

**Indicator:** Access to improved sanitation**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** The percentage of population with access to the facilities that can provide them with sanitation. Access to the above is a fundamental need and a human right vital for the dignity and health of all people.**Sources:** World Health Organization (<http://www.who.int/whosis/en>)  
World Bank (2007)**Period:** 1990-2005**Units:** percent of population**Most recent data**

Albania	97.0000	Ecuador	84.0000	Lebanon	98.0000	Rwanda	23.0000
Algeria	94.0000	Egypt	66.0000	Lithuania	100.0000*	Saudi Arabia	99.0000*
Angola	50.0000	El Salvador	86.0000	Macedonia, FYR	89.0000	Senegal	28.0000
Argentina	91.0000	Estonia	95.0000	Madagascar	12.0000	Sierra Leone	11.0000
Armenia	91.0000	Ethiopia	11.0000	Malawi	60.0000	Slovakia	100.0000
Australia	100.0000	Finland	100.0000	Malaysia	94.0000	Slovenia	100.0000*
Austria	100.0000	France	100.0000*	Mali	45.0000	South Africa	57.0000
Azerbaijan	80.0000	Gabon	36.0000	Mauritania	24.0000	South Korea	100.0000*
Bangladesh	36.0000	Gambia	52.0000	Mexico	81.0000	Spain	100.0000
Belarus	93.0000	Georgia	93.0000	Moldova	79.0000	Sri Lanka	86.0000
Belgium	100.0000*	Germany	100.0000	Mongolia	50.0000	Sudan	35.0000
Benin	30.0000	Ghana	10.0000	Morocco	72.0000	Sweden	100.0000
Bolivia	43.0000	Greece	98.0000	Mozambique	31.0000	Switzerland	100.0000
Botswana	47.0000	Guatemala	84.0000	Namibia	35.0000	Syria	92.0000
Brazil	77.0000	Guinea	19.0000	Nepal	27.0000	Tajikistan	92.0000
Bulgaria	99.0000	Guinea Bis.	33.0000	Netherlands	100.0000	Tanzania	33.0000
Burkina Faso	13.0000	Hondura	66.0000	New Zealand	100.0000*	Thailand	96.0000
Burundi	41.0000	Hungary	100.0000	Nicaragua	48.0000	Togo	12.0000
C. African R.	31.0000	India	28.0000	Niger	7.0000	Tunisia	85.0000
Cambodia	28.0000	Indonesia	52.0000	Nigeria	30.0000	Turkey	88.0000
Cameroon	51.0000	Iran	83.0000	Norway	100.0000*	UAE	97.0000
Canada	100.0000	Ireland	100.0000*	Oman	87.0000	Uganda	33.0000
Chad	9.0000	Israel	100.0000*	Pakistan	58.0000	UK	100.0000*
Chile	94.0000	Italy	100.0000*	Panama	74.0000	Ukraine	93.0000
China	65.0000	Japan	100.0000	Papua N.G.	45.0000	Uruguay	100.0000
Colombia	78.0000	Jordan	85.0000	Paraguay	70.0000	USA	100.0000
Congo	20.0000	Kazakhstan	97.0000	Peru	72.0000	Uzbekistan	96.0000
Cote d'Ivoire	24.0000	Kenya	42.0000	Philippines	78.0000	Venezuela	83.0000
Croatia	99.0000	Kuwait	100.0000*	Poland	100.0000*	Vietnam	65.0000
Czech Rep.	99.0000	Kyrgyzstan	93.0000	Portugal	99.0000	Yemen	46.0000
D.R. Congo	31.0000	Laos	48.0000	Romania	72.0000	Zambia	52.0000
Denmark	100.0000	Latvia	78.0000	Russia	87.0000	Zimbabwe	46.0000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	69.7031	Min	7.0000	Std. Deviation	30.3225	5 Percentile	12.3500
Missing	0	Median	82.0000	Max	100.0000			95 Percentile	100.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=7.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

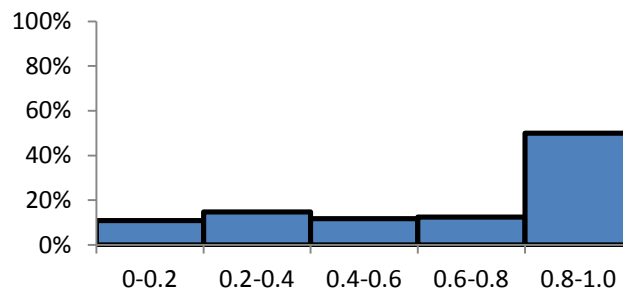
## Smoothed data

Albania	0.9232	Ecuador	0.8280	Lebanon	0.9785	Rwanda	0.1720
Algeria	0.9355	Egypt	0.6344	Lithuania	1.0000*	Saudi Arabia	0.9892*
Angola	0.4624	El Salvador	0.8495	Macedonia, FYR	0.8817	Senegal	0.2258
Argentina	0.9032	Estonia	0.9462	Madagascar	0.0538	Sierra Leone	0.0430
Armenia	0.9032	Ethiopia	0.0430	Malawi	0.5699	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.9355	Slovenia	1.0000*
Austria	1.0000	France	1.0000*	Mali	0.4086	South Africa	0.5376
Azerbaijan	0.7849	Gabon	0.3118	Mauritania	0.1828	South Korea	1.0000*
Bangladesh	0.3118	Gambia	0.4749	Mexico	0.7957	Spain	1.0000
Belarus	0.9247	Georgia	0.9247	Moldova	0.7742	Sri Lanka	0.8495
Belgium	1.0000*	Germany	1.0000	Mongolia	0.4624	Sudan	0.3011
Benin	0.2473	Ghana	0.0323	Morocco	0.6989	Sweden	1.0000
Bolivia	0.3871	Greece	0.9785	Mozambique	0.2581	Switzerland	1.0000
Botswana	0.4301	Guatemala	0.8280	Namibia	0.3011	Syria	0.9138
Brazil	0.7527	Guinea	0.1290	Nepal	0.2151	Tajikistan	0.9140
Bulgaria	0.9892	Guinea Bis.	0.2634	Netherlands	1.0000	Tanzania	0.2796
Burkina Faso	0.0645	Hondura	0.6344	New Zealand	1.0000*	Thailand	0.9570
Burundi	0.3656	Hungary	1.0000	Nicaragua	0.4409	Togo	0.0538
C. African R.	0.2581	India	0.2258	Niger	0.0000	Tunisia	0.8387
Cambodia	0.1514	Indonesia	0.4839	Nigeria	0.2473	Turkey	0.8710
Cameroon	0.4731	Iran	0.8172	Norway	1.0000*	UAE	0.9677
Canada	1.0000	Ireland	1.0000*	Oman	0.8602	Uganda	0.2796
Chad	0.0215	Israel	1.0000*	Pakistan	0.5484	UK	1.0000*
Chile	0.9355	Italy	1.0000*	Panama	0.7204	Ukraine	0.9247
China	0.6237	Japan	1.0000	Papua N.G.	0.4086	Uruguay	1.0000
Colombia	0.7634	Jordan	0.8647	Paraguay	0.6774	USA	1.0000
Congo	0.1398	Kazakhstan	0.9677	Peru	0.6989	Uzbekistan	0.9570
Cote d'Ivoire	0.1828	Kenya	0.3763	Philippines	0.7634	Venezuela	0.8172
Croatia	0.9892	Kuwait	1.0000*	Poland	1.0000*	Vietnam	0.6237
Czech Rep.	0.9892	Kyrgyzstan	0.9247	Portugal	0.9892	Yemen	0.4194
D.R. Congo	0.2581	Laos	0.2679	Romania	0.7025	Zambia	0.4839
Denmark	1.0000	Latvia	0.7634	Russia	0.8602	Zimbabwe	0.4194

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6720	Min	0.0000	Std. Deviation	0.3283	5 Percentile	0.0575
Missing	0	Median	0.8065	Max	1.0000			95 Percentile	1.0000



**Indicator:** Access to improved water sources**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** The percentage of population with access to the facilities that can provide them with safe water. Access to the above is a fundamental need and a human right vital for the dignity and health of all people.**Sources:** World Health Organization (<http://www.who.int/whosis/en>); World Bank (2007)**Period:** 1990-2005**Units:** percent of population**Most recent data**

Albania	97.0000	Ecuador	95.0000	Lebanon	100.0000	Rwanda	65.0000
Algeria	85.0000	Egypt	98.0000	Lithuania	100.0000	Saudi Arabia	89.0000
Angola	51.0000	El Salvador	84.0000	Macedonia, FYR	100.0000	Senegal	77.0000
Argentina	96.0000	Estonia	100.0000	Madagascar	47.0000	Sierra Leone	60.5000
Armenia	98.0000	Ethiopia	42.0000	Malawi	76.0000	Slovakia	100.0000
Australia	100.0000	Finland	100.0000	Malaysia	99.0000	Slovenia	100.0000
Austria	100.0000	France	100.0000	Mali	60.0000	South Africa	93.0000
Azerbaijan	78.0000	Gabon	87.0000	Mauritania	60.0000	South Korea	92.0000
Bangladesh	80.0000	Gambia	86.0000	Mexico	95.0000	Spain	100.0000
Belarus	100.0000	Georgia	99.0000	Moldova	90.0000	Sri Lanka	82.0000
Belgium	100.0000	Germany	100.0000	Mongolia	72.0000	Sudan	70.0000
Benin	65.0000	Ghana	80.0000	Morocco	83.0000	Sweden	100.0000
Bolivia	86.0000	Greece	100.0000	Mozambique	42.0000	Switzerland	100.0000
Botswana	96.0000	Guatemala	96.0000	Namibia	93.0000	Syria	89.0000
Brazil	91.0000	Guinea	70.0000	Nepal	89.0000	Tajikistan	67.0000
Bulgaria	99.0000	Guinea Bis.	57.0000	Netherlands	100.0000	Tanzania	77.0000
Burkina Faso	72.0000	Hondura	84.0000	New Zealand	97.0000	Thailand	98.0000
Burundi	71.0000	Hungary	100.0000	Nicaragua	79.0000	Togo	59.0000
C. African R.	66.0000	India	89.0000	Niger	42.0000	Tunisia	94.0000
Cambodia	65.0000	Indonesia	80.0000	Nigeria	47.0000	Turkey	97.0000
Cameroon	70.0000	Iran	94.0000	Norway	100.0000	UAE	100.0000
Canada	100.0000	Ireland	100.0000	Oman	82.0000	Uganda	64.0000
Chad	48.0000	Israel	100.0000	Pakistan	89.0000	UK	100.0000
Chile	95.0000	Italy	100.0000	Panama	92.0000	Ukraine	97.0000
China	88.0000	Japan	100.0000	Papua N.G.	40.0000	Uruguay	100.0000
Colombia	93.0000	Jordan	98.0000	Paraguay	77.0000	USA	99.0000
Congo	71.0000	Kazakhstan	96.0000	Peru	84.0000	Uzbekistan	88.0000
Cote d'Ivoire	81.0000	Kenya	57.0000	Philippines	93.0000	Venezuela	89.0000
Croatia	99.0000	Kuwait	100.0000*	Poland	100.0000	Vietnam	92.0000
Czech Rep.	100.0000	Kyrgyzstan	89.0000	Portugal	99.0000	Yemen	66.0000
D.R. Congo	46.0000	Laos	46.0000	Romania	88.0000	Zambia	58.0000
Denmark	100.0000	Latvia	99.0000	Russia	97.0000	Zimbabwe	81.0000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	84.9102	Min	40.0000	Std. Deviation	17.0581	5 Percentile	47.0000
Missing	0	Median	91.5000	Max	100.0000			95 Percentile	100.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=40.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

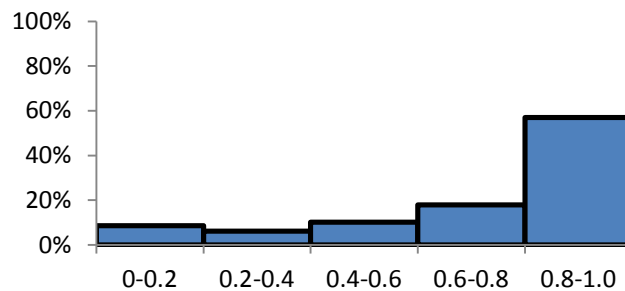
## Smoothed data

Albania	0.9500	Ecuador	0.9167	Lebanon	1.0000	Rwanda	0.4167
Algeria	0.7500	Egypt	0.9667	Lithuania	1.0000	Saudi Arabia	0.8167
Angola	0.1667	El Salvador	0.7333	Macedonia, FYR	1.0000	Senegal	0.6167
Argentina	0.9333	Estonia	1.0000	Madagascar	0.1167	Sierra Leone	0.3417
Armenia	0.9667	Ethiopia	0.0333	Malawi	0.6000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.9833	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.3333	South Africa	0.8833
Azerbaijan	0.6333	Gabon	0.7833	Mauritania	0.3333	South Korea	0.8667
Bangladesh	0.6667	Gambia	0.7667	Mexico	0.9167	Spain	1.0000
Belarus	1.0000	Georgia	0.9833	Moldova	0.8333	Sri Lanka	0.7000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5333	Sudan	0.5000
Benin	0.4167	Ghana	0.6667	Morocco	0.7167	Sweden	1.0000
Bolivia	0.7667	Greece	1.0000	Mozambique	0.0332	Switzerland	1.0000
Botswana	0.9333	Guatemala	0.9333	Namibia	0.8833	Syria	0.8167
Brazil	0.8500	Guinea	0.5000	Nepal	0.8167	Tajikistan	0.4222
Bulgaria	0.9833	Guinea Bis.	0.2833	Netherlands	1.0000	Tanzania	0.6167
Burkina Faso	0.5333	Hondura	0.7333	New Zealand	0.9500	Thailand	0.9667
Burundi	0.5167	Hungary	1.0000	Nicaragua	0.6500	Togo	0.3167
C. African R.	0.4333	India	0.8167	Niger	0.0333	Tunisia	0.9000
Cambodia	0.1583	Indonesia	0.6667	Nigeria	0.1167	Turkey	0.9500
Cameroon	0.5000	Iran	0.9000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	0.7000	Uganda	0.4000
Chad	0.1333	Israel	1.0000	Pakistan	0.8167	UK	1.0000
Chile	0.9167	Italy	1.0000	Panama	0.8667	Ukraine	0.9500
China	0.8000	Japan	1.0000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.8833	Jordan	0.9667	Paraguay	0.6167	USA	0.9833
Congo	0.5167	Kazakhstan	0.9333	Peru	0.7333	Uzbekistan	0.8000
Cote d'Ivoire	0.6833	Kenya	0.2833	Philippines	0.8833	Venezuela	0.8167
Croatia	0.9833	Kuwait	1.0000*	Poland	1.0000	Vietnam	0.8667
Czech Rep.	1.0000	Kyrgyzstan	0.8167	Portugal	0.9833	Yemen	0.4333
D.R. Congo	0.1000	Laos	0.1000	Romania	0.8000	Zambia	0.3000
Denmark	1.0000	Latvia	0.9833	Russia	0.9500	Zimbabwe	0.6833

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7461	Min	0.0000	Std. Deviation	0.2881	5 Percentile	0.1167
Missing	0	Median	0.8583	Max	1.0000			95 Percentile	1.0000



**Indicator: BOD emissions****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** Emissions of organic water pollutants are measured by biochemical oxygen demand, which is the amount of oxygen that bacteria in water will consume to break down waste. This is a standard water treatment test for the presence of organic pollutants.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** BOD, biological oxygen demand in kg per capita per day**Most recent data**

Albania	2.1125	Ecuador	2.8536	Lebanon	-	Rwanda	-
Algeria	1.5632	Egypt	3.1523	Lithuania	1.8622	Saudi Arabia	1.4418
Angola	0.1272	El Salvador	3.7713	Macedonia, FYR	11.9343	Senegal	1.9272
Argentina	5.4434	Estonia	-	Madagascar	-	Sierra Leone	1.1118
Armenia	3.2166	Ethiopia	0.3338	Malawi	1.8332	Slovakia	1.7538
Australia	4.9438	Finland	11.9789	Malaysia	6.8900	Slovenia	18.8243
Austria	1.9877	France	5.1537	Mali	-	South Africa	5.5578
Azerbaijan	5.9267	Gabon	1.6858	Mauritania	-	South Korea	6.1868
Bangladesh	1.7155	Gambia	0.7992	Mexico	1.6935	Spain	8.7449
Belarus	-	Georgia	-	Moldova	7.8930	Sri Lanka	4.6235
Belgium	11.2952	Germany	9.9528	Mongolia	3.4897	Sudan	-
Benin	-	Ghana	0.8152	Morocco	3.2973	Sweden	1.5828
Bolivia	1.5126	Greece	5.3387	Mozambique	0.2956	Switzerland	17.4939
Botswana	2.7835	Guatemala	1.8529	Namibia	4.5899	Syria	0.9466
Brazil	3.9246	Guinea	-	Nepal	1.1945	Tajikistan	-
Bulgaria	13.7316	Guinea Bis.	-	Netherlands	7.6243	Tanzania	1.1974
Burkina Faso	0.2437	Hondura	6.5894	New Zealand	13.4577	Thailand	6.1730
Burundi	0.2837	Hungary	13.7557	Nicaragua	-	Togo	-
C. African R.	0.2643	India	1.7483	Niger	-	Tunisia	4.9898
Cambodia	1.1992	Indonesia	3.3658	Nigeria	0.5313	Turkey	2.8589
Cameroon	0.7588	Iran	1.7850	Norway	11.8718	UAE	-
Canada	9.7592	Ireland	1.2388	Oman	2.2829	Uganda	-
Chad	-	Israel	9.5132	Pakistan	0.8393	UK	1.2937
Chile	4.8995	Italy	6.2361	Panama	4.2815	Ukraine	1.3514
China	5.6558	Japan	11.1795	Papua N.G.	-	Uruguay	7.5632
Colombia	2.5521	Jordan	3.6200	Paraguay	0.7486	USA	9.6335
Congo	-	Kazakhstan	-	Peru	2.2129	Uzbekistan	-
Cote d'Ivoire	0.7954	Kenya	1.6894	Philippines	2.8716	Venezuela	4.8969
Croatia	1.6195	Kuwait	5.1556	Poland	1.6829	Vietnam	-
Czech Rep.	15.3923	Kyrgyzstan	4.5595	Portugal	14.9428	Yemen	0.4953
D.R. Congo	-	Laos	-	Romania	14.6570	Zambia	1.2265
Denmark	15.7689	Latvia	1.7830	Russia	1.1147	Zimbabwe	2.6734

**Descriptive Statistics - based on most recent data**

Available	102	Mean	4.6865	Min	0.1272	Std. Deviation	4.4961	5 Percentile	0.3418
Missing	26	Median	2.8652	Max	18.8243			95 Percentile	14.6119

## Normalization

Type *SB (smaller is better)* Parameters *U=7.3671* *T=18.8243*  
 Comments *T=average of EU-14* *U=max*

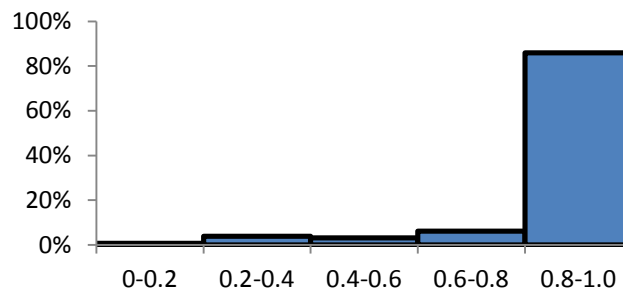
## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000**	Rwanda	1.0000**
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.6014	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000**	Madagascar	1.0000**	Sierra Leone	1.0000
Armenia	0.9905	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	0.9719	Finland	0.5975	Malaysia	0.9928	Slovenia	0.2319
Austria	0.9639	France	1.0000	Mali	1.0000**	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000**	South Korea	0.9999
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	0.8807
Belarus	0.7015**	Georgia	0.9905**	Moldova	0.9532	Sri Lanka	1.0000
Belgium	0.6572	Germany	0.8070	Mongolia	1.0000	Sudan	1.0000**
Benin	1.0000**	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	0.1161
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000**	Nepal	1.0000	Tajikistan	1.0000**
Bulgaria	0.4767	Guinea Bis.	1.0000**	Netherlands	0.9769	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	0.4663	Thailand	1.0000
Burundi	1.0000	Hungary	0.4424	Nicaragua	1.0000**	Togo	1.0000**
C. African R.	1.0000	India	1.0000	Niger	1.0000**	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	0.6068	UAE	1.0000**
Canada	0.7911	Ireland	1.0000	Oman	1.0000	Uganda	1.0000**
Chad	1.0000**	Israel	0.7904	Pakistan	1.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	1.0000	Japan	0.6673	Papua N.G.	1.0000**	Uruguay	0.9716
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	0.8025
Congo	1.0000**	Kazakhstan	0.9905**	Peru	1.0000	Uzbekistan	1.0000**
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	0.7555	Vietnam	1.0000**
Czech Rep.	0.2995	Kyrgyzstan	1.0000	Portugal	0.3644	Yemen	1.0000
D.R. Congo	1.0000**	Laos	1.0000**	Romania	0.3637	Zambia	1.0000
Denmark	0.2667	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9257	Min	0.1161	Std. Deviation	0.1863	5 Percentile	0.4508
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Central government debt

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** State

**Explanation:** Debt is the entire stock of direct government fixed-term contractual obligations to others outstanding on a particular date. It includes domestic and foreign liabilities such as currency and money deposits, securities other than shares, and loans. It is the gross amount of government liabilities reduced by the amount of equity and financial derivatives held by the government. Because debt is a stock rather than a flow, it is measured as of a given date, usually the last day of the fiscal year.

**Sources:** World Bank (2007); Eurostat ([http://epp.eurostat.ec.europa.eu/portal/page/portal/government\\_finance\\_statistics/data/database](http://epp.eurostat.ec.europa.eu/portal/page/portal/government_finance_statistics/data/database)); African Economic Outlook ([http://www.africaneconomicoutlook.org/fileadmin/uploads/aeo/Spreadsheet s/ External%20Debt%20Indicators.xls](http://www.africaneconomicoutlook.org/fileadmin/uploads/aeo/Spreadsheet%20External%20Debt%20Indicators.xls))

**Period:** 1990-2005

**Units:** percent of GDP

### Most recent data

Albania	51.8627	Ecuador	30.4000	Lebanon	186.6000	Rwanda	48.4290
Algeria	47.0909	Egypt	37.3908	Lithuania	21.3830	Saudi Arabia	23.3000
Angola	14.7000	El Salvador	48.6780	Macedonia, FYR	30.8000	Senegal	73.6460
Argentina	59.0000	Estonia	9.6145	Madagascar	483.8408	Sierra Leone	247.3785
Armenia	-	Ethiopia	54.5000	Malawi	50.6000	Slovakia	37.2346
Australia	21.3512	Finland	45.5622	Malaysia	41.6000	Slovenia	22.7942
Austria	66.6124	France	71.8784	Mali	22.4000*	South Africa	45.2697
Azerbaijan	5.4000	Gabon	51.3000	Mauritania	95.5000*	South Korea	9.5788
Bangladesh	36.1605	Gambia	48.7000*	Mexico	23.2178	Spain	44.4269
Belarus	12.3367	Georgia	35.1644	Moldova	33.2164	Sri Lanka	94.1817
Belgium	88.6515	Germany	44.1852	Mongolia	119.8280	Sudan	8.6587
Benin	0.0000	Ghana	59.6000	Morocco	63.2274	Sweden	54.2574
Bolivia	46.2000	Greece	98.0000	Mozambique	22.2000	Switzerland	28.5518
Botswana	11.2599	Guatemala	18.2819	Namibia	21.8000	Syria	37.8000
Brazil	40.5000	Guinea	83.8000*	Nepal	57.1856	Tajikistan	79.8037
Bulgaria	29.2000	Guinea Bis.	-	Netherlands	55.5424	Tanzania	19.7000
Burkina Faso	19.8000*	Hondura	29.3000	New Zealand	46.3638	Thailand	27.2864
Burundi	162.5614	Hungary	67.2440	Nicaragua	56.2000	Togo	0.0000
C. African R.	0.0000	India	65.3499	Niger	56.2000	Tunisia	58.9990
Cambodia	0.0000	Indonesia	29.0493	Nigeria	14.5000	Turkey	52.3000
Cameroon	107.8782	Iran	23.2000	Norway	36.9732	UAE	22.9000
Canada	48.7181	Ireland	29.6202	Oman	19.8670	Uganda	44.8596
Chad	20.9000	Israel	82.7000	Pakistan	74.6703	UK	48.7638
Chile	3.6000	Italy	105.8000	Panama	53.6000	Ukraine	45.2875
China	11.6090	Japan	164.0000	Papua N.G.	69.7255	Uruguay	78.6676
Colombia	56.7333	Jordan	89.1303	Paraguay	27.1000	USA	47.1703
Congo	0.2098	Kazakhstan	7.0552	Peru	55.4924	Uzbekistan	18.8000
Cote d'Ivoire	107.8632	Kenya	52.6441	Philippines	69.9159	Venezuela	19.3000
Croatia	45.6000	Kuwait	7.8000	Poland	41.5109	Vietnam	42.8000
Czech Rep.	23.0582	Kyrgyzstan	99.3310	Portugal	73.7026	Yemen	33.7000
D.R. Congo	152.1870	Laos	0.0000	Romania	15.8000	Zambia	5.8000*
Denmark	42.1802	Latvia	13.6581	Russia	41.3527	Zimbabwe	58.0979

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	126	Mean	51.5700	Min	0.0000	Std. Deviation	54.8988	5 Percentile	4.0500
Missing	2	Median	44.3061	Max	483.8408			95 Percentile	116.8405

## Normalization

Type SB (smaller is better)

Parameters U=62.0845

T=164.0000

Comments T=average of EU-14

U=max (excluding 2.5% outliers)

## Smoothed data

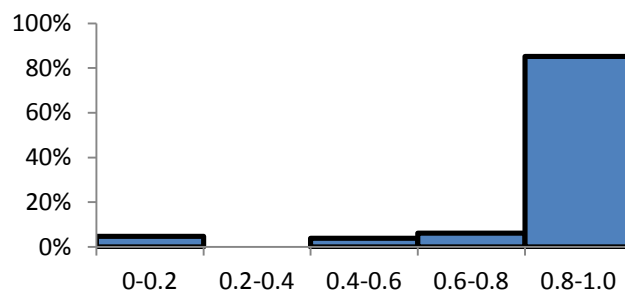
Albania	1.0000	Ecuador	1.0000	Lebanon	0.0000	Rwanda	1.0000
Algeria	0.9935	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	0.8866
Argentina	1.0000	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0138
Armenia	1.0000**	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	0.9574	France	0.9039	Mali	1.0000*	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	0.6721*	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000*	Mexico	1.0000	Spain	1.0000
Belarus	0.9876	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.6851
Belgium	0.7393	Germany	1.0000	Mongolia	0.4334	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	0.9888	Sweden	1.0000
Bolivia	1.0000	Greece	0.6476	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	0.7869*	Nepal	0.9722	Tajikistan	0.8261
Bulgaria	1.0000	Guinea Bis.	0.5507**	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000*	Hondura	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.0141	Hungary	0.9494	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.9852	Niger	1.0000	Tunisia	0.9992
Cambodia	1.0000	Indonesia	0.9921	Nigeria	1.0000	Turkey	1.0000
Cameroon	0.5507	Iran	1.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	0.7977	Pakistan	0.8516	UK	1.0000
Chile	1.0000	Italy	0.5711	Panama	1.0000	Ukraine	1.0000
China	1.0000	Japan	0.0000	Papua N.G.	0.9356	Uruguay	0.8373
Colombia	1.0000	Jordan	0.7349	Paraguay	1.0000	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	0.9992	Uzbekistan	1.0000
Cote d'Ivoire	0.5508	Kenya	1.0000	Philippines	0.9250	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	0.6345	Portugal	0.8860	Yemen	1.0000
D.R. Congo	0.0847	Laos	1.0000	Romania	1.0000	Zambia	1.0000*
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.9815

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9088	Min	0.0000	Std. Deviation	0.2288	5 Percentile	0.4745
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





**Indicator:** Civil liberties**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State**Explanation:** The Freedom House Annual Survey employs a Civil Liberties checklist to help monitor the progress and decline of human rights worldwide. As previously, each country is rated on a seven-category scale, 1 representing the most free and 7 the least free.**Sources:** World Audit (<http://www.worldaudit.org/civillibs.htm>)**Period:** 1990-2005**Units:** seven-category scale (1 representing the most free and 7 the least free country)**Most recent data**

Albania	3.0000	Ecuador	3.0000	Lebanon	4.0000	Rwanda	5.0000
Algeria	5.0000	Egypt	5.0000	Lithuania	1.0000	Saudi Arabia	6.0000
Angola	5.0000	El Salvador	3.0000	Macedonia, FYR	3.0000	Senegal	3.0000
Argentina	2.0000	Estonia	1.0000	Madagascar	3.0000	Sierra Leone	3.0000
Armenia	4.0000	Ethiopia	5.0000	Malawi	5.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	5.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	2.0000	South Africa	2.0000
Azerbaijan	5.0000	Gabon	4.0000	Mauritania	4.0000	South Korea	2.0000
Bangladesh	4.0000	Gambia	4.0000	Mexico	2.0000	Spain	1.0000
Belarus	6.0000	Georgia	3.0000	Moldova	4.0000	Sri Lanka	3.0000
Belgium	1.0000	Germany	1.0000	Mongolia	2.0000	Sudan	7.0000
Benin	2.0000	Ghana	2.0000	Morocco	4.0000	Sweden	1.0000
Bolivia	3.0000	Greece	2.0000	Mozambique	4.0000	Switzerland	1.0000
Botswana	2.0000	Guatemala	4.0000	Namibia	2.0000	Syria	7.0000
Brazil	2.0000	Guinea	5.0000	Nepal	5.0000	Tajikistan	5.0000
Bulgaria	2.0000	Guinea Bis.	4.0000	Netherlands	1.0000	Tanzania	3.0000
Burkina Faso	3.0000	Hondura	3.0000	New Zealand	1.0000	Thailand	3.0000
Burundi	5.0000	Hungary	1.0000	Nicaragua	3.0000	Togo	5.0000
C. African R.	4.0000	India	3.0000	Niger	3.0000	Tunisia	5.0000
Cambodia	5.0000	Indonesia	3.0000	Nigeria	4.0000	Turkey	3.0000
Cameroon	6.0000	Iran	6.0000	Norway	1.0000	UAE	6.0000
Canada	1.0000	Ireland	1.0000	Oman	5.0000	Uganda	4.0000
Chad	5.0000	Israel	2.0000	Pakistan	5.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	2.0000	Ukraine	2.0000
China	6.0000	Japan	2.0000	Papua N.G.	3.0000	Uruguay	1.0000
Colombia	3.0000	Jordan	4.0000	Paraguay	3.0000	USA	1.0000
Congo	5.0000	Kazakhstan	5.0000	Peru	3.0000	Uzbekistan	7.0000
Cote d'Ivoire	6.0000	Kenya	3.0000	Philippines	3.0000	Venezuela	4.0000
Croatia	2.0000	Kuwait	5.0000	Poland	1.0000	Vietnam	5.0000
Czech Rep.	1.0000	Kyrgyzstan	4.0000	Portugal	1.0000	Yemen	5.0000
D.R. Congo	6.0000	Laos	6.0000	Romania	2.0000	Zambia	4.0000
Denmark	1.0000	Latvia	1.0000	Russia	5.0000	Zimbabwe	6.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.2422	Min	1.0000	Std. Deviation	1.7286	5 Percentile	1.0000
Missing	0	Median	3.0000	Max	7.0000			95 Percentile	6.0000

## Normalization

Type *SB (smaller is better)*

Parameters

$U=1.0000$

$T=3.0000$

Comments  $T=\text{minimum possible}$

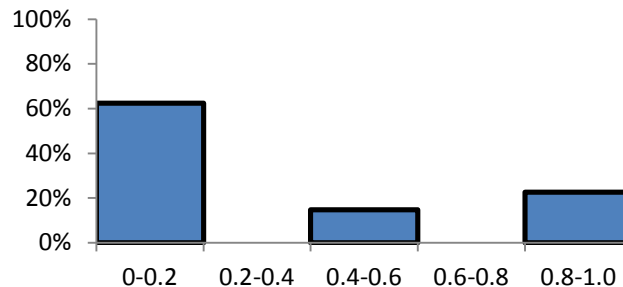
$U$  (most developing countries range over [3,7], 3 being their best value)

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	0.5000	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.5000	South Africa	0.5000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.5000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.5000	Spain	1.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5000	Sudan	0.0000
Benin	0.5000	Ghana	0.5000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	0.5000	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.5000	Guatemala	0.0000	Namibia	0.5000	Syria	0.0000
Brazil	0.5000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.5000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	1.0000	Thailand	0.0000
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.5000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	0.5000	Ukraine	0.5000
China	0.0000	Japan	0.5000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.5000	Kuwait	0.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.5000	Zambia	0.0000
Denmark	1.0000	Latvia	1.0000	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3008	Min	0.0000	Std. Deviation	0.4178	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Corruption Perception Index

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Policy

**Tertiary indicator:** State

**Explanation:** International Transparency, the coalition against corruption, gathers data for the last two years for all countries to compute the Corruption Perceptions Index (CPI). CPI (Transparency International 2007) ranges from 1 to 10 or from the most to the least corrupt countries and it expresses a degree of misuse of power by public officials and politicians for private gain such as bribes, favoritism, embezzlement of money, etc.

**Sources:** Transparency International  
([http://www.transparency.org/policy\\_research/surveys\\_indices/cpi/2007](http://www.transparency.org/policy_research/surveys_indices/cpi/2007))

**Period:** 1990-2005

**Units:** 10point scale (1 representing the most corrupt and 10 the least corrupt country)

### Most recent data

Albania	2.4000	Ecuador	2.5000	Lebanon	3.1000	Rwanda	3.1000
Algeria	2.8000	Egypt	3.4000	Lithuania	4.8000	Saudi Arabia	3.4000
Angola	2.0000	El Salvador	4.2000	Macedonia, FYR	2.7000	Senegal	3.2000
Argentina	2.8000	Estonia	6.4000	Madagascar	2.8000	Sierra Leone	2.4000
Armenia	2.9000	Ethiopia	2.2000	Malawi	2.8000	Slovakia	4.3000
Australia	8.8000	Finland	9.6000	Malaysia	5.1000	Slovenia	6.1000
Austria	8.7000	France	7.5000	Mali	2.9000	South Africa	4.5000
Azerbaijan	2.2000	Gabon	2.9000	Mauritania	3.1000	South Korea	5.0000
Bangladesh	1.7000	Gambia	2.7000	Mexico	3.5000	Spain	7.0000
Belarus	2.6000	Georgia	2.3000	Moldova	2.9000	Sri Lanka	3.2000
Belgium	7.4000	Germany	8.2000	Mongolia	3.0000	Sudan	2.1000
Benin	2.9000	Ghana	3.5000	Morocco	3.2000	Sweden	9.2000
Bolivia	2.5000	Greece	4.3000	Mozambique	2.8000	Switzerland	9.1000
Botswana	5.9000	Guatemala	2.5000	Namibia	4.3000	Syria	3.4000
Brazil	3.7000	Guinea	1.9000	Nepal	2.5000	Tajikistan	2.1000
Bulgaria	4.0000	Guinea Bis.	1.9000	Netherlands	8.6000	Tanzania	2.9000
Burkina Faso	3.4000	Hondura	2.6000	New Zealand	9.6000	Thailand	3.8000
Burundi	2.3000	Hungary	5.0000	Nicaragua	2.6000	Togo	2.4000
C. African R.	3.0000	India	2.9000	Niger	2.4000	Tunisia	4.9000
Cambodia	2.3000	Indonesia	2.2000	Nigeria	1.9000	Turkey	3.5000
Cameroon	2.2000	Iran	2.9000	Norway	8.9000	UAE	6.2000
Canada	8.4000	Ireland	7.4000	Oman	6.3000	Uganda	2.5000
Chad	1.7000	Israel	6.3000	Pakistan	2.1000	UK	8.6000
Chile	7.3000	Italy	5.0000	Panama	3.5000	Ukraine	2.6000
China	3.2000	Japan	7.3000	Papua N.G.	2.3000	Uruguay	5.9000
Colombia	4.0000	Jordan	5.7000	Paraguay	2.1000	USA	7.6000
Congo	2.3000	Kazakhstan	2.6000	Peru	3.5000	Uzbekistan	2.2000
Cote d'Ivoire	1.9000	Kenya	2.1000	Philippines	2.5000	Venezuela	2.3000
Croatia	3.4000	Kuwait	4.7000	Poland	3.4000	Vietnam	2.6000
Czech Rep.	4.3000	Kyrgyzstan	2.3000	Portugal	6.5000	Yemen	2.7000
D.R. Congo	2.1000	Laos	3.3000	Romania	3.0000	Zambia	2.6000
Denmark	9.5000	Latvia	4.2000	Russia	2.4000	Zimbabwe	2.6000

### Descriptive Statistics - based on most recent data

Available	128	Mean	4.0016	Min	1.7000	Std. Deviation	2.1529	5 Percentile	2.0350
Missing	0	Median	3.1000	Max	9.6000			95 Percentile	8.7650

## Normalization

Type *LB (larger is better)*

Parameters  $u=3.0000$

$\tau=8.0000$

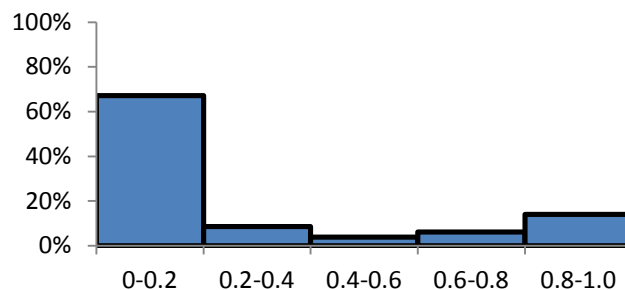
Comments  $u$  (values below 3 correspond to extremely corrupt countries)  $r$  (least corrupt countries range over [8,10])

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0200	Rwanda	0.0200
Algeria	0.0000	Egypt	0.0643	Lithuania	0.3600	Saudi Arabia	0.0800
Angola	0.0000	El Salvador	0.2400	Macedonia, FYR	0.1250	Senegal	0.0298
Argentina	0.0000	Estonia	0.6800	Madagascar	0.0050	Sierra Leone	0.0000
Armenia	0.0040	Ethiopia	0.0280	Malawi	0.0000	Slovakia	0.2600
Australia	1.0000	Finland	1.0000	Malaysia	0.4112	Slovenia	0.6059
Austria	1.0000	France	0.8950	Mali	0.0133	South Africa	0.3028
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0200	South Korea	0.4000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.1082	Spain	0.8000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0029	Sri Lanka	0.0563
Belgium	0.8800	Germany	1.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0974	Morocco	0.0429	Sweden	1.0000
Bolivia	0.0000	Greece	0.2600	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.6050	Guatemala	0.0003	Namibia	0.2600	Syria	0.0800
Brazil	0.1548	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.2000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0800	Hondura	0.0000	New Zealand	1.0000	Thailand	0.1600
Burundi	0.0000	Hungary	0.4000	Nicaragua	0.0008	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.4025
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.1000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.6400
Canada	1.0000	Ireland	0.8817	Oman	0.6467	Uganda	0.0000
Chad	0.0000	Israel	0.6648	Pakistan	0.0000	UK	1.0000
Chile	0.8600	Italy	0.4029	Panama	0.0920	Ukraine	0.0000
China	0.0750	Japan	0.8600	Papua N.G.	0.0000	Uruguay	0.5800
Colombia	0.2000	Jordan	0.5400	Paraguay	0.0000	USA	0.9175
Congo	0.0000	Kazakhstan	0.0000	Peru	0.1000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0002	Venezuela	0.0000
Croatia	0.0800	Kuwait	0.3400	Poland	0.0800	Vietnam	0.0000
Czech Rep.	0.2600	Kyrgyzstan	0.0000	Portugal	0.6900	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0600	Romania	0.0042	Zambia	0.0000
Denmark	1.0000	Latvia	0.2400	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2381	Min	0.0000	Std. Deviation	0.3484	5 Percentile	0.0000
Missing	0	Median	0.0240	Max	1.0000			95 Percentile	1.0000



**Indicator: Daily per capita calorie supply****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** Data taken from the Food and Agricultural Organization (FAO) food balance sheets. The calories and protein actually consumed may be lower than the figure shown, depending on how much is lost during home storage, preparation, and cooking, and how much is fed to pets and domestic animals or discarded.**Sources:** Food and Agricultural Organization of the United Nations  
<http://www.fao.org/es/ess/os/default.asp>**Period:** 1990-2005**Units:** kilocalories**Most recent data**

Albania	2,847.8000	Ecuador	2,754.0000	Lebanon	3,195.9000	Rwanda	2,084.2000
Algeria	3,021.5000	Egypt	3,338.0000	Lithuania	3,324.5000	Saudi Arabia	2,844.5000
Angola	2,082.7000	El Salvador	2,583.8000	Macedonia, FYR	2,654.6000	Senegal	2,279.5000
Argentina	2,992.1000	Estonia	3,002.2000	Madagascar	2,004.6000	Sierra Leone	1,936.0000
Armenia	2,267.7000	Ethiopia	1,857.3000	Malawi	2,154.6000	Slovakia	2,888.9000
Australia	3,053.6000	Finland	3,100.4000	Malaysia	2,881.1000	Slovenia	3,001.4000
Austria	3,673.3000	France	3,653.9000	Mali	2,173.9000	South Africa	2,956.1000
Azerbaijan	2,574.8000	Gabon	2,636.8000	Mauritania	2,772.0000	South Korea	3,058.0000
Bangladesh	2,205.0000	Gambia	2,272.7000	Mexico	3,144.7000	Spain	3,370.6000
Belarus	3,000.3000	Georgia	2,354.3000	Moldova	2,806.0000	Sri Lanka	2,385.3000
Belgium	3,583.8000	Germany	3,495.6000	Mongolia	2,249.1000	Sudan	2,227.8000
Benin	2,547.9000	Ghana	2,590.0000	Morocco	3,051.8000	Sweden	3,185.4000
Bolivia	2,235.2000	Greece	3,721.1000	Mozambique	2,078.9000	Switzerland	3,526.2000
Botswana	2,151.4000	Guatemala	2,219.1000	Namibia	2,277.5000	Syria	3,038.0000
Brazil	3,049.5000	Guinea	2,408.9000	Nepal	2,453.1000	Tajikistan	1,827.6000
Bulgaria	2,847.9000	Guinea Bis.	2,024.2000	Netherlands	3,362.3000	Tanzania	1,974.9000
Burkina Faso	2,461.9000	Hondura	2,355.8000	New Zealand	3,219.2000	Thailand	2,467.3000
Burundi	1,648.6000	Hungary	3,483.2000	Nicaragua	2,298.0000	Togo	2,345.4000
C. African R.	1,980.4000	India	2,459.0000	Niger	2,130.4000	Tunisia	3,237.8000
Cambodia	2,045.8000	Indonesia	2,903.9000	Nigeria	2,725.5000	Turkey	3,357.0000
Cameroon	2,273.2000	Iran	3,084.9000	Norway	3,484.2000	UAE	3,224.7000
Canada	3,589.3000	Ireland	3,656.4000	Oman	-	Uganda	2,409.6000
Chad	2,113.5000	Israel	3,666.1000	Pakistan	2,418.8000	UK	3,412.2000
Chile	2,863.2000	Italy	3,670.6000	Panama	2,271.7000	Ukraine	3,053.6000
China	2,951.0000	Japan	2,760.9000	Papua N.G.	2,186.0000	Uruguay	2,828.0000
Colombia	2,584.6000	Jordan	2,673.5000	Paraguay	2,565.3000	USA	3,774.1000
Congo	2,161.7000	Kazakhstan	2,676.6000	Peru	2,570.9000	Uzbekistan	2,240.6000
Cote d'Ivoire	2,630.6000	Kenya	2,090.1000	Philippines	2,379.3000	Venezuela	2,336.3000
Croatia	2,799.0000	Kuwait	3,010.0000	Poland	3,374.5000	Vietnam	2,566.2000
Czech Rep.	3,171.3000	Kyrgyzstan	2,999.1000	Portugal	3,740.9000	Yemen	2,038.3000
D.R. Congo	1,599.1000	Laos	2,311.7000	Romania	3,454.6000	Zambia	1,927.4000
Denmark	3,439.3000	Latvia	2,938.0000	Russia	3,071.8000	Zimbabwe	1,942.6000

**Descriptive Statistics - based on most recent data**

Available	127	Mean	2,719.8449	Min	1,599.1000	Std. Deviation	536.3827	5 Percentile	1,952.2900
Missing	1	Median	2,676.6000	Max	3,774.1000			95 Percentile	3,655.6500

## Normalization

Type *LB (larger is better)* Parameters  $u=1,599.1000$   $\tau=3,504.7000$   
 Comments  $u=\min$   $t=\text{average of EU-14}$

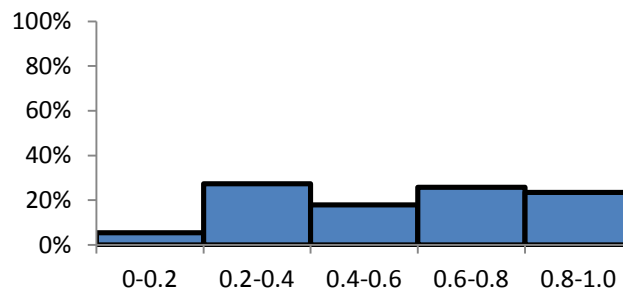
## Smoothed data

Albania	0.6593	Ecuador	0.6025	Lebanon	0.8214	Rwanda	0.2537
Algeria	0.7363	Egypt	0.9125	Lithuania	0.9066	Saudi Arabia	0.6535
Angola	0.2538	El Salvador	0.5167	Macedonia, FYR	0.5515	Senegal	0.3529
Argentina	0.7310	Estonia	0.7363	Madagascar	0.2290	Sierra Leone	0.1766
Armenia	0.3261	Ethiopia	0.1355	Malawi	0.2918	Slovakia	0.6785
Australia	0.7633	Finland	0.7931	Malaysia	0.6744	Slovenia	0.7350
Austria	0.9999	France	1.0000	Mali	0.3129	South Africa	0.7098
Azerbaijan	0.5120	Gabon	0.5422	Mauritania	0.6154	South Korea	0.7593
Bangladesh	0.3180	Gambia	0.3535	Mexico	0.8129	Spain	0.9292
Belarus	0.7358	Georgia	0.3903	Moldova	0.6333	Sri Lanka	0.4143
Belgium	1.0000	Germany	0.9842	Mongolia	0.3411	Sudan	0.3299
Benin	0.4924	Ghana	0.5200	Morocco	0.7616	Sweden	0.8214
Bolivia	0.3380	Greece	1.0000	Mozambique	0.2518	Switzerland	0.9939
Botswana	0.2937	Guatemala	0.3254	Namibia	0.3560	Syria	0.7551
Brazil	0.7611	Guinea	0.4250	Nepal	0.4470	Tajikistan	0.1199
Bulgaria	0.6553	Guinea Bis.	0.2231	Netherlands	0.9253	Tanzania	0.1968
Burkina Faso	0.4528	Hondura	0.3969	New Zealand	0.8497	Thailand	0.4556
Burundi	0.0260	Hungary	0.9887	Nicaragua	0.3651	Togo	0.3916
C. African R.	0.2001	India	0.4261	Niger	0.2787	Tunisia	0.8599
Cambodia	0.2344	Indonesia	0.6847	Nigeria	0.5911	Turkey	0.9218
Cameroon	0.3529	Iran	0.7797	Norway	0.9873	UAE	0.8531
Canada	1.0000	Ireland	1.0000	Oman	0.7415**	Uganda	0.4253
Chad	0.2821	Israel	1.0000	Pakistan	0.4312	UK	0.9508
Chile	0.6634	Italy	1.0000	Panama	0.3463	Ukraine	0.7633
China	0.7094	Japan	0.6177	Papua N.G.	0.3080	Uruguay	0.6449
Colombia	0.5172	Jordan	0.5638	Paraguay	0.5070	USA	1.0000
Congo	0.2952	Kazakhstan	0.5654	Peru	0.5100	Uzbekistan	0.3421
Cote d'Ivoire	0.5410	Kenya	0.2597	Philippines	0.4094	Venezuela	0.3903
Croatia	0.6297	Kuwait	0.7415	Poland	0.9149	Vietnam	0.5075
Czech Rep.	0.8250	Kyrgyzstan	0.7347	Portugal	0.9999	Yemen	0.2318
D.R. Congo	0.0000	Laos	0.3714	Romania	0.9669	Zambia	0.1723
Denmark	0.9582	Latvia	0.7041	Russia	0.7728	Zimbabwe	0.2043

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.5818	Min	0.0000	Std. Deviation	0.2677	5 Percentile	0.1979
Missing	0	Median	0.5783	Max	1.0000			95 Percentile	1.0000



## Indicator: Desertification of land

**Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)

**Secondary indicator:** Land, Biodiversity

**Tertiary indicator:** State, State

**Explanation:** Areas with a potential hazard of desertification. All major continents face problems of land degradation in dryland areas, commonly known as desertification. Dryland areas are 'fragile' in that they are extremely vulnerable to land degradation resulting from over-grazing and other forms of inappropriate land use.

**Sources:** Food and Agricultural Organization of the United Nations (www.fao.org) World Resources Institute - Earth Trends ([http://earthtrends.wri.org/searchable\\_db/results.php?years=all&variable\\_ID=701&theme=9&country\\_ID=all&country\\_classification\\_ID=all](http://earthtrends.wri.org/searchable_db/results.php?years=all&variable_ID=701&theme=9&country_ID=all&country_classification_ID=all))

**Period:** 1990-2005

**Units:** percent of dryland area

### Most recent data

Albania	0.0000	Ecuador	2.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	88.0000	Egypt	100.0000	Lithuania	0.0000	Saudi Arabia	100.0000
Angola	3.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	20.0000	Estonia	0.0000	Madagascar	4.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	10.0000	Malawi	0.0000	Slovakia	0.0000
Australia	38.0000	Finland	0.0000	Malaysia	0.0000	Slovenia	0.0000
Austria	0.0000	France	0.0000	Mali	51.0000	South Africa	41.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	78.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	33.0000	Spain	0.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	0.0000	Germany	0.0000	Mongolia	47.0000	Sudan	39.0000
Benin	0.0000	Ghana	0.0000	Morocco	34.0000	Sweden	0.0000
Bolivia	10.0000	Greece	0.0000	Mozambique	5.0000	Switzerland	0.0000
Botswana	57.0000	Guatemala	0.0000	Namibia	58.0000	Syria	25.0000
Brazil	1.0000	Guinea	0.0000	Nepal	16.0000	Tajikistan	8.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	0.0000	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	2.0000	Niger	53.0000	Tunisia	69.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	39.0000	Norway	0.0000	UAE	100.0000
Canada	0.0000	Ireland	0.0000	Oman	100.0000	Uganda	0.0000
Chad	38.0000	Israel	26.0000	Pakistan	65.0000	UK	0.0000
Chile	31.0000	Italy	0.0000	Panama	0.0000	Ukraine	0.0000
China	30.0000	Japan	0.0000	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	68.0000	Paraguay	0.0000	USA	12.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	7.0000
Cote d'Ivoire	0.0000	Kenya	11.0000	Philippines	0.0000	Venezuela	1.0000
Croatia	0.0000	Kuwait	100.0000	Poland	0.0000	Vietnam	0.0000
Czech Rep.	0.0000	Kyrgyzstan	9.0000	Portugal	0.0000	Yemen	93.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	8.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	13.5156	Min	0.0000	Std. Deviation	26.8261	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	100.0000			95 Percentile	84.5000

## Normalization

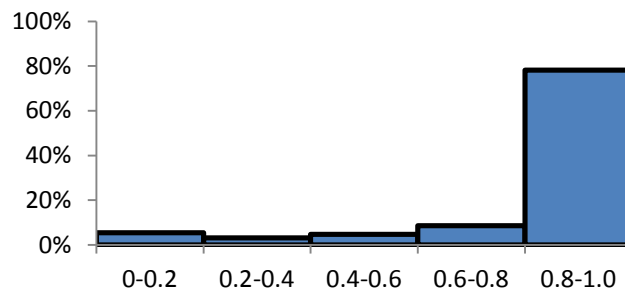
Type *SB (smaller is better)* Parameters *U=0.0000* *T=100.0000*  
 Comments *T=minimum possible* *U=maximum possible*

## Smoothed data

Albania	1.0000	Ecuador	0.9800	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.1200	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.9700	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	0.8000	Estonia	1.0000	Madagascar	0.9600	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.9000	Malawi	1.0000	Slovakia	1.0000
Australia	0.6200	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.4900	South Africa	0.5900
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	0.2200	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	0.6700	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5300	Sudan	0.6100
Benin	1.0000	Ghana	1.0000	Morocco	0.6600	Sweden	1.0000
Bolivia	0.9000	Greece	1.0000	Mozambique	0.9500	Switzerland	1.0000
Botswana	0.4300	Guatemala	1.0000	Namibia	0.4200	Syria	0.7500
Brazil	0.9900	Guinea	1.0000	Nepal	0.8400	Tajikistan	0.9200
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.9800	Niger	0.4700	Tunisia	0.3100
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	0.6100	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	1.0000
Chad	0.6200	Israel	0.7400	Pakistan	0.3500	UK	1.0000
Chile	0.6900	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.7000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.3200	Paraguay	1.0000	USA	0.8800
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9300
Cote d'Ivoire	1.0000	Kenya	0.8900	Philippines	1.0000	Venezuela	0.9900
Croatia	1.0000	Kuwait	0.0000	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	0.9100	Portugal	1.0000	Yemen	0.0700
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.9200

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8648	Min	0.0000	Std. Deviation	0.2683	5 Percentile	0.1550
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





## Indicator: Environmental laws and enforcement

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Policy

**Tertiary indicator:** Response

**Explanation:** This index ranges from zero to one hundred and is obtained by a subjective assessment on the basis of various world reports and authors' knowledge. National environmental laws are included in the context of this indicator as well as international agreements such as the Convention on Biological Diversity, the Ramsar Convention on Wetlands of International Importance, the Convention on International Trade of Endangered Species (CITES), national environmental laws, etc.

**Sources:** Esty et al. (2005); Environmental Sustainability Index 2002 ([www.yale.edu/esi](http://www.yale.edu/esi))

**Period:** 1990-2005

**Units:** [0, 100] scale (higher values correspond to better environmental governance)

### Most recent data

Albania	29.2100	Ecuador	24.1000	Lebanon	37.6700	Rwanda	24.7500
Algeria	29.1600	Egypt	34.3300	Lithuania	40.9600	Saudi Arabia	36.7400
Angola	17.7400	El Salvador	31.0700	Macedonia, FYR	26.1600	Senegal	31.3700
Argentina	32.2600	Estonia	44.5700	Madagascar	28.5900	Sierra Leone	20.1300
Armenia	33.5300	Ethiopia	24.2100	Malawi	33.6100	Slovakia	46.0500
Australia	52.9500	Finland	59.5000	Malaysia	44.0100	Slovenia	45.9100
Austria	53.4500	France	52.6500	Mali	26.5800	South Africa	42.0200
Azerbaijan	30.7600	Gabon	28.4500	Mauritania	29.5000	South Korea	43.0800
Bangladesh	28.9800	Gambia	38.8200	Mexico	39.5600	Spain	44.1100
Belarus	31.5700	Georgia	27.7000	Moldova	28.8000	Sri Lanka	29.9800
Belgium	51.9300	Germany	59.7400	Mongolia	30.5700	Sudan	24.0500
Benin	33.1000	Ghana	35.2000	Morocco	30.7300	Sweden	59.5600
Bolivia	25.7300	Greece	39.6600	Mozambique	25.2700	Switzerland	59.1400
Botswana	35.8300	Guatemala	24.4400	Namibia	39.3500	Syria	27.3700
Brazil	41.4800	Guinea	25.2000	Nepal	29.0900	Tajikistan	22.2400
Bulgaria	27.8300	Guinea Bis.	25.9300	Netherlands	56.9600	Tanzania	33.6500
Burkina Faso	29.7700	Hondura	26.3800	New Zealand	53.3600	Thailand	38.5900
Burundi	25.1900	Hungary	41.1800	Nicaragua	24.0800	Togo	24.2000
C. African R.	27.9500	India	34.1300	Niger	26.9800	Tunisia	47.3300
Cambodia	30.3300	Indonesia	34.5800	Nigeria	27.6100	Turkey	32.0800
Cameroon	30.7200	Iran	29.4900	Norway	57.8400	UAE	42.8600
Canada	47.6500	Ireland	41.9800	Oman	36.5900	Uganda	30.9600
Chad	22.4100	Israel	41.6700	Pakistan	28.5000	UK	52.9500
Chile	42.2600	Italy	46.0200	Panama	30.8200	Ukraine	32.5200
China	35.3900	Japan	51.2100	Papua N.G.	25.4600	Uruguay	35.7100
Colombia	36.1000	Jordan	41.2100	Paraguay	23.2700	USA	51.1700
Congo	24.2900	Kazakhstan	28.2400	Peru	28.2500	Uzbekistan	28.9000
Cote d'Ivoire	24.3700	Kenya	29.7900	Philippines	28.6600	Venezuela	25.6000
Croatia	37.8100	Kuwait	36.5000	Poland	38.5100	Vietnam	31.0900
Czech Rep.	46.4500	Kyrgyzstan	24.8100	Portugal	43.3000	Yemen	22.7900
D.R. Congo	18.7000	Laos	26.7300	Romania	29.0900	Zambia	35.3200
Denmark	59.1600	Latvia	44.3400	Russia	31.3500	Zimbabwe	27.6200

### Descriptive Statistics - based on most recent data

Available	128	Mean	34.9907	Min	17.7400	Std. Deviation	10.1074	5 Percentile	23.5430
Missing	0	Median	31.4700	Max	59.7400			95 Percentile	55.7315

## Normalization

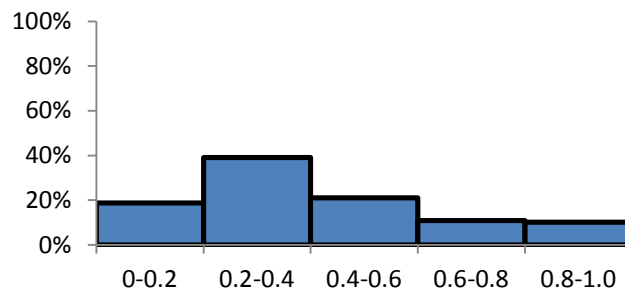
Type *LB (larger is better)* Parameters  $u=17.7400$   $\tau=59.7400$   
 Comments  $u=\min$   $r=\max$

## Smoothed data

Albania	0.2731	Ecuador	0.1514	Lebanon	0.4745	Rwanda	0.1669
Algeria	0.2719	Egypt	0.3950	Lithuania	0.5529	Saudi Arabia	0.4524
Angola	0.0000	El Salvador	0.3174	Macedonia, FYR	0.2005	Senegal	0.3245
Argentina	0.3457	Estonia	0.6388	Madagascar	0.2583	Sierra Leone	0.0569
Armenia	0.3760	Ethiopia	0.1540	Malawi	0.3779	Slovakia	0.6740
Australia	0.8383	Finland	0.9943	Malaysia	0.6255	Slovenia	0.6707
Austria	0.8502	France	0.8312	Mali	0.2105	South Africa	0.5781
Azerbaijan	0.3100	Gabon	0.2550	Mauritania	0.2800	South Korea	0.6033
Bangladesh	0.2676	Gambia	0.5019	Mexico	0.5195	Spain	0.6279
Belarus	0.3293	Georgia	0.2371	Moldova	0.2633	Sri Lanka	0.2914
Belgium	0.8140	Germany	1.0000	Mongolia	0.3055	Sudan	0.1502
Benin	0.3657	Ghana	0.4157	Morocco	0.3093	Sweden	0.9957
Bolivia	0.1902	Greece	0.5219	Mozambique	0.1793	Switzerland	0.9857
Botswana	0.4307	Guatemala	0.1595	Namibia	0.5145	Syria	0.2293
Brazil	0.5652	Guinea	0.1776	Nepal	0.2702	Tajikistan	0.1071
Bulgaria	0.2402	Guinea Bis.	0.1950	Netherlands	0.9338	Tanzania	0.3788
Burkina Faso	0.2864	Hondura	0.2057	New Zealand	0.8481	Thailand	0.4964
Burundi	0.1774	Hungary	0.5581	Nicaragua	0.1510	Togo	0.1538
C. African R.	0.2431	India	0.3902	Niger	0.2200	Tunisia	0.7045
Cambodia	0.2998	Indonesia	0.4010	Nigeria	0.2350	Turkey	0.3414
Cameroon	0.3090	Iran	0.2798	Norway	0.9548	UAE	0.5981
Canada	0.7121	Ireland	0.5771	Oman	0.4488	Uganda	0.3148
Chad	0.1112	Israel	0.5698	Pakistan	0.2562	UK	0.8383
Chile	0.5838	Italy	0.6733	Panama	0.3114	Ukraine	0.3519
China	0.4202	Japan	0.7969	Papua N.G.	0.1838	Uruguay	0.4279
Colombia	0.4371	Jordan	0.5588	Paraguay	0.1317	USA	0.7960
Congo	0.1560	Kazakhstan	0.2500	Peru	0.2502	Uzbekistan	0.2657
Cote d'Ivoire	0.1579	Kenya	0.2869	Philippines	0.2600	Venezuela	0.1871
Croatia	0.4779	Kuwait	0.4467	Poland	0.4945	Vietnam	0.3179
Czech Rep.	0.6836	Kyrgyzstan	0.1683	Portugal	0.6086	Yemen	0.1202
D.R. Congo	0.0229	Laos	0.2140	Romania	0.2702	Zambia	0.4186
Denmark	0.9862	Latvia	0.6333	Russia	0.3240	Zimbabwe	0.2352

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4107	Min	0.0000	Std. Deviation	0.2407	5 Percentile	0.1382
Missing	0	Median	0.3269	Max	1.0000			95 Percentile	0.9046



**Indicator: Exports****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Response**Explanation:** Exports of goods and services represent the value of all goods and other market services provided to the rest of the world. Exports create wealth.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** percent of GDP**Most recent data**

Albania	19.0564	Ecuador	23.7520	Lebanon	13.3669	Rwanda	8.5654
Algeria	39.0476	Egypt	21.6931	Lithuania	53.9104	Saudi Arabia	46.8992
Angola	71.3236	El Salvador	26.7929	Macedonia, FYR	35.2309	Senegal	28.4386
Argentina	24.9522	Estonia	74.9795	Madagascar	21.4924	Sierra Leone	22.4464
Armenia	31.8739	Ethiopia	17.1324	Malawi	27.4926	Slovakia	78.0419
Australia	19.7025	Finland	37.0055	Malaysia	114.3054	Slovenia	59.6537
Austria	51.7957	France	25.8068	Mali	26.3662	South Africa	28.1905
Azerbaijan	42.8076	Gabon	62.4163	Mauritania	33.8743	South Korea	38.1670
Bangladesh	14.2138	Gambia	40.6823	Mexico	28.4325	Spain	27.9434
Belarus	66.3932	Georgia	31.7751	Moldova	53.6765	Sri Lanka	35.7725
Belgium	82.1676	Germany	35.9539	Mongolia	67.6318	Sudan	16.2577
Benin	14.0495	Ghana	40.3339	Morocco	32.3382	Sweden	43.7220
Bolivia	23.7100	Greece	19.8365	Mozambique	22.7629	Switzerland	44.1708
Botswana	44.4819	Guatemala	16.2926	Namibia	39.3544	Syria	40.2397
Brazil	16.8580	Guinea	22.0173	Nepal	16.6538	Tajikistan	60.0341
Bulgaria	53.2214	Guinea Bis.	29.6700	Netherlands	62.6177	Tanzania	18.2653
Burkina Faso	8.5321	Hondura	36.4761	New Zealand	32.2859	Thailand	65.6499
Burundi	6.8284	Hungary	65.3791	Nicaragua	24.4273	Togo	33.8061
C. African R.	24.4256	India	14.4804	Niger	16.0315	Tunisia	43.1278
Cambodia	62.0133	Indonesia	31.2400	Nigeria	49.9789	Turkey	27.6547
Cameroon	25.5272	Iran	25.3226	Norway	41.3404	UAE	67.3697
Canada	41.5490	Ireland	93.6713	Oman	56.8256	Uganda	12.3483
Chad	20.5809	Israel	37.3143	Pakistan	20.4768	UK	25.1063
Chile	35.6995	Italy	25.3821	Panama	59.0332	Ukraine	52.9468
China	34.3407	Japan	11.8066	Papua N.G.	46.5732	Uruguay	25.5685
Colombia	21.3843	Jordan	44.5500	Paraguay	32.2739	USA	9.6538
Congo	77.6019	Kazakhstan	50.3889	Peru	17.6847	Uzbekistan	36.7378
Cote d'Ivoire	46.6889	Kenya	24.7847	Philippines	48.2672	Venezuela	30.5980
Croatia	47.0961	Kuwait	48.2771	Poland	20.9622	Vietnam	59.6630
Czech Rep.	62.8059	Kyrgyzstan	38.0318	Portugal	30.2784	Yemen	31.2100
D.R. Congo	18.8830	Laos	25.4886	Romania	33.0300	Zambia	20.5600
Denmark	43.4684	Latvia	47.0412	Russia	31.7329	Zimbabwe	24.0714

**Descriptive Statistics - based on most recent data**

Available	128	Mean	36.8160	Min	6.8284	Std. Deviation	19.0450	5 Percentile	13.6058
Missing	0	Median	32.3121	Max	114.3054			95 Percentile	70.0315

## Normalization

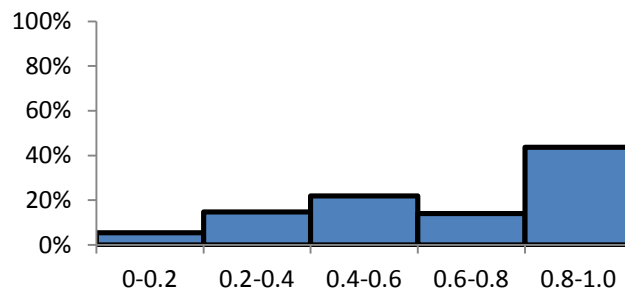
Type *LB (larger is better)* Parameters  $u=6.8284$   $\tau=43.1968$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.3361	Ecuador	0.4904	Lebanon	0.1798	Rwanda	0.0404
Algeria	0.8429	Egypt	0.4087	Lithuania	0.9976	Saudi Arabia	0.8662
Angola	0.9999	El Salvador	0.5475	Macedonia, FYR	0.7810	Senegal	0.6180
Argentina	0.5015	Estonia	1.0000	Madagascar	0.4293	Sierra Leone	0.3913
Armenia	0.6887	Ethiopia	0.2833	Malawi	0.5333	Slovakia	1.0000
Australia	0.3540	Finland	0.8298	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	0.5218	Mali	0.5824	South Africa	0.5874
Azerbaijan	0.9893	Gabon	0.9879	Mauritania	0.8165	South Korea	0.8558
Bangladesh	0.2031	Gambia	0.9309	Mexico	0.5940	Spain	0.5806
Belarus	0.9988	Georgia	0.6859	Moldova	0.9974	Sri Lanka	0.7971
Belgium	1.0000	Germany	0.8008	Mongolia	1.0000	Sudan	0.2523
Benin	0.2054	Ghana	0.9230	Morocco	0.7066	Sweden	1.0000
Bolivia	0.4642	Greece	0.3577	Mozambique	0.4381	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.2603	Namibia	0.8943	Syria	0.9195
Brazil	0.2758	Guinea	0.4176	Nepal	0.2708	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.6282	Netherlands	1.0000	Tanzania	0.3145
Burkina Faso	0.0561	Hondura	0.8152	New Zealand	0.7000	Thailand	1.0000
Burundi	0.0264	Hungary	1.0000	Nicaragua	0.4720	Togo	0.7418
C. African R.	0.2529	India	0.2111	Niger	0.2587	Tunisia	0.9981
Cambodia	1.0000	Indonesia	0.7176	Nigeria	0.9474	Turkey	0.5880
Cameroon	0.5451	Iran	0.4591	Norway	0.9530	UAE	1.0000
Canada	0.9547	Ireland	1.0000	Oman	0.9957	Uganda	0.1472
Chad	0.2877	Israel	0.8375	Pakistan	0.3753	UK	0.5026
Chile	0.7939	Italy	0.5102	Panama	1.0000	Ukraine	1.0000
China	0.7254	Japan	0.1369	Papua N.G.	1.0000	Uruguay	0.5153
Colombia	0.4002	Jordan	0.9964	Paraguay	0.6928	USA	0.0777
Congo	0.9996	Kazakhstan	0.9992	Peru	0.2975	Uzbekistan	0.7333
Cote d'Ivoire	0.9986	Kenya	0.5078	Philippines	1.0000	Venezuela	0.5773
Croatia	0.9995	Kuwait	0.9970	Poland	0.5024	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	0.8670	Portugal	0.6448	Yemen	0.6704
D.R. Congo	0.4284	Laos	0.5131	Romania	0.7334	Zambia	0.3784
Denmark	1.0000	Latvia	0.9984	Russia	0.7136	Zimbabwe	0.4741

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6805	Min	0.0264	Std. Deviation	0.2955	5 Percentile	0.1879
Missing	0	Median	0.7156	Max	1.0000			95 Percentile	1.0000



**Indicator: Female expected years of schooling****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Average number of years of formal schooling that a child is expected to receive, including university education and years spent in repetition. It may also be interpreted as an indicator of the total educational resources, measured in school years, a child will require over the course of schooling.**Sources:** World Bank (2007);United Nations  
(<http://unstats.un.org/unsd/demographic/products/socind/education.htm>)**Period:** 1990-2005**Units:** years**Most recent data**

Albania	11.6172	Ecuador	6.4000	Lebanon	13.4949	Rwanda	8.4034
Algeria	13.0000	Egypt	12.0000*	Lithuania	16.4617	Saudi Arabia	9.4850
Angola	3.9006	El Salvador	11.1211	Macedonia, FYR	12.2507	Senegal	2.6000
Argentina	17.2403	Estonia	16.7374	Madagascar	6.0420	Sierra Leone	5.7386
Armenia	11.0646	Ethiopia	4.7842	Malawi	10.4264	Slovakia	14.1334
Australia	20.7782	Finland	19.0863	Malaysia	12.7739	Slovenia	16.8410
Austria	15.1002	France	15.9400	Mali	0.9000	South Africa	12.9328
Azerbaijan	10.4171	Gabon	11.7135	Mauritania	6.7437	South Korea	14.9935
Bangladesh	8.5233	Gambia	5.9914	Mexico	12.7214	Spain	16.5805
Belarus	14.5836	Georgia	11.5181	Moldova	10.4192	Sri Lanka	6.9000
Belgium	19.9101	Germany	15.7124	Mongolia	11.8804	Sudan	2.1000
Benin	6.1716	Ghana	7.2677	Morocco	9.2402	Sweden	20.7097
Bolivia	12.1876	Greece	15.9816	Mozambique	5.8868	Switzerland	15.5997
Botswana	11.7112	Guatemala	8.7305	Namibia	11.6483	Syria	5.8000
Brazil	15.0212	Guinea	0.0000	Nepal	8.6601	Tajikistan	10.2322
Bulgaria	12.8406	Guinea Bis.	4.2413	Netherlands	16.5798	Tanzania	4.8702
Burkina Faso	3.0500	Hondura	4.8000	New Zealand	20.5744	Thailand	12.3967
Burundi	4.9401	Hungary	16.0957	Nicaragua	10.7915	Togo	8.2789
C. African R.	2.5000	India	8.9275	Niger	2.3060	Tunisia	13.5891
Cambodia	8.3306	Indonesia	10.9705	Nigeria	9.0242	Turkey	9.8814
Cameroon	8.3703	Iran	11.0573	Norway	18.5488	UAE	13.0503
Canada	16.3211	Ireland	17.7254	Oman	10.3511	Uganda	11.6756
Chad	3.6625	Israel	15.9576	Pakistan	4.7487	UK	22.8128
Chile	13.5620	Italy	16.0099	Panama	13.8288	Ukraine	13.6648
China	10.6158	Japan	14.5331	Papua N.G.	5.3265	Uruguay	15.8597
Colombia	11.2581	Jordan	12.9660	Paraguay	12.2525	USA	16.3277
Congo	6.9999	Kazakhstan	13.9132	Peru	13.8340	Uzbekistan	11.3867
Cote d'Ivoire	5.1103	Kenya	8.3756	Philippines	12.2800	Venezuela	12.0271
Croatia	13.3269	Kuwait	14.2982	Poland	16.1210	Vietnam	10.1462
Czech Rep.	15.0624	Kyrgyzstan	13.0715	Portugal	16.6358	Yemen	5.4869
D.R. Congo	4.0000*	Laos	8.1386	Romania	12.9676	Zambia	6.5227
Denmark	17.5514	Latvia	16.0640	Russia	13.8970	Zimbabwe	8.6890

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	11.2359	Min	0.0000	Std. Deviation	4.7548	5 Percentile	3.2644
Missing	0	Median	11.6934	Max	22.8128			95 Percentile	18.2606

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=12.0000$   
 Comments  $u=\min$   $r=\text{typical in many developed countries}$

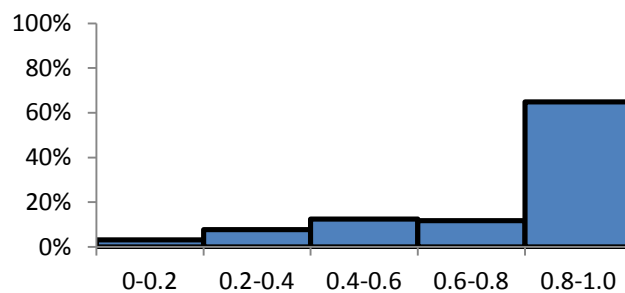
## Smoothed data

Albania	0.9527	Ecuador	0.5333	Lebanon	1.0000	Rwanda	0.7003
Algeria	1.0000	Egypt	1.0000*	Lithuania	1.0000	Saudi Arabia	0.7941
Angola	0.3250	El Salvador	0.9268	Macedonia, FYR	1.0000	Senegal	0.2167
Argentina	1.0000	Estonia	1.0000	Madagascar	0.5035	Sierra Leone	0.4782
Armenia	0.9220	Ethiopia	0.3987	Malawi	0.8689	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.0750	South Africa	1.0000
Azerbaijan	0.8681	Gabon	0.9761	Mauritania	0.5620	South Korea	1.0000
Bangladesh	0.7103	Gambia	0.4993	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	0.9598	Moldova	0.8683	Sri Lanka	0.5750
Belgium	1.0000	Germany	1.0000	Mongolia	0.9900	Sudan	0.1750
Benin	0.5143	Ghana	0.6016	Morocco	0.7700	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.4906	Switzerland	1.0000
Botswana	0.9759	Guatemala	0.7275	Namibia	0.9707	Syria	0.4833
Brazil	1.0000	Guinea	0.0000	Nepal	0.7217	Tajikistan	0.8527
Bulgaria	1.0000	Guinea Bis.	0.3534	Netherlands	1.0000	Tanzania	0.4058
Burkina Faso	0.2542	Hondura	0.4000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.4117	Hungary	1.0000	Nicaragua	0.8993	Togo	0.6899
C. African R.	0.2083	India	0.7440	Niger	0.1922	Tunisia	1.0000
Cambodia	0.6942	Indonesia	0.9142	Nigeria	0.7520	Turkey	0.8234
Cameroon	0.6975	Iran	0.9174	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	0.8626	Uganda	0.9730
Chad	0.3052	Israel	1.0000	Pakistan	0.3957	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.8846	Japan	1.0000	Papua N.G.	0.4439	Uruguay	1.0000
Colombia	0.9343	Jordan	1.0000	Paraguay	1.0000	USA	1.0000
Congo	0.5833	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9489
Cote d'Ivoire	0.4259	Kenya	0.6980	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.8455
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.4572
D.R. Congo	0.3333*	Laos	0.6782	Romania	1.0000	Zambia	0.5388
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.7241

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8076	Min	0.0000	Std. Deviation	0.2624	5 Percentile	0.2720
Missing	0	Median	0.9744	Max	1.0000			95 Percentile	1.0000



**Indicator: Fertilizer consumption****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Water**Tertiary indicator:** Pressure, Pressure**Explanation:** Fertilizer consumption measures the quantity of plant nutrients used per unit of arable land in the form of nitrogenous, potash, and phosphate fertilizers (including ground rock phosphate). 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 of water bodies.**Sources:** Esty et al. (2005)**Period:** 1990-2005**Units:** kg of fertilizer per hectare of arable land**Most recent data**

Albania	32.3530	Ecuador	142.3460	Lebanon	321.0700	Rwanda	0.3000
Algeria	13.7380	Egypt	457.4160	Lithuania	55.2900	Saudi Arabia	106.6000
Angola	0.0000	El Salvador	110.8700	Macedonia, FYR	53.5340	Senegal	16.2600
Argentina	25.5110	Estonia	62.2680	Madagascar	2.2970	Sierra Leone	0.6000
Armenia	10.1100	Ethiopia	12.5950	Malawi	10.3440	Slovakia	86.5460
Australia	48.9620	Finland	135.5550	Malaysia	628.1700	Slovenia	418.8800
Austria	135.5250	France	226.4870	Mali	9.0130	South Africa	500.9200
Azerbaijan	7.0000	Gabon	0.9230	Mauritania	4.0980	South Korea	422.5800
Bangladesh	167.5700	Gambia	3.2000	Mexico	75.3910	Spain	167.6900
Belarus	127.2220	Georgia	52.8300	Moldova	2.8020	Sri Lanka	261.6500
Belgium	207.0000	Germany	221.1390	Mongolia	2.6690	Sudan	4.8670
Benin	15.5500	Ghana	2.7570	Morocco	41.1660	Sweden	106.5300
Bolivia	4.1790	Greece	154.4120	Mozambique	6.2250	Switzerland	221.9100
Botswana	12.4320	Guatemala	134.5180	Namibia	0.3680	Syria	59.9980
Brazil	115.0600	Guinea	3.5960	Nepal	22.6710	Tajikistan	13.0110
Bulgaria	35.4050	Guinea Bis.	8.0000	Netherlands	451.9300	Tanzania	5.6250
Burkina Faso	8.2320	Hondura	141.8540	New Zealand	592.7800	Thailand	114.4600
Burundi	3.8890	Hungary	70.0390	Nicaragua	11.7390	Togo	7.6490
C. African R.	0.3110	India	107.3240	Niger	1.1100	Tunisia	39.1850
Cambodia	0.0000	Indonesia	123.1020	Nigeria	7.7540	Turkey	70.0970
Cameroon	8.8090	Iran	92.5220	Norway	217.0400	UAE	364.0000
Canada	52.1770	Ireland	494.9840	Oman	157.6500	Uganda	1.1370
Chad	4.8610	Israel	263.3140	Pakistan	136.0400	UK	337.7500
Chile	242.6840	Italy	205.7020	Panama	53.2850	Ukraine	14.5560
China	246.3030	Japan	304.6120	Papua N.G.	56.1900	Uruguay	91.9890
Colombia	254.5310	Jordan	94.2620	Paraguay	22.1190	USA	111.9400
Congo	28.5710	Kazakhstan	2.3400	Peru	81.2700	Uzbekistan	154.5800
Cote d'Ivoire	20.1610	Kenya	31.4440	Philippines	138.2900	Venezuela	115.4700
Croatia	147.4980	Kuwait	80.4620	Poland	111.4200	Vietnam	307.5600
Czech Rep.	128.3220	Kyrgyzstan	5.0000	Portugal	114.5700	Yemen	11.1190
D.R. Congo	2.0830	Laos	14.0060	Romania	34.8300	Zambia	6.9200
Denmark	138.3070	Latvia	34.7890	Russia	12.9400	Zimbabwe	47.2670

**Descriptive Statistics - based on most recent data**

Available	128	Mean	106.7557	Min	0.0000	Std. Deviation	133.7659	5 Percentile	0.9885
Missing	0	Median	54.4120	Max	628.1700			95 Percentile	421.2850



## Normalization

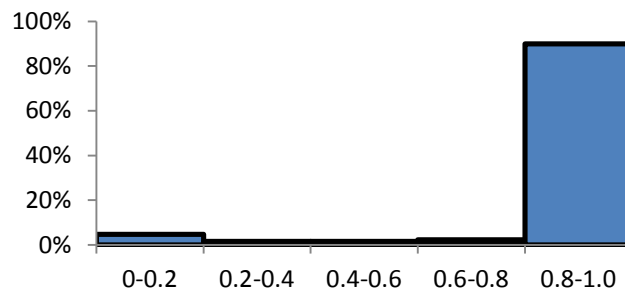
Type *SB (smaller is better)* Parameters  $U=221.2558$   $T=494.9840$   
 Comments  $T=\text{average of EU-14}$   $U=\text{max}$

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.6354	Rwanda	1.0000
Algeria	1.0000	Egypt	0.1372	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	0.2780
Austria	1.0000	France	0.9809	Mali	1.0000	South Africa	0.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	0.2645
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.8524
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	0.9976
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	0.1573	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	0.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	1.0000	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	1.0000	UAE	0.4785
Canada	1.0000	Ireland	0.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	0.8464	Pakistan	1.0000	UK	0.5744
Chile	0.9217	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.9085	Japan	0.6955	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.8784	Jordan	1.0000	Paraguay	1.0000	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.6847
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9242	Min	0.0000	Std. Deviation	0.2285	5 Percentile	0.2692
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





**Indicator: Foreign direct investments****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Response**Explanation:** Foreign direct investment is net inflows of investment to acquire a lasting management interest (10 percent or more of voting stock) in an enterprise operating in an economy other than that of the investor.**Sources:** World Bank (2007); United Nations Conference on Trade and Development (<http://www.unctad.org/Templates/Page.asp?intItemID=1923&lang=1>)**Period:** 1990-2005**Units:** percent of GDP (net inflows)**Most recent data**

Albania	2.9071	Ecuador	5.7157	Lebanon	1.8842	Rwanda	0.2883
Algeria	0.9527	Egypt	0.2880	Lithuania	0.9837	Saudi Arabia	3.9400
Angola	10.7262	El Salvador	0.5983	Macedonia, FYR	2.0264	Senegal	1.2051
Argentina	0.7874	Estonia	9.8081	Madagascar	0.2325	Sierra Leone	0.3951
Armenia	4.3095	Ethiopia	0.9020	Malawi	1.3420	Slovakia	1.7565
Australia	1.3115	Finland	2.1229	Malaysia	2.3841	Slovenia	1.2146
Austria	2.8746	France	2.7169	Mali	2.9830	South Africa	0.5126
Azerbaijan	46.0244	Gabon	0.8758	Mauritania	19.5807	South Korea	0.5323
Bangladesh	0.1974	Gambia	15.1713	Mexico	1.7224	Spain	3.0421
Belarus	0.9821	Georgia	8.4724	Moldova	2.9764	Sri Lanka	1.2541
Belgium	10.7105	Germany	0.4689	Mongolia	10.3181	Sudan	7.5826
Benin	1.4802	Ghana	1.7930	Morocco	5.2125	Sweden	1.0835
Bolivia	2.1209	Greece	0.4163	Mozambique	7.7929	Switzerland	5.4815
Botswana	1.1460	Guatemala	0.4684	Namibia	34.1000	Syria	0.6977
Brazil	2.0603	Guinea	2.1751	Nepal	0.2526	Tajikistan	2.0382
Bulgaria	7.1470	Guinea Bis.	0.8654	Netherlands	3.0684	Tanzania	2.4085
Burkina Faso	0.2674	Hondura	2.8381	New Zealand	3.0638	Thailand	1.3636
Burundi	0.0008	Hungary	3.0291	Nicaragua	4.9300	Togo	1.1249
C. African R.	0.3053	India	0.7107	Niger	1.1465	Tunisia	2.1606
Cambodia	2.0569	Indonesia	-0.2866	Nigeria	2.0551	Turkey	0.6498
Cameroon	1.7218	Iran	0.0875	Norway	0.9306	UAE	8.1600
Canada	0.7324	Ireland	17.3037	Oman	0.1167	Uganda	3.0842
Chad	32.0761	Israel	3.3314	Pakistan	0.6487	UK	1.1531
Chile	4.1180	Italy	1.1263	Panama	6.1416	Ukraine	2.8746
China	3.7759	Japan	0.1450	Papua N.G.	3.1866	Uruguay	2.4556
Colombia	2.2202	Jordan	3.8150	Paraguay	1.5058	USA	0.3643
Congo	5.6308	Kazakhstan	7.0200	Peru	2.2735	Uzbekistan	0.7036
Cote d'Ivoire	1.3098	Kenya	0.5686	Philippines	0.3959	Venezuela	2.9510
Croatia	6.9388	Kuwait	-0.1608	Poland	1.9674	Vietnam	3.7024
Czech Rep.	2.8027	Kyrgyzstan	2.3862	Portugal	0.6550	Yemen	-0.8227
D.R. Congo	2.7861	Laos	0.9181	Romania	3.2379	Zambia	2.3067
Denmark	0.5592	Latvia	2.7086	Russia	1.8385	Zimbabwe	0.1459

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.5797	Min	-0.8227	Std. Deviation	6.2778	5 Percentile	0.1454
Missing	0	Median	1.9969	Max	46.0244			95 Percentile	10.7207

## Normalization

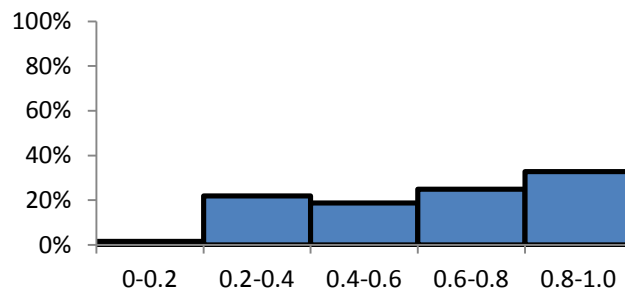
Type *LB (larger is better)* Parameters  $u=-0.8227$   $\tau=3.3787$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.8878	Ecuador	1.0000	Lebanon	0.6443	Rwanda	0.2473
Algeria	0.4958	Egypt	0.3676	Lithuania	0.4300	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	0.5890	Macedonia, FYR	0.7324	Senegal	0.5487
Argentina	0.4008	Estonia	1.0000	Madagascar	0.2512	Sierra Leone	0.2882
Armenia	0.9999	Ethiopia	0.4373	Malawi	0.4564	Slovakia	0.7545
Australia	0.6605	Finland	0.7011	Malaysia	0.8780	Slovenia	0.5936
Austria	0.6835	France	0.8425	Mali	0.9263	South Africa	0.4539
Azerbaijan	1.0000	Gabon	0.3119	Mauritania	0.9998	South Korea	0.3225
Bangladesh	0.2403	Gambia	0.9989	Mexico	0.6058	Spain	0.9199
Belarus	0.4916	Georgia	1.0000	Moldova	0.9042	Sri Lanka	0.4807
Belgium	1.0000	Germany	0.3771	Mongolia	1.0000	Sudan	1.0000
Benin	0.5594	Ghana	0.6226	Morocco	0.7294	Sweden	0.7580
Bolivia	0.7006	Greece	0.3381	Mozambique	1.0000	Switzerland	1.0000
Botswana	0.5659	Guatemala	0.4381	Namibia	1.0000	Syria	0.4014
Brazil	0.6862	Guinea	0.3589	Nepal	0.2559	Tajikistan	0.7019
Bulgaria	1.0000	Guinea Bis.	0.4864	Netherlands	0.9261	Tanzania	0.7691
Burkina Faso	0.2820	Hondura	0.8666	New Zealand	0.7692	Thailand	0.5123
Burundi	0.2341	Hungary	0.9230	Nicaragua	1.0000	Togo	0.4636
C. African R.	0.2908	India	0.3650	Niger	0.3607	Tunisia	0.7938
Cambodia	0.6854	Indonesia	0.1276	Nigeria	0.6850	Turkey	0.3411
Cameroon	0.6056	Iran	0.2107	Norway	0.4173	UAE	1.0000
Canada	0.3701	Ireland	1.0000	Oman	0.2403	Uganda	0.9299
Chad	1.0000	Israel	0.8863	Pakistan	0.3723	UK	0.4703
Chile	0.9793	Italy	0.4639	Panama	0.8716	Ukraine	0.8300
China	1.0000	Japan	0.2356	Papua N.G.	0.7414	Uruguay	0.7803
Colombia	0.7917	Jordan	0.7084	Paraguay	0.5645	USA	0.2825
Congo	0.9413	Kazakhstan	1.0000	Peru	0.7494	Uzbekistan	0.3608
Cote d'Ivoire	0.5134	Kenya	0.2768	Philippines	0.6120	Venezuela	0.7857
Croatia	1.0000	Kuwait	0.2165	Poland	0.6641	Vietnam	1.0000
Czech Rep.	0.8711	Kyrgyzstan	0.7513	Portugal	0.6685	Yemen	0.0000
D.R. Congo	0.7937	Laos	0.4143	Romania	0.9356	Zambia	0.7888
Denmark	0.3289	Latvia	0.8405	Russia	0.6079	Zimbabwe	0.2373

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6487	Min	0.0000	Std. Deviation	0.2702	5 Percentile	0.2383
Missing	0	Median	0.6842	Max	1.0000			95 Percentile	1.0000



**Indicator: Forest area****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** State, State**Explanation:** Forest area is land under natural or planted stands of trees, whether productive or not. Forests maintain land sustainability.**Sources:** United Nations - MDG Indicators (<http://mdgs.un.org/unsd/mdg/Data.aspx>)**Period:** 1990-2005**Units:** percent of what existed in year 2000**Most recent data**

Albania	103.2510	Ecuador	91.6561	Lebanon	103.8168	Rwanda	139.5349
Algeria	106.2034	Egypt	113.5593	Lithuania	100.0000	Saudi Arabia	100.0000
Angola	98.9553	El Salvador	91.9753	Macedonia, FYR	103.9109	Senegal	97.4713
Argentina	97.7821	Estonia	101.8279	Madagascar	98.5794	Sierra Leone	96.5977
Armenia	92.7869	Ethiopia	94.8559	Malawi	95.3743	Slovakia	100.4165
Australia	99.4127	Finland	100.1112	Malaysia	96.7533	Slovenia	102.0178
Austria	100.6253	France	101.3224	Mali	96.1750	South Africa	100.0000
Azerbaijan	100.0000	Gabon	99.7663	Mauritania	84.2271	South Korea	99.4444
Bangladesh	98.5294	Gambia	102.1692	Mexico	98.0134	Spain	108.9985
Belarus	100.5861	Georgia	100.0000	Moldova	100.9202	Sri Lanka	92.8434
Belgium	100.0000	Germany	100.0000	Mongolia	96.1275	Sudan	95.8222
Benin	87.8879	Ghana	90.5317	Morocco	100.8318	Sweden	100.1966
Bolivia	97.7517	Greece	104.1933	Mozambique	98.7187	Switzerland	101.8349
Botswana	95.2772	Guatemala	93.5837	Namibia	95.3691	Syria	106.7130
Brazil	96.8543	Guinea	97.3928	Nepal	93.2308	Tajikistan	100.0000
Bulgaria	107.4074	Guinea Bis.	97.7358	Netherlands	101.3889	Tanzania	94.4772
Burkina Faso	98.2644	Hondura	85.5985	New Zealand	101.0090	Thailand	98.0154
Burundi	76.7677	Hungary	103.6182	Nicaragua	93.6812	Togo	79.4239
C. African R.	99.3538	India	100.2176	Niger	95.3313	Tunisia	110.1147
Cambodia	90.5208	Indonesia	90.4376	Nigeria	84.4104	Turkey	101.2236
Cameroon	95.0772	Iran	100.0000	Norway	100.9246	UAE	100.6452
Canada	100.0000	Ireland	109.8522	Oman	100.0000	Uganda	89.3570
Chad	96.7849	Israel	104.2683	Pakistan	89.8866	UK	101.8618
Chile	101.8126	Italy	105.6314	Panama	99.6982	Ukraine	100.6835
China	111.4626	Japan	99.9678	Papua N.G.	97.6935	Uruguay	106.8843
Colombia	99.6145	Jordan	100.0000	Paraguay	95.3893	USA	100.2630
Congo	99.6232	Kazakhstan	99.1679	Peru	99.3195	Uzbekistan	102.5841
Cote d'Ivoire	100.7455	Kenya	98.3250	Philippines	90.0994	Venezuela	97.0743
Croatia	100.2818	Kuwait	120.0000	Poland	101.4682	Vietnam	110.2857
Czech Rep.	100.4171	Kyrgyzstan	101.2821	Portugal	105.5819	Yemen	100.0000
D.R. Congo	98.8188	Laos	97.6409	Romania	100.0628	Zambia	95.0219
Denmark	102.8807	Latvia	101.9411	Russia	99.9409	Zimbabwe	91.8084

**Descriptive Statistics - based on most recent data**

Available	128	Mean	99.1712	Min	76.7677	Std. Deviation	6.9710	5 Percentile	89.5423
Missing	0	Median	99.9839	Max	139.5349			95 Percentile	109.5534

## Normalization

Type *LB (larger is better)*

Parameters  $u=76.7677$   $\tau=100.0000$

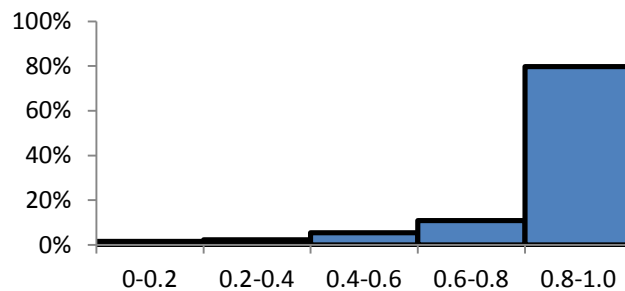
Comments  $u=\min$   $r=\max$  (100% compared to 2000)

## Smoothed data

Albania	1.0000	Ecuador	0.6408	Lebanon	1.0000	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.9550	El Salvador	0.6546	Macedonia, FYR	1.0000	Senegal	0.8912
Argentina	0.9045	Estonia	1.0000	Madagascar	0.9389	Sierra Leone	0.8536
Armenia	0.6895	Ethiopia	0.7786	Malawi	0.8009	Slovakia	1.0000
Australia	0.9747	Finland	1.0000	Malaysia	0.8602	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.8354	South Africa	1.0000
Azerbaijan	1.0000	Gabon	0.9899	Mauritania	0.3211	South Korea	0.9761
Bangladesh	0.9367	Gambia	1.0000	Mexico	0.9145	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.6920
Belgium	1.0000	Germany	1.0000	Mongolia	0.8333	Sudan	0.8202
Benin	0.4787	Ghana	0.5925	Morocco	1.0000	Sweden	1.0000
Bolivia	0.9032	Greece	1.0000	Mozambique	0.9448	Switzerland	1.0000
Botswana	0.7967	Guatemala	0.7238	Namibia	0.8007	Syria	1.0000
Brazil	0.8646	Guinea	0.8878	Nepal	0.7086	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.9025	Netherlands	1.0000	Tanzania	0.7623
Burkina Faso	0.9253	Hondura	0.3801	New Zealand	1.0000	Thailand	0.9146
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.7280	Togo	0.1143
C. African R.	0.9722	India	1.0000	Niger	0.7990	Tunisia	1.0000
Cambodia	0.5920	Indonesia	0.5884	Nigeria	0.3290	Turkey	1.0000
Cameroon	0.7881	Iran	1.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.5419
Chad	0.8616	Israel	1.0000	Pakistan	0.5647	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	0.9870	Ukraine	1.0000
China	1.0000	Japan	0.9986	Papua N.G.	0.9007	Uruguay	1.0000
Colombia	0.9834	Jordan	1.0000	Paraguay	0.8015	USA	1.0000
Congo	0.9838	Kazakhstan	0.9642	Peru	0.9707	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	0.9279	Philippines	0.5738	Venezuela	0.8741
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.9492	Laos	0.8985	Romania	1.0000	Zambia	0.7857
Denmark	1.0000	Latvia	1.0000	Russia	0.9975	Zimbabwe	0.6474

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8904	Min	0.0000	Std. Deviation	0.1860	5 Percentile	0.5499
Missing	0	Median	0.9993	Max	1.0000			95 Percentile	1.0000



**Indicator: Forest change****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** Response, Response**Explanation:** Forest area change is the net change in forests and includes expansion of forest plantations and losses and gains in the area of natural forests. A positive forest change improves land sustainability.**Sources:** World Resources Institute – Earth Trends  
[http://www.earthtrends.wri.org/searchable\\_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable\\_ID=299&action=select\\_years](http://www.earthtrends.wri.org/searchable_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable_ID=299&action=select_years)**Period:** 1990-2005**Units:** annual rate of change**Most recent data**

Albania	0.6000	Ecuador	-1.7000	Lebanon	0.8000	Rwanda	6.9000
Algeria	1.2000	Egypt	2.6000	Lithuania	0.8000	Saudi Arabia	0.0000
Angola	-0.2000	El Salvador	-1.7000	Macedonia, FYR	0.0000	Senegal	-0.5000
Argentina	-0.4000	Estonia	0.4000	Madagascar	-0.3000	Sierra Leone	-0.7000
Armenia	-1.5000	Ethiopia	-1.1000	Malawi	-0.9000	Slovakia	0.1000
Australia	-0.1000	Finland	0.1000	Malaysia	-0.7000	Slovenia	0.4000
Austria	0.1000	France	0.3000	Mali	-0.8000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	-0.2000	Mauritania	-3.4000	South Korea	-0.1000
Bangladesh	-0.3000	Gambia	0.4000	Mexico	-0.4000	Spain	1.7000
Belarus	0.1000	Georgia	0.0000	Moldova	0.2000	Sri Lanka	-1.5000
Belgium	0.0000	Germany	0.0000	Mongolia	-0.8000	Sudan	-0.8000
Benin	-2.5000	Ghana	-2.0000	Morocco	0.2000	Sweden	0.2000
Bolivia	-0.5000	Greece	0.8000	Mozambique	-0.3000	Switzerland	0.4000
Botswana	-1.0000	Guatemala	-1.3000	Namibia	-0.9000	Syria	1.3000
Brazil	-0.6000	Guinea	-0.5000	Nepal	-1.4000	Tajikistan	0.0000
Bulgaria	1.4000	Guinea Bis.	-0.5000	Netherlands	0.3000	Tanzania	-1.1000
Burkina Faso	-0.3000	Hondura	-3.1000	New Zealand	0.2000	Thailand	-0.4000
Burundi	-5.2000	Hungary	0.7000	Nicaragua	-1.3000	Togo	-4.5000
C. African R.	-0.1000	India	0.6000	Niger	-1.0000	Tunisia	1.9000
Cambodia	-2.0000	Indonesia	-2.0000	Nigeria	-3.3000	Turkey	0.2000
Cameroon	-1.0000	Iran	0.0000	Norway	0.2000	UAE	0.1000
Canada	0.0000	Ireland	1.9000	Oman	0.0000	Uganda	-2.2000
Chad	-0.7000	Israel	0.8000	Pakistan	-2.1000	UK	0.4000
Chile	0.4000	Italy	1.1000	Panama	-0.1000	Ukraine	0.1000
China	2.2000	Japan	0.0000	Papua N.G.	-0.5000	Uruguay	1.3000
Colombia	-0.1000	Jordan	0.0000	Paraguay	-0.9000	USA	0.1000
Congo	-0.1000	Kazakhstan	-0.2000	Peru	-0.1000	Uzbekistan	0.5000
Cote d'Ivoire	0.1000	Kenya	-0.3000	Philippines	-2.1000	Venezuela	-0.6000
Croatia	0.1000	Kuwait	2.7000	Poland	0.3000	Vietnam	2.0000
Czech Rep.	0.1000	Kyrgyzstan	0.3000	Portugal	1.1000	Yemen	0.0000
D.R. Congo	-0.2000	Laos	-0.5000	Romania	0.1000	Zambia	-1.0000
Denmark	0.6000	Latvia	0.4000	Russia	0.1000	Zimbabwe	-1.7000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	-0.2063	Min	-5.2000	Std. Deviation	1.3631	5 Percentile	-2.1650
Missing	0	Median	0.0000	Max	6.9000			95 Percentile	1.8300

## Normalization

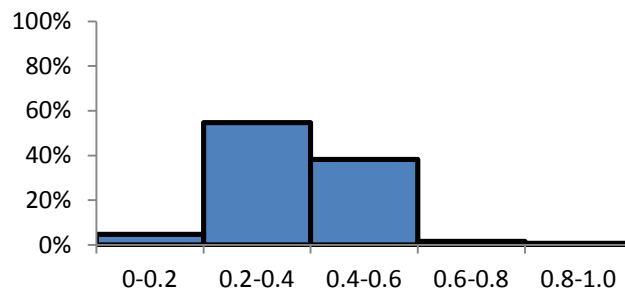
Type *LB (larger is better)* Parameters  $u=-4.5000$   $\tau=6.9000$   
 Comments  $u=\min$  (excluding 1%outliers)  $r=\max$

## Smoothed data

Albania	0.4474	Ecuador	0.2456	Lebanon	0.4649	Rwanda	1.0000
Algeria	0.5000	Egypt	0.6228	Lithuania	0.4649	Saudi Arabia	0.3947
Angola	0.3772	El Salvador	0.2456	Macedonia, FYR	0.3947	Senegal	0.3509
Argentina	0.3596	Estonia	0.4298	Madagascar	0.3684	Sierra Leone	0.3333
Armenia	0.2632	Ethiopia	0.2982	Malawi	0.3158	Slovakia	0.4035
Australia	0.3860	Finland	0.4035	Malaysia	0.3333	Slovenia	0.4298
Austria	0.4035	France	0.4211	Mali	0.3246	South Africa	0.3947
Azerbaijan	0.3947	Gabon	0.3772	Mauritania	0.0965	South Korea	0.3860
Bangladesh	0.3684	Gambia	0.4298	Mexico	0.3596	Spain	0.5439
Belarus	0.4035	Georgia	0.3947	Moldova	0.4123	Sri Lanka	0.2632
Belgium	0.3947	Germany	0.3947	Mongolia	0.3246	Sudan	0.3246
Benin	0.1754	Ghana	0.2193	Morocco	0.4123	Sweden	0.4123
Bolivia	0.3509	Greece	0.4649	Mozambique	0.3684	Switzerland	0.4298
Botswana	0.3070	Guatemala	0.2807	Namibia	0.3158	Syria	0.5088
Brazil	0.3421	Guinea	0.3509	Nepal	0.2719	Tajikistan	0.3947
Bulgaria	0.5175	Guinea Bis.	0.3509	Netherlands	0.4211	Tanzania	0.2982
Burkina Faso	0.3684	Hondura	0.1228	New Zealand	0.4123	Thailand	0.3596
Burundi	0.0000	Hungary	0.4561	Nicaragua	0.2807	Togo	0.0000
C. African R.	0.3860	India	0.4474	Niger	0.3070	Tunisia	0.5614
Cambodia	0.2193	Indonesia	0.2193	Nigeria	0.1053	Turkey	0.4123
Cameroon	0.3070	Iran	0.3947	Norway	0.4123	UAE	0.4035
Canada	0.3947	Ireland	0.5614	Oman	0.3947	Uganda	0.2018
Chad	0.3333	Israel	0.4649	Pakistan	0.2105	UK	0.4298
Chile	0.4298	Italy	0.4912	Panama	0.3860	Ukraine	0.4035
China	0.5877	Japan	0.3947	Papua N.G.	0.3509	Uruguay	0.5088
Colombia	0.3860	Jordan	0.3947	Paraguay	0.3158	USA	0.4035
Congo	0.3860	Kazakhstan	0.3772	Peru	0.3860	Uzbekistan	0.4386
Cote d'Ivoire	0.4035	Kenya	0.3684	Philippines	0.2105	Venezuela	0.3421
Croatia	0.4035	Kuwait	0.6316	Poland	0.4211	Vietnam	0.5702
Czech Rep.	0.4035	Kyrgyzstan	0.4211	Portugal	0.4912	Yemen	0.3947
D.R. Congo	0.3772	Laos	0.3509	Romania	0.4035	Zambia	0.3070
Denmark	0.4474	Latvia	0.4298	Russia	0.4035	Zimbabwe	0.2456

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3771	Min	0.0000	Std. Deviation	0.1179	5 Percentile	0.2048
Missing	0	Median	0.3947	Max	1.0000			95 Percentile	0.5553



**Indicator: GDP implicit deflator****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Pressure**Explanation:** Reflects changes in prices for all final demand categories, such as government consumption, capital formation, and international trade, as well as the main component, private final consumption. It is derived as the ratio of current to constant-price GDP (Gross Domestic Product). It is known as inflation indicator affecting the sustainability of a national economy.**Sources:** World Bank (2007); World Bank Millennium Development Goals (<http://ddp-ext.worldbank.org/ext/GMIS/home.do?siteId=2>)**Period:** 1990-2005**Units:** average annual percent growth rate**Most recent data**

Albania	3.8991	Ecuador	8.9883	Lebanon	1.3000	Rwanda	4.5511
Algeria	8.2139	Egypt	3.7650	Lithuania	1.3486	Saudi Arabia	6.1230
Angola	92.3055	El Salvador	2.0913	Macedonia, FYR	1.7878	Senegal	0.8500
Argentina	10.7082	Estonia	2.4013	Madagascar	2.7592	Sierra Leone	6.3464
Armenia	4.6008	Ethiopia	14.4975	Malawi	11.2076	Slovakia	2.5714
Australia	2.5933	Finland	0.6992	Malaysia	3.5097	Slovenia	0.9030
Austria	1.9556	France	1.5180	Mali	1.8034	South Africa	5.9409
Azerbaijan	3.9939	Gabon	-1.1542	Mauritania	1.7771	South Korea	2.2803
Bangladesh	4.5277	Gambia	30.7656	Mexico	6.4903	Spain	4.2000
Belarus	28.7349	Georgia	7.9755	Moldova	13.8587	Sri Lanka	5.0230
Belgium	1.7434	Germany	0.9923	Mongolia	4.7419	Sudan	8.2023
Benin	2.5987	Ghana	28.7050	Morocco	0.0052	Sweden	2.2829
Bolivia	5.1417	Greece	3.5179	Mozambique	12.5986	Switzerland	1.0200
Botswana	3.6033	Guatemala	5.7518	Namibia	-1.2817	Syria	5.1293
Brazil	12.7733	Guinea	12.3724	Nepal	4.5023	Tajikistan	9.8695
Bulgaria	4.7000	Guinea Bis.	-2.8461	Netherlands	3.3659	Tanzania	5.6929
Burkina Faso	2.2152	Hondura	8.6401	New Zealand	0.3019	Thailand	2.0443
Burundi	11.6200	Hungary	7.8258	Nicaragua	5.5811	Togo	-3.2480
C. African R.	3.0508	India	3.2000	Niger	-0.3667	Tunisia	2.2374
Cambodia	2.2585	Indonesia	6.5414	Nigeria	21.0211	Turkey	21.2858
Cameroon	0.9479	Iran	16.4697	Norway	2.2993	UAE	0.7050
Canada	0.9275	Ireland	5.4308	Oman	1.8062	Uganda	10.1119
Chad	-0.4607	Israel	0.1498	Pakistan	4.6454	UK	3.0860
Chile	4.4336	Italy	2.9482	Panama	1.3833	Ukraine	6.9337
China	2.2496	Japan	-2.4900	Papua N.G.	5.8361	Uruguay	17.9295
Colombia	8.2152	Jordan	1.8629	Paraguay	18.3367	USA	1.5397
Congo	-4.0366	Kazakhstan	7.9080	Peru	3.8000	Uzbekistan	24.2483
Cote d'Ivoire	1.7957	Kenya	11.3902	Philippines	3.6799	Venezuela	36.8246
Croatia	3.2130	Kuwait	3.3704	Poland	0.6506	Vietnam	5.4146
Czech Rep.	1.7089	Kyrgyzstan	3.7614	Portugal	5.0783	Yemen	9.1591
D.R. Congo	21.5134	Laos	16.7074	Romania	23.1781	Zambia	19.0235
Denmark	2.1408	Latvia	-1.0637	Russia	14.4481	Zimbabwe	107.5090

**Descriptive Statistics - based on most recent data**

Available	128	Mean	7.6861	Min	-4.0366	Std. Deviation	13.7575	5 Percentile	-0.8527
Missing	0	Median	3.8496	Max	107.5090			95 Percentile	23.8737



## Normalization

Type *SB (smaller is better)*

Parameters

$U=2.7828$

$T=5.4308$

Comments  $T=$ average of EU-14

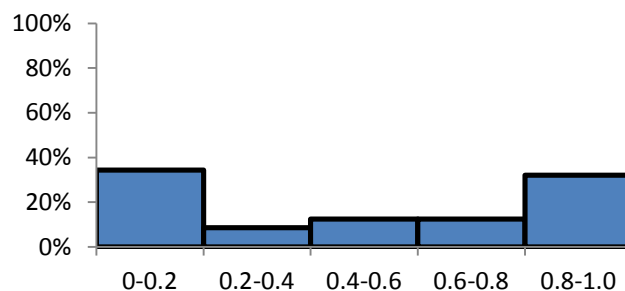
$U=$ max (excluding 1.5% outliers)

## Smoothed data

Albania	0.5755	Ecuador	0.3530	Lebanon	0.9705	Rwanda	0.3756
Algeria	0.3543	Egypt	0.5923	Lithuania	1.0000	Saudi Arabia	0.5603
Angola	0.0000	El Salvador	0.9761	Macedonia, FYR	0.7976	Senegal	0.9982
Argentina	0.0004	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	0.0409
Armenia	0.5464	Ethiopia	0.5326	Malawi	0.0000	Slovakia	0.9283
Australia	0.9145	Finland	0.9428	Malaysia	0.6466	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.5868	South Africa	0.0000
Azerbaijan	0.6411	Gabon	0.5875	Mauritania	0.3297	South Korea	0.9731
Bangladesh	0.5689	Gambia	0.0147	Mexico	0.0000	Spain	0.4648
Belarus	0.0000	Georgia	0.0821	Moldova	0.0000	Sri Lanka	0.0452
Belgium	0.9992	Germany	1.0000	Mongolia	0.3140	Sudan	0.0000
Benin	0.9977	Ghana	0.0000	Morocco	0.9962	Sweden	1.0000
Bolivia	0.4648	Greece	0.7119	Mozambique	0.0907	Switzerland	1.0000
Botswana	0.1018	Guatemala	0.0105	Namibia	1.0000	Syria	0.4449
Brazil	0.0460	Guinea	0.3902	Nepal	0.5189	Tajikistan	0.0000
Bulgaria	0.2760	Guinea Bis.	0.7109	Netherlands	0.5975	Tanzania	0.0000
Burkina Faso	0.5328	Hondura	0.0000	New Zealand	0.9284	Thailand	0.9704
Burundi	0.1620	Hungary	0.0000	Nicaragua	0.1031	Togo	0.9398
C. African R.	0.8216	India	0.8425	Niger	1.0000	Tunisia	1.0000
Cambodia	0.8662	Indonesia	0.0010	Nigeria	0.1952	Turkey	0.0000
Cameroon	0.7007	Iran	0.0000	Norway	0.7897	UAE	0.6885
Canada	0.9472	Ireland	0.2060	Oman	0.6323	Uganda	0.3659
Chad	0.4625	Israel	0.8125	Pakistan	0.3497	UK	0.8855
Chile	0.4054	Italy	0.9328	Panama	0.9099	Ukraine	0.0083
China	1.0000	Japan	0.9996	Papua N.G.	0.0015	Uruguay	0.0000
Colombia	0.0085	Jordan	0.9268	Paraguay	0.2390	USA	1.0000
Congo	0.6488	Kazakhstan	0.0000	Peru	0.6159	Uzbekistan	0.0000
Cote d'Ivoire	0.6730	Kenya	0.0000	Philippines	0.6612	Venezuela	0.0000
Croatia	0.7514	Kuwait	0.6778	Poland	1.0000	Vietnam	0.0061
Czech Rep.	0.8757	Kyrgyzstan	0.6303	Portugal	0.1331	Yemen	0.1608
D.R. Congo	0.0000	Laos	0.0110	Romania	0.0000	Zambia	0.0000
Denmark	0.9997	Latvia	1.0000	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4965	Min	0.0000	Std. Deviation	0.3945	5 Percentile	0.0000
Missing	0	Median	0.5534	Max	1.0000			95 Percentile	1.0000





**Indicator: Gini index****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State**Explanation:** It measures the extent to which the distribution of income among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of zero would represent perfect equality and an index of 100 would imply perfect inequality - a single person or household accounting for all income or consumption.**Sources:** World Bank (2007); CIA (2008); Global Peace (www.visionofhumanity.org)**Period:** 1990-2005**Units:** 0-100 (0 representing perfect equality and 100 perfect inequality)**Most recent data**

Albania	28.1700	Ecuador	43.7300	Lebanon	45.0000	Rwanda	28.9000
Algeria	35.3000	Egypt	34.4100	Lithuania	31.9000	Saudi Arabia	32.0000
Angola	62.0000	El Salvador	53.2000	Macedonia, FYR	28.2100	Senegal	41.2800
Argentina	52.2000	Estonia	37.2400	Madagascar	47.4500	Sierra Leone	70.2000
Armenia	37.9200	Ethiopia	29.9709	Malawi	50.3100	Slovakia	25.8100
Australia	35.1900	Finland	26.8800	Malaysia	49.1500	Slovenia	28.4100
Austria	29.9900	France	32.7400	Mali	50.5000	South Africa	57.7800
Azerbaijan	36.5000	Gabon	60.0000	Mauritania	39.0150	South Korea	31.5900
Bangladesh	31.7900	Gambia	47.5400	Mexico	54.6000	Spain	32.5000
Belarus	30.3500	Georgia	36.9470	Moldova	36.9000	Sri Lanka	33.2000
Belgium	25.0000	Germany	28.3100	Mongolia	30.2700	Sudan	51.0000
Benin	36.5000	Ghana	40.7950	Morocco	39.5000	Sweden	25.0000
Bolivia	44.7000	Greece	35.3741	Mozambique	39.6100	Switzerland	33.1300
Botswana	63.0000	Guatemala	59.8700	Namibia	70.6607	Syria	42.0000
Brazil	59.2500	Guinea	40.3000	Nepal	36.6600	Tajikistan	32.6400
Bulgaria	31.9100	Guinea Bis.	47.0477	Netherlands	30.9000	Tanzania	38.1600
Burkina Faso	48.2200	Hondura	55.0000	New Zealand	36.1720	Thailand	43.1500
Burundi	33.3300	Hungary	26.8500	Nicaragua	43.1100	Togo	33.5000
C. African R.	61.3300	India	32.5000	Niger	50.5400	Tunisia	39.8000
Cambodia	40.3900	Indonesia	34.3079	Nigeria	50.5600	Turkey	40.0300
Cameroon	44.5647	Iran	43.0000	Norway	25.7900	UAE	50.0000
Canada	33.1400	Ireland	35.9000	Oman	32.0000	Uganda	43.0000
Chad	52.5000	Israel	35.5000	Pakistan	32.9900	UK	35.9737
Chile	57.1000	Italy	36.0331	Panama	56.4000	Ukraine	28.9600
China	44.7300	Japan	24.8500	Papua N.G.	50.9000	Uruguay	44.6000
Colombia	57.6000	Jordan	36.4200	Paraguay	57.7700	USA	40.8100
Congo	56.2000	Kazakhstan	32.2660	Peru	49.8000	Uzbekistan	26.8380
Cote d'Ivoire	44.5800	Kenya	42.5000	Philippines	46.0900	Venezuela	49.1026
Croatia	29.0000	Kuwait	30.0000	Poland	34.0900	Vietnam	37.0300
Czech Rep.	25.4000	Kyrgyzstan	34.7600	Portugal	38.4543	Yemen	33.4400
D.R. Congo	55.0000	Laos	37.0000	Romania	30.3100	Zambia	50.8000
Denmark	24.7000	Latvia	33.6200	Russia	31.0180	Zimbabwe	56.8000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	40.4413	Min	24.7000	Std. Deviation	10.6485	5 Percentile	26.1698
Missing	0	Median	37.1350	Max	70.6607			95 Percentile	59.6530

## Normalization

Type SB (smaller is better)

Parameters U=25.7900

T=50.0000

Comments T (the maximum value of Scandinavian countries)

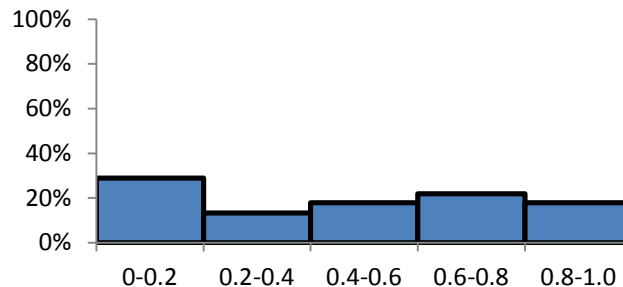
U (most developing countries range over [3,7], 3 being their best value)

## Smoothed data

Albania	0.9017	Ecuador	0.2590	Lebanon	0.2065	Rwanda	0.8715
Algeria	0.6072	Egypt	0.6439	Lithuania	0.7476	Saudi Arabia	0.7435
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.9000	Senegal	0.3602
Argentina	0.0000	Estonia	0.5271	Madagascar	0.1053	Sierra Leone	0.0000
Armenia	0.4990	Ethiopia	0.8273	Malawi	0.0000	Slovakia	0.9992
Australia	0.6117	Finland	0.9550	Malaysia	0.0351	Slovenia	0.8918
Austria	0.8265	France	0.7129	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.5576	Gabon	0.0000	Mauritania	0.4537	South Korea	0.7604
Bangladesh	0.7522	Gambia	0.1016	Mexico	0.0000	Spain	0.7228
Belarus	0.8116	Georgia	0.5392	Moldova	0.5411	Sri Lanka	0.6939
Belgium	1.0000	Germany	0.8959	Mongolia	0.8150	Sudan	0.0000
Benin	0.5576	Ghana	0.3802	Morocco	0.4337	Sweden	1.0000
Bolivia	0.2189	Greece	0.6041	Mozambique	0.4292	Switzerland	0.6968
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.3304
Brazil	0.0000	Guinea	0.4007	Nepal	0.5510	Tajikistan	0.7171
Bulgaria	0.7472	Guinea Bis.	0.1219	Netherlands	0.7889	Tanzania	0.4891
Burkina Faso	0.0735	Hondura	0.0000	New Zealand	0.5712	Thailand	0.2829
Burundi	0.6886	Hungary	0.9562	Nicaragua	0.2846	Togo	0.6815
C. African R.	0.0000	India	0.7228	Niger	0.0000	Tunisia	0.4213
Cambodia	0.3969	Indonesia	0.6482	Nigeria	0.0000	Turkey	0.4118
Cameroon	0.2245	Iran	0.2891	Norway	1.0000	UAE	0.0000
Canada	0.6964	Ireland	0.5824	Oman	0.7435	Uganda	0.2891
Chad	0.0000	Israel	0.5989	Pakistan	0.7026	UK	0.5794
Chile	0.0000	Italy	0.5769	Panama	0.0000	Ukraine	0.8691
China	0.2177	Japan	1.0000	Papua N.G.	0.0000	Uruguay	0.2230
Colombia	0.0000	Jordan	0.5609	Paraguay	0.0000	USA	0.3796
Congo	0.0000	Kazakhstan	0.7325	Peru	0.0083	Uzbekistan	0.9567
Cote d'Ivoire	0.2239	Kenya	0.3098	Philippines	0.1615	Venezuela	0.0371
Croatia	0.8674	Kuwait	0.8261	Poland	0.6572	Vietnam	0.5357
Czech Rep.	1.0000	Kyrgyzstan	0.6295	Portugal	0.4769	Yemen	0.6840
D.R. Congo	0.0000	Laos	0.5370	Romania	0.8133	Zambia	0.0000
Denmark	1.0000	Latvia	0.6766	Russia	0.7841	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4526	Min	0.0000	Std. Deviation	0.3383	5 Percentile	0.0000
Missing	0	Median	0.5314	Max	1.0000			95 Percentile	0.9843



## Indicator: Glass recycling

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Response

**Explanation:** Recycling rates are the ratios of the quantity collected for recycling to the apparent consumption. Reducing uncontrolled waste improves land sustainability.

**Sources:** United Nations Environment Programme  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1552](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1552))

Esty et al. (2005); OECD (2005a); Fischer and Werge (2009)

**Period:** 1990-2005

**Units:** percent of apparent consumption

### Most recent data

Albania	0.0000	Ecuador	-	Lebanon	-	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	20.3000	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	-	Senegal	0.0000
Argentina	-	Estonia	14.5000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	40.0000
Australia	40.0000	Finland	72.0000	Malaysia	-	Slovenia	3.5000
Austria	83.0000	France	62.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	-	Gabon	0.0000	Mauritania	-	South Korea	70.0000
Bangladesh	-	Gambia	0.0000	Mexico	13.0000	Spain	45.0000
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	92.0000	Germany	85.5000	Mongolia	0.0000	Sudan	0.0000*
Benin	-	Ghana	0.0000	Morocco	0.0000	Sweden	96.0000
Bolivia	-	Greece	17.0000	Mozambique	0.0000	Switzerland	95.0000
Botswana	-	Guatemala	-	Namibia	-	Syria	-
Brazil	44.0000	Guinea	-	Nepal	-	Tajikistan	0.0000*
Bulgaria	18.4000	Guinea Bis.	0.0000*	Netherlands	78.0000	Tanzania	0.0000*
Burkina Faso	-	Hondura	0.0000*	New Zealand	49.1125	Thailand	0.0000
Burundi	0.0000	Hungary	14.0000	Nicaragua	-	Togo	0.0000
C. African R.	0.0000	India	-	Niger	0.0000*	Tunisia	-
Cambodia	-	Indonesia	-	Nigeria	0.0000*	Turkey	32.0000
Cameroon	-	Iran	0.0000*	Norway	90.0000	UAE	0.0000*
Canada	-	Ireland	81.0000	Oman	0.0000*	Uganda	-
Chad	0.0000	Israel	-	Pakistan	-	UK	36.0000
Chile	5.0000	Italy	62.0000	Panama	0.0000	Ukraine	0.0000*
China	-	Japan	90.0000	Papua N.G.	0.0000*	Uruguay	0.0000
Colombia	16.0000	Jordan	0.0000	Paraguay	-	USA	21.6471
Congo	-	Kazakhstan	0.0000*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	-	Kenya	-	Philippines	0.0000	Venezuela	0.0000*
Croatia	-	Kuwait	0.0000	Poland	1.9000	Vietnam	-
Czech Rep.	16.8000	Kyrgyzstan	0.0000	Portugal	41.0000	Yemen	-
D.R. Congo	-	Laos	0.0000*	Romania	10.2000	Zambia	0.0000*
Denmark	70.0000	Latvia	5.1000	Russia	-	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	89	Mean	18.3254	Min	0.0000	Std. Deviation	29.9431	5 Percentile	0.0000
Missing	39	Median	0.0000	Max	96.0000			95 Percentile	88.2000

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

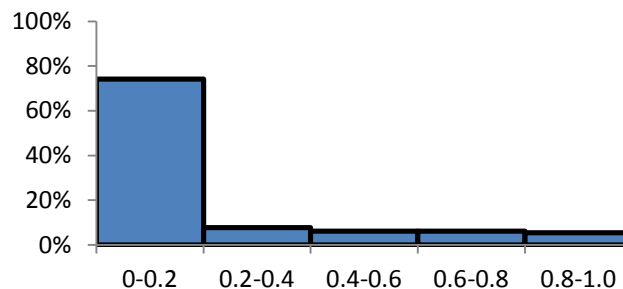
## Smoothed data

Albania	0.0000	Ecuador	0.0000**	Lebanon	0.3200**	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	0.2030	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	0.0000**	Senegal	0.0000
Argentina	0.2200**	Estonia	0.1450	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.4000
Australia	0.4000	Finland	0.7200	Malaysia	0.0000**	Slovenia	0.0350
Austria	0.8416	France	0.6200	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000**	Gabon	0.0000	Mauritania	0.0000**	South Korea	0.7000
Bangladesh	0.0000**	Gambia	0.0000	Mexico	0.1300	Spain	0.4323
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	0.9200	Germany	0.8550	Mongolia	0.0000	Sudan	0.0000*
Benin	0.0000**	Ghana	0.0000	Morocco	0.0000	Sweden	0.9600
Bolivia	0.4400**	Greece	0.2568	Mozambique	0.0000	Switzerland	0.9500
Botswana	0.0190**	Guatemala	0.4400**	Namibia	0.0000**	Syria	0.1600**
Brazil	0.4400	Guinea	0.0000**	Nepal	0.0000**	Tajikistan	0.0000*
Bulgaria	0.1840	Guinea Bis.	0.0000*	Netherlands	0.7955	Tanzania	0.0000*
Burkina Faso	0.0000**	Hondura	0.0000*	New Zealand	0.4911	Thailand	0.0000
Burundi	0.0000	Hungary	0.1400	Nicaragua	0.4400**	Togo	0.0000
C. African R.	0.0000	India	0.0000**	Niger	0.0000*	Tunisia	0.0000**
Cambodia	0.0000**	Indonesia	0.0000**	Nigeria	0.0000*	Turkey	0.3200
Cameroon	0.0000**	Iran	0.0000*	Norway	0.9000	UAE	0.0000*
Canada	0.6200**	Ireland	0.7818	Oman	0.0000*	Uganda	0.0000**
Chad	0.0000	Israel	0.0000**	Pakistan	0.0000**	UK	0.3600
Chile	0.0500	Italy	0.6192	Panama	0.0000	Ukraine	0.0000*
China	0.0000**	Japan	0.9000	Papua N.G.	0.0000*	Uruguay	0.0000
Colombia	0.1600	Jordan	0.0000	Paraguay	0.2200**	USA	0.2167
Congo	0.0000**	Kazakhstan	0.0000*	Peru	0.4400**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000**	Kenya	0.0000**	Philippines	0.0000	Venezuela	0.0000*
Croatia	0.1658**	Kuwait	0.0000	Poland	0.0190	Vietnam	0.0000**
Czech Rep.	0.1680	Kyrgyzstan	0.0000	Portugal	0.4100	Yemen	0.0000**
D.R. Congo	0.0000**	Laos	0.0000*	Romania	0.1020	Zambia	0.0000*
Denmark	0.6940	Latvia	0.0510	Russia	0.0920**	Zimbabwe	0.0000**

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1558	Min	0.0000	Std. Deviation	0.2692	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	0.9600			95 Percentile	0.8255



**Indicator: GNI per capita****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** State**Explanation:** PPP GNI is gross national income converted to international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States. GNI is the total market value of all final goods and services produced within a country, plus income received from other countries such as interest and dividends, minus similar payments made to other countries. PPP equalizes the purchasing power of different currencies for a given set of goods. Thus GNI PPP (U.S.\$) is national income converted to international dollars using a conversion factor. This indicator is commonly used to evaluate the status of wealth sustainability at the national level.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** current U.S.\$ (based on PPP, purchasing power parity)**Most recent data**

Albania	4,710.0000	Ecuador	3,440.0000	Lebanon	4,840.0000	Rwanda	1,290.0000
Algeria	5,930.0000	Egypt	3,940.0000	Lithuania	11,390.0000	Saudi Arabia	13,230.0000
Angola	1,910.0000	El Salvador	4,910.0000	Macedonia, FYR	6,750.0000	Senegal	1,620.0000
Argentina	11,410.0000	Estonia	12,680.0000	Madagascar	800.0000	Sierra Leone	530.0000
Armenia	3,790.0000	Ethiopia	710.0000	Malawi	590.0000	Slovakia	13,440.0000
Australia	28,780.0000	Finland	27,460.0000	Malaysia	8,970.0000	Slovenia	19,100.0000
Austria	29,740.0000	France	27,640.0000	Mali	960.0000	South Africa	10,130.0000
Azerbaijan	3,390.0000	Gabon	5,500.0000	Mauritania	1,870.0000	South Korea	18,000.0000
Bangladesh	1,870.0000	Gambia	1,740.0000	Mexico	8,980.0000	Spain	22,150.0000
Belarus	6,050.0000	Georgia	2,610.0000	Moldova	1,760.0000	Sri Lanka	3,740.0000
Belgium	28,920.0000	Germany	27,610.0000	Mongolia	1,820.0000	Sudan	1,760.0000
Benin	1,110.0000	Ghana	2,190.0000	Morocco	3,940.0000	Sweden	26,710.0000
Bolivia	2,490.0000	Greece	19,900.0000	Mozambique	1,060.0000	Switzerland	32,220.0000
Botswana	8,370.0000	Guatemala	4,090.0000	Namibia	6,660.0000	Syria	3,430.0000
Brazil	7,510.0000	Guinea	2,080.0000	Nepal	1,420.0000	Tajikistan	1,040.0000
Bulgaria	7,540.0000	Guinea Bis.	680.0000	Netherlands	28,560.0000	Tanzania	620.0000
Burkina Faso	1,170.0000	Hondura	2,590.0000	New Zealand	21,350.0000	Thailand	7,450.0000
Burundi	630.0000	Hungary	13,840.0000	Nicaragua	3,180.0000	Togo	1,640.0000
C. African R.	1,080.0000	India	2,880.0000	Niger	830.0000	Tunisia	6,850.0000
Cambodia	2,000.0000	Indonesia	3,210.0000	Nigeria	900.0000	Turkey	6,710.0000
Cameroon	1,990.0000	Iran	7,000.0000	Norway	37,910.0000	UAE	20,920.0000
Canada	30,040.0000	Ireland	30,910.0000	Oman	13,000.0000	Uganda	1,430.0000
Chad	1,080.0000	Israel	19,440.0000	Pakistan	2,040.0000	UK	27,690.0000
Chile	9,810.0000	Italy	26,830.0000	Panama	6,420.0000	Ukraine	5,430.0000
China	4,980.0000	Japan	28,450.0000	Papua N.G.	2,250.0000	Uruguay	7,980.0000
Colombia	6,410.0000	Jordan	4,290.0000	Paraguay	4,690.0000	USA	37,750.0000
Congo	730.0000	Kazakhstan	6,280.0000	Peru	5,080.0000	Uzbekistan	1,720.0000
Cote d'Ivoire	1,400.0000	Kenya	1,030.0000	Philippines	4,640.0000	Venezuela	4,750.0000
Croatia	10,610.0000	Kuwait	19,480.0000	Poland	11,210.0000	Vietnam	2,490.0000
Czech Rep.	15,600.0000	Kyrgyzstan	1,690.0000	Portugal	17,710.0000	Yemen	820.0000
D.R. Congo	660.0000	Laos	1,730.0000	Romania	7,140.0000	Zambia	580.4000
Denmark	31,050.0000	Latvia	10,210.0000	Russia	8,950.0000	Zimbabwe	2,180.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	8,928.6750	Min	530.0000	Std. Deviation	9,791.1939	5 Percentile	690.5000
Missing	0	Median	4,795.0000	Max	37,910.0000			95 Percentile	29,453.0000

## Normalization

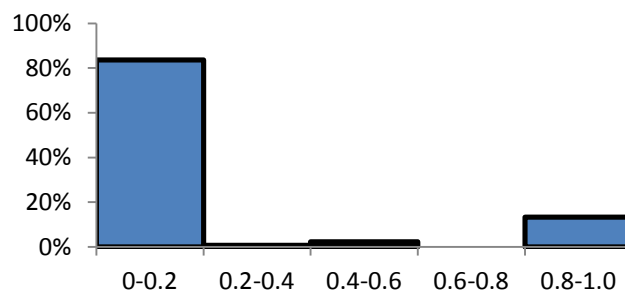
Type *LB (larger is better)* Parameters  $u=17,710.0000$   $\tau=26,634.2857$   
 Comments  $u=\text{min of EU-14}$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	0.0000	Estonia	0.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	0.1558
Austria	1.0000	France	1.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.0325
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	0.4975
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	0.2454	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.0000
Brazil	0.0000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	0.4079	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.4077
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.1939	Pakistan	0.0000	UK	1.0000
Chile	0.0000	Italy	1.0000	Panama	0.0000	Ukraine	0.0000
China	0.0000	Japan	1.0000	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.0000	Kuwait	0.1146	Poland	0.0000	Vietnam	0.0000
Czech Rep.	0.0000	Kyrgyzstan	0.0000	Portugal	0.0002	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	1.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1489	Min	0.0000	Std. Deviation	0.3423	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Greenhouse gas emissions per capita

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Air

**Tertiary indicator:** Pressure

**Explanation:** Emissions of total GHG (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs and SF<sub>6</sub>), excluding land-use change and forestry. The global warming potential is an index used to translate the level of emissions of various gases into a common measure in order to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWP is the ratio of the warming caused by a substance to the warming caused by the same mass of carbon dioxide.

**Sources:** United Nations Environment Programme  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1195](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1195))

**Period:** 1990-2005

**Units:** tons of CO<sub>2</sub> equivalent per capita

### Most recent data

Albania	0.0019	Ecuador	0.0034	Lebanon	0.0052	Rwanda	0.0007
Algeria	0.0042	Egypt	0.0026	Lithuania	0.0050	Saudi Arabia	0.0165
Angola	0.0054	El Salvador	0.0018	Macedonia, FYR	0.0058	Senegal	0.0018
Argentina	0.0078	Estonia	0.0158	Madagascar	0.0023	Sierra Leone	0.0012
Armenia	0.0021	Ethiopia	0.0009	Malawi	0.0006	Slovakia	0.0095
Australia	0.0262	Finland	0.0164	Malaysia	0.0068	Slovenia	0.0099
Austria	0.0114	France	0.0094	Mali	0.0022	South Africa	0.0095
Azerbaijan	0.0068	Gabon	0.0055	Mauritania	0.0056	South Korea	0.0110
Bangladesh	0.0009	Gambia	0.0055	Mexico	0.0054	Spain	0.0099
Belarus	0.0071	Georgia	0.0022	Moldova	0.0025	Sri Lanka	0.0013
Belgium	0.0142	Germany	0.0124	Mongolia	0.0116	Sudan	0.0037
Benin	0.0014	Ghana	0.0012	Morocco	0.0021	Sweden	0.0079
Bolivia	0.0047	Greece	0.0124	Mozambique	0.0011	Switzerland	0.0071
Botswana	0.0065	Guatemala	0.0024	Namibia	0.0051	Syria	0.0040
Brazil	0.0049	Guinea	0.0020	Nepal	0.0013	Tajikistan	0.0016
Bulgaria	0.0087	Guinea Bis.	0.0016	Netherlands	0.0133	Tanzania	0.0019
Burkina Faso	0.0019	Hondura	0.0020	New Zealand	0.0189	Thailand	0.0043
Burundi	0.0004	Hungary	0.0083	Nicaragua	0.0025	Togo	0.0015
C. African R.	0.0067	India	0.0019	Niger	0.0010	Tunisia	0.0033
Cambodia	0.0058	Indonesia	0.0024	Nigeria	0.0016	Turkey	0.0040
Cameroon	0.0024	Iran	0.0075	Norway	0.0119	UAE	0.0368
Canada	0.0238	Ireland	0.0171	Oman	0.0129	Uganda	0.0011
Chad	0.0024	Israel	0.0118	Pakistan	0.0021	UK	0.0112
Chile	0.0053	Italy	0.0100	Panama	0.0036	Ukraine	0.0086
China	0.0039	Japan	0.0106	Papua N.G.	0.0017	Uruguay	0.0076
Colombia	0.0038	Jordan	0.0049	Paraguay	0.0061	USA	0.0239
Congo	0.0032	Kazakhstan	0.0110	Peru	0.0027	Uzbekistan	0.0073
Cote d'Ivoire	0.0020	Kenya	0.0016	Philippines	0.0017	Venezuela	0.0099
Croatia	0.0066	Kuwait	0.0304	Poland	0.0100	Vietnam	0.0017
Czech Rep.	0.0145	Kyrgyzstan	0.0019	Portugal	0.0080	Yemen	0.0016
D.R. Congo	0.0010	Laos	0.0019	Romania	0.0068	Zambia	0.0026
Denmark	0.0140	Latvia	0.0046	Russia	0.0141	Zimbabwe	0.0027

### Descriptive Statistics - based on most recent data

Available	128	Mean	0.0066	Min	0.0004	Std. Deviation	0.0063	5 Percentile	0.0010
Missing	0	Median	0.0049	Max	0.0368			95 Percentile	0.0169

## Normalization

Type SB (smaller is better)

Parameters U=0.0057

T=0.0368

Comments T=average of EU-14 reduced by 30% (according to EU target of 2020)

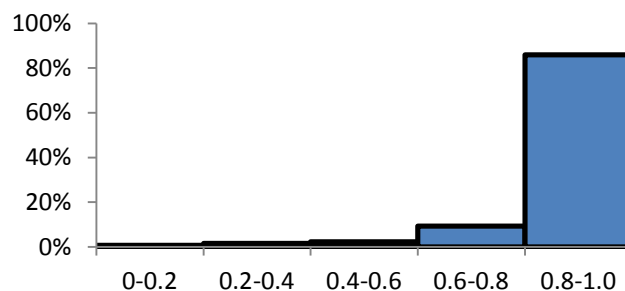
U=max

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	0.9990	Saudi Arabia	0.6527
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.9968	Senegal	1.0000
Argentina	0.9325	Estonia	0.6926	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	0.8792
Australia	0.3404	Finland	0.6548	Malaysia	0.9646	Slovenia	0.8662
Austria	0.8156	France	0.8824	Mali	1.0000	South Africa	0.8778
Azerbaijan	0.9646	Gabon	1.0000	Mauritania	1.0000	South Korea	0.8296
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	0.8640
Belarus	0.9554	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	0.7255	Germany	0.7844	Mongolia	0.8103	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	0.9311
Bolivia	1.0000	Greece	0.7838	Mozambique	1.0000	Switzerland	0.9537
Botswana	0.9743	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.9110	Guinea Bis.	1.0000	Netherlands	0.7557	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	0.5778	Thailand	1.0000
Burundi	1.0000	Hungary	0.9186	Nicaragua	1.0000	Togo	1.0000
C. African R.	0.9678	India	1.0000	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9968	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	0.9421	Norway	0.8027	UAE	0.0000
Canada	0.4170	Ireland	0.6318	Oman	0.7685	Uganda	1.0000
Chad	1.0000	Israel	0.8039	Pakistan	1.0000	UK	0.8228
Chile	1.0000	Italy	0.8612	Panama	1.0000	Ukraine	0.9076
China	1.0000	Japan	0.8430	Papua N.G.	1.0000	Uruguay	0.9389
Colombia	1.0000	Jordan	1.0000	Paraguay	0.9871	USA	0.4145
Congo	1.0000	Kazakhstan	0.8296	Peru	1.0000	Uzbekistan	0.9486
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	0.8650
Croatia	0.9721	Kuwait	0.2058	Poland	0.8636	Vietnam	1.0000
Czech Rep.	0.7208	Kyrgyzstan	1.0000	Portugal	0.9225	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	0.9635	Zambia	1.0000
Denmark	0.7465	Latvia	1.0000	Russia	0.7308	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9154	Min	0.0000	Std. Deviation	0.1644	5 Percentile	0.6391
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





## Indicator: Hazardous waste generation

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Waste found in streams to be controlled according to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal. Reduction of hazardous waste improves land sustainability.

**Sources:** Esty et al. (2005)

United Nations Environment Programme/United Nations Statistics Division ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1540](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1540)) ([http://unstats.un.org/unsd/environment/Questionnaires/country\\_snapshots.htm](http://unstats.un.org/unsd/environment/Questionnaires/country_snapshots.htm))

**Period:** 1990-2005

**Units:** tons of hazardous waste per capita per year

### Most recent data

Albania	0.0001	Ecuador	0.0065	Lebanon	0.0315	Rwanda	-
Algeria	0.0102	Egypt	0.0023	Lithuania	0.0326	Saudi Arabia	0.0099
Angola	0.0000*	El Salvador	-	Macedonia, FYR	0.0074	Senegal	-
Argentina	0.0000*	Estonia	4.3561	Madagascar	0.0001	Sierra Leone	-
Armenia	0.1800	Ethiopia	-	Malawi	0.0497	Slovakia	0.2595
Australia	0.0243	Finland	0.0944	Malaysia	0.0166	Slovenia	0.0330
Austria	0.1215	France	0.1535	Mali	-	South Africa	-
Azerbaijan	0.0013	Gabon	-	Mauritania	-	South Korea	0.0591
Bangladesh	-	Gambia	0.1318	Mexico	0.0378	Spain	0.0864
Belarus	0.0157	Georgia	0.3663	Moldova	0.0002	Sri Lanka	0.0022
Belgium	0.1980	Germany	0.2127	Mongolia	1.7424	Sudan	-
Benin	0.0002	Ghana	-	Morocco	0.0043	Sweden	0.0158
Bolivia	-	Greece	0.0260	Mozambique	-	Switzerland	0.1423
Botswana	0.0050	Guatemala	-	Namibia	-	Syria	0.0000
Brazil	0.0164	Guinea	-	Nepal	0.0000	Tajikistan	-
Bulgaria	0.0975	Guinea Bis.	-	Netherlands	0.0949	Tanzania	-
Burkina Faso	-	Hondura	-	New Zealand	0.1304	Thailand	0.0053
Burundi	-	Hungary	0.3561	Nicaragua	-	Togo	-
C. African R.	-	India	0.0039*	Niger	0.0397	Tunisia	0.0154
Cambodia	-	Indonesia	0.0001	Nigeria	0.0000	Turkey	0.0168
Cameroon	-	Iran	-	Norway	0.1372	UAE	0.0504
Canada	0.2093	Ireland	0.0997	Oman	0.0943	Uganda	0.0000
Chad	-	Israel	0.0500	Pakistan	0.0104	UK	0.0883
Chile	-	Italy	0.0713	Panama	-	Ukraine	1.3261
China	0.0089	Japan	0.0210	Papua N.G.	-	Uruguay	-
Colombia	-	Jordan	0.0062	Paraguay	-	USA	0.1301
Congo	-	Kazakhstan	0.0066	Peru	0.0005	Uzbekistan	1.0881
Cote d'Ivoire	-	Kenya	-	Philippines	-	Venezuela	-
Croatia	0.0095	Kuwait	0.0097	Poland	0.0416	Vietnam	-
Czech Rep.	0.2327	Kyrgyzstan	1.2586	Portugal	0.0590	Yemen	0.0025
D.R. Congo	-	Laos	-	Romania	0.1000	Zambia	0.0007
Denmark	0.0726	Latvia	0.0403	Russia	0.7386	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	83	Mean	0.1829	Min	0.0000	Std. Deviation	0.5532	5 Percentile	0.0000
Missing	45	Median	0.0326	Max	4.3561			95 Percentile	1.0532

## Normalization

Type *SB (smaller is better)*

Parameters

$U=0.0000$

$T=1.0881$

Comments

$T=\text{minimum possible}$

$U=\text{max (excluding 5%outliers)}$

## Smoothed data

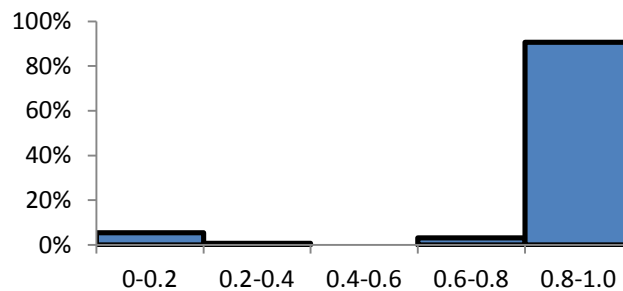
Albania	0.9999	Ecuador	0.9940	Lebanon	0.9711	Rwanda	0.9999**
Algeria	0.9906	Egypt	0.9979	Lithuania	0.9700	Saudi Arabia	0.9909
Angola	1.0000*	El Salvador	0.9998**	Macedonia, FYR	0.9932	Senegal	0.8789**
Argentina	1.0000*	Estonia	0.0000	Madagascar	0.9999	Sierra Leone	0.8789**
Armenia	0.8346	Ethiopia	0.9771**	Malawi	0.9543	Slovakia	0.7577
Australia	0.9776	Finland	0.9133	Malaysia	0.9847	Slovenia	0.9697
Austria	0.8884	France	0.8589	Mali	0.9635**	South Africa	0.9847**
Azerbaijan	0.9988	Gabon	1.0000**	Mauritania	0.9635**	South Korea	0.9478
Bangladesh	0.9964**	Gambia	0.8789	Mexico	0.9412	Spain	0.9206
Belarus	0.9856	Georgia	0.6634	Moldova	0.9998	Sri Lanka	0.9980
Belgium	0.8180	Germany	0.8324	Mongolia	0.0000	Sudan	0.9960**
Benin	0.9998	Ghana	0.9999**	Morocco	0.9960	Sweden	0.9855
Bolivia	0.9948**	Greece	0.9761	Mozambique	0.9771**	Switzerland	0.8692
Botswana	0.9954	Guatemala	0.9922**	Namibia	1.0000**	Syria	1.0000
Brazil	0.9849	Guinea	0.8789**	Nepal	1.0000	Tajikistan	0.0000**
Bulgaria	0.9104	Guinea Bis.	0.8789**	Netherlands	0.9259	Tanzania	0.9994**
Burkina Faso	0.8789**	Hondura	0.9998**	New Zealand	0.8802	Thailand	0.9951
Burundi	1.0000**	Hungary	0.6727	Nicaragua	0.9922**	Togo	1.0000**
C. African R.	1.0000**	India	0.9964*	Niger	0.9635	Tunisia	0.9858
Cambodia	0.9999**	Indonesia	0.9999	Nigeria	1.0000	Turkey	0.9846
Cameroon	1.0000**	Iran	0.0000**	Norway	0.8739	UAE	0.9537
Canada	0.8077	Ireland	0.9084	Oman	0.9133	Uganda	1.0000
Chad	0.9635**	Israel	0.9540	Pakistan	0.9904	UK	0.9188
Chile	0.9711**	Italy	0.9457	Panama	0.9998**	Ukraine	0.0000
China	0.9918	Japan	0.9807	Papua N.G.	0.9972**	Uruguay	0.9998**
Colombia	0.9540**	Jordan	0.9943	Paraguay	0.9998**	USA	0.8170
Congo	1.0000**	Kazakhstan	0.9939	Peru	0.9995	Uzbekistan	0.0000
Cote d'Ivoire	0.8789**	Kenya	0.9771**	Philippines	0.9999**	Venezuela	0.9940**
Croatia	0.9913	Kuwait	0.9911	Poland	0.9617	Vietnam	0.8789**
Czech Rep.	0.7861	Kyrgyzstan	0.0000	Portugal	0.9458	Yemen	0.9977
D.R. Congo	1.0000**	Laos	0.9990**	Romania	0.9081	Zambia	0.9994
Denmark	0.9333	Latvia	0.9630	Russia	0.3212	Zimbabwe	0.9772**

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8970	Min	0.0000	Std. Deviation	0.2328	5 Percentile	0.1124
Missing	0	Median	0.9826	Max	1.0000			95 Percentile	1.0000



**Indicator: HIV/AIDS prevalence****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Prevalence of HIV refers to the percentage of people ages 15-49 who are infected with HIV.**Sources:** World Health Organization[http://www.who.int/whosis/database/core/core\\_select.cfm](http://www.who.int/whosis/database/core/core_select.cfm)**Period:** 1990-2005**Units:** percent of population aged 15-49**Most recent data**

Albania	-	Ecuador	0.3000	Lebanon	0.1000	Rwanda	5.1000
Algeria	0.1000	Egypt	0.1000	Lithuania	0.1000	Saudi Arabia	-
Angola	3.9000	El Salvador	0.7000	Macedonia, FYR	0.1000	Senegal	0.8000
Argentina	0.7000	Estonia	1.1000	Madagascar	1.7000	Sierra Leone	1.3610
Armenia	0.1000	Ethiopia	4.4000	Malawi	14.2000	Slovakia	0.1000
Australia	0.1000	Finland	0.1000	Malaysia	0.4000	Slovenia	0.1000
Austria	0.3000	France	0.4000	Mali	1.9000	South Africa	15.6000
Azerbaijan	0.1000	Gabon	8.1000	Mauritania	0.6000	South Korea	0.1000
Bangladesh	0.0000*	Gambia	1.2000	Mexico	0.3000	Spain	0.7000
Belarus	0.2420	Georgia	0.1000	Moldova	0.2000	Sri Lanka	0.1000
Belgium	0.2000	Germany	0.1000	Mongolia	0.1000	Sudan	2.3000
Benin	1.9000	Ghana	3.1000	Morocco	0.1000	Sweden	0.1000
Bolivia	0.1000	Greece	0.2000	Mozambique	12.2000	Switzerland	0.4000
Botswana	37.3000	Guatemala	1.1000	Namibia	21.3000	Syria	0.1000
Brazil	0.7000	Guinea	3.2000	Nepal	0.5000	Tajikistan	0.1000
Bulgaria	0.1000	Guinea Bis.	3.4830	Netherlands	0.2000	Tanzania	8.8000
Burkina Faso	1.8000	Hondura	1.8000	New Zealand	0.1000	Thailand	1.5000
Burundi	6.0000	Hungary	0.1000	Nicaragua	0.2000	Togo	4.1000
C. African R.	13.5000	India	0.9000	Niger	1.2000	Tunisia	0.1000
Cambodia	2.6000	Indonesia	0.1000	Nigeria	5.4000	Turkey	-
Cameroon	6.9000	Iran	0.1000	Norway	0.1000	UAE	-
Canada	0.3000	Ireland	0.1000	Oman	0.1000	Uganda	4.1000
Chad	4.8000	Israel	0.1000	Pakistan	0.1000	UK	0.2000
Chile	0.3000	Italy	0.5000	Panama	0.9000	Ukraine	1.4000
China	0.1000	Japan	0.1000	Papua N.G.	0.6000	Uruguay	0.3000
Colombia	0.7000	Jordan	0.1000	Paraguay	0.5000	USA	0.6000
Congo	4.9000	Kazakhstan	0.2000	Peru	0.5000	Uzbekistan	0.1000
Cote d'Ivoire	7.0000	Kenya	6.7000	Philippines	0.1000	Venezuela	0.7000
Croatia	0.1000	Kuwait	-	Poland	0.1000	Vietnam	0.4000
Czech Rep.	0.1000	Kyrgyzstan	0.1000	Portugal	0.4000	Yemen	0.1000
D.R. Congo	4.2000	Laos	0.1000	Romania	0.1000	Zambia	15.6000
Denmark	0.2000	Latvia	0.6000	Russia	1.1000	Zimbabwe	24.6000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	123	Mean	2.3877	Min	0.0000	Std. Deviation	5.2479	5 Percentile	0.1000
Missing	5	Median	0.4000	Max	37.3000			95 Percentile	13.3700

## Normalization

Type SB (smaller is better)

Parameters

U=0.0000

T=1.8000

Comments T=minimum possible

U=twice the upper bound of 0.9% provided by the Joint Nations Programme on HIV/AIDS on the average HIV prevalence rate

## Smoothed data

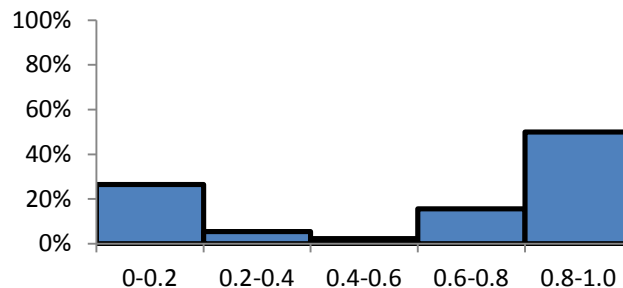
Albania	0.9444**	Ecuador	0.8333	Lebanon	0.9444	Rwanda	0.0000
Algeria	0.9444	Egypt	0.9444	Lithuania	0.9444	Saudi Arabia	0.7778**
Angola	0.0000	El Salvador	0.6111	Macedonia, FYR	0.9444	Senegal	0.5556
Argentina	0.6111	Estonia	0.3889	Madagascar	0.0556	Sierra Leone	0.2439
Armenia	0.9444	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.9444
Australia	0.9444	Finland	0.9444	Malaysia	0.7778	Slovenia	0.9444
Austria	0.8333	France	0.7778	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.9444	Gabon	0.0000	Mauritania	0.6667	South Korea	0.9444
Bangladesh	1.0000*	Gambia	0.3333	Mexico	0.8333	Spain	0.6111
Belarus	0.8656	Georgia	0.9444	Moldova	0.8889	Sri Lanka	0.9444
Belgium	0.8889	Germany	0.9444	Mongolia	0.9444	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.9444	Sweden	0.9444
Bolivia	0.9444	Greece	0.8889	Mozambique	0.0000	Switzerland	0.7778
Botswana	0.0000	Guatemala	0.3889	Namibia	0.0000	Syria	0.9444
Brazil	0.6111	Guinea	0.0000	Nepal	0.7222	Tajikistan	0.9444
Bulgaria	0.9444	Guinea Bis.	0.0000	Netherlands	0.8889	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	0.9444	Thailand	0.1667
Burundi	0.0000	Hungary	0.9444	Nicaragua	0.8889	Togo	0.0000
C. African R.	0.0000	India	0.5000	Niger	0.3333	Tunisia	0.9444
Cambodia	0.0000	Indonesia	0.9444	Nigeria	0.0000	Turkey	0.9444**
Cameroon	0.0000	Iran	0.9444	Norway	0.9444	UAE	0.9444**
Canada	0.8333	Ireland	0.9444	Oman	0.9444	Uganda	0.0000
Chad	0.0000	Israel	0.9444	Pakistan	0.9444	UK	0.8889
Chile	0.8333	Italy	0.7222	Panama	0.5000	Ukraine	0.2222
China	0.9444	Japan	0.9444	Papua N.G.	0.6667	Uruguay	0.8333
Colombia	0.6111	Jordan	0.9444	Paraguay	0.7222	USA	0.6667
Congo	0.0000	Kazakhstan	0.8889	Peru	0.7222	Uzbekistan	0.9444
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.9444	Venezuela	0.6111
Croatia	0.9444	Kuwait	0.9444**	Poland	0.9444	Vietnam	0.7778
Czech Rep.	0.9444	Kyrgyzstan	0.9444	Portugal	0.7778	Yemen	0.9444
D.R. Congo	0.0000	Laos	0.9444	Romania	0.9444	Zambia	0.0000
Denmark	0.8889	Latvia	0.6667	Russia	0.3889	Zimbabwe	0.0000

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6037	Min	0.0000	Std. Deviation	0.3944	5 Percentile	0.0000
Missing	0	Median	0.8056	Max	1.0000			95 Percentile	0.9444



**Indicator: Hospital beds****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Hospital beds include inpatient beds available in public, private, general, and specialized hospitals and rehabilitation centers. In most cases beds for both acute and chronic care are included.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** number of beds per thousand people**Most recent data**

Albania	3.2633	Ecuador	1.5508	Lebanon	2.7000	Rwanda	1.6520
Algeria	2.1000	Egypt	2.1000	Lithuania	9.2218	Saudi Arabia	2.3000
Angola	1.2913	El Salvador	1.6474	Macedonia, FYR	4.8300	Senegal	0.4017
Argentina	3.2880	Estonia	6.7150	Madagascar	0.4200	Sierra Leone	0.4000
Armenia	4.2505	Ethiopia	0.2415	Malawi	1.3412	Slovakia	7.8000
Australia	7.9000	Finland	7.5000	Malaysia	2.0077	Slovenia	5.1636
Austria	8.6000	France	8.2000	Mali	0.2400	South Africa	2.8000
Azerbaijan	8.5068	Gabon	3.1938	Mauritania	0.6654	South Korea	6.1000
Bangladesh	0.3049	Gambia	0.6109	Mexico	1.1000	Spain	4.1000
Belarus	12.5772	Georgia	4.2955	Moldova	5.8875	Sri Lanka	2.7435
Belgium	7.3000	Germany	9.1000	Mongolia	11.4865	Sudan	1.0880
Benin	0.2336	Ghana	1.4600	Morocco	0.9800	Sweden	3.6000
Bolivia	1.6671	Greece	4.9000	Mozambique	0.8671	Switzerland	17.9000
Botswana	1.5752	Guatemala	0.9794	Namibia	1.9000	Syria	1.4000
Brazil	3.1102	Guinea	0.5507	Nepal	0.1726	Tajikistan	6.3977
Bulgaria	7.2010	Guinea Bis.	1.4779	Netherlands	10.8000	Tanzania	0.8903
Burkina Faso	1.4156	Hondura	1.0649	New Zealand	6.2000	Thailand	1.9935
Burundi	0.6631	Hungary	8.2000	Nicaragua	1.4803	Togo	1.5111
C. African R.	0.8732	India	0.7870	Niger	0.1167	Tunisia	1.7000
Cambodia	2.0721	Indonesia	0.6601	Nigeria	1.6682	Turkey	2.6000
Cameroon	2.5533	Iran	1.6000	Norway	14.6000	UAE	2.6400
Canada	3.9000	Ireland	9.7000	Oman	2.2000	Uganda	0.9162
Chad	0.7201	Israel	6.1553	Pakistan	0.6515	UK	4.1000
Chile	2.6664	Italy	4.9000	Panama	2.2068	Ukraine	8.7403
China	2.4500	Japan	16.5000	Papua N.G.	4.0242	Uruguay	4.3909
Colombia	1.4553	Jordan	1.8000	Paraguay	1.3437	USA	3.6000
Congo	3.3500	Kazakhstan	7.0177	Peru	1.4695	Uzbekistan	5.3404
Cote d'Ivoire	0.8116	Kenya	1.6472	Philippines	1.0711	Venezuela	1.4673
Croatia	5.9985	Kuwait	2.7600	Poland	4.9000	Vietnam	1.6723
Czech Rep.	8.8000	Kyrgyzstan	5.5000	Portugal	4.0000	Yemen	0.6000
D.R. Congo	1.4268	Laos	2.5698	Romania	7.4922	Zambia	2.2000
Denmark	4.5000	Latvia	8.2029	Russia	10.8305	Zimbabwe	0.5105

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.7344	Min	0.1167	Std. Deviation	3.5182	5 Percentile	0.4006
Missing	0	Median	2.3750	Max	17.9000			95 Percentile	10.4150

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.1167$   $\tau=7.5667$

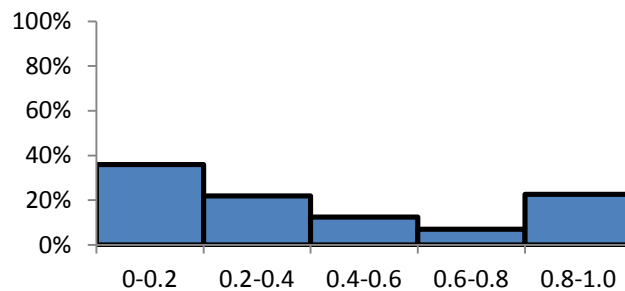
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.4220	Ecuador	0.1925	Lebanon	0.3467	Rwanda	0.2061
Algeria	0.2662	Egypt	0.2636	Lithuania	1.0000	Saudi Arabia	0.2931
Angola	0.1577	El Salvador	0.2055	Macedonia, FYR	0.6327	Senegal	0.0412
Argentina	0.5428	Estonia	0.8857	Madagascar	0.0407	Sierra Leone	0.0380
Armenia	0.5549	Ethiopia	0.0168	Malawi	0.1644	Slovakia	0.9829
Australia	1.0000	Finland	0.9911	Malaysia	0.2538	Slovenia	0.6774
Austria	1.0000	France	1.0000	Mali	0.0166	South Africa	0.3602
Azerbaijan	1.0000	Gabon	0.4130	Mauritania	0.0737	South Korea	0.8031
Bangladesh	0.0254	Gambia	0.0663	Mexico	0.1320	Spain	0.5347
Belarus	1.0000	Georgia	0.5609	Moldova	0.7746	Sri Lanka	0.3526
Belgium	0.9642	Germany	1.0000	Mongolia	1.0000	Sudan	0.1304
Benin	0.0157	Ghana	0.1803	Morocco	0.1159	Sweden	0.4676
Bolivia	0.2081	Greece	0.6421	Mozambique	0.1007	Switzerland	1.0000
Botswana	0.1958	Guatemala	0.1158	Namibia	0.2394	Syria	0.1782
Brazil	0.4298	Guinea	0.0583	Nepal	0.0075	Tajikistan	0.8431
Bulgaria	0.9509	Guinea Bis.	0.1827	Netherlands	1.0000	Tanzania	0.1038
Burkina Faso	0.1743	Hondura	0.1128	New Zealand	0.8166	Thailand	0.2519
Burundi	0.0733	Hungary	1.0000	Nicaragua	0.1830	Togo	0.1872
C. African R.	0.1015	India	0.0900	Niger	0.0041	Tunisia	0.2583
Cambodia	0.2625	Indonesia	0.0729	Nigeria	0.2083	Turkey	0.3333
Cameroon	0.3271	Iran	0.1991	Norway	1.0000	UAE	0.3575
Canada	0.5078	Ireland	1.0000	Oman	0.2796	Uganda	0.1073
Chad	0.0810	Israel	0.8097	Pakistan	0.0713	UK	0.5347
Chile	0.3422	Italy	0.6421	Panama	0.3157	Ukraine	1.0000
China	0.3132	Japan	1.0000	Papua N.G.	0.5245	Uruguay	0.5737
Colombia	0.1688	Jordan	0.2183	Paraguay	0.1245	USA	0.4676
Congo	0.4340	Kazakhstan	0.9263	Peru	0.1733	Uzbekistan	0.7012
Cote d'Ivoire	0.0933	Kenya	0.2054	Philippines	0.1539	Venezuela	0.1818
Croatia	0.7895	Kuwait	0.3548	Poland	0.6421	Vietnam	0.2088
Czech Rep.	1.0000	Kyrgyzstan	0.7226	Portugal	0.5213	Yemen	0.0649
D.R. Congo	0.1759	Laos	0.3293	Romania	0.9900	Zambia	0.2796
Denmark	0.5884	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.0529

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4305	Min	0.0041	Std. Deviation	0.3415	5 Percentile	0.0390
Missing	0	Median	0.3145	Max	1.0000			95 Percentile	1.0000



## Indicator: ICT expenditure

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Response

**Explanation:** Information and communications technology expenditures include computer hardware (computers, storage devices, printers, and other peripherals); computer software (operating systems, programming tools, utilities, applications, and internal software development); computer services (information technology consulting, computer and network systems integration, web hosting, data processing services, and other services); communications services (voice and data communications services); and wired and wireless communications equipment.

**Sources:** World Bank (2007)

**Period:** 1990-2005

**Units:** percent of GDP

### Most recent data

Albania	0.0000*	Ecuador	3.6558	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	3.0000*	Egypt	1.2183	Lithuania	7.3000*	Saudi Arabia	2.5051
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	7.4488
Argentina	5.6780	Estonia	9.7000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000*	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	5.2920
Australia	5.9370	Finland	6.8818	Malaysia	6.9080	Slovenia	5.8000*
Austria	5.3179	France	5.8704	Mali	0.0000*	South Africa	8.0407
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	6.6673
Bangladesh	2.6536	Gambia	0.0000*	Mexico	3.1212	Spain	3.7861
Belarus	0.0000*	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	5.7327
Belgium	5.5029	Germany	5.6572	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	5.6165	Sweden	7.0215
Bolivia	5.8094	Greece	4.2618	Mozambique	0.0000*	Switzerland	7.2318
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	6.9101	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	3.9254	Guinea Bis.	0.0000*	Netherlands	6.3727	Tanzania	0.0000*
Burkina Faso	0.0000*	Hondura	4.5386	New Zealand	9.9940	Thailand	3.5357
Burundi	0.0000*	Hungary	6.1138	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	3.7439	Niger	0.0000*	Tunisia	5.2358
Cambodia	0.0000*	Indonesia	3.3836	Nigeria	3.0000*	Turkey	7.3483
Cameroon	4.8964	Iran	2.2385	Norway	5.1220	UAE	-
Canada	5.8147	Ireland	3.8739	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	7.8757	Pakistan	7.2794	UK	7.3470
Chile	6.6710	Italy	4.1428	Panama	9.1523	Ukraine	7.1296
China	5.2782	Japan	7.3833	Papua N.G.	0.0000*	Uruguay	7.0700
Colombia	9.0041	Jordan	8.8133	Paraguay	0.0000*	USA	8.7900
Congo	0.0000*	Kazakhstan	0.0000*	Peru	6.8694	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	3.1122	Philippines	5.8124	Venezuela	5.1942
Croatia	-	Kuwait	1.7452	Poland	4.5294	Vietnam	6.0000*
Czech Rep.	6.5513	Kyrgyzstan	0.0000*	Portugal	4.2469	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	2.8114	Zambia	0.0000
Denmark	5.6547	Latvia	9.9000*	Russia	3.6615	Zimbabwe	4.0000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	126	Mean	3.2198	Min	0.0000	Std. Deviation	3.1841	5 Percentile	0.0000
Missing	2	Median	3.1167	Max	9.9940			95 Percentile	8.6027

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=5.7360$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

## Smoothed data

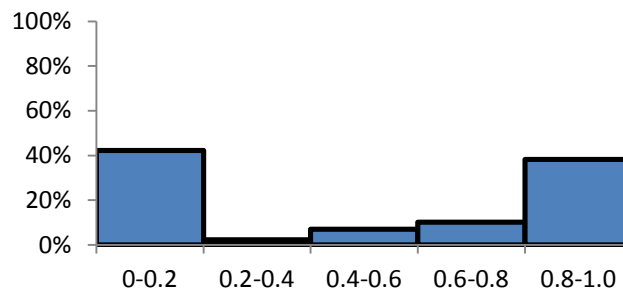
Albania	0.0000*	Ecuador	0.6373	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.5230*	Egypt	0.2124	Lithuania	1.0000*	Saudi Arabia	0.4416
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	1.0000
Argentina	0.9821	Estonia	1.0000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000*	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.9226
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000*
Austria	0.9271	France	1.0000	Mali	0.0000*	South Africa	1.0000
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	1.0000
Bangladesh	0.4626	Gambia	0.0000*	Mexico	0.5318	Spain	0.6692
Belarus	0.0000*	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.9994
Belgium	0.9593	Germany	0.9863	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.9296	Sweden	1.0000
Bolivia	1.0000	Greece	0.7466	Mozambique	0.0000*	Switzerland	1.0000
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	1.0000	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.7041	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000*
Burkina Faso	0.0000*	Hondura	0.7912	New Zealand	1.0000	Thailand	0.6187
Burundi	0.0000*	Hungary	1.0000	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	0.6454	Niger	0.0000*	Tunisia	0.9128
Cambodia	0.0000*	Indonesia	0.5899	Nigeria	0.5230*	Turkey	1.0000
Cameroon	0.8536	Iran	0.3903	Norway	0.8929	UAE	0.4949**
Canada	1.0000	Ireland	0.6754	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	1.0000	Pakistan	1.0000	UK	1.0000
Chile	1.0000	Italy	0.7223	Panama	1.0000	Ukraine	1.0000
China	0.9202	Japan	1.0000	Papua N.G.	0.0000*	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	0.0000*	USA	1.0000
Congo	0.0000*	Kazakhstan	0.0000*	Peru	1.0000	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.5426	Philippines	1.0000	Venezuela	0.9055
Croatia	1.0000**	Kuwait	0.3177	Poland	0.7833	Vietnam	1.0000*
Czech Rep.	1.0000	Kyrgyzstan	0.0000*	Portugal	0.7413	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	0.4949	Zambia	0.0000
Denmark	0.9858	Latvia	1.0000*	Russia	0.6414	Zimbabwe	0.7699

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4910	Min	0.0000	Std. Deviation	0.4500	5 Percentile	0.0000
Missing	0	Median	0.5372	Max	1.0000			95 Percentile	1.0000





**Indicator: Immunization against DPT****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** Percent of one-year-old infants immunized diphtheria-pertussis-tetanus (DPT).**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** percent of infants**Most recent data**

Albania	97.0000	Ecuador	89.0000	Lebanon	92.0000	Rwanda	96.0000
Algeria	87.0000	Egypt	98.0000	Lithuania	94.0000	Saudi Arabia	95.0000
Angola	46.0000	El Salvador	88.0000	Macedonia, FYR	96.0000	Senegal	73.0000
Argentina	88.0000	Estonia	94.0000	Madagascar	55.0000	Sierra Leone	70.0000
Armenia	94.0000	Ethiopia	56.0000	Malawi	84.0000	Slovakia	99.0000
Australia	92.0000	Finland	98.0000	Malaysia	96.0000	Slovenia	92.0000
Austria	84.0000	France	97.0000	Mali	69.0000	South Africa	94.0000
Azerbaijan	97.0000	Gabon	38.0000	Mauritania	76.0000	South Korea	97.0000
Bangladesh	85.0000	Gambia	90.0000	Mexico	91.0000	Spain	98.0000
Belarus	86.0000	Georgia	76.0000	Moldova	98.0000	Sri Lanka	99.0000
Belgium	90.0000	Germany	89.0000	Mongolia	98.0000	Sudan	50.0000
Benin	88.0000	Ghana	80.0000	Morocco	91.0000	Sweden	98.0000
Bolivia	81.0000	Greece	88.0000	Mozambique	72.0000	Switzerland	95.0000
Botswana	97.0000	Guatemala	83.0000	Namibia	82.0000	Syria	99.0000
Brazil	96.0000	Guinea	45.0000	Nepal	78.0000	Tajikistan	82.0000
Bulgaria	96.0000	Guinea Bis.	77.0000	Netherlands	98.0000	Tanzania	95.0000
Burkina Faso	84.0000	Hondura	92.0000	New Zealand	90.0000	Thailand	96.0000
Burundi	74.0000	Hungary	99.0000	Nicaragua	86.0000	Togo	64.0000
C. African R.	40.0000	India	70.0000	Niger	52.0000	Tunisia	95.0000
Cambodia	69.0000	Indonesia	70.0000	Nigeria	25.0000	Turkey	68.0000
Cameroon	73.0000	Iran	99.0000	Norway	90.0000	UAE	94.0000
Canada	91.0000	Ireland	85.0000	Oman	99.0000	Uganda	81.0000
Chad	47.0000	Israel	97.0000	Pakistan	67.0000	UK	91.0000
Chile	99.0000	Italy	96.0000	Panama	86.0000	Ukraine	97.0000
China	90.0000	Japan	97.0000	Papua N.G.	54.0000	Uruguay	91.0000
Colombia	91.0000	Jordan	97.0000	Paraguay	77.0000	USA	96.0000
Congo	50.0000	Kazakhstan	99.0000	Peru	89.0000	Uzbekistan	98.0000
Cote d'Ivoire	54.0000	Kenya	73.0000	Philippines	79.0000	Venezuela	68.0000
Croatia	94.0000	Kuwait	99.0000	Poland	99.0000	Vietnam	99.0000
Czech Rep.	97.0000	Kyrgyzstan	98.0000	Portugal	99.0000	Yemen	66.0000
D.R. Congo	49.0000	Laos	50.0000	Romania	97.0000	Zambia	80.0000
Denmark	96.0000	Latvia	98.0000	Russia	98.0000	Zimbabwe	80.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	84.0625	Min	25.0000	Std. Deviation	16.4885	5 Percentile	49.3500
Missing	0	Median	90.0000	Max	99.0000			95 Percentile	99.0000

## Normalization

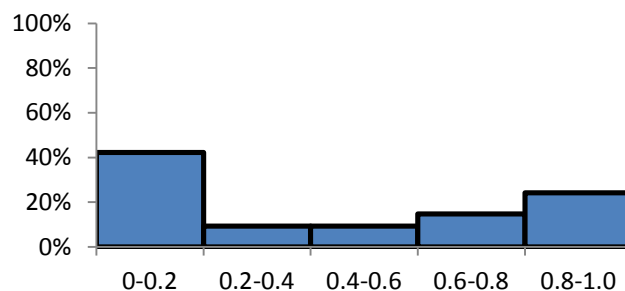
Type *LB (larger is better)* Parameters  $u=84.0000$   $\tau=100.0000$   
 Comments  $u=\text{minimum of EU-14}$   $r=\text{maximum possible}$

## Smoothed data

Albania	0.8272	Ecuador	0.3022	Lebanon	0.5003	Rwanda	0.1652
Algeria	0.1875	Egypt	0.8750	Lithuania	0.6250	Saudi Arabia	0.6893
Angola	0.0000	El Salvador	0.2326	Macedonia, FYR	0.6656	Senegal	0.0000
Argentina	0.1449	Estonia	0.6250	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.5634	Ethiopia	0.0000	Malawi	0.2366	Slovakia	0.9375
Australia	0.5000	Finland	0.8750	Malaysia	0.7282	Slovenia	0.5000
Austria	0.0000	France	0.8125	Mali	0.0000	South Africa	0.6250
Azerbaijan	0.8125	Gabon	0.0000	Mauritania	0.0000	South Korea	0.8125
Bangladesh	0.0625	Gambia	0.4211	Mexico	0.4310	Spain	0.8750
Belarus	0.1250	Georgia	0.0156	Moldova	0.8630	Sri Lanka	0.9251
Belgium	0.3755	Germany	0.3125	Mongolia	0.8750	Sudan	0.0000
Benin	0.2500	Ghana	0.0000	Morocco	0.4375	Sweden	0.8750
Bolivia	0.0000	Greece	0.2500	Mozambique	0.0000	Switzerland	0.6875
Botswana	0.8125	Guatemala	0.0045	Namibia	0.0000	Syria	0.9268
Brazil	0.7565	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.6721	Guinea Bis.	0.0000	Netherlands	0.8478	Tanzania	0.6875
Burkina Faso	0.0000	Hondura	0.5394	New Zealand	0.3750	Thailand	0.7500
Burundi	0.0000	Hungary	0.9375	Nicaragua	0.1992	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.7126
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0357
Cameroon	0.0000	Iran	0.9170	Norway	0.3750	UAE	0.6250
Canada	0.4375	Ireland	0.0596	Oman	0.9360	Uganda	0.0000
Chad	0.0000	Israel	0.7923	Pakistan	0.0000	UK	0.4375
Chile	0.9373	Italy	0.7500	Panama	0.1250	Ukraine	0.8125
China	0.3750	Japan	0.3125	Papua N.G.	0.0000	Uruguay	0.4718
Colombia	0.4375	Jordan	0.7425	Paraguay	0.0000	USA	0.7500
Congo	0.0000	Kazakhstan	0.9375	Peru	0.3018	Uzbekistan	0.8750
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.6250	Kuwait	0.9375	Poland	0.9375	Vietnam	0.6168
Czech Rep.	0.8125	Kyrgyzstan	0.8750	Portugal	0.8849	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.8259	Zambia	0.0000
Denmark	0.8533	Latvia	0.8584	Russia	0.8750	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3968	Min	0.0000	Std. Deviation	0.3647	5 Percentile	0.0000
Missing	0	Median	0.3750	Max	0.9375			95 Percentile	0.9328



## Indicator: Immunization against measles

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Health

**Tertiary indicator:** State

**Explanation:** Percent of one-year-old infants immunized against measles.

**Sources:** World Bank (2007)

**Period:** 1990-2005

**Units:** percent of infants

### Most recent data

Albania	93.0000	Ecuador	99.0000	Lebanon	96.0000	Rwanda	90.0000
Algeria	84.0000	Egypt	98.0000	Lithuania	98.0000	Saudi Arabia	96.0000
Angola	62.0000	El Salvador	99.0000	Macedonia, FYR	96.0000	Senegal	60.0000
Argentina	97.0000	Estonia	95.0000	Madagascar	55.0000	Sierra Leone	73.0000
Armenia	94.0000	Ethiopia	52.0000	Malawi	77.0000	Slovakia	99.0000
Australia	93.0000	Finland	97.0000	Malaysia	92.0000	Slovenia	94.0000
Austria	79.0000	France	86.0000	Mali	68.0000	South Africa	83.0000
Azerbaijan	98.0000	Gabon	55.0000	Mauritania	71.0000	South Korea	96.0000
Bangladesh	77.0000	Gambia	90.0000	Mexico	96.0000	Spain	97.0000
Belarus	99.0000	Georgia	73.0000	Moldova	96.0000	Sri Lanka	99.0000
Belgium	75.0000	Germany	92.0000	Mongolia	98.0000	Sudan	57.0000
Benin	83.0000	Ghana	80.0000	Morocco	90.0000	Sweden	94.0000
Bolivia	64.0000	Greece	88.0000	Mozambique	77.0000	Switzerland	82.0000
Botswana	90.0000	Guatemala	75.0000	Namibia	70.0000	Syria	98.0000
Brazil	99.0000	Guinea	52.0000	Nepal	75.0000	Tajikistan	89.0000
Bulgaria	96.0000	Guinea Bis.	61.0000	Netherlands	96.0000	Tanzania	97.0000
Burkina Faso	76.0000	Hondura	95.0000	New Zealand	85.0000	Thailand	94.0000
Burundi	75.0000	Hungary	99.0000	Nicaragua	93.0000	Togo	58.0000
C. African R.	35.0000	India	67.0000	Niger	64.0000	Tunisia	90.0000
Cambodia	65.0000	Indonesia	72.0000	Nigeria	35.0000	Turkey	75.0000
Cameroon	61.0000	Iran	99.0000	Norway	84.0000	UAE	94.0000
Canada	95.0000	Ireland	78.0000	Oman	98.0000	Uganda	82.0000
Chad	61.0000	Israel	95.0000	Pakistan	61.0000	UK	80.0000
Chile	99.0000	Italy	83.0000	Panama	83.0000	Ukraine	99.0000
China	84.0000	Japan	99.0000	Papua N.G.	49.0000	Uruguay	95.0000
Colombia	92.0000	Jordan	96.0000	Paraguay	91.0000	USA	93.0000
Congo	50.0000	Kazakhstan	99.0000	Peru	95.0000	Uzbekistan	99.0000
Cote d'Ivoire	56.0000	Kenya	72.0000	Philippines	80.0000	Venezuela	82.0000
Croatia	95.0000	Kuwait	97.0000	Poland	97.0000	Vietnam	93.0000
Czech Rep.	99.0000	Kyrgyzstan	99.0000	Portugal	96.0000	Yemen	66.0000
D.R. Congo	54.0000	Laos	42.0000	Romania	97.0000	Zambia	84.0000
Denmark	96.0000	Latvia	99.0000	Russia	96.0000	Zimbabwe	80.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	83.4531	Min	35.0000	Std. Deviation	15.9950	5 Percentile	52.7000
Missing	0	Median	90.0000	Max	99.0000			95 Percentile	99.0000

## Normalization

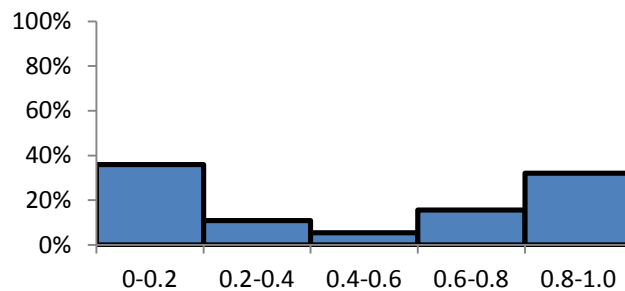
Type *LB (larger is better)* Parameters  $u=75.0000$   $\tau=100.0000$   
 Comments  $u=\text{minimum of EU-14}$   $r=\text{maximum possible}$

## Smoothed data

Albania	0.7425	Ecuador	0.6777	Lebanon	0.8234	Rwanda	0.1658
Algeria	0.3356	Egypt	0.9139	Lithuania	0.9200	Saudi Arabia	0.8175
Angola	0.0086	El Salvador	0.8719	Macedonia, FYR	0.8073	Senegal	0.0143
Argentina	0.7857	Estonia	0.8000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.7158	Ethiopia	0.0000	Malawi	0.0844	Slovakia	0.9593
Australia	0.7200	Finland	0.8800	Malaysia	0.6800	Slovenia	0.7129
Austria	0.1600	France	0.4400	Mali	0.0000	South Africa	0.3200
Azerbaijan	0.9200	Gabon	0.0000	Mauritania	0.0171	South Korea	0.8400
Bangladesh	0.0442	Gambia	0.5997	Mexico	0.8338	Spain	0.8800
Belarus	0.9574	Georgia	0.0000	Moldova	0.8400	Sri Lanka	0.9600
Belgium	0.1404	Germany	0.6800	Mongolia	0.9199	Sudan	0.0000
Benin	0.3200	Ghana	0.2136	Morocco	0.6000	Sweden	0.7600
Bolivia	0.0114	Greece	0.5200	Mozambique	0.0800	Switzerland	0.2741
Botswana	0.6000	Guatemala	0.0457	Namibia	0.0000	Syria	0.9173
Brazil	0.9559	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.5196
Bulgaria	0.8400	Guinea Bis.	0.0000	Netherlands	0.8400	Tanzania	0.8800
Burkina Faso	0.0400	Hondura	0.8184	New Zealand	0.4429	Thailand	0.7600
Burundi	0.0000	Hungary	0.9600	Nicaragua	0.7200	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.6971
Cambodia	0.0000	Indonesia	0.0171	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.9543	Norway	0.3600	UAE	0.7600
Canada	0.8000	Ireland	0.0738	Oman	0.9200	Uganda	0.2800
Chad	0.0000	Israel	0.7988	Pakistan	0.0000	UK	0.2000
Chile	0.9474	Italy	0.3200	Panama	0.3229	Ukraine	0.9591
China	0.3600	Japan	0.9600	Papua N.G.	0.0000	Uruguay	0.7692
Colombia	0.3743	Jordan	0.8367	Paraguay	0.3114	USA	0.7200
Congo	0.0000	Kazakhstan	0.9600	Peru	0.8084	Uzbekistan	0.9395
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.2000	Venezuela	0.3761
Croatia	0.7983	Kuwait	0.8800	Poland	0.8866	Vietnam	0.7200
Czech Rep.	0.9600	Kyrgyzstan	0.9487	Portugal	0.8400	Yemen	0.0114
D.R. Congo	0.0000	Laos	0.0000	Romania	0.8842	Zambia	0.3757
Denmark	0.8612	Latvia	0.9600	Russia	0.8480	Zimbabwe	0.2000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4790	Min	0.0000	Std. Deviation	0.3802	5 Percentile	0.0000
Missing	0	Median	0.5599	Max	0.9600			95 Percentile	0.9592



## Indicator: Imports

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** Shows the cost plus insurance and freight value in U.S. dollars of goods purchased from the rest of the world.

**Sources:** World Bank (2007); CIA (2008)

**Period:** 1990-2005

**Units:** percent of GDP

### Most recent data

Albania	15.4675	Ecuador	25.1528	Lebanon	39.0368	Rwanda	20.1545
Algeria	23.1720	Egypt	25.5944	Lithuania	59.8720	Saudi Arabia	35.7863
Angola	32.1297	El Salvador	29.0460	Macedonia, FYR	53.3906	Senegal	32.7811
Argentina	6.3241	Estonia	83.0069	Madagascar	15.5469	Sierra Leone	15.0101
Armenia	49.7968	Ethiopia	17.3985	Malawi	25.0488	Slovakia	79.5377
Australia	18.0073	Finland	25.1694	Malaysia	49.4964	Slovenia	59.6694
Austria	35.2093	France	20.5788	Mali	37.2840	South Africa	21.5797
Azerbaijan	66.7979	Gabon	54.7043	Mauritania	79.3130	South Korea	30.3256
Bangladesh	12.2199	Gambia	56.0983	Mexico	13.4342	Spain	17.0323
Belarus	70.3611	Georgia	46.3839	Moldova	87.6055	Sri Lanka	35.3462
Belgium	63.3769	Germany	23.5950	Mongolia	81.3931	Sudan	8.2222
Benin	32.6155	Ghana	20.1356	Morocco	28.3378	Sweden	29.2240
Bolivia	25.7404	Greece	27.4415	Mozambique	12.0264	Switzerland	33.4451
Botswana	49.1287	Guatemala	14.5921	Namibia	61.8911	Syria	22.6827
Brazil	6.3546	Guinea	28.0691	Nepal	20.3027	Tajikistan	79.3034
Bulgaria	43.4699	Guinea Bis.	31.8351	Netherlands	48.7623	Tanzania	27.3523
Burkina Faso	30.7302	Hondura	28.3051	New Zealand	26.9943	Thailand	23.5691
Burundi	22.3156	Hungary	41.0546	Nicaragua	20.8316	Togo	55.6886
C. African R.	30.5848	India	7.1853	Niger	20.6855	Tunisia	37.3024
Cambodia	71.2666	Indonesia	20.4866	Nigeria	20.4977	Turkey	16.1020
Cameroon	20.3560	Iran	5.7620	Norway	37.9633	UAE	39.4993
Canada	27.1794	Ireland	49.9646	Oman	40.9265	Uganda	15.2383
Chad	35.3758	Israel	52.3546	Pakistan	22.6666	UK	26.4591
Chile	26.0305	Italy	18.5207	Panama	61.5013	Ukraine	48.2698
China	14.7061	Japan	7.3160	Papua N.G.	51.3548	Uruguay	20.2687
Colombia	11.9934	Jordan	55.4400	Paraguay	31.9707	USA	10.2378
Congo	53.6685	Kazakhstan	44.1535	Peru	15.3258	Uzbekistan	29.5560
Cote d'Ivoire	30.1814	Kenya	25.6451	Philippines	22.3744	Venezuela	20.2446
Croatia	56.8305	Kuwait	48.0125	Poland	26.3510	Vietnam	16.5962
Czech Rep.	65.0234	Kyrgyzstan	42.2412	Portugal	30.8122	Yemen	35.9101
D.R. Congo	24.0315	Laos	7.7014	Romania	38.5276	Zambia	26.6022
Denmark	32.4935	Latvia	56.9496	Russia	20.8362	Zimbabwe	21.5209

### Descriptive Statistics - based on most recent data

Available	128	Mean	33.8728	Min	5.7620	Std. Deviation	18.8240	5 Percentile	8.9277
Missing	0	Median	28.6919	Max	87.6055			95 Percentile	70.9497

## Normalization

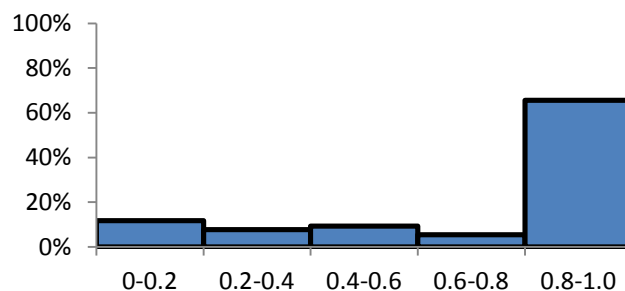
Type *SB (smaller is better)* Parameters *U=32.0457* *T=63.3769*  
 Comments *T=average of EU-14* *U=max of EU-14*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.7769	Rwanda	0.9333
Algeria	1.0000	Egypt	0.9999	Lithuania	0.1134	Saudi Arabia	0.8806
Angola	0.9419	El Salvador	0.8987	Macedonia, FYR	0.2866	Senegal	0.9180
Argentina	1.0000	Estonia	0.0000	Madagascar	0.9864	Sierra Leone	0.8587
Armenia	0.4334	Ethiopia	0.9662	Malawi	0.7643	Slovakia	0.0000
Australia	1.0000	Finland	0.9964	Malaysia	0.4430	Slovenia	0.1555
Austria	0.8990	France	1.0000	Mali	0.8675	South Africa	1.0000
Azerbaijan	0.0000	Gabon	0.3683	Mauritania	0.0326	South Korea	0.9515
Bangladesh	1.0000	Gambia	0.2879	Mexico	0.9954	Spain	0.9993
Belarus	0.0001	Georgia	0.5863	Moldova	0.0003	Sri Lanka	0.8910
Belgium	0.0058	Germany	0.9932	Mongolia	0.0082	Sudan	1.0000
Benin	0.9967	Ghana	1.0000	Morocco	0.9995	Sweden	1.0000
Bolivia	0.9989	Greece	0.9956	Mozambique	1.0000	Switzerland	0.9553
Botswana	0.4548	Guatemala	1.0000	Namibia	0.2217	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	0.0056
Bulgaria	0.4834	Guinea Bis.	0.9973	Netherlands	0.4665	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	0.9946	Thailand	0.4912
Burundi	1.0000	Hungary	0.7125	Nicaragua	1.0000	Togo	0.2464
C. African R.	1.0000	India	1.0000	Niger	1.0000	Tunisia	0.5313
Cambodia	0.0000	Indonesia	0.9672	Nigeria	0.8074	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	0.9730	UAE	0.7621
Canada	1.0000	Ireland	0.4281	Oman	0.8012	Uganda	1.0000
Chad	0.8937	Israel	0.3787	Pakistan	1.0000	UK	1.0000
Chile	0.9959	Italy	1.0000	Panama	0.0712	Ukraine	0.4822
China	1.0000	Japan	1.0000	Papua N.G.	0.3837	Uruguay	1.0000
Colombia	1.0000	Jordan	0.0432	Paraguay	1.0000	USA	1.0000
Congo	0.3103	Kazakhstan	0.6136	Peru	1.0000	Uzbekistan	1.0000
Cote d'Ivoire	0.9780	Kenya	0.9785	Philippines	1.0000	Venezuela	1.0000
Croatia	0.2270	Kuwait	0.4904	Poland	0.9947	Vietnam	0.6691
Czech Rep.	0.0000	Kyrgyzstan	0.5516	Portugal	1.0000	Yemen	0.8767
D.R. Congo	0.9981	Laos	1.0000	Romania	0.7931	Zambia	1.0000
Denmark	0.9857	Latvia	0.2394	Russia	0.9789	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7536	Min	0.0000	Std. Deviation	0.3477	5 Percentile	0.0022
Missing	0	Median	0.9787	Max	1.0000			95 Percentile	1.0000



**Indicator: Infant mortality rate****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Number of infants who die before reaching one year of age, expressed per thousand live births in a given year.**Sources:** World Health Organization[http://www.who.int/whosis/database/core/core\\_select.cfm](http://www.who.int/whosis/database/core/core_select.cfm)**Period:** 1990-2005**Units:** number of deaths per thousand live births**Most recent data**

Albania	18.0000	Ecuador	24.0000	Lebanon	27.0000	Rwanda	118.0000
Algeria	35.0000	Egypt	33.0000	Lithuania	8.0000	Saudi Arabia	22.0000
Angola	154.0000	El Salvador	32.0000	Macedonia, FYR	10.0000	Senegal	78.0000
Argentina	17.0000	Estonia	8.0000	Madagascar	78.0000	Sierra Leone	166.0000
Armenia	30.0000	Ethiopia	112.0000	Malawi	112.0000	Slovakia	7.0000
Australia	4.6000	Finland	3.1000	Malaysia	7.0000	Slovenia	4.0000
Austria	4.5000	France	4.4000	Mali	122.0000	South Africa	53.0000
Azerbaijan	75.0000	Gabon	60.0000	Mauritania	77.0000	South Korea	5.0000
Bangladesh	46.0000	Gambia	90.0000	Mexico	23.0000	Spain	4.0000
Belarus	13.0000	Georgia	41.0000	Moldova	26.0000	Sri Lanka	13.0000
Belgium	4.0000	Germany	4.2000	Mongolia	56.0000	Sudan	63.0000
Benin	91.0000	Ghana	59.0000	Morocco	36.0000	Sweden	2.8000
Bolivia	53.0000	Greece	4.0000	Mozambique	101.0000	Switzerland	4.3000
Botswana	82.0000	Guatemala	35.0000	Namibia	48.0000	Syria	16.0000
Brazil	33.0000	Guinea	104.0000	Nepal	61.0000	Tajikistan	76.0000
Bulgaria	12.3000	Guinea Bis.	126.0000	Netherlands	4.8000	Tanzania	104.0000
Burkina Faso	107.0000	Hondura	32.0000	New Zealand	5.0000	Thailand	23.0000
Burundi	114.0000	Hungary	7.7000	Nicaragua	30.0000	Togo	78.0000
C. African R.	115.0000	India	63.0000	Niger	154.0000	Tunisia	19.0000
Cambodia	97.0000	Indonesia	31.0000	Nigeria	98.0000	Turkey	33.0000
Cameroon	95.0000	Iran	33.0000	Norway	3.4000	UAE	7.0000
Canada	5.0000	Ireland	5.1000	Oman	10.0000	Uganda	81.0000
Chad	117.0000	Israel	5.0000	Pakistan	74.0000	UK	5.3000
Chile	8.0000	Italy	4.3000	Panama	18.0000	Ukraine	15.0000
China	30.0000	Japan	3.1000	Papua N.G.	69.0000	Uruguay	12.0000
Colombia	18.0000	Jordan	23.0000	Paraguay	25.0000	USA	7.0000
Congo	81.0000	Kazakhstan	63.0000	Peru	26.0000	Uzbekistan	57.0000
Cote d'Ivoire	117.0000	Kenya	79.0000	Philippines	27.0000	Venezuela	18.0000
Croatia	6.0000	Kuwait	8.0000	Poland	6.0000	Vietnam	19.0000
Czech Rep.	3.9000	Kyrgyzstan	59.0000	Portugal	4.0000	Yemen	82.0000
D.R. Congo	129.0000	Laos	82.0000	Romania	18.0000	Zambia	102.0000
Denmark	4.4000	Latvia	10.0000	Russia	16.0000	Zimbabwe	78.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	44.6891	Min	2.8000	Std. Deviation	41.4719	5 Percentile	4.0000
Missing	0	Median	30.0000	Max	166.0000			95 Percentile	117.6500

## Normalization

Type *SB (smaller is better)*

Parameters *U=3.5333*

*T=129.0000*

Comments *T=average of Scandinavian countries*

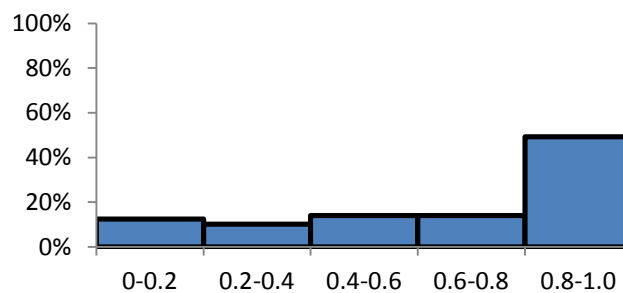
*U=max (excluding 2.5% outliers)*

## Smoothed data

Albania	0.8847	Ecuador	0.8369	Lebanon	0.8130	Rwanda	0.0878
Algeria	0.7492	Egypt	0.7651	Lithuania	0.9644	Saudi Arabia	0.8528
Angola	0.0000	El Salvador	0.7731	Macedonia, FYR	0.9485	Senegal	0.4065
Argentina	0.8927	Estonia	0.9549	Madagascar	0.4065	Sierra Leone	0.0000
Armenia	0.7891	Ethiopia	0.1355	Malawi	0.1355	Slovakia	0.9724
Australia	0.9909	Finland	1.0000	Malaysia	0.9724	Slovenia	0.9963
Austria	0.9923	France	0.9931	Mali	0.0558	South Africa	0.6057
Azerbaijan	0.4304	Gabon	0.5499	Mauritania	0.4145	South Korea	0.9883
Bangladesh	0.6615	Gambia	0.3108	Mexico	0.8448	Spain	0.9963
Belarus	0.9245	Georgia	0.7014	Moldova	0.8209	Sri Lanka	0.9245
Belgium	0.9963	Germany	0.9947	Mongolia	0.5818	Sudan	0.5260
Benin	0.3029	Ghana	0.5579	Morocco	0.7412	Sweden	1.0000
Bolivia	0.6057	Greece	0.9963	Mozambique	0.2232	Switzerland	0.9938
Botswana	0.3746	Guatemala	0.7492	Namibia	0.6456	Syria	0.9006
Brazil	0.7651	Guinea	0.1993	Nepal	0.5420	Tajikistan	0.4224
Bulgaria	0.9244	Guinea Bis.	0.0239	Netherlands	0.9901	Tanzania	0.1993
Burkina Faso	0.1753	Hondura	0.7731	New Zealand	0.9883	Thailand	0.8448
Burundi	0.1196	Hungary	0.9668	Nicaragua	0.7891	Togo	0.4065
C. African R.	0.1116	India	0.5260	Niger	0.0000	Tunisia	0.8767
Cambodia	0.2550	Indonesia	0.7811	Nigeria	0.2422	Turkey	0.7651
Cameroon	0.2710	Iran	0.7651	Norway	1.0000	UAE	0.9724
Canada	0.9883	Ireland	0.9868	Oman	0.9485	Uganda	0.3826
Chad	0.0956	Israel	0.9883	Pakistan	0.4384	UK	0.9859
Chile	0.9644	Italy	0.9939	Panama	0.8847	Ukraine	0.9086
China	0.7891	Japan	1.0000	Papua N.G.	0.4782	Uruguay	0.9325
Colombia	0.8847	Jordan	0.8448	Paraguay	0.8289	USA	0.9724
Congo	0.3826	Kazakhstan	0.5260	Peru	0.8209	Uzbekistan	0.5739
Cote d'Ivoire	0.0956	Kenya	0.3985	Philippines	0.8130	Venezuela	0.8847
Croatia	0.9803	Kuwait	0.9644	Poland	0.9803	Vietnam	0.8767
Czech Rep.	0.9971	Kyrgyzstan	0.5579	Portugal	0.9963	Yemen	0.3746
D.R. Congo	0.0000	Laos	0.3746	Romania	0.8847	Zambia	0.2152
Denmark	0.9931	Latvia	0.9226	Russia	0.9006	Zimbabwe	0.4065

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6769	Min	0.0000	Std. Deviation	0.3168	5 Percentile	0.0905
Missing	0	Median	0.7891	Max	1.0000			95 Percentile	0.9963





**Indicator: Internet users****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Response**Explanation:** Number of computers directly connected to the worldwide network of interconnected computer systems, per 10,000 people. Access to Internet facilitates knowledge acquisition.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** number of users per thousand people**Most recent data**

Albania	9.7631	Ecuador	45.9598	Lebanon	117.1303	Rwanda	3.0596
Algeria	15.9780	Egypt	39.3311	Lithuania	201.9038	Saudi Arabia	66.5516
Angola	2.9418	El Salvador	84.4141	Macedonia, FYR	24.7036	Senegal	21.7202
Argentina	112.0219	Estonia	444.1155	Madagascar	4.3146	Sierra Leone	1.6157
Armenia	36.8324	Ethiopia	1.0813	Malawi	3.4325	Slovakia	255.8693
Australia	566.6632	Finland	533.8187	Malaysia	344.0947	Slovenia	375.7515
Austria	462.0339	France	365.6077	Mali	2.3521	South Africa	68.2008
Azerbaijan	36.8505	Gabon	26.1780	Mauritania	4.3605	South Korea	609.6986
Bangladesh	1.7984	Gambia	9.2115	Mexico	118.4647	Spain	239.1083
Belarus	140.9779	Georgia	30.7601	Moldova	79.8492	Sri Lanka	11.7406
Belgium	385.6362	Germany	472.5459	Mongolia	58.1126	Sudan	9.0128
Benin	9.9644	Ghana	7.8435	Morocco	33.1961	Sweden	573.0739
Bolivia	32.3702	Greece	149.9926	Mozambique	2.7651	Switzerland	351.0377
Botswana	34.8837	Guatemala	33.3417	Namibia	33.7838	Syria	1.8531
Brazil	82.2411	Guinea	5.1606	Nepal	3.4478	Tajikistan	0.6297
Bulgaria	205.8379	Guinea Bis.	14.8438	Netherlands	521.9463	Tanzania	7.0795
Burkina Faso	3.9158	Hondura	25.1660	New Zealand	526.2895	Thailand	110.5191
Burundi	1.9670	Hungary	232.2386	Nicaragua	17.2891	Togo	42.0000
C. African R.	1.4493	India	17.4862	Niger	1.2769	Tunisia	63.7007
Cambodia	2.4754	Indonesia	37.5654	Nigeria	6.0820	Turkey	84.8512
Cameroon	3.7903	Iran	72.3663	Norway	345.6534	UAE	274.7833
Canada	512.8287	Ireland	316.6704	Oman	70.9220	Uganda	4.8830
Chad	1.9055	Israel	301.4046	Pakistan	10.2768	UK	423.0978
Chile	271.9849	Italy	336.6599	Panama	61.6182	Ukraine	18.7500
China	63.2481	Japan	482.6867	Papua N.G.	13.7262	Uruguay	119.0122
Colombia	52.5370	Jordan	81.0515	Paraguay	20.2337	USA	551.3774
Congo	4.2857	Kazakhstan	15.6563	Peru	103.9334	Uzbekistan	19.2082
Cote d'Ivoire	14.4300	Kenya	12.6984	Philippines	44.0383	Venezuela	60.2980
Croatia	231.8244	Kuwait	228.2302	Poland	232.4497	Vietnam	43.0096
Czech Rep.	308.0103	Kyrgyzstan	38.4143	Portugal	193.5067	Yemen	0.8175
D.R. Congo	0.0581	Laos	1.1416	Romania	184.0472	Zambia	6.0875
Denmark	512.8152	Latvia	403.5874	Russia	19.7368	Zimbabwe	42.9750

**Descriptive Statistics - based on most recent data**

Available	128	Mean	131.7020	Min	0.0581	Std. Deviation	171.2297	5 Percentile	1.5075
Missing	0	Median	42.4875	Max	609.6986			95 Percentile	518.7551

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0581$   $\tau=418.1960$

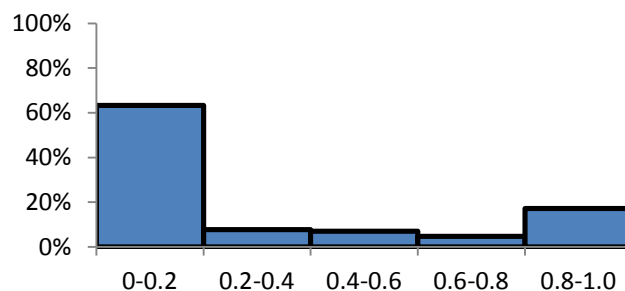
Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

## Smoothed data

Albania	0.0232	Ecuador	0.1098	Lebanon	0.2800	Rwanda	0.0072
Algeria	0.0381	Egypt	0.0939	Lithuania	0.4827	Saudi Arabia	0.1590
Angola	0.0069	El Salvador	0.2017	Macedonia, FYR	0.0589	Senegal	0.0518
Argentina	0.2678	Estonia	1.0000	Madagascar	0.0102	Sierra Leone	0.0037
Armenia	0.0879	Ethiopia	0.0024	Malawi	0.0081	Slovakia	0.6118
Australia	1.0000	Finland	1.0000	Malaysia	0.8228	Slovenia	0.8985
Austria	1.0000	France	0.8742	Mali	0.0055	South Africa	0.1630
Azerbaijan	0.0880	Gabon	0.0625	Mauritania	0.0103	South Korea	1.0000
Bangladesh	0.0042	Gambia	0.0219	Mexico	0.2832	Spain	0.5717
Belarus	0.3370	Georgia	0.0734	Moldova	0.1908	Sri Lanka	0.0279
Belgium	0.9221	Germany	1.0000	Mongolia	0.1388	Sudan	0.0214
Benin	0.0237	Ghana	0.0186	Morocco	0.0793	Sweden	1.0000
Bolivia	0.0773	Greece	0.3586	Mozambique	0.0065	Switzerland	0.8394
Botswana	0.0833	Guatemala	0.0796	Namibia	0.0807	Syria	0.0043
Brazil	0.1965	Guinea	0.0122	Nepal	0.0081	Tajikistan	0.0014
Bulgaria	0.4921	Guinea Bis.	0.0354	Netherlands	1.0000	Tanzania	0.0168
Burkina Faso	0.0092	Hondura	0.0600	New Zealand	1.0000	Thailand	0.2642
Burundi	0.0046	Hungary	0.5553	Nicaragua	0.0412	Togo	0.1003
C. African R.	0.0033	India	0.0417	Niger	0.0029	Tunisia	0.1522
Cambodia	0.0058	Indonesia	0.0897	Nigeria	0.0144	Turkey	0.2028
Cameroon	0.0089	Iran	0.1729	Norway	0.8265	UAE	0.6570
Canada	1.0000	Ireland	0.7572	Oman	0.1695	Uganda	0.0115
Chad	0.0044	Israel	0.7207	Pakistan	0.0244	UK	1.0000
Chile	0.6503	Italy	0.8050	Panama	0.1472	Ukraine	0.0447
China	0.1511	Japan	1.0000	Papua N.G.	0.0327	Uruguay	0.2845
Colombia	0.1255	Jordan	0.1937	Paraguay	0.0483	USA	1.0000
Congo	0.0101	Kazakhstan	0.0373	Peru	0.2484	Uzbekistan	0.0458
Cote d'Ivoire	0.0344	Kenya	0.0302	Philippines	0.1052	Venezuela	0.1441
Croatia	0.5543	Kuwait	0.5457	Poland	0.5558	Vietnam	0.1027
Czech Rep.	0.7365	Kyrgyzstan	0.0917	Portugal	0.4626	Yemen	0.0018
D.R. Congo	0.0000	Laos	0.0026	Romania	0.4400	Zambia	0.0144
Denmark	1.0000	Latvia	0.9651	Russia	0.0471	Zimbabwe	0.1026

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2898	Min	0.0000	Std. Deviation	0.3538	5 Percentile	0.0035
Missing	0	Median	0.1015	Max	1.0000			95 Percentile	1.0000



## Indicator: Knowledge Economy Index

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** KEI measures the degree to which a given country creates those conditions needed to use environment is conducive for knowledge effectively to enhance economic development. It is an aggregate index that represents the overall level of development of a country or region towards the Knowledge Economy.

**Sources:** World Bank ([http://info.worldbank.org/etools/kam2/KAM\\_page5.asp](http://info.worldbank.org/etools/kam2/KAM_page5.asp))

**Period:** 1990-2005

**Units:** values in [0, 10]

### Most recent data

Albania	2.7800	Ecuador	4.0100	Lebanon	5.4200	Rwanda	0.9300
Algeria	2.2600	Egypt	4.0700	Lithuania	5.8900	Saudi Arabia	4.6600
Angola	0.7000	El Salvador	3.9800	Macedonia, FYR	4.1500	Senegal	2.0900
Argentina	6.4100	Estonia	7.7600	Madagascar	1.6600	Sierra Leone	1.0700
Armenia	4.6100	Ethiopia	0.8500	Malawi	1.5300	Slovakia	6.9500
Australia	8.9300	Finland	9.3600	Malaysia	5.4600	Slovenia	7.6500
Austria	8.7800	France	8.6100	Mali	1.7100	South Africa	6.0800
Azerbaijan	3.4600	Gabon	0.0000*	Mauritania	1.2500	South Korea	7.8200
Bangladesh	0.8600	Gambia	0.0000*	Mexico	5.8200	Spain	8.2100
Belarus	4.6400	Georgia	4.5000	Moldova	3.9300	Sri Lanka	3.7400
Belgium	8.8500	Germany	8.7500	Mongolia	2.9400	Sudan	0.8100
Benin	1.8600	Ghana	1.9900	Morocco	3.2400	Sweden	9.1500
Bolivia	4.1200	Greece	7.5000	Mozambique	0.8900	Switzerland	9.2100
Botswana	4.1100	Guatemala	2.6300	Namibia	3.9100	Syria	2.1800
Brazil	5.1400	Guinea	0.0000*	Nepal	1.6500	Tajikistan	2.5700
Bulgaria	5.8100	Guinea Bis.	0.0000*	Netherlands	9.3200	Tanzania	1.1500
Burkina Faso	0.8700	Hondura	3.1500	New Zealand	9.1700	Thailand	5.7000
Burundi	0.0000*	Hungary	6.9900	Nicaragua	2.7700	Togo	0.0000*
C. African R.	0.0000*	India	2.9400	Niger	0.0000*	Tunisia	4.3500
Cambodia	0.0000*	Indonesia	3.2900	Nigeria	2.0900	Turkey	5.0600
Cameroon	1.6700	Iran	2.7600	Norway	9.2500	UAE	6.3200
Canada	9.1700	Ireland	8.5700	Oman	4.5600	Uganda	1.5300
Chad	0.0000*	Israel	8.2100	Pakistan	2.0900	UK	9.0100
Chile	6.5300	Italy	7.8500	Panama	5.6800	Ukraine	5.2400
China	2.6100	Japan	8.6000	Papua N.G.	0.0000*	Uruguay	6.7900
Colombia	4.8400	Jordan	4.7600	Paraguay	4.1900	USA	9.1900
Congo	0.0000*	Kazakhstan	4.4100	Peru	4.5400	Uzbekistan	3.3900
Cote d'Ivoire	1.7800	Kenya	2.5600	Philippines	4.7900	Venezuela	4.5900
Croatia	6.0600	Kuwait	5.6200	Poland	6.4800	Vietnam	2.1500
Czech Rep.	7.5300	Kyrgyzstan	3.7600	Portugal	7.6600	Yemen	1.6700
D.R. Congo	0.0000*	Laos	0.7200	Romania	5.3300	Zambia	3.0300
Denmark	9.3800	Latvia	5.5500	Russia	5.3600	Zimbabwe	3.2600

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	128	Mean	4.2640	Min	0.0000	Std. Deviation	2.8767	5 Percentile	0.0000
Missing	0	Median	4.1150	Max	9.3800			95 Percentile	9.1700

## Normalization

Type *LB (larger is better)*

Parameters  $u=4.0700$

$\tau=8.6100$

Comments  $u=\max$  of lower middle GNI income countries  $r=\text{average}$  of high income GNI countries

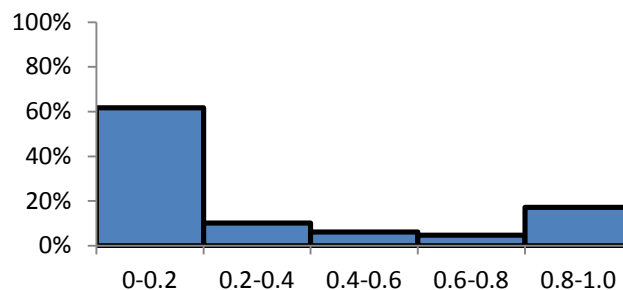
## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.2974	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.4009	Saudi Arabia	0.1300
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0176	Senegal	0.0000
Argentina	0.5154	Estonia	0.8128	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.1189	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.6344
Australia	1.0000	Finland	1.0000	Malaysia	0.3062	Slovenia	0.7885
Austria	1.0000	France	1.0000	Mali	0.0000	South Africa	0.4427
Azerbaijan	0.0000	Gabon	0.0000*	Mauritania	0.0000	South Korea	0.8260
Bangladesh	0.0000	Gambia	0.0000*	Mexico	0.3855	Spain	0.9119
Belarus	0.1256	Georgia	0.0947	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0110	Greece	0.7555	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0088	Guatemala	0.0000	Namibia	0.0000	Syria	0.0000
Brazil	0.2357	Guinea	0.0000*	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.3833	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	1.0000	Thailand	0.3590
Burundi	0.0000*	Hungary	0.6432	Nicaragua	0.0000	Togo	0.0000*
C. African R.	0.0000*	India	0.0000	Niger	0.0000*	Tunisia	0.0617
Cambodia	0.0000*	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.2181
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.4956
Canada	1.0000	Ireland	0.9912	Oman	0.1079	Uganda	0.0000
Chad	0.0000*	Israel	0.9119	Pakistan	0.0000	UK	1.0000
Chile	0.5419	Italy	0.8326	Panama	0.3546	Ukraine	0.2577
China	0.0000	Japan	0.9978	Papua N.G.	0.0000*	Uruguay	0.5991
Colombia	0.1696	Jordan	0.1520	Paraguay	0.0264	USA	1.0000
Congo	0.0000*	Kazakhstan	0.0749	Peru	0.1035	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.1586	Venezuela	0.1145
Croatia	0.4383	Kuwait	0.3414	Poland	0.5308	Vietnam	0.0000
Czech Rep.	0.7621	Kyrgyzstan	0.0000	Portugal	0.7907	Yemen	0.0000
D.R. Congo	0.0000*	Laos	0.0000	Romania	0.2775	Zambia	0.0000
Denmark	1.0000	Latvia	0.3260	Russia	0.2841	Zimbabwe	0.0000

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2744	Min	0.0000	Std. Deviation	0.3734	5 Percentile	0.0000
Missing	0	Median	0.0099	Max	1.0000			95 Percentile	1.0000



**Indicator:** Life expectancy**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** Number of years a newborn infant would live if patterns of mortality prevailing at the time of its birth were to stay the same throughout its life.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** number of years**Most recent data**

Albania	74.3326	Ecuador	71.0473	Lebanon	70.8835	Rwanda	39.7880
Algeria	70.8756	Egypt	69.1307	Lithuania	71.8610	Saudi Arabia	73.3267
Angola	46.6795	El Salvador	70.4166	Macedonia, FYR	73.6009	Senegal	52.3071
Argentina	74.4551	Estonia	71.1825	Madagascar	55.6853	Sierra Leone	37.3758
Armenia	74.9771	Ethiopia	42.0280	Malawi	37.5493	Slovakia	73.3905
Australia	79.7590	Finland	78.3168	Malaysia	72.9902	Slovenia	76.0871
Austria	79.0551	France	79.2634	Mali	40.6223	South Africa	45.7047
Azerbaijan	65.2122	Gabon	52.9700	Mauritania	51.0119	South Korea	74.1512
Bangladesh	62.4044	Gambia	53.3820	Mexico	73.6349	Spain	79.5561
Belarus	68.1744	Georgia	73.4661	Moldova	67.0210	Sri Lanka	74.0376
Belgium	78.2956	Germany	78.3293	Mongolia	65.9210	Sudan	58.6284
Benin	52.9571	Ghana	54.3758	Morocco	68.5907	Sweden	80.1149
Bolivia	64.1430	Greece	77.9854	Mozambique	40.7162	Switzerland	80.4900
Botswana	38.0249	Guatemala	66.0957	Namibia	40.3331	Syria	70.4897
Brazil	68.7179	Guinea	46.1603	Nepal	60.1556	Tajikistan	66.3385
Bulgaria	72.0840	Guinea Bis.	45.5369	Netherlands	78.4927	Tanzania	42.6703
Burkina Faso	42.7854	Hondura	66.1049	New Zealand	79.1463	Thailand	69.3265
Burundi	41.5751	Hungary	72.5849	Nicaragua	68.8262	Togo	49.7038
C. African R.	41.8289	India	63.4205	Niger	46.3777	Tunisia	73.1605
Cambodia	54.0200	Indonesia	66.8932	Nigeria	44.9071	Turkey	68.6439
Cameroon	47.9964	Iran	69.4487	Norway	79.0454	UAE	75.3960
Canada	79.3438	Ireland	77.6766	Oman	74.2408	Uganda	43.1990
Chad	48.3439	Israel	78.7615	Pakistan	64.0938	UK	77.6289
Chile	76.4363	Italy	79.8268	Panama	75.0199	Ukraine	68.2865
China	70.8006	Japan	81.6839	Papua N.G.	57.2293	Uruguay	75.3839
Colombia	71.9250	Jordan	72.1207	Paraguay	70.9510	USA	77.4060
Congo	51.6717	Kazakhstan	61.3246	Peru	70.0091	Uzbekistan	66.6768
Cote d'Ivoire	45.1084	Kenya	45.4117	Philippines	69.9207	Venezuela	73.8695
Croatia	73.9887	Kuwait	77.0229	Poland	74.5976	Vietnam	69.9132
Czech Rep.	75.1707	Kyrgyzstan	65.0284	Portugal	76.1781	Yemen	57.7095
D.R. Congo	45.2074	Laos	54.7374	Romania	70.0886	Zambia	36.4832
Denmark	77.1439	Latvia	70.6922	Russia	65.7049	Zimbabwe	38.5276

**Descriptive Statistics - based on most recent data**

Available	128	Mean	64.4304	Min	36.4832	Std. Deviation	13.1874	5 Percentile	40.4343
Missing	0	Median	69.3876	Max	81.6839			95 Percentile	79.3157

## Normalization

Type *LB (larger is better)*

Parameters  $u=36.4832$   $\tau=78.7681$

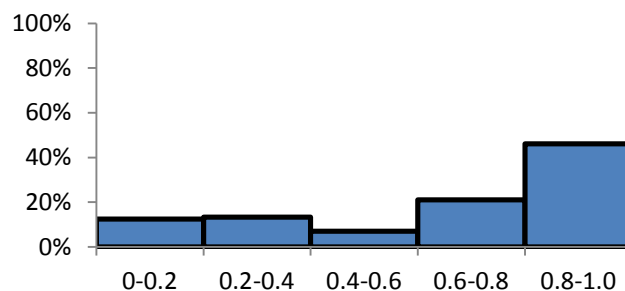
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.8928	Ecuador	0.8174	Lebanon	0.8135	Rwanda	0.0704
Algeria	0.8134	Egypt	0.7721	Lithuania	0.8367	Saudi Arabia	0.8713
Angola	0.2411	El Salvador	0.8025	Macedonia, FYR	0.8778	Senegal	0.3742
Argentina	0.8980	Estonia	0.8206	Madagascar	0.4541	Sierra Leone	0.0211
Armenia	0.9096	Ethiopia	0.1317	Malawi	0.0252	Slovakia	0.8728
Australia	1.0000	Finland	0.9893	Malaysia	0.8634	Slovenia	0.9366
Austria	1.0000	France	1.0000	Mali	0.0979	South Africa	0.2181
Azerbaijan	0.6794	Gabon	0.3899	Mauritania	0.3436	South Korea	0.8908
Bangladesh	0.6130	Gambia	0.3996	Mexico	0.8786	Spain	1.0000
Belarus	0.7495	Georgia	0.8746	Moldova	0.7220	Sri Lanka	0.8881
Belgium	0.9888	Germany	0.9896	Mongolia	0.6962	Sudan	0.5237
Benin	0.3896	Ghana	0.4555	Morocco	0.7593	Sweden	1.0000
Bolivia	0.6541	Greece	0.9815	Mozambique	0.1001	Switzerland	1.0000
Botswana	0.0365	Guatemala	0.7003	Namibia	0.0968	Syria	0.8042
Brazil	0.7623	Guinea	0.2289	Nepal	0.5598	Tajikistan	0.7061
Bulgaria	0.8419	Guinea Bis.	0.2141	Netherlands	0.9931	Tanzania	0.1463
Burkina Faso	0.1490	Hondura	0.7005	New Zealand	1.0000	Thailand	0.7703
Burundi	0.1229	Hungary	0.8538	Nicaragua	0.7649	Togo	0.3127
C. African R.	0.1264	India	0.6370	Niger	0.2340	Tunisia	0.8674
Cambodia	0.4147	Indonesia	0.7192	Nigeria	0.1992	Turkey	0.7606
Cameroon	0.2723	Iran	0.7796	Norway	1.0000	UAE	0.9203
Canada	1.0000	Ireland	0.9742	Oman	0.8929	Uganda	0.1588
Chad	0.2805	Israel	0.9998	Pakistan	0.6530	UK	0.9731
Chile	0.9449	Italy	1.0000	Panama	0.9114	Ukraine	0.7521
China	0.8116	Japan	1.0000	Papua N.G.	0.4906	Uruguay	0.9200
Colombia	0.8382	Jordan	0.8428	Paraguay	0.8151	USA	0.9678
Congo	0.3563	Kazakhstan	0.5883	Peru	0.7929	Uzbekistan	0.7141
Cote d'Ivoire	0.2040	Kenya	0.2112	Philippines	0.7908	Venezuela	0.8842
Croatia	0.8859	Kuwait	0.9587	Poland	0.9014	Vietnam	0.7906
Czech Rep.	0.9149	Kyrgyzstan	0.6751	Portugal	0.9388	Yemen	0.5020
D.R. Congo	0.2070	Laos	0.4317	Romania	0.7947	Zambia	0.0000
Denmark	0.9616	Latvia	0.8090	Russia	0.6911	Zimbabwe	0.0483

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6591	Min	0.0000	Std. Deviation	0.3093	5 Percentile	0.0972
Missing	0	Median	0.7758	Max	1.0000			95 Percentile	1.0000



**Indicator: Literacy rate****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Adult literacy rate is the percentage of people ages 15 and above who can, with understanding, read and write a short, simple statement on their everyday life.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** percent of people with ages 15 and above**Most recent data**

Albania	98.7130	Ecuador	90.9840	Lebanon	88.3000	Rwanda	69.2382
Algeria	68.8645	Egypt	55.5870	Lithuania	99.6458	Saudi Arabia	77.8830
Angola	67.4000	El Salvador	79.6507	Macedonia, FYR	96.1000	Senegal	39.2548
Argentina	96.9908	Estonia	99.8000	Madagascar	70.7000	Sierra Leone	34.8000
Armenia	99.3981	Ethiopia	41.5000	Malawi	61.8333	Slovakia	99.6818
Australia	99.0000	Finland	99.0000	Malaysia	88.7000	Slovenia	99.6526
Austria	99.0000	France	99.0000	Mali	19.0450	South Africa	85.9818
Azerbaijan	98.8000	Gabon	84.0000	Mauritania	41.2165	South Korea	99.0000
Bangladesh	41.0944	Gambia	42.5000	Mexico	90.5356	Spain	97.8093
Belarus	99.6809	Georgia	100.0000*	Moldova	99.0467	Sri Lanka	92.0832
Belgium	99.0000	Germany	99.0000	Mongolia	97.8000	Sudan	59.9170
Benin	39.7597	Ghana	73.8000	Morocco	50.7304	Sweden	99.0000
Bolivia	86.7237	Greece	97.3735	Mozambique	46.4860	Switzerland	99.0000
Botswana	78.8927	Guatemala	69.8635	Namibia	83.3118	Syria	82.8882
Brazil	86.3679	Guinea	29.5000	Nepal	44.0144	Tajikistan	99.4914
Bulgaria	98.5634	Guinea Bis.	44.8000	Netherlands	99.0000	Tanzania	77.0653
Burkina Faso	12.8000	Hondura	80.0110	New Zealand	99.0000	Thailand	92.6465
Burundi	50.3836	Hungary	99.3568	Nicaragua	76.6771	Togo	59.6395
C. African R.	48.5698	India	61.3000	Niger	17.0593	Tunisia	73.1678
Cambodia	69.4160	Indonesia	87.8701	Nigeria	66.8000	Turkey	86.5000
Cameroon	67.9000	Iran	77.0683	Norway	99.0000	UAE	77.2562
Canada	100.0000	Ireland	99.0000	Oman	74.4091	Uganda	68.8892
Chad	45.8000	Israel	95.3135	Pakistan	41.4527	UK	99.0000
Chile	95.7166	Italy	98.5466	Panama	92.3152	Ukraine	99.6393
China	90.9202	Japan	99.0000	Papua N.G.	57.3000	Uruguay	97.7187
Colombia	92.1482	Jordan	90.9000	Paraguay	91.5923	USA	99.0000
Congo	82.8227	Kazakhstan	99.4430	Peru	85.0053	Uzbekistan	99.2728
Cote d'Ivoire	47.6482	Kenya	84.2535	Philippines	92.6001	Venezuela	93.1158
Croatia	98.1467	Kuwait	82.9436	Poland	99.8000	Vietnam	90.2783
Czech Rep.	99.0000	Kyrgyzstan	98.7000	Portugal	92.8953	Yemen	48.9753
D.R. Congo	67.2000	Laos	66.4352	Romania	97.2970	Zambia	79.8678
Denmark	99.0000	Latvia	99.7459	Russia	99.5875	Zimbabwe	89.9988

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	80.3042	Min	12.8000	Std. Deviation	21.9736	5 Percentile	40.2268
Missing	0	Median	89.3494	Max	100.0000			95 Percentile	99.6710



## Normalization

Type *LB (larger is better)* Parameters  $u=12.8000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

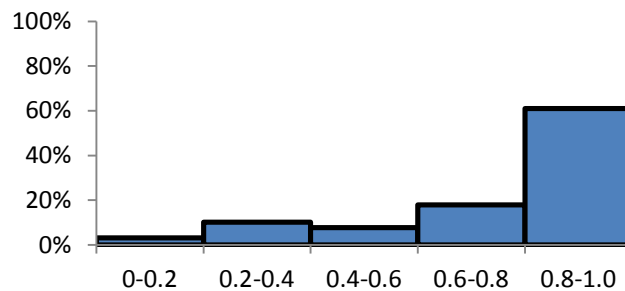
## Smoothed data

Albania	0.9852	Ecuador	0.8966	Lebanon	0.8658	Rwanda	0.6472
Algeria	0.6429	Egypt	0.4907	Lithuania	0.9959	Saudi Arabia	0.7464
Angola	0.6261	El Salvador	0.7666	Macedonia, FYR	0.9553	Senegal	0.3034
Argentina	0.9655	Estonia	0.9976	Madagascar	0.6640	Sierra Leone	0.2523
Armenia	0.9846	Ethiopia	0.3291	Malawi	0.5623	Slovakia	0.9964
Australia	0.9885	Finland	0.9885	Malaysia	0.8704	Slovenia	0.9960
Austria	0.9885	France	0.9885	Mali	0.0862	South Africa	0.8392
Azerbaijan	0.9862	Gabon	0.8165	Mauritania	0.3259	South Korea	0.9885
Bangladesh	0.3245	Gambia	0.3406	Mexico	0.8915	Spain	0.9749
Belarus	0.9963	Georgia	1.0000*	Moldova	0.9891	Sri Lanka	0.9092
Belgium	0.9885	Germany	0.9885	Mongolia	0.9748	Sudan	0.5403
Benin	0.3092	Ghana	0.6995	Morocco	0.4350	Sweden	0.9885
Bolivia	0.8477	Greece	0.9699	Mozambique	0.3863	Switzerland	0.9885
Botswana	0.7579	Guatemala	0.6544	Namibia	0.8086	Syria	0.8038
Brazil	0.8437	Guinea	0.1915	Nepal	0.3580	Tajikistan	0.9942
Bulgaria	0.9835	Guinea Bis.	0.3670	Netherlands	0.9885	Tanzania	0.7370
Burkina Faso	0.0518	Hondura	0.7708	New Zealand	0.9885	Thailand	0.9157
Burundi	0.4310	Hungary	0.9926	Nicaragua	0.7325	Togo	0.5372
C. African R.	0.4102	India	0.5562	Niger	0.0488	Tunisia	0.6923
Cambodia	0.6493	Indonesia	0.8609	Nigeria	0.6193	Turkey	0.8452
Cameroon	0.6319	Iran	0.7370	Norway	0.9885	UAE	0.7392
Canada	1.0000	Ireland	0.9885	Oman	0.7065	Uganda	0.6432
Chad	0.3784	Israel	0.9463	Pakistan	0.3286	UK	0.9885
Chile	0.9509	Italy	0.9833	Panama	0.9119	Ukraine	0.9959
China	0.8959	Japan	0.9885	Papua N.G.	0.5103	Uruguay	0.9738
Colombia	0.9100	Jordan	0.8956	Paraguay	0.9036	USA	0.9885
Congo	0.8030	Kazakhstan	0.9936	Peru	0.8280	Uzbekistan	0.9917
Cote d'Ivoire	0.3996	Kenya	0.8194	Philippines	0.9151	Venezuela	0.9211
Croatia	0.9787	Kuwait	0.8044	Poland	0.9977	Vietnam	0.8919
Czech Rep.	0.9885	Kyrgyzstan	0.9851	Portugal	0.9185	Yemen	0.4149
D.R. Congo	0.6239	Laos	0.6151	Romania	0.9690	Zambia	0.7691
Denmark	0.9885	Latvia	0.9976	Russia	0.9953	Zimbabwe	0.8853

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7746	Min	0.0488	Std. Deviation	0.2504	5 Percentile	0.3145
Missing	0	Median	0.8779	Max	1.0000			95 Percentile	0.9962





## Indicator: Malaria cases

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Health

**Tertiary indicator:** Pressure

**Explanation:** Standardized cases are derived from the total reported number of cases and an appreciation of the proportion of these cases that were laboratory-confirmed. Reported cases per country for the most recent year for which WHO/RBM received data. The standardized case reporting rate (per 1,000 per year) is calculated by dividing the standardized cases by the national population size estimated by the United Nations Population Division for the middle of the year under consideration.

**Sources:** World Health Organization  
([http://rbm.who.int/wmr2005/tables/table\\_a22.pdf](http://rbm.who.int/wmr2005/tables/table_a22.pdf);  
<http://apps.who.int/globalatlas/default.asp>)

**Period:** 1990-2005

**Units:** standardized reported malaria cases per 1,000

### Most recent data

Albania	24.7000	Ecuador	4.0000	Lebanon	0.0000*	Rwanda	102.1000
Algeria	0.0500	Egypt	0.0000	Lithuania	0.0000*	Saudi Arabia	0.1000
Angola	106.9000	El Salvador	0.0500	Macedonia, FYR	0.0000*	Senegal	119.3000
Argentina	0.0500	Estonia	0.0000*	Madagascar	121.5000	Sierra Leone	95.4000
Armenia	0.0500	Ethiopia	8.0000	Malawi	240.4000	Slovakia	0.0000*
Australia	0.0000*	Finland	0.0000*	Malaysia	0.2000	Slovenia	0.0000*
Austria	0.0000*	France	0.0000*	Mali	62.2000	South Africa	0.3000
Azerbaijan	0.1000	Gabon	66.8000	Mauritania	59.6000	South Korea	0.0500
Bangladesh	0.4000	Gambia	100.5000	Mexico	0.0500	Spain	0.0000*
Belarus	0.0000*	Georgia	0.1000	Moldova	0.0000*	Sri Lanka	0.6000
Belgium	0.0000*	Germany	0.0000*	Mongolia	0.0000*	Sudan	91.8000
Benin	122.0000	Ghana	169.8000	Morocco	0.0500	Sweden	0.0000*
Bolivia	2.3000	Greece	0.0000*	Mozambique	269.7000	Switzerland	0.0000*
Botswana	12.6000	Guatemala	2.5000	Namibia	223.4000	Syria	0.0500
Brazil	2.1000	Guinea	109.5000	Nepal	0.4000	Tajikistan	0.1000
Bulgaria	0.0000*	Guinea Bis.	134.6000	Netherlands	0.0000*	Tanzania	289.7000
Burkina Faso	114.9000	Hondura	1.5000	New Zealand	0.0000*	Thailand	0.6000
Burundi	274.0000	Hungary	0.0000*	Nicaragua	1.2000	Togo	92.1000
C. African R.	24.7000	India	1.7000	Niger	59.1000	Tunisia	0.0000*
Cambodia	5.0000	Indonesia	1.0000	Nigeria	21.0000	Turkey	0.1000
Cameroon	46.0000	Iran	0.2000	Norway	0.0000*	UAE	0.0000*
Canada	0.0000*	Ireland	0.0000*	Oman	0.0500	Uganda	477.9000
Chad	47.7000	Israel	0.0000*	Pakistan	0.8000	UK	0.0000*
Chile	0.0000*	Italy	0.0000*	Panama	2.9000	Ukraine	0.0000*
China	0.0500	Japan	0.0000*	Papua N.G.	12.3000	Uruguay	0.0000*
Colombia	3.7000	Jordan	0.0000*	Paraguay	0.2000	USA	0.0000*
Congo	5.3000	Kazakhstan	0.0000*	Peru	2.9000	Uzbekistan	0.0500
Cote d'Ivoire	24.9000	Kenya	3.9000	Philippines	0.5000	Venezuela	1.2000
Croatia	0.0000*	Kuwait	0.0000*	Poland	0.0000*	Vietnam	0.5000
Czech Rep.	0.0000*	Kyrgyzstan	0.1000	Portugal	0.0000*	Yemen	13.2000
D.R. Congo	83.1000	Laos	3.3000	Romania	0.0000*	Zambia	190.2000
Denmark	0.0000*	Latvia	0.0000*	Russia	0.0000*	Zimbabwe	97.6000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	128	Mean	32.4965	Min	0.0000	Std. Deviation	73.2807	5 Percentile	0.0000
Missing	0	Median	0.1000	Max	477.9000			95 Percentile	183.0600

## Normalization

Type *SB (smaller is better)* Parameters *U=0.0000* *T=0.1000*  
 Comments *T=minimum possible* *U=median*

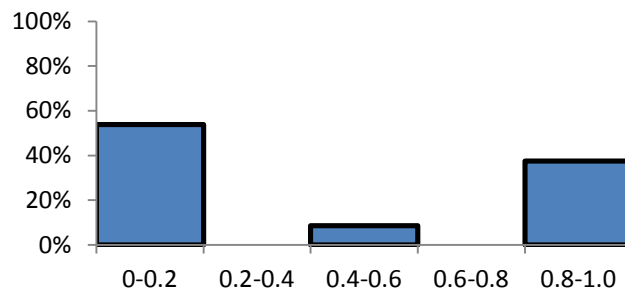
## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	1.0000*	Rwanda	0.0000
Algeria	0.5000	Egypt	1.0000	Lithuania	1.0000*	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.5000	Macedonia, FYR	1.0000*	Senegal	0.0000
Argentina	0.4793	Estonia	1.0000*	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.4989	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000*
Australia	1.0000*	Finland	1.0000*	Malaysia	0.0000	Slovenia	1.0000*
Austria	1.0000*	France	1.0000*	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.5000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.5000	Spain	1.0000*
Belarus	1.0000*	Georgia	0.0185	Moldova	1.0000*	Sri Lanka	0.0000
Belgium	1.0000*	Germany	1.0000*	Mongolia	1.0000*	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.5357	Sweden	1.0000*
Bolivia	0.0000	Greece	1.0000*	Mozambique	0.0000	Switzerland	1.0000*
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.4643
Brazil	0.0000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.1019
Bulgaria	1.0000*	Guinea Bis.	0.0000	Netherlands	1.0000*	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	1.0000*	Thailand	0.0000
Burundi	0.0000	Hungary	1.0000*	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	1.0000*
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000*	UAE	1.0000*
Canada	1.0000*	Ireland	1.0000*	Oman	0.5000	Uganda	0.0000
Chad	0.0000	Israel	1.0000*	Pakistan	0.0000	UK	1.0000*
Chile	1.0000*	Italy	1.0000*	Panama	0.0000	Ukraine	1.0000*
China	0.4982	Japan	1.0000*	Papua N.G.	0.0000	Uruguay	1.0000*
Colombia	0.0000	Jordan	1.0000*	Paraguay	0.0000	USA	1.0000*
Congo	0.0000	Kazakhstan	1.0000*	Peru	0.0000	Uzbekistan	0.5139
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	1.0000*	Kuwait	1.0000*	Poland	1.0000*	Vietnam	0.0000
Czech Rep.	1.0000*	Kyrgyzstan	0.0185	Portugal	1.0000*	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	1.0000*	Zambia	0.0000
Denmark	1.0000*	Latvia	1.0000*	Russia	1.0000*	Zimbabwe	0.0000

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4190	Min	0.0000	Std. Deviation	0.4719	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Male expected years of schooling****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Average number of years of formal schooling that a child is expected to receive, including university education and years spent in repetition. It may also be interpreted as an indicator of the total educational resources, measured in school years, a child will require over the course of schooling.**Sources:** World Bank (2007);United Nations  
(<http://unstats.un.org/unsd/demographic/products/socind/education.htm>)**Period:** 1990-2005**Units:** years**Most recent data**

Albania	11.1537	Ecuador	6.4000	Lebanon	12.8926	Rwanda	8.8564
Algeria	13.0000	Egypt	12.0000*	Lithuania	14.8634	Saudi Arabia	9.7429
Angola	4.6133	El Salvador	11.3739	Macedonia, FYR	11.9351	Senegal	2.6000
Argentina	15.1966	Estonia	14.3712	Madagascar	6.3334	Sierra Leone	7.9375
Armenia	10.4418	Ethiopia	6.8452	Malawi	11.4506	Slovakia	13.6582
Australia	19.3756	Finland	16.7682	Malaysia	11.8075	Slovenia	15.4813
Austria	14.4601	France	15.0752	Mali	0.9000	South Africa	12.6005
Azerbaijan	10.6781	Gabon	12.4578	Mauritania	7.4146	South Korea	16.6709
Bangladesh	8.2030	Gambia	7.7327	Mexico	12.3263	Spain	15.5191
Belarus	13.7292	Georgia	11.3742	Moldova	9.7753	Sri Lanka	6.9000
Belgium	18.2795	Germany	15.5397	Mongolia	10.0132	Sudan	2.1000
Benin	10.0414	Ghana	8.3915	Morocco	10.5286	Sweden	16.8415
Bolivia	13.6093	Greece	15.5272	Mozambique	7.6121	Switzerland	15.8099
Botswana	11.5500	Guatemala	9.4979	Namibia	11.4586	Syria	5.8000
Brazil	14.1369	Guinea	0.0000	Nepal	10.4601	Tajikistan	12.1848
Bulgaria	12.6520	Guinea Bis.	6.6699	Netherlands	16.4460	Tanzania	5.0456
Burkina Faso	4.3013	Hondura	4.8000	New Zealand	17.2416	Thailand	12.1451
Burundi	6.3436	Hungary	14.8577	Nicaragua	10.3098	Togo	12.5325
C. African R.	2.5000	India	10.3217	Niger	3.4764	Tunisia	13.0058
Cambodia	9.9400	Indonesia	11.3216	Nigeria	11.2659	Turkey	11.7815
Cameroon	10.0308	Iran	12.0847	Norway	16.3795	UAE	11.3821
Canada	15.7026	Ireland	16.1019	Oman	10.5339	Uganda	12.2915
Chad	6.9243	Israel	14.7017	Pakistan	6.4861	UK	19.1217
Chile	13.7743	Italy	15.0963	Panama	12.6405	Ukraine	13.0094
China	10.9206	Japan	14.8215	Papua N.G.	6.0784	Uruguay	13.7890
Colombia	10.7870	Jordan	12.6508	Paraguay	11.9897	USA	14.4136
Congo	8.3808	Kazakhstan	13.0924	Peru	13.7611	Uzbekistan	11.7815
Cote d'Ivoire	7.7398	Kenya	8.7845	Philippines	11.7355	Venezuela	11.5205
Croatia	12.7582	Kuwait	12.9199	Poland	14.9281	Vietnam	11.0327
Czech Rep.	14.5562	Kyrgyzstan	12.4535	Portugal	15.3028	Yemen	10.6859
D.R. Congo	4.0000*	Laos	10.0627	Romania	12.3481	Zambia	7.3362
Denmark	15.7807	Latvia	13.8266	Russia	12.8134	Zimbabwe	9.1194

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	11.2476	Min	0.0000	Std. Deviation	3.8696	5 Percentile	4.1055
Missing	0	Median	11.7815	Max	19.3756			95 Percentile	16.5922

## Normalization

Type LB (larger is better)

Parameters  $u=0.0000$   $\tau=12.0000$

Comments  $u=\min$   $r=\text{typical in many developed countries}$

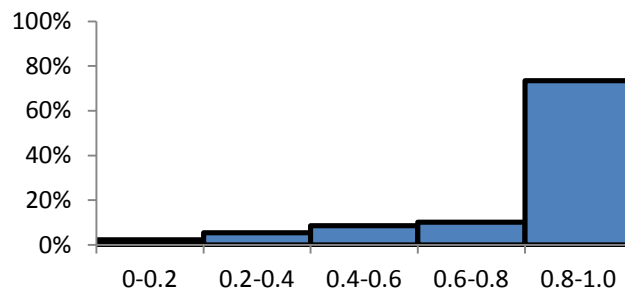
## Smoothed data

Albania	0.9298	Ecuador	0.5333	Lebanon	1.0000	Rwanda	0.7380
Algeria	1.0000	Egypt	1.0000*	Lithuania	1.0000	Saudi Arabia	0.8121
Angola	0.3844	El Salvador	0.9478	Macedonia, FYR	0.9946	Senegal	0.2167
Argentina	1.0000	Estonia	1.0000	Madagascar	0.5278	Sierra Leone	0.6615
Armenia	0.8681	Ethiopia	0.5704	Malawi	0.9542	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.9893	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.0750	South Africa	1.0000
Azerbaijan	0.8852	Gabon	1.0000	Mauritania	0.6145	South Korea	1.0000
Bangladesh	0.6836	Gambia	0.6444	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	0.9478	Moldova	0.8146	Sri Lanka	0.5750
Belgium	1.0000	Germany	1.0000	Mongolia	0.8344	Sudan	0.1750
Benin	0.8368	Ghana	0.6663	Morocco	0.8774	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.6343	Switzerland	1.0000
Botswana	0.9625	Guatemala	0.7915	Namibia	0.9549	Syria	0.4833
Brazil	1.0000	Guinea	0.0000	Nepal	0.8717	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.5558	Netherlands	1.0000	Tanzania	0.4205
Burkina Faso	0.3584	Hondura	0.4000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.5286	Hungary	1.0000	Nicaragua	0.8591	Togo	1.0000
C. African R.	0.2083	India	0.8601	Niger	0.2897	Tunisia	1.0000
Cambodia	0.8283	Indonesia	0.9435	Nigeria	0.9388	Turkey	0.9818
Cameroon	0.8359	Iran	1.0000	Norway	1.0000	UAE	0.9485
Canada	1.0000	Ireland	1.0000	Oman	0.8778	Uganda	0.9847
Chad	0.5770	Israel	1.0000	Pakistan	0.5405	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.9101	Japan	1.0000	Papua N.G.	0.5065	Uruguay	1.0000
Colombia	0.8959	Jordan	1.0000	Paraguay	0.9991	USA	1.0000
Congo	0.6984	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9818
Cote d'Ivoire	0.6450	Kenya	0.7320	Philippines	0.9780	Venezuela	0.9600
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.9194
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.8905
D.R. Congo	0.3333*	Laos	0.8386	Romania	1.0000	Zambia	0.6105
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.7600

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8442	Min	0.0000	Std. Deviation	0.2342	5 Percentile	0.3421
Missing	0	Median	0.9818	Max	1.0000			95 Percentile	1.0000



## Indicator: Maternal mortality rate

Primary indicator:

Secondary indicator: Health

Tertiary indicator: Pressure

Explanation: Annual number of deaths from pregnancy or childbirth related causes per 100,000 live births. A maternal death is defined by WHO as the death of a woman while pregnant or within 42 days of the termination of pregnancy from any cause related to or aggravated by the pregnancy, including abortion.

Sources: World Health Organization

[http://www.who.int/whosis/database/core/core\\_select.cfm](http://www.who.int/whosis/database/core/core_select.cfm)

Period: 1990-2005

Units: number of deaths per 100,000 live births

### Most recent data

Albania	55.0000	Ecuador	130.0000	Lebanon	150.0000	Rwanda	1,400.0000
Algeria	140.0000	Egypt	84.0000	Lithuania	13.0000	Saudi Arabia	23.0000
Angola	1,700.0000	El Salvador	150.0000	Macedonia, FYR	23.0000	Senegal	690.0000
Argentina	82.0000	Estonia	63.0000	Madagascar	550.0000	Sierra Leone	2,000.0000
Armenia	55.0000	Ethiopia	850.0000	Malawi	1,800.0000	Slovakia	3.0000
Australia	8.0000	Finland	6.0000	Malaysia	41.0000	Slovenia	17.0000
Austria	4.0000	France	17.0000	Mali	1,200.0000	South Africa	230.0000
Azerbaijan	94.0000	Gabon	420.0000	Mauritania	1,000.0000	South Korea	20.0000
Bangladesh	380.0000	Gambia	540.0000	Mexico	83.0000	Spain	4.0000
Belarus	35.0000	Georgia	32.0000	Moldova	36.0000	Sri Lanka	92.0000
Belgium	10.0000	Germany	8.0000	Mongolia	110.0000	Sudan	590.0000
Benin	850.0000	Ghana	540.0000	Morocco	220.0000	Sweden	2.0000
Bolivia	420.0000	Greece	9.0000	Mozambique	1,000.0000	Switzerland	7.0000
Botswana	100.0000	Guatemala	240.0000	Namibia	300.0000	Syria	160.0000
Brazil	260.0000	Guinea	740.0000	Nepal	740.0000	Tajikistan	100.0000
Bulgaria	32.0000	Guinea Bis.	1,100.0000	Netherlands	16.0000	Tanzania	1,500.0000
Burkina Faso	1,000.0000	Hondura	110.0000	New Zealand	7.0000	Thailand	44.0000
Burundi	1,000.0000	Hungary	16.0000	Nicaragua	230.0000	Togo	570.0000
C. African R.	1,100.0000	India	540.0000	Niger	1,600.0000	Tunisia	120.0000
Cambodia	450.0000	Indonesia	230.0000	Nigeria	800.0000	Turkey	70.0000
Cameroon	730.0000	Iran	76.0000	Norway	16.0000	UAE	54.0000
Canada	6.0000	Ireland	5.0000	Oman	87.0000	Uganda	880.0000
Chad	1,100.0000	Israel	17.0000	Pakistan	500.0000	UK	13.0000
Chile	31.0000	Italy	5.0000	Panama	160.0000	Ukraine	35.0000
China	56.0000	Japan	10.0000	Papua N.G.	300.0000	Uruguay	27.0000
Colombia	130.0000	Jordan	41.0000	Paraguay	170.0000	USA	17.0000
Congo	510.0000	Kazakhstan	210.0000	Peru	410.0000	Uzbekistan	24.0000
Cote d'Ivoire	690.0000	Kenya	1,000.0000	Philippines	200.0000	Venezuela	96.0000
Croatia	8.0000	Kuwait	5.0000	Poland	13.0000	Vietnam	130.0000
Czech Rep.	9.0000	Kyrgyzstan	110.0000	Portugal	5.0000	Yemen	570.0000
D.R. Congo	990.0000	Laos	650.0000	Romania	49.0000	Zambia	750.0000
Denmark	5.0000	Latvia	42.0000	Russia	67.0000	Zimbabwe	1,100.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	338.0469	Min	2.0000	Std. Deviation	447.9297	5 Percentile	5.0000
Missing	0	Median	110.0000	Max	2,000.0000			95 Percentile	1,165.0000

## Normalization

Type *SB (smaller is better)*

Parameters *U=7.6667*

*T=1,200.0000*

Comments *T=average of Scandinavian countries*

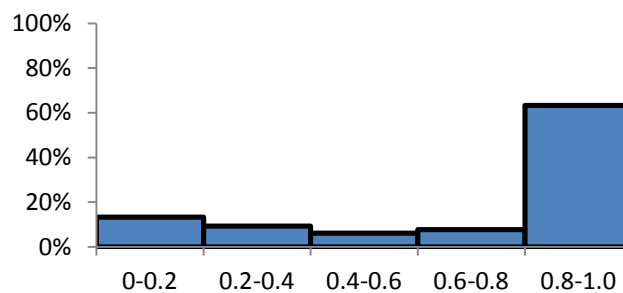
*U=max (excluding 4.5% outliers)*

## Smoothed data

Albania	0.9642	Ecuador	0.8694	Lebanon	0.8806	Rwanda	0.0000
Algeria	0.8890	Egypt	0.9360	Lithuania	0.9955	Saudi Arabia	0.9871
Angola	0.0000	El Salvador	0.8806	Macedonia, FYR	0.9871	Senegal	0.4277
Argentina	0.9377	Estonia	0.9536	Madagascar	0.5451	Sierra Leone	0.0000
Armenia	0.9690	Ethiopia	0.2935	Malawi	0.0000	Slovakia	1.0000
Australia	0.9997	Finland	1.0000	Malaysia	0.9720	Slovenia	0.9922
Austria	0.9984	France	0.9919	Mali	0.1594	South Africa	0.7828
Azerbaijan	0.9276	Gabon	0.5759	Mauritania	0.2237	South Korea	0.9897
Bangladesh	0.6877	Gambia	0.5535	Mexico	0.9369	Spain	0.9999
Belarus	0.9771	Georgia	0.9821	Moldova	0.9614	Sri Lanka	0.9294
Belgium	0.9986	Germany	0.9997	Mongolia	0.9142	Sudan	0.3215
Benin	0.2935	Ghana	0.5535	Morocco	0.8219	Sweden	0.9999
Bolivia	0.6542	Greece	0.9990	Mozambique	0.1677	Switzerland	0.9999
Botswana	0.7744	Guatemala	0.8052	Namibia	0.7548	Syria	0.8555
Brazil	0.7884	Guinea	0.3858	Nepal	0.3858	Tajikistan	0.9226
Bulgaria	0.9835	Guinea Bis.	0.0839	Netherlands	0.9958	Tanzania	0.0000
Burkina Faso	0.1314	Hondura	0.9142	New Zealand	1.0000	Thailand	0.9695
Burundi	0.1677	Hungary	0.9930	Nicaragua	0.8136	Togo	0.3942
C. African R.	0.0841	India	0.5731	Niger	0.0783	Tunisia	0.9058
Cambodia	0.6290	Indonesia	0.8135	Nigeria	0.1957	Turkey	0.9477
Cameroon	0.3942	Iran	0.9153	Norway	0.9930	UAE	0.9611
Canada	1.0000	Ireland	1.0000	Oman	0.9335	Uganda	0.2684
Chad	0.0839	Israel	0.9922	Pakistan	0.7157	UK	0.9955
Chile	0.9804	Italy	1.0000	Panama	0.8722	Ukraine	0.9771
China	0.9595	Japan	0.9980	Papua N.G.	0.7548	Uruguay	0.9838
Colombia	0.8974	Jordan	0.9720	Paraguay	0.8639	USA	0.9922
Congo	0.3075	Kazakhstan	0.8303	Peru	0.7464	Uzbekistan	0.9676
Cote d'Ivoire	0.2516	Kenya	0.1680	Philippines	0.8387	Venezuela	0.9340
Croatia	0.9997	Kuwait	1.0000	Poland	0.9955	Vietnam	0.8988
Czech Rep.	0.9989	Kyrgyzstan	0.9226	Portugal	1.0000	Yemen	0.5284
D.R. Congo	0.1761	Laos	0.4613	Romania	0.9653	Zambia	0.3774
Denmark	0.9976	Latvia	0.9639	Russia	0.9502	Zimbabwe	0.0839

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7351	Min	0.0000	Std. Deviation	0.3272	5 Percentile	0.0839
Missing	0	Median	0.9142	Max	1.0000			95 Percentile	1.0000



**Indicator: Metals concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** It is a widely used bulk measure of metals concentration and salinity. Siemens is a unit of electric conductivity. High levels of conductivity correspond to high concentrations of metals.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2005**Units:** micro-Siemens per centimeter**Most recent data**

Albania	716.2300	Ecuador	338.0800	Lebanon	1,084.2300	Rwanda	218.1000
Algeria	854.2200	Egypt	1,092.3900	Lithuania	607.0000	Saudi Arabia	1,305.8000
Angola	362.4500	El Salvador	310.4700	Macedonia, FYR	579.1900	Senegal	729.6300
Argentina	118.6200	Estonia	598.0300	Madagascar	13.6200	Sierra Leone	280.4900
Armenia	662.9600	Ethiopia	571.5200	Malawi	302.0000	Slovakia	497.3200
Australia	267.2300	Finland	53.1400	Malaysia	504.4800	Slovenia	369.5900
Austria	317.0300	France	321.5700	Mali	120.7700	South Africa	863.7100
Azerbaijan	934.8900	Gabon	149.1900	Mauritania	500.8100	South Korea	145.2900
Bangladesh	231.6000	Gambia	478.0100	Mexico	1,239.6300	Spain	1,086.9000
Belarus	547.7500	Georgia	560.1200	Moldova	883.1000	Sri Lanka	722.2200
Belgium	573.6200	Germany	863.3000	Mongolia	525.3600	Sudan	346.5400
Benin	621.5600	Ghana	722.6200	Morocco	1,620.5000	Sweden	152.9700
Bolivia	235.3300	Greece	385.9600	Mozambique	13.6200	Switzerland	285.9500
Botswana	341.5800	Guatemala	648.1200	Namibia	319.4100	Syria	683.3000
Brazil	296.7400	Guinea	314.3500	Nepal	637.2000	Tajikistan	553.9100
Bulgaria	543.5000	Guinea Bis.	347.2000	Netherlands	623.1200	Tanzania	922.3700
Burkina Faso	842.3400	Hondura	770.5000	New Zealand	111.5400	Thailand	490.4100
Burundi	683.8600	Hungary	711.7100	Nicaragua	13.6200	Togo	714.1400
C. African R.	182.7600	India	2,240.7000	Niger	588.1400	Tunisia	850.1300
Cambodia	13.6200	Indonesia	167.1300	Nigeria	232.6300	Turkey	2,247.4000
Cameroon	306.1900	Iran	627.0400	Norway	13.6200	UAE	849.4300
Canada	153.2900	Ireland	457.1000	Oman	613.5300	Uganda	35.7100
Chad	279.6600	Israel	730.5300	Pakistan	492.4600	UK	368.0700
Chile	417.3600	Italy	505.5200	Panama	367.9300	Ukraine	1,190.9500
China	522.7800	Japan	163.4300	Papua N.G.	13.6200	Uruguay	380.0500
Colombia	565.7600	Jordan	1,245.8300	Paraguay	59.1600	USA	663.2700
Congo	13.6200	Kazakhstan	1,038.8400	Peru	809.2100	Uzbekistan	1,158.1800
Cote d'Ivoire	620.0700	Kenya	325.8800	Philippines	136.7000	Venezuela	737.2600
Croatia	387.0000	Kuwait	405.7100	Poland	969.1200	Vietnam	559.8700
Czech Rep.	1,150.5000	Kyrgyzstan	745.8800	Portugal	52.1000	Yemen	327.7900
D.R. Congo	155.5700	Laos	20.8800	Romania	657.2400	Zambia	13.6200
Denmark	382.9200	Latvia	685.5900	Russia	39.1400	Zimbabwe	914.3300

**Descriptive Statistics - based on most recent data**

Available	128	Mean	533.6520	Min	13.6200	Std. Deviation	396.6314	5 Percentile	13.6200
Missing	0	Median	502.6450	Max	2,247.4000			95 Percentile	1,179.4805



## Normalization

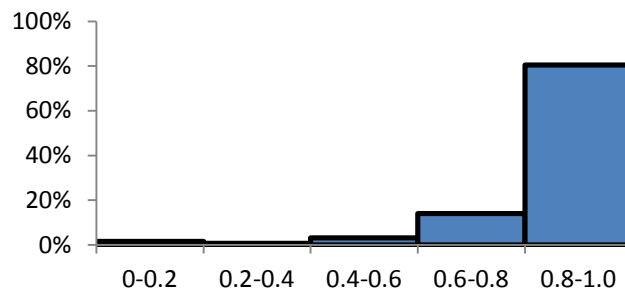
Type SB (smaller is better) Parameters U=438.8086 T=2,247.4000  
 Comments T=average of EU-14 U=max

## Smoothed data

Albania	0.8466	Ecuador	1.0000	Lebanon	0.6431	Rwanda	1.0000
Algeria	0.7703	Egypt	0.6386	Lithuania	0.9070	Saudi Arabia	0.5206
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.9224	Senegal	0.8392
Argentina	1.0000	Estonia	0.9120	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	0.8761	Ethiopia	0.9266	Malawi	1.0000	Slovakia	0.9676
Australia	1.0000	Finland	1.0000	Malaysia	0.9637	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	1.0000	South Africa	0.7651
Azerbaijan	0.7257	Gabon	1.0000	Mauritania	0.9657	South Korea	1.0000
Bangladesh	1.0000	Gambia	0.9783	Mexico	0.5572	Spain	0.6417
Belarus	0.9398	Georgia	0.9329	Moldova	0.7543	Sri Lanka	0.8433
Belgium	0.9255	Germany	0.7653	Mongolia	0.9521	Sudan	1.0000
Benin	0.8990	Ghana	0.8431	Morocco	0.3466	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.8843	Namibia	1.0000	Syria	0.8648
Brazil	1.0000	Guinea	1.0000	Nepal	0.8903	Tajikistan	0.9364
Bulgaria	0.9421	Guinea Bis.	1.0000	Netherlands	0.8981	Tanzania	0.7326
Burkina Faso	0.7769	Hondura	0.8166	New Zealand	1.0000	Thailand	0.9715
Burundi	0.8645	Hungary	0.8491	Nicaragua	1.0000	Togo	0.8478
C. African R.	1.0000	India	0.0037	Niger	0.9174	Tunisia	0.7726
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.0000
Cameroon	1.0000	Iran	0.8959	Norway	1.0000	UAE	0.7730
Canada	1.0000	Ireland	0.9899	Oman	0.9034	Uganda	1.0000
Chad	1.0000	Israel	0.8387	Pakistan	0.9703	UK	1.0000
Chile	1.0000	Italy	0.9631	Panama	1.0000	Ukraine	0.5841
China	0.9536	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.9298	Jordan	0.5538	Paraguay	1.0000	USA	0.8759
Congo	1.0000	Kazakhstan	0.6682	Peru	0.7952	Uzbekistan	0.6022
Cote d'Ivoire	0.8998	Kenya	1.0000	Philippines	1.0000	Venezuela	0.8350
Croatia	1.0000	Kuwait	1.0000	Poland	0.7068	Vietnam	0.9331
Czech Rep.	0.6065	Kyrgyzstan	0.8302	Portugal	1.0000	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	0.8792	Zambia	1.0000
Denmark	1.0000	Latvia	0.8636	Russia	1.0000	Zimbabwe	0.7371

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8916	Min	0.0000	Std. Deviation	0.1720	5 Percentile	0.5905
Missing	0	Median	0.9647	Max	1.0000			95 Percentile	1.0000





**Indicator: Military spending****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** For members of the North Atlantic Treaty Organization (NATO) it is based on the NATO definition, which covers military-related expenditures of the defense ministry and other ministries. Civilian-type expenditures of the defense ministry are excluded. Military assistance is included in the expenditure of the donor country. Purchases of military equipment on credit are recorded at the time the debt is incurred, not at the time of payment. Data for non-NATO countries generally cover expenditure of the ministry of defense; excluded are expenditures on public order and safety, which are classified separately.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** percent of GDP**Most recent data**

Albania	1.2433	Ecuador	2.3565	Lebanon	4.3432	Rwanda	3.0217
Algeria	3.3164	Egypt	2.7653	Lithuania	1.9323	Saudi Arabia	8.7416
Angola	4.8872	El Salvador	0.0814	Macedonia, FYR	2.7823	Senegal	1.4492
Argentina	1.1261	Estonia	1.8467	Madagascar	1.4355	Sierra Leone	2.0934
Armenia	2.7413	Ethiopia	4.4939	Malawi	0.8297	Slovakia	1.8126
Australia	1.8452	Finland	1.2007	Malaysia	2.3252	Slovenia	1.5437
Austria	0.7759	France	2.5823	Mali	2.0413	South Africa	1.6772
Azerbaijan	1.9399	Gabon	0.3303	Mauritania	1.7733	South Korea	2.4158
Bangladesh	1.1619	Gambia	0.6229	Mexico	0.4697	Spain	1.1777
Belarus	1.2298	Georgia	1.0671	Moldova	0.4011	Sri Lanka	2.5337
Belgium	1.2906	Germany	1.4526	Mongolia	2.1277	Sudan	2.1966
Benin	1.7787	Ghana	0.6639	Morocco	4.2331	Sweden	1.7491
Bolivia	1.7449	Greece	4.1351	Mozambique	2.4330	Switzerland	0.9578
Botswana	3.9746	Guatemala	0.4837	Namibia	2.7643	Syria	6.9074
Brazil	1.4852	Guinea	2.9179	Nepal	1.5420	Tajikistan	1.3490
Bulgaria	2.6010	Guinea Bis.	3.1066	Netherlands	1.6031	Tanzania	1.4625
Burkina Faso	1.3150	Hondura	0.7577	New Zealand	1.0400	Thailand	1.2873
Burundi	6.2044	Hungary	1.8381	Nicaragua	0.8707	Togo	1.6391
C. African R.	1.1307	India	2.2817	Niger	0.9430	Tunisia	1.5970
Cambodia	2.3029	Indonesia	1.1978	Nigeria	1.0190	Turkey	4.8569
Cameroon	1.5379	Iran	4.4817	Norway	1.9863	UAE	3.5998
Canada	1.1719	Ireland	0.6417	Oman	12.2653	Uganda	2.5059
Chad	1.5003	Israel	8.7250	Pakistan	4.0653	UK	2.3738
Chile	3.4813	Italy	1.8772	Panama	0.9741	Ukraine	2.9035
China	2.3362	Japan	0.9935	Papua N.G.	0.8933	Uruguay	1.1263
Colombia	3.9800	Jordan	8.5338	Paraguay	0.7344	USA	4.0765
Congo	1.3697	Kazakhstan	0.9439	Peru	1.4548	Uzbekistan	0.8348
Cote d'Ivoire	1.5510	Kenya	1.7154	Philippines	1.0062	Venezuela	1.3191
Croatia	2.0666	Kuwait	12.4807	Poland	1.8633	Vietnam	2.6494
Czech Rep.	2.0673	Kyrgyzstan	1.3786	Portugal	2.1307	Yemen	6.9518
D.R. Congo	0.9768	Laos	2.0740	Romania	2.3609	Zambia	0.5759
Denmark	1.5714	Latvia	1.7506	Russia	4.3093	Zimbabwe	3.5217

**Descriptive Statistics - based on most recent data**

Available	128	Mean	2.3699	Min	0.0814	Std. Deviation	2.0549	5 Percentile	0.6295
Missing	0	Median	1.7760	Max	12.4807			95 Percentile	6.6614

## Normalization

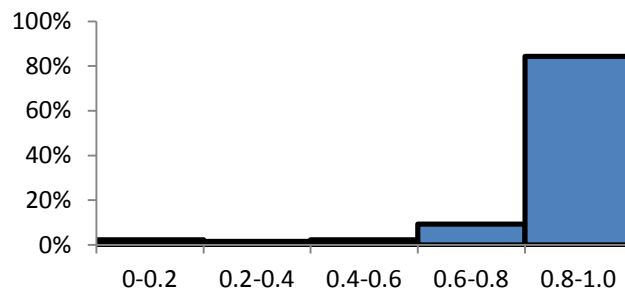
Type *SB (smaller is better)* Parameters *U=1.7544* *T=12.4807*  
 Comments *T=average of EU-14* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	0.9439	Lebanon	0.7374	Rwanda	0.8461
Algeria	0.8544	Egypt	0.9058	Lithuania	0.9917	Saudi Arabia	0.1814
Angola	0.7079	El Salvador	1.0000	Macedonia, FYR	0.8917	Senegal	0.9998
Argentina	1.0000	Estonia	0.9914	Madagascar	1.0000	Sierra Leone	0.9380
Armenia	0.8991	Ethiopia	0.7446	Malawi	1.0000	Slovakia	0.9946
Australia	0.9915	Finland	1.0000	Malaysia	0.9467	Slovenia	1.0000
Austria	1.0000	France	0.9228	Mali	0.9601	South Africa	1.0000
Azerbaijan	0.9827	Gabon	1.0000	Mauritania	0.9982	South Korea	0.9383
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	0.9998	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.9273
Belgium	1.0000	Germany	1.0000	Mongolia	0.9652	Sudan	0.9588
Benin	0.9977	Ghana	1.0000	Morocco	0.7689	Sweden	0.9975
Bolivia	0.9979	Greece	0.7781	Mozambique	0.9376	Switzerland	1.0000
Botswana	0.7930	Guatemala	1.0000	Namibia	0.9059	Syria	0.5304
Brazil	1.0000	Guinea	0.8915	Nepal	1.0000	Tajikistan	0.9958
Bulgaria	0.9223	Guinea Bis.	0.8737	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.5718	Hungary	0.9922	Nicaragua	1.0000	Togo	0.9999
C. African R.	1.0000	India	0.9508	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9347	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.7103
Cameroon	1.0000	Iran	0.7599	Norway	0.9772	UAE	0.8280
Canada	1.0000	Ireland	1.0000	Oman	0.0495	Uganda	0.9299
Chad	1.0000	Israel	0.3501	Pakistan	0.7846	UK	0.9423
Chile	0.8390	Italy	0.9847	Panama	1.0000	Ukraine	0.8939
China	0.9458	Japan	1.0000	Papua N.G.	1.0000	Uruguay	0.9982
Colombia	0.7923	Jordan	0.3239	Paraguay	1.0000	USA	0.7835
Congo	1.0000	Kazakhstan	1.0000	Peru	0.9999	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	0.9989
Croatia	0.9709	Kuwait	0.0000	Poland	0.9899	Vietnam	0.9166
Czech Rep.	0.9708	Kyrgyzstan	0.9993	Portugal	0.9649	Yemen	0.5436
D.R. Congo	1.0000	Laos	0.9703	Romania	0.9436	Zambia	0.9993
Denmark	1.0000	Latvia	1.0000	Russia	0.7650	Zimbabwe	0.8208

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9125	Min	0.0000	Std. Deviation	0.1790	5 Percentile	0.5535
Missing	0	Median	0.9966	Max	1.0000			95 Percentile	1.0000



**Indicator: Mortality from poor air quality****Primary indicator:** Ecological Sustainability (ECOS), Human Sustainability (HUMS)**Secondary indicator:** Air, Health**Tertiary indicator:** Pressure, State**Explanation:** Disease burden attributable to air-related environmental risk factor. The number of deaths from poor air quality refers to outdoor air pollution, as well as indoor air pollution (mainly the disease burden by household exposures to indoor smoke from solid fuels). A large number of important disease conditions have been linked to air pollution.**Sources:** World Health Organization ([http://www.who.int/quantifying\\_ehimpacts/en](http://www.who.int/quantifying_ehimpacts/en))**Period:** 1990-2005**Units:** number of deaths per 100,000 population**Most recent data**

Albania	79.5922	Ecuador	46.8380	Lebanon	166.8684	Rwanda	1,003.3296
Algeria	73.5624	Egypt	222.6716	Lithuania	202.0183	Saudi Arabia	102.0418
Angola	1,805.2157	El Salvador	109.1190	Macedonia, FYR	97.7699	Senegal	639.2913
Argentina	321.2164	Estonia	74.7389	Madagascar	727.1051	Sierra Leone	1,679.1131
Armenia	553.3971	Ethiopia	851.2053	Malawi	1,170.9079	Slovakia	74.0990
Australia	35.8167	Finland	38.4804	Malaysia	22.9498	Slovenia	151.0656
Austria	135.6182	France	80.2010	Mali	1,394.3090	South Africa	44.6836
Azerbaijan	385.6956	Gabon	153.1265	Mauritania	890.5868	South Korea	143.3685
Bangladesh	376.8901	Gambia	576.1804	Mexico	94.1500	Spain	141.5417
Belarus	20.1211	Georgia	444.2609	Moldova	257.5880	Sri Lanka	216.8201
Belgium	194.2542	Germany	126.1915	Mongolia	117.2136	Sudan	246.3636
Benin	1,006.3508	Ghana	302.8644	Morocco	43.2300	Sweden	56.3868
Bolivia	254.4800	Greece	255.2532	Mozambique	571.8228	Switzerland	111.5542
Botswana	115.8318	Guatemala	307.4177	Namibia	152.9704	Syria	115.0672
Brazil	96.4499	Guinea	143.5573	Nepal	333.2132	Tajikistan	338.9819
Bulgaria	439.4272	Guinea Bis.	897.2454	Netherlands	224.0634	Tanzania	785.6347
Burkina Faso	1,790.1940	Hondura	147.4777	New Zealand	26.0032	Thailand	118.9838
Burundi	1,030.0426	Hungary	191.4785	Nicaragua	149.9519	Togo	895.6730
C. African R.	772.4426	India	502.7869	Niger	1,221.3979	Tunisia	82.2344
Cambodia	130.3448	Indonesia	203.1030	Nigeria	774.9489	Turkey	302.9082
Cameroun	947.2834	Iran	135.1542	Norway	88.6194	UAE	136.1936
Canada	86.3418	Ireland	12.7850	Oman	108.3703	Uganda	799.8877
Chad	1,114.0787	Israel	237.9385	Pakistan	663.0610	UK	209.9277
Chile	147.3106	Italy	146.1317	Panama	81.6054	Ukraine	314.9179
China	503.9518	Japan	186.6995	Papua N.G.	286.4223	Uruguay	383.3763
Colombia	105.6829	Jordan	93.8296	Paraguay	121.9493	USA	141.5623
Congo	330.3071	Kazakhstan	151.9193	Peru	171.8554	Uzbekistan	373.4612
Cote d'Ivoire	611.0591	Kenya	431.1927	Philippines	137.4391	Venezuela	3.9641
Croatia	202.7694	Kuwait	122.7788	Poland	155.3516	Vietnam	210.5179
Czech Rep.	165.9234	Kyrgyzstan	394.7034	Portugal	189.0813	Yemen	414.1788
D.R. Congo	976.5427	Laos	443.1018	Romania	433.2796	Zambia	906.7166
Denmark	112.1199	Latvia	21.4675	Russia	260.9632	Zimbabwe	194.7781

**Descriptive Statistics - based on most recent data**

Available	128	Mean	356.6243	Min	3.9641	Std. Deviation	376.8228	5 Percentile	36.7490
Missing	0	Median	198.3982	Max	1,805.2157			95 Percentile	1,084.6660

## Normalization

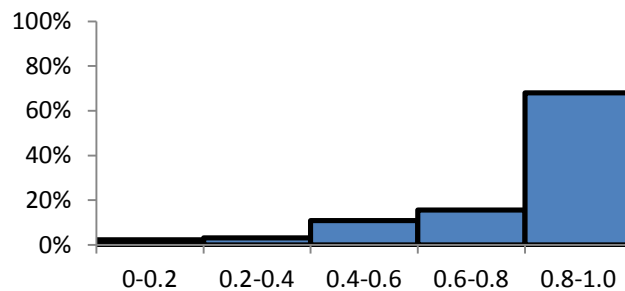
Type *SB (smaller is better)* Parameters *U=12.7850* *T=1,805.2157*  
 Comments *T=minimum of EU-14* *U=max*

## Smoothed data

Albania	0.9627	Ecuador	0.9810	Lebanon	0.9140	Rwanda	0.4474
Algeria	0.9661	Egypt	0.8829	Lithuania	0.8944	Saudi Arabia	0.9502
Angola	0.0000	El Salvador	0.9463	Macedonia, FYR	0.9526	Senegal	0.6505
Argentina	0.8279	Estonia	0.9654	Madagascar	0.6015	Sierra Leone	0.0704
Armenia	0.6984	Ethiopia	0.5322	Malawi	0.3539	Slovakia	0.9658
Australia	0.9872	Finland	0.9857	Malaysia	0.9943	Slovenia	0.9229
Austria	0.9315	France	0.9624	Mali	0.2292	South Africa	0.9822
Azerbaijan	0.7920	Gabon	0.9217	Mauritania	0.5103	South Korea	0.9271
Bangladesh	0.7969	Gambia	0.6857	Mexico	0.9546	Spain	0.9282
Belarus	0.9959	Georgia	0.7593	Moldova	0.8634	Sri Lanka	0.8862
Belgium	0.8988	Germany	0.9367	Mongolia	0.9417	Sudan	0.8697
Benin	0.4457	Ghana	0.8382	Morocco	0.9830	Sweden	0.9757
Bolivia	0.8652	Greece	0.8647	Mozambique	0.6881	Switzerland	0.9449
Botswana	0.9425	Guatemala	0.8356	Namibia	0.9218	Syria	0.9429
Brazil	0.9533	Guinea	0.9270	Nepal	0.8212	Tajikistan	0.8180
Bulgaria	0.7620	Guinea Bis.	0.5066	Netherlands	0.8821	Tanzania	0.5688
Burkina Faso	0.0084	Hondura	0.9249	New Zealand	0.9926	Thailand	0.9408
Burundi	0.4325	Hungary	0.9003	Nicaragua	0.9235	Togo	0.5074
C. African R.	0.5762	India	0.7266	Niger	0.3257	Tunisia	0.9613
Cambodia	0.9344	Indonesia	0.8938	Nigeria	0.5748	Turkey	0.8381
Cameroon	0.4786	Iran	0.9317	Norway	0.9577	UAE	0.9312
Canada	0.9590	Ireland	1.0000	Oman	0.9467	Uganda	0.5609
Chad	0.3856	Israel	0.8744	Pakistan	0.6372	UK	0.8900
Chile	0.9249	Italy	0.9256	Panama	0.9616	Ukraine	0.8314
China	0.7260	Japan	0.9030	Papua N.G.	0.8473	Uruguay	0.7932
Colombia	0.9482	Jordan	0.9548	Paraguay	0.9391	USA	0.9282
Congo	0.8229	Kazakhstan	0.9224	Peru	0.9113	Uzbekistan	0.7988
Cote d'Ivoire	0.6662	Kenya	0.7666	Philippines	0.9305	Venezuela	1.0000
Croatia	0.8940	Kuwait	0.9386	Poland	0.9205	Vietnam	0.8897
Czech Rep.	0.9146	Kyrgyzstan	0.7869	Portugal	0.9016	Yemen	0.7761
D.R. Congo	0.4623	Laos	0.7599	Romania	0.7654	Zambia	0.5013
Denmark	0.9446	Latvia	0.9952	Russia	0.8615	Zimbabwe	0.8985

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8081	Min	0.0000	Std. Deviation	0.2102	5 Percentile	0.4020
Missing	0	Median	0.8964	Max	1.0000			95 Percentile	0.9866



## Indicator: **Municipal waste generation**

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Waste collected and treated by or for municipalities. It covers waste from households (including bulky waste), similar waste from commerce and trade, office buildings, institutions and small businesses, yard and garden waste, street sweepings, the contents of litter containers, and market cleaning waste. The definition excludes waste from municipal sewage networks and treatment, as well as municipal construction and demolition waste. Reducing waste generation improves land sustainability.

**Sources:** European Environment Agency  
(<http://dataservice.eea.europa.eu/atlas/viewdata/viewpub.asp?id=1739>)  
United Nations Environment Programme/United Nations Statistics Division  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1537](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1537))  
([http://unstats.un.org/unsd/environment/Questionnaires/country\\_snapshots.htm](http://unstats.un.org/unsd/environment/Questionnaires/country_snapshots.htm))

**Period:** 1990-2005

**Units:** kg per capita per year

### Most recent data

Albania	202.5800	Ecuador	-	Lebanon	419.0000	Rwanda	270.0000*
Algeria	266.7400	Egypt	211.0000	Lithuania	392.0000	Saudi Arabia	-
Angola	270.0000*	El Salvador	-	Macedonia, FYR	-	Senegal	270.0000*
Argentina	-	Estonia	436.0000	Madagascar	18.8300	Sierra Leone	270.0000*
Armenia	270.0000	Ethiopia	270.0000*	Malawi	270.0000*	Slovakia	270.0000
Australia	690.0000	Finland	470.0000	Malaysia	305.7700	Slovenia	431.0000
Austria	560.0000	France	540.0000	Mali	270.0000*	South Africa	430.0000
Azerbaijan	209.0000	Gabon	270.0000*	Mauritania	270.0000*	South Korea	380.0000
Bangladesh	188.1700	Gambia	270.0000*	Mexico	340.0000	Spain	650.0000
Belarus	271.0000	Georgia	307.0000	Moldova	290.0000	Sri Lanka	335.8000
Belgium	462.0000	Germany	600.0000	Mongolia	217.4000	Sudan	270.0000*
Benin	128.6000	Ghana	270.0000*	Morocco	163.4600	Sweden	480.0000
Bolivia	85.0000	Greece	440.0000	Mozambique	270.0000*	Switzerland	650.0000
Botswana	270.0000*	Guatemala	51.5800	Namibia	270.0000*	Syria	317.0000
Brazil	370.0000	Guinea	270.0000*	Nepal	193.1000	Tajikistan	-
Bulgaria	464.0000	Guinea Bis.	270.0000*	Netherlands	620.0000	Tanzania	270.0000*
Burkina Faso	270.0000*	Hondura	270.0000	New Zealand	635.0000	Thailand	399.1000
Burundi	270.0000*	Hungary	460.0000	Nicaragua	-	Togo	270.0000*
C. African R.	270.0000*	India	106.0000	Niger	270.0000*	Tunisia	132.5000
Cambodia	-	Indonesia	305.0000	Nigeria	270.0000*	Turkey	440.0000
Cameroon	270.0000*	Iran	-	Norway	760.0000	UAE	471.0000
Canada	414.0000	Ireland	740.0000	Oman	-	Uganda	270.0000*
Chad	270.0000*	Israel	620.0000	Pakistan	-	UK	580.0000
Chile	300.0000	Italy	540.0000	Panama	-	Ukraine	180.0000
China	120.0000	Japan	400.0000	Papua N.G.	-	Uruguay	264.0000
Colombia	455.6100	Jordan	293.0000	Paraguay	-	USA	750.0000
Congo	270.0000*	Kazakhstan	-	Peru	179.8100	Uzbekistan	-
Cote d'Ivoire	270.0000*	Kenya	270.0000*	Philippines	327.7000	Venezuela	-
Croatia	504.0000	Kuwait	300.0000	Poland	250.0000	Vietnam	220.6300
Czech Rep.	290.0000	Kyrgyzstan	314.5600	Portugal	470.0000	Yemen	60.6400
D.R. Congo	270.0000*	Laos	274.0000	Romania	340.0000	Zambia	33.3400
Denmark	740.0000	Latvia	290.0000	Russia	440.0000	Zimbabwe	270.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	111	Mean	337.2605	Min	18.8300	Std. Deviation	158.1672	5 Percentile	113.0000
Missing	17	Median	270.0000	Max	760.0000			95 Percentile	650.0000

## Normalization

Type SB (smaller is better)

Parameters

U=300.0000

T=760.0000

Comments

T=EU target of annual waste generation

U=max

## Smoothed data

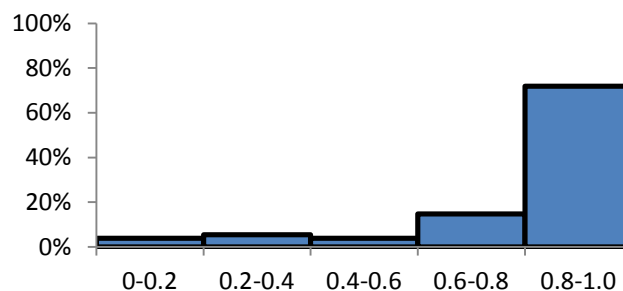
Albania	1.0000	Ecuador	1.0000**	Lebanon	0.7413	Rwanda	1.0000*
Algeria	1.0000	Egypt	1.0000	Lithuania	0.8000	Saudi Arabia	1.0000**
Angola	1.0000*	El Salvador	1.0000**	Macedonia, FYR	0.7783**	Senegal	1.0000*
Argentina	1.0000**	Estonia	0.7680	Madagascar	1.0000	Sierra Leone	1.0000*
Armenia	1.0000	Ethiopia	1.0000*	Malawi	1.0000*	Slovakia	0.9490
Australia	0.1522	Finland	0.6304	Malaysia	0.9875	Slovenia	0.7152
Austria	0.4348	France	0.4783	Mali	1.0000*	South Africa	0.7174
Azerbaijan	1.0000	Gabon	1.0000*	Mauritania	1.0000*	South Korea	0.8261
Bangladesh	1.0000	Gambia	1.0000*	Mexico	0.9511	Spain	0.2392
Belarus	1.0000	Georgia	0.9848	Moldova	1.0000	Sri Lanka	0.9222
Belgium	0.5966	Germany	0.3478	Mongolia	1.0000	Sudan	1.0000*
Benin	1.0000	Ghana	1.0000*	Morocco	1.0000	Sweden	0.6087
Bolivia	1.0000	Greece	0.6957	Mozambique	1.0000*	Switzerland	0.2420
Botswana	1.0000*	Guatemala	1.0000	Namibia	1.0000*	Syria	0.9630
Brazil	0.8478	Guinea	1.0000*	Nepal	1.0000	Tajikistan	0.8989**
Bulgaria	0.6435	Guinea Bis.	1.0000*	Netherlands	0.3043	Tanzania	1.0000*
Burkina Faso	1.0000*	Hondura	1.0000	New Zealand	0.2717	Thailand	0.7846
Burundi	1.0000*	Hungary	0.6522	Nicaragua	1.0000**	Togo	1.0000*
C. African R.	1.0000*	India	1.0000	Niger	1.0000*	Tunisia	1.0000
Cambodia	0.9891**	Indonesia	0.9891	Nigeria	1.0000*	Turkey	0.6957
Cameroon	1.0000*	Iran	0.8989**	Norway	0.0407	UAE	0.6283
Canada	0.7522	Ireland	0.0435	Oman	1.0000**	Uganda	1.0000*
Chad	1.0000*	Israel	0.3043	Pakistan	1.0000**	UK	0.3913
Chile	1.0000	Italy	0.4783	Panama	1.0000**	Ukraine	1.0000
China	1.0000	Japan	0.7717	Papua N.G.	1.0000**	Uruguay	1.0000
Colombia	0.6617	Jordan	1.0000	Paraguay	1.0000**	USA	0.0326
Congo	1.0000*	Kazakhstan	0.9949**	Peru	1.0000	Uzbekistan	0.8989**
Cote d'Ivoire	1.0000*	Kenya	1.0000*	Philippines	0.9398	Venezuela	1.0000**
Croatia	0.5565	Kuwait	1.0000	Poland	0.9997	Vietnam	1.0000
Czech Rep.	0.9802	Kyrgyzstan	0.8989	Portugal	0.6304	Yemen	1.0000
D.R. Congo	1.0000*	Laos	1.0000	Romania	0.9028	Zambia	1.0000
Denmark	0.0435	Latvia	0.9533	Russia	0.6957	Zimbabwe	1.0000*

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8524	Min	0.0326	Std. Deviation	0.2532	5 Percentile	0.2524
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Nuclear waste generation

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Nuclear waste is primarily due to spent fuel from nuclear power plants. It is assumed that nuclear waste influences land sustainability negatively due mainly to generation of heavy radioactive metals.

**Sources:** OECD (2005a); United Nations Environment Programme ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1543](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1543))

**Period:** 1990-2005

**Units:** tons of heavy radioactive metals per capita per year

### Most recent data

Albania	0.0000*	Ecuador	0.0000*	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0000*	Egypt	0.0000*	Lithuania	-	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	0.0000*
Argentina	-	Estonia	0.0000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.0108
Australia	0.0000	Finland	0.0406	Malaysia	0.0000*	Slovenia	-
Austria	0.0000	France	0.0181	Mali	0.0000*	South Africa	-
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	0.0126
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	0.0002	Spain	0.0036
Belarus	0.0593	Georgia	0.0000*	Moldova	0.0593	Sri Lanka	0.0000*
Belgium	0.0109	Germany	0.0051	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.0000*	Sweden	0.0222
Bolivia	0.0000*	Greece	0.0000	Mozambique	0.0000*	Switzerland	0.0086
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	-	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.0593	Guinea Bis.	0.0000*	Netherlands	0.0006	Tanzania	0.0000*
Burkina Faso	0.0000*	Hondura	0.0000*	New Zealand	0.0000	Thailand	0.0000*
Burundi	-	Hungary	0.0047	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	-	Niger	0.0000*	Tunisia	0.0000*
Cambodia	0.0000*	Indonesia	0.0000*	Nigeria	0.0000*	Turkey	0.0000
Cameroon	0.0000*	Iran	-	Norway	0.0000	UAE	0.0000*
Canada	0.0464	Ireland	0.0000	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	-	Pakistan	-	UK	0.0123
Chile	0.0000*	Italy	0.0000	Panama	0.0000*	Ukraine	0.0593
China	-	Japan	0.0077	Papua N.G.	0.0000*	Uruguay	0.0000*
Colombia	0.0000*	Jordan	0.0000*	Paraguay	0.0000*	USA	0.0073
Congo	0.0000*	Kazakhstan	0.0000*	Peru	0.0000*	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.0000*	Philippines	0.0000*	Venezuela	0.0000*
Croatia	0.0000*	Kuwait	0.0000*	Poland	0.0000	Vietnam	0.0000*
Czech Rep.	0.0061	Kyrgyzstan	0.0000*	Portugal	0.0000	Yemen	0.0000*
D.R. Congo	-	Laos	0.0000*	Romania	-	Zambia	0.0000*
Denmark	0.0000	Latvia	0.0000*	Russia	0.0593	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	115	Mean	0.0045	Min	0.0000	Std. Deviation	0.0135	5 Percentile	0.0000
Missing	13	Median	0.0000	Max	0.0593			95 Percentile	0.0424



## Normalization

Type SB (smaller is better) Parameters U=0.0000 T=0.0593  
 Comments T=min U=max

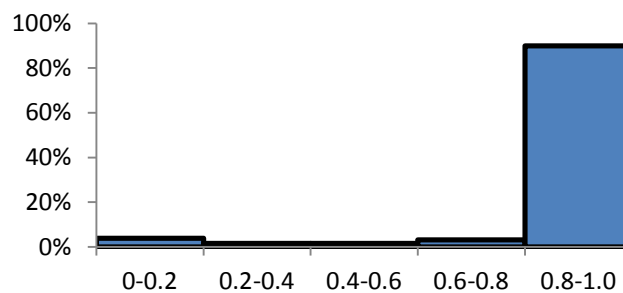
## Smoothed data

Albania	1.0000*	Ecuador	1.0000*	Lebanon	1.0000*	Rwanda	1.0000*
Algeria	1.0000*	Egypt	1.0000*	Lithuania	1.0000**	Saudi Arabia	1.0000*
Angola	1.0000*	El Salvador	1.0000*	Macedonia, FYR	1.0000*	Senegal	1.0000*
Argentina	1.0000**	Estonia	1.0000*	Madagascar	1.0000*	Sierra Leone	1.0000*
Armenia	1.0000	Ethiopia	1.0000*	Malawi	1.0000*	Slovakia	0.8221
Australia	1.0000	Finland	0.3459	Malaysia	1.0000*	Slovenia	0.7940**
Austria	1.0000	France	0.6887	Mali	1.0000*	South Africa	1.0000**
Azerbaijan	1.0000*	Gabon	1.0000*	Mauritania	1.0000*	South Korea	0.7874
Bangladesh	1.0000*	Gambia	1.0000*	Mexico	0.9966	Spain	0.9357
Belarus	0.0000	Georgia	1.0000*	Moldova	0.0000	Sri Lanka	1.0000*
Belgium	0.8122	Germany	0.9141	Mongolia	1.0000*	Sudan	1.0000*
Benin	1.0000*	Ghana	1.0000*	Morocco	1.0000*	Sweden	0.5475
Bolivia	1.0000*	Greece	1.0000	Mozambique	1.0000*	Switzerland	0.8548
Botswana	1.0000*	Guatemala	1.0000*	Namibia	1.0000*	Syria	1.0000*
Brazil	1.0000**	Guinea	1.0000*	Nepal	1.0000*	Tajikistan	1.0000*
Bulgaria	0.0000	Guinea Bis.	1.0000*	Netherlands	0.9895	Tanzania	1.0000*
Burkina Faso	1.0000*	Hondura	1.0000*	New Zealand	1.0000	Thailand	1.0000*
Burundi	1.0000**	Hungary	0.9207	Nicaragua	1.0000*	Togo	1.0000*
C. African R.	1.0000*	India	1.0000**	Niger	1.0000*	Tunisia	1.0000*
Cambodia	1.0000*	Indonesia	1.0000*	Nigeria	1.0000*	Turkey	1.0000
Cameroon	1.0000*	Iran	1.0000**	Norway	1.0000	UAE	1.0000*
Canada	0.2163	Ireland	1.0000	Oman	1.0000*	Uganda	1.0000*
Chad	1.0000*	Israel	1.0000**	Pakistan	1.0000**	UK	0.7940
Chile	1.0000*	Italy	1.0000	Panama	1.0000*	Ukraine	0.0000
China	1.0000**	Japan	0.8705	Papua N.G.	1.0000*	Uruguay	1.0000*
Colombia	1.0000*	Jordan	1.0000*	Paraguay	1.0000*	USA	0.8779
Congo	1.0000*	Kazakhstan	1.0000*	Peru	1.0000*	Uzbekistan	1.0000*
Cote d'Ivoire	1.0000*	Kenya	1.0000*	Philippines	1.0000*	Venezuela	1.0000*
Croatia	1.0000*	Kuwait	1.0000*	Poland	1.0000	Vietnam	1.0000*
Czech Rep.	0.8971	Kyrgyzstan	1.0000*	Portugal	1.0000	Yemen	1.0000*
D.R. Congo	1.0000**	Laos	1.0000*	Romania	0.4485**	Zambia	1.0000*
Denmark	1.0000	Latvia	1.0000*	Russia	0.0000	Zimbabwe	1.0000*

\* denotes estimated values \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9259	Min	0.0000	Std. Deviation	0.2214	5 Percentile	0.3819
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





**Indicator: Number of doctors****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** The term doctors includes physicians that are defined as graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, research).**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** number of doctors per thousand people**Most recent data**

Albania	1.3893	Ecuador	1.4763	Lebanon	3.2524	Rwanda	0.0187
Algeria	1.0000	Egypt	2.1178	Lithuania	4.0268	Saudi Arabia	1.3972
Angola	0.0770	El Salvador	1.2737	Macedonia, FYR	2.1912	Senegal	0.0950
Argentina	3.0095	Estonia	3.1603	Madagascar	0.1400	Sierra Leone	0.0730
Armenia	3.5259	Ethiopia	0.0286	Malawi	0.0113	Slovakia	3.6000
Australia	2.4913	Finland	3.1000	Malaysia	0.7020	Slovenia	2.1940
Austria	3.3000	France	3.3000	Mali	0.0444	South Africa	0.6921
Azerbaijan	3.5356	Gabon	0.2894	Mauritania	0.1380	South Korea	1.4000
Bangladesh	0.2307	Gambia	0.0350	Mexico	1.5000	Spain	2.9000
Belarus	4.4965	Georgia	3.9066	Moldova	2.6944	Sri Lanka	0.4282
Belgium	3.9000	Germany	3.3000	Mongolia	2.6658	Sudan	0.1582
Benin	0.0576	Ghana	0.0900	Morocco	0.4831	Sweden	3.0463
Bolivia	0.7334	Greece	4.3973	Mozambique	0.0244	Switzerland	3.6000
Botswana	0.2876	Guatemala	0.8960	Namibia	0.2950	Syria	1.3993
Brazil	2.0565	Guinea	0.0941	Nepal	0.0523	Tajikistan	2.1799
Bulgaria	3.3845	Guinea Bis.	0.1660	Netherlands	3.1000	Tanzania	0.0227
Burkina Faso	0.0400	Hondura	0.8320	New Zealand	2.1000	Thailand	0.3008
Burundi	0.0515	Hungary	3.1000	Nicaragua	1.6440	Togo	0.0566
C. African R.	0.0350	India	0.5126	Niger	0.0334	Tunisia	0.7000
Cambodia	0.1557	Indonesia	0.1624	Nigeria	0.2692	Turkey	1.3000
Cameroon	0.0740	Iran	1.0492	Norway	3.5558	UAE	2.0236
Canada	2.1000	Ireland	2.4000	Oman	1.2565	Uganda	0.0470
Chad	0.0253	Israel	3.9102	Pakistan	0.6624	UK	2.1000
Chile	1.0914	Italy	4.4000	Panama	1.6800	Ukraine	2.9739
China	1.6425	Japan	2.0000	Papua N.G.	0.0516	Uruguay	3.6521
Colombia	1.3500	Jordan	2.0497	Paraguay	1.1700	USA	5.4891
Congo	0.2510	Kazakhstan	3.6124	Peru	1.1670	Uzbekistan	2.8855
Cote d'Ivoire	0.0900	Kenya	0.1320	Philippines	1.1632	Venezuela	1.9392
Croatia	2.3739	Kuwait	1.5251	Poland	2.3000	Vietnam	0.5345
Czech Rep.	3.5000	Kyrgyzstan	2.6000	Portugal	3.2000	Yemen	0.2187
D.R. Congo	0.0690	Laos	0.5900	Romania	1.8870	Zambia	0.0690
Denmark	3.6626	Latvia	2.9143	Russia	4.1716	Zimbabwe	0.0573

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.5984	Min	0.0113	Std. Deviation	1.4198	5 Percentile	0.0340
Missing	0	Median	1.3696	Max	5.4891			95 Percentile	3.9090

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0113$   $\tau=3.4215$

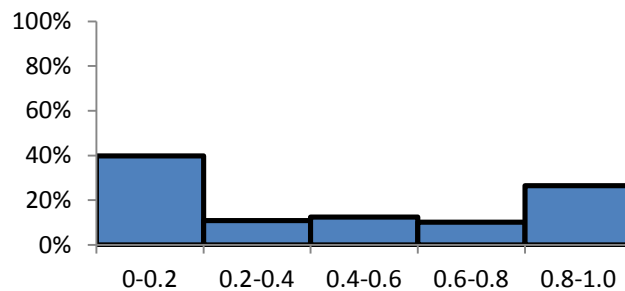
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.3985	Ecuador	0.4247	Lebanon	0.9504	Rwanda	0.0022
Algeria	0.2612	Egypt	0.5935	Lithuania	1.0000	Saudi Arabia	0.4238
Angola	0.0193	El Salvador	0.3702	Macedonia, FYR	0.6392	Senegal	0.0238
Argentina	0.8070	Estonia	0.9234	Madagascar	0.0392	Sierra Leone	0.0181
Armenia	0.9360	Ethiopia	0.0051	Malawi	0.0026	Slovakia	0.9823
Australia	0.7343	Finland	0.9057	Malaysia	0.2025	Slovenia	0.6349
Austria	0.9644	France	0.9644	Mali	0.0112	South Africa	0.1833
Azerbaijan	1.0000	Gabon	0.0815	Mauritania	0.0371	South Korea	0.4072
Bangladesh	0.0643	Gambia	0.0069	Mexico	0.4451	Spain	0.8502
Belarus	1.0000	Georgia	1.0000	Moldova	0.7868	Sri Lanka	0.1223
Belgium	1.0000	Germany	0.9704	Mongolia	0.7537	Sudan	0.0312
Benin	0.0137	Ghana	0.0231	Morocco	0.1384	Sweden	0.8900
Bolivia	0.1872	Greece	1.0000	Mozambique	0.0038	Switzerland	1.0000
Botswana	0.0810	Guatemala	0.2289	Namibia	0.0832	Syria	0.4015
Brazil	0.5997	Guinea	0.0243	Nepal	0.0120	Tajikistan	0.6359
Bulgaria	0.9894	Guinea Bis.	0.0454	Netherlands	0.9057	Tanzania	0.0033
Burkina Faso	0.0084	Hondura	0.2276	New Zealand	0.6156	Thailand	0.0855
Burundi	0.0118	Hungary	0.8889	Nicaragua	0.4788	Togo	0.0157
C. African R.	0.0093	India	0.1335	Niger	0.0065	Tunisia	0.1989
Cambodia	0.0601	Indonesia	0.0443	Nigeria	0.0756	Turkey	0.3779
Cameroon	0.0184	Iran	0.3043	Norway	1.0000	UAE	0.5901
Canada	0.6143	Ireland	0.7004	Oman	0.3651	Uganda	0.0105
Chad	0.0041	Israel	1.0000	Pakistan	0.1909	UK	0.6124
Chile	0.3189	Italy	1.0000	Panama	0.4622	Ukraine	0.8687
China	0.4787	Japan	0.5832	Papua N.G.	0.0160	Uruguay	0.9904
Colombia	0.3797	Jordan	0.5977	Paraguay	0.3398	USA	0.8460
Congo	0.0703	Kazakhstan	0.9784	Peru	0.3001	Uzbekistan	0.8428
Cote d'Ivoire	0.0231	Kenya	0.0354	Philippines	0.3381	Venezuela	0.5661
Croatia	0.6928	Kuwait	0.4500	Poland	0.6711	Vietnam	0.1475
Czech Rep.	1.0000	Kyrgyzstan	0.7591	Portugal	0.9350	Yemen	0.0600
D.R. Congo	0.0169	Laos	0.1697	Romania	0.5502	Zambia	0.0169
Denmark	1.0000	Latvia	0.8513	Russia	1.0000	Zimbabwe	0.0291

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4397	Min	0.0022	Std. Deviation	0.3756	5 Percentile	0.0066
Missing	0	Median	0.3891	Max	1.0000			95 Percentile	1.0000



## Indicator: Ozone-depleting substances per capita

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Air

**Tertiary indicator:** Pressure

**Explanation:** Consumption in ozone depleting potential (ODP) metric tons. An ozone depleting substance is any substance containing chlorine or bromine, which destroys the stratospheric ozone layer that absorbs most of the biologically damaging ultraviolet radiation. Ozone depleting potential (ODP) refers to the amount of ozone depletion caused by a substance. ODP is defined as the ratio of the impact on stratospheric ozone of a substance to the impact of the same mass of CFC-11. CFC-11 has an ODP of 1.

**Sources:** United Nations - MDG Indicators (<http://mdgs.un.org/unsd/mdg/Data.aspx>)  
United Nations Environment Programme-Ozone Secretariat (<http://ozone.unep.org/>)

**Period:** 1990-2005

**Units:** ODP metric tons per capita

### Most recent data

Albania	0.0046	Ecuador	0.0216	Lebanon	0.0991	Rwanda	0.0015
Algeria	0.0291	Egypt	0.0182	Lithuania	0.0038	Saudi Arabia	0.0495
Angola	0.0037	El Salvador	0.0202	Macedonia, FYR	0.0067	Senegal	0.0034
Argentina	0.0001	Estonia	0.0028	Madagascar	0.0005	Sierra Leone	0.0049
Armenia	0.0288	Ethiopia	0.0003	Malawi	0.0006	Slovakia	0.0007
Australia	0.0083	Finland	0.0000*	Malaysia	0.0269	Slovenia	0.0033
Austria	0.0000*	France	-	Mali	0.0020	South Africa	0.0153
Azerbaijan	0.0026	Gabon	0.0026	Mauritania	0.0024	South Korea	0.2373
Bangladesh	0.0020	Gambia	0.0006	Mexico	0.0370	Spain	-
Belarus	0.0001	Georgia	0.0077	Moldova	0.0036	Sri Lanka	0.0083
Belgium	-	Germany	-	Mongolia	0.0017	Sudan	0.0052
Benin	0.0012	Ghana	0.0011	Morocco	0.0197	Sweden	0.0000*
Bolivia	0.0032	Greece	-	Mozambique	0.0001	Switzerland	-0.0022
Botswana	0.0030	Guatemala	0.0465	Namibia	0.0000	Syria	0.0578
Brazil	0.0111	Guinea	0.0010	Nepal	0.0000	Tajikistan	0.0005
Bulgaria	0.0020	Guinea Bis.	0.0088	Netherlands	-	Tanzania	0.0026
Burkina Faso	0.0006	Hondura	0.0622	New Zealand	0.0103	Thailand	0.0361
Burundi	0.0006	Hungary	0.0034	Nicaragua	0.0077	Togo	0.0035
C. African R.	0.0007	India	0.0040	Niger	0.0011	Tunisia	0.0284
Cambodia	0.0036	Indonesia	0.0124	Nigeria	0.0038	Turkey	0.0110
Cameroon	0.0086	Iran	0.0359	Norway	-0.0015	UAE	0.1456
Canada	0.0184	Ireland	-	Oman	0.0289	Uganda	0.0002
Chad	0.0012	Israel	0.0804	Pakistan	0.0039	UK	-
Chile	0.0288	Italy	-	Panama	0.0351	Ukraine	0.0028
China	0.0241	Japan	0.0084	Papua N.G.	0.0032	Uruguay	0.0344
Colombia	0.0156	Jordan	0.0368	Paraguay	0.0452	USA	0.0366
Congo	0.0010	Kazakhstan	0.0026	Peru	0.0053	Uzbekistan	0.0001
Cote d'Ivoire	0.0042	Kenya	0.0078	Philippines	0.0148	Venezuela	0.0730
Croatia	0.0122	Kuwait	0.1475	Poland	0.0068	Vietnam	0.0055
Czech Rep.	0.0092	Kyrgyzstan	0.0032	Portugal	-	Yemen	0.0390
D.R. Congo	0.0054	Laos	0.0036	Romania	0.0106	Zambia	0.0018
Denmark	-	Latvia	0.0009	Russia	0.0054	Zimbabwe	0.0166

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	117	Mean	0.0169	Min	-0.0022	Std. Deviation	0.0324	5 Percentile	0.0000
Missing	11	Median	0.0046	Max	0.2373			95 Percentile	0.0644

## Normalization

Type *SB (smaller is better)*

Parameters

$U=0.0000$

$T=0.1475$

Comments

$T$ =minimum possible

$U$ =max (excluding 1% outliers)

## Smoothed data

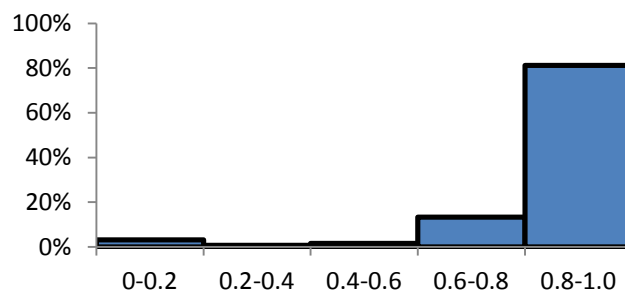
Albania	0.9690	Ecuador	0.8657	Lebanon	0.3277	Rwanda	0.9900
Algeria	0.8007	Egypt	0.8689	Lithuania	0.9745	Saudi Arabia	0.6640
Angola	0.9748	El Salvador	0.8664	Macedonia, FYR	0.9371	Senegal	0.9729
Argentina	0.9993	Estonia	0.8046	Madagascar	0.9958	Sierra Leone	0.9581
Armenia	0.7199	Ethiopia	0.9976	Malawi	0.9953	Slovakia	0.9956
Australia	0.9435	Finland	1.0000*	Malaysia	0.8174	Slovenia	0.9776
Austria	1.0000*	France	0.9381**	Mali	0.9862	South Africa	0.8964
Azerbaijan	0.8706	Gabon	0.9755	Mauritania	0.9781	South Korea	0.0000
Bangladesh	0.9867	Gambia	0.9960	Mexico	0.7460	Spain	0.9993**
Belarus	0.9996	Georgia	0.9479	Moldova	0.9743	Sri Lanka	0.9435
Belgium	0.9381**	Germany	0.8448**	Mongolia	0.9886	Sudan	0.9623
Benin	0.9916	Ghana	0.9923	Morocco	0.7953	Sweden	1.0000*
Bolivia	0.9755	Greece	0.9381**	Mozambique	0.9991	Switzerland	1.0000
Botswana	0.9757	Guatemala	0.6845	Namibia	0.9997	Syria	0.6082
Brazil	0.8917	Guinea	0.9933	Nepal	0.9967	Tajikistan	0.9964
Bulgaria	0.9863	Guinea Bis.	0.9406	Netherlands	0.9381**	Tanzania	0.9824
Burkina Faso	0.9962	Hondura	0.5782	New Zealand	0.9304	Thailand	0.7554
Burundi	0.9962	Hungary	0.9771	Nicaragua	0.9465	Togo	0.9761
C. African R.	0.9951	India	0.9732	Niger	0.9922	Tunisia	0.7912
Cambodia	0.9755	Indonesia	0.9147	Nigeria	0.9743	Turkey	0.9238
Cameroon	0.9414	Iran	0.7567	Norway	1.0000	UAE	0.0130
Canada	0.8747	Ireland	0.8448**	Oman	0.8043	Uganda	0.9984
Chad	0.9919	Israel	0.1939	Pakistan	0.9736	UK	0.9381**
Chile	0.7797	Italy	0.9993**	Panama	0.7065	Ukraine	0.9695
China	0.7882	Japan	0.9381	Papua N.G.	0.9659	Uruguay	0.7672
Colombia	0.8733	Jordan	0.7507	Paraguay	0.7753	USA	0.7516
Congo	0.9930	Kazakhstan	0.9818	Peru	0.9638	Uzbekistan	0.9977
Cote d'Ivoire	0.9681	Kenya	0.9490	Philippines	0.8936	Venezuela	0.4315
Croatia	0.9173	Kuwait	0.0000	Poland	0.9537	Vietnam	0.9626
Czech Rep.	0.9377	Kyrgyzstan	0.9784	Portugal	1.0000**	Yemen	0.7355
D.R. Congo	0.9079	Laos	0.9756	Romania	0.8412	Zambia	0.9878
Denmark	1.0000**	Latvia	0.9936	Russia	0.9583	Zimbabwe	0.8779

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8857	Min	0.0000	Std. Deviation	0.1899	5 Percentile	0.5887
Missing	0	Median	0.9603	Max	1.0000			95 Percentile	0.9999



## Indicator: Paper recycling

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Response

**Explanation:** Recycling rates are the ratios of the quantity collected for recycling to the apparent consumption. Reducing uncontrolled waste improves land sustainability.

**Sources:** United Nations Environment Programme  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1551](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1551))

Esty et al. (2005); OECD (2005a)

**Period:** 1990-2005

**Units:** percent of apparent consumption

### Most recent data

Albania	0.0000	Ecuador	-	Lebanon	-	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	59.3000	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	-	Senegal	0.0000
Argentina	10.0000	Estonia	45.0000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	50.0000
Australia	53.0000	Finland	70.0000	Malaysia	-	Slovenia	77.3000
Austria	70.0000	France	55.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000*	Gabon	0.0000	Mauritania	-	South Korea	66.0000
Bangladesh	-	Gambia	0.0000	Mexico	70.0000	Spain	59.0000
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	60.0000	Germany	70.0000	Mongolia	0.0000	Sudan	0.0000*
Benin	-	Ghana	0.0000	Morocco	0.0000	Sweden	67.0000
Bolivia	-	Greece	33.0000	Mozambique	0.0000	Switzerland	74.0000
Botswana	-	Guatemala	-	Namibia	-	Syria	-
Brazil	43.9000	Guinea	-	Nepal	-	Tajikistan	0.0000*
Bulgaria	-	Guinea Bis.	0.0000*	Netherlands	72.0000	Tanzania	0.0000*
Burkina Faso	-	Hondura	0.0000*	New Zealand	72.0000	Thailand	-
Burundi	0.0000	Hungary	50.0000	Nicaragua	-	Togo	0.0000
C. African R.	0.0000	India	20.0000	Niger	0.0000*	Tunisia	-
Cambodia	-	Indonesia	0.0000	Nigeria	0.0000*	Turkey	42.0000
Cameroon	-	Iran	0.0000*	Norway	71.0000	UAE	0.0000*
Canada	46.0000	Ireland	38.0000	Oman	0.0000*	Uganda	-
Chad	0.0000	Israel	-	Pakistan	-	UK	51.0000
Chile	-	Italy	50.0000	Panama	0.0000	Ukraine	0.0000*
China	30.0000	Japan	66.0000	Papua N.G.	0.0000*	Uruguay	10.0000
Colombia	35.0000	Jordan	0.0000	Paraguay	10.0000	USA	50.0000
Congo	-	Kazakhstan	0.0000*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	-	Kenya	-	Philippines	0.0000	Venezuela	-
Croatia	-	Kuwait	0.0000	Poland	34.0000	Vietnam	-
Czech Rep.	47.0000	Kyrgyzstan	0.0000	Portugal	46.0000	Yemen	-
D.R. Congo	-	Laos	0.0000*	Romania	51.1000	Zambia	0.0000*
Denmark	60.0000	Latvia	59.1000	Russia	-	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	92	Mean	22.2033	Min	0.0000	Std. Deviation	28.0726	5 Percentile	0.0000
Missing	36	Median	0.0000	Max	77.3000			95 Percentile	70.4500

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

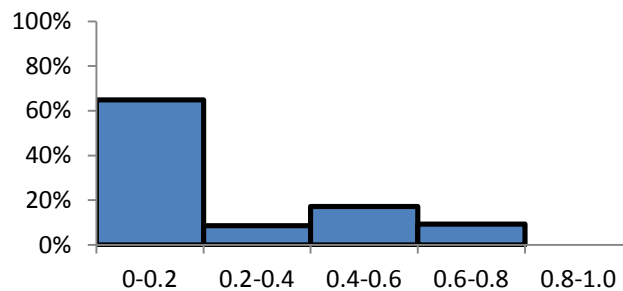
## Smoothed data

Albania	0.0000	Ecuador	0.0000**	Lebanon	0.4200**	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	0.5930	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	0.0000**	Senegal	0.0000
Argentina	0.1000	Estonia	0.4500	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.5000
Australia	0.5300	Finland	0.7000	Malaysia	0.0000**	Slovenia	0.7730
Austria	0.6738	France	0.5500	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000*	Gabon	0.0000	Mauritania	0.0000**	South Korea	0.6600
Bangladesh	0.2000**	Gambia	0.0000	Mexico	0.7000	Spain	0.5900
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	0.6000	Germany	0.7000	Mongolia	0.0000	Sudan	0.0000*
Benin	0.0000**	Ghana	0.0000	Morocco	0.0000	Sweden	0.6671
Bolivia	0.2130**	Greece	0.3122	Mozambique	0.0000	Switzerland	0.7334
Botswana	0.3187**	Guatemala	0.2695**	Namibia	0.0000**	Syria	0.2100**
Brazil	0.4390	Guinea	0.0000**	Nepal	0.0000**	Tajikistan	0.0000*
Bulgaria	0.5110**	Guinea Bis.	0.0000*	Netherlands	0.6967	Tanzania	0.0000*
Burkina Faso	0.0000**	Hondura	0.0000*	New Zealand	0.7169	Thailand	0.0000**
Burundi	0.0000	Hungary	0.4529	Nicaragua	0.2695**	Togo	0.0000
C. African R.	0.0000	India	0.2000	Niger	0.0000*	Tunisia	0.0000**
Cambodia	0.0000**	Indonesia	0.0000	Nigeria	0.0000*	Turkey	0.4200
Cameroon	0.0000**	Iran	0.0000*	Norway	0.7100	UAE	0.0000*
Canada	0.4402	Ireland	0.3648	Oman	0.0000*	Uganda	0.0000**
Chad	0.0000	Israel	0.0000**	Pakistan	0.0000**	UK	0.5100
Chile	0.0000**	Italy	0.5000	Panama	0.0000	Ukraine	0.0000*
China	0.3000	Japan	0.6600	Papua N.G.	0.0000*	Uruguay	0.1000
Colombia	0.3500	Jordan	0.0000	Paraguay	0.1000	USA	0.5000
Congo	0.0000**	Kazakhstan	0.0000*	Peru	0.2130**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000**	Kenya	0.0000**	Philippines	0.0000	Venezuela	0.0000**
Croatia	0.4505**	Kuwait	0.0000	Poland	0.3187	Vietnam	0.0000**
Czech Rep.	0.4700	Kyrgyzstan	0.0000	Portugal	0.4600	Yemen	0.0000**
D.R. Congo	0.0000**	Laos	0.0000*	Romania	0.5110	Zambia	0.0000*
Denmark	0.5997	Latvia	0.5910	Russia	0.0000**	Zimbabwe	0.0000**

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1822	Min	0.0000	Std. Deviation	0.2562	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	0.7730			95 Percentile	0.6988



**Indicator: Personal computers****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Response**Explanation:** Estimated numbers of self-contained computers used by a single person. Access to personal computers promotes knowledge development and educational sustainability.**Sources:** World Bank (2007); Financial Standards Foundation (<http://www.estandardsforum.org/jhtml/ca/lpa/>)**Period:** 1990-2005**Units:** number of computers per thousand people**Most recent data**

Albania	11.6883	Ecuador	31.1132	Lebanon	80.5271	Rwanda	0.0000*
Algeria	7.7334	Egypt	21.8506	Lithuania	109.7473	Saudi Arabia	130.2255
Angola	1.9373	El Salvador	25.2420	Macedonia, FYR	69.0000*	Senegal	21.2376
Argentina	81.9672	Estonia	440.4145	Madagascar	4.8960	Sierra Leone	0.0000*
Armenia	15.7853	Ethiopia	2.1625	Malawi	1.5065	Slovakia	180.3644
Australia	565.1002	Finland	441.7131	Malaysia	166.8627	Slovenia	300.6012
Austria	369.2855	France	347.1000	Mali	1.4113	South Africa	72.6009
Azerbaijan	18.0000*	Gabon	22.4383	Mauritania	10.8113	South Korea	557.9723
Bangladesh	7.7710	Gambia	13.8484	Mexico	81.9910	Spain	195.9541
Belarus	77.0000*	Georgia	31.6173	Moldova	17.5000	Sri Lanka	13.1947
Belgium	318.1499	Germany	484.6624	Mongolia	77.3206	Sudan	6.1465
Benin	3.6762	Ghana	3.7833	Morocco	19.9177	Sweden	621.2680
Bolivia	22.7790	Greece	81.6845	Mozambique	4.4971	Switzerland	708.6676
Botswana	40.6977	Guatemala	14.4203	Namibia	99.3243	Syria	19.3662
Brazil	74.7646	Guinea	5.5477	Nepal	3.6633	Tajikistan	0.0000*
Bulgaria	51.9164	Guinea Bis.	0.0000*	Netherlands	466.6255	Tanzania	5.6636
Burkina Faso	2.1211	Hondura	13.5863	New Zealand	413.8001	Thailand	39.7660
Burundi	1.8265	Hungary	108.3530	Nicaragua	27.9330	Togo	32.0000
C. African R.	2.0217	India	7.1988	Niger	0.5959	Tunisia	40.4825
Cambodia	2.2633	Indonesia	11.8759	Nigeria	7.1037	Turkey	44.5951
Cameroon	5.6854	Iran	90.4579	Norway	528.3099	UAE	129.0138
Canada	487.0440	Ireland	420.7581	Oman	35.0424	Uganda	4.0041
Chad	1.6515	Israel	242.6307	Pakistan	4.2126	UK	405.7000
Chile	119.3205	Italy	230.6780	Panama	38.2557	Ukraine	18.9680
China	27.6366	Japan	382.1556	Papua N.G.	58.7482	Uruguay	110.0863
Colombia	49.2723	Jordan	44.7244	Paraguay	34.5901	USA	658.8787
Congo	4.2857	Kazakhstan	10.0000*	Peru	42.9661	Uzbekistan	31.0000*
Cote d'Ivoire	9.3393	Kenya	6.3890	Philippines	27.6812	Venezuela	60.9406
Croatia	173.7540	Kuwait	162.8333	Poland	142.0094	Vietnam	9.8463
Czech Rep.	177.4448	Kyrgyzstan	12.6595	Portugal	134.3557	Yemen	7.4378
D.R. Congo	0.0000*	Laos	3.5219	Romania	96.6248	Zambia	8.4859
Denmark	576.8241	Latvia	187.9959	Russia	88.6851	Zimbabwe	52.6987

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	114.0300	Min	0.0000	Std. Deviation	170.1150	5 Percentile	1.4446
Missing	0	Median	33.2951	Max	708.6676			95 Percentile	513.8669



## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=406.1183$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

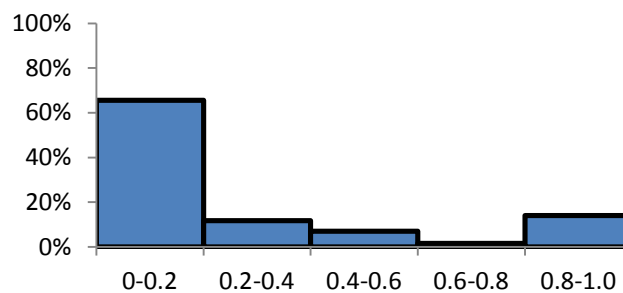
## Smoothed data

Albania	0.0288	Ecuador	0.0766	Lebanon	0.1983	Rwanda	0.0000*
Algeria	0.0190	Egypt	0.0538	Lithuania	0.2702	Saudi Arabia	0.3207
Angola	0.0048	El Salvador	0.0622	Macedonia, FYR	0.1699*	Senegal	0.0523
Argentina	0.2018	Estonia	1.0000	Madagascar	0.0121	Sierra Leone	0.0000*
Armenia	0.0389	Ethiopia	0.0053	Malawi	0.0037	Slovakia	0.4441
Australia	1.0000	Finland	1.0000	Malaysia	0.4109	Slovenia	0.7402
Austria	0.9093	France	0.8547	Mali	0.0035	South Africa	0.1788
Azerbaijan	0.0443*	Gabon	0.0553	Mauritania	0.0266	South Korea	1.0000
Bangladesh	0.0191	Gambia	0.0341	Mexico	0.2019	Spain	0.4825
Belarus	0.1896*	Georgia	0.0779	Moldova	0.0431	Sri Lanka	0.0325
Belgium	0.7834	Germany	1.0000	Mongolia	0.1904	Sudan	0.0151
Benin	0.0091	Ghana	0.0093	Morocco	0.0491	Sweden	1.0000
Bolivia	0.0561	Greece	0.2011	Mozambique	0.0111	Switzerland	1.0000
Botswana	0.1002	Guatemala	0.0355	Namibia	0.2446	Syria	0.0477
Brazil	0.1841	Guinea	0.0137	Nepal	0.0090	Tajikistan	0.0000*
Bulgaria	0.1278	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0139
Burkina Faso	0.0052	Hondura	0.0335	New Zealand	1.0000	Thailand	0.0979
Burundi	0.0045	Hungary	0.2668	Nicaragua	0.0688	Togo	0.0788
C. African R.	0.0050	India	0.0177	Niger	0.0015	Tunisia	0.0997
Cambodia	0.0056	Indonesia	0.0292	Nigeria	0.0175	Turkey	0.1098
Cameroon	0.0140	Iran	0.2227	Norway	1.0000	UAE	0.3177
Canada	1.0000	Ireland	1.0000	Oman	0.0863	Uganda	0.0099
Chad	0.0041	Israel	0.5974	Pakistan	0.0104	UK	0.9990
Chile	0.2938	Italy	0.5680	Panama	0.0942	Ukraine	0.0467
China	0.0681	Japan	0.9410	Papua N.G.	0.1447	Uruguay	0.2711
Colombia	0.1213	Jordan	0.1101	Paraguay	0.0852	USA	1.0000
Congo	0.0106	Kazakhstan	0.0246*	Peru	0.1058	Uzbekistan	0.0763*
Cote d'Ivoire	0.0230	Kenya	0.0157	Philippines	0.0682	Venezuela	0.1501
Croatia	0.4278	Kuwait	0.4010	Poland	0.3497	Vietnam	0.0242
Czech Rep.	0.4369	Kyrgyzstan	0.0312	Portugal	0.3308	Yemen	0.0183
D.R. Congo	0.0000*	Laos	0.0087	Romania	0.2379	Zambia	0.0209
Denmark	1.0000	Latvia	0.4629	Russia	0.2184	Zimbabwe	0.1298

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2483	Min	0.0000	Std. Deviation	0.3353	5 Percentile	0.0036
Missing	0	Median	0.0820	Max	1.0000			95 Percentile	1.0000





**Indicator: Pesticide consumption****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Water**Tertiary indicator:** Pressure, Pressure**Explanation:** Pesticide use intensity refers to the amount of pesticide used per hectare of arable and permanent cropland. Excessive use of pesticides in agricultural activities has negative impacts on soil, water, humans and wildlife.**Sources:** Esty et al. (2005)**Period:** 1990-2005**Units:** kg of pesticide consumption per hectare of arable land**Most recent data**

Albania	0.1800	Ecuador	2.5000	Lebanon	5.6000	Rwanda	0.1000
Algeria	0.3100	Egypt	1.4000	Lithuania	0.2000	Saudi Arabia	0.7000
Angola	0.1000	El Salvador	4.9000	Macedonia, FYR	0.8000	Senegal	0.1000
Argentina	1.9000	Estonia	0.5000	Madagascar	0.1800	Sierra Leone	0.1000
Armenia	0.1000	Ethiopia	0.1000	Malawi	0.3000	Slovakia	2.4900
Australia	2.5000	Finland	0.6000	Malaysia	1.5000	Slovenia	7.4000
Austria	2.4200	France	4.5000	Mali	0.1000	South Africa	1.7000
Azerbaijan	0.3400	Gabon	0.2700	Mauritania	0.1000	South Korea	12.8000
Bangladesh	0.4000	Gambia	0.1000	Mexico	1.9000	Spain	2.0000
Belarus	0.7400	Georgia	0.8700	Moldova	1.1000	Sri Lanka	0.9000
Belgium	5.9000	Germany	2.3000	Mongolia	0.3100	Sudan	0.1400
Benin	0.1200	Ghana	0.1000	Morocco	1.0000	Sweden	0.7000
Bolivia	1.3000	Greece	2.8000	Mozambique	0.2600	Switzerland	3.6000
Botswana	0.4000	Guatemala	0.8000	Namibia	0.1000	Syria	0.6000
Brazil	1.2000	Guinea	0.1000	Nepal	0.4400	Tajikistan	0.8000
Bulgaria	0.9000	Guinea Bis.	0.1000	Netherlands	8.0000	Tanzania	0.1000
Burkina Faso	0.2000	Hondura	2.5000	New Zealand	1.0000	Thailand	1.1000
Burundi	0.1000	Hungary	1.1000	Nicaragua	2.4000	Togo	0.1000
C. African R.	0.1000	India	0.3000	Niger	0.1000	Tunisia	0.2000
Cambodia	0.1500	Indonesia	0.1000	Nigeria	0.1000	Turkey	1.0000
Cameroon	0.1000	Iran	0.3000	Norway	0.6000	UAE	0.1300
Canada	0.6000	Ireland	2.0000	Oman	1.2000	Uganda	0.1700
Chad	0.1000	Israel	5.7000	Pakistan	0.5000	UK	5.8000
Chile	6.7000	Italy	1.1600	Panama	4.7000	Ukraine	1.9000
China	0.7700	Japan	4.3100	Papua N.G.	0.1000	Uruguay	3.3000
Colombia	16.7000	Jordan	1.4000	Paraguay	3.4000	USA	2.3000
Congo	0.1000	Kazakhstan	0.3000	Peru	1.2000	Uzbekistan	0.7500
Cote d'Ivoire	0.2700	Kenya	0.3000	Philippines	1.9500	Venezuela	1.2000
Croatia	2.2000	Kuwait	4.6000	Poland	0.7800	Vietnam	2.3000
Czech Rep.	1.4000	Kyrgyzstan	1.8000	Portugal	5.5000	Yemen	0.8000
D.R. Congo	0.1600	Laos	0.1000	Romania	0.8000	Zambia	0.3000
Denmark	1.4000	Latvia	0.2000	Russia	0.2000	Zimbabwe	0.9000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.5693	Min	0.1000	Std. Deviation	2.3949	5 Percentile	0.1000
Missing	0	Median	0.7750	Max	16.7000			95 Percentile	5.7650

## Normalization

Type SB (smaller is better)

Parameters U=3.2200

T=8.0000

Comments T=average of EU-14

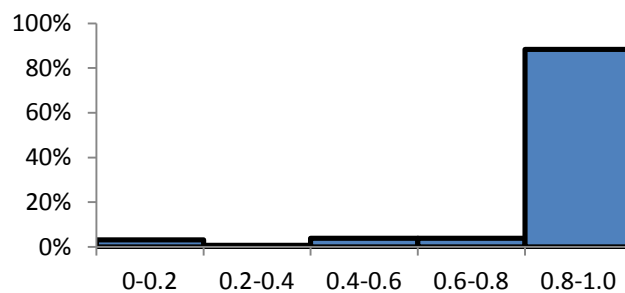
U=max (excluding 1.5% outliers)

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.5021	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	0.6485	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	0.1255
Austria	1.0000	France	0.7322	Mali	1.0000	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	0.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	0.4393	Germany	1.0000	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	0.9205
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	0.0000	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	1.0000	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	0.4812	Pakistan	1.0000	UK	0.4603
Chile	0.2720	Italy	1.0000	Panama	0.6904	Ukraine	1.0000
China	1.0000	Japan	0.7720	Papua N.G.	1.0000	Uruguay	0.9833
Colombia	0.0000	Jordan	1.0000	Paraguay	0.9623	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	0.7113	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.5230	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9314	Min	0.0000	Std. Deviation	0.2077	5 Percentile	0.4676
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Phosphorus concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** It is a measure of eutrophication, which affects the health of aquatic resources. High levels of phosphorous increase the chances of eutrophication.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2005**Units:** mg phosphorus per liter of water**Most recent data**

Albania	0.1400	Ecuador	0.1200	Lebanon	0.2500	Rwanda	0.1600
Algeria	0.3100	Egypt	0.1900	Lithuania	0.0800	Saudi Arabia	0.1500
Angola	0.1500	El Salvador	0.1500	Macedonia, FYR	0.0200	Senegal	0.2200
Argentina	0.0900	Estonia	0.0000	Madagascar	0.1700	Sierra Leone	0.1700
Armenia	0.0600	Ethiopia	0.2200	Malawi	0.1900	Slovakia	0.1900
Australia	0.0800	Finland	0.0100	Malaysia	0.0900	Slovenia	0.0900
Austria	0.0800	France	0.1700	Mali	0.1500	South Africa	0.2100
Azerbaijan	0.1900	Gabon	0.0700	Mauritania	0.1700	South Korea	0.1300
Bangladesh	0.2900	Gambia	0.2300	Mexico	0.1000	Spain	0.2300
Belarus	0.1200	Georgia	0.1300	Moldova	0.1400	Sri Lanka	0.2000
Belgium	0.3200	Germany	0.1600	Mongolia	0.0400	Sudan	0.1800
Benin	0.1700	Ghana	0.2400	Morocco	0.4600	Sweden	0.1100
Bolivia	0.0900	Greece	0.3900	Mozambique	0.1400	Switzerland	0.0700
Botswana	0.1300	Guatemala	0.2000	Namibia	0.1700	Syria	0.2800
Brazil	0.1700	Guinea	0.2200	Nepal	0.1900	Tajikistan	0.1100
Bulgaria	0.2800	Guinea Bis.	0.1500	Netherlands	0.2700	Tanzania	0.2200
Burkina Faso	0.1500	Hondura	0.2100	New Zealand	0.0500	Thailand	0.2200
Burundi	0.2200	Hungary	0.1200	Nicaragua	0.0600	Togo	0.2600
C. African R.	0.1100	India	0.2000	Niger	0.1200	Tunisia	0.1600
Cambodia	0.0400	Indonesia	0.5700	Nigeria	0.2900	Turkey	0.2900
Cameroon	0.0500	Iran	0.2800	Norway	0.0100	UAE	0.1200
Canada	0.0100	Ireland	0.0800	Oman	0.0800	Uganda	0.2200
Chad	0.1400	Israel	0.1700	Pakistan	0.6700	UK	0.0900
Chile	0.1900	Italy	0.1400	Panama	0.0700	Ukraine	0.1200
China	0.2800	Japan	0.0600	Papua N.G.	0.1600	Uruguay	0.0900
Colombia	0.1000	Jordan	0.1900	Paraguay	0.2100	USA	0.1300
Congo	0.1000	Kazakhstan	0.1100	Peru	0.1400	Uzbekistan	0.2000
Cote d'Ivoire	0.1900	Kenya	0.2100	Philippines	0.2600	Venezuela	0.2100
Croatia	0.1200	Kuwait	0.2300	Poland	0.2400	Vietnam	0.1200
Czech Rep.	0.3200	Kyrgyzstan	0.1300	Portugal	0.2800	Yemen	0.1900
D.R. Congo	0.1700	Laos	0.1200	Romania	0.1600	Zambia	0.1700
Denmark	0.1400	Latvia	0.0400	Russia	0.0100	Zimbabwe	0.0100

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.1662	Min	0.0000	Std. Deviation	0.0999	5 Percentile	0.0270
Missing	0	Median	0.1600	Max	0.6700			95 Percentile	0.3030

## Normalization

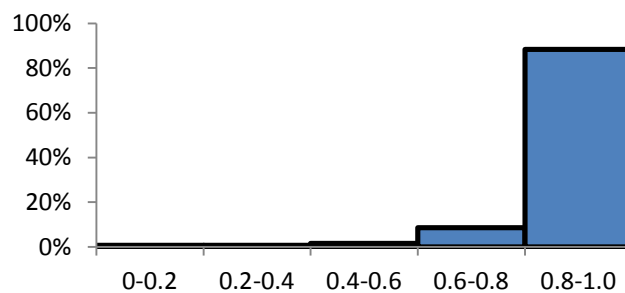
Type *SB (smaller is better)* Parameters *U=0.1764* *T=0.6700*  
 Comments *T=average of EU-14* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.8509	Rwanda	1.0000
Algeria	0.7294	Egypt	0.9725	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	0.9117
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.9117	Malawi	0.9725	Slovakia	0.9725
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	1.0000	South Africa	0.9320
Azerbaijan	0.9725	Gabon	1.0000	Mauritania	1.0000	South Korea	1.0000
Bangladesh	0.7699	Gambia	0.8915	Mexico	1.0000	Spain	0.8915
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.9522
Belgium	0.7091	Germany	1.0000	Mongolia	1.0000	Sudan	0.9928
Benin	1.0000	Ghana	0.8712	Morocco	0.4255	Sweden	1.0000
Bolivia	1.0000	Greece	0.5673	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.9522	Namibia	1.0000	Syria	0.7902
Brazil	1.0000	Guinea	0.9117	Nepal	0.9725	Tajikistan	1.0000
Bulgaria	0.7902	Guinea Bis.	1.0000	Netherlands	0.8104	Tanzania	0.9117
Burkina Faso	1.0000	Hondura	0.9320	New Zealand	1.0000	Thailand	0.9117
Burundi	0.9117	Hungary	1.0000	Nicaragua	1.0000	Togo	0.8307
C. African R.	1.0000	India	0.9522	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	0.2026	Nigeria	0.7699	Turkey	0.7699
Cameroon	1.0000	Iran	0.7902	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.9117
Chad	1.0000	Israel	1.0000	Pakistan	0.0000	UK	1.0000
Chile	0.9725	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.7902	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.9725	Paraguay	0.9320	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9522
Cote d'Ivoire	0.9725	Kenya	0.9320	Philippines	0.8307	Venezuela	0.9320
Croatia	1.0000	Kuwait	0.8915	Poland	0.8712	Vietnam	1.0000
Czech Rep.	0.7091	Kyrgyzstan	1.0000	Portugal	0.7902	Yemen	0.9725
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9370	Min	0.0000	Std. Deviation	0.1416	5 Percentile	0.7436
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Political rights****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State**Explanation:** The Freedom House Annual Survey employs the Political Rights checklist to help determine the degree to which people can participate in the political process of their country. Each country is then rated on a seven-category scale, 1 representing the most free and 7 the least free.**Sources:** World Audit (<http://www.worldaudit.org/polrights.htm>)**Period:** 1990-2005**Units:** seven-category scale (1 representing the most free and 7 the least free country)**Most recent data**

Albania	3.0000	Ecuador	3.0000	Lebanon	5.0000	Rwanda	6.0000
Algeria	6.0000	Egypt	6.0000	Lithuania	1.0000	Saudi Arabia	7.0000
Angola	6.0000	El Salvador	2.0000	Macedonia, FYR	3.0000	Senegal	2.0000
Argentina	2.0000	Estonia	1.0000	Madagascar	3.0000	Sierra Leone	4.0000
Armenia	5.0000	Ethiopia	5.0000	Malawi	4.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	4.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	2.0000	South Africa	1.0000
Azerbaijan	6.0000	Gabon	6.0000	Mauritania	6.0000	South Korea	1.0000
Bangladesh	4.0000	Gambia	5.0000	Mexico	2.0000	Spain	1.0000
Belarus	7.0000	Georgia	3.0000	Moldova	3.0000	Sri Lanka	3.0000
Belgium	1.0000	Germany	1.0000	Mongolia	2.0000	Sudan	7.0000
Benin	2.0000	Ghana	1.0000	Morocco	5.0000	Sweden	1.0000
Bolivia	3.0000	Greece	1.0000	Mozambique	3.0000	Switzerland	1.0000
Botswana	2.0000	Guatemala	4.0000	Namibia	2.0000	Syria	7.0000
Brazil	2.0000	Guinea	6.0000	Nepal	6.0000	Tajikistan	6.0000
Bulgaria	1.0000	Guinea Bis.	3.0000	Netherlands	1.0000	Tanzania	4.0000
Burkina Faso	5.0000	Hondura	3.0000	New Zealand	1.0000	Thailand	3.0000
Burundi	3.0000	Hungary	1.0000	Nicaragua	3.0000	Togo	6.0000
C. African R.	5.0000	India	2.0000	Niger	4.0000	Tunisia	6.0000
Cambodia	6.0000	Indonesia	2.0000	Nigeria	4.0000	Turkey	3.0000
Cameroon	6.0000	Iran	6.0000	Norway	1.0000	UAE	6.0000
Canada	1.0000	Ireland	1.0000	Oman	6.0000	Uganda	5.0000
Chad	6.0000	Israel	1.0000	Pakistan	6.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	3.0000
China	7.0000	Japan	1.0000	Papua N.G.	3.0000	Uruguay	1.0000
Colombia	3.0000	Jordan	5.0000	Paraguay	3.0000	USA	1.0000
Congo	5.0000	Kazakhstan	6.0000	Peru	2.0000	Uzbekistan	7.0000
Cote d'Ivoire	6.0000	Kenya	3.0000	Philippines	3.0000	Venezuela	2.0000
Croatia	2.0000	Kuwait	4.0000	Poland	1.0000	Vietnam	4.0000
Czech Rep.	1.0000	Kyrgyzstan	5.0000	Portugal	1.0000	Yemen	5.0000
D.R. Congo	6.0000	Laos	7.0000	Romania	2.0000	Zambia	3.0000
Denmark	1.0000	Latvia	1.0000	Russia	6.0000	Zimbabwe	7.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.3516	Min	1.0000	Std. Deviation	2.0643	5 Percentile	1.0000
Missing	0	Median	3.0000	Max	7.0000			95 Percentile	7.0000

## Normalization

Type SB (smaller is better)

Parameters

U=1.0000

T=3.0000

Comments T=minimum possible

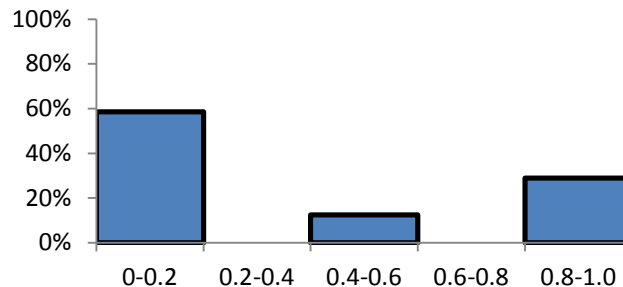
U (most developing countries range over [3,7], 3 being their best value)

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.5000	Macedonia, FYR	0.0000	Senegal	0.5000
Argentina	0.5000	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.5000	South Africa	1.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	1.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.5000	Spain	1.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5000	Sudan	0.0000
Benin	0.5000	Ghana	1.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	1.0000	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.5000	Guatemala	0.0000	Namibia	0.5000	Syria	0.0000
Brazil	0.5000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	1.0000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	1.0000	Thailand	0.0000
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.5000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.5000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	1.0000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	0.0000
China	0.0000	Japan	1.0000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.5000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.5000
Croatia	0.5000	Kuwait	0.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.5000	Zambia	0.0000
Denmark	1.0000	Latvia	1.0000	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3516	Min	0.0000	Std. Deviation	0.4453	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Population growth rate****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Land**Tertiary indicator:** Pressure**Explanation:** The rate of population change for given periods of years is measured by the rate of natural increase (birth rate - death rate). Small or zero population growth rate is perceived as influencing positively land sustainability.**Sources:** World Bank (2007); Population Reference Bureau, World Population Datasheets 1990-2005**Period:** 1990-2005**Units:** percent of natural increase**Most recent data**

Albania	0.9000	Ecuador	2.1000	Lebanon	1.6000	Rwanda	2.3000
Algeria	1.5000	Egypt	2.0000	Lithuania	-0.3000	Saudi Arabia	2.7000
Angola	2.6000	El Salvador	2.0000	Macedonia, FYR	0.4000	Senegal	2.6000
Argentina	1.1000	Estonia	-0.3000	Madagascar	2.7000	Sierra Leone	2.3000
Armenia	0.3000	Ethiopia	2.5000	Malawi	3.2000	Slovakia	0.0000
Australia	0.6000	Finland	0.2000	Malaysia	2.1000	Slovenia	-0.1000
Austria	0.1000	France	0.4000	Mali	3.2000	South Africa	0.7000
Azerbaijan	1.0000	Gabon	2.1000	Mauritania	2.7000	South Korea	0.5000
Bangladesh	1.9000	Gambia	2.8000	Mexico	1.9000	Spain	0.1000
Belarus	-0.6000	Georgia	0.0000	Moldova	-0.2000	Sri Lanka	1.3000
Belgium	0.1000	Germany	-0.1000	Mongolia	1.6000	Sudan	2.7000
Benin	2.9000	Ghana	2.3000	Morocco	1.6000	Sweden	0.1000
Bolivia	2.1000	Greece	0.0000	Mozambique	2.2000	Switzerland	0.2000
Botswana	-0.3000	Guatemala	2.8000	Namibia	1.1000	Syria	2.7000
Brazil	1.4000	Guinea	2.7000	Nepal	2.2000	Tajikistan	2.3000
Bulgaria	-0.5000	Guinea Bis.	3.0000	Netherlands	0.4000	Tanzania	2.4000
Burkina Faso	2.5000	Hondura	2.8000	New Zealand	0.7000	Thailand	0.7000
Burundi	2.8000	Hungary	-0.4000	Nicaragua	2.7000	Togo	2.7000
C. African R.	1.7000	India	1.7000	Niger	3.4000	Tunisia	1.1000
Cambodia	2.2000	Indonesia	1.6000	Nigeria	2.4000	Turkey	1.4000
Cameroon	2.3000	Iran	1.2000	Norway	0.3000	UAE	1.4000
Canada	0.3000	Ireland	0.8000	Oman	1.8000	Uganda	3.2000
Chad	2.7000	Israel	1.6000	Pakistan	2.4000	UK	0.2000
Chile	1.0000	Italy	0.0000	Panama	1.8000	Ukraine	-0.7000
China	0.6000	Japan	0.1000	Papua N.G.	2.1000	Uruguay	0.6000
Colombia	1.7000	Jordan	2.4000	Paraguay	1.7000	USA	0.6000
Congo	3.1000	Kazakhstan	0.6000	Peru	1.6000	Uzbekistan	1.6000
Cote d'Ivoire	2.2000	Kenya	2.2000	Philippines	2.3000	Venezuela	1.8000
Croatia	-0.3000	Kuwait	1.7000	Poland	0.0000	Vietnam	1.3000
Czech Rep.	-0.1000	Kyrgyzstan	1.3000	Portugal	0.0000	Yemen	3.3000
D.R. Congo	3.1000	Laos	2.3000	Romania	-0.2000	Zambia	1.9000
Denmark	0.2000	Latvia	-0.5000	Russia	-0.6000	Zimbabwe	1.1000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.3969	Min	-0.7000	Std. Deviation	1.1225	5 Percentile	-0.3000
Missing	0	Median	1.6000	Max	3.4000			95 Percentile	3.0650

## Normalization

Type *SB (smaller is better)*

Parameters *U=0.0000*

*T=1.2000*

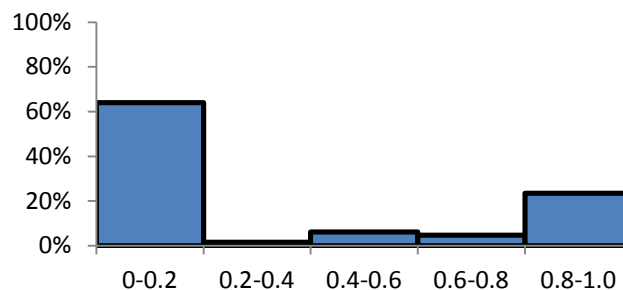
Comments *Zero or negative values lead to population stabilization. World average rate (PRB, 2009).*

## Smoothed data

Albania	0.1147	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.6667	Senegal	0.0000
Argentina	0.0612	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.7495	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	0.5000	Finland	0.8404	Malaysia	0.0000	Slovenia	1.0000
Austria	0.9167	France	0.6667	Mali	0.0000	South Africa	0.3698
Azerbaijan	0.1667	Gabon	0.0000	Mauritania	0.0000	South Korea	0.5833
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	0.9167
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.0000
Belgium	0.9097	Germany	1.0000	Mongolia	0.0069	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	0.9167
Bolivia	0.0000	Greece	0.9995	Mozambique	0.0000	Switzerland	0.8533
Botswana	1.0000	Guatemala	0.0000	Namibia	0.0833	Syria	0.0000
Brazil	0.0000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	1.0000	Guinea Bis.	0.0000	Netherlands	0.6676	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	0.4167	Thailand	0.4021
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0833
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	0.7361	UAE	0.0000
Canada	0.7500	Ireland	0.3333	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.0000	Pakistan	0.0000	UK	0.8333
Chile	0.1667	Italy	1.0000	Panama	0.0000	Ukraine	1.0000
China	0.5000	Japan	0.9167	Papua N.G.	0.0000	Uruguay	0.4989
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	0.5000
Congo	0.0000	Kazakhstan	0.5000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.9861	Kuwait	0.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	1.0000	Zambia	0.0000
Denmark	0.8825	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.0648

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3012	Min	0.0000	Std. Deviation	0.4135	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000





**Indicator: Poverty****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** National poverty rate is the percentage of population living below the national poverty line. The latter is usually estimated by finding the total cost of all the essential resources that an average human adult consumes in one year.**Sources:** World Bank (2007); OECD (2005b); CIA (2008)United Nations Statistics Division  
(<http://data.un.org/Data.aspx?q=refugees&d=UNHCR&f=indID%3aType-Ref>)**Period:** 1990-2005**Units:** percent of population**Most recent data**

Albania	25.4000	Ecuador	35.0000	Lebanon	28.0000	Rwanda	60.3000
Algeria	12.2000	Egypt	16.7000	Lithuania	4.0000	Saudi Arabia	40.0000
Angola	70.0000	El Salvador	48.3000	Macedonia, FYR	30.0000	Senegal	33.4000
Argentina	23.4000	Estonia	8.9000	Madagascar	71.3000	Sierra Leone	70.2000
Armenia	50.9000	Ethiopia	44.2000	Malawi	65.3000	Slovakia	21.0000
Australia	12.2000*	Finland	0.0000	Malaysia	15.5000	Slovenia	12.9000
Austria	5.9000	France	6.2000	Mali	63.8000	South Africa	50.0000*
Azerbaijan	49.0000	Gabon	65.0000	Mauritania	46.3000	South Korea	15.0000*
Bangladesh	49.8000	Gambia	57.6200	Mexico	17.6000	Spain	19.8000
Belarus	41.9000	Georgia	11.1000	Moldova	23.3000	Sri Lanka	25.0000
Belgium	15.2000	Germany	11.0000	Mongolia	35.6000	Sudan	40.0000
Benin	29.0230	Ghana	39.5000	Morocco	19.0000	Sweden	5.4000*
Bolivia	62.7000	Greece	12.5000*	Mozambique	69.4000	Switzerland	0.0000
Botswana	30.3000	Guatemala	56.2000	Namibia	35.0000	Syria	11.9000
Brazil	22.0000	Guinea	40.0000	Nepal	42.0000	Tajikistan	60.0000
Bulgaria	12.8000	Guinea Bis.	67.0000	Netherlands	10.5000	Tanzania	35.7000
Burkina Faso	45.3000	Hondura	53.0000	New Zealand	10.5000*	Thailand	13.1000
Burundi	36.4200	Hungary	17.3000	Nicaragua	47.9000	Togo	32.3000
C. African R.	100.0000	India	28.6000	Niger	63.0000	Tunisia	7.6000
Cambodia	35.9000	Indonesia	27.1000	Nigeria	34.1000	Turkey	27.0000
Cameroon	40.2000	Iran	18.0000	Norway	4.3000	UAE	19.5000
Canada	10.8000	Ireland	7.0000	Oman	32.0000	Uganda	44.0000
Chad	64.0000	Israel	21.6000	Pakistan	32.6000	UK	14.0000
Chile	17.0000	Italy	11.5000*	Panama	37.3000	Ukraine	31.7000
China	4.6000	Japan	11.5000*	Papua N.G.	37.5000	Uruguay	27.3700
Colombia	64.0000	Jordan	11.7000	Paraguay	21.8000	USA	12.0000
Congo	100.0000	Kazakhstan	34.6000	Peru	49.0000	Uzbekistan	27.5000
Cote d'Ivoire	42.0000	Kenya	52.0000	Philippines	36.8000	Venezuela	37.9000
Croatia	11.0000	Kuwait	0.0000*	Poland	23.8000	Vietnam	28.9000
Czech Rep.	5.8000*	Kyrgyzstan	47.6000	Portugal	13.0000*	Yemen	41.8000
D.R. Congo	50.0000*	Laos	38.6000	Romania	21.5000	Zambia	86.0000*
Denmark	5.3000*	Latvia	21.4000*	Russia	30.9000	Zimbabwe	34.9000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	32.2229	Min	0.0000	Std. Deviation	21.0253	5 Percentile	5.3350
Missing	0	Median	30.1500	Max	100.0000			95 Percentile	68.5600

## Normalization

Type *SB (smaller is better)* Parameters *U=0.0000* *T=30.1500*  
 Comments *T=minimum possible* *U=median*

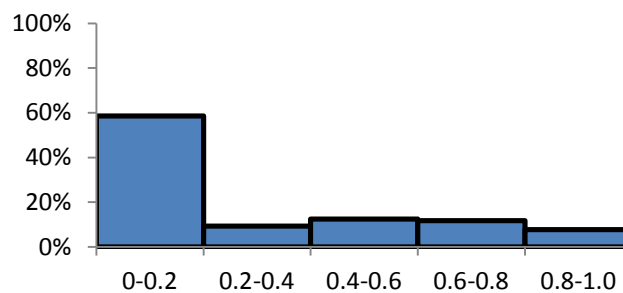
## Smoothed data

Albania	0.1575	Ecuador	0.0000	Lebanon	0.0713	Rwanda	0.0000
Algeria	0.5954	Egypt	0.4461	Lithuania	0.8673	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0050	Senegal	0.0000
Argentina	0.2239	Estonia	0.7048	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.3035
Australia	0.5954*	Finland	1.0000	Malaysia	0.4859	Slovenia	0.5721
Austria	0.8043	France	0.7944	Mali	0.0000	South Africa	0.0000*
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.5025*
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.4163	Spain	0.3433
Belarus	0.0000	Georgia	0.6318	Moldova	0.2272	Sri Lanka	0.1708
Belgium	0.4959	Germany	0.6352	Mongolia	0.0000	Sudan	0.0000
Benin	0.0374	Ghana	0.0000	Morocco	0.3698	Sweden	0.8209*
Bolivia	0.0000	Greece	0.5854*	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.6053
Brazil	0.2703	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.5755	Guinea Bis.	0.0000	Netherlands	0.6517	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	0.6517*	Thailand	0.5655
Burundi	0.0000	Hungary	0.4262	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0514	Niger	0.0000	Tunisia	0.7479
Cambodia	0.0000	Indonesia	0.1012	Nigeria	0.0000	Turkey	0.1045
Cameroon	0.0000	Iran	0.4030	Norway	0.8574	UAE	0.3532
Canada	0.6418	Ireland	0.7678	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.2836	Pakistan	0.0000	UK	0.5357
Chile	0.4362	Italy	0.6186*	Panama	0.0000	Ukraine	0.0000
China	0.8474	Japan	0.6186*	Papua N.G.	0.0000	Uruguay	0.0922
Colombia	0.0000	Jordan	0.6119	Paraguay	0.2769	USA	0.6020
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0879
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.6352	Kuwait	1.0000*	Poland	0.2106	Vietnam	0.0415
Czech Rep.	0.8076*	Kyrgyzstan	0.0000	Portugal	0.5688*	Yemen	0.0000
D.R. Congo	0.0000*	Laos	0.0000	Romania	0.2869	Zambia	0.0000*
Denmark	0.8242*	Latvia	0.2902*	Russia	0.0000	Zimbabwe	0.0000

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2446	Min	0.0000	Std. Deviation	0.3100	5 Percentile	0.0000
Missing	0	Median	0.0025	Max	1.0000			95 Percentile	0.8231



**Indicator: Primary education teaching staff****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Pressure**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.**Sources:** UNESCO  
(<http://stats.uis.unesco.org/unesco/ReportFolders/ReportFolders.aspx>)**Period:** 1990-2005**Units:** ratio of students to teaching staff**Most recent data**

Albania	21.4954	Ecuador	23.7349	Lebanon	17.0013	Rwanda	59.9057
Algeria	27.5330	Egypt	22.1873	Lithuania	15.5544	Saudi Arabia	11.8186
Angola	41.7532	El Salvador	43.0000	Macedonia, FYR	20.2281	Senegal	48.8924
Argentina	17.3408	Estonia	14.1050	Madagascar	51.6458	Sierra Leone	37.2644
Armenia	17.6377	Ethiopia	66.5824	Malawi	70.0147	Slovakia	18.3926
Australia	17.8757	Finland	16.3479	Malaysia	18.9197	Slovenia	12.6503
Austria	13.1816	France	18.6392	Mali	57.3447	South Africa	33.8428
Azerbaijan	15.2614	Gabon	36.0402	Mauritania	41.0578	South Korea	30.0979
Bangladesh	55.7421	Gambia	37.8692	Mexico	26.6603	Spain	13.8761
Belarus	15.9386	Georgia	14.4467	Moldova	19.4319	Sri Lanka	23.4266
Belgium	11.8788	Germany	14.0478	Mongolia	30.7691	Sudan	28.8004
Benin	62.1705	Ghana	32.3411	Morocco	28.1764	Sweden	11.1887
Bolivia	23.6680	Greece	11.9426	Mozambique	67.2454	Switzerland	12.9638
Botswana	26.6329	Guatemala	30.1257	Namibia	28.2472	Syria	24.0277
Brazil	24.0499	Guinea	44.9917	Nepal	35.6592	Tajikistan	22.3594
Bulgaria	17.1313	Guinea Bis.	44.0685	Netherlands	17.0000	Tanzania	58.2738
Burkina Faso	44.6589	Hondura	34.0593	New Zealand	17.7750	Thailand	20.6768
Burundi	49.9057	Hungary	9.5884	Nicaragua	35.2090	Togo	35.4517
C. African R.	90.0000	India	41.3299	Niger	41.7259	Tunisia	21.5378
Cambodia	56.2375	Indonesia	20.2942	Nigeria	41.5860	Turkey	20.0000
Cameroon	57.0638	Iran	23.6099	Norway	10.2572	UAE	15.2160
Canada	17.4160	Ireland	18.6725	Oman	21.0626	Uganda	52.7240
Chad	69.3243	Israel	14.6768	Pakistan	40.4489	UK	17.1049
Chile	34.0928	Italy	10.8275	Panama	24.2775	Ukraine	19.1118
China	21.0530	Japan	19.5565	Papua N.G.	35.4495	Uruguay	21.1696
Colombia	26.8199	Jordan	19.9324	Paraguay	26.9585	USA	14.8136
Congo	65.1710	Kazakhstan	18.5097	Peru	25.0856	Uzbekistan	21.0000
Cote d'Ivoire	42.3566	Kenya	33.5225	Philippines	34.9251	Venezuela	19.0000
Croatia	17.7256	Kuwait	13.2876	Poland	12.6528	Vietnam	24.6538
Czech Rep.	16.7941	Kyrgyzstan	24.4558	Portugal	11.1110	Yemen	29.8393
D.R. Congo	26.0152	Laos	30.6360	Romania	17.4946	Zambia	42.7677
Denmark	9.9330	Latvia	13.7008	Russia	16.6777	Zimbabwe	38.5559

**Descriptive Statistics - based on most recent data**

Available	128	Mean	28.8285	Min	9.5884	Std. Deviation	15.9577	5 Percentile	11.8397
Missing	0	Median	23.7014	Max	90.0000			95 Percentile	61.3778

## Normalization

Type SB (smaller is better)

Parameters U=13.9823

T=70.0147

Comments T=average of EU-14

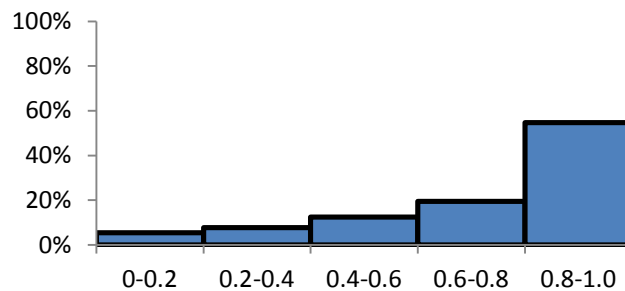
U=max (excluding 1%outliers)

## Smoothed data

Albania	0.8659	Ecuador	0.8242	Lebanon	0.9463	Rwanda	0.1918
Algeria	0.7582	Egypt	0.8536	Lithuania	0.9719	Saudi Arabia	1.0000
Angola	0.5044	El Salvador	0.4821	Macedonia, FYR	0.8885	Senegal	0.3638
Argentina	0.9401	Estonia	0.9978	Madagascar	0.3707	Sierra Leone	0.5845
Armenia	0.9207	Ethiopia	0.0613	Malawi	0.0000	Slovakia	0.9156
Australia	0.9305	Finland	0.9578	Malaysia	0.9104	Slovenia	1.0000
Austria	1.0000	France	0.9169	Mali	0.2261	South Africa	0.6197
Azerbaijan	0.9772	Gabon	0.6063	Mauritania	0.5168	South Korea	0.7124
Bangladesh	0.2556	Gambia	0.5737	Mexico	0.7737	Spain	1.0000
Belarus	0.9651	Georgia	0.9917	Moldova	0.9027	Sri Lanka	0.8314
Belgium	1.0000	Germany	0.9988	Mongolia	0.7004	Sudan	0.7355
Benin	0.2690	Ghana	0.6767	Morocco	0.7444	Sweden	1.0000
Bolivia	0.8271	Greece	1.0000	Mozambique	0.0494	Switzerland	1.0000
Botswana	0.7742	Guatemala	0.7119	Namibia	0.7454	Syria	0.8207
Brazil	0.8203	Guinea	0.4321	Nepal	0.5755	Tajikistan	0.8578
Bulgaria	0.9415	Guinea Bis.	0.4631	Netherlands	0.9461	Tanzania	0.2095
Burkina Faso	0.4525	Hondura	0.6417	New Zealand	0.9324	Thailand	0.8876
Burundi	0.3589	Hungary	1.0000	Nicaragua	0.6101	Togo	0.6168
C. African R.	0.0000	India	0.5119	Niger	0.5111	Tunisia	0.8652
Cambodia	0.2459	Indonesia	0.8874	Nigeria	0.5172	Turkey	0.8926
Cameroon	0.2110	Iran	0.8282	Norway	1.0000	UAE	0.9780
Canada	0.9387	Ireland	0.9163	Oman	0.8736	Uganda	0.2850
Chad	0.0224	Israel	0.9876	Pakistan	0.4956	UK	0.9443
Chile	0.6424	Italy	1.0000	Panama	0.8163	Ukraine	0.9085
China	0.8738	Japan	0.9005	Papua N.G.	0.6169	Uruguay	0.8724
Colombia	0.7709	Jordan	0.8938	Paraguay	0.7684	USA	0.9821
Congo	0.1695	Kazakhstan	0.9156	Peru	0.7648	Uzbekistan	0.8748
Cote d'Ivoire	0.4936	Kenya	0.6513	Philippines	0.6232	Venezuela	0.9104
Croatia	0.9332	Kuwait	1.0000	Poland	1.0000	Vietnam	0.8095
Czech Rep.	0.9429	Kyrgyzstan	0.8159	Portugal	1.0000	Yemen	0.7170
D.R. Congo	0.7853	Laos	0.7101	Romania	0.9373	Zambia	0.4708
Denmark	1.0000	Latvia	1.0000	Russia	0.9519	Zimbabwe	0.5581

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7336	Min	0.0000	Std. Deviation	0.2675	5 Percentile	0.1980
Missing	0	Median	0.8257	Max	1.0000			95 Percentile	1.0000



## Indicator: Primary net school enrollment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** Number of children of official school age, as defined by the education system, enrolled in primary school, expressed as percentage of the total number of children of that age.

**Sources:** World Bank (2007)

**Period:** 1990-2005

**Units:** percent of children

### Most recent data

Albania	97.1850	Ecuador	99.5231	Lebanon	90.5940	Rwanda	86.7237
Algeria	94.8632	Egypt	90.2981	Lithuania	94.2654	Saudi Arabia	54.4210
Angola	61.2629	El Salvador	90.4167	Macedonia, FYR	92.2821	Senegal	57.9000
Argentina	93.7940	Estonia	95.8368	Madagascar	78.5972	Sierra Leone	40.9759
Armenia	94.4119	Ethiopia	47.4155	Malawi	49.8201	Slovakia	86.9713
Australia	96.7582	Finland	99.9669	Malaysia	95.1721	Slovenia	93.0794
Austria	89.8952	France	99.6231	Mali	44.4970	South Africa	88.9916
Azerbaijan	79.8543	Gabon	78.3236	Mauritania	67.5369	South Korea	99.8446
Bangladesh	85.1358	Gambia	78.7506	Mexico	99.3705	Spain	99.7113
Belarus	94.2873	Georgia	88.7299	Moldova	79.0043	Sri Lanka	89.8876
Belgium	99.9887	Germany	84.2903	Mongolia	78.9730	Sudan	45.8124
Benin	71.2601	Ghana	63.1182	Morocco	89.6178	Sweden	99.7860
Bolivia	95.1068	Greece	96.7992	Mozambique	55.2534	Switzerland	98.8143
Botswana	80.9026	Guatemala	87.2617	Namibia	78.2861	Syria	97.9090
Brazil	96.5320	Guinea	65.4568	Nepal	70.4605	Tajikistan	85.3035
Bulgaria	90.3519	Guinea Bis.	45.1699	Netherlands	99.4326	Tanzania	68.8263
Burkina Faso	36.1983	Hondura	87.4470	New Zealand	99.7249	Thailand	86.3099
Burundi	57.3586	Hungary	90.7613	Nicaragua	85.4753	Togo	91.1621
C. African R.	53.4924	India	82.7776	Niger	38.1932	Tunisia	96.8540
Cambodia	93.2592	Indonesia	92.1438	Nigeria	59.9482	Turkey	87.9362
Cameroon	73.6031	Iran	86.5441	Norway	99.8950	UAE	83.0736
Canada	99.6061	Ireland	95.4759	Oman	71.9218	Uganda	52.7376
Chad	62.7540	Israel	99.8525	Pakistan	59.0608	UK	99.9597
Chile	86.4644	Italy	99.2104	Panama	99.6056	Ukraine	84.3429
China	94.6243	Japan	99.9744	Papua N.G.	68.5264	Uruguay	89.5396
Colombia	87.4139	Jordan	91.3084	Paraguay	91.5014	USA	92.7263
Congo	53.9755	Kazakhstan	91.4501	Peru	99.8946	Uzbekistan	78.2108
Cote d'Ivoire	60.5547	Kenya	66.4525	Philippines	92.9835	Venezuela	90.7607
Croatia	89.3113	Kuwait	83.4078	Poland	98.0359	Vietnam	93.9715
Czech Rep.	88.4583	Kyrgyzstan	89.2930	Portugal	99.8027	Yemen	71.7984
D.R. Congo	34.5586	Laos	84.9594	Romania	88.4462	Zambia	68.4001
Denmark	99.9893	Latvia	87.5839	Russia	98.6411	Zimbabwe	79.8851

### Descriptive Statistics - based on most recent data

Available	128	Mean	82.7366	Min	34.5586	Std. Deviation	16.9246	5 Percentile	46.3735
Missing	0	Median	88.5941	Max	99.9893			95 Percentile	99.8798

## Normalization

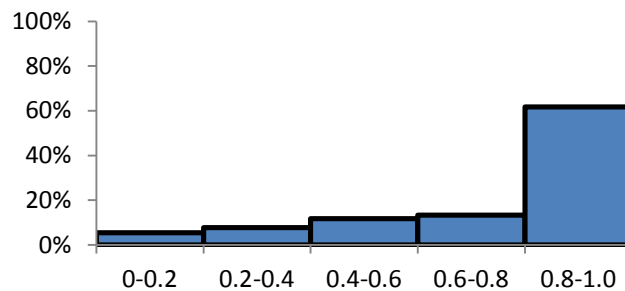
Type *LB (larger is better)* Parameters  $u=34.5586$   $\tau=97.4237$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.9979	Ecuador	0.9988	Lebanon	0.8914	Rwanda	0.8298
Algeria	0.9593	Egypt	0.8826	Lithuania	0.9747	Saudi Arabia	0.3666
Angola	0.4248	El Salvador	0.8885	Macedonia, FYR	0.9182	Senegal	0.3832
Argentina	0.9423	Estonia	0.9937	Madagascar	0.7005	Sierra Leone	0.1021
Armenia	0.8395	Ethiopia	0.2045	Malawi	0.2428	Slovakia	0.8337
Australia	0.9894	Finland	1.0000	Malaysia	0.9642	Slovenia	0.9317
Austria	0.8846	France	1.0000	Mali	0.1581	South Africa	0.8671
Azerbaijan	0.7212	Gabon	0.6962	Mauritania	0.5246	South Korea	0.9894
Bangladesh	0.8341	Gambia	0.7030	Mexico	1.0000	Spain	1.0000
Belarus	0.9372	Georgia	0.8617	Moldova	0.7021	Sri Lanka	0.8801
Belgium	1.0000	Germany	0.7911	Mongolia	0.7065	Sudan	0.1790
Benin	0.5838	Ghana	0.4197	Morocco	0.8758	Sweden	1.0000
Bolivia	0.9649	Greece	0.9897	Mozambique	0.3292	Switzerland	1.0000
Botswana	0.7372	Guatemala	0.8384	Namibia	0.6937	Syria	1.0000
Brazil	0.9858	Guinea	0.4915	Nepal	0.5674	Tajikistan	0.8072
Bulgaria	0.9186	Guinea Bis.	0.1688	Netherlands	1.0000	Tanzania	0.5451
Burkina Faso	0.0254	Hondura	0.8413	New Zealand	1.0000	Thailand	0.8232
Burundi	0.2844	Hungary	0.8940	Nicaragua	0.8099	Togo	0.9004
C. African R.	0.3012	India	0.7670	Niger	0.0578	Tunisia	0.9909
Cambodia	0.9005	Indonesia	0.9141	Nigeria	0.4039	Turkey	0.8491
Cameroon	0.6211	Iran	0.7642	Norway	1.0000	UAE	0.7717
Canada	0.9980	Ireland	0.9690	Oman	0.5943	Uganda	0.2892
Chad	0.4485	Israel	1.0000	Pakistan	0.3898	UK	1.0000
Chile	0.8495	Italy	1.0000	Panama	0.9999	Ukraine	0.7919
China	0.9555	Japan	1.0000	Papua N.G.	0.5403	Uruguay	0.8746
Colombia	0.8403	Jordan	0.8933	Paraguay	0.9099	USA	0.9392
Congo	0.3089	Kazakhstan	0.9050	Peru	1.0000	Uzbekistan	0.6944
Cote d'Ivoire	0.4135	Kenya	0.5234	Philippines	0.9294	Venezuela	0.8940
Croatia	0.8710	Kuwait	0.7830	Poland	1.0000	Vietnam	0.9451
Czech Rep.	0.8756	Kyrgyzstan	0.8717	Portugal	1.0000	Yemen	0.5924
D.R. Congo	0.0000	Laos	0.8017	Romania	0.9042	Zambia	0.5383
Denmark	1.0000	Latvia	0.8435	Russia	1.0000	Zimbabwe	0.7399

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7598	Min	0.0000	Std. Deviation	0.2637	5 Percentile	0.1879
Missing	0	Median	0.8644	Max	1.0000			95 Percentile	1.0000



**Indicator: Protected area****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** Response, Response**Explanation:** An area of land and/or sea especially dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means. Protected area ensures land sustainability**Sources:** United Nations - MDG Indicators (<http://mdgs.un.org/unsd/mdg/Data.aspx>)  
Esty et al. (2005); Environmental Sustainability Index 2001, 2002 ([www.yale.edu/esi](http://www.yale.edu/esi))**Period:** 1990-2005**Units:** ratio to surface area**Most recent data**

Albania	0.0290	Ecuador	0.5300	Lebanon	0.0100	Rwanda	0.0800
Algeria	0.0500	Egypt	0.1300	Lithuania	0.1100	Saudi Arabia	0.3700
Angola	0.1200	El Salvador	0.0100	Macedonia, FYR	0.0700	Senegal	0.1100
Argentina	0.0600	Estonia	0.1500	Madagascar	0.0300	Sierra Leone	0.0400
Armenia	0.1000	Ethiopia	0.1700	Malawi	0.1600	Slovakia	0.2500
Australia	0.1700	Finland	0.0800	Malaysia	0.2400	Slovenia	0.0700
Austria	0.2800	France	0.1200	Mali	0.0200	South Africa	0.0600
Azerbaijan	0.0600	Gabon	0.1600	Mauritania	0.0200	South Korea	0.0400
Bangladesh	0.0100	Gambia	0.0400	Mexico	0.0800	Spain	0.0800
Belarus	0.0600	Georgia	0.0400	Moldova	0.0100	Sri Lanka	0.1500
Belgium	0.0300	Germany	0.3000	Mongolia	0.1400	Sudan	0.0500
Benin	0.2300	Ghana	0.1500	Morocco	0.0100	Sweden	0.0900
Bolivia	0.1900	Greece	0.0300	Mozambique	0.0900	Switzerland	0.2900
Botswana	0.3000	Guatemala	0.2200	Namibia	0.1500	Syria	0.0070
Brazil	0.1800	Guinea	0.0600	Nepal	0.1700	Tajikistan	0.1800
Bulgaria	0.1000	Guinea Bis.	0.1820	Netherlands	0.1400	Tanzania	0.3800
Burkina Faso	0.1500	Hondura	0.1800	New Zealand	0.2000	Thailand	0.1900
Burundi	0.0600	Hungary	0.0900	Nicaragua	0.1800	Togo	0.1100
C. African R.	0.1700	India	0.0500	Niger	0.0700	Tunisia	0.0100
Cambodia	0.2200	Indonesia	0.0900	Nigeria	0.0600	Turkey	0.0400
Cameroon	0.0900	Iran	0.0700	Norway	0.0500	UAE	0.0030
Canada	0.0700	Ireland	0.0100	Oman	0.1100	Uganda	0.2600
Chad	0.0900	Israel	0.1600	Pakistan	0.0900	UK	0.1800
Chile	0.1400	Italy	0.1300	Panama	0.2300	Ukraine	0.0300
China	0.1500	Japan	0.0900	Papua N.G.	0.0970	Uruguay	0.0040
Colombia	0.3200	Jordan	0.1100	Paraguay	0.0600	USA	0.2300
Congo	0.1400	Kazakhstan	0.0300	Peru	0.1600	Uzbekistan	0.0500
Cote d'Ivoire	0.1600	Kenya	0.1300	Philippines	0.0400	Venezuela	0.6300
Croatia	0.0600	Kuwait	0.0300	Poland	0.2700	Vietnam	0.0300
Czech Rep.	0.1600	Kyrgyzstan	0.0400	Portugal	0.0500	Yemen	0.0030
D.R. Congo	0.0800	Laos	0.1600	Romania	0.0500	Zambia	0.4100
Denmark	0.0700	Latvia	0.1400	Russia	0.0900	Zimbabwe	0.1500

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.1236	Min	0.0030	Std. Deviation	0.1037	5 Percentile	0.0100
Missing	0	Median	0.0935	Max	0.6300			95 Percentile	0.3000



## Normalization

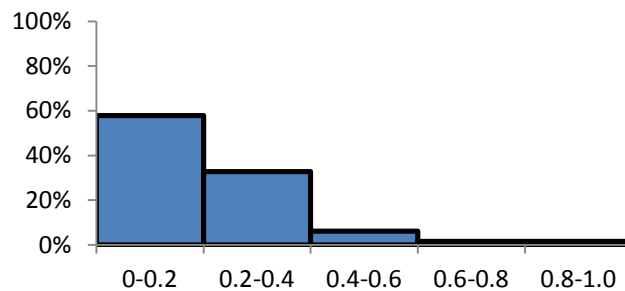
Type *LB (larger is better)* Parameters  $u=0.0030$   $\tau=0.6300$   
 Comments  $u=\min$   $r=\max$

## Smoothed data

Albania	0.0415	Ecuador	0.8405	Lebanon	0.0112	Rwanda	0.1228
Algeria	0.0750	Egypt	0.2026	Lithuania	0.1707	Saudi Arabia	0.5853
Angola	0.1866	El Salvador	0.0112	Macedonia, FYR	0.1069	Senegal	0.1707
Argentina	0.0909	Estonia	0.2344	Madagascar	0.0431	Sierra Leone	0.0590
Armenia	0.1547	Ethiopia	0.2663	Malawi	0.2504	Slovakia	0.3939
Australia	0.2663	Finland	0.1228	Malaysia	0.3780	Slovenia	0.1069
Austria	0.4418	France	0.1866	Mali	0.0271	South Africa	0.0909
Azerbaijan	0.0909	Gabon	0.2504	Mauritania	0.0271	South Korea	0.0590
Bangladesh	0.0112	Gambia	0.0590	Mexico	0.1228	Spain	0.1228
Belarus	0.0909	Georgia	0.0590	Moldova	0.0112	Sri Lanka	0.2344
Belgium	0.0431	Germany	0.4737	Mongolia	0.2185	Sudan	0.0750
Benin	0.3620	Ghana	0.2344	Morocco	0.0112	Sweden	0.1388
Bolivia	0.2982	Greece	0.0431	Mozambique	0.1388	Switzerland	0.4577
Botswana	0.4737	Guatemala	0.3461	Namibia	0.2344	Syria	0.0064
Brazil	0.2823	Guinea	0.0909	Nepal	0.2663	Tajikistan	0.2823
Bulgaria	0.1547	Guinea Bis.	0.2855	Netherlands	0.2185	Tanzania	0.6013
Burkina Faso	0.2344	Hondura	0.2823	New Zealand	0.3142	Thailand	0.2982
Burundi	0.0909	Hungary	0.1388	Nicaragua	0.2823	Togo	0.1707
C. African R.	0.2663	India	0.0750	Niger	0.1069	Tunisia	0.0112
Cambodia	0.3461	Indonesia	0.1388	Nigeria	0.0909	Turkey	0.0590
Cameroon	0.1388	Iran	0.1069	Norway	0.0750	UAE	0.0000
Canada	0.1069	Ireland	0.0112	Oman	0.1707	Uganda	0.4099
Chad	0.1388	Israel	0.2504	Pakistan	0.1388	UK	0.2823
Chile	0.2185	Italy	0.2026	Panama	0.3620	Ukraine	0.0431
China	0.2344	Japan	0.1388	Papua N.G.	0.1499	Uruguay	0.0016
Colombia	0.5056	Jordan	0.1707	Paraguay	0.0909	USA	0.3620
Congo	0.2185	Kazakhstan	0.0431	Peru	0.2504	Uzbekistan	0.0750
Cote d'Ivoire	0.2504	Kenya	0.2026	Philippines	0.0590	Venezuela	1.0000
Croatia	0.0909	Kuwait	0.0431	Poland	0.4258	Vietnam	0.0431
Czech Rep.	0.2504	Kyrgyzstan	0.0590	Portugal	0.0750	Yemen	0.0000
D.R. Congo	0.1228	Laos	0.2504	Romania	0.0750	Zambia	0.6491
Denmark	0.1069	Latvia	0.2185	Russia	0.1388	Zimbabwe	0.2344

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1923	Min	0.0000	Std. Deviation	0.1654	5 Percentile	0.0112
Missing	0	Median	0.1443	Max	1.0000			95 Percentile	0.4737





## Indicator: Public expenditure on education

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Response

**Explanation:** Percentage of GDP accounted for by public spending on public education plus subsidies to private education at the primary, secondary, and tertiary levels. It may exclude spending by religious schools, which play a significant role in many developing countries. Data for some countries and for some years refer to spending by the ministry of education of the central government only, and thus exclude education expenditures by other central government ministries and departments, local authorities, and others.

**Sources:** World Bank (2007); UNESCO ([http://stats.uis.unesco.org/unesco/TableView/document.aspx?ReportId=143&IF\\_Language=eng](http://stats.uis.unesco.org/unesco/TableView/document.aspx?ReportId=143&IF_Language=eng)); World Resources Institute ([http://earthtrends.wri.org/searchable\\_db/index.php?action=select\\_countries&theme=5%20&variable\\_ID=643](http://earthtrends.wri.org/searchable_db/index.php?action=select_countries&theme=5%20&variable_ID=643))

**Period:** 1990-2005

**Units:** percent of GDP

### Most recent data

Albania	2.9000	Ecuador	0.9893	Lebanon	2.6770	Rwanda	2.7501
Algeria	5.1000	Egypt	4.8000	Lithuania	5.9167	Saudi Arabia	8.3383
Angola	2.7980	El Salvador	2.8695	Macedonia, FYR	4.1202	Senegal	3.1695
Argentina	4.5976	Estonia	5.4793	Madagascar	2.8505	Sierra Leone	3.7299
Armenia	3.1723	Ethiopia	4.5932	Malawi	5.9780	Slovakia	4.0349
Australia	4.8939	Finland	6.2352	Malaysia	7.8913	Slovenia	5.7000
Austria	5.7857	France	5.6538	Mali	2.9864	South Africa	5.2880
Azerbaijan	3.1545	Gabon	3.9327	Mauritania	3.5701	South Korea	4.3112
Bangladesh	2.3806	Gambia	2.7903	Mexico	5.1568	Spain	4.4115
Belarus	6.0000	Georgia	2.2352	Moldova	4.9189	Sri Lanka	3.0514
Belgium	5.8615	Germany	4.5705	Mongolia	9.0113	Sudan	6.0000
Benin	3.2561	Ghana	4.1104	Morocco	6.4921	Sweden	7.3107
Bolivia	6.3138	Greece	3.9082	Mozambique	2.3559	Switzerland	5.5159
Botswana	2.1526	Guatemala	2.6000*	Namibia	7.2202	Syria	3.9000
Brazil	4.2998	Guinea	1.8493	Nepal	3.3883	Tajikistan	2.8009
Bulgaria	3.5298	Guinea Bis.	2.1438	Netherlands	4.9901	Tanzania	2.1717
Burkina Faso	4.2000	Hondura	4.0206	New Zealand	6.6646	Thailand	5.2306
Burundi	3.9488	Hungary	5.1476	Nicaragua	3.1174	Togo	2.6310
C. African R.	1.8614	India	4.1153	Niger	2.3335	Tunisia	6.8406
Cambodia	1.8328	Indonesia	1.3150	Nigeria	0.9000	Turkey	3.6514
Cameroon	3.8057	Iran	4.9348	Norway	7.0010	UAE	1.5929
Canada	5.2480	Ireland	4.3492	Oman	4.6365	Uganda	2.4753
Chad	2.0147	Israel	7.3395	Pakistan	1.7909	UK	4.7445
Chile	4.2249	Italy	4.9768	Panama	4.4588	Ukraine	5.4333
China	2.0835	Japan	3.5601	Papua N.G.	2.3077	Uruguay	3.1538
Colombia	5.2040	Jordan	4.9530	Paraguay	4.7558	USA	5.7485
Congo	3.2112	Kazakhstan	3.0297	Peru	2.9460	Uzbekistan	9.4000
Cote d'Ivoire	4.5563	Kenya	6.9846	Philippines	3.2038	Venezuela	3.7000*
Croatia	4.4947	Kuwait	4.7000	Poland	5.5597	Vietnam	1.8000
Czech Rep.	4.1583	Kyrgyzstan	3.0881	Portugal	5.9010	Yemen	9.5466
D.R. Congo	0.0000	Laos	2.7732	Romania	3.2850	Zambia	1.9892
Denmark	8.5006	Latvia	5.5337	Russia	3.1060	Zimbabwe	4.6956

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	128	Mean	4.2323	Min	0.0000	Std. Deviation	1.8197	5 Percentile	1.8115
Missing	0	Median	4.1177	Max	9.5466			95 Percentile	7.3294

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.9000$

$\tau=5.4553$

Comments  $u=\min$  (excluding 1% outliers)

$r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

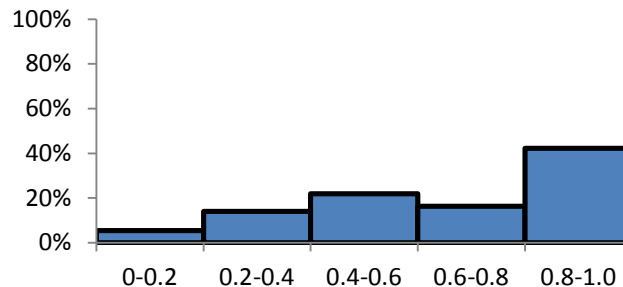
## Smoothed data

Albania	0.4390	Ecuador	0.0196	Lebanon	0.3878	Rwanda	0.4061
Algeria	0.9220	Egypt	0.8561	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.3743	El Salvador	0.4173	Macedonia, FYR	0.7069	Senegal	0.4982
Argentina	0.8117	Estonia	1.0000	Madagascar	0.4282	Sierra Leone	0.6212
Armenia	0.4988	Ethiopia	0.8134	Malawi	0.8348	Slovakia	0.6882
Australia	0.8680	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.4580	South Africa	0.9633
Azerbaijan	0.4989	Gabon	0.5747	Mauritania	0.5862	South Korea	0.6397
Bangladesh	0.3275	Gambia	0.4150	Mexico	0.9345	Spain	0.7709
Belarus	1.0000	Georgia	0.2851	Moldova	0.8822	Sri Lanka	0.4723
Belgium	1.0000	Germany	0.8058	Mongolia	1.0000	Sudan	1.0000
Benin	0.5172	Ghana	0.7048	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	0.6604	Mozambique	0.3196	Switzerland	0.9795
Botswana	0.2750	Guatemala	0.3732*	Namibia	1.0000	Syria	0.6586
Brazil	0.7463	Guinea	0.2134	Nepal	0.5479	Tajikistan	0.4118
Bulgaria	0.5773	Guinea Bis.	0.2730	Netherlands	0.8732	Tanzania	0.2792
Burkina Faso	0.7244	Hondura	0.6850	New Zealand	1.0000	Thailand	0.9506
Burundi	0.6457	Hungary	0.9324	Nicaragua	0.4868	Togo	0.6361
C. African R.	0.2111	India	0.7058	Niger	0.3254	Tunisia	1.0000
Cambodia	0.2044	Indonesia	0.0991	Nigeria	0.0000	Turkey	0.5832
Cameroon	0.6379	Iran	0.8591	Norway	1.0000	UAE	0.1521
Canada	0.9545	Ireland	0.7583	Oman	0.8203	Uganda	0.3458
Chad	0.2447	Israel	1.0000	Pakistan	0.1956	UK	0.8440
Chile	0.7299	Italy	0.8387	Panama	0.7914	Ukraine	0.9952
China	0.2598	Japan	0.5843	Papua N.G.	0.3090	Uruguay	0.4882
Colombia	0.9448	Jordan	0.8897	Paraguay	0.8464	USA	1.0000
Congo	0.5074	Kazakhstan	0.4675	Peru	0.4970	Uzbekistan	1.0000
Cote d'Ivoire	0.8025	Kenya	1.0000	Philippines	0.5058	Venezuela	0.6147*
Croatia	0.7891	Kuwait	0.9221	Poland	0.9143	Vietnam	0.1976
Czech Rep.	0.7141	Kyrgyzstan	0.4803	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.0000	Laos	0.4139	Romania	0.5236	Zambia	0.2391
Denmark	1.0000	Latvia	0.9988	Russia	0.4842	Zimbabwe	0.8332

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6656	Min	0.0000	Std. Deviation	0.2851	5 Percentile	0.2000
Missing	0	Median	0.7053	Max	1.0000			95 Percentile	1.0000



## Indicator: Public expenditure on R&D

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Response

**Explanation:** Expenditures for research and development are current and capital expenditures (both public and private) on creative, systematic activities that increase the stock of knowledge. Included are fundamental and applied research and experimental development work leading to new devices, products, or processes.

**Sources:** World Bank (2007)

**Period:** 1990-2005

**Units:** percent of GDP

### Most recent data

Albania	0.0000*	Ecuador	0.0684	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0000*	Egypt	0.1933	Lithuania	0.7600	Saudi Arabia	0.1521*
Angola	0.0000*	El Salvador	0.0804	Macedonia, FYR	0.2593	Senegal	0.0000*
Argentina	0.4101	Estonia	0.9100	Madagascar	0.1198	Sierra Leone	0.0000*
Armenia	0.2525	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.5300
Australia	1.7050	Finland	3.4600	Malaysia	0.6915	Slovenia	1.6100
Austria	2.2600	France	2.1600	Mali	0.0000*	South Africa	0.7614
Azerbaijan	0.3016	Gabon	0.0000*	Mauritania	0.0000*	South Korea	2.6435
Bangladesh	0.6209	Gambia	0.0000*	Mexico	0.3970	Spain	1.1053
Belarus	0.6209	Georgia	0.2881	Moldova	0.8068	Sri Lanka	0.1439
Belgium	1.9026	Germany	2.4900	Mongolia	0.2839	Sudan	0.3370
Benin	0.0000*	Ghana	0.0000*	Morocco	0.6154	Sweden	3.7400
Bolivia	0.2803	Greece	0.5800	Mozambique	0.5887	Switzerland	2.5670
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	0.9803	Guinea	0.0000*	Nepal	0.6647	Tajikistan	0.0000*
Bulgaria	0.5100	Guinea Bis.	0.0000*	Netherlands	1.8482	Tanzania	0.0000*
Burkina Faso	0.1703	Hondura	0.0496	New Zealand	1.1620	Thailand	0.2614
Burundi	0.0000*	Hungary	0.8800	Nicaragua	0.0455	Togo	0.0000*
C. African R.	0.0000*	India	0.8452	Niger	0.0000*	Tunisia	0.6290
Cambodia	0.0000*	Indonesia	0.0534	Nigeria	0.0000*	Turkey	0.6641
Cameroon	0.0000*	Iran	0.6700	Norway	1.7460	UAE	0.2307*
Canada	1.9300	Ireland	1.2100	Oman	0.0000*	Uganda	0.8109
Chad	0.0000*	Israel	4.4600	Pakistan	0.2223	UK	1.8940
Chile	0.6052	Italy	1.1400	Panama	0.3412	Ukraine	1.1566
China	1.4400	Japan	3.1454	Papua N.G.	0.0000*	Uruguay	0.2640
Colombia	0.1669	Jordan	0.0000*	Paraguay	0.0964	USA	2.6800
Congo	0.0000*	Kazakhstan	0.2201	Peru	0.1048	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.0000*	Philippines	0.1117	Venezuela	0.2843
Croatia	1.1442	Kuwait	0.1952	Poland	0.5800	Vietnam	0.1928
Czech Rep.	1.2800	Kyrgyzstan	0.1981	Portugal	0.7781	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	0.4030	Zambia	0.0100
Denmark	2.6321	Latvia	0.4200	Russia	1.1700	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	128	Mean	0.6203	Min	0.0000	Std. Deviation	0.8865	5 Percentile	0.0000
Missing	0	Median	0.2559	Max	4.4600			95 Percentile	2.6093

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=2.0214$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

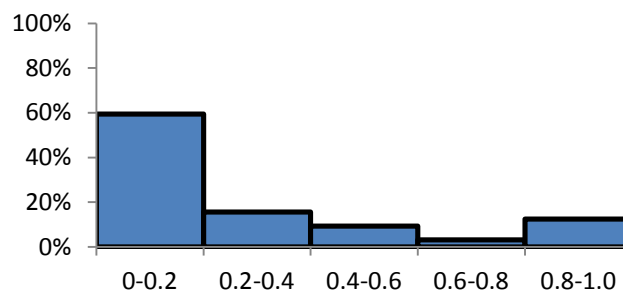
## Smoothed data

Albania	0.0000*	Ecuador	0.0329	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0000*	Egypt	0.0956	Lithuania	0.3760	Saudi Arabia	0.0752*
Angola	0.0000*	El Salvador	0.0398	Macedonia, FYR	0.1584	Senegal	0.0000*
Argentina	0.2080	Estonia	0.4466	Madagascar	0.0592	Sierra Leone	0.0000*
Armenia	0.1176	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.2635
Australia	0.7944	Finland	1.0000	Malaysia	0.3421	Slovenia	0.7858
Austria	1.0000	France	1.0000	Mali	0.0000*	South Africa	0.3767
Azerbaijan	0.1492	Gabon	0.0000*	Mauritania	0.0000*	South Korea	1.0000
Bangladesh	0.3194	Gambia	0.0000*	Mexico	0.1959	Spain	0.5468
Belarus	0.3194	Georgia	0.1425	Moldova	0.3991	Sri Lanka	0.0712
Belgium	0.9413	Germany	1.0000	Mongolia	0.1405	Sudan	0.1667
Benin	0.0000*	Ghana	0.0000*	Morocco	0.3044	Sweden	1.0000
Bolivia	0.1400	Greece	0.2933	Mozambique	0.2912	Switzerland	1.0000
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	0.4850	Guinea	0.0000*	Nepal	0.3288	Tajikistan	0.0000*
Bulgaria	0.2523	Guinea Bis.	0.0000*	Netherlands	0.9116	Tanzania	0.0000*
Burkina Faso	0.0842	Hondura	0.0246	New Zealand	0.5455	Thailand	0.1273
Burundi	0.0000*	Hungary	0.4353	Nicaragua	0.0225	Togo	0.0000*
C. African R.	0.0000*	India	0.4181	Niger	0.0000*	Tunisia	0.3112
Cambodia	0.0000*	Indonesia	0.0264	Nigeria	0.0000*	Turkey	0.3294
Cameroon	0.0000*	Iran	0.3315	Norway	0.8637	UAE	0.1141*
Canada	0.9548	Ireland	0.5986	Oman	0.0000*	Uganda	0.4012
Chad	0.0000*	Israel	1.0000	Pakistan	0.1100	UK	0.9368
Chile	0.3006	Italy	0.5640	Panama	0.1688	Ukraine	0.5722
China	0.7124	Japan	1.0000	Papua N.G.	0.0000*	Uruguay	0.1342
Colombia	0.0826	Jordan	0.0000*	Paraguay	0.0477	USA	1.0000
Congo	0.0000*	Kazakhstan	0.1018	Peru	0.0518	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.0000*	Philippines	0.0553	Venezuela	0.1925
Croatia	0.5500	Kuwait	0.0939	Poland	0.2869	Vietnam	0.0954
Czech Rep.	0.6332	Kyrgyzstan	0.0914	Portugal	0.3849	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	0.1994	Zambia	0.0049
Denmark	1.0000	Latvia	0.2020	Russia	0.5788	Zimbabwe	0.0000*

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2680	Min	0.0000	Std. Deviation	0.3301	5 Percentile	0.0000
Missing	0	Median	0.1225	Max	1.0000			95 Percentile	1.0000



**Indicator: Public health expenditure****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Public health expenditure consists of recurrent and capital spending from government budgets, external borrowings and grants, and social health insurance funds.**Sources:** World Bank (2007)**Period:** 1990-2005**Units:** percent of GDP**Most recent data**

Albania	2.3560	Ecuador	1.7280	Lebanon	3.4615	Rwanda	3.1460
Algeria	3.1820	Egypt	1.7934	Lithuania	4.3220	Saudi Arabia	3.3153
Angola	2.0950	El Salvador	3.5760	Macedonia, FYR	5.7596	Senegal	2.3052
Argentina	4.4678	Estonia	3.8913	Madagascar	1.1550	Sierra Leone	1.7487
Armenia	1.3260	Ethiopia	2.5593	Malawi	4.0278	Slovakia	5.2746
Australia	6.4505	Finland	5.5261	Malaysia	2.0444	Slovenia	6.2167
Austria	5.3823	France	7.3720	Mali	2.2860	South Africa	3.5322
Azerbaijan	0.8177	Gabon	1.7759	Mauritania	2.8938	South Korea	2.6450
Bangladesh	0.7812	Gambia	3.2558	Mexico	2.7389	Spain	5.4188
Belarus	4.7296	Georgia	1.0298	Moldova	4.0740	Sri Lanka	1.8019
Belgium	6.4792	Germany	8.5565	Mongolia	4.6464	Sudan	1.0143
Benin	2.0868	Ghana	2.2960	Morocco	1.5088	Sweden	7.8476
Bolivia	4.1860	Greece	5.0255	Mozambique	4.1180	Switzerland	6.4848
Botswana	3.7140	Guatemala	2.2800	Namibia	4.6967	Syria	2.3358
Brazil	3.6261	Guinea	0.8990	Nepal	1.4144	Tajikistan	0.9141
Bulgaria	4.4460	Guinea Bis.	3.0366	Netherlands	5.7728	Tanzania	2.6852
Burkina Faso	1.9737	Hondura	3.1744	New Zealand	6.6215	Thailand	3.0668
Burundi	0.6450	Hungary	5.4756	Nicaragua	3.8789	Togo	5.0720
C. African R.	1.6224	India	1.2993	Niger	2.0320	Tunisia	2.8942
Cambodia	2.0520	Indonesia	1.1520	Nigeria	1.2032	Turkey	4.2770
Cameroon	1.2052	Iran	2.8680	Norway	8.0160	UAE	2.2754
Canada	6.7104	Ireland	5.4896	Oman	2.7744	Uganda	2.0646
Chad	2.7235	Israel	5.9787	Pakistan	1.1168	UK	6.4218
Chile	2.6158	Italy	6.4260	Panama	6.3813	Ukraine	3.3417
China	1.9546	Japan	6.4543	Papua N.G.	3.8098	Uruguay	2.9000
Colombia	6.7149	Jordan	4.2873	Paraguay	3.2004	USA	6.5554
Congo	1.5466	Kazakhstan	1.8620	Peru	2.1956	Uzbekistan	2.5025
Cote d'Ivoire	1.3888	Kenya	2.1560	Philippines	1.1310	Venezuela	2.2981
Croatia	5.9422	Kuwait	2.8576	Poland	4.4164	Vietnam	1.5184
Czech Rep.	6.3980	Kyrgyzstan	2.2016	Portugal	6.5565	Yemen	1.0064
D.R. Congo	1.1480	Laos	1.4761	Romania	4.1517	Zambia	3.0682
Denmark	7.2952	Latvia	3.2691	Russia	3.4596	Zimbabwe	4.3860

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.4788	Min	0.6450	Std. Deviation	1.9282	5 Percentile	1.0197
Missing	0	Median	3.0675	Max	8.5565			95 Percentile	6.6793

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.6450$   $\tau=7.7196$

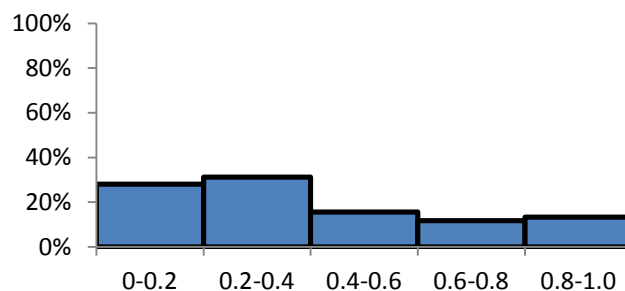
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.2422	Ecuador	0.1393	Lebanon	0.3996	Rwanda	0.3535
Algeria	0.3586	Egypt	0.1645	Lithuania	0.5263	Saudi Arabia	0.3785
Angola	0.2067	El Salvador	0.4011	Macedonia, FYR	0.7230	Senegal	0.2347
Argentina	0.5884	Estonia	0.4589	Madagascar	0.0754	Sierra Leone	0.1560
Armenia	0.1346	Ethiopia	0.2483	Malawi	0.4772	Slovakia	0.6444
Australia	0.8206	Finland	0.6899	Malaysia	0.1978	Slovenia	0.7876
Austria	0.6649	France	0.9509	Mali	0.2259	South Africa	0.4081
Azerbaijan	0.0283	Gabon	0.1599	Mauritania	0.3179	South Korea	0.2835
Bangladesh	0.0193	Gambia	0.3690	Mexico	0.2940	Spain	0.6710
Belarus	0.6007	Georgia	0.0664	Moldova	0.4213	Sri Lanka	0.1615
Belgium	0.8247	Germany	1.0000	Mongolia	0.5656	Sudan	0.0522
Benin	0.2070	Ghana	0.2340	Morocco	0.1218	Sweden	1.0000
Bolivia	0.5005	Greece	0.6233	Mozambique	0.4909	Switzerland	0.8255
Botswana	0.4338	Guatemala	0.2311	Namibia	0.5989	Syria	0.2359
Brazil	0.3805	Guinea	0.0359	Nepal	0.1088	Tajikistan	0.0380
Bulgaria	0.5074	Guinea Bis.	0.3381	Netherlands	0.7248	Tanzania	0.2884
Burkina Faso	0.1632	Hondura	0.3575	New Zealand	0.8228	Thailand	0.2355
Burundi	0.0006	Hungary	0.6557	Nicaragua	0.4431	Togo	0.6258
C. African R.	0.1378	India	0.0925	Niger	0.1961	Tunisia	0.3177
Cambodia	0.1989	Indonesia	0.0717	Nigeria	0.0789	Turkey	0.5134
Cameroon	0.0792	Iran	0.3142	Norway	0.9302	UAE	0.2305
Canada	0.8573	Ireland	0.6848	Oman	0.3010	Uganda	0.1965
Chad	0.2938	Israel	0.7578	Pakistan	0.0667	UK	0.8166
Chile	0.2786	Italy	0.8171	Panama	0.7838	Ukraine	0.3812
China	0.1870	Japan	0.8211	Papua N.G.	0.4473	Uruguay	0.3409
Colombia	0.8538	Jordan	0.5148	Paraguay	0.3534	USA	0.8354
Congo	0.1274	Kazakhstan	0.1720	Peru	0.2192	Uzbekistan	0.2626
Cote d'Ivoire	0.1051	Kenya	0.2148	Philippines	0.0687	Venezuela	0.2446
Croatia	0.7488	Kuwait	0.3128	Poland	0.5256	Vietnam	0.1235
Czech Rep.	0.8132	Kyrgyzstan	0.2200	Portugal	0.8356	Yemen	0.0632
D.R. Congo	0.0711	Laos	0.1226	Romania	0.4957	Zambia	0.3425
Denmark	0.9400	Latvia	0.3709	Russia	0.3687	Zimbabwe	0.5169

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3965	Min	0.0006	Std. Deviation	0.2673	5 Percentile	0.0644
Missing	0	Median	0.3417	Max	1.0000			95 Percentile	0.8475



## Indicator: Public wastewater treatment plants

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Water

**Tertiary indicator:** Response

**Explanation:** Connected means actually connected to a waste water treatment plant through a public sewage network. Non-public treatment plants, i.e., industrial waste water plants, or individual private treatment facilities such as septic tanks are not included. High connectivity improves water sustainability.

**Sources:** United Nations Environment Programme ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1546](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1546)); Eurostats ([http://epp.eurostat.ec.europa.eu/portal/page/portal/product\\_details/dataset?p\\_product\\_code=TSDNR320](http://epp.eurostat.ec.europa.eu/portal/page/portal/product_details/dataset?p_product_code=TSDNR320)); OECD (2005a); Fao - Water (<http://www.fao.org/nr/water>); World Health Organization ([www.euro.who.int/Document/EHI/ENHIS\\_Factsheet\\_1\\_3.pdf](http://www.euro.who.int/Document/EHI/ENHIS_Factsheet_1_3.pdf))

**Period:** 1990-2005

**Units:** percent of population connected

### Most recent data

Albania	0.0000	Ecuador	-	Lebanon	2.4200*	Rwanda	0.0000*
Algeria	3.9000	Egypt	-	Lithuania	59.0000	Saudi Arabia	75.0700*
Angola	0.0000*	El Salvador	-	Macedonia, FYR	-	Senegal	0.0000*
Argentina	42.5000	Estonia	73.0000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	24.5200*	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	52.3000
Australia	89.0000*	Finland	81.0000	Malaysia	14.8000*	Slovenia	31.1000
Austria	86.0000	France	79.4000	Mali	0.0000*	South Africa	-
Azerbaijan	30.0000	Gabon	0.0000*	Mauritania	0.0000*	South Korea	78.8000
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	35.0000	Spain	55.0000
Belarus	-	Georgia	-	Moldova	60.0000	Sri Lanka	0.0000*
Belgium	45.9000	Germany	97.3000	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	6.1500*	Sweden	85.0000
Bolivia	24.7100*	Greece	56.2000	Mozambique	0.0000*	Switzerland	96.7000
Botswana	0.0000*	Guatemala	1.7700*	Namibia	0.0000*	Syria	40.4400*
Brazil	34.4400*	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	38.1000	Guinea Bis.	0.0000*	Netherlands	98.6000	Tanzania	0.0000*
Burkina Faso	0.0000*	Hondura	-	New Zealand	80.0000	Thailand	7.0000*
Burundi	0.0000*	Hungary	57.4000	Nicaragua	8.9000*	Togo	0.0000*
C. African R.	0.0000*	India	-	Niger	0.0000*	Tunisia	46.8000
Cambodia	0.0000	Indonesia	-	Nigeria	0.0000*	Turkey	24.5000
Cameroon	0.0000*	Iran	4.2200*	Norway	75.9000	UAE	21.6000*
Canada	75.0000	Ireland	82.0000	Oman	0.1090*	Uganda	0.0000*
Chad	0.0000*	Israel	62.8900*	Pakistan	-	UK	97.5000
Chile	73.3000	Italy	93.6000	Panama	37.0000	Ukraine	-
China	32.5000	Japan	67.0000	Papua N.G.	0.0000*	Uruguay	-
Colombia	6.7900	Jordan	-	Paraguay	-	USA	71.4000
Congo	0.0000*	Kazakhstan	14.9700*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000	Kenya	0.0000*	Philippines	1.3500*	Venezuela	-
Croatia	-	Kuwait	86.5500	Poland	58.1000	Vietnam	0.0000*
Czech Rep.	72.8000	Kyrgyzstan	0.0000	Portugal	60.0000	Yemen	0.0000*
D.R. Congo	-	Laos	0.0000	Romania	16.9000	Zambia	0.0000*
Denmark	87.9000	Latvia	71.0000	Russia	-	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	108	Mean	28.6398	Min	0.0000	Std. Deviation	34.2084	5 Percentile	0.0000
Missing	20	Median	6.4700	Max	98.6000			95 Percentile	88.6150



## Normalization

Type *LB (larger is better)* Parameters  $\tau=0.0000$   $u=78.9571$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

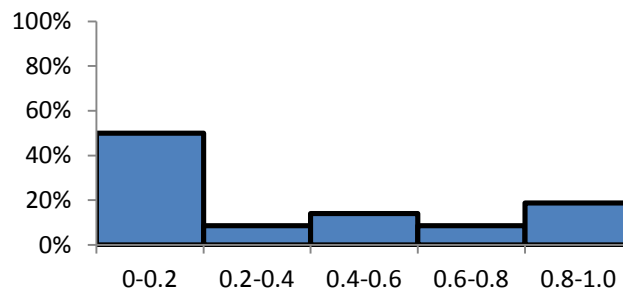
## Smoothed data

Albania	0.0000	Ecuador	0.4291**	Lebanon	0.0306*	Rwanda	0.0000*
Algeria	0.0494	Egypt	0.2736**	Lithuania	0.7472	Saudi Arabia	0.9508*
Angola	0.0000*	El Salvador	0.4686**	Macedonia, FYR	0.5482**	Senegal	0.0000*
Argentina	0.5383	Estonia	0.9246	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.3105*	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.6624
Australia	1.0000*	Finland	1.0000	Malaysia	0.1874*	Slovenia	0.3863
Austria	1.0000	France	1.0000	Mali	0.0000*	South Africa	0.1874**
Azerbaijan	0.3800	Gabon	0.0000*	Mauritania	0.0000*	South Korea	0.9980
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	0.4433	Spain	0.6966
Belarus	0.4531**	Georgia	0.3105**	Moldova	0.7599	Sri Lanka	0.0000*
Belgium	0.5813	Germany	0.8418	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.0779*	Sweden	1.0000
Bolivia	0.3130*	Greece	0.7118	Mozambique	0.0000*	Switzerland	1.0000
Botswana	0.0000*	Guatemala	0.0224*	Namibia	0.0000*	Syria	0.5122*
Brazil	0.4362*	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.4825	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000*
Burkina Faso	0.0000*	Hondura	0.0676**	New Zealand	1.0000	Thailand	0.0887*
Burundi	0.0000*	Hungary	0.4830	Nicaragua	0.1127*	Togo	0.0000*
C. African R.	0.0000*	India	0.3103**	Niger	0.0000*	Tunisia	0.5927
Cambodia	0.0000	Indonesia	0.7118**	Nigeria	0.0000*	Turkey	0.3103
Cameroon	0.0000*	Iran	0.0534*	Norway	0.9613	UAE	0.2736*
Canada	0.9360	Ireland	1.0000	Oman	0.0014*	Uganda	0.0000*
Chad	0.0000*	Israel	0.7965*	Pakistan	0.0534**	UK	1.0000
Chile	0.9284	Italy	0.9204	Panama	0.4686	Ukraine	0.7599**
China	0.4116	Japan	0.8486	Papua N.G.	0.0000*	Uruguay	0.4291**
Colombia	0.0860*	Jordan	0.3800**	Paraguay	0.4291**	USA	0.9043
Congo	0.0000*	Kazakhstan	0.1896*	Peru	0.4291**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000	Kenya	0.0000*	Philippines	0.0171*	Venezuela	0.4291**
Croatia	0.0000**	Kuwait	1.0000	Poland	0.7358	Vietnam	0.0000*
Czech Rep.	0.9220	Kyrgyzstan	0.0000	Portugal	0.7599	Yemen	0.0000*
D.R. Congo	0.0000**	Laos	0.0000	Romania	0.2140	Zambia	0.0000*
Denmark	1.0000	Latvia	0.8992	Russia	0.6624**	Zimbabwe	0.0000*

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3460	Min	0.0000	Std. Deviation	0.3774	5 Percentile	0.0000
Missing	0	Median	0.2018	Max	1.0000			95 Percentile	1.0000





**Indicator: Refugees per capita****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** Refugees are people who are recognized as refugees under the 1951 Convention Relating to the Status of Refugees or its 1967 Protocol, the 1969 Organization of African Unity Convention Governing the Specific Aspects of Refugee Problems in Africa, people recognized as refugees in accordance with the UNHCR statute, people granted a refugee-like humanitarian status, and people provided with temporary protection.**Sources:** World Bank (2007)  
United Nations Statistics Division  
(<http://data.un.org/Data.aspx?q=refugees&d=UNHCR&f=indID%3aType-Ref>)**Period:** 1990-2005**Units:** ratio of refugees from a country to total population of that country**Most recent data**

Albania	0.0041	Ecuador	0.0001	Lebanon	0.0051	Rwanda	0.0111
Algeria	0.0004	Egypt	0.0001	Lithuania	0.0000	Saudi Arabia	0.0000
Angola	0.0135	El Salvador	0.0006	Macedonia, FYR	0.0042	Senegal	0.0007
Argentina	0.0000	Estonia	0.0006	Madagascar	0.0000	Sierra Leone	0.0073
Armenia	0.0046	Ethiopia	0.0009	Malawi	0.0000	Slovakia	0.0000
Australia	0.0000	Finland	0.0000	Malaysia	0.0000	Slovenia	0.0000
Austria	0.0000	France	0.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0279	Gabon	0.0001	Mauritania	0.0103	South Korea	0.0000
Bangladesh	0.0001	Gambia	0.0011	Mexico	0.0000	Spain	0.0000
Belarus	0.0009	Georgia	0.0016	Moldova	0.0029	Sri Lanka	0.0055
Belgium	0.0000	Germany	0.0000	Mongolia	0.0000	Sudan	0.0191
Benin	0.0000	Ghana	0.0008	Morocco	0.0001	Sweden	0.0000
Bolivia	0.0000	Greece	0.0000	Mozambique	0.0000	Switzerland	0.0000
Botswana	0.0000	Guatemala	0.0003	Namibia	0.0006	Syria	0.0009
Brazil	0.0000	Guinea	0.0006	Nepal	0.0001	Tajikistan	0.0084
Bulgaria	0.0000	Guinea Bis.	0.0007	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0001	New Zealand	0.0000	Thailand	0.0000
Burundi	0.0581	Hungary	0.0000	Nicaragua	0.0003	Togo	0.0083
C. African R.	0.0106	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0013	Indonesia	0.0002	Nigeria	0.0002	Turkey	0.0024
Cameroon	0.0006	Iran	0.0015	Norway	0.0000	UAE	0.0000
Canada	0.0000	Ireland	0.0000	Oman	0.0000	Uganda	0.0012
Chad	0.0050	Israel	0.0000	Pakistan	0.0002	UK	0.0000
Chile	0.0001	Italy	0.0000	Panama	0.0000	Ukraine	0.0018
China	0.0001	Japan	0.0000	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0013	Jordan	0.0000	Paraguay	0.0000	USA	0.0000
Congo	0.0061	Kazakhstan	0.0003	Peru	0.0002	Uzbekistan	0.0003
Cote d'Ivoire	0.0010	Kenya	0.0001	Philippines	0.0000	Venezuela	0.0000
Croatia	0.0268	Kuwait	0.0000	Poland	0.0005	Vietnam	0.0043
Czech Rep.	0.0004	Kyrgyzstan	0.0006	Portugal	0.0000	Yemen	0.0000
D.R. Congo	0.0075	Laos	0.0041	Romania	0.0005	Zambia	-
Denmark	0.0000	Latvia	0.0000	Russia	0.0007	Zimbabwe	0.0009

**Descriptive Statistics - based on most recent data**

Available	127	Mean	0.0022	Min	0.0000	Std. Deviation	0.0067	5 Percentile	0.0000
Missing	1	Median	0.0001	Max	0.0581			95 Percentile	0.0105

## Normalization

Type SB (smaller is better)

Parameters

U=0.0000

T=0.0000

Comments

T (a zero value is sustainable)

U (all values above zero are unsustainable)

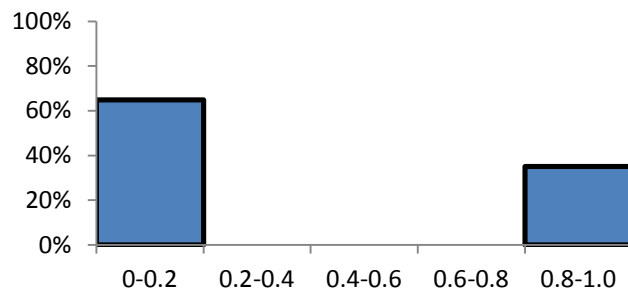
## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	1.0000	Estonia	0.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	1.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	1.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0625	Guatemala	0.0000	Namibia	0.0000	Syria	0.0000
Brazil	0.0000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	1.0000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	1.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	1.0000
Canada	0.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.0000
Chad	0.0000	Israel	1.0000	Pakistan	0.0000	UK	1.0000
Chile	0.0000	Italy	1.0000	Panama	1.0000	Ukraine	0.0000
China	0.0000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.0000	Jordan	1.0000	Paraguay	1.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	1.0000
Croatia	0.0000	Kuwait	1.0000	Poland	0.0000	Vietnam	0.0000
Czech Rep.	0.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000**
Denmark	1.0000	Latvia	1.0000	Russia	0.0000	Zimbabwe	0.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3521	Min	0.0000	Std. Deviation	0.4790	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Renewable energy production

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Air

**Tertiary indicator:** Response

**Explanation:** It refers to renewable energy production. The higher the proportion of renewable energy sources, the less a country relies on environmentally damaging sources such as fossil fuel and nuclear energy.

**Sources:** IEA (International Energy Agency) (<http://www.iea.org>)  
Human Development Report (<http://hdr.undp.org>)

**Period:** 1990-2005

**Units:** percent of total primary energy supply

### Most recent data

Albania	26.3000	Ecuador	12.1000	Lebanon	4.3000	Rwanda	-
Algeria	0.3000	Egypt	4.5000	Lithuania	8.0000	Saudi Arabia	0.0000
Angola	66.0000	El Salvador	54.6000	Macedonia, FYR	11.5000	Senegal	39.8000
Argentina	7.5000	Estonia	8.2000	Madagascar	-	Sierra Leone	-
Armenia	8.1000	Ethiopia	91.5000	Malawi	-	Slovakia	4.6000
Australia	5.5000	Finland	23.3000	Malaysia	5.8000	Slovenia	10.7000
Austria	21.3000	France	6.0000	Mali	-	South Africa	10.8000
Azerbaijan	1.9000	Gabon	63.3000	Mauritania	-	South Korea	1.2000
Bangladesh	36.2000	Gambia	-	Mexico	9.7000	Spain	6.0000
Belarus	3.7000	Georgia	41.6000	Moldova	2.2000	Sri Lanka	54.7000
Belgium	2.9000	Germany	4.9000	Mongolia	1.7000	Sudan	79.7000
Benin	65.6000	Ghana	74.6000	Morocco	5.3000	Sweden	29.4000
Bolivia	18.4000	Greece	5.3000	Mozambique	95.8000	Switzerland	17.6000
Botswana	24.5000	Guatemala	55.7000	Namibia	24.0000	Syria	2.0000
Brazil	40.4000	Guinea	-	Nepal	89.0000	Tajikistan	43.5000
Bulgaria	5.2000	Guinea Bis.	-	Netherlands	3.5000	Tanzania	92.7000
Burkina Faso	-	Hondura	45.3000	New Zealand	28.9000	Thailand	16.9000
Burundi	-	Hungary	4.4000	Nicaragua	58.6000	Togo	71.1000
C. African R.	-	India	31.1000	Niger	-	Tunisia	12.6000
Cambodia	73.3000	Indonesia	30.8000	Nigeria	80.8000	Turkey	11.9000
Cameroon	82.7000	Iran	1.2000	Norway	40.6000	UAE	0.0000
Canada	16.2000	Ireland	2.6000	Oman	0.0000	Uganda	-
Chad	-	Israel	3.5000	Pakistan	38.6000	UK	2.0000
Chile	22.5000	Italy	6.5000	Panama	29.6000	Ukraine	0.9000
China	15.0000	Japan	3.2000	Papua N.G.	-	Uruguay	29.7000
Colombia	27.4000	Jordan	1.2000	Paraguay	164.9000	USA	4.7000
Congo	64.9000	Kazakhstan	1.4000	Peru	29.5000	Uzbekistan	1.0000
Cote d'Ivoire	67.1000	Kenya	80.8000	Philippines	45.6000	Venezuela	11.7000
Croatia	11.1000	Kuwait	0.0000	Poland	5.3000	Vietnam	50.2000
Czech Rep.	4.3000	Kyrgyzstan	43.7000	Portugal	13.2000	Yemen	1.2000
D.R. Congo	96.0000	Laos	-	Romania	12.0000	Zambia	89.6000
Denmark	16.1000	Latvia	35.9000	Russia	3.4000	Zimbabwe	68.9000

### Descriptive Statistics - based on most recent data

Available	111	Mean	28.3288	Min	0.0000	Std. Deviation	31.0069	5 Percentile	0.9500
Missing	17	Median	15.0000	Max	164.9000			95 Percentile	89.3000

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=20.0000$   
 Comments  $u=\min$   $r=EU\ target$

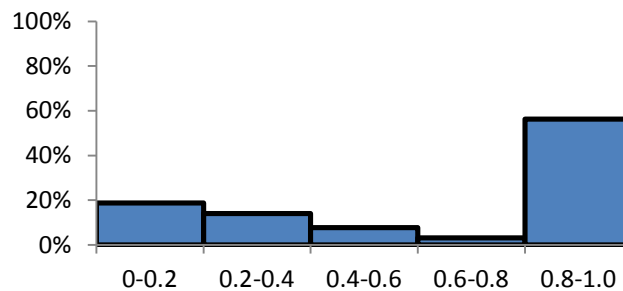
## Smoothed data

Albania	1.0000	Ecuador	0.6050	Lebanon	0.2150	Rwanda	1.0000**
Algeria	0.0150	Egypt	0.2250	Lithuania	0.4000	Saudi Arabia	0.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.5750	Senegal	1.0000
Argentina	0.3750	Estonia	0.4088	Madagascar	1.0000**	Sierra Leone	1.0000**
Armenia	0.4050	Ethiopia	1.0000	Malawi	1.0000**	Slovakia	0.2300
Australia	0.2851	Finland	1.0000	Malaysia	0.2900	Slovenia	0.5510
Austria	1.0000	France	0.3013	Mali	1.0000**	South Africa	0.5691
Azerbaijan	0.0950	Gabon	1.0000	Mauritania	1.0000**	South Korea	0.0597
Bangladesh	1.0000	Gambia	1.0000**	Mexico	0.4845	Spain	0.3078
Belarus	0.1850	Georgia	1.0000	Moldova	0.1100	Sri Lanka	1.0000
Belgium	0.1450	Germany	0.2450	Mongolia	0.0850	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	0.2650	Sweden	1.0000
Bolivia	0.9200	Greece	0.2618	Mozambique	1.0000	Switzerland	0.8783
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	0.1000
Brazil	1.0000	Guinea	1.0000**	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.2600	Guinea Bis.	1.0000**	Netherlands	0.1750	Tanzania	1.0000
Burkina Faso	1.0000**	Hondura	1.0000	New Zealand	1.0000	Thailand	0.8450
Burundi	1.0000**	Hungary	0.2188	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000**	India	1.0000	Niger	1.0000**	Tunisia	0.6300
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.5950
Cameroon	1.0000	Iran	0.0600	Norway	1.0000	UAE	0.0000
Canada	0.8026	Ireland	0.1300	Oman	0.0000	Uganda	1.0000**
Chad	1.0000**	Israel	0.1749	Pakistan	1.0000	UK	0.1000
Chile	1.0000	Italy	0.3265	Panama	1.0000	Ukraine	0.0450
China	0.7500	Japan	0.1649	Papua N.G.	1.0000**	Uruguay	1.0000
Colombia	1.0000	Jordan	0.0600	Paraguay	1.0000	USA	0.2350
Congo	1.0000	Kazakhstan	0.0700	Peru	1.0000	Uzbekistan	0.0500
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	0.5850
Croatia	0.5550	Kuwait	0.0000	Poland	0.2650	Vietnam	1.0000
Czech Rep.	0.2150	Kyrgyzstan	1.0000	Portugal	0.7302	Yemen	0.0600
D.R. Congo	1.0000	Laos	1.0000**	Romania	0.6000	Zambia	1.0000
Denmark	0.8050	Latvia	1.0000	Russia	0.1694	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6740	Min	0.0000	Std. Deviation	0.3856	5 Percentile	0.0534
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator:** Secondary education teaching staff**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Pressure**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.**Sources:** UNESCO  
(<http://stats.uis.unesco.org/unesco/ReportFolders/ReportFolders.aspx>)**Period:** 1990-2005**Units:** ratio of students to teaching staff**Most recent data**

Albania	17.6658	Ecuador	13.2741	Lebanon	7.5790	Rwanda	26.7998
Algeria	20.8425	Egypt	17.2801	Lithuania	10.8687	Saudi Arabia	11.6502
Angola	18.2696	El Salvador	29.0000	Macedonia, FYR	15.6122	Senegal	27.0993
Argentina	17.3513	Estonia	10.0554	Madagascar	17.0186	Sierra Leone	26.6382
Armenia	10.2218	Ethiopia	47.4562	Malawi	45.5713	Slovakia	12.9220
Australia	13.0000	Finland	12.0000	Malaysia	17.7151	Slovenia	13.7322
Austria	10.5251	France	11.4673	Mali	29.3286	South Africa	29.6899
Azerbaijan	8.7278	Gabon	28.1166	Mauritania	26.0757	South Korea	17.6832
Bangladesh	34.3674	Gambia	25.4634	Mexico	17.1406	Spain	11.1086
Belarus	9.4250	Georgia	9.1973	Moldova	13.2431	Sri Lanka	19.6867
Belgium	10.0000	Germany	14.1866	Mongolia	21.5172	Sudan	25.5254
Benin	21.5987	Ghana	18.7895	Morocco	18.0971	Sweden	12.7264
Bolivia	24.3168	Greece	8.6002	Mozambique	27.2364	Switzerland	9.9933
Botswana	16.0413	Guatemala	13.6924	Namibia	23.5302	Syria	17.9055
Brazil	19.1207	Guinea	29.8704	Nepal	34.6875	Tajikistan	17.2699
Bulgaria	12.3084	Guinea Bis.	14.4341	Netherlands	13.0854	Tanzania	17.0000
Burkina Faso	31.3420	Hondura	20.0000	New Zealand	14.1857	Thailand	24.8638
Burundi	19.1540	Hungary	10.9614	Nicaragua	33.8895	Togo	31.1830
C. African R.	37.0000	India	32.3249	Niger	30.2079	Tunisia	20.0653
Cambodia	23.5882	Indonesia	14.2342	Nigeria	35.0187	Turkey	23.0000
Cameroon	21.1242	Iran	28.4357	Norway	8.7047	UAE	13.6214
Canada	17.7250	Ireland	15.0000	Oman	16.4867	Uganda	17.6655
Chad	32.2212	Israel	9.9045	Pakistan	20.0000	UK	19.0537
Chile	33.0543	Italy	10.5758	Panama	16.0909	Ukraine	13.1307
China	18.6112	Japan	13.2181	Papua N.G.	22.6039	Uruguay	18.0275
Colombia	20.9247	Jordan	17.8783	Paraguay	11.8611	USA	14.9155
Congo	25.7152	Kazakhstan	11.7397	Peru	18.9135	Uzbekistan	13.0000
Cote d'Ivoire	29.3952	Kenya	26.1369	Philippines	37.0865	Venezuela	11.0000
Croatia	10.8636	Kuwait	10.2867	Poland	14.1146	Vietnam	25.5857
Czech Rep.	10.7477	Kyrgyzstan	14.0397	Portugal	8.7761	Yemen	14.1143
D.R. Congo	13.7998	Laos	25.6599	Romania	13.4748	Zambia	34.2236
Denmark	10.0527	Latvia	11.1468	Russia	10.8268	Zimbabwe	22.3245

**Descriptive Statistics - based on most recent data**

Available	128	Mean	19.1975	Min	7.5790	Std. Deviation	8.3181	5 Percentile	9.5928
Missing	0	Median	17.6657	Max	47.4562			95 Percentile	34.3170

## Normalization

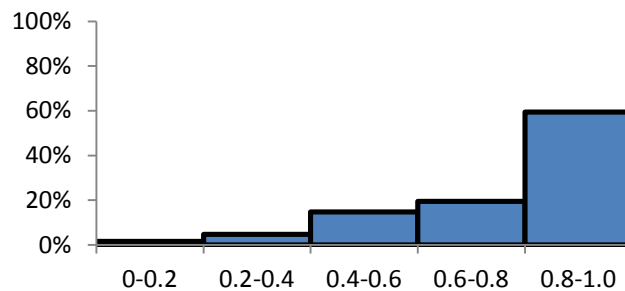
Type *SB (smaller is better)* Parameters *U=11.9398* *T=47.4562*  
 Comments *T=average of EU-14* *U=max*

## Smoothed data

Albania	0.8388	Ecuador	0.9621	Lebanon	1.0000	Rwanda	0.5816
Algeria	0.7493	Egypt	0.8495	Lithuania	1.0000	Saudi Arabia	0.9938
Angola	0.8218	El Salvador	0.5197	Macedonia, FYR	0.8934	Senegal	0.5971
Argentina	0.9283	Estonia	1.0000	Madagascar	0.8570	Sierra Leone	0.5862
Armenia	1.0000	Ethiopia	0.0000	Malawi	0.0531	Slovakia	0.9755
Australia	0.9702	Finland	0.9983	Malaysia	0.8374	Slovenia	0.9649
Austria	1.0000	France	1.0000	Mali	0.5104	South Africa	0.5309
Azerbaijan	1.0000	Gabon	0.5445	Mauritania	0.6020	South Korea	0.8383
Bangladesh	0.3685	Gambia	0.6193	Mexico	0.8536	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	0.9633	Sri Lanka	0.7819
Belgium	1.0000	Germany	0.9367	Mongolia	0.7303	Sudan	0.6175
Benin	0.7280	Ghana	0.8089	Morocco	0.8266	Sweden	0.9779
Bolivia	0.6490	Greece	1.0000	Mozambique	0.5693	Switzerland	1.0000
Botswana	0.8845	Guatemala	0.9479	Namibia	0.6737	Syria	0.8320
Brazil	0.7978	Guinea	0.4951	Nepal	0.4422	Tajikistan	0.8477
Bulgaria	0.9928	Guinea Bis.	0.9298	Netherlands	0.9677	Tanzania	0.8575
Burkina Faso	0.4537	Hondura	0.7731	New Zealand	0.9368	Thailand	0.6361
Burundi	0.7969	Hungary	1.0000	Nicaragua	0.3869	Togo	0.4582
C. African R.	0.2944	India	0.4260	Niger	0.4856	Tunisia	0.7898
Cambodia	0.6720	Indonesia	0.9354	Nigeria	0.3502	Turkey	0.6886
Cameroon	0.7414	Iran	0.5355	Norway	1.0000	UAE	0.9628
Canada	0.8371	Ireland	0.9138	Oman	0.8720	Uganda	0.8388
Chad	0.4290	Israel	1.0000	Pakistan	0.7731	UK	0.7984
Chile	0.4055	Italy	1.0000	Panama	0.8839	Ukraine	0.9663
China	0.8122	Japan	0.9640	Papua N.G.	0.7210	Uruguay	0.8914
Colombia	0.7861	Jordan	0.8328	Paraguay	1.0000	USA	0.9167
Congo	0.6121	Kazakhstan	1.0000	Peru	0.8037	Uzbekistan	0.9702
Cote d'Ivoire	0.5085	Kenya	0.5871	Philippines	0.2874	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	0.9662	Vietnam	0.6158
Czech Rep.	0.9766	Kyrgyzstan	0.9469	Portugal	1.0000	Yemen	0.9388
D.R. Congo	0.9476	Laos	0.6137	Romania	0.9644	Zambia	0.3726
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.6701

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7879	Min	0.0000	Std. Deviation	0.2222	5 Percentile	0.3776
Missing	0	Median	0.8432	Max	1.0000			95 Percentile	1.0000



## Indicator: Secondary net school enrollment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** Number of children of official school age, as defined by the education system, enrolled in secondary school, expressed as percentage of the total number of children of that age.

**Sources:** World Bank (2007); United Nations (<http://unstats.un.org/unsd/demographic/products/socind/education.htm>) UNICEF (<http://www.unicef.org/infobycountry/index.html>); World Resources Institute ([http://earthtrends.wri.org/country\\_profiles/index.php?theme=4](http://earthtrends.wri.org/country_profiles/index.php?theme=4))

**Period:** 1990-2005

**Units:** percent of children

### Most recent data

Albania	73.9111	Ecuador	50.3745	Lebanon	74.0000	Rwanda	7.2972
Algeria	66.7783	Egypt	80.8394	Lithuania	92.8507	Saudi Arabia	52.7396
Angola	31.0000*	El Salvador	48.5683	Macedonia, FYR	81.1838	Senegal	17.0000
Argentina	80.7505	Estonia	86.7938	Madagascar	11.4595	Sierra Leone	23.0000
Armenia	83.7983	Ethiopia	14.9750	Malawi	28.5256	Slovakia	86.6120
Australia	88.0102	Finland	94.3837	Malaysia	69.3657	Slovenia	92.6764
Austria	88.5100	France	93.2969	Mali	5.0647	South Africa	65.5447
Azerbaijan	75.8599	Gabon	-	Mauritania	16.0912	South Korea	87.0711
Bangladesh	44.4582	Gambia	32.6849	Mexico	60.1676	Spain	94.0127
Belarus	84.8383	Georgia	61.3423	Moldova	69.0103	Sri Lanka	76.0000*
Belgium	95.3596	Germany	88.0786	Mongolia	77.3987	Sudan	-
Benin	20.0566	Ghana	33.3898	Morocco	35.7397	Sweden	98.6027
Bolivia	71.2067	Greece	84.9459	Mozambique	12.2049	Switzerland	87.1757
Botswana	53.5921	Guatemala	29.6593	Namibia	44.1740	Syria	42.9013
Brazil	71.6183	Guinea	20.8094	Nepal	54.0000*	Tajikistan	79.4896
Bulgaria	86.6931	Guinea Bis.	8.8076	Netherlands	90.3864	Tanzania	-
Burkina Faso	9.0259	Hondura	36.0000*	New Zealand	92.6509	Thailand	72.0000
Burundi	8.6432	Hungary	92.1147	Nicaragua	38.9639	Togo	26.6331
C. African R.	11.0000	India	40.0000*	Niger	6.0959	Tunisia	67.8391
Cambodia	17.6967	Indonesia	48.3257	Nigeria	26.0000	Turkey	42.1053
Cameroon	40.0000*	Iran	-	Norway	95.0294	UAE	70.9503
Canada	97.6398	Ireland	82.3934	Oman	69.2580	Uganda	14.1864
Chad	10.3901	Israel	88.9377	Pakistan	28.0000	UK	95.5626
Chile	78.6023	Italy	90.5361	Panama	63.0071	Ukraine	84.5553
China	50.0000*	Japan	99.6750	Papua N.G.	23.6654	Uruguay	71.7082
Colombia	53.5037	Jordan	80.5168	Paraguay	50.0913	USA	85.3159
Congo	84.0000*	Kazakhstan	86.8223	Peru	68.9031	Uzbekistan	-
Cote d'Ivoire	20.8470	Kenya	24.5412	Philippines	56.4661	Venezuela	59.2212
Croatia	86.6180	Kuwait	77.1603	Poland	90.8315	Vietnam	65.3143
Czech Rep.	89.4786	Kyrgyzstan	81.0000	Portugal	84.5319	Yemen	34.5138
D.R. Congo	12.0000*	Laos	35.1191	Romania	80.0117	Zambia	22.7659
Denmark	92.8940	Latvia	87.5842	Russia	88.0000*	Zimbabwe	37.8254

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	123	Mean	59.3675	Min	5.0647	Std. Deviation	29.0133	5 Percentile	10.4511
Missing	5	Median	68.9031	Max	99.6750			95 Percentile	94.3466

## Normalization

Type *LB (larger is better)* Parameters  $u=5.0647$   $\tau=90.9639$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

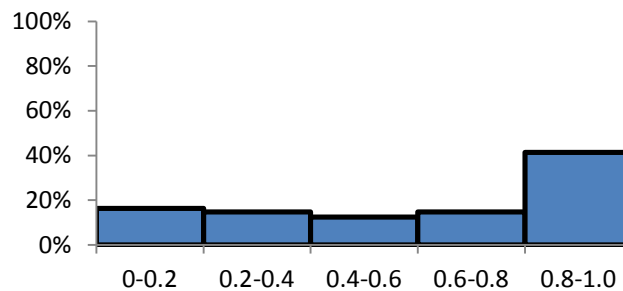
## Smoothed data

Albania	0.7830	Ecuador	0.5275	Lebanon	0.8025	Rwanda	0.0260
Algeria	0.7184	Egypt	0.8641	Lithuania	1.0000	Saudi Arabia	0.5555
Angola	0.3019*	El Salvador	0.5064	Macedonia, FYR	0.8861	Senegal	0.1389
Argentina	0.8811	Estonia	0.9515	Madagascar	0.0744	Sierra Leone	0.2088
Armenia	0.9225	Ethiopia	0.1056	Malawi	0.2770	Slovakia	0.9493
Australia	0.9686	Finland	1.0000	Malaysia	0.7486	Slovenia	1.0000
Austria	0.9699	France	1.0000	Mali	0.0000	South Africa	0.7041
Azerbaijan	0.8189	Gabon	0.3433**	Mauritania	0.1193	South Korea	0.9547
Bangladesh	0.4586	Gambia	0.3205	Mexico	0.6415	Spain	1.0000
Belarus	0.9287	Georgia	0.6562	Moldova	0.7402	Sri Lanka	0.8258*
Belgium	1.0000	Germany	0.9640	Mongolia	0.8421	Sudan	0.0392**
Benin	0.1745	Ghana	0.3269	Morocco	0.3571	Sweden	1.0000
Bolivia	0.7700	Greece	0.9243	Mozambique	0.0831	Switzerland	0.9559
Botswana	0.5649	Guatemala	0.2863	Namibia	0.4553	Syria	0.4405
Brazil	0.7748	Guinea	0.1833	Nepal	0.5697*	Tajikistan	0.8664
Bulgaria	0.9503	Guinea Bis.	0.0436	Netherlands	0.9932	Tanzania	0.0744**
Burkina Faso	0.0392	Hondura	0.3601*	New Zealand	1.0000	Thailand	0.7792
Burundi	0.0417	Hungary	1.0000	Nicaragua	0.3946	Togo	0.2507
C. African R.	0.0691	India	0.4067*	Niger	0.0069	Tunisia	0.7408
Cambodia	0.1524	Indonesia	0.5036	Nigeria	0.2437	Turkey	0.4312
Cameroon	0.4067*	Iran	0.7184**	Norway	1.0000	UAE	0.7780
Canada	1.0000	Ireland	0.8962	Oman	0.7473	Uganda	0.1062
Chad	0.0620	Israel	0.9764	Pakistan	0.2654	UK	1.0000
Chile	0.8561	Italy	0.9950	Panama	0.6745	Ukraine	0.9254
China	0.5231*	Japan	1.0000	Papua N.G.	0.2165	Uruguay	0.7758
Colombia	0.5795	Jordan	0.8784	Paraguay	0.5242	USA	0.9440
Congo	0.9189*	Kazakhstan	0.9518	Peru	0.7432	Uzbekistan	0.9007**
Cote d'Ivoire	0.1837	Kenya	0.2267	Philippines	0.5984	Venezuela	0.6305
Croatia	0.9494	Kuwait	0.8393	Poland	0.9985	Vietnam	0.7014
Czech Rep.	0.9827	Kyrgyzstan	0.8840	Portugal	0.9374	Yemen	0.3428
D.R. Congo	0.0807*	Laos	0.3499	Romania	0.8725	Zambia	0.2061
Denmark	1.0000	Latvia	0.9607	Russia	0.9655*	Zimbabwe	0.3931

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6188	Min	0.0000	Std. Deviation	0.3349	5 Percentile	0.0500
Missing	0	Median	0.7293	Max	1.0000			95 Percentile	1.0000





**Indicator:** Tax revenue**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Response**Explanation:** Tax revenue refers to compulsory transfers (payments) to the central government for public purposes. Certain compulsory transfers such as fines, penalties, and most social security contributions are excluded. Refunds and corrections of erroneously collected tax revenue are treated as negative revenue.**Sources:** World Bank (2007); Heritage Foundation (<http://www.heritage.org>)**Period:** 1990-2005**Units:** percent of GDP**Most recent data**

Albania	13.5980	Ecuador	13.2000	Lebanon	15.1330	Rwanda	9.0483
Algeria	32.0023	Egypt	16.5047	Lithuania	17.4314	Saudi Arabia	5.3000
Angola	5.7000	El Salvador	11.2851	Macedonia, FYR	29.3000	Senegal	17.0485
Argentina	9.4313	Estonia	15.4575	Madagascar	7.6696	Sierra Leone	6.8176
Armenia	14.0111	Ethiopia	12.9004	Malawi	20.7000	Slovakia	16.7909
Australia	24.1247	Finland	22.9581	Malaysia	17.6230	Slovenia	21.6098
Austria	20.9693	France	22.5720	Mali	15.3000	South Africa	25.1413
Azerbaijan	12.7335	Gabon	10.3000	Mauritania	15.4000	South Korea	15.3977
Bangladesh	8.0715	Gambia	18.2048	Mexico	11.6573	Spain	12.9148
Belarus	14.2010	Georgia	7.0243	Moldova	14.8460	Sri Lanka	14.0135
Belgium	26.7143	Germany	11.5475	Mongolia	22.5807	Sudan	6.3477
Benin	15.4000	Ghana	13.1492	Morocco	23.4721	Sweden	19.0461
Bolivia	13.3289	Greece	26.0397	Mozambique	13.4000	Switzerland	10.2173
Botswana	15.0707	Guatemala	10.3453	Namibia	29.5595	Syria	17.4276
Brazil	12.1513	Guinea	12.0400	Nepal	9.3677	Tajikistan	8.3154
Bulgaria	18.9694	Guinea Bis.	11.5000	Netherlands	22.7560	Tanzania	12.0000
Burkina Faso	11.5000	Hondura	15.6000	New Zealand	30.8285	Thailand	15.4265
Burundi	15.3838	Hungary	22.1747	Nicaragua	15.2783	Togo	15.5000
C. African R.	7.7000	India	9.1131	Niger	11.0000	Tunisia	20.5539
Cambodia	8.0000	Indonesia	12.9877	Nigeria	6.1000	Turkey	20.2071
Cameroon	8.5338	Iran	6.6857	Norway	27.4711	UAE	1.7250
Canada	14.0580	Ireland	20.8425	Oman	7.3905	Uganda	11.7886
Chad	4.2000	Israel	29.8718	Pakistan	10.9054	UK	27.1806
Chile	16.2214	Italy	23.8711	Panama	9.2601	Ukraine	14.0144
China	8.3407	Japan	11.8554	Papua N.G.	22.2817	Uruguay	17.4620
Colombia	13.9052	Jordan	18.8374	Paraguay	9.4740	USA	9.9237
Congo	8.3690	Kazakhstan	13.5601	Peru	12.9336	Uzbekistan	21.0000
Cote d'Ivoire	14.9031	Kenya	22.8449	Philippines	12.3275	Venezuela	11.2705
Croatia	24.4459	Kuwait	1.3057	Poland	17.4218	Vietnam	16.3748
Czech Rep.	16.4310	Kyrgyzstan	12.4357	Portugal	22.0417	Yemen	9.4204
D.R. Congo	6.3188	Laos	10.8000	Romania	11.7542	Zambia	18.4321
Denmark	30.1036	Latvia	14.2571	Russia	13.2369	Zimbabwe	26.3670

**Descriptive Statistics - based on most recent data**

Available	128	Mean	15.2105	Min	1.3057	Std. Deviation	6.5317	5 Percentile	6.3289
Missing	0	Median	14.0362	Max	32.0023			95 Percentile	27.3694

## Normalization

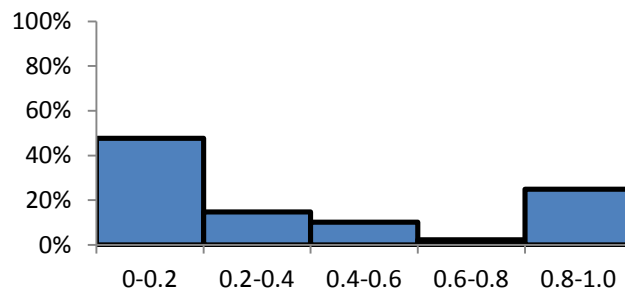
Type *LB (larger is better)* Parameters  $u=11.5475$   $\tau=22.1112$   
 Comments  $u=\text{min of EU-14}$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.0929	Ecuador	0.1564	Lebanon	0.1544	Rwanda	0.0000
Algeria	1.0000	Egypt	0.4693	Lithuania	0.5559	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	1.0000	Senegal	0.5207
Argentina	0.0000	Estonia	0.4045	Madagascar	0.0000	Sierra Leone	0.0027
Armenia	0.2332	Ethiopia	0.1281	Malawi	0.8664	Slovakia	0.4964
Australia	1.0000	Finland	1.0000	Malaysia	0.5751	Slovenia	0.9070
Austria	0.8816	France	1.0000	Mali	0.3552	South Africa	0.9967
Azerbaijan	0.1123	Gabon	0.0000	Mauritania	0.3647	South Korea	0.3689
Bangladesh	0.0000	Gambia	0.6302	Mexico	0.0086	Spain	0.3679
Belarus	0.2769	Georgia	0.0000	Moldova	0.3122	Sri Lanka	0.2334
Belgium	1.0000	Germany	0.0094	Mongolia	1.0000	Sudan	0.0000
Benin	0.3647	Ghana	0.0761	Morocco	0.9946	Sweden	0.8857
Bolivia	0.1686	Greece	1.0000	Mozambique	0.1754	Switzerland	0.0000
Botswana	0.3335	Guatemala	0.0000	Namibia	1.0000	Syria	0.4976
Brazil	0.0191	Guinea	0.0466	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.6193	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0428
Burkina Faso	0.0000	Hondura	0.3836	New Zealand	1.0000	Thailand	0.3672
Burundi	0.2959	Hungary	0.9937	Nicaragua	0.3440	Togo	0.3742
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.8526
Cambodia	0.0000	Indonesia	0.3009	Nigeria	0.0000	Turkey	0.8197
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.0000
Canada	0.2376	Ireland	0.8799	Oman	0.0000	Uganda	0.0228
Chad	0.0000	Israel	1.0000	Pakistan	0.0018	UK	1.0000
Chile	0.4424	Italy	1.0000	Panama	0.0001	Ukraine	0.1651
China	0.0000	Japan	0.0299	Papua N.G.	0.9644	Uruguay	0.5806
Colombia	0.1469	Jordan	0.6683	Paraguay	0.0000	USA	0.0000
Congo	0.0000	Kazakhstan	0.1905	Peru	0.1312	Uzbekistan	0.8948
Cote d'Ivoire	0.3177	Kenya	0.9414	Philippines	0.0738	Venezuela	0.0132
Croatia	1.0000	Kuwait	0.0000	Poland	0.5561	Vietnam	0.4570
Czech Rep.	0.4576	Kyrgyzstan	0.0767	Portugal	0.9934	Yemen	0.0305
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0196	Zambia	0.5941
Denmark	1.0000	Latvia	0.2565	Russia	0.1599	Zimbabwe	0.9407

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3725	Min	0.0000	Std. Deviation	0.3861	5 Percentile	0.0000
Missing	0	Median	0.2471	Max	1.0000			95 Percentile	1.0000



**Indicator: Tertiary education teaching staff****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Pressure**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.**Sources:** UNESCO  
(<http://stats.uis.unesco.org/unesco/ReportFolders/ReportFolders.aspx>)**Period:** 1990-2005**Units:** ratio of students to teaching staff**Most recent data**

Albania	25.6622	Ecuador	-	Lebanon	12.8662	Rwanda	15.1283
Algeria	11.8236	Egypt	29.6708	Lithuania	12.3951	Saudi Arabia	22.4900
Angola	9.7790	El Salvador	15.4639	Macedonia, FYR	17.3146	Senegal	-
Argentina	15.9489	Estonia	9.6783	Madagascar	17.5514	Sierra Leone	7.5467
Armenia	6.2444	Ethiopia	35.8341	Malawi	10.0773	Slovakia	12.5458
Australia	15.0000	Finland	16.2144	Malaysia	18.0892	Slovenia	32.6336
Austria	8.0076	France	15.8019	Mali	19.4396	South Africa	16.5480
Azerbaijan	9.1917	Gabon	12.7744	Mauritania	26.0567	South Korea	18.6788
Bangladesh	14.3073	Gambia	13.7529	Mexico	9.6597	Spain	13.4906
Belarus	11.3113	Georgia	9.0564	Moldova	15.7875	Sri Lanka	-
Belgium	14.7663	Germany	8.2170	Mongolia	18.2689	Sudan	45.5002
Benin	29.4018	Ghana	17.7900	Morocco	18.6925	Sweden	11.3876
Bolivia	19.1253	Greece	23.6348	Mozambique	11.8199	Switzerland	9.1083
Botswana	11.5975	Guatemala	27.7062	Namibia	14.5392	Syria	-
Brazil	14.7731	Guinea	-	Nepal	22.4641	Tajikistan	15.0596
Bulgaria	12.0662	Guinea Bis.	14.9355	Netherlands	11.9470	Tanzania	17.0700
Burkina Faso	-	Hondura	17.5658	New Zealand	13.7047	Thailand	33.6483
Burundi	15.2366	Hungary	16.4070	Nicaragua	15.3296	Togo	39.1354
C. African R.	19.4554	India	26.3855	Niger	16.6253	Tunisia	20.3613
Cambodia	17.4304	Indonesia	14.7474	Nigeria	26.9839	Turkey	25.2133
Cameroon	25.6848	Iran	20.3622	Norway	11.8637	UAE	21.5126
Canada	9.0814	Ireland	14.2487	Oman	31.4802	Uganda	14.5789
Chad	14.4279	Israel	-	Pakistan	-	UK	22.6428
Chile	-	Italy	21.9383	Panama	13.9272	Ukraine	12.9260
China	17.8614	Japan	8.1304	Papua N.G.	9.3185	Uruguay	8.2175
Colombia	11.8757	Jordan	26.7936	Paraguay	-	USA	14.2308
Congo	13.9329	Kazakhstan	16.0383	Peru	14.8269	Uzbekistan	16.0485
Cote d'Ivoire	-	Kenya	-	Philippines	22.0698	Venezuela	12.4670
Croatia	14.9683	Kuwait	14.9977	Poland	21.1023	Vietnam	20.6456
Czech Rep.	12.9888	Kyrgyzstan	15.2128	Portugal	11.0767	Yemen	33.1794
D.R. Congo	15.9295	Laos	15.6728	Romania	21.7398	Zambia	-
Denmark	-	Latvia	22.1910	Russia	13.8722	Zimbabwe	-

**Descriptive Statistics - based on most recent data**

Available	113	Mean	17.2742	Min	6.2444	Std. Deviation	7.0749	5 Percentile	8.7208
Missing	15	Median	15.3296	Max	45.5002			95 Percentile	31.9416

## Normalization

Type *SB (smaller is better)* Parameters *U=14.8749* *T=45.5002*  
 Comments *T=average of EU-14* *U=max*

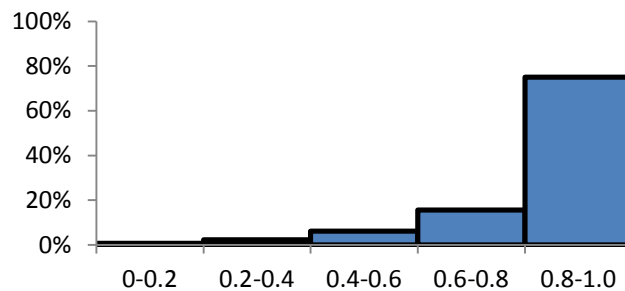
## Smoothed data

Albania	0.6478	Ecuador	1.0000**	Lebanon	1.0000	Rwanda	0.9917
Algeria	1.0000	Egypt	0.5169	Lithuania	1.0000	Saudi Arabia	0.7513
Angola	1.0000	El Salvador	0.9798	Macedonia, FYR	0.9203	Senegal	0.9121**
Argentina	0.9820	Estonia	1.0000	Madagascar	0.8518	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.3156	Malawi	1.0000	Slovakia	1.0000
Australia	0.9959	Finland	0.9563	Malaysia	0.8892	Slovenia	0.4227
Austria	1.0000	France	0.9697	Mali	0.8510	South Africa	0.9454
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	0.6349	South Korea	0.8758
Bangladesh	0.9694	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	0.9702	Sri Lanka	0.8116**
Belgium	0.9809	Germany	1.0000	Mongolia	0.8892	Sudan	0.0000
Benin	0.5257	Ghana	0.8550	Morocco	0.8870	Sweden	1.0000
Bolivia	0.8213	Greece	0.7145	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.5810	Namibia	1.0000	Syria	0.5810**
Brazil	0.9948	Guinea	0.8969**	Nepal	0.7522	Tajikistan	0.9940
Bulgaria	1.0000	Guinea Bis.	0.9980	Netherlands	1.0000	Tanzania	0.9283
Burkina Faso	0.9313**	Hondura	0.9121	New Zealand	0.9954	Thailand	0.3779
Burundi	0.9815	Hungary	0.9629	Nicaragua	0.9852	Togo	0.2078
C. African R.	0.8504	India	0.6241	Niger	0.9428	Tunisia	0.8209
Cambodia	0.9166	Indonesia	1.0000	Nigeria	0.6046	Turkey	0.6945
Cameroon	0.6508	Iran	0.8028	Norway	1.0000	UAE	0.7834
Canada	1.0000	Ireland	0.9978	Oman	0.4578	Uganda	1.0000
Chad	1.0000	Israel	0.9809**	Pakistan	0.6508**	UK	0.7615
Chile	0.9454**	Italy	0.7651	Panama	1.0000	Ukraine	1.0000
China	0.9025	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.6109	Paraguay	0.5810**	USA	1.0000
Congo	1.0000	Kazakhstan	0.9623	Peru	1.0000	Uzbekistan	0.9617
Cote d'Ivoire	0.6349**	Kenya	0.8028**	Philippines	0.6985	Venezuela	1.0000
Croatia	0.9970	Kuwait	0.9960	Poland	0.7967	Vietnam	0.8116
Czech Rep.	1.0000	Kyrgyzstan	0.8944	Portugal	1.0000	Yemen	0.4023
D.R. Congo	0.9656	Laos	0.9639	Romania	0.7758	Zambia	0.9430**
Denmark	0.9854**	Latvia	0.7611	Russia	1.0000	Zimbabwe	0.6508**

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8692	Min	0.0000	Std. Deviation	0.1906	5 Percentile	0.4785
Missing	0	Median	0.9647	Max	1.0000			95 Percentile	1.0000



**Indicator:** **Threatened amphibians****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all amphibians that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2005**Units:** percentage of all amphibian species**Most recent data**

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	3.0864	Estonia	0.0000	Madagascar	0.9217	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.0000
Australia	15.3509	Finland	0.0000	Malaysia	0.0000	Slovenia	5.5556
Austria	0.0000	France	5.1282	Mali	0.0000	South Africa	7.6923
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	1.1173	Spain	9.3750
Belarus	0.0000	Georgia	6.6667	Moldova	0.0000	Sri Lanka	0.0000
Belgium	0.0000	Germany	0.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	0.0000
Bolivia	0.6173	Greece	4.7619	Mozambique	0.0000	Switzerland	0.0000
Botswana	0.0000	Guatemala	0.0000	Namibia	3.2258	Syria	0.0000
Brazil	0.8811	Guinea	3.0303	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0000	Hondura	0.0000	New Zealand	16.6667	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	1.2987	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	13.0435
Cameroon	0.5848	Iran	8.6957	Norway	0.0000	UAE	0.0000
Canada	2.3810	Ireland	0.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.0000	Pakistan	0.0000	UK	0.0000
Chile	6.1224	Italy	9.0909	Panama	0.0000	Ukraine	0.0000
China	0.2941	Japan	15.6250	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	8.8339
Congo	0.0000	Kazakhstan	6.6667	Peru	0.2841	Uzbekistan	0.0000
Cote d'Ivoire	2.6316	Kenya	0.0000	Philippines	20.7207	Venezuela	0.0000
Croatia	10.0000	Kuwait	0.0000	Poland	0.0000	Vietnam	0.7634
Czech Rep.	0.0000	Kyrgyzstan	0.0000	Portugal	5.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	0.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.5321	Min	0.0000	Std. Deviation	3.7844	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	20.7207			95 Percentile	9.2756

## Normalization

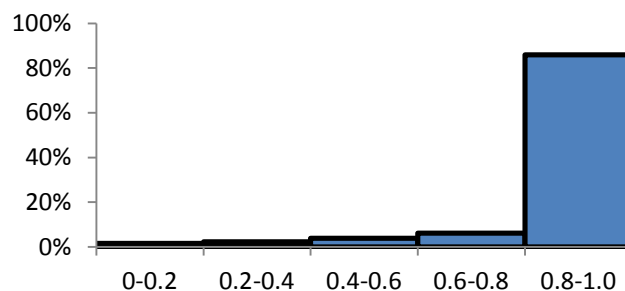
Type *SB (smaller is better)* Parameters *U=0.0000* *T=20.7207*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	0.8510	Estonia	1.0000	Madagascar	0.9555	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	0.2592	Finland	1.0000	Malaysia	1.0000	Slovenia	0.7319
Austria	1.0000	France	0.7525	Mali	1.0000	South Africa	0.6288
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	0.9461	Spain	0.5476
Belarus	1.0000	Georgia	0.6783	Moldova	1.0000	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	0.9702	Greece	0.7702	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	0.8443	Syria	1.0000
Brazil	0.9575	Guinea	0.8538	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	0.1957	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.9373	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.3705
Cameroon	0.9718	Iran	0.5803	Norway	1.0000	UAE	1.0000
Canada	0.8851	Ireland	1.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	1.0000	Pakistan	1.0000	UK	1.0000
Chile	0.7045	Italy	0.5613	Panama	1.0000	Ukraine	1.0000
China	0.9858	Japan	0.2459	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	0.5737
Congo	1.0000	Kazakhstan	0.6783	Peru	0.9863	Uzbekistan	1.0000
Cote d'Ivoire	0.8730	Kenya	1.0000	Philippines	0.0000	Venezuela	1.0000
Croatia	0.5174	Kuwait	1.0000	Poland	1.0000	Vietnam	0.9632
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.7587	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9261	Min	0.0000	Std. Deviation	0.1826	5 Percentile	0.5524
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator:** **Threatened birds****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all bird species that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2005**Units:** percentage of all bird species**Most recent data**

Albania	1.5544	Ecuador	9.6875	Lebanon	6.0345	Rwanda	4.5000
Algeria	3.2787	Egypt	5.6911	Lithuania	1.9900	Saudi Arabia	12.0000
Angola	5.6604	El Salvador	0.0000	Macedonia, FYR	1.5075	Senegal	2.2857
Argentina	10.7735	Estonia	1.4706	Madagascar	15.6977	Sierra Leone	5.8140
Armenia	1.6949	Ethiopia	6.1069	Malawi	5.0228	Slovakia	2.0101
Australia	7.4447	Finland	1.2346	Malaysia	14.5669	Slovenia	0.4975
Austria	1.3043	France	1.7668	Mali	2.0942	South Africa	9.2105
Azerbaijan	3.4934	Gabon	3.2051	Mauritania	1.1628	South Korea	18.1159
Bangladesh	13.8554	Gambia	1.2987	Mexico	8.8636	Spain	2.4911
Belarus	1.5464	Georgia	1.4423	Moldova	2.8571	Sri Lanka	11.1111
Belgium	1.0471	Germany	2.0243	Mongolia	5.8394	Sudan	2.1429
Benin	1.7857	Ghana	3.8835	Morocco	4.3689	Sweden	0.7722
Bolivia	5.5556	Greece	2.7451	Mozambique	11.1111	Switzerland	1.0050
Botswana	3.8043	Guatemala	2.7149	Namibia	5.4726	Syria	5.5172
Brazil	16.6181	Guinea	9.1743	Nepal	9.1241	Tajikistan	3.3333
Bulgaria	4.0323	Guinea Bis.	0.0000	Netherlands	2.0833	Tanzania	14.4105
Burkina Faso	1.4493	Hondura	2.1552	New Zealand	33.1579	Thailand	12.9825
Burundi	4.8276	Hungary	3.8462	Nicaragua	2.3256	Togo	0.0000
C. African R.	1.7857	India	15.7205	Niger	2.4000	Tunisia	3.0303
Cambodia	10.3825	Indonesia	12.2713	Nigeria	3.1469	Turkey	3.9568
Cameroon	9.0909	Iran	4.4369	Norway	0.8299	UAE	23.5294
Canada	2.5806	Ireland	0.6993	Oman	9.1743	Uganda	5.3498
Chad	3.5461	Israel	7.4074	Pakistan	7.1730	UK	0.8734
Chile	14.0127	Italy	2.0000	Panama	5.2980	Ukraine	3.2653
China	11.9741	Japan	16.1905	Papua N.G.	7.7295	Uruguay	9.5652
Colombia	11.0169	Jordan	6.8376	Paraguay	11.1588	USA	10.8268
Congo	2.3077	Kazakhstan	3.9578	Peru	10.9353	Uzbekistan	4.4335
Cote d'Ivoire	4.7619	Kenya	6.9767	Philippines	16.5842	Venezuela	4.3876
Croatia	1.7857	Kuwait	20.0000	Poland	1.7167	Vietnam	14.1221
Czech Rep.	0.9756	Kyrgyzstan	2.3810	Portugal	2.9787	Yemen	12.9032
D.R. Congo	8.1159	Laos	9.4340	Romania	3.1128	Zambia	4.3651
Denmark	0.5102	Latvia	1.3889	Russia	7.1970	Zimbabwe	4.3668

**Descriptive Statistics - based on most recent data**

Available	128	Mean	6.0673	Min	0.0000	Std. Deviation	5.4836	5 Percentile	0.7924
Missing	0	Median	4.3659	Max	33.1579			95 Percentile	16.0260

## Normalization

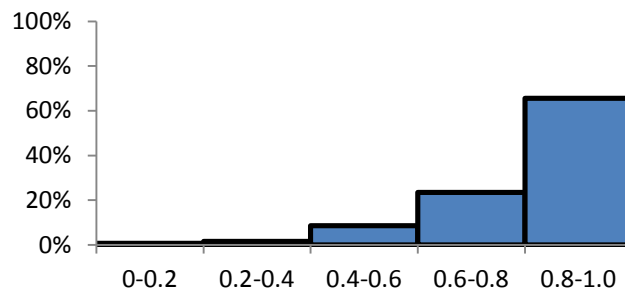
Type *SB (smaller is better)* Parameters *U=0.0000* *T=33.1579*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.9531	Ecuador	0.7078	Lebanon	0.8180	Rwanda	0.8643
Algeria	0.9011	Egypt	0.8284	Lithuania	0.9400	Saudi Arabia	0.6381
Angola	0.8293	El Salvador	1.0000	Macedonia, FYR	0.9545	Senegal	0.9311
Argentina	0.6751	Estonia	0.9556	Madagascar	0.5266	Sierra Leone	0.8247
Armenia	0.9489	Ethiopia	0.8158	Malawi	0.8485	Slovakia	0.9394
Australia	0.7755	Finland	0.9628	Malaysia	0.5607	Slovenia	0.9850
Austria	0.9607	France	0.9467	Mali	0.9368	South Africa	0.7222
Azerbaijan	0.8946	Gabon	0.9033	Mauritania	0.9649	South Korea	0.4536
Bangladesh	0.5821	Gambia	0.9608	Mexico	0.7327	Spain	0.9249
Belarus	0.9534	Georgia	0.9565	Moldova	0.9138	Sri Lanka	0.6649
Belgium	0.9684	Germany	0.9389	Mongolia	0.8239	Sudan	0.9354
Benin	0.9461	Ghana	0.8829	Morocco	0.8682	Sweden	0.9767
Bolivia	0.8325	Greece	0.9172	Mozambique	0.6649	Switzerland	0.9697
Botswana	0.8853	Guatemala	0.9181	Namibia	0.8350	Syria	0.8336
Brazil	0.4988	Guinea	0.7233	Nepal	0.7248	Tajikistan	0.8995
Bulgaria	0.8784	Guinea Bis.	1.0000	Netherlands	0.9372	Tanzania	0.5654
Burkina Faso	0.9563	Hondura	0.9350	New Zealand	0.0000	Thailand	0.6085
Burundi	0.8544	Hungary	0.8840	Nicaragua	0.9299	Togo	1.0000
C. African R.	0.9461	India	0.5259	Niger	0.9276	Tunisia	0.9086
Cambodia	0.6869	Indonesia	0.6299	Nigeria	0.9051	Turkey	0.8807
Cameroon	0.7258	Iran	0.8662	Norway	0.9750	UAE	0.2904
Canada	0.9222	Ireland	0.9789	Oman	0.7233	Uganda	0.8387
Chad	0.8931	Israel	0.7766	Pakistan	0.7837	UK	0.9737
Chile	0.5774	Italy	0.9397	Panama	0.8402	Ukraine	0.9015
China	0.6389	Japan	0.5117	Papua N.G.	0.7669	Uruguay	0.7115
Colombia	0.6677	Jordan	0.7938	Paraguay	0.6635	USA	0.6735
Congo	0.9304	Kazakhstan	0.8806	Peru	0.6702	Uzbekistan	0.8663
Cote d'Ivoire	0.8564	Kenya	0.7896	Philippines	0.4998	Venezuela	0.8677
Croatia	0.9461	Kuwait	0.3968	Poland	0.9482	Vietnam	0.5741
Czech Rep.	0.9706	Kyrgyzstan	0.9282	Portugal	0.9102	Yemen	0.6109
D.R. Congo	0.7552	Laos	0.7155	Romania	0.9061	Zambia	0.8684
Denmark	0.9846	Latvia	0.9581	Russia	0.7829	Zimbabwe	0.8683

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8170	Min	0.0000	Std. Deviation	0.1654	5 Percentile	0.5167
Missing	0	Median	0.8683	Max	1.0000			95 Percentile	0.9761





**Indicator:** Threatened fishes**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all fishes that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2005**Units:** percentage of all fish species**Most recent data**

Albania	6.4220	Ecuador	1.2195	Lebanon	0.0000	Rwanda	0.0000
Algeria	1.0000	Egypt	0.0000	Lithuania	2.5641	Saudi Arabia	0.5988
Angola	0.0000	El Salvador	1.7699	Macedonia, FYR	23.5294	Senegal	0.6667
Argentina	1.9608	Estonia	0.0000	Madagascar	3.5897	Sierra Leone	0.0000
Armenia	5.8824	Ethiopia	0.0000	Malawi	0.0000	Slovakia	17.3913
Australia	2.9550	Finland	0.0000	Malaysia	5.4348	Slovenia	7.7670
Austria	14.2857	France	2.9586	Mali	50.0000	South Africa	4.6105
Azerbaijan	15.6250	Gabon	0.9615	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.9804	Mexico	13.0564	Spain	5.8824
Belarus	0.0000	Georgia	12.2449	Moldova	18.3673	Sri Lanka	2.9333
Belgium	0.0000	Germany	6.3158	Mongolia	100.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.7353	Sweden	0.0000
Bolivia	0.0000	Greece	13.1579	Mozambique	0.7634	Switzerland	7.1429
Botswana	0.0000	Guatemala	1.4493	Namibia	2.8037	Syria	0.0000
Brazil	3.6093	Guinea	0.0000	Nepal	0.0000	Tajikistan	50.0000
Bulgaria	11.2360	Guinea Bis.	0.9091	Netherlands	2.9851	Tanzania	5.1360
Burkina Faso	0.0000	Hondura	0.4444	New Zealand	3.5088	Thailand	7.1429
Burundi	0.0000	Hungary	17.0213	Nicaragua	0.4149	Togo	0.0000
C. African R.	0.0000	India	0.1565	Niger	0.0000	Tunisia	0.0000
Cambodia	5.4688	Indonesia	16.6667	Nigeria	2.1053	Turkey	13.5802
Cameroon	19.5652	Iran	6.2500	Norway	0.0000	UAE	2.4390
Canada	12.5000	Ireland	0.0000	Oman	1.2195	Uganda	55.1020
Chad	0.0000	Israel	0.5618	Pakistan	2.1898	UK	0.7026
Chile	2.4540	Italy	5.3571	Panama	1.8182	Ukraine	12.5000
China	8.1013	Japan	1.2910	Papua N.G.	1.5152	Uruguay	3.0303
Colombia	2.5157	Jordan	0.0000	Paraguay	0.0000	USA	11.8074
Congo	1.2658	Kazakhstan	18.4211	Peru	0.6024	Uzbekistan	22.2222
Cote d'Ivoire	0.0000	Kenya	5.7325	Philippines	3.2563	Venezuela	2.8455
Croatia	19.6429	Kuwait	0.0000	Poland	1.9231	Vietnam	3.5019
Czech Rep.	15.9091	Kyrgyzstan	0.0000	Portugal	5.6962	Yemen	0.0000
D.R. Congo	0.9901	Laos	12.2449	Romania	11.6279	Zambia	0.0000
Denmark	0.0000	Latvia	2.6316	Russia	6.5327	Zimbabwe	0.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	6.1201	Min	0.0000	Std. Deviation	12.4557	5 Percentile	0.0000
Missing	0	Median	1.8706	Max	100.0000			95 Percentile	19.6157

## Normalization

Type SB (smaller is better)

Parameters U=0.0000

T=55.1020

Comments T=minimum possible

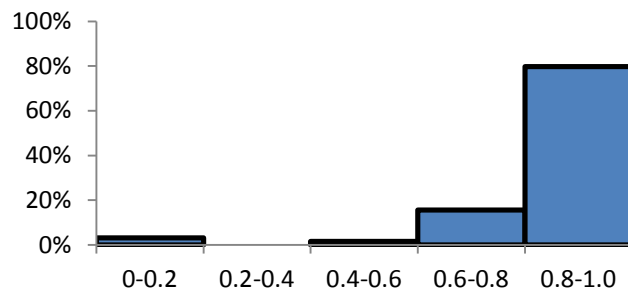
U=max (excluding 1% outliers)

## Smoothed data

Albania	0.8835	Ecuador	0.9779	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.9819	Egypt	1.0000	Lithuania	0.9535	Saudi Arabia	0.9891
Angola	1.0000	El Salvador	0.9679	Macedonia, FYR	0.5730	Senegal	0.9879
Argentina	0.9644	Estonia	1.0000	Madagascar	0.9349	Sierra Leone	1.0000
Armenia	0.8932	Ethiopia	1.0000	Malawi	1.0000	Slovakia	0.6844
Australia	0.9464	Finland	1.0000	Malaysia	0.9014	Slovenia	0.8590
Austria	0.7407	France	0.9463	Mali	0.0926	South Africa	0.9163
Azerbaijan	0.7164	Gabon	0.9825	Mauritania	1.0000	South Korea	1.0000
Bangladesh	1.0000	Gambia	0.9822	Mexico	0.7631	Spain	0.8932
Belarus	1.0000	Georgia	0.7778	Moldova	0.6667	Sri Lanka	0.9468
Belgium	1.0000	Germany	0.8854	Mongolia	0.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	0.9867	Sweden	1.0000
Bolivia	1.0000	Greece	0.7612	Mozambique	0.9861	Switzerland	0.8704
Botswana	1.0000	Guatemala	0.9737	Namibia	0.9491	Syria	1.0000
Brazil	0.9345	Guinea	1.0000	Nepal	1.0000	Tajikistan	0.0926
Bulgaria	0.7961	Guinea Bis.	0.9835	Netherlands	0.9458	Tanzania	0.9068
Burkina Faso	1.0000	Hondura	0.9919	New Zealand	0.9363	Thailand	0.8704
Burundi	1.0000	Hungary	0.6911	Nicaragua	0.9925	Togo	1.0000
C. African R.	1.0000	India	0.9972	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9008	Indonesia	0.6975	Nigeria	0.9618	Turkey	0.7535
Cameroon	0.6449	Iran	0.8866	Norway	1.0000	UAE	0.9557
Canada	0.7731	Ireland	1.0000	Oman	0.9779	Uganda	0.0000
Chad	1.0000	Israel	0.9898	Pakistan	0.9603	UK	0.9872
Chile	0.9555	Italy	0.9028	Panama	0.9670	Ukraine	0.7731
China	0.8530	Japan	0.9766	Papua N.G.	0.9725	Uruguay	0.9450
Colombia	0.9543	Jordan	1.0000	Paraguay	1.0000	USA	0.7857
Congo	0.9770	Kazakhstan	0.6657	Peru	0.9891	Uzbekistan	0.5967
Cote d'Ivoire	1.0000	Kenya	0.8960	Philippines	0.9409	Venezuela	0.9484
Croatia	0.6435	Kuwait	1.0000	Poland	0.9651	Vietnam	0.9364
Czech Rep.	0.7113	Kyrgyzstan	1.0000	Portugal	0.8966	Yemen	1.0000
D.R. Congo	0.9820	Laos	0.7778	Romania	0.7890	Zambia	1.0000
Denmark	1.0000	Latvia	0.9522	Russia	0.8814	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8953	Min	0.0000	Std. Deviation	0.1855	5 Percentile	0.6440
Missing	0	Median	0.9661	Max	1.0000			95 Percentile	1.0000



**Indicator:** Threatened mammals**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all mammal species that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2005**Units:** percentage of all mammal species**Most recent data**

Albania	4.4118	Ecuador	10.9272	Lebanon	8.7719	Rwanda	5.9603
Algeria	14.1304	Egypt	13.2653	Lithuania	7.3529	Saudi Arabia	10.3896
Angola	6.8841	El Salvador	1.4815	Macedonia, FYR	14.1026	Senegal	6.2500
Argentina	10.6250	Estonia	6.1538	Madagascar	35.4610	Sierra Leone	8.1633
Armenia	13.0952	Ethiopia	12.6354	Malawi	4.1026	Slovakia	10.5882
Australia	25.0000	Finland	8.3333	Malaysia	16.6667	Slovenia	12.0000
Austria	8.4337	France	19.3548	Mali	9.4891	South Africa	17.0040
Azerbaijan	13.1313	Gabon	7.8947	Mauritania	16.3934	South Korea	26.5306
Bangladesh	18.4000	Gambia	2.5641	Mexico	14.2566	Spain	29.2683
Belarus	9.4595	Georgia	12.1495	Moldova	8.8235	Sri Lanka	25.0000
Belgium	18.9655	Germany	14.4737	Mongolia	10.5263	Sudan	8.6142
Benin	4.2553	Ghana	6.3063	Morocco	15.2381	Sweden	11.6667
Bolivia	7.5949	Greece	13.6842	Mozambique	7.8212	Switzerland	6.6667
Botswana	3.6585	Guatemala	2.4000	Namibia	6.0000	Syria	6.3492
Brazil	20.5584	Guinea	6.3158	Nepal	17.1271	Tajikistan	10.7143
Bulgaria	17.2840	Guinea Bis.	2.7778	Netherlands	18.1818	Tanzania	13.2911
Burkina Faso	4.7619	Hondura	5.7803	New Zealand	0.0000	Thailand	13.9623
Burundi	5.6075	Hungary	10.8434	Nicaragua	3.0000	Togo	4.5918
C. African R.	6.6986	India	22.5641	Niger	8.3969	Tunisia	14.1026
Cambodia	19.5122	Indonesia	28.5437	Nigeria	9.8540	Turkey	14.6552
Cameroon	9.7800	Iran	15.7143	Norway	18.5185	UAE	12.0000
Canada	7.2539	Ireland	20.0000	Oman	16.0714	Uganda	5.7971
Chad	12.6866	Israel	12.0690	Pakistan	10.1064	UK	24.0000
Chile	23.0769	Italy	15.5556	Panama	9.1743	Ukraine	14.8148
China	20.0508	Japan	19.6809	Papua N.G.	27.1028	Uruguay	7.4074
Colombia	11.4206	Jordan	14.0845	Paraguay	3.2787	USA	8.6449
Congo	7.5000	Kazakhstan	8.9888	Peru	10.6522	Uzbekistan	9.2784
Cote d'Ivoire	8.2609	Kenya	14.2061	Philippines	32.6797	Venezuela	8.0495
Croatia	11.8421	Kuwait	4.7619	Poland	17.8571	Vietnam	18.7793
Czech Rep.	9.8765	Kyrgyzstan	8.4337	Portugal	26.9841	Yemen	7.5758
D.R. Congo	8.8889	Laos	18.0233	Romania	20.2381	Zambia	4.7210
Denmark	11.6279	Latvia	4.8193	Russia	16.7286	Zimbabwe	4.0741

**Descriptive Statistics - based on most recent data**

Available	128	Mean	12.1983	Min	0.0000	Std. Deviation	6.8614	5 Percentile	3.4116
Missing	0	Median	10.6832	Max	35.4610			95 Percentile	25.9949

## Normalization

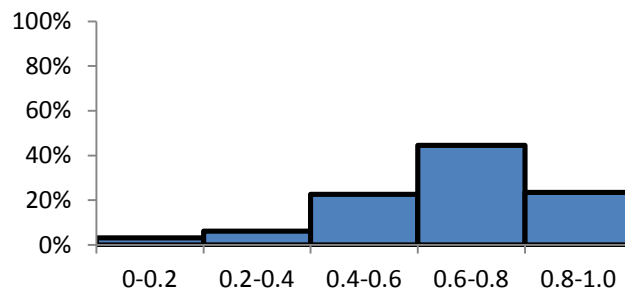
Type *SB (smaller is better)* Parameters *U=0.0000* *T=35.4610*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.8756	Ecuador	0.6919	Lebanon	0.7526	Rwanda	0.8319
Algeria	0.6015	Egypt	0.6259	Lithuania	0.7926	Saudi Arabia	0.7070
Angola	0.8059	El Salvador	0.9582	Macedonia, FYR	0.6023	Senegal	0.8237
Argentina	0.7004	Estonia	0.8265	Madagascar	0.0000	Sierra Leone	0.7698
Armenia	0.6307	Ethiopia	0.6437	Malawi	0.8843	Slovakia	0.7014
Australia	0.2950	Finland	0.7650	Malaysia	0.5300	Slovenia	0.6616
Austria	0.7622	France	0.4542	Mali	0.7324	South Africa	0.5205
Azerbaijan	0.6297	Gabon	0.7774	Mauritania	0.5377	South Korea	0.2518
Bangladesh	0.4811	Gambia	0.9277	Mexico	0.5980	Spain	0.1746
Belarus	0.7332	Georgia	0.6574	Moldova	0.7512	Sri Lanka	0.2950
Belgium	0.4652	Germany	0.5918	Mongolia	0.7032	Sudan	0.7571
Benin	0.8800	Ghana	0.8222	Morocco	0.5703	Sweden	0.6710
Bolivia	0.7858	Greece	0.6141	Mozambique	0.7794	Switzerland	0.8120
Botswana	0.8968	Guatemala	0.9323	Namibia	0.8308	Syria	0.8210
Brazil	0.4203	Guinea	0.8219	Nepal	0.5170	Tajikistan	0.6979
Bulgaria	0.5126	Guinea Bis.	0.9217	Netherlands	0.4873	Tanzania	0.6252
Burkina Faso	0.8657	Hondura	0.8370	New Zealand	1.0000	Thailand	0.6063
Burundi	0.8419	Hungary	0.6942	Nicaragua	0.9154	Togo	0.8705
C. African R.	0.8111	India	0.3637	Niger	0.7632	Tunisia	0.6023
Cambodia	0.4498	Indonesia	0.1951	Nigeria	0.7221	Turkey	0.5867
Cameroon	0.7242	Iran	0.5569	Norway	0.4778	UAE	0.6616
Canada	0.7954	Ireland	0.4360	Oman	0.5468	Uganda	0.8365
Chad	0.6422	Israel	0.6597	Pakistan	0.7150	UK	0.3232
Chile	0.3492	Italy	0.5613	Panama	0.7413	Ukraine	0.5822
China	0.4346	Japan	0.4450	Papua N.G.	0.2357	Uruguay	0.7911
Colombia	0.6779	Jordan	0.6028	Paraguay	0.9075	USA	0.7562
Congo	0.7885	Kazakhstan	0.7465	Peru	0.6996	Uzbekistan	0.7384
Cote d'Ivoire	0.7670	Kenya	0.5994	Philippines	0.0784	Venezuela	0.7730
Croatia	0.6661	Kuwait	0.8657	Poland	0.4964	Vietnam	0.4704
Czech Rep.	0.7215	Kyrgyzstan	0.7622	Portugal	0.2390	Yemen	0.7864
D.R. Congo	0.7493	Laos	0.4917	Romania	0.4293	Zambia	0.8669
Denmark	0.6721	Latvia	0.8641	Russia	0.5283	Zimbabwe	0.8851

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6560	Min	0.0000	Std. Deviation	0.1935	5 Percentile	0.2669
Missing	0	Median	0.6987	Max	1.0000			95 Percentile	0.9038



**Indicator:** Threatened plants**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all plants that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2005**Units:** percentage of all plant species**Most recent data**

Albania	0.0000	Ecuador	1.0175	Lebanon	0.0000	Rwanda	0.1311
Algeria	0.0632	Egypt	0.0963	Lithuania	0.0000	Saudi Arabia	0.1479
Angola	0.3664	El Salvador	0.7901	Macedonia, FYR	0.0000	Senegal	0.3356
Argentina	0.4481	Estonia	0.0000	Madagascar	1.7044	Sierra Leone	2.0574
Armenia	0.0281	Ethiopia	0.3332	Malawi	0.3453	Slovakia	0.0640
Australia	0.2430	Finland	0.0907	Malaysia	4.3935	Slovenia	0.0000
Austria	0.0968	France	0.0432	Mali	0.3446	South Africa	0.1921
Azerbaijan	0.0000	Gabon	1.0675	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.2400	Gambia	0.3080	Mexico	0.8477	Spain	0.2772
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000	Sri Lanka	8.4490
Belgium	0.0000	Germany	0.4474	Mongolia	0.0000	Sudan	0.5419
Benin	0.4400	Ghana	3.0872	Morocco	0.0544	Sweden	0.1714
Bolivia	0.4031	Greece	0.0401	Mozambique	0.6325	Switzerland	0.0660
Botswana	0.0000	Guatemala	0.8870	Namibia	0.1575	Syria	0.0000
Brazil	0.6778	Guinea	0.7000	Nepal	0.0860	Tajikistan	0.0400
Bulgaria	0.0000	Guinea Bis.	0.4000	Netherlands	0.0000	Tanzania	2.3481
Burkina Faso	0.1818	Hondura	1.9014	New Zealand	0.8816	Thailand	0.6710
Burundi	0.0800	Hungary	0.0452	Nicaragua	0.8497	Togo	0.2917
C. African R.	0.2776	India	1.3073	Niger	0.1370	Tunisia	0.0000
Cambodia	0.0000*	Indonesia	1.3072	Nigeria	2.5239	Turkey	0.0347
Cameroon	1.8765	Iran	0.0125	Norway	0.1166	UAE	0.0000*
Canada	0.0306	Ireland	0.1053	Oman	0.4983	Uganda	0.6735
Chad	0.1250	Israel	0.0000	Pakistan	0.0404	UK	0.8010
Chile	0.7570	Italy	0.0536	Panama	1.9365	Ukraine	0.0196
China	0.5217	Japan	0.1977	Papua N.G.	1.2301	Uruguay	0.0439
Colombia	0.4159	Jordan	0.0000	Paraguay	0.1274	USA	0.8679
Congo	0.5500	Kazakhstan	0.0167	Peru	1.5691	Uzbekistan	0.0208
Cote d'Ivoire	2.7596	Kenya	1.5063	Philippines	2.1610	Venezuela	0.3179
Croatia	0.0000	Kuwait	0.0000	Poland	0.1633	Vietnam	1.2000
Czech Rep.	0.2105	Kyrgyzstan	0.0222	Portugal	0.2970	Yemen	3.1515
D.R. Congo	0.4997	Laos	0.2172	Romania	0.0294	Zambia	0.1685
Denmark	0.2069	Latvia	0.0000	Russia	0.0614	Zimbabwe	0.3153

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.5632	Min	0.0000	Std. Deviation	1.0394	5 Percentile	0.0000
Missing	0	Median	0.1870	Max	8.4490			95 Percentile	2.2826

## Normalization

Type *SB (smaller is better)* Parameters *U=0.0000* *T=8.4490*  
 Comments *T=minimum possible* *U=max*

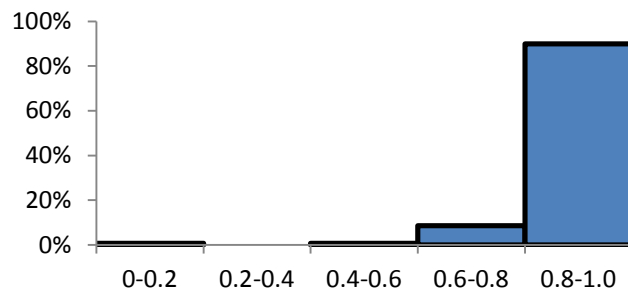
## Smoothed data

Albania	1.0000	Ecuador	0.8796	Lebanon	1.0000	Rwanda	0.9845
Algeria	0.9925	Egypt	0.9886	Lithuania	1.0000	Saudi Arabia	0.9825
Angola	0.9566	El Salvador	0.9065	Macedonia, FYR	1.0000	Senegal	0.9603
Argentina	0.9470	Estonia	1.0000	Madagascar	0.7983	Sierra Leone	0.7565
Armenia	0.9967	Ethiopia	0.9606	Malawi	0.9591	Slovakia	0.9924
Australia	0.9712	Finland	0.9893	Malaysia	0.4800	Slovenia	1.0000
Austria	0.9885	France	0.9949	Mali	0.9592	South Africa	0.9773
Azerbaijan	1.0000	Gabon	0.8737	Mauritania	1.0000	South Korea	1.0000
Bangladesh	0.9716	Gambia	0.9635	Mexico	0.8997	Spain	0.9672
Belarus	1.0000	Georgia	1.0000*	Moldova	1.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	0.9470	Mongolia	1.0000	Sudan	0.9359
Benin	0.9479	Ghana	0.6346	Morocco	0.9936	Sweden	0.9797
Bolivia	0.9523	Greece	0.9953	Mozambique	0.9251	Switzerland	0.9922
Botswana	1.0000	Guatemala	0.8950	Namibia	0.9814	Syria	1.0000
Brazil	0.9198	Guinea	0.9171	Nepal	0.9898	Tajikistan	0.9953
Bulgaria	1.0000	Guinea Bis.	0.9527	Netherlands	1.0000	Tanzania	0.7221
Burkina Faso	0.9785	Hondura	0.7750	New Zealand	0.8957	Thailand	0.9206
Burundi	0.9905	Hungary	0.9947	Nicaragua	0.8994	Togo	0.9655
C. African R.	0.9671	India	0.8453	Niger	0.9838	Tunisia	1.0000
Cambodia	1.0000*	Indonesia	0.8453	Nigeria	0.7013	Turkey	0.9959
Cameroon	0.7779	Iran	0.9985	Norway	0.9862	UAE	1.0000*
Canada	0.9964	Ireland	0.9875	Oman	0.9410	Uganda	0.9203
Chad	0.9852	Israel	1.0000	Pakistan	0.9952	UK	0.9052
Chile	0.9104	Italy	0.9937	Panama	0.7708	Ukraine	0.9977
China	0.9382	Japan	0.9766	Papua N.G.	0.8544	Uruguay	0.9948
Colombia	0.9508	Jordan	1.0000	Paraguay	0.9849	USA	0.8973
Congo	0.9349	Kazakhstan	0.9980	Peru	0.8143	Uzbekistan	0.9975
Cote d'Ivoire	0.6734	Kenya	0.8217	Philippines	0.7442	Venezuela	0.9624
Croatia	1.0000	Kuwait	1.0000	Poland	0.9807	Vietnam	0.8580
Czech Rep.	0.9751	Kyrgyzstan	0.9974	Portugal	0.9648	Yemen	0.6270
D.R. Congo	0.9409	Laos	0.9743	Romania	0.9965	Zambia	0.9801
Denmark	0.9755	Latvia	1.0000	Russia	0.9927	Zimbabwe	0.9627

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9333	Min	0.0000	Std. Deviation	0.1230	5 Percentile	0.7298
Missing	0	Median	0.9779	Max	1.0000			95 Percentile	1.0000



## Indicator: Threatened reptiles

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Biodiversity

**Tertiary indicator:** Pressure

**Explanation:** Includes all reptiles that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.

**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)

**Period:** 1990-2005

**Units:** percentage of all reptile species

### Most recent data

Albania	10.8108	Ecuador	2.4096	Lebanon	2.2727	Rwanda	0.0000
Algeria	2.0619	Egypt	5.5556	Lithuania	0.0000	Saudi Arabia	2.0202
Angola	1.7621	El Salvador	3.7736	Macedonia, FYR	6.8966	Senegal	6.5934
Argentina	1.5015	Estonia	0.0000	Madagascar	4.7244	Sierra Leone	4.4776
Armenia	9.4340	Ethiopia	0.4808	Malawi	0.0000	Slovakia	7.1429
Australia	4.3379	Finland	0.0000	Malaysia	5.5409	Slovenia	0.0000
Austria	0.0000	France	6.5217	Mali	0.9434	South Africa	5.2198
Azerbaijan	8.1967	Gabon	0.7692	Mauritania	2.7778	South Korea	0.0000
Bangladesh	17.8571	Gambia	2.0000	Mexico	2.1505	Spain	10.4478
Belarus	0.0000	Georgia	11.4754	Moldova	6.6667	Sri Lanka	4.4199
Belgium	0.0000	Germany	0.0000	Mongolia	0.0000	Sudan	1.2422
Benin	1.0309	Ghana	1.5267	Morocco	1.9417	Sweden	0.0000
Bolivia	0.7782	Greece	9.5238	Mozambique	2.5641	Switzerland	0.0000
Botswana	0.0000	Guatemala	3.3755	Namibia	1.3953	Syria	3.7037
Brazil	3.3951	Guinea	1.0638	Nepal	4.2017	Tajikistan	1.9608
Bulgaria	6.0606	Guinea Bis.	2.1739	Netherlands	0.0000	Tanzania	1.4925
Burkina Faso	2.2727	Hondura	2.8169	New Zealand	20.7547	Thailand	5.3254
Burundi	0.0000	Hungary	5.5556	Nicaragua	3.9106	Togo	1.8692
C. African R.	0.7634	India	4.7985	Niger	0.0000	Tunisia	4.2857
Cambodia	8.7719	Indonesia	3.7584	Nigeria	1.2987	Turkey	9.0226
Cameroon	0.4762	Iran	3.6530	Norway	0.0000	UAE	2.7778
Canada	5.1282	Ireland	0.0000	Oman	6.2500	Uganda	0.0000
Chad	1.9231	Israel	4.0404	Pakistan	4.7619	UK	0.0000
Chile	0.0000	Italy	7.2727	Panama	2.8926	Ukraine	8.0000
China	7.3113	Japan	11.9565	Papua N.G.	2.6706	Uruguay	4.3478
Colombia	2.7079	Jordan	1.2346	Paraguay	1.4706	USA	7.5000
Congo	0.6711	Kazakhstan	3.9216	Peru	1.7291	Uzbekistan	3.6364
Cote d'Ivoire	1.6000	Kenya	1.9157	Philippines	2.9412	Venezuela	4.0373
Croatia	2.9412	Kuwait	4.7619	Poland	0.0000	Vietnam	8.5409
Czech Rep.	0.0000	Kyrgyzstan	6.6667	Portugal	0.0000	Yemen	1.9802
D.R. Congo	0.6579	Laos	8.4507	Romania	9.0909	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	6.3830	Zimbabwe	0.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	3.4389	Min	0.0000	Std. Deviation	3.6365	5 Percentile	0.0000
Missing	0	Median	2.3412	Max	20.7547			95 Percentile	9.4924



## Normalization

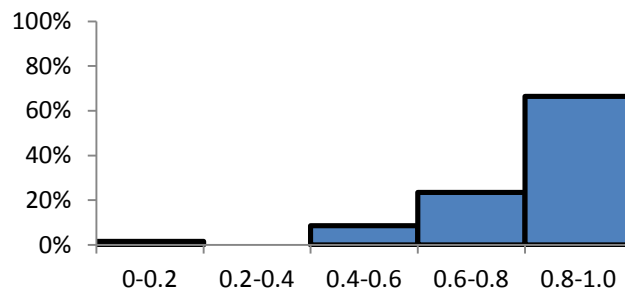
Type *SB (smaller is better)* Parameters *U=0.0000* *T=20.7547*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.4791	Ecuador	0.8839	Lebanon	0.8905	Rwanda	1.0000
Algeria	0.9007	Egypt	0.7323	Lithuania	1.0000	Saudi Arabia	0.9027
Angola	0.9151	El Salvador	0.8182	Macedonia, FYR	0.6677	Senegal	0.6823
Argentina	0.9277	Estonia	1.0000	Madagascar	0.7724	Sierra Leone	0.7843
Armenia	0.5455	Ethiopia	0.9768	Malawi	1.0000	Slovakia	0.6558
Australia	0.7910	Finland	1.0000	Malaysia	0.7330	Slovenia	1.0000
Austria	1.0000	France	0.6858	Mali	0.9545	South Africa	0.7485
Azerbaijan	0.6051	Gabon	0.9629	Mauritania	0.8662	South Korea	1.0000
Bangladesh	0.1396	Gambia	0.9036	Mexico	0.8964	Spain	0.4966
Belarus	1.0000	Georgia	0.4471	Moldova	0.6788	Sri Lanka	0.7870
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.9401
Benin	0.9503	Ghana	0.9264	Morocco	0.9064	Sweden	1.0000
Bolivia	0.9625	Greece	0.5411	Mozambique	0.8765	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.8374	Namibia	0.9328	Syria	0.8215
Brazil	0.8364	Guinea	0.9487	Nepal	0.7976	Tajikistan	0.9055
Bulgaria	0.7080	Guinea Bis.	0.8953	Netherlands	1.0000	Tanzania	0.9281
Burkina Faso	0.8905	Hondura	0.8643	New Zealand	0.0000	Thailand	0.7434
Burundi	1.0000	Hungary	0.7323	Nicaragua	0.8116	Togo	0.9099
C. African R.	0.9632	India	0.7688	Niger	1.0000	Tunisia	0.7935
Cambodia	0.5774	Indonesia	0.8189	Nigeria	0.9374	Turkey	0.5653
Cameroon	0.9771	Iran	0.8240	Norway	1.0000	UAE	0.8662
Canada	0.7529	Ireland	1.0000	Oman	0.6989	Uganda	1.0000
Chad	0.9073	Israel	0.8053	Pakistan	0.7706	UK	1.0000
Chile	1.0000	Italy	0.6496	Panama	0.8606	Ukraine	0.6145
China	0.6477	Japan	0.4239	Papua N.G.	0.8713	Uruguay	0.7905
Colombia	0.8695	Jordan	0.9405	Paraguay	0.9291	USA	0.6386
Congo	0.9677	Kazakhstan	0.8111	Peru	0.9167	Uzbekistan	0.8248
Cote d'Ivoire	0.9229	Kenya	0.9077	Philippines	0.8583	Venezuela	0.8055
Croatia	0.8583	Kuwait	0.7706	Poland	1.0000	Vietnam	0.5885
Czech Rep.	1.0000	Kyrgyzstan	0.6788	Portugal	1.0000	Yemen	0.9046
D.R. Congo	0.9683	Laos	0.5928	Romania	0.5620	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	0.6925	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8343	Min	0.0000	Std. Deviation	0.1752	5 Percentile	0.5426
Missing	0	Median	0.8872	Max	1.0000			95 Percentile	1.0000





**Indicator:** Tuberculosis prevalence**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** It refers to people with all forms of tuberculosis, including tuberculosis in people with HIV infection.**Sources:** World Health Organization[http://www.who.int/whosis/database/core/core\\_select.cfm](http://www.who.int/whosis/database/core/core_select.cfm)**Period:** 1990-2005**Units:** incidences per 100,000 population**Most recent data**

Albania	19.7865	Ecuador	131.0167	Lebanon	62.6123	Rwanda	119.0084
Algeria	55.3399	Egypt	24.9601	Lithuania	10.9557	Saudi Arabia	361.0129
Angola	268.7939	El Salvador	51.1969	Macedonia, FYR	62.5386	Senegal	41.4125
Argentina	40.9561	Estonia	42.7028	Madagascar	29.5557	Sierra Leone	254.7490
Armenia	70.9482	Ethiopia	343.9043	Malawi	233.8752	Slovakia	475.3706
Australia	5.7965	Finland	6.2241	Malaysia	409.4306	Slovenia	17.0292
Austria	11.4986	France	12.8822	Mali	101.5966	South Africa	14.5843
Azerbaijan	75.6697	Gabon	307.5406	Mauritania	277.8313	South Korea	599.8881
Bangladesh	227.0421	Gambia	242.4062	Mexico	298.0214	Spain	27.4925
Belarus	61.6603	Georgia	82.5900	Moldova	22.6623	Sri Lanka	60.4982
Belgium	12.7695	Germany	7.1941	Mongolia	138.3183	Sudan	228.2284
Benin	87.8767	Ghana	204.9835	Morocco	190.5114	Sweden	5.9121
Bolivia	210.5068	Greece	16.5322	Mozambique	89.2307	Switzerland	7.2761
Botswana	654.4969	Guatemala	77.7558	Namibia	447.3126	Syria	37.1076
Brazil	59.5745	Guinea	235.8525	Nepal	697.3137	Tajikistan	197.5351
Bulgaria	38.9793	Guinea Bis.	206.2599	Netherlands	180.0112	Tanzania	341.9836
Burkina Faso	223.2999	Hondura	78.3255	New Zealand	6.9822	Thailand	142.2550
Burundi	333.7297	Hungary	21.6621	Nicaragua	9.0414	Togo	372.8192
C. African R.	313.7855	India	167.8185	Niger	57.7026	Tunisia	24.4018
Cambodia	505.5096	Indonesia	239.1900	Nigeria	163.5637	Turkey	28.8136
Cameroon	174.3105	Iran	23.4798	Norway	282.5539	UAE	15.7384
Canada	4.7153	Ireland	12.1287	Oman	5.2099	Uganda	368.8357
Chad	271.6368	Israel	7.6589	Pakistan	10.5078	UK	14.2359
Chile	14.5883	Italy	6.8420	Panama	181.2712	Ukraine	99.3601
China	100.2648	Japan	28.1569	Papua N.G.	45.3966	Uruguay	27.6206
Colombia	44.9464	Jordan	5.3428	Paraguay	249.5035	USA	4.5267
Congo	356.1805	Kazakhstan	143.9947	Peru	68.4241	Uzbekistan	113.4625
Cote d'Ivoire	14.3681	Kenya	641.0089	Philippines	171.5388	Venezuela	41.5952
Croatia	382.3832	Kuwait	96.4143	Poland	291.2291	Vietnam	175.1765
Czech Rep.	9.3781	Kyrgyzstan	23.5599	Portugal	26.1401	Yemen	81.9036
D.R. Congo	90.5379	Laos	120.5528	Romania	32.9379	Zambia	600.1342
Denmark	10.3692	Latvia	154.5675	Russia	134.2267	Zimbabwe	600.9988

**Descriptive Statistics - based on most recent data**

Available	128	Mean	148.4795	Min	4.5267	Std. Deviation	162.9082	5 Percentile	6.4403
Missing	0	Median	82.2468	Max	697.3137			95 Percentile	494.9609

## Normalization

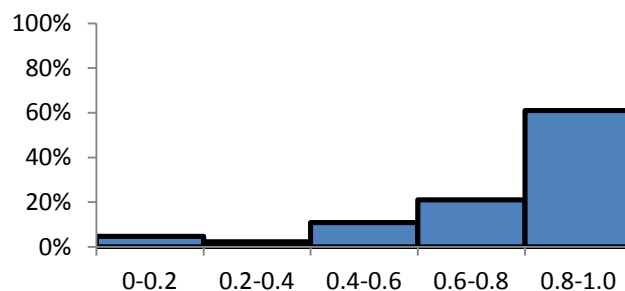
Type *SB (smaller is better)* Parameters *U=0.0000* *T=697.3137*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.9716	Ecuador	0.8121	Lebanon	0.9102	Rwanda	0.8293
Algeria	0.9206	Egypt	0.9642	Lithuania	0.9843	Saudi Arabia	0.4823
Angola	0.6145	El Salvador	0.9266	Macedonia, FYR	0.9103	Senegal	0.9406
Argentina	0.9413	Estonia	0.9388	Madagascar	0.9576	Sierra Leone	0.6347
Armenia	0.8983	Ethiopia	0.5068	Malawi	0.6646	Slovakia	0.3183
Australia	0.9917	Finland	0.9911	Malaysia	0.4128	Slovenia	0.9756
Austria	0.9835	France	0.9815	Mali	0.8543	South Africa	0.9791
Azerbaijan	0.8915	Gabon	0.5590	Mauritania	0.6016	South Korea	0.1397
Bangladesh	0.6744	Gambia	0.6524	Mexico	0.5726	Spain	0.9606
Belarus	0.9116	Georgia	0.8816	Moldova	0.9675	Sri Lanka	0.9132
Belgium	0.9817	Germany	0.9897	Mongolia	0.8016	Sudan	0.6727
Benin	0.8740	Ghana	0.7060	Morocco	0.7268	Sweden	0.9915
Bolivia	0.6981	Greece	0.9763	Mozambique	0.8720	Switzerland	0.9896
Botswana	0.0614	Guatemala	0.8885	Namibia	0.3585	Syria	0.9468
Brazil	0.9146	Guinea	0.6618	Nepal	0.0000	Tajikistan	0.7167
Bulgaria	0.9441	Guinea Bis.	0.7042	Netherlands	0.7419	Tanzania	0.5096
Burkina Faso	0.6803	Hondura	0.8877	New Zealand	0.9900	Thailand	0.7960
Burundi	0.5214	Hungary	0.9689	Nicaragua	0.9870	Togo	0.4653
C. African R.	0.5500	India	0.7593	Niger	0.9173	Tunisia	0.9650
Cambodia	0.2751	Indonesia	0.6570	Nigeria	0.7654	Turkey	0.9587
Cameroon	0.7500	Iran	0.9663	Norway	0.5948	UAE	0.9774
Canada	0.9932	Ireland	0.9826	Oman	0.9925	Uganda	0.4711
Chad	0.6105	Israel	0.9890	Pakistan	0.9849	UK	0.9796
Chile	0.9791	Italy	0.9902	Panama	0.7400	Ukraine	0.8575
China	0.8562	Japan	0.9596	Papua N.G.	0.9349	Uruguay	0.9604
Colombia	0.9355	Jordan	0.9923	Paraguay	0.6422	USA	0.9935
Congo	0.4892	Kazakhstan	0.7935	Peru	0.9019	Uzbekistan	0.8373
Cote d'Ivoire	0.9794	Kenya	0.0807	Philippines	0.7540	Venezuela	0.9403
Croatia	0.4516	Kuwait	0.8617	Poland	0.5824	Vietnam	0.7488
Czech Rep.	0.9866	Kyrgyzstan	0.9662	Portugal	0.9625	Yemen	0.8825
D.R. Congo	0.8702	Laos	0.8271	Romania	0.9528	Zambia	0.1394
Denmark	0.9851	Latvia	0.7783	Russia	0.8075	Zimbabwe	0.1381

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7871	Min	0.0000	Std. Deviation	0.2336	5 Percentile	0.2902
Missing	0	Median	0.8821	Max	0.9935			95 Percentile	0.9908



## Indicator: Unemployment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** Unemployment refers to the share of the labor force that is without work but available for and seeking employment. Definitions of labor force and unemployment differ by country.

**Sources:** World Bank (2007); CIA (2008); International Monetary Fund (<http://www.imf.org/external/data.htm#data>)

**Period:** 1990-2005

**Units:** percent of total labor force

### Most recent data

Albania	15.8000	Ecuador	9.3000	Lebanon	8.6000	Rwanda	0.6000
Algeria	27.2992	Egypt	9.0000	Lithuania	13.8000	Saudi Arabia	4.5991
Angola	-	El Salvador	6.1998	Macedonia, FYR	31.8996	Senegal	48.0000*
Argentina	19.6000	Estonia	10.3000	Madagascar	2.8000	Sierra Leone	65.0000
Armenia	9.3996	Ethiopia	5.0000	Malawi	-	Slovakia	18.6000
Australia	6.0000	Finland	9.0000	Malaysia	3.7995	Slovenia	5.9000
Austria	4.0000	France	8.8996	Mali	30.0000	South Africa	29.5000
Azerbaijan	1.2995	Gabon	40.0000	Mauritania	20.0000	South Korea	3.0991
Bangladesh	3.2995	Gambia	-	Mexico	2.4000	Spain	11.3996
Belarus	3.0000	Georgia	12.3000	Moldova	6.8000	Sri Lanka	8.6998
Belgium	6.9000	Germany	8.6000	Mongolia	3.4000	Sudan	18.7000
Benin	-	Ghana	-	Morocco	11.6000	Sweden	5.1998
Bolivia	5.1998	Greece	9.6000	Mozambique	21.0000	Switzerland	2.9000
Botswana	15.8000	Guatemala	1.7995	Namibia	33.7992	Syria	11.6998
Brazil	9.3996	Guinea	-	Nepal	1.1000	Tajikistan	2.7000
Bulgaria	17.6000	Guinea Bis.	-	Netherlands	3.0991	Tanzania	3.2000
Burkina Faso	77.0000	Hondura	3.7995	New Zealand	5.1998	Thailand	2.5991
Burundi	14.0000	Hungary	5.8000	Nicaragua	12.1998	Togo	-
C. African R.	8.0000	India	7.2000*	Niger	20.9000	Tunisia	15.6000
Cambodia	1.7995	Indonesia	9.1000	Nigeria	3.2000	Turkey	10.6000
Cameroon	30.0000	Iran	12.3000	Norway	3.9000	UAE	2.2995
Canada	7.6998	Ireland	4.1998	Oman	15.0000	Uganda	7.4000
Chad	-	Israel	10.3000	Pakistan	7.8000	UK	5.0991
Chile	7.8000	Italy	9.0000	Panama	13.1998	Ukraine	10.1998
China	4.0000	Japan	5.4000	Papua N.G.	2.8000	Uruguay	18.6000
Colombia	14.6998	Jordan	13.1998	Paraguay	6.8000	USA	5.8000
Congo	-	Kazakhstan	2.5991	Peru	8.6998	Uzbekistan	0.4000
Cote d'Ivoire	2.6000	Kenya	21.2992	Philippines	9.8000	Venezuela	15.8000
Croatia	14.8000	Kuwait	0.7800	Poland	19.8996	Vietnam	5.3000*
Czech Rep.	7.3000	Kyrgyzstan	18.0000	Portugal	5.0991	Yemen	11.5000
D.R. Congo	-	Laos	2.4000	Romania	8.3996	Zambia	50.0000
Denmark	4.3000	Latvia	12.0000	Russia	8.6000	Zimbabwe	6.0000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	117	Mean	11.6116	Min	0.4000	Std. Deviation	12.1225	5 Percentile	1.7995
Missing	11	Median	8.6000	Max	77.0000			95 Percentile	32.2795

## Normalization

Type	NB (nominal is better)	Parameters	$u=1.2995$	$\tau=4.0000$	$U=7.0000$	$T=12.0000$
		Comments	$u=\min$ (excluding outliers)	3.5%	$r$ (set by experts)	$T$ (set by experts)

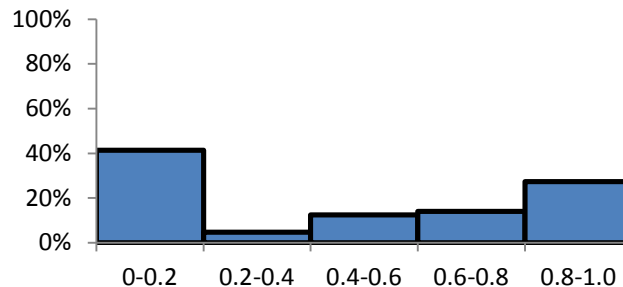
## Smoothed data

Albania	0.0000	Ecuador	0.4117	Lebanon	0.6800	Rwanda	0.0000
Algeria	0.0000	Egypt	0.6531	Lithuania	0.0000	Saudi Arabia	1.0000
Angola	0.7038**	El Salvador	0.9876	Macedonia, FYR	0.0000	Senegal	0.0000*
Argentina	0.0000	Estonia	0.3400	Madagascar	0.7971	Sierra Leone	0.0000
Armenia	0.5201	Ethiopia	1.0000	Malawi	0.7038**	Slovakia	0.0000
Australia	1.0000	Finland	0.5945	Malaysia	0.9258	Slovenia	1.0000
Austria	1.0000	France	0.6201	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.6664
Bangladesh	0.7406	Gambia	0.3600**	Mexico	0.4075	Spain	0.1202
Belarus	0.6297	Georgia	0.0867	Moldova	1.0000	Sri Lanka	0.6600
Belgium	1.0000	Germany	0.6800	Mongolia	0.8625	Sudan	0.0000
Benin	0.0000**	Ghana	0.7038**	Morocco	0.0800	Sweden	1.0000
Bolivia	0.9230	Greece	0.4800	Mozambique	0.0000	Switzerland	0.5927
Botswana	0.0000	Guatemala	0.1852	Namibia	0.0000	Syria	0.0600
Brazil	0.5201	Guinea	0.0000**	Nepal	0.0000	Tajikistan	0.5186
Bulgaria	0.0000	Guinea Bis.	0.0000**	Netherlands	0.6642	Tanzania	0.7038
Burkina Faso	0.0000	Hondura	0.8685	New Zealand	1.0000	Thailand	0.4770
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000**
C. African R.	0.8000	India	0.9600*	Niger	0.0000	Tunisia	0.0000
Cambodia	0.1852	Indonesia	0.5800	Nigeria	0.7038	Turkey	0.2800
Cameroon	0.0000	Iran	0.0000	Norway	0.9630	UAE	0.3703
Canada	0.8600	Ireland	1.0000	Oman	0.0000	Uganda	0.8764
Chad	0.8764**	Israel	0.3400	Pakistan	0.8400	UK	1.0000
Chile	0.8298	Italy	0.5893	Panama	0.0033	Ukraine	0.3600
China	1.0000	Japan	1.0000	Papua N.G.	0.5556	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.9452	USA	0.9943
Congo	0.9258**	Kazakhstan	0.4812	Peru	0.7800	Uzbekistan	0.0000
Cote d'Ivoire	0.4816	Kenya	0.0000	Philippines	0.4363	Venezuela	0.0000
Croatia	0.0000	Kuwait	0.0000	Poland	0.0000	Vietnam	1.0000*
Czech Rep.	0.8591	Kyrgyzstan	0.0000	Portugal	0.9895	Yemen	0.1000
D.R. Congo	0.0000**	Laos	0.4075	Romania	0.8244	Zambia	0.0000
Denmark	1.0000	Latvia	0.0000	Russia	0.6800	Zimbabwe	1.0000

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4438	Min	0.0000	Std. Deviation	0.4007	5 Percentile	0.0000
Missing	0	Median	0.4785	Max	1.0000			95 Percentile	1.0000



## Indicator: Unemployment gender equality

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** This variable shows the absolute difference between unemployment rate for female and male labor force.

**Sources:** World Bank (2007)

**Period:** 1990-2005

**Units:** percent

### Most recent data

Albania	5.1000	Ecuador	5.0000	Lebanon	1.8000	Rwanda	0.5000
Algeria	1.5000	Egypt	17.2000	Lithuania	2.7000	Saudi Arabia	10.0000
Angola	-	El Salvador	4.8000	Macedonia, FYR	1.9000	Senegal	-
Argentina	3.2000	Estonia	0.0000	Madagascar	1.6000	Sierra Leone	-
Armenia	7.5000	Ethiopia	5.3000	Malawi	0.6000	Slovakia	1.9000
Australia	0.3000	Finland	0.5000	Malaysia	0.0000	Slovenia	0.6000
Austria	0.6000	France	1.8000	Mali	3.7000	South Africa	9.1000
Azerbaijan	1.9000	Gabon	2.9000	Mauritania	-	South Korea	0.0000
Bangladesh	0.7000	Gambia	-	Mexico	0.2000	Spain	5.2000
Belarus	1.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	5.4000
Belgium	1.9000	Germany	0.0000	Mongolia	0.6000	Sudan	-
Benin	0.5000	Ghana	1.2000	Morocco	0.7000	Sweden	0.0000
Bolivia	2.6000	Greece	9.4000	Mozambique	-	Switzerland	0.4000
Botswana	6.6000	Guatemala	1.5000	Namibia	9.1000	Syria	19.3000
Brazil	4.5000	Guinea	2.9000	Nepal	3.3000	Tajikistan	-
Bulgaria	0.0000	Guinea Bis.	-	Netherlands	0.7000	Tanzania	1.4000
Burkina Faso	-	Hondura	3.0000	New Zealand	0.6000	Thailand	0.0000
Burundi	0.4000	Hungary	0.5000	Nicaragua	0.4000	Togo	-
C. African R.	-	India	0.4000	Niger	-	Tunisia	4.2000
Cambodia	0.1000	Indonesia	5.2000	Nigeria	2.6000	Turkey	0.0000
Cameroon	1.5000	Iran	7.0000	Norway	0.0000	UAE	0.4000
Canada	0.0000	Ireland	0.0000	Oman	-	Uganda	1.4000
Chad	0.9000	Israel	1.0000	Pakistan	6.2000	UK	0.0000
Chile	2.4000	Italy	3.9000	Panama	5.9000	Ukraine	2.4000
China	0.0000*	Japan	0.0000	Papua N.G.	3.0000	Uruguay	5.8000
Colombia	6.6000	Jordan	4.7000	Paraguay	3.4000	USA	0.0000
Congo	0.0000	Kazakhstan	2.8000	Peru	4.1000	Uzbekistan	-
Cote d'Ivoire	0.0000*	Kenya	15.4000	Philippines	0.0000	Venezuela	5.9000
Croatia	2.3000	Kuwait	2.1000	Poland	2.5000	Vietnam	0.5000
Czech Rep.	2.9000	Kyrgyzstan	1.7000	Portugal	2.0000	Yemen	4.3000
D.R. Congo	-	Laos	0.0000	Romania	0.0000	Zambia	12.0000
Denmark	1.4000	Latvia	0.0000	Russia	0.0000	Zimbabwe	4.3000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	112	Mean	2.7607	Min	0.0000	Std. Deviation	3.5473	5 Percentile	0.0000
Missing	16	Median	1.6500	Max	19.3000			95 Percentile	9.2350

## Normalization

Type *SB (smaller is better)*

Parameters

*U=0.0000*

*T=5.2000*

Comments

*T=minimum possible*

*U=maximum of EU-14 (excluding 7.5% outliers)*

## Smoothed data

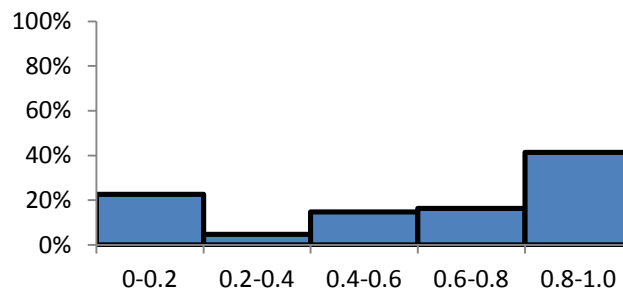
Albania	0.0192	Ecuador	0.0349	Lebanon	0.6538	Rwanda	0.9038
Algeria	0.7115	Egypt	0.0000	Lithuania	0.4808	Saudi Arabia	0.0000
Angola	0.6346**	El Salvador	0.1191	Macedonia, FYR	0.6346	Senegal	0.9038**
Argentina	0.4035	Estonia	0.8882	Madagascar	0.6923	Sierra Leone	0.9231**
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.8846	Slovakia	0.6346
Australia	0.9470	Finland	0.9038	Malaysia	0.9502	Slovenia	0.8804
Austria	0.9038	France	0.6446	Mali	0.7500	South Africa	0.0096
Azerbaijan	0.6346	Gabon	0.4423	Mauritania	0.6346**	South Korea	0.9834
Bangladesh	0.9327	Gambia	0.5385**	Mexico	0.9516	Spain	0.0000
Belarus	0.8077	Georgia	0.7428	Moldova	0.5156	Sri Lanka	0.0000
Belgium	0.6419	Germany	1.0000	Mongolia	0.8848	Sudan	0.9231**
Benin	0.9038	Ghana	0.7692	Morocco	0.8654	Sweden	1.0000
Bolivia	0.5652	Greece	0.0000	Mozambique	0.0000**	Switzerland	0.8467
Botswana	0.1827	Guatemala	0.8228	Namibia	0.0000	Syria	0.0000
Brazil	0.1346	Guinea	0.4423	Nepal	0.3654	Tajikistan	0.8077**
Bulgaria	0.9434	Guinea Bis.	0.7115**	Netherlands	0.8654	Tanzania	0.7308
Burkina Faso	0.4423**	Hondura	0.4231	New Zealand	0.8846	Thailand	0.9742
Burundi	0.9231	Hungary	0.9057	Nicaragua	0.9231	Togo	0.4423**
C. African R.	0.4519**	India	0.9231	Niger	0.9038**	Tunisia	0.1923
Cambodia	0.9183	Indonesia	0.0430	Nigeria	0.5000	Turkey	0.8656
Cameroon	0.7115	Iran	0.1899	Norway	1.0000	UAE	0.9231
Canada	1.0000	Ireland	0.8983	Oman	0.5962**	Uganda	0.7308
Chad	0.8269	Israel	0.8077	Pakistan	0.0000	UK	1.0000
Chile	0.6050	Italy	0.2500	Panama	0.0000	Ukraine	0.5385
China	1.0000*	Japan	1.0000	Papua N.G.	0.4231	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0925	Paraguay	0.3415	USA	1.0000
Congo	1.0000	Kazakhstan	0.3846	Peru	0.2763	Uzbekistan	0.1899**
Cote d'Ivoire	1.0000*	Kenya	0.0000	Philippines	0.9352	Venezuela	0.0000
Croatia	0.5577	Kuwait	0.5962	Poland	0.5684	Vietnam	0.9041
Czech Rep.	0.4423	Kyrgyzstan	0.6731	Portugal	0.6306	Yemen	0.1731
D.R. Congo	0.9231**	Laos	1.0000	Romania	0.8029	Zambia	0.0000
Denmark	0.7842	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.3077

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.5930	Min	0.0000	Std. Deviation	0.3511	5 Percentile	0.0000
Missing	0	Median	0.6635	Max	1.0000			95 Percentile	1.0000



**Indicator: Urban NO2 concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of NO2 originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2005**Units:** µg/m3 of air**Most recent data**

Albania	14.7400	Ecuador	47.7400	Lebanon	25.8100	Rwanda	17.6800
Algeria	43.7000	Egypt	63.8700	Lithuania	22.0000	Saudi Arabia	31.0100
Angola	46.9600	El Salvador	70.5000	Macedonia, FYR	25.8200	Senegal	26.0200
Argentina	56.7900	Estonia	22.6700	Madagascar	22.8100	Sierra Leone	29.9400
Armenia	1.5800	Ethiopia	36.8400	Malawi	27.3300	Slovakia	37.4400
Australia	16.4700	Finland	24.0000	Malaysia	39.5300	Slovenia	32.4700
Austria	33.0200	France	51.0000	Mali	24.1700	South Africa	44.0300
Azerbaijan	19.8100	Gabon	42.4300	Mauritania	33.1800	South Korea	53.4100
Bangladesh	28.6700	Gambia	25.4700	Mexico	56.0200	Spain	67.3000
Belarus	42.6000	Georgia	28.0600	Moldova	0.0100	Sri Lanka	29.1100
Belgium	41.0000	Germany	34.7200	Mongolia	25.8200	Sudan	42.2600
Benin	26.5600	Ghana	30.0300	Morocco	47.1100	Sweden	18.2000
Bolivia	42.5100	Greece	58.8000	Mozambique	23.5900	Switzerland	38.5700
Botswana	32.8000	Guatemala	69.3300	Namibia	31.8800	Syria	43.7400
Brazil	51.3700	Guinea	33.9700	Nepal	23.7800	Tajikistan	26.5000
Bulgaria	9.3500	Guinea Bis.	29.8300	Netherlands	58.0000	Tanzania	33.4700
Burkina Faso	34.7700	Hondura	29.5000	New Zealand	22.5000	Thailand	23.0000
Burundi	31.8600	Hungary	45.8500	Nicaragua	32.0000	Togo	35.8900
C. African R.	29.7300	India	29.6800	Niger	38.1200	Tunisia	38.0800
Cambodia	28.3000	Indonesia	40.7200	Nigeria	26.5900	Turkey	9.4500
Cameroon	45.4100	Iran	53.8100	Norway	38.0000	UAE	0.0000
Canada	34.7300	Ireland	70.0000	Oman	44.3200	Uganda	28.6600
Chad	36.4500	Israel	35.5500	Pakistan	45.0200	UK	54.8700
Chile	81.0000	Italy	72.0100	Panama	42.0000	Ukraine	0.0400
China	71.7200	Japan	55.0000	Papua N.G.	31.4600	Uruguay	35.2400
Colombia	52.2100	Jordan	47.4000	Paraguay	46.1800	USA	60.5700
Congo	44.1700	Kazakhstan	28.6200	Peru	56.2900	Uzbekistan	35.8800
Cote d'Ivoire	37.5600	Kenya	42.6200	Philippines	36.0200	Venezuela	57.0000
Croatia	26.1000	Kuwait	19.9200	Poland	38.7200	Vietnam	31.1500
Czech Rep.	31.5300	Kyrgyzstan	24.7200	Portugal	49.6900	Yemen	41.3200
D.R. Congo	42.1100	Laos	29.5900	Romania	16.6300	Zambia	26.3500
Denmark	47.0000	Latvia	22.9900	Russia	109.1600	Zimbabwe	38.5500

**Descriptive Statistics - based on most recent data**

Available	128	Mean	37.0827	Min	0.0000	Std. Deviation	16.5517	5 Percentile	15.3455
Missing	0	Median	35.0050	Max	109.1600			95 Percentile	68.6195

## Normalization

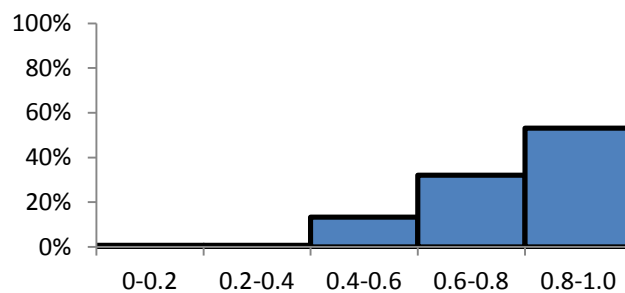
Type SB (smaller is better) Parameters U=18.2000 T=109.1600  
 Comments T=minimum of EU-14, U=max

## Smoothed data

Albania	1.0000	Ecuador	0.6752	Lebanon	0.9163	Rwanda	1.0000
Algeria	0.7197	Egypt	0.4979	Lithuania	0.9582	Saudi Arabia	0.8592
Angola	0.6838	El Salvador	0.4250	Macedonia, FYR	0.9162	Senegal	0.9140
Argentina	0.5757	Estonia	0.9509	Madagascar	0.9493	Sierra Leone	0.8709
Armenia	1.0000	Ethiopia	0.7951	Malawi	0.8996	Slovakia	0.7885
Australia	1.0000	Finland	0.9330	Malaysia	0.7655	Slovenia	0.8431
Austria	0.8371	France	0.6394	Mali	0.9344	South Africa	0.7160
Azerbaijan	0.9823	Gabon	0.7336	Mauritania	0.8353	South Korea	0.6129
Bangladesh	0.8849	Gambia	0.9201	Mexico	0.5842	Spain	0.4602
Belarus	0.7318	Georgia	0.8916	Moldova	1.0000	Sri Lanka	0.8801
Belgium	0.7493	Germany	0.8184	Mongolia	0.9162	Sudan	0.7355
Benin	0.9081	Ghana	0.8699	Morocco	0.6822	Sweden	0.9579
Bolivia	0.7327	Greece	0.5536	Mozambique	0.9407	Switzerland	0.7761
Botswana	0.8395	Guatemala	0.4379	Namibia	0.8496	Syria	0.7192
Brazil	0.6353	Guinea	0.8266	Nepal	0.9387	Tajikistan	0.9088
Bulgaria	0.5297	Guinea Bis.	0.8721	Netherlands	0.5624	Tanzania	0.8321
Burkina Faso	0.8178	Hondura	0.8758	New Zealand	0.9527	Thailand	0.9472
Burundi	0.8498	Hungary	0.6960	Nicaragua	0.8483	Togo	0.8055
C. African R.	0.8732	India	0.8738	Niger	0.7810	Tunisia	0.7814
Cambodia	0.8890	Indonesia	0.7524	Nigeria	0.9078	Turkey	1.0000
Cameroon	0.7009	Iran	0.6085	Norway	0.7824	UAE	1.0000
Canada	0.8183	Ireland	0.4305	Oman	0.7128	Uganda	0.8850
Chad	0.7994	Israel	0.8093	Pakistan	0.7051	UK	0.5969
Chile	0.3096	Italy	0.4084	Panama	0.7383	Ukraine	1.0000
China	0.4116	Japan	0.5954	Papua N.G.	0.8542	Uruguay	0.8127
Colombia	0.6261	Jordan	0.6790	Paraguay	0.6924	USA	0.5342
Congo	0.7145	Kazakhstan	0.8854	Peru	0.5812	Uzbekistan	0.8056
Cote d'Ivoire	0.7872	Kenya	0.7315	Philippines	0.8041	Venezuela	0.5734
Croatia	0.9131	Kuwait	0.9811	Poland	0.7741	Vietnam	0.8576
Czech Rep.	0.8535	Kyrgyzstan	0.9283	Portugal	0.6538	Yemen	0.7458
D.R. Congo	0.7371	Laos	0.8748	Romania	1.0000	Zambia	0.9104
Denmark	0.6834	Latvia	0.9473	Russia	0.0000	Zimbabwe	0.7763

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7801	Min	0.0000	Std. Deviation	0.1680	5 Percentile	0.4457
Missing	0	Median	0.8110	Max	1.0000			95 Percentile	1.0000





**Indicator: Urban SO2 concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of SO2 originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2005**Units:** µg/m3 of air**Most recent data**

Albania	2.2800	Ecuador	21.5200	Lebanon	1.6500	Rwanda	9.3300
Algeria	11.5000	Egypt	69.0000	Lithuania	6.0000	Saudi Arabia	3.2300
Angola	7.3700	El Salvador	4.2300	Macedonia, FYR	24.2300	Senegal	1.2100
Argentina	1.0200	Estonia	2.0000	Madagascar	24.6500	Sierra Leone	6.6700
Armenia	0.4300	Ethiopia	7.4800	Malawi	3.7800	Slovakia	13.4000
Australia	13.1700	Finland	3.0000	Malaysia	20.4900	Slovenia	8.7100
Austria	8.3100	France	8.0000	Mali	8.6000	South Africa	22.3700
Azerbaijan	0.2500	Gabon	5.7900	Mauritania	2.6600	South Korea	23.8400
Bangladesh	6.0800	Gambia	1.4900	Mexico	46.6000	Spain	7.8200
Belarus	0.0100	Georgia	1.2500	Moldova	0.0000	Sri Lanka	6.9100
Belgium	9.7000	Germany	5.0200	Mongolia	0.5600	Sudan	5.9100
Benin	26.6200	Ghana	12.9800	Morocco	12.6400	Sweden	3.0000
Bolivia	19.2500	Greece	13.1600	Mozambique	2.9000	Switzerland	6.2500
Botswana	1.8300	Guatemala	35.3900	Namibia	19.8400	Syria	4.8400
Brazil	75.7800	Guinea	9.2900	Nepal	9.3700	Tajikistan	0.2300
Bulgaria	17.7900	Guinea Bis.	0.9300	Netherlands	5.1500	Tanzania	17.4300
Burkina Faso	12.0000	Hondura	18.5600	New Zealand	15.0000	Thailand	11.0000
Burundi	10.9100	Hungary	9.0000	Nicaragua	2.7700	Togo	2.4700
C. African R.	5.6000	India	27.5500	Niger	3.2200	Tunisia	3.9100
Cambodia	5.5000	Indonesia	39.3300	Nigeria	10.2500	Turkey	64.4700
Cameroon	9.3800	Iran	209.0000	Norway	4.0000	UAE	0.0100
Canada	9.3200	Ireland	6.6900	Oman	2.0200	Uganda	22.4900
Chad	5.6500	Israel	16.8200	Pakistan	6.3700	UK	4.6400
Chile	29.0000	Italy	1.3300	Panama	4.3800	Ukraine	0.0600
China	97.0700	Japan	19.0000	Papua N.G.	8.6300	Uruguay	4.9700
Colombia	59.1300	Jordan	2.8800	Paraguay	1.6500	USA	15.4300
Congo	8.8900	Kazakhstan	0.0400	Peru	76.8200	Uzbekistan	1.5700
Cote d'Ivoire	11.3400	Kenya	16.6400	Philippines	33.0000	Venezuela	33.0000
Croatia	31.0000	Kuwait	0.3100	Poland	20.5600	Vietnam	4.6500
Czech Rep.	9.3100	Kyrgyzstan	0.3100	Portugal	6.7700	Yemen	8.8500
D.R. Congo	1.0500	Laos	19.8400	Romania	6.5800	Zambia	19.5200
Denmark	4.0000	Latvia	6.3300	Russia	3.0000	Zimbabwe	5.3500

**Descriptive Statistics - based on most recent data**

Available	128	Mean	14.3936	Min	0.0000	Std. Deviation	23.9724	5 Percentile	0.2710
Missing	0	Median	7.4250	Max	209.0000			95 Percentile	54.7445

## Normalization

Type *SB (smaller is better)*

Parameters *U=1.3300*

*T=97.0700*

Comments *T=minimum of EU-14*

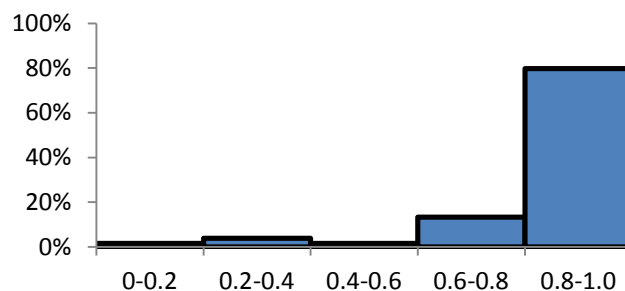
*U=max (excluding 1% outliers)*

## Smoothed data

Albania	0.9901	Ecuador	0.7891	Lebanon	0.9967	Rwanda	0.9164
Algeria	0.8938	Egypt	0.2932	Lithuania	0.9512	Saudi Arabia	0.9802
Angola	0.9369	El Salvador	0.9697	Macedonia, FYR	0.7608	Senegal	1.0000
Argentina	1.0000	Estonia	0.9930	Madagascar	0.7564	Sierra Leone	0.9442
Armenia	1.0000	Ethiopia	0.9358	Malawi	0.9744	Slovakia	0.8739
Australia	0.8763	Finland	0.9826	Malaysia	0.7999	Slovenia	0.9229
Austria	0.9236	France	0.9135	Mali	0.9241	South Africa	0.7802
Azerbaijan	1.0000	Gabon	0.9534	Mauritania	0.9861	South Korea	0.7223
Bangladesh	0.9504	Gambia	0.9983	Mexico	0.5272	Spain	0.9292
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.9417
Belgium	0.8825	Germany	0.9370	Mongolia	1.0000	Sudan	0.9522
Benin	0.7358	Ghana	0.8783	Morocco	0.8819	Sweden	0.9762
Bolivia	0.8128	Greece	0.8764	Mozambique	0.9836	Switzerland	0.9329
Botswana	0.9948	Guatemala	0.6442	Namibia	0.8067	Syria	0.9633
Brazil	0.2224	Guinea	0.9169	Nepal	0.9160	Tajikistan	1.0000
Bulgaria	0.6780	Guinea Bis.	1.0000	Netherlands	0.9601	Tanzania	0.8318
Burkina Faso	0.8886	Hondura	0.8200	New Zealand	0.8572	Thailand	0.8990
Burundi	0.8999	Hungary	0.8093	Nicaragua	0.9850	Togo	0.9881
C. African R.	0.9554	India	0.7261	Niger	0.9803	Tunisia	0.9731
Cambodia	0.9564	Indonesia	0.6031	Nigeria	0.9068	Turkey	0.3405
Cameroon	0.9159	Iran	0.0000	Norway	0.9721	UAE	1.0000
Canada	0.9165	Ireland	0.8919	Oman	0.9928	Uganda	0.7790
Chad	0.9549	Israel	0.8382	Pakistan	0.9474	UK	0.9022
Chile	0.7110	Italy	1.0000	Panama	0.9681	Ukraine	1.0000
China	0.0000	Japan	0.8154	Papua N.G.	0.9238	Uruguay	0.9620
Colombia	0.3963	Jordan	0.9838	Paraguay	0.9967	USA	0.8527
Congo	0.9210	Kazakhstan	1.0000	Peru	0.2115	Uzbekistan	0.9975
Cote d'Ivoire	0.8954	Kenya	0.8401	Philippines	0.6692	Venezuela	0.6692
Croatia	0.6901	Kuwait	1.0000	Poland	0.6883	Vietnam	0.9653
Czech Rep.	0.8546	Kyrgyzstan	1.0000	Portugal	0.9422	Yemen	0.9215
D.R. Congo	1.0000	Laos	0.8067	Romania	0.9452	Zambia	0.8100
Denmark	0.9721	Latvia	0.9478	Russia	0.4957	Zimbabwe	0.9580

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8624	Min	0.0000	Std. Deviation	0.1923	5 Percentile	0.4311
Missing	0	Median	0.9239	Max	1.0000			95 Percentile	1.0000



**Indicator:** Urban TSP concentration**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of TSP originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2005**Units:** µg/m3 of air**Most recent data**

Albania	167.4200	Ecuador	125.7300	Lebanon	89.4800	Rwanda	150.9000
Algeria	116.8500	Egypt	74.1800	Lithuania	31.9000	Saudi Arabia	72.3900
Angola	163.8500	El Salvador	163.7700	Macedonia, FYR	86.2500	Senegal	167.6000
Argentina	50.0100	Estonia	33.7300	Madagascar	215.7000	Sierra Leone	136.8000
Armenia	1.0200	Ethiopia	195.1400	Malawi	178.5000	Slovakia	49.2100
Australia	43.2200	Finland	18.9200	Malaysia	91.5800	Slovenia	36.0400
Austria	31.6300	France	24.0000	Mali	150.0000	South Africa	111.9000
Azerbaijan	105.3600	Gabon	121.6000	Mauritania	106.0000	South Korea	66.0500
Bangladesh	163.8400	Gambia	141.4100	Mexico	52.5500	Spain	33.5100
Belarus	18.4000	Georgia	142.0600	Moldova	1.0800	Sri Lanka	170.4000
Belgium	42.6200	Germany	31.9500	Mongolia	51.2700	Sudan	175.4000
Benin	165.5800	Ghana	137.0000	Morocco	148.4000	Sweden	54.6700
Bolivia	60.5700	Greece	58.7900	Mozambique	201.3000	Switzerland	27.7700
Botswana	62.7500	Guatemala	272.3300	Namibia	91.9900	Syria	124.8000
Brazil	106.2000	Guinea	195.1900	Nepal	228.2000	Tajikistan	65.0700
Bulgaria	61.3000	Guinea Bis.	119.2300	Netherlands	38.6500	Tanzania	183.9000
Burkina Faso	159.6200	Hondura	320.0000	New Zealand	25.0000	Thailand	223.0000
Burundi	160.8300	Hungary	40.7000	Nicaragua	206.2000	Togo	106.7000
C. African R.	122.6400	India	277.4500	Niger	126.6000	Tunisia	93.4300
Cambodia	154.7200	Indonesia	271.0000	Nigeria	207.9000	Turkey	11.3500
Cameroon	165.6100	Iran	248.0000	Norway	24.2000	UAE	126.4700
Canada	11.4100	Ireland	24.7500	Oman	56.8700	Uganda	187.1000
Chad	101.3600	Israel	67.4400	Pakistan	135.8000	UK	19.4900
Chile	100.8700	Italy	104.5000	Panama	109.9000	Ukraine	0.1500
China	310.8200	Japan	40.0000	Papua N.G.	194.7000	Uruguay	76.3400
Colombia	120.0000	Jordan	77.1400	Paraguay	57.6900	USA	27.5000
Congo	77.7200	Kazakhstan	0.5000	Peru	139.6000	Uzbekistan	64.7100
Cote d'Ivoire	160.6600	Kenya	69.0000	Philippines	200.0000	Venezuela	53.0000
Croatia	71.0000	Kuwait	106.6000	Poland	40.8500	Vietnam	182.8000
Czech Rep.	42.3900	Kyrgyzstan	119.1200	Portugal	38.5700	Yemen	152.2000
D.R. Congo	200.3700	Laos	183.4400	Romania	82.0000	Zambia	147.0000
Denmark	32.1800	Latvia	63.8000	Russia	20.8400	Zimbabwe	144.6000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	108.5399	Min	0.1500	Std. Deviation	71.4534	5 Percentile	18.5820
Missing	0	Median	104.9300	Max	320.0000			95 Percentile	226.3800

## Normalization

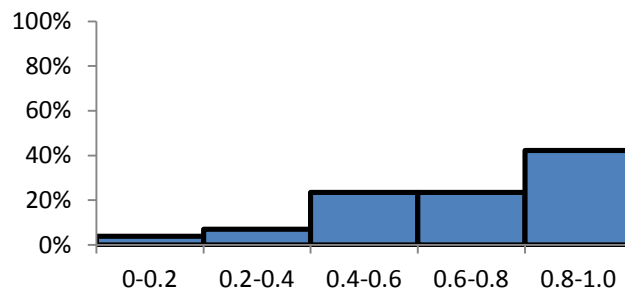
Type *SB (smaller is better)* Parameters *U=18.9200 T=320.0000*  
 Comments *T=minimum of EU-14 U=max*

## Smoothed data

Albania	0.5068	Ecuador	0.6452	Lebanon	0.7656	Rwanda	0.5616
Algeria	0.6747	Egypt	0.8165	Lithuania	0.9569	Saudi Arabia	0.8224
Angola	0.5186	El Salvador	0.5189	Macedonia, FYR	0.7764	Senegal	0.5062
Argentina	0.8967	Estonia	0.9508	Madagascar	0.3464	Sierra Leone	0.6085
Armenia	1.0000	Ethiopia	0.4147	Malawi	0.4700	Slovakia	0.8994
Australia	0.9193	Finland	0.9657	Malaysia	0.7587	Slovenia	0.9431
Austria	0.9563	France	0.9831	Mali	0.5646	South Africa	0.6912
Azerbaijan	0.7129	Gabon	0.6590	Mauritania	0.7108	South Korea	0.8435
Bangladesh	0.5187	Gambia	0.5932	Mexico	0.8883	Spain	0.9050
Belarus	1.0000	Georgia	0.5910	Moldova	1.0000	Sri Lanka	0.4969
Belgium	0.9006	Germany	0.9567	Mongolia	0.8926	Sudan	0.4803
Benin	0.5129	Ghana	0.6078	Morocco	0.5699	Sweden	0.8813
Bolivia	0.8617	Greece	0.8676	Mozambique	0.3942	Switzerland	0.9706
Botswana	0.8544	Guatemala	0.1583	Namibia	0.7573	Syria	0.6483
Brazil	0.7101	Guinea	0.4145	Nepal	0.3049	Tajikistan	0.8467
Bulgaria	0.6641	Guinea Bis.	0.6668	Netherlands	0.9345	Tanzania	0.4520
Burkina Faso	0.5327	Hondura	0.0000	New Zealand	0.9798	Thailand	0.3222
Burundi	0.5287	Hungary	0.9237	Nicaragua	0.3780	Togo	0.7084
C. African R.	0.6555	India	0.1413	Niger	0.6424	Tunisia	0.7525
Cambodia	0.5490	Indonesia	0.1627	Nigeria	0.3723	Turkey	1.0000
Cameroon	0.5128	Iran	0.2391	Norway	0.9825	UAE	0.6428
Canada	0.9863	Ireland	0.9806	Oman	0.8740	Uganda	0.4414
Chad	0.7262	Israel	0.8388	Pakistan	0.6118	UK	0.9981
Chile	0.7278	Italy	0.7158	Panama	0.6978	Ukraine	1.0000
China	0.0305	Japan	0.9300	Papua N.G.	0.4162	Uruguay	0.8093
Colombia	0.6643	Jordan	0.8066	Paraguay	0.8712	USA	0.9715
Congo	0.8047	Kazakhstan	1.0000	Peru	0.5992	Uzbekistan	0.8479
Cote d'Ivoire	0.5292	Kenya	0.8337	Philippines	0.3986	Venezuela	0.8868
Croatia	0.8270	Kuwait	0.7088	Poland	0.9272	Vietnam	0.4557
Czech Rep.	0.9221	Kyrgyzstan	0.6672	Portugal	0.9347	Yemen	0.5573
D.R. Congo	0.3973	Laos	0.4536	Romania	0.7905	Zambia	0.5746
Denmark	0.9560	Latvia	0.8509	Russia	0.8737	Zimbabwe	0.5826

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6966	Min	0.0000	Std. Deviation	0.2317	5 Percentile	0.3109
Missing	0	Median	0.7118	Max	1.0000			95 Percentile	0.9940



**Indicator: Water withdrawals****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** Pressure**Explanation:** Total annual amount of water withdrawn per amount of renewable water resources. Excessive use of water reduces water sustainability.**Sources:** World Resources Institute – Earth Trends (2002)[http://www.earthtrends.wri.org/searchable\\_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable\\_ID=299&action=select\\_years](http://www.earthtrends.wri.org/searchable_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable_ID=299&action=select_years)**Period:** 1990-2005**Units:** percent of total renewable resources**Most recent data**

Albania	3.0000	Ecuador	4.0000	Lebanon	33.0000	Rwanda	22.0000
Algeria	39.0000	Egypt	127.0000	Lithuania	1.0000	Saudi Arabia	955.0000
Angola	0.0000	El Salvador	4.0000	Macedonia, FYR	30.0000	Senegal	5.0000
Argentina	4.0000	Estonia	1.0000	Madagascar	8.0000	Sierra Leone	0.0000
Armenia	28.0000	Ethiopia	3.0000	Malawi	6.0000	Slovakia	4.0000
Australia	4.0000	Finland	2.0000	Malaysia	3.0000	Slovenia	4.0000
Austria	3.0000	France	16.0000	Mali	2.0000	South Africa	32.0000
Azerbaijan	58.0000	Gabon	0.0000	Mauritania	23.0000	South Korea	36.0000
Bangladesh	2.0000	Gambia	1.0000	Mexico	18.0000	Spain	32.0000
Belarus	5.0000	Georgia	5.0000	Moldova	25.0000	Sri Lanka	22.0000
Belgium	-	Germany	31.0000	Mongolia	1.0000	Sudan	32.0000
Benin	1.0000	Ghana	1.0000	Morocco	43.0000	Sweden	2.0000
Bolivia	0.0000	Greece	12.0000	Mozambique	0.0000	Switzerland	2.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	2.0000	Syria	55.0000
Brazil	1.0000	Guinea	0.0000	Nepal	17.0000	Tajikistan	81.0000
Bulgaria	58.0000	Guinea Bis.	0.0000	Netherlands	9.0000	Tanzania	2.0000
Burkina Faso	4.0000	Hondura	2.0000	New Zealand	1.0000	Thailand	10.0000
Burundi	4.0000	Hungary	6.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	0.0000	India	32.0000	Niger	2.0000	Tunisia	54.0000
Cambodia	0.0000	Indonesia	3.0000	Nigeria	2.0000	Turkey	17.0000
Cameroon	0.0000	Iran	59.0000	Norway	1.0000	UAE	1,614.0000
Canada	2.0000	Ireland	2.0000	Oman	181.0000	Uganda	1.0000
Chad	1.0000	Israel	108.0000	Pakistan	100.0000	UK	8.0000
Chile	3.0000	Italy	22.0000	Panama	1.0000	Ukraine	17.0000
China	20.0000	Japan	22.0000	Papua N.G.	0.0000	Uruguay	-
Colombia	0.0000	Jordan	151.0000	Paraguay	0.0000	USA	26.0000
Congo	0.0000	Kazakhstan	29.0000	Peru	1.0000	Uzbekistan	132.0000
Cote d'Ivoire	1.0000	Kenya	9.0000	Philippines	13.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	3,097.0000	Poland	20.0000	Vietnam	7.0000
Czech Rep.	21.0000	Kyrgyzstan	55.0000	Portugal	11.0000	Yemen	123.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	12.0000	Zambia	2.0000
Denmark	21.0000	Latvia	1.0000	Russia	2.0000	Zimbabwe	9.0000

**Descriptive Statistics - based on most recent data**

Available	126	Mean	63.2381	Min	0.0000	Std. Deviation	319.7240	5 Percentile	0.0000
Missing	2	Median	4.0000	Max	3,097.0000			95 Percentile	126.0000

## Normalization

Type *SB (smaller is better)* Parameters *U=13.1538* *T=63.2381*  
 Comments *T=average of EU-14* *U=average of all countries*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.6037	Rwanda	0.8234
Algeria	0.4839	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.6636	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	0.7036	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	0.9432	Mali	1.0000	South Africa	0.6237
Azerbaijan	0.1046	Gabon	1.0000	Mauritania	0.8034	South Korea	0.5438
Bangladesh	1.0000	Gambia	1.0000	Mexico	0.9032	Spain	0.6237
Belarus	1.0000	Georgia	1.0000	Moldova	0.7635	Sri Lanka	0.8234
Belgium	1.0000**	Germany	0.6437	Mongolia	1.0000	Sudan	0.6237
Benin	1.0000	Ghana	1.0000	Morocco	0.4041	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	0.1645
Brazil	1.0000	Guinea	1.0000	Nepal	0.9232	Tajikistan	0.0000
Bulgaria	0.1046	Guinea Bis.	1.0000	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Hondura	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.6237	Niger	1.0000	Tunisia	0.1845
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.9232
Cameroon	1.0000	Iran	0.0846	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	1.0000
Chad	1.0000	Israel	0.0000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	0.8234	Panama	1.0000	Ukraine	0.9232
China	0.8633	Japan	0.8234	Papua N.G.	1.0000	Uruguay	1.0000**
Colombia	1.0000	Jordan	0.0000	Paraguay	1.0000	USA	0.7435
Congo	1.0000	Kazakhstan	0.6836	Peru	1.0000	Uzbekistan	0.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	0.0000	Poland	0.8633	Vietnam	1.0000
Czech Rep.	0.8433	Kyrgyzstan	0.1645	Portugal	1.0000	Yemen	0.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	0.8433	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8177	Min	0.0000	Std. Deviation	0.3276	5 Percentile	0.0000
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000

