44	**Macedonia**	-0.52	**Slovakia**	0.03
Armenia	-0.80	**Finland**	2.08	**Madagascar**	-0.47	**Slovenia**	1.02
Australia	1.60	**France**	1.28	**Malawi**	-0.19	**Somalia**	-1.05
Austria	1.46	**Gabon**	-1.02	**Malaysia**	0.63	**South Africa**	0.30
Azerbaijan	-1.00	**Gambia**	-0.02	**Mali**	-0.48	**South Korea**	0.16
Bangladesh	-0.29	**Germany**	1.62	**Mauritania**	--	**Spain**	1.21
Belgium	0.67	**Ghana**	-0.30	**Mexico**	-0.28	**Sri Lanka**	-0.12
Benin	-0.78	**Greece**	0.82	**Moldova**	-0.39	**Sudan**	-1.02
Bhutan	--	**Guatemala**	-0.82	**Mongolia**	-0.15	**Sweden**	2.09
Bolivia	-0.44	**Guinea**	-0.18	**Morocco**	0.13	**Switzerland**	2.07
Bosnia and H.	-0.35	**Guinea-Bissau**	-0.85	**Mozambique**	-0.53	**Syria**	-0.79
Botswana	0.54	**Haiti**	-0.53	**Myanmar**	-1.10	**Tajikistan**	-1.32
Brazil	0.06	**Honduras**	-0.94	**Namibia**	0.38	**Tanzania**	-0.92
Bulgaria	-0.56	**Hungary**	0.61	**Nepal**	--	**Thailand**	-0.16
Burkina Faso	-0.37	**Iceland**	1.83	**Netherlands**	2.03	**Togo**	-0.24
Burundi	--	**India**	-0.31	**New Zealand**	2.07	**Trin. and Tob.**	0.51
Byelarus	-0.65	**Indonesia**	-0.80	**Nicaragua**	-0.84	**Tunisia**	0.02
Cambodia	--	**Iran**	-0.85	**Niger**	-1.57	**Turkey**	-0.35
Cameroon	-1.10	**Iraq**	-1.26	**Nigeria**	-0.95	**Turkmenistan**	-1.29
Canada	2.06	**Ireland**	1.57	**North Korea**	-0.53	**Uganda**	-0.47
Central Af. R.	--	**Israel**	1.28	**Norway**	1.69	**Ukraine**	-0.89
Chad	-0.59	**Italy**	0.80	**Oman**	0.48	**United Ar. Em.**	-0.03
Chile	1.03	**Ivory Coast**	-0.08	**Pakistan**	-0.77	**United King.**	1.71
China	-0.29	**Jamaica**	-0.12	**Panama**	-0.46	**United States**	1.41
Colombia	-0.49	**Japan**	0.72	**Papua N.G.**	-0.85	**Uruguay**	0.43
Congo	-0.60	**Jordan**	0.14	**Paraguay**	-0.96	**Uzbekistan**	-0.96
Costa Rica	0.58	**Kazakhstan**	-0.87	**Peru**	-0.20	**Venezuela**	-0.72
Croatia	-0.46	**Kenya**	-0.65	**Philippines**	-0.23	**Vietnam**	-0.33
Cuba	0.27	**Kuwait**	0.62	**Poland**	0.49	**Zaire**	-1.56
Czech Rep.	0.38	**Kyrgyzstan**	-0.76	**Portugal**	1.22	**Zambia**	-0.61
Denmark	2.13	**Laos**	--	**Romania**	-0.46	**Zimbabwe**	-0.32
Dom. Rep.	-0.77	**Latvia**	-0.26	**Russia**	-0.62		
Ecuador	-0.82	**Lebanon**	-0.40	**Rwanda**	--		

Variable: INNOV

Name: Innovation

Units: Unitless Scale **Reference Year:** 2001

Source Porter, Michael E. and Scott Stern, National Innovative Capacity, Chapter 2.2 in Porter, Michael, and Jeffrey Sachs (eds.), The Global Competitiveness Report 2001-2002, New York: Oxford University Press, 2001, p. 104.

Logic: This index measures the underlying capacity of a country to engage in technological innovation by examining factors such as scientific infrastructure and policy environment.

Methodology:

Mean	19.85	**Max**	30.3	**97.5 percentile cut-off value:**	29.43
Median	19.4	**Min**	11.6	**2.5 percentile cut-off value:**	11.6

Albania	--	**Egypt**	17.20	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	12.50	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	21.20	**Lithuania**	19.20	**Sierra Leone**	--
Argentina	17.00	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	20.00
Armenia	--	**Finland**	29.10	**Madagascar**	--	**Slovenia**	20.40
Australia	26.90	**France**	26.80	**Malawi**	--	**Somalia**	--
Austria	25.30	**Gabon**	--	**Malaysia**	16.80	**South Africa**	21.00
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	22.90
Bangladesh	11.60	**Germany**	27.20	**Mauritania**	--	**Spain**	23.40
Belgium	25.40	**Ghana**	--	**Mexico**	16.80	**Sri Lanka**	15.50
Benin	--	**Greece**	18.40	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	13.20	**Mongolia**	--	**Sweden**	26.90
Bolivia	11.60	**Guinea**	--	**Morocco**	--	**Switzerland**	26.90
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	20.10	**Honduras**	11.90	**Namibia**	--	**Tanzania**	--
Bulgaria	16.90	**Hungary**	21.10	**Nepal**	--	**Thailand**	17.40
Burkina Faso	--	**Iceland**	24.80	**Netherlands**	26.90	**Togo**	--
Burundi	--	**India**	18.90	**New Zealand**	22.10	**Trin. and Tob.**	18.60
Byelarus	--	**Indonesia**	16.40	**Nicaragua**	12.70	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	17.80
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	26.50	**Ireland**	25.40	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	26.50	**Norway**	25.30	**Ukraine**	20.30
Chad	--	**Italy**	23.30	**Oman**	--	**United Ar. Em.**	--
Chile	19.70	**Ivory Coast**	--	**Pakistan**	--	**United King.**	27.00
China	18.10	**Jamaica**	--	**Panama**	17.40	**United States**	30.30
Colombia	15.10	**Japan**	26.40	**Papua N.G.**	--	**Uruguay**	16.80
Congo	--	**Jordan**	--	**Paraguay**	13.10	**Uzbekistan**	--
Costa Rica	18.80	**Kazakhstan**	--	**Peru**	14.30	**Venezuela**	15.20
Croatia	--	**Kenya**	--	**Philippines**	15.80	**Vietnam**	13.80
Cuba	--	**Kuwait**	--	**Poland**	19.60	**Zaire**	--
Czech Rep.	21.30	**Kyrgyzstan**	--	**Portugal**	21.60	**Zambia**	--
Denmark	25.20	**Laos**	--	**Romania**	16.30	**Zimbabwe**	13.00
Dom. Rep.	13.60	**Latvia**	18.50	**Russia**	20.60		
Ecuador	11.90	**Lebanon**	--	**Rwanda**	--		

Variable: ISO14

Name: Number of ISO 14001 certified companies per million dollars GDP

Units: Number of ISO 14001 Certified Companies/GDP in US **Reference Year:** 2001

Source ISO14001/EMAS registered companies, ISO World, International Standards Organisation, available at http://www.ecology.or.jp/isoworld/english/analy14k.htm, accessed 20 November 2001.

Logic: ISO 14001 specifies standards for environmental management. The more firms that receive ISO 14001certification, the more likely it is that industries are instituting management practices that reduce waste and resource consumption.

Methodology:

Mean	5.36	**Max**	101.23	**97.5 percentile cut-off value:**	47.3
Median	0.41	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.00	**Egypt**	3.93	**Liberia**	0.00	**Saudi Arabia**	0.28
Algeria	0.07	**El Salvador**	0.00	**Libya**	0.00	**Senegal**	0.00
Angola	0.00	**Estonia**	15.05	**Lithuania**	3.95	**Sierra Leone**	0.00
Argentina	3.60	**Ethiopia**	0.00	**Macedonia**	1.11	**Slovakia**	11.31
Armenia	0.00	**Finland**	54.67	**Madagascar**	0.00	**Slovenia**	41.85
Australia	25.86	**France**	8.48	**Malawi**	0.00	**Somalia**	0.00
Austria	11.50	**Gabon**	0.00	**Malaysia**	17.97	**South Africa**	3.44
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.00	**South Korea**	11.86
Bangladesh	0.11	**Germany**	12.70	**Mauritania**	0.00	**Spain**	21.48
Belgium	5.19	**Ghana**	0.30	**Mexico**	2.82	**Sri Lanka**	0.34
Benin	0.00	**Greece**	4.28	**Moldova**	0.00	**Sudan**	0.00
Bhutan	0.00	**Guatemala**	0.52	**Mongolia**	0.00	**Sweden**	101.23
Bolivia	0.54	**Guinea**	0.00	**Morocco**	0.52	**Switzerland**	38.02
Bosnia and H.	0.00	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	0.58
Botswana	0.00	**Haiti**	0.00	**Myanmar**	0.19	**Tajikistan**	0.00
Brazil	2.85	**Honduras**	1.33	**Namibia**	4.16	**Tanzania**	0.00
Bulgaria	0.00	**Hungary**	25.63	**Nepal**	0.00	**Thailand**	12.04
Burkina Faso	0.00	**Iceland**	2.74	**Netherlands**	24.95	**Togo**	0.00
Burundi	0.00	**India**	1.93	**New Zealand**	9.17	**Trin. and Tob.**	1.03
Byelarus	0.00	**Indonesia**	1.35	**Nicaragua**	0.00	**Tunisia**	0.57
Cambodia	0.00	**Iran**	0.39	**Niger**	0.00	**Turkey**	2.16
Cameroon	0.00	**Iraq**	0.00	**Nigeria**	0.50	**Turkmenistan**	0.00
Canada	10.72	**Ireland**	23.58	**North Korea**	0.00	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	5.51	**Norway**	23.48	**Ukraine**	0.06
Chad	0.00	**Italy**	8.64	**Oman**	1.26	**United Ar. Em.**	9.82
Chile	1.30	**Ivory Coast**	0.00	**Pakistan**	0.17	**United King.**	19.84
China	1.90	**Jamaica**	1.10	**Panama**	0.00	**United States**	1.88
Colombia	0.85	**Japan**	23.16	**Papua N.G.**	0.00	**Uruguay**	7.35
Congo	0.00	**Jordan**	9.11	**Paraguay**	0.43	**Uzbekistan**	0.00
Costa Rica	11.12	**Kazakhstan**	0.00	**Peru**	1.15	**Venezuela**	0.50
Croatia	2.79	**Kenya**	0.68	**Philippines**	3.08	**Vietnam**	0.96
Cuba	0.00	**Kuwait**	0.00	**Poland**	7.91	**Zaire**	0.00
Czech Rep.	10.17	**Kyrgyzstan**	0.00	**Portugal**	3.06	**Zambia**	2.73
Denmark	64.32	**Laos**	0.00	**Romania**	0.36	**Zimbabwe**	1.19
Dom. Rep.	0.24	**Latvia**	2.71	**Russia**	0.11		
Ecuador	0.26	**Lebanon**	2.74	**Rwanda**	0.00		

Variable: IUCN

Name: IUCN member organizations per million population

Units: Organizations/Million Population **Reference Year:** 2001

Source Membership List, IUCN-The World Conservation Union, 1 August 2001

Logic: IUCN is the oldest international environmental membership organization, currently with over 900 members (governmental and NGO) worldwide, so it includes the most significant NGOs in each country

Methodology:

Mean	0.52	**Max**	7.02	**97.5 percentile cut-off value:**	2.58
Median	0.24	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.00	**Egypt**	0.04	**Liberia**	0.00	**Saudi Arabia**	0.14
Algeria	0.10	**El Salvador**	0.94	**Libya**	0.19	**Senegal**	0.41
Angola	0.24	**Estonia**	1.47	**Lithuania**	0.54	**Sierra Leone**	0.37
Argentina	0.56	**Ethiopia**	0.02	**Macedonia**	0.49	**Slovakia**	0.56
Armenia	0.00	**Finland**	0.96	**Madagascar**	0.06	**Slovenia**	0.50
Australia	1.96	**France**	0.52	**Malawi**	0.28	**Somalia**	0.00
Austria	0.74	**Gabon**	0.00	**Malaysia**	0.26	**South Africa**	0.48
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.55	**South Korea**	0.12
Bangladesh	0.11	**Germany**	0.21	**Mauritania**	0.73	**Spain**	0.75
Belgium	0.68	**Ghana**	0.15	**Mexico**	0.09	**Sri Lanka**	0.61
Benin	0.00	**Greece**	0.55	**Moldova**	0.47	**Sudan**	0.03
Bhutan	0.00	**Guatemala**	0.00	**Mongolia**	0.41	**Sweden**	0.79
Bolivia	0.94	**Guinea**	0.00	**Morocco**	0.21	**Switzerland**	1.11
Bosnia and H.	0.00	**Guinea-Bissau**	2.44	**Mozambique**	0.15	**Syria**	0.06
Botswana	5.04	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	0.00
Brazil	0.09	**Honduras**	0.74	**Namibia**	1.11	**Tanzania**	0.08
Bulgaria	0.25	**Hungary**	0.30	**Nepal**	0.38	**Thailand**	0.03
Burkina Faso	0.33	**Iceland**	7.02	**Netherlands**	1.37	**Togo**	0.19
Burundi	0.00	**India**	0.02	**New Zealand**	1.82	**Trin. and Tob.**	0.00
Byelarus	0.00	**Indonesia**	0.00	**Nicaragua**	0.38	**Tunisia**	0.52
Cambodia	0.00	**Iran**	0.00	**Niger**	0.19	**Turkey**	0.06
Cameroon	0.13	**Iraq**	0.00	**Nigeria**	0.03	**Turkmenistan**	0.18
Canada	1.00	**Ireland**	0.78	**North Korea**	0.05	**Uganda**	0.21
Central Af. R.	0.00	**Israel**	0.62	**Norway**	1.33	**Ukraine**	0.06
Chad	0.00	**Italy**	0.33	**Oman**	0.42	**United Ar. Em.**	0.60
Chile	0.19	**Ivory Coast**	0.00	**Pakistan**	0.15	**United King.**	0.73
China	0.01	**Jamaica**	1.52	**Panama**	2.76	**United States**	0.18
Colombia	0.28	**Japan**	0.17	**Papua N.G.**	0.20	**Uruguay**	1.49
Congo	0.64	**Jordan**	2.12	**Paraguay**	0.71	**Uzbekistan**	0.04
Costa Rica	2.15	**Kazakhstan**	0.27	**Peru**	0.31	**Venezuela**	0.28
Croatia	0.64	**Kenya**	0.24	**Philippines**	0.04	**Vietnam**	0.04
Cuba	0.09	**Kuwait**	1.32	**Poland**	0.21	**Zaire**	0.07
Czech Rep.	0.49	**Kyrgyzstan**	0.20	**Portugal**	0.40	**Zambia**	0.72
Denmark	1.31	**Laos**	0.19	**Romania**	0.13	**Zimbabwe**	1.76
Dom. Rep.	0.35	**Latvia**	0.42	**Russia**	0.06		
Ecuador	1.24	**Lebanon**	1.63	**Rwanda**	0.00		

Variable: MONFUN

Name: Montreal Protocol Multilateral Fund participation

Units: Standardized Scale (Z-Score) **Reference Year:** 2001

Source Report of the Thirty-Fourth Meeting of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol, UNEP/OzL.Pro/ExCom/34/58, 21 July 2001; Report of the Thirty-Third Meeting of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol, UNEP/OzL.Pro/ExCom/33/32, 30 March 2001; Report of the Thirty-Second Meeting of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol, UNEP/OzL.Pro/ExCom/32/44, 22 January 2001; Report of the 13th Meeting of the Sub-Committee on Monitoring, Evaluation and Finance, UNEP/OzL.Pro/ExCom/33/3, 27 March 2001.

Logic: Managing global environmental problems requires active financial participation, both among donors and recipients. The Montreal Protocol Multilateral Fund is a major organized effort to finance reductions in production and consumption of ozone-depleting substances.

Methodology: This score combines payments (contributions to the Montreal Protocol Multilateral Fund and bilateral payments credited under the terms of the Fund) and receipts by countries from the Fund. To make payments and receipts comparable, the two were first standardized, and countries were assigned the higher of the two possible z-scores. Payments were normalized by share of United Nations budget, and receipts were normalized by share of total Fund payments. Covers payments during 2000 and receipts during 2001.

Mean	0.65	**Max**	9.99	**97.5 percentile cut-off value:**	4.4
Median	-0.12	**Min**	-0.29	**2.5 percentile cut-off value:**	-0.29

Albania	-0.29	**Egypt**	-0.16	**Liberia**	-0.29	**Saudi Arabia**	-0.29
Algeria	0.15	**El Salvador**	-0.22	**Libya**	1.48	**Senegal**	0.45
Angola	-0.20	**Estonia**	4.47	**Lithuania**	-0.29	**Sierra Leone**	-0.29
Argentina	-0.12	**Ethiopia**	-0.29	**Macedonia**	5.17	**Slovakia**	2.56
Armenia	-0.29	**Finland**	2.97	**Madagascar**	-0.29	**Slovenia**	-0.29
Australia	2.85	**France**	2.88	**Malawi**	9.99	**Somalia**	-0.29
Austria	2.82	**Gabon**	-0.12	**Malaysia**	0.37	**South Africa**	-0.29
Azerbaijan	-0.29	**Gambia**	-0.06	**Mali**	0.37	**South Korea**	-0.29
Bangladesh	-0.29	**Germany**	3.47	**Mauritania**	0.61	**Spain**	2.93
Belgium	2.77	**Ghana**	0.37	**Mexico**	-0.20	**Sri Lanka**	0.12
Benin	3.23	**Greece**	0.01	**Moldova**	-0.29	**Sudan**	-0.17
Bhutan	-0.29	**Guatemala**	-0.29	**Mongolia**	1.54	**Sweden**	2.35
Bolivia	-0.06	**Guinea**	-0.18	**Morocco**	0.93	**Switzerland**	-0.29
Bosnia and H.	-0.29	**Guinea-Bissau**	-0.29	**Mozambique**	-0.29	**Syria**	1.17
Botswana	-0.29	**Haiti**	-0.06	**Myanmar**	-0.29	**Tajikistan**	-0.29
Brazil	0.00	**Honduras**	-0.08	**Namibia**	-0.29	**Tanzania**	-0.29
Bulgaria	4.34	**Hungary**	2.84	**Nepal**	-0.29	**Thailand**	-0.09
Burkina Faso	0.71	**Iceland**	2.76	**Netherlands**	2.65	**Togo**	-0.29
Burundi	0.04	**India**	0.21	**New Zealand**	2.58	**Trin. and Tob.**	-0.10
Byelarus	-0.29	**Indonesia**	-0.27	**Nicaragua**	-0.17	**Tunisia**	0.08
Cambodia	-0.29	**Iran**	0.61	**Niger**	-0.02	**Turkey**	-0.17
Cameroon	-0.24	**Iraq**	-0.29	**Nigeria**	0.68	**Turkmenistan**	-0.29
Canada	3.09	**Ireland**	2.08	**North Korea**	-0.29	**Uganda**	0.13
Central Af. R.	1.52	**Israel**	-0.29	**Norway**	2.26	**Ukraine**	-0.29
Chad	-0.29	**Italy**	-0.29	**Oman**	0.71	**United Ar. Em.**	-0.29
Chile	0.02	**Ivory Coast**	-0.29	**Pakistan**	-0.22	**United King.**	2.59
China	0.05	**Jamaica**	-0.29	**Panama**	-0.29	**United States**	2.85
Colombia	0.05	**Japan**	2.92	**Papua N.G.**	-0.29	**Uruguay**	0.68
Congo	2.72	**Jordan**	4.08	**Paraguay**	1.48	**Uzbekistan**	-0.29
Costa Rica	-0.18	**Kazakhstan**	-0.29	**Peru**	-0.29	**Venezuela**	0.03
Croatia	-0.25	**Kenya**	-0.12	**Philippines**	-0.29	**Vietnam**	-0.05
Cuba	-0.05	**Kuwait**	-0.29	**Poland**	1.53	**Zaire**	-0.13
Czech Rep.	1.71	**Kyrgyzstan**	-0.29	**Portugal**	-0.29	**Zambia**	-0.29
Denmark	2.60	**Laos**	1.67	**Romania**	-0.10	**Zimbabwe**	-0.08
Dom. Rep.	-0.27	**Latvia**	-0.29	**Russia**	-0.29		
Ecuador	-0.25	**Lebanon**	3.18	**Rwanda**	-0.29		

Variable: NO2

Name: Urban NO_2 concentration

Units: Micrograms/m3 **Reference Year:** MRYA 1990-1996

Source: World Resources Institute, World Resources 1998-99; World Bank, World Development Indicators 2000; WHO, Air Management Information System-AMIS 2.0, 1998; and Global Urban Observatory, Citibase, 1999.

Logic: Indicator of Urban Air Quality.

Methodology: The values were originally collected at the city level. The number of city with data provided by each country varied. Within each country the values have been normalized by city population for the year 1995, then summed to give the total concentration for the given country.

Mean	56.4	**Max**	209	**97.5 percentile cut-off value:**	150.64
Median	47.53	**Min**	1	**2.5 percentile cut-off value:**	2.9

Albania	[60.89]	**Egypt**	[43.83]	**Liberia**	[61.49]	**Saudi Arabia**	[81.06]
Algeria	[53.26]	**El Salvador**	70.50	**Libya**	[46.57]	**Senegal**	[69.4]
Angola	[62.73]	**Estonia**	[49.62]	**Lithuania**	28.31	**Sierra Leone**	[68.27]
Argentina	56.79	**Ethiopia**	[29.96]	**Macedonia**	[54.15]	**Slovakia**	25.62
Armenia	[43.88]	**Finland**	30.69	**Madagascar**	[74.32]	**Slovenia**	[70.59]
Australia	16.47	**France**	56.61	**Malawi**	[50.96]	**Somalia**	[37.88]
Austria	39.75	**Gabon**	[54.6]	**Malaysia**	0.00	**South Africa**	44.03
Azerbaijan	[55.98]	**Gambia**	[72.72]	**Mali**	[60.58]	**South Korea**	52.86
Bangladesh	[31.4]	**Germany**	40.07	**Mauritania**	[39.99]	**Spain**	32.36
Belgium	46.79	**Ghana**	[78.99]	**Mexico**	130.00	**Sri Lanka**	[10.27]
Benin	[83.02]	**Greece**	64.00	**Moldova**	[48.89]	**Sudan**	[45.76]
Bhutan	[42.04]	**Guatemala**	69.33	**Mongolia**	[48.34]	**Sweden**	29.68
Bolivia	[56.14]	**Guinea**	[69.79]	**Morocco**	[59.76]	**Switzerland**	42.20
Bosnia and H.	[69.78]	**Guinea-Bissau**	[60.83]	**Mozambique**	[69.3]	**Syria**	[41.83]
Botswana	[31.08]	**Haiti**	[67.05]	**Myanmar**	[65.36]	**Tajikistan**	[57.04]
Brazil	51.37	**Honduras**	29.50	**Namibia**	[32.01]	**Tanzania**	[15.78]
Bulgaria	111.14	**Hungary**	45.11	**Nepal**	[53.45]	**Thailand**	23.00
Burkina Faso	[13.09]	**Iceland**	42.00	**Netherlands**	58.00	**Togo**	[67.58]
Burundi	[22.28]	**India**	29.68	**New Zealand**	19.51	**Trin. and Tob.**	[19.84]
Byelarus	42.60	**Indonesia**	[34.62]	**Nicaragua**	32.00	**Tunisia**	[55.3]
Cambodia	[55.61]	**Iran**	[33.3]	**Niger**	[54.95]	**Turkey**	9.45
Cameroon	[51.6]	**Iraq**	[54.84]	**Nigeria**	[28.68]	**Turkmenistan**	[78.54]
Canada	41.24	**Ireland**	[24.02]	**North Korea**	[43.24]	**Uganda**	[66.8]
Central Af. R.	[45.32]	**Israel**	35.55	**Norway**	49.65	**Ukraine**	[59.59]
Chad	[41.48]	**Italy**	124.38	**Oman**	[42.24]	**United Ar. Em.**	[93.7]
Chile	81.00	**Ivory Coast**	[62.85]	**Pakistan**	[63.59]	**United King.**	64.47
China	71.72	**Jamaica**	[46.73]	**Panama**	42.00	**United States**	60.57
Colombia	[77.84]	**Japan**	62.01	**Papua N.G.**	[45.41]	**Uruguay**	[49.92]
Congo	[67.23]	**Jordan**	[33.55]	**Paraguay**	[81.35]	**Uzbekistan**	[52.12]
Costa Rica	45.75	**Kazakhstan**	[52.39]	**Peru**	[38.5]	**Venezuela**	57.00
Croatia	[49.24]	**Kenya**	[71.05]	**Philippines**	[46.18]	**Vietnam**	[65.5]
Cuba	5.00	**Kuwait**	[61.33]	**Poland**	58.14	**Zaire**	[44.21]
Czech Rep.	28.59	**Kyrgyzstan**	[37.59]	**Portugal**	49.57	**Zambia**	[77.89]
Denmark	54.00	**Laos**	[39.33]	**Romania**	71.00	**Zimbabwe**	[47.56]
Dom. Rep.	[44.3]	**Latvia**	63.74	**Russia**	3.44		
Ecuador	[35.71]	**Lebanon**	[20.84]	**Rwanda**	[62.88]		

Variable: NOXKM

Name: NOx emissions per populated land area

Units: 1000 Metric Tons/Sq. Km. of Populated Land Area **Reference Year:** 2000

Source Intergovernmental Panel on Climate Change: Special Report on Emissions Scenarios, Data Version 1.1, B1 Illustrative Marker Scenario with model IMAGE. Available at http://sres.ciesin.columbia.edu/final_data.html

Logic: Indicator of air pollution: emissions contibute to declines in air quality.The use of a Gridded dataset gives more detailed information about the distribution of pollution sources and permits a better estimate of total emissions within each country.

Methodology: The gridded emissions data, originally available as 1x1 degree cells, were summarized at the country level to give the total emissions for each country. Air pollution is generally greatest in densely populated areas. To take this into account, we used the Gridded Population of the World dataset available from CIESIN and calculated the total land area in each country inhabited with a population density of greater than 5 persons per sq. km. We then utilized this land area as the denominator for the emissions data.

Mean	0.52	**Max**	6.34	**97.5 percentile cut-off value:**	3.05
Median	0.23	**Min**	0.01	**2.5 percentile cut-off value:**	0.04

Albania	0.07	**Egypt**	2.18	**Liberia**	0.27	**Saudi Arabia**	0.20
Algeria	0.86	**El Salvador**	0.07	**Libya**	6.34	**Senegal**	0.20
Angola	0.33	**Estonia**	0.09	**Lithuania**	0.21	**Sierra Leone**	0.48
Argentina	0.11	**Ethiopia**	0.13	**Macedonia**	0.15	**Slovakia**	0.27
Armenia	0.45	**Finland**	0.19	**Madagascar**	0.11	**Slovenia**	0.17
Australia	1.00	**France**	0.99	**Malawi**	0.16	**Somalia**	0.05
Austria	0.46	**Gabon**	0.11	**Malaysia**	0.21	**South Africa**	0.64
Azerbaijan	0.29	**Gambia**	[0.12]	**Mali**	0.12	**South Korea**	1.24
Bangladesh	0.67	**Germany**	1.82	**Mauritania**	0.20	**Spain**	0.44
Belgium	3.43	**Ghana**	0.29	**Mexico**	0.38	**Sri Lanka**	0.15
Benin	0.14	**Greece**	0.47	**Moldova**	0.09	**Sudan**	0.18
Bhutan	0.07	**Guatemala**	0.24	**Mongolia**	0.16	**Sweden**	0.27
Bolivia	0.21	**Guinea**	0.08	**Morocco**	0.10	**Switzerland**	0.95
Bosnia and H.	0.16	**Guinea-Bissau**	0.13	**Mozambique**	0.13	**Syria**	0.21
Botswana	2.65	**Haiti**	0.03	**Myanmar**	0.19	**Tajikistan**	0.16
Brazil	0.34	**Honduras**	0.14	**Namibia**	1.84	**Tanzania**	0.19
Bulgaria	0.19	**Hungary**	0.23	**Nepal**	0.93	**Thailand**	0.45
Burkina Faso	0.16	**Iceland**	1.76	**Netherlands**	1.51	**Togo**	0.19
Burundi	0.23	**India**	0.52	**New Zealand**	0.16	**Trin. and Tob.**	[0.57]
Byelarus	0.20	**Indonesia**	0.18	**Nicaragua**	0.09	**Tunisia**	0.22
Cambodia	1.31	**Iran**	0.12	**Niger**	0.16	**Turkey**	0.33
Cameroon	0.17	**Iraq**	0.31	**Nigeria**	0.24	**Turkmenistan**	0.17
Canada	1.15	**Ireland**	0.45	**North Korea**	1.18	**Uganda**	0.26
Central Af. R.	0.61	**Israel**	0.76	**Norway**	0.26	**Ukraine**	0.36
Chad	0.17	**Italy**	1.00	**Oman**	0.09	**United Ar. Em.**	4.99
Chile	0.10	**Ivory Coast**	0.26	**Pakistan**	0.25	**United King.**	2.76
China	0.75	**Jamaica**	0.20	**Panama**	0.05	**United States**	1.29
Colombia	0.26	**Japan**	1.50	**Papua N.G.**	0.01	**Uruguay**	0.09
Congo	0.26	**Jordan**	0.30	**Paraguay**	0.38	**Uzbekistan**	0.16
Costa Rica	0.03	**Kazakhstan**	0.14	**Peru**	0.07	**Venezuela**	0.41
Croatia	0.18	**Kenya**	0.22	**Philippines**	0.31	**Vietnam**	0.56
Cuba	0.16	**Kuwait**	1.05	**Poland**	0.28	**Zaire**	0.15
Czech Rep.	0.43	**Kyrgyzstan**	0.08	**Portugal**	0.22	**Zambia**	0.41
Denmark	1.01	**Laos**	0.29	**Romania**	0.27	**Zimbabwe**	0.21
Dom. Rep.	0.06	**Latvia**	0.04	**Russia**	0.44		
Ecuador	0.21	**Lebanon**	1.22	**Rwanda**	0.32		

Variable: NUKE

Name: Nuclear waste generated

Units: Standardized Scale (z-score) **Reference Year:** 1996

Source International Atomic Energy Agency, Waste Management Database, 1997

Logic: Radioactive waste, as a source of ionizing radiation, has long been recognized as a potential hazard to human health. Many practices in the fields of research, medicine, industry and generation of electricity generate waste that requires management to ensure the protection of human health and the environment now and in the future, without imposing undue burdens on future generations (The Principle of Radioactive Waste Management, IAEA, 1997).

Methodology: Two variables were initially available for Radioactive Waste: Accumulated Quantity (cubic meters) as generated and Accumulated Quantity (cubic meters) after treatment. We calculated the z-scores for the two variables, in order to make them comparable, and took which ever variable was available for each country. For the three countries (Australia, Canada and Czech Republic) which had both variables, we took the higher.

Mean	0.03	**Max**	4.36	**97.5 percentile cut-off value:**	4.3
Median	-0.33	**Min**	-0.36	**2.5 percentile cut-off value:**	-0.36

Albania	-0.33	**Egypt**	-0.33	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	--	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	-0.36	**Lithuania**	-0.10	**Sierra Leone**	--
Argentina	-0.35	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	-0.24
Armenia	--	**Finland**	-0.34	**Madagascar**	--	**Slovenia**	-0.35
Australia	-0.34	**France**	2.18	**Malawi**	--	**Somalia**	--
Austria	--	**Gabon**	--	**Malaysia**	-0.33	**South Africa**	-0.23
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	-0.30
Bangladesh	--	**Germany**	0.19	**Mauritania**	--	**Spain**	-0.26
Belgium	-0.31	**Ghana**	--	**Mexico**	-0.33	**Sri Lanka**	--
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	-0.33	**Mongolia**	--	**Sweden**	-0.23
Bolivia	--	**Guinea**	--	**Morocco**	--	**Switzerland**	-0.32
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	-0.34	**Honduras**	--	**Namibia**	--	**Tanzania**	--
Bulgaria	-0.20	**Hungary**	-0.34	**Nepal**	--	**Thailand**	-0.36
Burkina Faso	--	**Iceland**	--	**Netherlands**	-0.32	**Togo**	--
Burundi	--	**India**	-0.06	**New Zealand**	--	**Trin. and Tob.**	--
Byelarus	-0.32	**Indonesia**	-0.36	**Nicaragua**	--	**Tunisia**	-0.33
Cambodia	--	**Iran**	-0.33	**Niger**	--	**Turkey**	-0.36
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	0.66	**Ireland**	--	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	--	**Norway**	-0.35	**Ukraine**	4.36
Chad	--	**Italy**	-0.19	**Oman**	--	**United Ar. Em.**	--
Chile	-0.36	**Ivory Coast**	--	**Pakistan**	--	**United King.**	3.98
China	--	**Jamaica**	--	**Panama**	--	**United States**	1.67
Colombia	--	**Japan**	--	**Papua N.G.**	--	**Uruguay**	--
Congo	--	**Jordan**	--	**Paraguay**	--	**Uzbekistan**	-0.33
Costa Rica	--	**Kazakhstan**	--	**Peru**	--	**Venezuela**	--
Croatia	--	**Kenya**	--	**Philippines**	--	**Vietnam**	--
Cuba	-0.33	**Kuwait**	--	**Poland**	-0.35	**Zaire**	--
Czech Rep.	-0.28	**Kyrgyzstan**	--	**Portugal**	-0.36	**Zambia**	--
Denmark	-0.35	**Laos**	--	**Romania**	-0.31	**Zimbabwe**	--
Dom. Rep.	--	**Latvia**	--	**Russia**	--		
Ecuador	--	**Lebanon**	--	**Rwanda**	--		

Variable: PESTHA
Name: Pesticide use
Units: Kg/Hectare of Cropland **Reference Year:** 1996
Source World Resource Institute, World Resources 2000-2001, Washington, DC: WRI, 2000.
Logic: Excessive use of pesticides in agricultural activities has a negative impact on soil, water, humans and wildlife.
Methodology:

Mean	3088.19	**Max**	24125	**97.5 percentile cut-off value:**	16753.29
Median	1760.3	**Min**	1	**2.5 percentile cut-off value:**	16.58

Albania	435.00	**Egypt**	1293.00	**Liberia**	[3187.75]	**Saudi Arabia**	[3636.09]
Algeria	835.00	**El Salvador**	2642.00	**Libya**	[5535.85]	**Senegal**	183.00
Angola	42.00	**Estonia**	105.00	**Lithuania**	312.00	**Sierra Leone**	[4865.61]
Argentina	1266.00	**Ethiopia**	34.00	**Macedonia**	7718.00	**Slovakia**	4148.00
Armenia	[1458.6]	**Finland**	410.00	**Madagascar**	28.00	**Slovenia**	6389.00
Australia	2535.00	**France**	[2926.41]	**Malawi**	[5746.72]	**Somalia**	[2605.53]
Austria	2710.00	**Gabon**	[3041.56]	**Malaysia**	5982.00	**South Africa**	57.00
Azerbaijan	[3257.84]	**Gambia**	46.00	**Mali**	136.00	**South Korea**	13829.00
Bangladesh	176.00	**Germany**	2085.00	**Mauritania**	[1098.19]	**Spain**	[4231.99]
Belgium	[6653.81]	**Ghana**	2333.00	**Mexico**	[3474.48]	**Sri Lanka**	6271.00
Benin	[1043.74]	**Greece**	[5033.87]	**Moldova**	1434.00	**Sudan**	106.00
Bhutan	670.00	**Guatemala**	574.00	**Mongolia**	[1463.19]	**Sweden**	509.00
Bolivia	1514.00	**Guinea**	83.00	**Morocco**	[626.36]	**Switzerland**	4576.00
Bosnia and H.	[721.76]	**Guinea-Bissau**	274.00	**Mozambique**	[565.82]	**Syria**	[4761.05]
Botswana	40.00	**Haiti**	23.00	**Myanmar**	16.00	**Tajikistan**	[4483.9]
Brazil	836.00	**Honduras**	6521.00	**Namibia**	[5079.5]	**Tanzania**	[579.69]
Bulgaria	966.00	**Hungary**	2863.00	**Nepal**	21.00	**Thailand**	1116.00
Burkina Faso	1.00	**Iceland**	[14190.4]	**Netherlands**	11842.00	**Togo**	95.00
Burundi	268.00	**India**	436.00	**New Zealand**	2215.00	**Trin. and Tob.**	11827.00
Byelarus	[3226.19]	**Indonesia**	88.00	**Nicaragua**	357.00	**Tunisia**	[4335.49]
Cambodia	[3581.9]	**Iran**	1881.00	**Niger**	[3267.22]	**Turkey**	1145.00
Cameroon	253.00	**Iraq**	[2769.33]	**Nigeria**	[4466.61]	**Turkmenistan**	6744.00
Canada	644.00	**Ireland**	[10952.15]	**North Korea**	[450.4]	**Uganda**	17.00
Central Af. R.	12.00	**Israel**	[4482.06]	**Norway**	941.00	**Ukraine**	2001.00
Chad	223.00	**Italy**	19288.00	**Oman**	24125.00	**United Ar. Em.**	[15295.21]
Chile	3240.00	**Ivory Coast**	[1828.76]	**Pakistan**	365.00	**United King.**	4745.00
China	[4403.59]	**Jamaica**	[4730.17]	**Panama**	[3467.54]	**United States**	1599.00
Colombia	6134.00	**Japan**	[7592.05]	**Papua N.G.**	1750.00	**Uruguay**	1316.00
Congo	216.00	**Jordan**	1495.00	**Paraguay**	1542.00	**Uzbekistan**	[2369.4]
Costa Rica	18726.00	**Kazakhstan**	[2943.15]	**Peru**	[1533.57]	**Venezuela**	1403.00
Croatia	3060.00	**Kenya**	[3233.01]	**Philippines**	[4155.62]	**Vietnam**	[7888.77]
Cuba	[4055.46]	**Kuwait**	[6192.79]	**Poland**	490.00	**Zaire**	[2921.01]
Czech Rep.	1169.00	**Kyrgyzstan**	1860.00	**Portugal**	2584.00	**Zambia**	317.00
Denmark	2200.00	**Laos**	57.00	**Romania**	1617.00	**Zimbabwe**	531.00
Dom. Rep.	[1770.6]	**Latvia**	208.00	**Russia**	407.00		
Ecuador	1696.00	**Lebanon**	[8809.02]	**Rwanda**	260.00		

Variable: POLITY

Name: Democratic institutions

Units: Scale ranging from 10 (autocratic) to +10 (democratic) **Reference Year:** 1999

Source Polity IV Project, University of Maryland, at http://www.bsos.umd.edu/cidcm/inscr/index.htm#polity

Logic: The presence of democratic institutions increases the likelihood that important environmental issues will be debated, that alternative views will be aired, and that decision-making and implementation will be carried out in an open manner. These factors improve the quality of environmental governance.

Methodology:

Mean	3.06	**Max**	10	**97.5 percentile cut-off value:**	10
Median	6	**Min**	-10	**2.5 percentile cut-off value:**	-9

Albania	5.00	**Egypt**	-6.00	**Liberia**	0.00	**Saudi Arabia**	-10.00
Algeria	-2.00	**El Salvador**	7.00	**Libya**	-7.00	**Senegal**	-1.00
Angola	-3.00	**Estonia**	6.00	**Lithuania**	10.00	**Sierra Leone**	4.00
Argentina	7.00	**Ethiopia**	1.00	**Macedonia**	6.00	**Slovakia**	9.00
Armenia	5.00	**Finland**	10.00	**Madagascar**	6.00	**Slovenia**	10.00
Australia	10.00	**France**	9.00	**Malawi**	7.00	**Somalia**	-7.00
Austria	10.00	**Gabon**	-4.00	**Malaysia**	4.00	**South Africa**	9.00
Azerbaijan	-7.00	**Gambia**	-5.00	**Mali**	4.00	**South Korea**	8.00
Bangladesh	6.00	**Germany**	10.00	**Mauritania**	-6.00	**Spain**	10.00
Belgium	10.00	**Ghana**	2.00	**Mexico**	6.00	**Sri Lanka**	6.00
Benin	6.00	**Greece**	10.00	**Moldova**	6.00	**Sudan**	-7.00
Bhutan	-8.00	**Guatemala**	6.00	**Mongolia**	10.00	**Sweden**	10.00
Bolivia	8.00	**Guinea**	-1.00	**Morocco**	-6.00	**Switzerland**	10.00
Bosnia and H.	--	**Guinea-Bissau**	5.00	**Mozambique**	6.00	**Syria**	-9.00
Botswana	9.00	**Haiti**	6.00	**Myanmar**	-7.00	**Tajikistan**	-1.00
Brazil	8.00	**Honduras**	7.00	**Namibia**	6.00	**Tanzania**	-1.00
Bulgaria	9.00	**Hungary**	10.00	**Nepal**	6.00	**Thailand**	9.00
Burkina Faso	-1.00	**Iceland**	10.00	**Netherlands**	10.00	**Togo**	-2.00
Burundi	-2.00	**India**	9.00	**New Zealand**	10.00	**Trin. and Tob.**	10.00
Byelarus	-7.00	**Indonesia**	7.00	**Nicaragua**	9.00	**Tunisia**	-3.00
Cambodia	2.00	**Iran**	3.00	**Niger**	4.00	**Turkey**	7.00
Cameroon	-4.00	**Iraq**	-9.00	**Nigeria**	4.00	**Turkmenistan**	-8.00
Canada	10.00	**Ireland**	10.00	**North Korea**	-9.00	**Uganda**	-1.00
Central Af. R.	6.00	**Israel**	10.00	**Norway**	10.00	**Ukraine**	6.00
Chad	-2.00	**Italy**	10.00	**Oman**	-9.00	**United Ar. Em.**	-8.00
Chile	7.00	**Ivory Coast**	-6.00	**Pakistan**	-6.00	**United King.**	10.00
China	-7.00	**Jamaica**	9.00	**Panama**	7.00	**United States**	10.00
Colombia	8.00	**Japan**	10.00	**Papua N.G.**	10.00	**Uruguay**	9.00
Congo	-6.00	**Jordan**	-2.00	**Paraguay**	6.00	**Uzbekistan**	-9.00
Costa Rica	10.00	**Kazakhstan**	-3.00	**Peru**	3.00	**Venezuela**	7.00
Croatia	-5.00	**Kenya**	-2.00	**Philippines**	7.00	**Vietnam**	-7.00
Cuba	-7.00	**Kuwait**	-7.00	**Poland**	10.00	**Zaire**	-8.00
Czech Rep.	9.00	**Kyrgyzstan**	4.00	**Portugal**	10.00	**Zambia**	1.00
Denmark	10.00	**Laos**	-8.00	**Romania**	7.00	**Zimbabwe**	-6.00
Dom. Rep.	8.00	**Latvia**	7.00	**Russia**	5.00		
Ecuador	8.00	**Lebanon**	5.00	**Rwanda**	-4.00		

Variable: PRAREA

Name: Percent of land area under protected status

Units: Percent Land Area **Reference Year:** 1998

Source World Conservation Monitoring Centre Protected Areas Database. Data Provider: World Conservation Monitoring Centre (WCMC), 1999, accessed at http://www.unep-wcmc.org/protected_areas/data/un_annex.htm

Logic: The percentage of land area dedicated to protected areas represents an investment by the country in biodiversity conservation.

Methodology: Marine protected areas were subtracted from the total area of protected areas so as to limit the focus to land-based ecosystem protection.

Mean	8.37	**Max**	60.72	**97.5 percentile cut-off value:**	29.6
Median	6.195	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	3.57	**Egypt**	0.12	**Liberia**	1.16	**Saudi Arabia**	34.17
Algeria	2.44	**El Salvador**	0.24	**Libya**	0.08	**Senegal**	10.97
Angola	4.58	**Estonia**	8.66	**Lithuania**	9.90	**Sierra Leone**	2.12
Argentina	3.22	**Ethiopia**	16.93	**Macedonia**	7.05	**Slovakia**	21.64
Armenia	7.16	**Finland**	8.42	**Madagascar**	2.07	**Slovenia**	5.94
Australia	7.54	**France**	9.02	**Malawi**	11.25	**Somalia**	0.30
Austria	29.23	**Gabon**	2.70	**Malaysia**	4.36	**South Africa**	5.14
Azerbaijan	5.52	**Gambia**	0.38	**Mali**	3.65	**South Korea**	6.95
Bangladesh	0.68	**Germany**	25.24	**Mauritania**	0.54	**Spain**	8.36
Belgium	2.81	**Ghana**	5.32	**Mexico**	5.74	**Sri Lanka**	11.69
Benin	11.21	**Greece**	0.92	**Moldova**	1.50	**Sudan**	4.88
Bhutan	21.40	**Guatemala**	19.90	**Mongolia**	10.31	**Sweden**	8.28
Bolivia	16.22	**Guinea**	0.67	**Morocco**	0.68	**Switzerland**	18.04
Bosnia and H.	0.52	**Guinea-Bissau**	0.00	**Mozambique**	6.31	**Syria**	0.00
Botswana	18.26	**Haiti**	0.35	**Myanmar**	0.26	**Tajikistan**	4.10
Brazil	5.92	**Honduras**	8.55	**Namibia**	13.61	**Tanzania**	27.74
Bulgaria	4.51	**Hungary**	6.98	**Nepal**	8.98	**Thailand**	12.74
Burkina Faso	10.42	**Iceland**	9.54	**Netherlands**	10.78	**Togo**	7.56
Burundi	5.25	**India**	4.07	**New Zealand**	23.84	**Trin. and Tob.**	3.95
Byelarus	4.22	**Indonesia**	14.54	**Nicaragua**	10.73	**Tunisia**	0.25
Cambodia	17.97	**Iran**	5.04	**Niger**	8.17	**Turkey**	1.20
Cameroon	3.44	**Iraq**	0.00	**Nigeria**	3.27	**Turkmenistan**	3.51
Canada	7.79	**Ireland**	0.94	**North Korea**	2.58	**Uganda**	20.78
Central Af. R.	8.71	**Israel**	15.68	**Norway**	6.25	**Ukraine**	1.34
Chad	8.95	**Italy**	7.29	**Oman**	12.50	**United Ar. Em.**	0.00
Chile	18.74	**Ivory Coast**	6.15	**Pakistan**	4.66	**United King.**	17.73
China	7.05	**Jamaica**	8.60	**Panama**	19.08	**United States**	20.13
Colombia	7.65	**Japan**	5.49	**Papua N.G.**	1.49	**Uruguay**	0.25
Congo	4.55	**Jordan**	3.10	**Paraguay**	3.44	**Uzbekistan**	1.83
Costa Rica	19.21	**Kazakhstan**	2.70	**Peru**	5.00	**Venezuela**	60.72
Croatia	6.38	**Kenya**	7.64	**Philippines**	2.17	**Vietnam**	2.93
Cuba	3.21	**Kuwait**	1.04	**Poland**	9.28	**Zaire**	6.24
Czech Rep.	16.20	**Kyrgyzstan**	3.50	**Portugal**	5.68	**Zambia**	30.09
Denmark	23.96	**Laos**	11.64	**Romania**	4.59	**Zimbabwe**	12.80
Dom. Rep.	13.08	**Latvia**	6.62	**Russia**	2.46		
Ecuador	16.16	**Lebanon**	0.46	**Rwanda**	15.06		

Variable: PRTBRD

Name: Percentage of breeding birds threatened

Units: Percent of Breeding Birds **Reference Year:** 2000

Source 2000 IUCN Red List, http://www.redlist.org/info/tables/table3.html, and World Resources Institute, World Resources 2000-2001, Washington, DC: WRI, 2000. Original sources: World Conservation Monitoring Center, IUCN-The World Conservation Union, Food and Agriculture Organization of the United Nations and other sources. http://earthtrends.wri.org

Logic: The percent of breeding birds threatened gives an estimate of a country's success at preserving its biodiversity.

Methodology: The number of bird species threatened divided by known bird species in the country, expressed as a percentage.

Mean	4.34	**Max**	35	**97.5 percentile cut-off value:**	28.01
Median	2.52	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	1.30	**Egypt**	4.58	**Liberia**	2.96	**Saudi Arabia**	9.68
Algeria	3.13	**El Salvador**	0.00	**Libya**	1.10	**Senegal**	1.04
Angola	1.96	**Estonia**	1.41	**Lithuania**	1.98	**Sierra Leone**	2.15
Argentina	4.24	**Ethiopia**	2.56	**Macedonia**	1.43	**Slovakia**	1.91
Armenia	1.65	**Finland**	1.21	**Madagascar**	13.37	**Slovenia**	0.48
Australia	4.93	**France**	1.86	**Malawi**	2.11	**Somalia**	2.37
Austria	1.41	**Gabon**	1.07	**Malaysia**	7.28	**South Africa**	3.36
Azerbaijan	3.23	**Gambia**	0.71	**Mali**	1.01	**South Korea**	22.32
Bangladesh	7.80	**Germany**	2.09	**Mauritania**	0.73	**Spain**	2.52
Belgium	1.11	**Ghana**	1.51	**Mexico**	4.92	**Sri Lanka**	5.60
Benin	0.65	**Greece**	2.79	**Moldova**	2.82	**Sudan**	0.88
Bhutan	2.68	**Guatemala**	1.31	**Mongolia**	3.76	**Sweden**	0.80
Bolivia	--	**Guinea**	2.44	**Morocco**	4.29	**Switzerland**	1.04
Bosnia and H.	1.38	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	3.92
Botswana	1.81	**Haiti**	18.67	**Myanmar**	4.04	**Tajikistan**	--
Brazil	7.53	**Honduras**	1.18	**Namibia**	1.92	**Tanzania**	3.99
Bulgaria	4.17	**Hungary**	3.90	**Nepal**	4.26	**Thailand**	6.01
Burkina Faso	0.60	**Iceland**	0.00	**Netherlands**	2.09	**Togo**	0.00
Burundi	1.55	**India**	7.56	**New Zealand**	32.67	**Trin. and Tob.**	0.38
Byelarus	1.36	**Indonesia**	7.39	**Nicaragua**	1.04	**Tunisia**	2.89
Cambodia	6.19	**Iran**	4.02	**Niger**	1.00	**Turkey**	3.64
Cameroon	2.17	**Iraq**	6.40	**Nigeria**	1.32	**Turkmenistan**	--
Canada	1.88	**Ireland**	0.70	**North Korea**	16.52	**Uganda**	1.57
Central Af. R.	0.56	**Israel**	6.67	**Norway**	0.82	**Ukraine**	3.04
Chad	1.35	**Italy**	2.14	**Oman**	9.35	**United Ar. Em.**	11.94
Chile	5.07	**Ivory Coast**	2.24	**Pakistan**	4.53	**United King.**	0.87
China	6.62	**Jamaica**	10.62	**Panama**	2.19	**United States**	8.31
Colombia	4.53	**Japan**	12.80	**Papua N.G.**	4.90	**Uruguay**	4.64
Congo	0.67	**Jordan**	5.67	**Paraguay**	4.68	**Uzbekistan**	--
Costa Rica	2.17	**Kazakhstan**	3.79	**Peru**	4.61	**Venezuela**	1.79
Croatia	1.79	**Kenya**	2.83	**Philippines**	34.18	**Vietnam**	6.54
Cuba	13.14	**Kuwait**	35.00	**Poland**	1.76	**Zaire**	3.01
Czech Rep.	1.01	**Kyrgyzstan**	--	**Portugal**	3.38	**Zambia**	1.82
Denmark	0.51	**Laos**	3.90	**Romania**	3.24	**Zimbabwe**	1.88
Dom. Rep.	11.03	**Latvia**	1.38	**Russia**	6.05		
Ecuador	4.32	**Lebanon**	4.55	**Rwanda**	1.75		

Variable: PRTMAM

Name: Percentage of mammals threatened

Units: Percent of Mammals **Reference Year:** 2000

Source 2000 IUCN Red List, http://www.redlist.org/info/tables/table3.html, and World Resources Institute, World Resources 2000-2001, Washington, DC: WRI, 2000. Original sources: World Conservation Monitoring Center, IUCN-The World Conservation Union, Food and Agriculture Organization of the United Nations and other sources. http://earthtrends.wri.org

Logic: The percent of mammals threatened gives an estimate of a country's success at preserving its biodiversity.

Methodology: Number of mammal species threatened divided by known mammal species in the country, expressed as a percentage. Note that due to inconsistencies in the taxonomies used in the two lists utilized to develop this variable, Haiti appears to have over 100 percent of its mammal species threatened.

Mean	13.98	**Max**	133.33	**97.5 percentile cut-off value:**	44.06
Median	11.27	**Min**	0	**2.5 percentile cut-off value:**	1.69

Albania	4.41	**Egypt**	12.24	**Liberia**	8.29	**Saudi Arabia**	9.09
Algeria	14.13	**El Salvador**	1.48	**Libya**	11.84	**Senegal**	5.73
Angola	6.52	**Estonia**	7.69	**Lithuania**	7.35	**Sierra Leone**	7.48
Argentina	10.00	**Ethiopia**	13.33	**Macedonia**	14.10	**Slovakia**	10.59
Armenia	8.33	**Finland**	10.00	**Madagascar**	35.46	**Slovenia**	12.00
Australia	24.23	**France**	19.35	**Malawi**	4.10	**Somalia**	11.11
Austria	10.84	**Gabon**	7.89	**Malaysia**	15.67	**South Africa**	16.08
Azerbaijan	13.13	**Gambia**	2.56	**Mali**	9.49	**South Korea**	26.53
Bangladesh	19.27	**Germany**	15.79	**Mauritania**	16.39	**Spain**	29.27
Belgium	18.97	**Ghana**	5.86	**Mexico**	14.05	**Sri Lanka**	22.73
Benin	3.72	**Greece**	14.74	**Moldova**	4.41	**Sudan**	8.99
Bhutan	20.20	**Guatemala**	2.40	**Mongolia**	9.02	**Sweden**	13.33
Bolivia	7.28	**Guinea**	5.79	**Morocco**	15.24	**Switzerland**	8.00
Bosnia and H.	13.89	**Guinea-Bissau**	1.85	**Mozambique**	0.00	**Syria**	6.35
Botswana	3.05	**Haiti**	133.33	**Myanmar**	14.34	**Tajikistan**	10.71
Brazil	18.94	**Honduras**	5.20	**Namibia**	5.60	**Tanzania**	13.61
Bulgaria	18.52	**Hungary**	10.84	**Nepal**	14.92	**Thailand**	12.83
Burkina Faso	4.76	**Iceland**	54.55	**Netherlands**	20.00	**Togo**	4.59
Burundi	4.67	**India**	27.22	**New Zealand**	80.00	**Trin. and Tob.**	1.00
Byelarus	6.76	**Indonesia**	30.63	**Nicaragua**	3.00	**Tunisia**	14.10
Cambodia	17.07	**Iran**	16.43	**Niger**	8.40	**Turkey**	14.66
Cameroon	9.05	**Iraq**	12.35	**Nigeria**	9.12	**Turkmenistan**	12.62
Canada	7.25	**Ireland**	20.00	**North Korea**	--	**Uganda**	5.62
Central Af. R.	5.74	**Israel**	12.07	**Norway**	18.52	**Ukraine**	15.74
Chad	12.69	**Italy**	15.56	**Oman**	16.07	**United Ar. Em.**	12.00
Chile	23.08	**Ivory Coast**	7.39	**Pakistan**	11.92	**United King.**	24.00
China	19.00	**Jamaica**	20.83	**Panama**	9.17	**United States**	8.56
Colombia	10.03	**Japan**	19.68	**Papua N.G.**	26.13	**Uruguay**	7.41
Congo	6.00	**Jordan**	11.27	**Paraguay**	2.95	**Uzbekistan**	9.28
Costa Rica	6.83	**Kazakhstan**	10.11	**Peru**	10.22	**Venezuela**	6.70
Croatia	11.84	**Kenya**	14.21	**Philippines**	31.65	**Vietnam**	17.37
Cuba	35.48	**Kuwait**	4.76	**Poland**	17.86	**Zaire**	8.89
Czech Rep.	9.88	**Kyrgyzstan**	8.43	**Portugal**	26.98	**Zambia**	5.15
Denmark	11.63	**Laos**	15.70	**Romania**	20.24	**Zimbabwe**	4.44
Dom. Rep.	25.00	**Latvia**	6.02	**Russia**	15.61		
Ecuador	10.26	**Lebanon**	10.53	**Rwanda**	5.30		

Variable: RENPC

Name: Renewable resources production as a percentage of total energy consumption

Units: Renewable Energy Production as a Percent of Total Energy **Reference Year:** 1999

Source US Energy Information Agency, http://www.eia.doe.gov/emeu/international/contents.html, accessed 20 November 2001.

Logic: The higher the proportion of hydroelectric and renewable energy sources, the less reliance on more environmentally damaging sources such as fossil fuel and nuclear energy.

Methodology: Hydroelectric, biomass, geothermal, solar and wind electric power production as a percentage of total energy consumption. Some countries exceed 100 percent because they are net exorters of renewable energy.

Mean	21.22	**Max**	489.91	**97.5 percentile cut-off value:**	108.4
Median	8.165	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	67.28	**Egypt**	7.80	**Liberia**	0.00	**Saudi Arabia**	0.00
Algeria	0.16	**El Salvador**	24.41	**Libya**	0.00	**Senegal**	0.00
Angola	10.31	**Estonia**	0.22	**Lithuania**	1.50	**Sierra Leone**	0.00
Argentina	9.14	**Ethiopia**	30.36	**Macedonia**	9.12	**Slovakia**	6.12
Armenia	16.92	**Finland**	17.61	**Madagascar**	21.69	**Slovenia**	13.97
Australia	4.24	**France**	7.50	**Malawi**	46.02	**Somalia**	0.00
Austria	31.26	**Gabon**	14.06	**Malaysia**	3.03	**South Africa**	0.17
Azerbaijan	4.19	**Gambia**	0.00	**Mali**	23.75	**South Korea**	0.59
Bangladesh	1.77	**Germany**	2.53	**Mauritania**	0.56	**Spain**	5.51
Belgium	0.53	**Ghana**	38.69	**Mexico**	7.31	**Sri Lanka**	25.03
Benin	11.75	**Greece**	3.91	**Moldova**	1.90	**Sudan**	14.39
Bhutan	367.59	**Guatemala**	16.71	**Mongolia**	0.00	**Sweden**	33.95
Bolivia	13.34	**Guinea**	19.59	**Morocco**	3.71	**Switzerland**	34.62
Bosnia and H.	18.61	**Guinea-Bissau**	0.00	**Mozambique**	92.00	**Syria**	9.71
Botswana	0.00	**Haiti**	15.06	**Myanmar**	11.29	**Tajikistan**	60.72
Brazil	38.59	**Honduras**	22.57	**Namibia**	0.00	**Tanzania**	35.96
Bulgaria	3.75	**Hungary**	0.17	**Nepal**	22.66	**Thailand**	3.33
Burkina Faso	7.40	**Iceland**	66.77	**Netherlands**	1.26	**Togo**	0.11
Burundi	20.92	**India**	7.01	**New Zealand**	36.82	**Trin. and Tob.**	0.05
Byelarus	0.02	**Indonesia**	5.63	**Nicaragua**	14.44	**Tunisia**	0.26
Cambodia	7.99	**Iran**	1.57	**Niger**	0.00	**Turkey**	12.20
Cameroon	39.86	**Iraq**	0.54	**Nigeria**	10.12	**Turkmenistan**	0.02
Canada	28.89	**Ireland**	2.01	**North Korea**	13.37	**Uganda**	52.03
Central Af. R.	16.97	**Israel**	0.05	**Norway**	66.18	**Ukraine**	2.46
Chad	0.00	**Italy**	7.26	**Oman**	0.00	**United Ar. Em.**	0.00
Chile	15.85	**Ivory Coast**	5.98	**Pakistan**	13.01	**United King.**	1.42
China	7.27	**Jamaica**	3.36	**Panama**	21.00	**United States**	4.30
Colombia	28.97	**Japan**	5.42	**Papua N.G.**	18.17	**Uruguay**	37.39
Congo	16.38	**Jordan**	0.07	**Paraguay**	489.91	**Uzbekistan**	3.22
Costa Rica	49.72	**Kazakhstan**	4.01	**Peru**	28.27	**Venezuela**	20.44
Croatia	16.45	**Kenya**	25.17	**Philippines**	22.76	**Vietnam**	21.60
Cuba	2.25	**Kuwait**	0.00	**Poland**	1.30	**Zaire**	50.76
Czech Rep.	1.81	**Kyrgyzstan**	56.12	**Portugal**	8.64	**Zambia**	82.36
Denmark	5.13	**Laos**	130.59	**Romania**	11.24	**Zimbabwe**	8.34
Dom. Rep.	4.98	**Latvia**	18.30	**Russia**	6.32		
Ecuador	20.31	**Lebanon**	3.10	**Rwanda**	10.65		

Variable: SCHOOL

Name: Mean years of schooling (age 15 and above)

Units: Years **Reference Year:** 2000

Source United Nations Development Program. Human Development Report 2001, New York: Oxford University Press, 2001, Table A2.1.

Logic: The more educated a population is, the more likely it is to have the ingenuity to develop sustainable solutions to environment and development challenges.

Methodology:

Mean	5.93	**Max**	12	**97.5 percentile cut-off value:**	11.64
Median	5.86	**Min**	0.8	**2.5 percentile cut-off value:**	1.06

Albania	[5.1]	**Egypt**	5.50	**Liberia**	[2.05]	**Saudi Arabia**	[6.17]
Algeria	5.40	**El Salvador**	5.20	**Libya**	[7.02]	**Senegal**	2.60
Angola	[2.85]	**Estonia**	[8.01]	**Lithuania**	[7.71]	**Sierra Leone**	2.40
Argentina	8.80	**Ethiopia**	[2.22]	**Macedonia**	[6.38]	**Slovakia**	9.30
Armenia	[6.16]	**Finland**	10.00	**Madagascar**	[3.89]	**Slovenia**	7.10
Australia	10.90	**France**	7.90	**Malawi**	3.20	**Somalia**	[3.03]
Austria	8.40	**Gabon**	[3.38]	**Malaysia**	6.80	**South Africa**	6.10
Azerbaijan	[6.25]	**Gambia**	2.30	**Mali**	0.90	**South Korea**	10.80
Bangladesh	2.60	**Germany**	10.20	**Mauritania**	[1.96]	**Spain**	7.30
Belgium	9.30	**Ghana**	3.90	**Mexico**	7.20	**Sri Lanka**	6.90
Benin	2.30	**Greece**	8.70	**Moldova**	[5.43]	**Sudan**	2.10
Bhutan	[4.23]	**Guatemala**	3.50	**Mongolia**	[6.26]	**Sweden**	11.40
Bolivia	5.60	**Guinea**	[3.54]	**Morocco**	[6.6]	**Switzerland**	10.50
Bosnia and H.	[6.72]	**Guinea-Bissau**	0.80	**Mozambique**	1.10	**Syria**	5.80
Botswana	6.30	**Haiti**	2.80	**Myanmar**	2.80	**Tajikistan**	[5.7]
Brazil	4.90	**Honduras**	4.80	**Namibia**	[4.12]	**Tanzania**	2.70
Bulgaria	9.50	**Hungary**	9.10	**Nepal**	2.40	**Thailand**	6.50
Burkina Faso	[2.51]	**Iceland**	8.80	**Netherlands**	9.40	**Togo**	3.30
Burundi	[2.74]	**India**	5.10	**New Zealand**	11.70	**Trin. and Tob.**	7.80
Byelarus	[6.17]	**Indonesia**	5.00	**Nicaragua**	4.60	**Tunisia**	5.00
Cambodia	[3.25]	**Iran**	5.30	**Niger**	1.00	**Turkey**	5.30
Cameroon	3.50	**Iraq**	[5.08]	**Nigeria**	[2.31]	**Turkmenistan**	[6.83]
Canada	11.60	**Ireland**	9.40	**North Korea**	[4.59]	**Uganda**	3.50
Central Af. R.	2.50	**Israel**	9.60	**Norway**	11.90	**Ukraine**	[6.22]
Chad	[4.4]	**Italy**	7.20	**Oman**	[7.1]	**United Ar. Em.**	[7.44]
Chile	7.60	**Ivory Coast**	[3.38]	**Pakistan**	3.90	**United King.**	9.40
China	6.40	**Jamaica**	5.30	**Panama**	8.60	**United States**	12.00
Colombia	5.30	**Japan**	9.50	**Papua N.G.**	2.90	**Uruguay**	7.60
Congo	5.10	**Jordan**	6.90	**Paraguay**	6.20	**Uzbekistan**	[5.82]
Costa Rica	6.10	**Kazakhstan**	[5.36]	**Peru**	7.60	**Venezuela**	6.60
Croatia	6.30	**Kenya**	4.20	**Philippines**	8.20	**Vietnam**	[4.75]
Cuba	[7.8]	**Kuwait**	6.20	**Poland**	9.80	**Zaire**	3.00
Czech Rep.	9.50	**Kyrgyzstan**	[6.45]	**Portugal**	5.90	**Zambia**	5.50
Denmark	9.70	**Laos**	[5.01]	**Romania**	9.50	**Zimbabwe**	5.40
Dom. Rep.	4.90	**Latvia**	[7.96]	**Russia**	[4.65]		
Ecuador	6.40	**Lebanon**	[7.03]	**Rwanda**	2.60		

Variable: SO2

Name: Urban SO_2 concentration

Units: Micrograms/m3 **Reference Year:** MRYA 1990-1996

Source: World Resources Institute, World Resources 1998-99; World Bank, World Development Indicators 2000; WHO, Air Management Information System-AMIS 2.0, 1998; and Global Urban Observatory, Citibase, 1999.

Logic: Indicator of Urban Air Quality.

Methodology: The values were originally collected at the city level. The number of cities with data provided by each country varied. Within each country the values have been normalized by city population for the year 1995, then summed to give the total concentration for the given country.

Mean	50.57	**Max**	130	**97.5 percentile cut-off value:**	101.12
Median	49.785	**Min**	0	**2.5 percentile cut-off value:**	7.56

Albania	[28.69]	**Egypt**	69.00	**Liberia**	[152.18]	**Saudi Arabia**	[43.64]
Algeria	[80.17]	**El Salvador**	[44.13]	**Libya**	[63.66]	**Senegal**	[47.25]
Angola	[108.55]	**Estonia**	[37.09]	**Lithuania**	2.10	**Sierra Leone**	[155.89]
Argentina	1.02	**Ethiopia**	[97.46]	**Macedonia**	[14.06]	**Slovakia**	22.66
Armenia	[19.33]	**Finland**	4.38	**Madagascar**	[89.7]	**Slovenia**	[51.21]
Australia	13.17	**France**	13.89	**Malawi**	[106.66]	**Somalia**	[137.61]
Austria	13.21	**Gabon**	[109.48]	**Malaysia**	20.49	**South Africa**	22.37
Azerbaijan	[11.56]	**Gambia**	[69.33]	**Mali**	[134.39]	**South Korea**	52.41
Bangladesh	[48.3]	**Germany**	12.80	**Mauritania**	[135.89]	**Spain**	11.00
Belgium	21.02	**Ghana**	[64.07]	**Mexico**	74.00	**Sri Lanka**	[24.57]
Benin	[116.45]	**Greece**	34.00	**Moldova**	[58.34]	**Sudan**	[116.64]
Bhutan	[81.22]	**Guatemala**	[13.51]	**Mongolia**	[41.16]	**Sweden**	5.23
Bolivia	[50.41]	**Guinea**	[93.84]	**Morocco**	[78.15]	**Switzerland**	11.34
Bosnia and H.	[37.68]	**Guinea-Bissau**	[119.06]	**Mozambique**	[90.47]	**Syria**	[63.5]
Botswana	[14.47]	**Haiti**	[43.7]	**Myanmar**	[135.07]	**Tajikistan**	[48.85]
Brazil	75.78	**Honduras**	[41.17]	**Namibia**	[10.24]	**Tanzania**	[48.97]
Bulgaria	52.45	**Hungary**	37.33	**Nepal**	[71.84]	**Thailand**	11.00
Burkina Faso	[145.42]	**Iceland**	5.00	**Netherlands**	10.00	**Togo**	[112.4]
Burundi	[104.1]	**India**	27.55	**New Zealand**	3.49	**Trin. and Tob.**	[19.82]
Byelarus	[45.15]	**Indonesia**	[51.05]	**Nicaragua**	[33.45]	**Tunisia**	[58.16]
Cambodia	[57.52]	**Iran**	209.00	**Niger**	[146.57]	**Turkey**	87.02
Cameroon	[114.97]	**Iraq**	[121.24]	**Nigeria**	[149.5]	**Turkmenistan**	[92.24]
Canada	12.87	**Ireland**	18.89	**North Korea**	[27.19]	**Uganda**	[79.53]
Central Af. R.	[71.5]	**Israel**	16.82	**Norway**	5.47	**Ukraine**	[37.08]
Chad	[126.77]	**Italy**	15.55	**Oman**	[24.03]	**United Ar. Em.**	[61.54]
Chile	29.00	**Ivory Coast**	[137.72]	**Pakistan**	[91.95]	**United King.**	21.96
China	97.07	**Jamaica**	[22.12]	**Panama**	[10.33]	**United States**	15.43
Colombia	[20.75]	**Japan**	24.33	**Papua N.G.**	[66.38]	**Uruguay**	[40.04]
Congo	[65.76]	**Jordan**	[54.64]	**Paraguay**	[37.51]	**Uzbekistan**	[69.18]
Costa Rica	38.84	**Kazakhstan**	[103.96]	**Peru**	[52.62]	**Venezuela**	33.00
Croatia	31.00	**Kenya**	[47.81]	**Philippines**	33.00	**Vietnam**	[64.07]
Cuba	1.00	**Kuwait**	[17.53]	**Poland**	54.72	**Zaire**	[123.84]
Czech Rep.	27.34	**Kyrgyzstan**	[82.8]	**Portugal**	9.22	**Zambia**	[96.68]
Denmark	7.00	**Laos**	[103.19]	**Romania**	10.00	**Zimbabwe**	[38.44]
Dom. Rep.	[16.96]	**Latvia**	5.36	**Russia**	97.55		
Ecuador	21.52	**Lebanon**	[62.71]	**Rwanda**	[102.81]		

Variable: SO2EXP

Name: $S0_2$ exports

Units: 100 Metric Tons **Reference Year:** 1997 (Asia) and 1998

Source International Institute for Applied Systems Analysis, RAINS-ASIA and Co-operative Programme for monitoring and evaluation of the long range transmission of air pollutants in Europe (EMEP)

Logic: The transport of sulphur emissions across national boundaries contributes to poor air quality and acid rain in receiving countries.

Methodology:

Mean	1542.9	**Max**	12300	**97.5 percentile cut-off value:**	5366.75
Median	1283.345	**Min**	4.12	**2.5 percentile cut-off value:**	18.67

Albania	307.00	**Egypt**	[816.09]	**Liberia**	[1343.31]	**Saudi Arabia**	[2085.36]
Algeria	[1620.92]	**El Salvador**	[1108.28]	**Libya**	[3087.65]	**Senegal**	[2635.64]
Angola	[1032.47]	**Estonia**	496.00	**Lithuania**	363.00	**Sierra Leone**	[246.76]
Argentina	[2893.04]	**Ethiopia**	[1360.06]	**Macedonia**	71.00	**Slovakia**	746.00
Armenia	12.00	**Finland**	245.00	**Madagascar**	[673.96]	**Slovenia**	538.00
Australia	[3503.31]	**France**	2537.00	**Malawi**	[2379.44]	**Somalia**	[1243.2]
Austria	175.00	**Gabon**	[911.48]	**Malaysia**	401.00	**South Africa**	[2753.94]
Azerbaijan	[1382.22]	**Gambia**	[1282.13]	**Mali**	[793.00]	**South Korea**	438.00
Bangladesh	238.00	**Germany**	4448.00	**Mauritania**	[966.81]	**Spain**	5201.00
Belgium	832.00	**Ghana**	[2454.67]	**Mexico**	[1495.17]	**Sri Lanka**	81.50
Benin	[1176.44]	**Greece**	2029.00	**Moldova**	143.00	**Sudan**	[618.46]
Bhutan	4.12	**Guatemala**	[915.87]	**Mongolia**	69.00	**Sweden**	144.00
Bolivia	[955.75]	**Guinea**	[364.11]	**Morocco**	[1617.14]	**Switzerland**	94.00
Bosnia and H.	1897.00	**Guinea-Bissau**	[1765.55]	**Mozambique**	[1364.33]	**Syria**	[1271.38]
Botswana	[2400.93]	**Haiti**	[1962.04]	**Myanmar**	23.60	**Tajikistan**	1340.00
Brazil	[2665.88]	**Honduras**	[586.61]	**Namibia**	[1795.06]	**Tanzania**	[432.75]
Bulgaria	4974.00	**Hungary**	2348.00	**Nepal**	188.00	**Thailand**	[1043.92]
Burkina Faso	[1653.6]	**Iceland**	110.00	**Netherlands**	425.00	**Togo**	[846.8]
Burundi	[1142.39]	**India**	3400.00	**New Zealand**	[2051.79]	**Trin. and Tob.**	[1636.88]
Byelarus	628.00	**Indonesia**	1320.00	**Nicaragua**	[2897.05]	**Tunisia**	[1763.12]
Cambodia	39.80	**Iran**	[2180.87]	**Niger**	[1649.03]	**Turkey**	3465.00
Cameroon	[2166.13]	**Iraq**	[1991.21]	**Nigeria**	[956.91]	**Turkmenistan**	[964.44]
Canada	[3234.25]	**Ireland**	565.00	**North Korea**	617.00	**Uganda**	[382.62]
Central Af. R.	[1902.93]	**Israel**	[632.58]	**Norway**	98.00	**Ukraine**	3560.00
Chad	[841.98]	**Italy**	3876.00	**Oman**	[1870.89]	**United Ar. Em.**	[1292.63]
Chile	[1814.13]	**Ivory Coast**	[1284.56]	**Pakistan**	420.00	**United King.**	5591.00
China	12300.00	**Jamaica**	[1369.33]	**Panama**	[2111.66]	**United States**	[2687.09]
Colombia	[703.08]	**Japan**	1420.00	**Papua N.G.**	[889.47]	**Uruguay**	[1659.94]
Congo	[1174.57]	**Jordan**	[1926.42]	**Paraguay**	[442.96]	**Uzbekistan**	[1818.24]
Costa Rica	[1086.85]	**Kazakhstan**	[1445.52]	**Peru**	[289.61]	**Venezuela**	[1434.99]
Croatia	367.00	**Kenya**	[2778.82]	**Philippines**	723.00	**Vietnam**	201.00
Cuba	[1834.57]	**Kuwait**	[2958.57]	**Poland**	5849.00	**Zaire**	[1068.53]
Czech Rep.	1762.00	**Kyrgyzstan**	[1066.46]	**Portugal**	1349.00	**Zambia**	[2561.36]
Denmark	326.00	**Laos**	8.18	**Romania**	2768.00	**Zimbabwe**	[2129.68]
Dom. Rep.	[977.94]	**Latvia**	155.00	**Russia**	4148.00		
Ecuador	[732.94]	**Lebanon**	[2067.78]	**Rwanda**	[1838.69]		

Variable: SO2KM

Name: SO_2 emissions per populated land area

Units: 1000 Metric Tons/Sq. Km. of Populated Land Area **Reference Year:** 2000

Source Intergovernmental Panel on Climate Change: Special Report on Emissions Scenarios, Data Version 1.1, B1 Illustrative Marker Scenario with model IMAGE. Available at http://sres.ciesin.columbia.edu/final_data.html

Logic: Indicator of air pollution: emissions contibute to declines in air quality.The use of a Gridded dataset gives more detailed information about the distribution of pollution sources and permits a better estimate of total emissions within each country.

Methodology: The gridded emissions data, originally available as 1x1 degree cells, were summarized at the country level to give the total emissions for each country. Air pollution is generally greatest in densely populated areas. To take this into account, we used the Gridded Population of the World dataset available from CIESIN and calculated the total land area in each country inhabited with a population density of greater than 5 persons per sq. km. We then utilized this land area as the denominator for the emissions data.

Mean	1.55	**Max**	21.39	**97.5 percentile cut-off value:**	11.84
Median	0.58	**Min**	0.03	**2.5 percentile cut-off value:**	0.05

Albania	0.60	**Egypt**	4.09	**Liberia**	0.11	**Saudi Arabia**	0.56
Algeria	0.54	**El Salvador**	0.70	**Libya**	3.22	**Senegal**	0.15
Angola	0.20	**Estonia**	0.58	**Lithuania**	1.69	**Sierra Leone**	[2.08]
Argentina	0.15	**Ethiopia**	0.07	**Macedonia**	0.90	**Slovakia**	4.85
Armenia	2.29	**Finland**	1.48	**Madagascar**	0.04	**Slovenia**	2.34
Australia	2.84	**France**	1.09	**Malawi**	0.05	**Somalia**	0.06
Austria	0.85	**Gabon**	0.11	**Malaysia**	1.60	**South Africa**	2.35
Azerbaijan	1.68	**Gambia**	0.11	**Mali**	0.07	**South Korea**	19.43
Bangladesh	0.69	**Germany**	5.10	**Mauritania**	0.18	**Spain**	1.31
Belgium	21.39	**Ghana**	0.17	**Mexico**	0.97	**Sri Lanka**	0.21
Benin	0.14	**Greece**	1.83	**Moldova**	1.65	**Sudan**	0.11
Bhutan	0.03	**Guatemala**	0.16	**Mongolia**	0.43	**Sweden**	0.77
Bolivia	0.07	**Guinea**	0.07	**Morocco**	0.53	**Switzerland**	0.51
Bosnia and H.	1.78	**Guinea-Bissau**	0.19	**Mozambique**	0.13	**Syria**	0.71
Botswana	1.32	**Haiti**	0.14	**Myanmar**	0.09	**Tajikistan**	2.61
Brazil	0.36	**Honduras**	0.15	**Namibia**	0.87	**Tanzania**	0.10
Bulgaria	4.61	**Hungary**	2.65	**Nepal**	0.05	**Thailand**	1.07
Burkina Faso	0.08	**Iceland**	0.96	**Netherlands**	4.19	**Togo**	0.07
Burundi	0.13	**India**	1.15	**New Zealand**	0.44	**Trin. and Tob.**	0.52
Byelarus	0.95	**Indonesia**	0.36	**Nicaragua**	0.12	**Tunisia**	1.61
Cambodia	0.18	**Iran**	0.49	**Niger**	0.09	**Turkey**	0.65
Cameroon	0.08	**Iraq**	0.58	**Nigeria**	0.19	**Turkmenistan**	0.18
Canada	2.79	**Ireland**	0.97	**North Korea**	7.64	**Uganda**	0.16
Central Af. R.	0.29	**Israel**	3.31	**Norway**	0.35	**Ukraine**	2.06
Chad	0.10	**Italy**	2.79	**Oman**	0.11	**United Ar. Em.**	1.52
Chile	4.38	**Ivory Coast**	0.20	**Pakistan**	0.30	**United King.**	5.37
China	2.68	**Jamaica**	17.05	**Panama**	0.23	**United States**	1.68
Colombia	0.24	**Japan**	0.97	**Papua N.G.**	0.04	**Uruguay**	0.17
Congo	0.14	**Jordan**	2.71	**Paraguay**	0.08	**Uzbekistan**	0.77
Costa Rica	0.38	**Kazakhstan**	0.58	**Peru**	0.45	**Venezuela**	0.59
Croatia	1.87	**Kenya**	0.16	**Philippines**	0.88	**Vietnam**	0.26
Cuba	1.73	**Kuwait**	7.12	**Poland**	3.90	**Zaire**	0.17
Czech Rep.	7.98	**Kyrgyzstan**	0.27	**Portugal**	1.17	**Zambia**	2.10
Denmark	2.86	**Laos**	0.11	**Romania**	2.04	**Zimbabwe**	0.33
Dom. Rep.	0.64	**Latvia**	0.18	**Russia**	0.93		
Ecuador	0.35	**Lebanon**	0.60	**Rwanda**	0.49		

Variable: SUBFSH

Name: Subsidies to the commecial fishing sector

Units: US Dollars (Millions) **Reference Year:** 1997

Source World Wildlife Fund (WWF-US). Hard Facts, Hidden Problems: A Review of Current Data on Fishing Subsidies, A WWF Technical Paper, October 2001, Annex 1.

Logic: Subsidies to the fishing industry encourage over-capacity, and therefore over-fishing.

Methodology: Data on itemized fishing subsidies were combined from Annex 1 of the WWF report. Where estimated ranges were given, the mid-point of the range was used. In calculating the ESI, the base-10 logarithm of this variable was used.

Mean	220.58	**Max**	2935.3	**97.5 percentile cut-off value:**	2935.3
Median	41.75	**Min**	0.9	**2.5 percentile cut-off value:**	0.9

Albania	--	**Egypt**	--	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	--	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	--	**Lithuania**	--	**Sierra Leone**	--
Argentina	--	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	--
Armenia	--	**Finland**	24.50	**Madagascar**	--	**Slovenia**	--
Australia	33.90	**France**	108.00	**Malawi**	--	**Somalia**	--
Austria	--	**Gabon**	--	**Malaysia**	1.70	**South Africa**	--
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	346.70
Bangladesh	--	**Germany**	50.60	**Mauritania**	--	**Spain**	170.45
Belgium	3.48	**Ghana**	--	**Mexico**	23.7	**Sri Lanka**	--
Benin	--	**Greece**	38.60	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	--	**Mongolia**	--	**Sweden**	43.20
Bolivia	--	**Guinea**	--	**Morocco**	--	**Switzerland**	--
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	--	**Honduras**	--	**Namibia**	--	**Tanzania**	--
Bulgaria	--	**Hungary**	--	**Nepal**	--	**Thailand**	3.10
Burkina Faso	--	**Iceland**	36.20	**Netherlands**	29.00	**Togo**	--
Burundi	--	**India**	--	**New Zealand**	40.30	**Trin. and Tob.**	--
Byelarus	--	**Indonesia**	254.40	**Nicaragua**	--	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	28.60
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	768.55	**Ireland**	92.88	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	--	**Norway**	160.40	**Ukraine**	--
Chad	--	**Italy**	65.20	**Oman**	--	**United Ar. Em.**	--
Chile	--	**Ivory Coast**	--	**Pakistan**	--	**United King.**	99.03
China	54.70	**Jamaica**	--	**Panama**	--	**United States**	867.90
Colombia	--	**Japan**	2935.30	**Papua N.G.**	--	**Uruguay**	--
Congo	--	**Jordan**	--	**Paraguay**	--	**Uzbekistan**	--
Costa Rica	--	**Kazakhstan**	--	**Peru**	0.90	**Venezuela**	--
Croatia	--	**Kenya**	--	**Philippines**	2.20	**Vietnam**	35.30
Cuba	--	**Kuwait**	--	**Poland**	7.90	**Zaire**	--
Czech Rep.	--	**Kyrgyzstan**	--	**Portugal**	38.24	**Zambia**	--
Denmark	60.65	**Laos**	--	**Romania**	--	**Zimbabwe**	--
Dom. Rep.	--	**Latvia**	--	**Russia**	633.00		
Ecuador	--	**Lebanon**	--	**Rwanda**	--		

Variable: TAI

Name: Technology Achievement Index

Units: Score **Reference Year:** circa 2000

Source United Nations Development Program. Human Development Report 2001. New York: Oxford University Press, 2001, Table A2.1.

Logic: The higher a country's technology achievement index, the greater its ability to create technological solutions to environmental problems.

Methodology:

Mean	0.37	**Max**	0.74	**97.5 percentile cut-off value:**	0.74
Median	0.34	**Min**	0.07	**2.5 percentile cut-off value:**	0.07

Albania	--	**Egypt**	0.24	**Liberia**	--	**Saudi Arabia**	--
Algeria	0.22	**El Salvador**	0.25	**Libya**	--	**Senegal**	0.16
Angola	--	**Estonia**	--	**Lithuania**	--	**Sierra Leone**	--
Argentina	--	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	0.45
Armenia	--	**Finland**	0.74	**Madagascar**	--	**Slovenia**	0.46
Australia	0.59	**France**	0.54	**Malawi**	--	**Somalia**	--
Austria	0.54	**Gabon**	--	**Malaysia**	0.40	**South Africa**	0.34
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	0.67
Bangladesh	--	**Germany**	0.58	**Mauritania**	--	**Spain**	0.48
Belgium	0.55	**Ghana**	0.14	**Mexico**	0.39	**Sri Lanka**	0.20
Benin	--	**Greece**	0.44	**Moldova**	--	**Sudan**	0.07
Bhutan	--	**Guatemala**	--	**Mongolia**	--	**Sweden**	0.70
Bolivia	0.28	**Guinea**	--	**Morocco**	--	**Switzerland**	--
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	0.07	**Syria**	0.24
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	0.31	**Honduras**	0.21	**Namibia**	--	**Tanzania**	0.08
Bulgaria	0.41	**Hungary**	0.46	**Nepal**	0.08	**Thailand**	0.34
Burkina Faso	--	**Iceland**	--	**Netherlands**	0.63	**Togo**	--
Burundi	--	**India**	0.20	**New Zealand**	0.55	**Trin. and Tob.**	0.33
Byelarus	--	**Indonesia**	0.21	**Nicaragua**	0.19	**Tunisia**	0.26
Cambodia	--	**Iran**	0.26	**Niger**	--	**Turkey**	--
Cameroon	--	**Iraq**	--	**Nigeria**	--	**Turkmenistan**	--
Canada	0.59	**Ireland**	0.57	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	0.51	**Norway**	0.58	**Ukraine**	--
Chad	--	**Italy**	0.47	**Oman**	--	**United Ar. Em.**	--
Chile	0.36	**Ivory Coast**	--	**Pakistan**	0.17	**United King.**	0.61
China	0.30	**Jamaica**	0.26	**Panama**	0.32	**United States**	0.73
Colombia	0.27	**Japan**	0.70	**Papua N.G.**	--	**Uruguay**	0.34
Congo	--	**Jordan**	--	**Paraguay**	0.25	**Uzbekistan**	--
Costa Rica	0.36	**Kazakhstan**	--	**Peru**	0.27	**Venezuela**	--
Croatia	0.39	**Kenya**	0.13	**Philippines**	0.30	**Vietnam**	--
Cuba	--	**Kuwait**	--	**Poland**	0.41	**Zaire**	--
Czech Rep.	0.47	**Kyrgyzstan**	--	**Portugal**	0.42	**Zambia**	--
Denmark	--	**Laos**	--	**Romania**	0.37	**Zimbabwe**	0.22
Dom. Rep.	0.24	**Latvia**	--	**Russia**	--		
Ecuador	0.25	**Lebanon**	--	**Rwanda**	--		

Variable: TFR
Name: Total fertility rate
Units: Average Number of Births Per Woman **Reference Year:** 2001
Source Population Reference Bureau, 2001 World Population Data Sheet, Washington, DC: PRB, 2001.
Logic: Fertility contributes significantly to population growth, and thus to pressure on natural resources. If fertility remains at high levels indefinitely, it is environmentally unsustainable.

Methodology:

Mean	3.42	**Max**	7.5	**97.5 percentile cut-off value:**	7.03
Median	2.9	**Min**	1.11	**2.5 percentile cut-off value:**	1.15

Albania	2.77	**Egypt**	3.52	**Liberia**	6.55	**Saudi Arabia**	5.74
Algeria	3.08	**El Salvador**	3.48	**Libya**	3.87	**Senegal**	5.70
Angola	6.90	**Estonia**	1.28	**Lithuania**	1.32	**Sierra Leone**	6.29
Argentina	2.62	**Ethiopia**	5.90	**Macedonia**	1.90	**Slovakia**	1.29
Armenia	1.13	**Finland**	1.72	**Madagascar**	5.84	**Slovenia**	1.21
Australia	1.74	**France**	1.89	**Malawi**	6.35	**Somalia**	7.25
Austria	1.30	**Gabon**	4.30	**Malaysia**	3.20	**South Africa**	2.90
Azerbaijan	2.00	**Gambia**	5.90	**Mali**	7.02	**South Korea**	1.48
Bangladesh	3.31	**Germany**	1.33	**Mauritania**	6.00	**Spain**	1.20
Belgium	1.61	**Ghana**	4.27	**Mexico**	2.80	**Sri Lanka**	2.10
Benin	6.32	**Greece**	1.30	**Moldova**	1.37	**Sudan**	4.90
Bhutan	5.60	**Guatemala**	4.81	**Mongolia**	2.20	**Sweden**	1.53
Bolivia	4.23	**Guinea**	5.53	**Morocco**	3.35	**Switzerland**	1.48
Bosnia and H.	1.56	**Guinea-Bissau**	5.75	**Mozambique**	5.62	**Syria**	4.06
Botswana	3.91	**Haiti**	4.70	**Myanmar**	3.30	**Tajikistan**	2.41
Brazil	2.40	**Honduras**	4.41	**Namibia**	5.00	**Tanzania**	5.55
Bulgaria	1.23	**Hungary**	1.33	**Nepal**	4.80	**Thailand**	1.80
Burkina Faso	6.80	**Iceland**	1.99	**Netherlands**	1.68	**Togo**	5.80
Burundi	6.48	**India**	3.20	**New Zealand**	2.01	**Trin. and Tob.**	1.70
Byelarus	1.31	**Indonesia**	2.70	**Nicaragua**	4.32	**Tunisia**	2.30
Cambodia	4.00	**Iran**	2.60	**Niger**	7.50	**Turkey**	2.50
Cameroon	5.20	**Iraq**	5.30	**Nigeria**	5.75	**Turkmenistan**	2.20
Canada	1.44	**Ireland**	1.89	**North Korea**	2.30	**Uganda**	6.86
Central Af. R.	5.07	**Israel**	3.01	**Norway**	1.84	**Ukraine**	1.11
Chad	6.60	**Italy**	1.25	**Oman**	6.14	**United Ar. Em.**	3.48
Chile	2.30	**Ivory Coast**	5.20	**Pakistan**	5.60	**United King.**	1.66
China	1.80	**Jamaica**	2.40	**Panama**	2.60	**United States**	2.08
Colombia	2.60	**Japan**	1.34	**Papua N.G.**	4.84	**Uruguay**	2.26
Congo	6.30	**Jordan**	3.60	**Paraguay**	4.30	**Uzbekistan**	2.70
Costa Rica	2.60	**Kazakhstan**	1.84	**Peru**	2.90	**Venezuela**	2.90
Croatia	1.38	**Kenya**	4.36	**Philippines**	3.54	**Vietnam**	2.33
Cuba	1.59	**Kuwait**	4.16	**Poland**	1.37	**Zaire**	7.04
Czech Rep.	1.14	**Kyrgyzstan**	2.40	**Portugal**	1.49	**Zambia**	6.08
Denmark	1.75	**Laos**	5.39	**Romania**	1.30	**Zimbabwe**	3.96
Dom. Rep.	3.06	**Latvia**	1.15	**Russia**	1.23		
Ecuador	3.30	**Lebanon**	2.50	**Rwanda**	5.80		

Variable: TSP

Name: Urban TSP concentration

Units: Micrograms per Cubic Meter **Reference Year:** MRYA 1990-1996

Source: World Resources Institute, World Resources 1998-99; World Bank, World Development Indicators 2000; WHO, Air Management Information System-AMIS 2.0, 1998; and Global Urban Observatory, Citibase, 1999.

Logic: Indicator of Urban Air Quality.

Methodology: The values were originally collected at the city level. The number of cities with data provided by each country varied. Within each country the values have been normalized by city population for the year 1995, then summed to give the total concentration for the given country.

Mean	156.77	**Max**	320	**97.5 percentile cut-off value:**	292.53
Median	162.27	**Min**	9	**2.5 percentile cut-off value:**	12.97

Albania	[80.32]	**Egypt**	[164]	**Liberia**	[239.79]	**Saudi Arabia**	[264.53]
Algeria	[196.39]	**El Salvador**	[148.34]	**Libya**	[195.6]	**Senegal**	[172.77]
Angola	[258.11]	**Estonia**	[102.12]	**Lithuania**	114.27	**Sierra Leone**	[313.84]
Argentina	50.01	**Ethiopia**	[203.49]	**Macedonia**	[85.72]	**Slovakia**	64.49
Armenia	[122.03]	**Finland**	49.90	**Madagascar**	[265.53]	**Slovenia**	[88.7]
Australia	43.22	**France**	14.16	**Malawi**	[209.72]	**Somalia**	[223.6]
Austria	45.70	**Gabon**	[156.86]	**Malaysia**	91.58	**South Africa**	[131.9]
Azerbaijan	[127.83]	**Gambia**	[257.87]	**Mali**	[237.59]	**South Korea**	83.79
Bangladesh	[180.37]	**Germany**	43.27	**Mauritania**	[213.77]	**Spain**	72.68
Belgium	77.91	**Ghana**	137.00	**Mexico**	279.00	**Sri Lanka**	[119.53]
Benin	[172.04]	**Greece**	178.00	**Moldova**	[156.68]	**Sudan**	[123.28]
Bhutan	[256.67]	**Guatemala**	272.33	**Mongolia**	[103.09]	**Sweden**	9.00
Bolivia	[221.69]	**Guinea**	[217.33]	**Morocco**	[210.42]	**Switzerland**	30.66
Bosnia and H.	[81.05]	**Guinea-Bissau**	[235.06]	**Mozambique**	[232.11]	**Syria**	[169.52]
Botswana	[174.19]	**Haiti**	[160.54]	**Myanmar**	[135.04]	**Tajikistan**	[126.5]
Brazil	106.20	**Honduras**	320.00	**Namibia**	[74.3]	**Tanzania**	[196.92]
Bulgaria	199.25	**Hungary**	63.74	**Nepal**	[181.89]	**Thailand**	223.00
Burkina Faso	[234.97]	**Iceland**	24.00	**Netherlands**	40.00	**Togo**	[216.25]
Burundi	[278.81]	**India**	277.45	**New Zealand**	27.32	**Trin. and Tob.**	[81.77]
Byelarus	18.40	**Indonesia**	271.00	**Nicaragua**	[242.38]	**Tunisia**	[129.14]
Cambodia	[225.02]	**Iran**	248.00	**Niger**	[265.52]	**Turkey**	11.35
Cameroon	[228.69]	**Iraq**	[262.06]	**Nigeria**	[236.38]	**Turkmenistan**	[180.9]
Canada	31.26	**Ireland**	[84.93]	**North Korea**	[170.73]	**Uganda**	[242.6]
Central Af. R.	[195.47]	**Israel**	[159.04]	**Norway**	10.25	**Ukraine**	[179.92]
Chad	[196.79]	**Italy**	86.91	**Oman**	[199.92]	**United Ar. Em.**	[184.8]
Chile	[88.79]	**Ivory Coast**	[229.84]	**Pakistan**	[271.62]	**United King.**	[75.82]
China	310.82	**Jamaica**	[188.92]	**Panama**	[124.73]	**United States**	[113.5]
Colombia	120.00	**Japan**	43.63	**Papua N.G.**	[222.59]	**Uruguay**	[126.27]
Congo	[259.5]	**Jordan**	[146.33]	**Paraguay**	[253.18]	**Uzbekistan**	[174.79]
Costa Rica	244.48	**Kazakhstan**	[198.85]	**Peru**	[155.82]	**Venezuela**	53.00
Croatia	71.00	**Kenya**	69.00	**Philippines**	200.00	**Vietnam**	[125.98]
Cuba	[126.35]	**Kuwait**	[176.31]	**Poland**	[135.1]	**Zaire**	[209.76]
Czech Rep.	58.39	**Kyrgyzstan**	[223.11]	**Portugal**	50.40	**Zambia**	[263.21]
Denmark	61.00	**Laos**	[249.82]	**Romania**	82.00	**Zimbabwe**	[176.65]
Dom. Rep.	[117.69]	**Latvia**	100.00	**Russia**	100.00		
Ecuador	125.73	**Lebanon**	[104.09]	**Rwanda**	[232.8]		

Variable: U5MORT
Name: Under-5 mortality rate
Units: Deaths Per 1,000 Live Births **Reference Year:** 1999
Source United Nations Children's Fund. The State of the World's Children 2001, New York: UNICEF, 2001.
Logic: Under-5 mortality rate is a measure of the vulnerability of the most vulnerable population group.
Methodology: Deaths between birth and age five, divided by 1,000 live births

Mean	70.04	**Max**	316	**97.5 percentile cut-off value:**	252
Median	40.5	**Min**	4	**2.5 percentile cut-off value:**	4.58

Albania	35.00	**Egypt**	52.00	**Liberia**	235.00	**Saudi Arabia**	25.00
Algeria	41.00	**El Salvador**	42.00	**Libya**	22.00	**Senegal**	118.00
Angola	295.00	**Estonia**	21.00	**Lithuania**	22.00	**Sierra Leone**	316.00
Argentina	22.00	**Ethiopia**	176.00	**Macedonia**	26.00	**Slovakia**	10.00
Armenia	30.00	**Finland**	5.00	**Madagascar**	156.00	**Slovenia**	6.00
Australia	5.00	**France**	5.00	**Malawi**	211.00	**Somalia**	211.00
Austria	5.00	**Gabon**	143.00	**Malaysia**	9.00	**South Africa**	69.00
Azerbaijan	45.00	**Gambia**	75.00	**Mali**	235.00	**South Korea**	5.00
Bangladesh	89.00	**Germany**	5.00	**Mauritania**	183.00	**Spain**	6.00
Belgium	6.00	**Ghana**	101.00	**Mexico**	33.00	**Sri Lanka**	19.00
Benin	156.00	**Greece**	7.00	**Moldova**	34.00	**Sudan**	109.00
Bhutan	107.00	**Guatemala**	60.00	**Mongolia**	80.00	**Sweden**	4.00
Bolivia	83.00	**Guinea**	181.00	**Morocco**	53.00	**Switzerland**	4.00
Bosnia and H.	18.00	**Guinea-Bissau**	200.00	**Mozambique**	203.00	**Syria**	30.00
Botswana	59.00	**Haiti**	129.00	**Myanmar**	112.00	**Tajikistan**	74.00
Brazil	40.00	**Honduras**	42.00	**Namibia**	70.00	**Tanzania**	141.00
Bulgaria	17.00	**Hungary**	10.00	**Nepal**	104.00	**Thailand**	30.00
Burkina Faso	199.00	**Iceland**	5.00	**Netherlands**	5.00	**Togo**	143.00
Burundi	176.00	**India**	98.00	**New Zealand**	6.00	**Trin. and Tob.**	20.00
Byelarus	28.00	**Indonesia**	52.00	**Nicaragua**	47.00	**Tunisia**	30.00
Cambodia	122.00	**Iran**	46.00	**Niger**	275.00	**Turkey**	48.00
Cameroon	154.00	**Iraq**	128.00	**Nigeria**	187.00	**Turkmenistan**	71.00
Canada	6.00	**Ireland**	7.00	**North Korea**	30.00	**Uganda**	131.00
Central Af. R.	172.00	**Israel**	6.00	**Norway**	4.00	**Ukraine**	21.00
Chad	198.00	**Italy**	6.00	**Oman**	16.00	**United Ar. Em.**	9.00
Chile	12.00	**Ivory Coast**	171.00	**Pakistan**	112.00	**United King.**	6.00
China	41.00	**Jamaica**	11.00	**Panama**	27.00	**United States**	8.00
Colombia	31.00	**Japan**	[22.21]	**Papua N.G.**	112.00	**Uruguay**	17.00
Congo	108.00	**Jordan**	35.00	**Paraguay**	32.00	**Uzbekistan**	58.00
Costa Rica	14.00	**Kazakhstan**	42.00	**Peru**	52.00	**Venezuela**	23.00
Croatia	9.00	**Kenya**	118.00	**Philippines**	42.00	**Vietnam**	40.00
Cuba	8.00	**Kuwait**	12.00	**Poland**	10.00	**Zaire**	207.00
Czech Rep.	5.00	**Kyrgyzstan**	65.00	**Portugal**	6.00	**Zambia**	202.00
Denmark	5.00	**Laos**	111.00	**Romania**	24.00	**Zimbabwe**	90.00
Dom. Rep.	49.00	**Latvia**	21.00	**Russia**	22.00		
Ecuador	35.00	**Lebanon**	32.00	**Rwanda**	180.00		

Variable: UND_NO

Name: Proportion of undernourished in total population

Units: Percentage of Total Population **Reference Year:** MRYA 1997-1999

Source Food and Agriculture Organization, The State of Food Insecurity in the World 2001, Rome: FAO, 2001, http://www.fao.org/docrep/003/y1500e/y1500e06.htm.

Logic: This indicator represents a measure of the population vulnerability to malnutrition, famine or diseases, in addition to showing the incapacity of an economy to supply an adequate amount of food and to manage food resources.

Methodology:

Mean	16.52	**Max**	75	**97.5 percentile cut-off value:**	59.4
Median	11	**Min**	1	**2.5 percentile cut-off value:**	1

Albania	10.00	**Egypt**	4.00	**Liberia**	42.00	**Saudi Arabia**	1.00
Algeria	6.00	**El Salvador**	12.00	**Libya**	1.00	**Senegal**	24.00
Angola	51.00	**Estonia**	4.00	**Lithuania**	3.00	**Sierra Leone**	41.00
Argentina	1.00	**Ethiopia**	49.00	**Macedonia**	5.00	**Slovakia**	1.00
Armenia	35.00	**Finland**	1.00	**Madagascar**	40.00	**Slovenia**	1.00
Australia	1.00	**France**	1.00	**Malawi**	35.00	**Somalia**	75.00
Austria	1.00	**Gabon**	9.00	**Malaysia**	1.00	**South Africa**	[11.8]
Azerbaijan	37.00	**Gambia**	15.00	**Mali**	28.00	**South Korea**	1.00
Bangladesh	33.00	**Germany**	1.00	**Mauritania**	11.00	**Spain**	1.00
Belgium	1.00	**Ghana**	15.00	**Mexico**	5.00	**Sri Lanka**	23.00
Benin	15.00	**Greece**	1.00	**Moldova**	10.00	**Sudan**	21.00
Bhutan	[30.38]	**Guatemala**	22.00	**Mongolia**	[23.88]	**Sweden**	1.00
Bolivia	22.00	**Guinea**	34.00	**Morocco**	6.00	**Switzerland**	1.00
Bosnia and H.	4.00	**Guinea-Bissau**	[41.4]	**Mozambique**	54.00	**Syria**	1.00
Botswana	23.00	**Haiti**	56.00	**Myanmar**	7.00	**Tajikistan**	47.00
Brazil	10.00	**Honduras**	21.00	**Namibia**	33.00	**Tanzania**	46.00
Bulgaria	11.00	**Hungary**	1.00	**Nepal**	23.00	**Thailand**	21.00
Burkina Faso	24.00	**Iceland**	1.00	**Netherlands**	1.00	**Togo**	17.00
Burundi	66.00	**India**	23.00	**New Zealand**	1.00	**Trin. and Tob.**	13.00
Byelarus	1.00	**Indonesia**	6.00	**Nicaragua**	29.00	**Tunisia**	1.00
Cambodia	37.00	**Iran**	5.00	**Niger**	41.00	**Turkey**	1.00
Cameroon	25.00	**Iraq**	14.00	**Nigeria**	7.00	**Turkmenistan**	9.00
Canada	1.00	**Ireland**	1.00	**North Korea**	42.00	**Uganda**	28.00
Central Af. R.	43.00	**Israel**	1.00	**Norway**	1.00	**Ukraine**	5.00
Chad	34.00	**Italy**	1.00	**Oman**	[21]	**United Ar. Em.**	1.00
Chile	4.00	**Ivory Coast**	16.00	**Pakistan**	18.00	**United King.**	1.00
China	9.00	**Jamaica**	8.00	**Panama**	16.00	**United States**	1.00
Colombia	13.00	**Japan**	1.00	**Papua N.G.**	26.00	**Uruguay**	3.00
Congo	32.00	**Jordan**	5.00	**Paraguay**	13.00	**Uzbekistan**	4.00
Costa Rica	5.00	**Kazakhstan**	11.00	**Peru**	13.00	**Venezuela**	21.00
Croatia	15.00	**Kenya**	46.00	**Philippines**	24.00	**Vietnam**	19.00
Cuba	17.00	**Kuwait**	4.00	**Poland**	1.00	**Zaire**	64.00
Czech Rep.	1.00	**Kyrgyzstan**	11.00	**Portugal**	1.00	**Zambia**	47.00
Denmark	1.00	**Laos**	28.00	**Romania**	1.00	**Zimbabwe**	39.00
Dom. Rep.	25.00	**Latvia**	4.00	**Russia**	6.00		
Ecuador	5.00	**Lebanon**	1.00	**Rwanda**	40.00		

Variable: VIENNA

Name: Levels of ratification under the Vienna Convention for the Protection of the Ozone Layer

Units: Index Ranging from 0 (No Participation) to 3 (High Levels of **Reference Year:** 2001

Source United Nations Environment Program, The Ozone Secretariat, http://www.unep.org/ozone/ratif.shtml.

Logic: The number of protocols and amendments that a country has acceded to or ratified under the Vienna Convention is an indication of its commitment to fight ozone depletion

Methodology: The index assigned values as follows. Countries received a score of zero if they were not signatory to the Vienna Convention. They received a score of 1 if they had ratified the Montreal Protocol only. They received a score of 2 if they ratified the above plus the London Amendment. They received a score of 2.5 if they ratified the above plus the Copenhagen Amendment. They received a score of 3 if they ratified the above plus the Montreal Amendment.

Mean	2.36	**Max**	3	**97.5 percentile cut-off value:**	3
Median	2.5	**Min**	0	**2.5 percentile cut-off value:**	0.58

Albania	1.00	**Egypt**	3.00	**Liberia**	2.50	**Saudi Arabia**	2.50
Algeria	2.50	**El Salvador**	3.00	**Libya**	1.00	**Senegal**	3.00
Angola	1.00	**Estonia**	2.50	**Lithuania**	2.50	**Sierra Leone**	3.00
Argentina	3.00	**Ethiopia**	1.00	**Macedonia**	3.00	**Slovakia**	3.00
Armenia	1.00	**Finland**	3.00	**Madagascar**	1.00	**Slovenia**	3.00
Australia	3.00	**France**	2.50	**Malawi**	2.50	**Somalia**	3.00
Austria	3.00	**Gabon**	3.00	**Malaysia**	3.00	**South Africa**	2.50
Azerbaijan	3.00	**Gambia**	2.00	**Mali**	2.00	**South Korea**	3.00
Bangladesh	3.00	**Germany**	3.00	**Mauritania**	1.00	**Spain**	3.00
Belgium	2.50	**Ghana**	2.50	**Mexico**	2.50	**Sri Lanka**	3.00
Benin	2.50	**Greece**	2.50	**Moldova**	1.00	**Sudan**	1.00
Bhutan	0.00	**Guatemala**	1.00	**Mongolia**	2.50	**Sweden**	3.00
Bolivia	3.00	**Guinea**	2.00	**Morocco**	2.50	**Switzerland**	2.50
Bosnia and H.	1.00	**Guinea-Bissau**	0.00	**Mozambique**	2.50	**Syria**	3.00
Botswana	2.50	**Haiti**	3.00	**Myanmar**	2.00	**Tajikistan**	2.00
Brazil	2.50	**Honduras**	1.00	**Namibia**	2.00	**Tanzania**	2.00
Bulgaria	3.00	**Hungary**	3.00	**Nepal**	2.00	**Thailand**	2.50
Burkina Faso	2.50	**Iceland**	3.00	**Netherlands**	3.00	**Togo**	2.50
Burundi	3.00	**India**	2.00	**New Zealand**	3.00	**Trin. and Tob.**	3.00
Byelarus	2.00	**Indonesia**	2.50	**Nicaragua**	2.50	**Tunisia**	3.00
Cambodia	1.00	**Iran**	3.00	**Niger**	3.00	**Turkey**	2.50
Cameroon	2.50	**Iraq**	0.00	**Nigeria**	1.00	**Turkmenistan**	2.00
Canada	3.00	**Ireland**	2.50	**North Korea**	2.50	**Uganda**	3.00
Central Af. R.	1.00	**Israel**	2.50	**Norway**	3.00	**Ukraine**	2.00
Chad	2.50	**Italy**	3.00	**Oman**	2.50	**United Ar. Em.**	1.00
Chile	3.00	**Ivory Coast**	2.00	**Pakistan**	2.50	**United King.**	3.00
China	2.00	**Jamaica**	2.50	**Panama**	3.00	**United States**	2.50
Colombia	2.50	**Japan**	2.50	**Papua N.G.**	2.00	**Uruguay**	3.00
Congo	3.00	**Jordan**	3.00	**Paraguay**	3.00	**Uzbekistan**	3.00
Costa Rica	2.50	**Kazakhstan**	2.00	**Peru**	2.50	**Venezuela**	2.50
Croatia	3.00	**Kenya**	3.00	**Philippines**	2.50	**Vietnam**	2.50
Cuba	2.50	**Kuwait**	2.50	**Poland**	3.00	**Zaire**	2.50
Czech Rep.	3.00	**Kyrgyzstan**	1.00	**Portugal**	2.50	**Zambia**	2.00
Denmark	2.50	**Laos**	1.00	**Romania**	3.00	**Zimbabwe**	2.50
Dom. Rep.	1.00	**Latvia**	2.50	**Russia**	2.00		
Ecuador	2.50	**Lebanon**	3.00	**Rwanda**	1.00		

Variable: VOCKM

Name: VOCs emissions per populated land area

Units: 1000 Metric Tons/Sq. Km. of Populated Land Area **Reference Year:** 2000

Source Intergovernmental Panel on Climate Change: Special Report on Emissions Scenarios, Data Version 1.1, B1 Illustrative Marker Scenario with model IMAGE. Available at http://sres.ciesin.columbia.edu/final_data.html

Logic: Indicator of air pollution: emissions contibute to declines in air quality.The use of a Gridded dataset gives more detailed information about the distribution of pollution sources and permits a better estimate of total emissions within each country.

Methodology: The gridded emissions data, originally available as 1x1 degree cells, were summarized at the country level to give the total emissions for each country. Air pollution is generally greatest in densely populated areas. To take this into account, we used the Gridded Population of the World dataset available from CIESIN and calculated the total land area in each country inhabited with a population density of greater than 5 persons per sq. km. We then utilized this land area as the denominator for the emissions data.

Mean	2.35	**Max**	18.9	**97.5 percentile cut-off value:**	10.1
Median	1.555	**Min**	0.08	**2.5 percentile cut-off value:**	0.25

Albania	0.57	**Egypt**	7.94	**Liberia**	1.65	**Saudi Arabia**	4.10
Algeria	2.42	**El Salvador**	0.60	**Libya**	18.90	**Senegal**	1.20
Angola	1.94	**Estonia**	0.41	**Lithuania**	1.42	**Sierra Leone**	1.39
Argentina	0.82	**Ethiopia**	1.13	**Macedonia**	1.30	**Slovakia**	1.54
Armenia	2.41	**Finland**	0.47	**Madagascar**	0.71	**Slovenia**	1.48
Australia	3.34	**France**	3.74	**Malawi**	1.46	**Somalia**	0.50
Austria	3.13	**Gabon**	0.96	**Malaysia**	1.87	**South Africa**	1.62
Azerbaijan	1.87	**Gambia**	[2.46]	**Mali**	0.70	**South Korea**	2.78
Bangladesh	5.22	**Germany**	7.09	**Mauritania**	1.02	**Spain**	1.59
Belgium	9.46	**Ghana**	2.21	**Mexico**	2.51	**Sri Lanka**	1.12
Benin	1.08	**Greece**	1.80	**Moldova**	0.46	**Sudan**	1.70
Bhutan	0.60	**Guatemala**	2.17	**Mongolia**	0.58	**Sweden**	0.68
Bolivia	1.31	**Guinea**	0.71	**Morocco**	0.61	**Switzerland**	3.01
Bosnia and H.	1.52	**Guinea-Bissau**	0.83	**Mozambique**	0.93	**Syria**	1.97
Botswana	13.59	**Haiti**	0.28	**Myanmar**	1.07	**Tajikistan**	0.79
Brazil	2.02	**Honduras**	1.31	**Namibia**	9.40	**Tanzania**	1.57
Bulgaria	1.16	**Hungary**	2.67	**Nepal**	2.07	**Thailand**	1.82
Burkina Faso	1.21	**Iceland**	6.29	**Netherlands**	5.75	**Togo**	1.46
Burundi	2.29	**India**	3.19	**New Zealand**	0.57	**Trin. and Tob.**	[2.9]
Byelarus	1.24	**Indonesia**	1.65	**Nicaragua**	0.63	**Tunisia**	1.08
Cambodia	2.73	**Iran**	0.98	**Niger**	1.01	**Turkey**	1.08
Cameroon	1.26	**Iraq**	2.88	**Nigeria**	3.80	**Turkmenistan**	0.42
Canada	4.04	**Ireland**	1.43	**North Korea**	1.91	**Uganda**	2.46
Central Af. R.	3.29	**Israel**	2.34	**Norway**	0.76	**Ukraine**	2.04
Chad	0.96	**Italy**	3.59	**Oman**	1.45	**United Ar. Em.**	10.55
Chile	0.52	**Ivory Coast**	1.74	**Pakistan**	1.53	**United King.**	9.77
China	2.08	**Jamaica**	1.18	**Panama**	0.37	**United States**	2.81
Colombia	2.76	**Japan**	7.85	**Papua N.G.**	0.08	**Uruguay**	0.48
Congo	1.91	**Jordan**	0.91	**Paraguay**	2.26	**Uzbekistan**	0.74
Costa Rica	0.19	**Kazakhstan**	0.58	**Peru**	0.61	**Venezuela**	3.88
Croatia	1.50	**Kenya**	2.32	**Philippines**	2.21	**Vietnam**	2.21
Cuba	0.66	**Kuwait**	7.08	**Poland**	1.42	**Zaire**	1.00
Czech Rep.	2.82	**Kyrgyzstan**	0.77	**Portugal**	1.03	**Zambia**	2.55
Denmark	4.45	**Laos**	1.03	**Romania**	1.91	**Zimbabwe**	1.19
Dom. Rep.	0.45	**Latvia**	0.21	**Russia**	1.67		
Ecuador	2.39	**Lebanon**	5.61	**Rwanda**	5.13		

Variable: WATCAP

Name: Water availability per capita

Units: Thousands Cubic Meters/Person **Reference Year:** 1961-1990 (avg.)

Source Center for Environmental Systems Research, University of Kassel, WaterGAP 2.1B, 2001

Logic: The per capita volume of internal renewable water resources in a country is important for a variety of environmental services and to support the needs of the population.

Methodology: This variable measures internal renewable water (average annual surface runoff and groundwater recharge generated from endogenous precipitation, taking into account evaporation from lakes and wetlands) per capita. These data are derived from the WaterGap 2.1 gridded hydrological model developed by the Center for Environmental Systems Research, University of Kassel, Germany. A special run of the model was performed in order to derive country-level estimates of internal renewable water resources. There are some problems, in that the size of the grid cells (0.5 x 0.5 degree) do not accurately capture small countries. It was felt, however, that the consistent definitions used, and the fact that the model itself is based on over 30 years of global hydrological data, mean that the data are more comparable than similar country water resources estimates published elsewhere.

Mean	14	**Max**	294.34	**97.5 percentile cut-off value:**	0.11
Median	2.795	**Min**	-7.46	**2.5 percentile cut-off value:**	0

Albania	4.09	**Egypt**	-0.24	**Liberia**	58.85	**Saudi Arabia**	0.22
Algeria	0.39	**El Salvador**	1.59	**Libya**	0.60	**Senegal**	0.96
Angola	24.24	**Estonia**	7.40	**Lithuania**	5.10	**Sierra Leone**	21.97
Argentina	7.65	**Ethiopia**	2.17	**Macedonia**	2.55	**Slovakia**	2.24
Armenia	1.12	**Finland**	18.01	**Madagascar**	22.55	**Slovenia**	8.04
Australia	27.81	**France**	3.26	**Malawi**	1.55	**Somalia**	0.24
Austria	6.37	**Gabon**	176.37	**Malaysia**	20.24	**South Africa**	1.25
Azerbaijan	0.79	**Gambia**	0.40	**Mali**	0.40	**South Korea**	1.16
Bangladesh	0.60	**Germany**	1.35	**Mauritania**	0.18	**Spain**	2.33
Belgium	1.19	**Ghana**	1.87	**Mexico**	3.47	**Sri Lanka**	1.62
Benin	2.25	**Greece**	2.96	**Moldova**	1.83	**Sudan**	-0.53
Bhutan	14.08	**Guatemala**	14.03	**Mongolia**	16.32	**Sweden**	15.91
Bolivia	51.39	**Guinea**	10.13	**Morocco**	0.42	**Switzerland**	5.74
Bosnia and H.	7.91	**Guinea-Bissau**	19.15	**Mozambique**	5.81	**Syria**	0.35
Botswana	-7.46	**Haiti**	0.93	**Myanmar**	20.06	**Tajikistan**	5.56
Brazil	37.25	**Honduras**	13.09	**Namibia**	-1.94	**Tanzania**	3.64
Bulgaria	2.00	**Hungary**	1.17	**Nepal**	5.97	**Thailand**	3.50
Burkina Faso	0.86	**Iceland**	294.34	**Netherlands**	0.65	**Togo**	2.71
Burundi	0.65	**India**	1.56	**New Zealand**	79.81	**Trin. and Tob.**	1.58
Byelarus	2.79	**Indonesia**	10.96	**Nicaragua**	29.15	**Tunisia**	0.22
Cambodia	9.92	**Iran**	0.63	**Niger**	-0.33	**Turkey**	2.59
Cameroon	17.30	**Iraq**	-0.45	**Nigeria**	2.26	**Turkmenistan**	-0.49
Canada	84.51	**Ireland**	12.47	**North Korea**	2.11	**Uganda**	1.00
Central Af. R.	37.41	**Israel**	0.36	**Norway**	57.71	**Ukraine**	1.26
Chad	-3.28	**Italy**	2.04	**Oman**	0.93	**United Ar. Em.**	-0.91
Chile	19.56	**Ivory Coast**	6.87	**Pakistan**	0.23	**United King.**	3.10
China	1.72	**Jamaica**	3.24	**Panama**	30.79	**United States**	7.09
Colombia	45.56	**Japan**	2.60	**Papua N.G.**	154.61	**Uruguay**	24.24
Congo	53.89	**Jordan**	0.07	**Paraguay**	10.77	**Uzbekistan**	0.31
Costa Rica	23.35	**Kazakhstan**	3.63	**Peru**	47.55	**Venezuela**	33.83
Croatia	6.01	**Kenya**	1.51	**Philippines**	3.79	**Vietnam**	2.80
Cuba	2.01	**Kuwait**	-0.20	**Poland**	1.48	**Zaire**	21.00
Czech Rep.	1.45	**Kyrgyzstan**	5.47	**Portugal**	3.25	**Zambia**	10.01
Denmark	2.49	**Laos**	40.43	**Romania**	1.45	**Zimbabwe**	3.40
Dom. Rep.	1.92	**Latvia**	6.31	**Russia**	22.82		
Ecuador	30.37	**Lebanon**	0.66	**Rwanda**	0.95		

Variable: WATINC

Name: Water inflow availability per capita

Units: Thousands Cubic Meters/Person **Reference Year:** 1961-1990 (avg.)

Source Center for Environmental Systems Research, University of Kassel, WaterGAP 2.1B, 2001

Logic: The sum of per capita internal water availability and the per capita volume of water flowing into a country provides a more complete assessment of a country's water resources, which are important for a variety of environmental services and to support the needs of the population.

Methodology: These data are derived from the WaterGap 2.1 gridded hydrological model developed by the Center for Environmental Systems Research, University of Kassel, Germany. A special run of the model was performed in order to derive country-level estimates of inflow from other countries. There are some problems, in that the size of the grid cells (0.5 x 0.5 degree) do not accurately capture small countries. It was felt, however, that the consistent definitions used, and the fact that the model itself is based on over 30 years of global hydrological data, mean that the data are more comparable than similiar country water resource estimates published elsewhere. In calculating the ESI, the base-10 logarithm of this variable was used.

Mean	11.53	**Max**	486.98	**97.5 percentile cut-off value:**	0.1
Median	1.395	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	2.83	**Egypt**	1.25	**Liberia**	15.79	**Saudi Arabia**	0.00
Algeria	0.04	**El Salvador**	1.59	**Libya**	0.20	**Senegal**	1.68
Angola	110.82	**Estonia**	5.38	**Lithuania**	2.95	**Sierra Leone**	5.25
Argentina	18.72	**Ethiopia**	0.04	**Macedonia**	0.00	**Slovakia**	12.70
Armenia	0.56	**Finland**	2.35	**Madagascar**	0.00	**Slovenia**	6.53
Australia	0.00	**France**	0.79	**Malawi**	0.41	**Somalia**	2.93
Austria	4.75	**Gabon**	22.28	**Malaysia**	0.50	**South Africa**	0.11
Azerbaijan	2.25	**Gambia**	7.20	**Mali**	5.93	**South Korea**	0.09
Bangladesh	9.36	**Germany**	1.21	**Mauritania**	7.73	**Spain**	0.05
Belgium	0.59	**Ghana**	1.02	**Mexico**	0.67	**Sri Lanka**	0.00
Benin	6.93	**Greece**	1.24	**Moldova**	3.66	**Sudan**	4.28
Bhutan	5.96	**Guatemala**	1.40	**Mongolia**	2.45	**Sweden**	0.91
Bolivia	29.54	**Guinea**	10.13	**Morocco**	0.00	**Switzerland**	0.00
Bosnia and H.	8.78	**Guinea-Bissau**	0.14	**Mozambique**	8.97	**Syria**	1.83
Botswana	23.74	**Haiti**	0.13	**Myanmar**	3.64	**Tajikistan**	5.74
Brazil	16.44	**Honduras**	5.66	**Namibia**	49.89	**Tanzania**	1.20
Bulgaria	21.88	**Hungary**	10.56	**Nepal**	1.18	**Thailand**	5.02
Burkina Faso	0.10	**Iceland**	0.00	**Netherlands**	5.50	**Togo**	0.99
Burundi	0.97	**India**	0.39	**New Zealand**	0.00	**Trin. and Tob.**	0.00
Byelarus	2.02	**Indonesia**	0.32	**Nicaragua**	2.71	**Tunisia**	0.22
Cambodia	36.37	**Iran**	0.42	**Niger**	5.90	**Turkey**	0.18
Cameroon	2.88	**Iraq**	3.09	**Nigeria**	0.83	**Turkmenistan**	11.28
Canada	4.73	**Ireland**	1.39	**North Korea**	0.45	**Uganda**	1.16
Central Af. R.	21.29	**Israel**	0.00	**Norway**	2.53	**Ukraine**	0.56
Chad	8.65	**Italy**	0.05	**Oman**	0.00	**United Ar. Em.**	0.91
Chile	1.13	**Ivory Coast**	1.33	**Pakistan**	0.68	**United King.**	0.03
China	0.12	**Jamaica**	0.00	**Panama**	0.00	**United States**	1.36
Colombia	39.23	**Japan**	0.00	**Papua N.G.**	0.93	**Uruguay**	235.85
Congo	486.98	**Jordan**	0.17	**Paraguay**	99.41	**Uzbekistan**	2.54
Costa Rica	2.25	**Kazakhstan**	4.30	**Peru**	19.17	**Venezuela**	27.47
Croatia	27.60	**Kenya**	0.81	**Philippines**	0.00	**Vietnam**	6.07
Cuba	0.00	**Kuwait**	0.00	**Poland**	0.23	**Zaire**	8.87
Czech Rep.	0.58	**Kyrgyzstan**	0.00	**Portugal**	2.33	**Zambia**	5.74
Denmark	0.00	**Laos**	36.45	**Romania**	7.74	**Zimbabwe**	3.77
Dom. Rep.	0.13	**Latvia**	7.10	**Russia**	1.48		
Ecuador	1.22	**Lebanon**	0.00	**Rwanda**	0.95		

Variable: WATSTR

Name: Percent of country's territory under severe water stress

Units: Percent of Land Area **Reference Year:** 1961-1990 (avg.)

Source Center for Environmental Systems Research, University of Kassel, WaterGap 2.1, 2000

Logic: The regional distribution of water availability relative to population and consumption needs is as important as its overall water availability. This variable captures the percent of the territory that is under water stress, which will affect the availability of water for environmental services and human well-being.

Methodology: These data are derived from the WaterGap 2.1 gridded hydrological model developed by the Center for Environmental Systems Research, University of Kassel, Germany. The modelers derived grid cell by grid cell estimates for every country of whether the water consumption exceeds 40 percent of the water available in that particular grid cell. These were then converted to land area equivalents, and the percentage of the territory under severe water stress was calculated.

Mean	25.49	**Max**	100	**97.5 percentile cut-off value:**	98.81
Median	3.3	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	19.50	**Egypt**	88.10	**Liberia**	0.00	**Saudi Arabia**	88.30
Algeria	71.00	**El Salvador**	0.00	**Libya**	83.70	**Senegal**	5.00
Angola	0.00	**Estonia**	0.30	**Lithuania**	0.40	**Sierra Leone**	0.00
Argentina	23.30	**Ethiopia**	24.70	**Macedonia**	91.60	**Slovakia**	0.00
Armenia	84.60	**Finland**	2.10	**Madagascar**	1.70	**Slovenia**	0.00
Australia	8.00	**France**	19.40	**Malawi**	0.00	**Somalia**	26.90
Austria	0.00	**Gabon**	0.00	**Malaysia**	1.60	**South Africa**	68.50
Azerbaijan	95.40	**Gambia**	--	**Mali**	2.70	**South Korea**	49.80
Bangladesh	22.10	**Germany**	1.10	**Mauritania**	6.90	**Spain**	72.30
Belgium	93.90	**Ghana**	0.00	**Mexico**	43.80	**Sri Lanka**	39.50
Benin	0.00	**Greece**	58.00	**Moldova**	6.30	**Sudan**	31.10
Bhutan	0.00	**Guatemala**	0.00	**Mongolia**	8.10	**Sweden**	0.60
Bolivia	14.00	**Guinea**	0.00	**Morocco**	81.50	**Switzerland**	0.00
Bosnia and H.	0.00	**Guinea-Bissau**	0.00	**Mozambique**	13.60	**Syria**	99.60
Botswana	14.20	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	93.20
Brazil	0.30	**Honduras**	0.00	**Namibia**	17.80	**Tanzania**	0.00
Bulgaria	45.90	**Hungary**	0.00	**Nepal**	98.10	**Thailand**	0.60
Burkina Faso	0.00	**Iceland**	0.00	**Netherlands**	36.00	**Togo**	0.00
Burundi	0.00	**India**	80.20	**New Zealand**	0.00	**Trin. and Tob.**	100.00
Byelarus	0.00	**Indonesia**	1.40	**Nicaragua**	0.30	**Tunisia**	89.00
Cambodia	0.00	**Iran**	87.50	**Niger**	40.50	**Turkey**	61.70
Cameroon	0.00	**Iraq**	86.90	**Nigeria**	17.80	**Turkmenistan**	92.90
Canada	0.90	**Ireland**	0.00	**North Korea**	2.80	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	100.00	**Norway**	0.40	**Ukraine**	17.00
Chad	2.30	**Italy**	26.30	**Oman**	49.20	**United Ar. Em.**	74.00
Chile	41.10	**Ivory Coast**	0.00	**Pakistan**	76.30	**United King.**	21.00
China	44.70	**Jamaica**	0.00	**Panama**	0.00	**United States**	31.30
Colombia	1.00	**Japan**	9.50	**Papua N.G.**	0.00	**Uruguay**	0.00
Congo	--	**Jordan**	82.60	**Paraguay**	0.00	**Uzbekistan**	87.10
Costa Rica	0.00	**Kazakhstan**	60.40	**Peru**	23.60	**Venezuela**	2.40
Croatia	0.00	**Kenya**	1.10	**Philippines**	10.40	**Vietnam**	2.80
Cuba	24.60	**Kuwait**	97.70	**Poland**	0.00	**Zaire**	0.00
Czech Rep.	0.00	**Kyrgyzstan**	93.00	**Portugal**	54.70	**Zambia**	0.00
Denmark	7.70	**Laos**	0.00	**Romania**	1.70	**Zimbabwe**	16.20
Dom. Rep.	4.50	**Latvia**	0.00	**Russia**	3.80		
Ecuador	1.20	**Lebanon**	82.10	**Rwanda**	0.00		

Variable: WATSUP

Name: Percent of population with access to clean water

Units: Percent of Population **Reference Year:** 2000

Source World Health Organization and the United Nations Children's Fund, Global Water Supply and Sanitation Assessment 2000, New York: WHO and UNICEF, 2000.

Logic: The percentage of population with access to improved sources of drinking water supply is directly related to the capacity of a country to provide a healthy environment, reducing the risks associated with water-borne diseases and exposure to pollutants.

Methodology:

Mean	77.52	**Max**	100	**97.5 percentile cut-off value:**	100
Median	82.095	**Min**	24	**2.5 percentile cut-off value:**	29.15

Albania	[62.62]	**Egypt**	95.00	**Liberia**	[43.88]	**Saudi Arabia**	95.00
Algeria	94.00	**El Salvador**	74.00	**Libya**	72.00	**Senegal**	78.00
Angola	38.00	**Estonia**	[82.44]	**Lithuania**	[55.64]	**Sierra Leone**	28.00
Argentina	79.00	**Ethiopia**	24.00	**Macedonia**	[90.6]	**Slovakia**	100.00
Armenia	[76.88]	**Finland**	100.00	**Madagascar**	47.00	**Slovenia**	100.00
Australia	100.00	**France**	[91.68]	**Malawi**	57.00	**Somalia**	[57.71]
Austria	100.00	**Gabon**	70.00	**Malaysia**	[83.12]	**South Africa**	86.00
Azerbaijan	[78.73]	**Gambia**	62.00	**Mali**	65.00	**South Korea**	92.00
Bangladesh	97.00	**Germany**	[87.43]	**Mauritania**	37.00	**Spain**	[86.96]
Belgium	[87.99]	**Ghana**	64.00	**Mexico**	86.00	**Sri Lanka**	83.00
Benin	63.00	**Greece**	[90.49]	**Moldova**	100.00	**Sudan**	75.00
Bhutan	62.00	**Guatemala**	92.00	**Mongolia**	60.00	**Sweden**	100.00
Bolivia	79.00	**Guinea**	49.00	**Morocco**	82.00	**Switzerland**	100.00
Bosnia and H.	[69.83]	**Guinea-Bissau**	48.00	**Mozambique**	60.00	**Syria**	80.00
Botswana	95.00	**Haiti**	46.00	**Myanmar**	68.00	**Tajikistan**	[81.92]
Brazil	87.00	**Honduras**	90.00	**Namibia**	77.00	**Tanzania**	54.00
Bulgaria	100.00	**Hungary**	99.00	**Nepal**	81.00	**Thailand**	80.00
Burkina Faso	53.00	**Iceland**	[96.52]	**Netherlands**	100.00	**Togo**	54.00
Burundi	65.00	**India**	88.00	**New Zealand**	[91.83]	**Trin. and Tob.**	86.00
Byelarus	100.00	**Indonesia**	76.00	**Nicaragua**	79.00	**Tunisia**	80.00
Cambodia	30.00	**Iran**	95.00	**Niger**	59.00	**Turkey**	83.00
Cameroon	62.00	**Iraq**	85.00	**Nigeria**	57.00	**Turkmenistan**	[86.58]
Canada	100.00	**Ireland**	[96.92]	**North Korea**	100.00	**Uganda**	50.00
Central Af. R.	60.00	**Israel**	[86.57]	**Norway**	100.00	**Ukraine**	[81.12]
Chad	27.00	**Italy**	[92.59]	**Oman**	39.00	**United Ar. Em.**	[82.5]
Chile	94.00	**Ivory Coast**	77.00	**Pakistan**	88.00	**United King.**	100.00
China	75.00	**Jamaica**	71.00	**Panama**	87.00	**United States**	100.00
Colombia	91.00	**Japan**	[94.59]	**Papua N.G.**	42.00	**Uruguay**	98.00
Congo	51.00	**Jordan**	96.00	**Paraguay**	[78.23]	**Uzbekistan**	85.00
Costa Rica	98.00	**Kazakhstan**	91.00	**Peru**	77.00	**Venezuela**	84.00
Croatia	[93.58]	**Kenya**	49.00	**Philippines**	87.00	**Vietnam**	56.00
Cuba	95.00	**Kuwait**	[81.02]	**Poland**	[81.9]	**Zaire**	45.00
Czech Rep.	[84.5]	**Kyrgyzstan**	77.00	**Portugal**	[82.19]	**Zambia**	64.00
Denmark	100.00	**Laos**	90.00	**Romania**	58.00	**Zimbabwe**	85.00
Dom. Rep.	79.00	**Latvia**	[89.85]	**Russia**	99.00		
Ecuador	71.00	**Lebanon**	100.00	**Rwanda**	41.00		

Variable: WBCSD

Name: Number of World Business Council on Sustainable Development members, per GDP

Units: Members per Billion Dollars GDP **Reference Year:** 2001

Source World Business Council on Sustainable Development, List of Members, http://www.wbcsd.org/aboutus/members.htm.

Logic: The WBCSD is a prominent private-sector organization promoting the principles of sustainable development and encouraging high standards of environmental management within firms.

Methodology:

Mean	2.98	**Max**	61.93	**97.5 percentile cut-off value:**	41.96
Median	0	**Min**	0	**2.5 percentile cut-off value:**	0

Albania	0.00	**Egypt**	0.00	**Liberia**	0.00	**Saudi Arabia**	0.00
Algeria	6.93	**El Salvador**	0.00	**Libya**	0.00	**Senegal**	0.00
Angola	0.00	**Estonia**	0.00	**Lithuania**	0.00	**Sierra Leone**	0.00
Argentina	2.19	**Ethiopia**	0.00	**Macedonia**	0.00	**Slovakia**	0.00
Armenia	0.00	**Finland**	35.27	**Madagascar**	0.00	**Slovenia**	0.00
Australia	9.15	**France**	6.21	**Malawi**	0.00	**Somalia**	0.00
Austria	0.00	**Gabon**	0.00	**Malaysia**	0.00	**South Africa**	2.73
Azerbaijan	0.00	**Gambia**	0.00	**Mali**	0.00	**South Korea**	3.04
Bangladesh	0.00	**Germany**	4.76	**Mauritania**	0.00	**Spain**	2.97
Belgium	0.00	**Ghana**	0.00	**Mexico**	3.91	**Sri Lanka**	0.00
Benin	0.00	**Greece**	0.00	**Moldova**	0.00	**Sudan**	0.00
Bhutan	0.00	**Guatemala**	0.00	**Mongolia**	0.00	**Sweden**	10.52
Bolivia	0.00	**Guinea**	0.00	**Morocco**	0.00	**Switzerland**	58.42
Bosnia and H.	0.00	**Guinea-Bissau**	0.00	**Mozambique**	0.00	**Syria**	0.00
Botswana	0.00	**Haiti**	0.00	**Myanmar**	0.00	**Tajikistan**	0.00
Brazil	2.59	**Honduras**	0.00	**Namibia**	0.00	**Tanzania**	0.00
Bulgaria	0.00	**Hungary**	0.00	**Nepal**	0.00	**Thailand**	2.86
Burkina Faso	0.00	**Iceland**	0.00	**Netherlands**	22.03	**Togo**	0.00
Burundi	0.00	**India**	0.00	**New Zealand**	14.55	**Trin. and Tob.**	0.00
Byelarus	0.00	**Indonesia**	0.00	**Nicaragua**	0.00	**Tunisia**	0.00
Cambodia	0.00	**Iran**	0.00	**Niger**	0.00	**Turkey**	0.00
Cameroon	0.00	**Iraq**	0.00	**Nigeria**	0.00	**Turkmenistan**	0.00
Canada	11.91	**Ireland**	0.00	**North Korea**	0.00	**Uganda**	0.00
Central Af. R.	0.00	**Israel**	0.00	**Norway**	48.59	**Ukraine**	0.00
Chad	0.00	**Italy**	2.41	**Oman**	0.00	**United Ar. Em.**	0.00
Chile	7.67	**Ivory Coast**	0.00	**Pakistan**	0.00	**United King.**	10.31
China	0.24	**Jamaica**	0.00	**Panama**	0.00	**United States**	4.64
Colombia	0.00	**Japan**	6.47	**Papua N.G.**	0.00	**Uruguay**	0.00
Congo	0.00	**Jordan**	0.00	**Paraguay**	0.00	**Uzbekistan**	0.00
Costa Rica	37.06	**Kazakhstan**	0.00	**Peru**	0.00	**Venezuela**	0.00
Croatia	61.93	**Kenya**	0.00	**Philippines**	0.00	**Vietnam**	0.00
Cuba	0.00	**Kuwait**	0.00	**Poland**	0.00	**Zaire**	0.00
Czech Rep.	0.00	**Kyrgyzstan**	0.00	**Portugal**	19.54	**Zambia**	0.00
Denmark	22.33	**Laos**	0.00	**Romania**	0.00	**Zimbabwe**	0.00
Dom. Rep.	0.00	**Latvia**	0.00	**Russia**	1.96		
Ecuador	0.00	**Lebanon**	0.00	**Rwanda**	0.00		

Variable: WEFAGR
Name: Compliance with environmental agreements (WEF survey)
Units: Survey Responses Ranging from 1 (Strongly Disagree) to 7 **Reference Year:** 2000
Source Michael E. Porter et al, The Global Competitveness Report 2001. Oxford: Oxford University Press, 2001.
Logic: Where compliance is a high priority, other things equal, global obligations are more effectively honored.
Methodology: Response to the statement: "Compliance with international environmental agreements is a high priority."

Mean	4.45	**Max**	6.72	**97.5 percentile cut-off value:**	6.68
Median	4.38	**Min**	2.68	**2.5 percentile cut-off value:**	2.75

Albania	--	**Egypt**	4.42	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	3.02	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	5.42	**Lithuania**	4.33	**Sierra Leone**	--
Argentina	3.07	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	4.80
Armenia	--	**Finland**	6.72	**Madagascar**	--	**Slovenia**	4.71
Australia	5.42	**France**	5.67	**Malawi**	--	**Somalia**	--
Austria	6.33	**Gabon**	--	**Malaysia**	4.04	**South Africa**	4.34
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	4.48
Bangladesh	2.95	**Germany**	6.27	**Mauritania**	--	**Spain**	4.87
Belgium	5.46	**Ghana**	--	**Mexico**	3.94	**Sri Lanka**	3.30
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	2.68	**Mongolia**	--	**Sweden**	6.54
Bolivia	3.35	**Guinea**	--	**Morocco**	--	**Switzerland**	5.89
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	4.16	**Honduras**	3.13	**Namibia**	--	**Tanzania**	--
Bulgaria	3.88	**Hungary**	4.97	**Nepal**	--	**Thailand**	4.04
Burkina Faso	--	**Iceland**	5.86	**Netherlands**	6.18	**Togo**	--
Burundi	--	**India**	3.71	**New Zealand**	5.79	**Trin. and Tob.**	3.49
Byelarus	--	**Indonesia**	3.65	**Nicaragua**	2.86	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	3.94
Cameroon	--	**Iraq**	--	**Nigeria**	3.38	**Turkmenistan**	--
Canada	5.65	**Ireland**	4.83	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	4.04	**Norway**	6.06	**Ukraine**	3.69
Chad	--	**Italy**	5.37	**Oman**	--	**United Ar. Em.**	--
Chile	4.47	**Ivory Coast**	--	**Pakistan**	--	**United King.**	5.69
China	4.98	**Jamaica**	3.98	**Panama**	4.04	**United States**	5.22
Colombia	3.83	**Japan**	5.51	**Papua N.G.**	--	**Uruguay**	4.30
Congo	--	**Jordan**	4.50	**Paraguay**	2.78	**Uzbekistan**	--
Costa Rica	4.59	**Kazakhstan**	--	**Peru**	3.07	**Venezuela**	3.19
Croatia	--	**Kenya**	--	**Philippines**	3.33	**Vietnam**	4.49
Cuba	--	**Kuwait**	--	**Poland**	4.59	**Zaire**	--
Czech Rep.	5.26	**Kyrgyzstan**	--	**Portugal**	4.50	**Zambia**	--
Denmark	6.67	**Laos**	--	**Romania**	4.12	**Zimbabwe**	3.12
Dom. Rep.	3.80	**Latvia**	4.46	**Russia**	3.16		
Ecuador	3.06	**Lebanon**	--	**Rwanda**	--		

Variable: WEFGOV
Name: Environmental governance
Units: Principal Components of Several Survey Questions **Reference Year:** 2001
Source Michael E. Porter et al, The Global Competitveness Report 2001. Oxford: Oxford University Press, 2001.
Logic: Effective governance is vital for environmental sustainability.
Methodology: This represents the principal component of responses to several WEF survey questions touching on aspects of environmental governance: air pollution regulations, chemical waste regulations, clarity and staility of regulations, flexibility of regulations, environmental regulatory innovation, leadership in environmental policy, stringency of environmental regulations, consistency of regulation enforcement, environmental regulatory stringency, toxic waste disposal regulations, and water pollution regulations.

Mean	-0.02	**Max**	2.08	**97.5 percentile cut-off value:**	1.84
Median	-0.135	**Min**	-1.65	**2.5 percentile cut-off value:**	-1.56

Albania	--	**Egypt**	-0.13	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	-1.50	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	0.32	**Lithuania**	-0.16	**Sierra Leone**	--
Argentina	-0.82	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	0.24
Armenia	--	**Finland**	2.08	**Madagascar**	--	**Slovenia**	0.36
Australia	1.25	**France**	1.30	**Malawi**	--	**Somalia**	--
Austria	1.61	**Gabon**	--	**Malaysia**	0.11	**South Africa**	-0.09
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	0.01
Bangladesh	-1.53	**Germany**	1.67	**Mauritania**	--	**Spain**	0.43
Belgium	1.10	**Ghana**	--	**Mexico**	-0.51	**Sri Lanka**	-0.82
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	-1.65	**Mongolia**	--	**Sweden**	1.77
Bolivia	-1.19	**Guinea**	--	**Morocco**	--	**Switzerland**	1.66
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	-0.14	**Honduras**	-1.48	**Namibia**	--	**Tanzania**	--
Bulgaria	-0.65	**Hungary**	0.30	**Nepal**	--	**Thailand**	-0.32
Burkina Faso	--	**Iceland**	1.42	**Netherlands**	1.70	**Togo**	--
Burundi	--	**India**	-0.55	**New Zealand**	1.12	**Trin. and Tob.**	-0.84
Byelarus	--	**Indonesia**	-0.45	**Nicaragua**	-1.38	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	-0.51
Cameroon	--	**Iraq**	--	**Nigeria**	-1.21	**Turkmenistan**	--
Canada	1.31	**Ireland**	0.64	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	0.14	**Norway**	1.26	**Ukraine**	-1.08
Chad	--	**Italy**	0.59	**Oman**	--	**United Ar. Em.**	--
Chile	-0.16	**Ivory Coast**	--	**Pakistan**	--	**United King.**	1.28
China	-0.63	**Jamaica**	-0.17	**Panama**	-0.67	**United States**	1.44
Colombia	-0.51	**Japan**	1.12	**Papua N.G.**	--	**Uruguay**	-0.04
Congo	--	**Jordan**	0.01	**Paraguay**	-1.46	**Uzbekistan**	--
Costa Rica	-0.19	**Kazakhstan**	--	**Peru**	-1.07	**Venezuela**	-0.86
Croatia	--	**Kenya**	--	**Philippines**	-1.08	**Vietnam**	-1.20
Cuba	--	**Kuwait**	--	**Poland**	0.06	**Zaire**	--
Czech Rep.	0.29	**Kyrgyzstan**	--	**Portugal**	0.09	**Zambia**	--
Denmark	1.56	**Laos**	--	**Romania**	-0.58	**Zimbabwe**	-0.75
Dom. Rep.	-1.17	**Latvia**	0.12	**Russia**	-0.59		
Ecuador	-1.52	**Lebanon**	--	**Rwanda**	--		

Variable: WEFPRI
Name: Private sector environmental innovation
Units: Principal Components of Several Survey Questions **Reference Year:** 2001
Source Michael E. Porter et al, The Global Competitveness Report 2001. Oxford: Oxford University Press, 2001.
Logic: Private sector innovation contributes to solutions to environmental problems.
Methodology: This represents the principal component of responses to several WEF survey questions touching on several aspects of private sector environmental innovation: environmental competitiveness, prevalence of environmental management systems, and private sector cooperation with government.

Mean	-0.03	**Max**	2.63	**97.5 percentile cut-off value:**	2.08
Median	-0.07	**Min**	-2.55	**2.5 percentile cut-off value:**	-1.82

Albania	--	**Egypt**	0.04	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	-1.54	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	-0.18	**Lithuania**	-0.50	**Sierra Leone**	--
Argentina	-1.23	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	0.14
Armenia	--	**Finland**	2.63	**Madagascar**	--	**Slovenia**	-0.22
Australia	0.86	**France**	0.92	**Malawi**	--	**Somalia**	--
Austria	1.19	**Gabon**	--	**Malaysia**	0.43	**South Africa**	0.27
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	0.18
Bangladesh	-0.86	**Germany**	1.04	**Mauritania**	--	**Spain**	0.60
Belgium	0.97	**Ghana**	--	**Mexico**	-0.41	**Sri Lanka**	-1.06
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	-1.07	**Mongolia**	--	**Sweden**	1.90
Bolivia	-1.49	**Guinea**	--	**Morocco**	--	**Switzerland**	1.85
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	0.31	**Honduras**	-0.62	**Namibia**	--	**Tanzania**	--
Bulgaria	-0.84	**Hungary**	-0.08	**Nepal**	--	**Thailand**	0.05
Burkina Faso	--	**Iceland**	1.01	**Netherlands**	1.92	**Togo**	--
Burundi	--	**India**	-0.76	**New Zealand**	0.62	**Trin. and Tob.**	-0.06
Byelarus	--	**Indonesia**	-0.23	**Nicaragua**	-0.66	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	-0.94
Cameroon	--	**Iraq**	--	**Nigeria**	0.25	**Turkmenistan**	--
Canada	1.54	**Ireland**	0.69	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	-0.31	**Norway**	0.82	**Ukraine**	-1.35
Chad	--	**Italy**	-0.18	**Oman**	--	**United Ar. Em.**	--
Chile	-0.80	**Ivory Coast**	--	**Pakistan**	--	**United King.**	0.90
China	0.04	**Jamaica**	0.44	**Panama**	0.29	**United States**	0.97
Colombia	-0.38	**Japan**	1.44	**Papua N.G.**	--	**Uruguay**	0.29
Congo	--	**Jordan**	0.25	**Paraguay**	-1.57	**Uzbekistan**	--
Costa Rica	0.13	**Kazakhstan**	--	**Peru**	-0.95	**Venezuela**	-1.56
Croatia	--	**Kenya**	--	**Philippines**	-0.61	**Vietnam**	-0.75
Cuba	--	**Kuwait**	--	**Poland**	-0.19	**Zaire**	--
Czech Rep.	-0.59	**Kyrgyzstan**	--	**Portugal**	-0.45	**Zambia**	--
Denmark	0.75	**Laos**	--	**Romania**	-2.55	**Zimbabwe**	0.05
Dom. Rep.	-0.36	**Latvia**	-0.50	**Russia**	-1.60		
Ecuador	-0.71	**Lebanon**	--	**Rwanda**	--		

Variable: WEFSUB
Name: Subsidies for energy or materials usage (WEF survey)
Units: Survey Responses Ranging from 1 (Strongly Disagree) to 7 **Reference Year:** 2001
Source Michael E. Porter et al, The Global Competitveness Report 2001. Oxford: Oxford University Press, 2001.
Logic: Subsidies encourage wasteful consumption of energy and materials.
Methodology: Response to the statement "No government subsidies for energy or materials usage are present."

Mean	4.42	**Max**	5.94	**97.5 percentile cut-off value:**	5.91
Median	4.42	**Min**	2.6	**2.5 percentile cut-off value:**	2.74

Albania	--	**Egypt**	4.00	**Liberia**	--	**Saudi Arabia**	--
Algeria	--	**El Salvador**	4.50	**Libya**	--	**Senegal**	--
Angola	--	**Estonia**	4.43	**Lithuania**	4.47	**Sierra Leone**	--
Argentina	4.78	**Ethiopia**	--	**Macedonia**	--	**Slovakia**	3.40
Armenia	--	**Finland**	5.94	**Madagascar**	--	**Slovenia**	4.49
Australia	5.00	**France**	5.89	**Malawi**	--	**Somalia**	--
Austria	5.56	**Gabon**	--	**Malaysia**	3.74	**South Africa**	4.56
Azerbaijan	--	**Gambia**	--	**Mali**	--	**South Korea**	4.09
Bangladesh	3.79	**Germany**	5.28	**Mauritania**	--	**Spain**	4.74
Belgium	5.46	**Ghana**	--	**Mexico**	3.83	**Sri Lanka**	3.90
Benin	--	**Greece**	--	**Moldova**	--	**Sudan**	--
Bhutan	--	**Guatemala**	3.71	**Mongolia**	--	**Sweden**	5.38
Bolivia	5.31	**Guinea**	--	**Morocco**	--	**Switzerland**	5.26
Bosnia and H.	--	**Guinea-Bissau**	--	**Mozambique**	--	**Syria**	--
Botswana	--	**Haiti**	--	**Myanmar**	--	**Tajikistan**	--
Brazil	4.53	**Honduras**	3.80	**Namibia**	--	**Tanzania**	--
Bulgaria	4.31	**Hungary**	4.66	**Nepal**	--	**Thailand**	4.00
Burkina Faso	--	**Iceland**	5.00	**Netherlands**	5.50	**Togo**	--
Burundi	--	**India**	3.72	**New Zealand**	5.71	**Trin. and Tob.**	4.27
Byelarus	--	**Indonesia**	3.30	**Nicaragua**	4.11	**Tunisia**	--
Cambodia	--	**Iran**	--	**Niger**	--	**Turkey**	4.38
Cameroon	--	**Iraq**	--	**Nigeria**	2.86	**Turkmenistan**	--
Canada	5.14	**Ireland**	4.60	**North Korea**	--	**Uganda**	--
Central Af. R.	--	**Israel**	4.57	**Norway**	4.55	**Ukraine**	3.34
Chad	--	**Italy**	5.00	**Oman**	--	**United Ar. Em.**	--
Chile	5.55	**Ivory Coast**	--	**Pakistan**	--	**United King.**	4.94
China	4.19	**Jamaica**	4.56	**Panama**	4.84	**United States**	4.92
Colombia	4.38	**Japan**	4.77	**Papua N.G.**	--	**Uruguay**	4.70
Congo	--	**Jordan**	4.24	**Paraguay**	2.79	**Uzbekistan**	--
Costa Rica	4.41	**Kazakhstan**	--	**Peru**	4.88	**Venezuela**	3.77
Croatia	--	**Kenya**	--	**Philippines**	3.95	**Vietnam**	4.26
Cuba	--	**Kuwait**	--	**Poland**	4.31	**Zaire**	--
Czech Rep.	4.35	**Kyrgyzstan**	--	**Portugal**	4.37	**Zambia**	--
Denmark	4.96	**Laos**	--	**Romania**	2.60	**Zimbabwe**	4.06
Dom. Rep.	3.66	**Latvia**	4.29	**Russia**	3.73		
Ecuador	2.90	**Lebanon**	--	**Rwanda**	--		