

## 1.6 Environment and Infrastructure<sup>1</sup>

	Percentage of population with access to improved water <sup>2</sup>		Percentage of population with access to improved sanitation <sup>3</sup>		Industrial carbon dioxide emissions (tonnes per capita) <sup>5</sup>		Energy efficiency (GDP per unit of energy use) <sup>6</sup>		Forest area as a % of national surface area <sup>7</sup>	Biodiversity: land area protected (% of total land area) <sup>8</sup>
	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Afghanistan	..	13	..	12	..	0	..	..	2	0.3
Albania	..	97	..	91	1 123	1	3.5	6.4	36	3.8
Algeria	..	89	..	92	638	3	5.1	5.0	1	5.0
Angola	..	38	..	44	100	1	2.7	2.2	56	6.6
Antigua & Barbuda	..	91	..	95	..	5	..	..	20	..
Argentine Republic	94	..	82	..	2 107	4	5.8	6.8	13	6.6
Armenia	..	..	..	..	1 127	1	..	3.3	12	7.6
Azerbaijan	..	78	..	81	1 846	4	..	1.7	13	6.1
Bahamas	..	97	..	100	..	6	..	..	84	..
Bahrain	..	..	..	..	8 700	29	1.2	1.5	..	..
Bangladesh	94	97	41	48	94	0	9.1	9.7	10	0.8
Barbados	..	100	..	100	..	4	..	..	5	..
Belarus	..	100	..	..	2 676	6	..	1.9	45	6.3
Belize	..	92	..	50	..	3	..	..	59	..
Benin	..	63	20	23	66	0	2.1	2.9	24	11.4
Bermuda	..	..	..	..	..	7	..	..	..	..
Bhutan	..	62	..	70	..	0	..	..	64	..
Bolivia	71	83	52	70	403	1	4.5	4.3	49	13.4
Bosnia & Herzegovina	..	..	..	..	1 444	5	..	4.8	45	0.5
Botswana	93	95	60	66	..	2	..	..	22	18.5
Brazil	83	87	71	76	1 729	2	6.6	6.2	63	6.7
Brunei	..	..	..	..	6 436	..	4.6	..	84	..
Bulgaria	..	100	..	100	3 066	5	1.9	2.5	33	4.5
Burkina Faso	..	42	..	29	..	0	..	..	26	11.5
Burma	..	72	..	64	88	0	..	..	52	0.3

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Burundi	69	78	87	88	..	0	..	..	4	5.7
Cambodia	..	30	..	17	..	0	..	..	53	18.5
Cameroon	51	58	77	79	170	0	4.4	4.2	51	4.5
Cape Verde	..	74	..	71	..	0	..	..	21	..
Cayman Islands	..	..	..	..	..	8	..	..	50	..
Central African Republic	48	70	24	25	..	0	..	..	37	8.7
Chad	..	27	18	29	..	0	..	..	10	9.1
Chile	90	93	97	96	2 557	4	5.0	5.6	21	18.9
China	71	75	29	40	893	2	2.0	4.2	17	7.8
Colombia	94	91	83	86	818	1	7.0	7.9	48	10.2
Comoros	88	96	98	98	..	0	..	..	4	..
Congo (Dem Rep)	..	45	..	21	47	0	4.2	1.9	60	5.0
Congo	..	51	..	..	75	1	2.4	3.3	65	6.5
Costa Rica	..	95	..	93	1 557	1	8.5	8.3	39	23.0
Cote d'Ivoire	80	81	46	52	..	1	4.1	3.7	22	6.0
Croatia	..	..	..	..	2 683	4	..	4.7	32	7.5
Cuba	..	91	..	98	1 069	3	..	..	21	69.1
Cyprus	100	100	100	100	4 087	8	5.1	5.0	13	..
Czech Republic	..	..	..	..	4 977	12	2.7	3.2	34	16.1
Djibouti	..	100	..	91	..	1	..	..	0	..
Dominica	..	97	..	83	..	1	..	..	61	..
Dominican Republic	83	86	66	67	822	3	5.9	5.7	28	51.9
Ecuador	71	85	70	86	631	2	2.8	4.4	38	18.3
Egypt	94	97	87	98	1 046	2	4.3	4.5	0	9.7
El Salvador	66	77	73	82	595	1	6.6	6.2	6	0.4

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Equatorial Guinea	..	44	..	53	..	0	..	..	62	..
Eritrea	..	46	..	13	..	0	..	..	16	4.3
Estonia	..	..	..	..	3 764	12	..	2.8	49	11.8
Ethiopia	25	24	8	12	22	0	1.8	2.2	5	16.9
Fiji	..	47	..	43	..	1	..	..	45	..
French Polynesia	..	..	..	..	..	2	..	..	29	..
Gabon	..	86	..	53	814	3	4.3	4.2	85	0.7
Gambia	..	62	..	37	..	0	..	..	48	2.3
Georgia	..	79	..	100	718	1	..	4.2	43	2.3
Ghana	53	73	61	72	341	0	4.1	4.3	28	5.6
Grenada	..	95	..	97	..	2	..	..	15	..
Guatemala	76	92	70	81	358	1	6.1	5.7	26	20.0
Guinea	45	48	55	58	..	0	..	..	28	0.7
Guinea-Bissau	..	56	44	56	..	0	..	..	78	..
Guyana	..	94	..	87	..	2	..	..	86	..
Haiti	53	46	23	28	36	0	8.3	5.8	3	0.4
Honduras	83	88	61	75	508	1	4.3	4.6	48	6.4
Hong Kong	..	..	..	..	5 541	5	9.7	9.9	..	..
Hungary	99	99	99	99	2 998	5	3.7	4.7	20	7.0
India	68	84	16	28	365	1	3.6	4.4	22	5.2
Indonesia	71	78	47	55	404	1	3.9	3.7	58	20.6
Iran	..	92	..	83	1 570	5	3.3	3.0	4	4.8
Iraq	..	85	..	79	1 475	3	..	..	2	0.0
Israel	..	..	..	..	5 841	10	5.7	..	6	15.8
Jamaica	93	92	99	99	2 343	4	2.8	2.1	30	..

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Jordan	97	96	98	99	1 252	3	3.2	3.7	1	3.4
Kazakhstan	..	91	..	99	2 850	8	..	1.7	4	2.7
Kenya	45	57	80	87	117	0	1.9	1.8	30	8.0
Kiribati	..	48	..	48	..	0	..	..	38	..
Korea Dem Rep (North)	..	100	..	99	..	8	..	..	68	2.6
Korea, Rep (South)	..	92	..	63	5 288	9	3.9	3.5	63	6.9
Kuwait	..	..	..	..	10 251	22	..	2.2	0	1.5
Kyrgyzstan	..	77	..	100	1 351	1	..	3.2	5	12.5
Laos	..	37	..	30	..	0	..	..	54	3.6
Latvia	..	..	..	..	1 943	3	..	4.1	47	13.4
Lebanon	..	100	..	99	1 824	4	3.7	3.2	4	0.5
Lesotho	..	78	..	49	..	..	..	..	0	0.2
Liberia	..	..	..	..	..	0	..	..	36	1.7
Libya	71	72	97	97	4 020	11	..	..	0	0.1
Lithuania	..	..	..	..	1 851	3	..	3.7	31	10.3
Macedonia (FYR of)	..	..	..	..	..	6	..	..	36	7.1
Madagascar	44	47	36	42	..	0	..	..	20	4.3
Malawi	49	57	73	76	..	0	..	..	28	11.2
Malaysia	..	..	..	..	2 731	6	4.1	3.6	59	5.7
Maldives	..	100	..	56	..	2	..	..	3	..
Mali	55	65	70	69	..	0	..	..	11	3.7
Malta	100	100	100	100	3 972	7	4.9	8.3	0	..
Marshall Islands	..	..	..	..	..	..	..	..	..	..
Mauritania	37	37	30	33	..	1	..	..	0	1.7
Mauritius	100	100	100	99	..	2	..	..	8	7.8

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Mayotte	..	..	..	..	..	..	..	..	..	..
Mexico	80	88	70	74	1 643	4	4.7	5.3	29	10.2
Micronesia, Fed Sts	..	..	..	..	..	..	..	..	..	..
Moldova	..	92	..	99	785	2	..	1.7	10	1.4
Mongolia	..	60	..	30	..	3	..	..	7	11.5
Morocco	75	80	58	68	461	1	11.0	9.0	7	0.7
Mozambique	..	57	..	43	266	0	..	..	39	8.4
Namibia	72	77	33	41	..	1	..	9.3	10	13.6
Nepal	67	88	20	28	61	0	3.0	3.5	27	8.9
Netherlands Antilles	..	..	..	..	3 825	46	..	..	..	..
New Caledonia	..	..	..	..	..	8	..	..	20	..
Nicaragua	70	77	76	85	268	1	3.4	..	27	17.8
Niger	53	59	15	20	..	0	..	..	1	7.7
Nigeria	53	62	53	54	82	0	1.1	1.1	15	3.3
Oman	37	39	84	92	3 078	8	3.8	3.0	0	14.0
Pakistan	83	90	36	62	358	1	3.7	3.8	3	4.9
Panama	..	90	..	92	1 340	2	6.6	5.1	39	21.7
Papua New Guinea	40	42	82	82	..	0	..	..	68	2.3
Paraguay	63	78	93	94	833	1	5.9	6.1	59	3.5
Peru	74	80	60	71	692	1	7.7	9.4	51	6.1
Philippines	87	86	74	83	489	1	7.4	6.8	19	5.7
Poland	..	..	..	..	2 490	8	2.5	3.9	31	12.4
Qatar	..	..	..	..	15 308	70	..	..	0	..
Romania	..	58	..	53	1 620	4	2.3	3.4	28	4.7
Russian Federation	..	99	..	..	4 270	10	..	1.6	50	7.8

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Rwanda	..	41	..	8	..	0	..	..	12	6.2
Samoa (Western)	..	99	..	99	..	1	..	..	37	..
Sao Tome & Principe	..	..	..	..	..	1	..	..	28	..
Saudi Arabia	..	95	..	100	5 117	18	2.9	2.0	1	38.3
Senegal	72	78	57	70	130	0	4.1	4.3	32	11.6
Serbia & Montenegro	..	98	..	100	..	..	..	..	..	3.3
Seychelles	..	..	..	..	..	3	..	..	67	..
Sierra Leone	..	57	..	66	..	0	..	..	15	2.1
Singapore	100	100	100	100	7 178	15	3.1	2.9	3	4.9
Slovak Republic	..	100	..	100	4 360	7	2.5	3.1	42	22.8
Slovenia	100	100	..	..	5 535	7	..	4.5	55	6.0
Solomon Islands	..	71	..	34	..	0	..	..	91	..
Somalia	..	..	..	..	..	..	..	..	12	0.8
South Africa	86	86	86	87	3 793	7	3.4	3.5	7	5.5
Sri Lanka	68	77	85	94	285	1	6.4	7.3	30	13.5
St Kitts & Nevis	..	98	..	96	..	..	..	..	11	..
St Lucia	..	98	..	89	..	..	..	..	15	..
St Vincent & Grenadines	..	93	..	96	..	..	..	..	15	..
Sudan	67	75	58	62	67	0	2.3	3.3	26	5.2
Suriname	..	82	..	93	..	5	..	..	90	..
Swaziland	..	..	..	..	..	0	..	..	30	3.5
Syria	..	80	..	90	973	3	2.4	3.5	3	..
Tajikistan	..	60	..	90	2 151	1	..	1.7	3	4.2
Tanzania	38	68	84	90	58	0	1.2	1.2	44	29.8
Thailand	80	84	79	96	1 508	3	5.3	4.8	29	13.9

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
Togo	51	54	37	34	..	0	5.2	4.2	9	7.9
Tonga	..	100	..	..	..	1	..	..	6	..
Trinidad & Tobago	91	90	99	99	3 829	20	1.4	1.3	50	6.0
Tunisia	75	80	76	84	987	2	6.3	7.0	3	0.3
Turkey	79	82	87	90	1 391	3	5.1	4.9	13	1.6
Turkmenistan	..	..	..	..	1 231	7	..	1.3	8	4.2
Uganda	45	52	..	79	..	0	..	..	21	24.6
Ukraine	..	98	..	99	2 217	7	..	1.4	17	3.9
United Arab Emirates	..	..	..	..	10 787	21	..	..	4	0.0
Uruguay	..	98	..	94	1 918	2	8.9	9.7	7	0.3
Uzbekistan	..	85	..	89	1 634	5	..	0.7	5	2.0
Vanuatu	..	88	..	100	..	0	..	..	37	..
Venezuela	..	83	..	68	2 605	7	2.4	2.4	56	63.8
Vietnam	55	77	29	47	325	1	2.8	4.0	30	3.7
West Bank & Gaza	..	..	..	..	..	..	..	..	..	..
Yemen	..	69	32	38	109	0	3.0	3.8	1	..
Zambia	52	64	63	78	585	0	1.2	1.2	42	31.9
Zimbabwe	78	83	56	62	810	1	2.8	2.8	49	12.1

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	1990	2000	1990	2000	2001	2000	1990	2001	2000	2003
East Asia & Pacific	71	76	35	47	816	2	..	..	27	9.2
Europe & Central Asia	..	91	..	..	2 774	7	1.9	2.2	40	6.8
Latin America & Caribbean	82	86	72	77	1 493	3	5.4	5.7	47	11.2
Middle East & North Africa	..	88	..	85	1 409	4	3.8	3.4	2	11.3
South Asia	72	84	22	34	331	1	3.8	4.6	16	4.8
Sub-Saharan Africa	53	58	54	54	456	1	2.5	2.5	27	8.7
Low & middle income	71	79	39	52	938	2	2.8	3.7	31	8.9
Low income	66	76	30	43	317	1	3.1	3.6	27	8.4
Low income (excl China & India)	..	..	..	..	..	..	..	..	..	..
Middle income	76	82	47	61	1 447	3	2.7	3.7	33	9.1
Lower middle income	75	81	45	59	1 304	3	2.5	3.7	32	7.2
Upper middle income	..	..	..	..	2 505	6	3.7	4.0	34	17.3
LDCs	..	62	..	44	89	..	..	..	27	..
Developed Countries	..	..	..	..	8 421	12	4.3	4.7	26	19.5
World	74	81	45	56	2 159	4	3.5	4.2	30	10.7

2. The data on access to an improved water source measure the share of the population with ready access to water for domestic purposes. Access to drinking water from an improved source does not ensure that the water is safe or adequate. Reasonable access is defined as the availability of at least 20 litres of water a person per day within one kilometre of the dwelling. Data produced by WHO and obtained from the World Bank WDI Online.

3. The share of the population with at least adequate private or shared excreta disposal facilities. Data produced by WHO and obtained from the World Bank WDI Online.

4. Measures the production of power plants and combined heat and power plants less transmission, distribution and transformation losses, and own use by heat and power plants, divided by the population. Data produced by the International Energy Authority and obtained from the World Bank WDI Online.

5. CO<sub>2</sub> emissions are those stemming both from the burning of fossil fuels and the manufacture of cement. They include contributions to the carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring. Data produced by the Carbon Dioxide Information Analysis Centre in the US and obtained from the World Bank WDI Online.

6. GDP per unit of energy use is the US dollar estimate (converted using purchasing parity rates) of real GDP (at 1995 prices) per kilogram of oil equivalent of commercial energy use. Data produced by World Bank using underlying data from the International Energy Authority and obtained from the World Bank WDI Online.

7. Forest area is land under natural or planted stands of trees, whether productive or not. Data produced by the FAO and obtained from the World Bank WDI Online.

8. Nationally protected (totally or partially) areas of at least 1000 hectares that are designated as national parks, natural monuments, nature reserves or wildlife sanctuaries, protected landscapes and seascapes, or scientific reserves with limited public access. The data do not include sites protected under local or provincial law.

Data produced by the UN Environment Programme and the World Conservation Monitoring Centre and obtained from the World Bank's 2004 World Development Indicators book.