

Table 7 - Human development effects of environmental threats

HDI Rank	Population under-five suffering from		Impact of natural disasters		Deaths (per million people) due to					Population living on degraded land		
	Stunting	Wasting	Number of deaths	Population affected	Water pollution	Indoor air pollution	Outdoor air pollution	Malaria	Dengue			
	(%)	(%)	(average annual per million people)	(average annual per million people)								
	2000-2009 ^a	2000-2009 ^a	2001/2010	2001/2010	2004	2004	2004	2009	2001-2010 ^a	2010		
Very high human development												
1	Norway	..	..	0	33	..	..	65	..	..	0.2	^b
2	Australia	..	..	3	1,378	..	..	35	..	0	9.0	
3	Netherlands	..	..	12	0	..	..	203	..	..	5.4	
4	United States	3.9	1.3	1	6,689	..	..	138	..	..	1.1	
5	New Zealand	..	..	0	175	..	..	0	^b	..	5.3	
6	Canada	..	..	0	54	..	..	85	..	..	2.7	
7	Ireland	..	..	0	^b 11	..	..	0	^b	..	0.5	^b
8	Liechtenstein	..	..	..	..	..	..	..	..	..	..
9	Germany	1.3	1.1	12	404	..	..	124	..	..	8.1	
10	Sweden	..	..	0	0	..	..	56	..	..	0.3	
11	Switzerland	..	..	14	77	..	..	109	..	..	0.5	^b
12	Japan	..	..	1	709	..	..	196	..	..	0.3	^b
13	Hong Kong, China (SAR)	..	..	0	271	..	..	..	..	..	..
14	Iceland	..	..	..	..	..	..	0	^b	..	..
15	Korea (Republic of)	..	..	1	1,158	..	..	152	0.0	..	2.9	
16	Denmark	..	..	0	0	..	..	111	..	..	8.5	
17	Israel	..	..	1	270	..	..	216	..	..	12.9	
18	Belgium	..	..	20	31	..	..	203	..	..	10.5	
19	Austria	..	..	4	735	..	..	147	..	..	2.7	
20	France	..	..	34	891	..	..	81	..	..	3.9	
21	Slovenia	..	..	15	52	..	..	150	..	..	8.4	
22	Finland	..	..	0	7	..	..	19	..	..	0.0	^b
23	Spain	..	..	33	14	..	..	136	..	..	1.4	
24	Italy	..	..	33	29	..	..	137	..	..	2.2	
25	Luxembourg	..	..	34	0	..	..	..	..	..	..
26	Singapore	4.4	3.3	..	..	..	..	264	..	5	..	
27	Czech Republic	2.6	2.1	5	2,098	..	..	167	..	..	4.2	
28	United Kingdom	..	..	1	617	..	..	189	..	..	2.7	
29	Greece	..	..	1	112	..	..	224	..	..	1.1	
30	United Arab Emirates	..	..	..	..	..	..	55	..	..	1.9	
31	Cyprus	..	..	0	4	..	..	197	..	..	11.4	
32	Andorra	..	..	..	..	..	..	..	..	..	..
33	Brunei Darussalam	..	..	..	..	..	..	..	..	..	..
34	Estonia	..	..	0	7	..	0	^b 74	..	..	5.0	
35	Slovakia	..	..	2	212	..	..	74	..	..	9.1	
36	Malta	..	..	..	..	..	..	..	..	..	..
37	Qatar	..	..	..	..	..	..	0	^b	..	0.1	^b
38	Hungary	..	..	7	467	..	..	208	..	..	17.1	
39	Poland	..	..	3	318	..	..	162	..	..	13.2	
40	Lithuania	..	..	1	0	..	..	204	..	..	4.8	
41	Portugal	..	..	26	1,418	..	..	190	..	..	2.3	
42	Bahrain	..	..	..	..	..	..	0	^b	..	..
43	Latvia	..	..	3	0	..	..	0	^b	..	1.8	
44	Chile	2.0	0.5	1	3,051	12	..	149	..	0	1.1	
45	Argentina	8.2	2.3	0	1,790	8	..	342	0.0	0	1.7	
46	Croatia	..	..	18	59	..	0	^b 225	..	..	17.5	
47	Barbados	..	..	0	1,968	..	..	..	..	0	..	
High human development												
48	Uruguay	13.9	6.0	1	4,548	..	0	^b 422	..	0	5.7	
49	Palau	..	..	..	..	..	..	..	..	49	..	
50	Romania	12.8	3.5	3	764	..	18	439	..	..	13.5	
51	Cuba	4.6	3.9	0	87,392	18	53	160	..	0	17.0	
52	Seychelles	..	..	0	7,860	..	..	..	..	..	..
53	Bahamas	..	..	4	5,979	..	..	..	0.0	0	..	
54	Montenegro	7.9	2.2	0	1,249	..	..	..	..	..	8.0	
55	Bulgaria	8.8	1.6	1	179	..	0	^b 437	..	..	7.8	
56	Saudi Arabia	9.3	5.3	1	86	..	..	108	0.0	..	4.3	
57	Mexico	15.5	3.4	1	7,097	43	41	88	0.0	0	3.8	
58	Panama	19.1	3.9	2	3,612	63	63	63	0.0	0	4.1	
59	Serbia	8.1	1.8	0	213	..	..	..	..	..	18.5	
60	Antigua and Barbuda	..	..	0	34,720	0	..	..	..	0	..	
61	Malaysia	..	..	0	1,573	35	0	^b 23	0.0	4	1.2	
62	Trinidad and Tobago	5.3	4.4	0	131	..	0	^b 0	^b	9	..	
63	Kuwait	..	..	..	..	..	..	137	..	..	0.6	
64	Libyan Arab Jamahiriya	21.0	5.6	..	..	..	0	^b 318	..	..	8.5	
65	Belarus	4.5	1.3	0	19	..	10	..	..	..	4.7	
66	Russian Federation	..	..	40	1,332	5	4	231	0.0	^c	3.1	
67	Grenada	..	..	38	59,003	..	..	..	..	0	..	
68	Kazakhstan	17.5	4.9	1	442	193	7	159	..	..	23.5	
69	Costa Rica	..	..	2	7,367	24	47	47	0.2	0	1.3	
70	Albania	27.0	6.6	0	19,215	32	0	^b 64	..	..	5.7	
71	Lebanon	16.5	4.2	0	^b 414	50	..	100	..	..	1.2	
72	Saint Kitts and Nevis	..	..	..	..	..	..	..	..	0	..	
73	Venezuela (Bolivarian Republic of)	15.6	3.7	1	704	61	8	..	0.0	0	1.9	
74	Bosnia and Herzegovina	11.8	1.6	0	10,673	..	0	^b 79	..	..	6.1	
75	Georgia	14.7	2.3	0	^b 94	89	44	288	0.0	..	1.9	
76	Ukraine	22.9	4.1	2	1,421	2	6	305	..	..	6.2	
77	Mauritius	..	..	0	81	..	..	80	..	..	..
78	The former Yugoslav Republic of Macedonia	11.5	1.8	2	53,874	..	0	^b 148	..	..	7.1	
79	Jamaica	3.7	2.2	3	15,757	75	188	75	0.0	0	3.3	
80	Peru	29.8	5.4	6	20,752	92	37	117	0.1	0	0.7	
81	Dominica	..	..	7	11,372	..	..	..	..	0	..	
82	Saint Lucia	..	..	6	1,721	..	..	..	..	0	..	
83	Ecuador	29.0	6.2	1	3,769	83	0	^b 38	0.0	0	1.6	
84	Brazil	7.1	2.2	1	3,440	137	58	74	0.4	0	7.9	
85	Saint Vincent and the Grenadines	..	..	4	918	..	..	0	^b	0	..	

86	Armenia	18.2	4.2	0	0	33	131	882	0.0	..	9.6
87	Colombia	16.2	5.1	4	14,482	50	57	61	0.3	0	2.0
88	Iran (Islamic Republic of)	..	..	1	2,156	..	4	132	0.0	..	25.1
89	Oman	..	..	5	722	..	..	126	0.7	..	5.8
90	Tonga	..	..	0	15,857	..	..	..	..	..	..
91	Azerbaijan	26.8	8.4	0	1,159	212	130	177	0.0	..	3.8
92	Turkey	15.6	3.5	0	224	97	51	299	0.0	^c	5.5
93	Belize	22.2	4.9	13	28,239	..	..	..	0.0	0	1.1
94	Tunisia	9.0	3.3	0	320	82	10	82	..	..	36.7
Medium human development											
95	Jordan	12.0	3.6	0	0	77	..	134	..	..	22.0
96	Algeria	15.9	3.7	4	564	247	12	65	0.0	..	28.8
97	Sri Lanka	17.3	21.1	2	22,652	41	219	51	0.0	2	21.1
98	Dominican Republic	10.1	3.4	9	3,480	142	33	88	1.4	1	7.0
99	Samoa	..	..	5	0	..	0	^b	..	..	..
100	Fiji	..	..	8	10,511	0	^b	0	^b	0	..
101	China	21.8	6.8	1	93,151	42	422	230	0.0	^c	8.6
102	Turkmenistan	..	..	..	..	532	..	170	0.0	..	11.1
103	Thailand	15.7	7.0	2	58,220	121	159	61	1.0	1	17.0
104	Suriname	..	..	1	6,013	0	^b	..	0.0	0	..
105	El Salvador	24.6	6.1	7	9,436	116	50	50	0.0	0	6.3
106	Gabon	26.3	8.8	0	149	298	74	..	133.3	..	..
107	Paraguay	..	..	0	7,307	86	52	86	0.0	1	1.3
108	Bolivia (Plurinational State of)	27.1	4.3	5	18,429	378	145	111	0.0	0	2.0
109	Maldives	31.9	25.7	0	522	0	^b	0	^b	0	..
110	Mongolia	27.5	5.3	4	59,135	199	119	..	..	..	31.5
111	Moldova (Republic of)	11.3	3.2	1	6,532	0	^b	78	261	..	21.8
112	Philippines	33.8	20.7	10	48,370	182	86	54	0.3	5	2.2
113	Egypt	30.7	6.8	0	5	137	8	213	0.0	^c	25.3
114	Occupied Palestinian Territory	..	..	0	12	..	..	..	..	..	..
115	Uzbekistan	19.6	4.4	0	5	335	241	148	0.0	..	27.0
116	Micronesia (Federated States of)	..	..	43	7,771	0	^b	..	..	..	..
117	Guyana	18.2	10.8	5	54,311	269	0	^b	0.0	0	..
118	Botswana	29.1	10.7	0	499	486	270	0	^b	3.0	22.0
119	Syrian Arab Republic	28.6	10.0	1	6,371	89	39	100	0.0	..	33.3
120	Namibia	29.6	17.5	7	40,481	98	49	0	^b	20.5	28.5
121	Honduras	29.9	8.6	4	13,628	178	119	89	0.1	1	15.0
122	Kiribati	..	..	0	85	..	..	..	..	..	..
123	South Africa	..	..	1	30,398	260	68	23	0.9	..	17.5
124	Indonesia	40.1	19.6	2	1,364	141	202	144	3.8	5	3.1
125	Vanuatu	..	..	2	24,519	0	0	..	8.6	..	..
126	Kyrgyzstan	18.1	2.7	2	37,899	259	418	80	0.0	..	9.7
127	Tajikistan	33.1	14.9	3	47,642	751	516	47	0.0	..	10.5
128	Viet Nam	30.5	20.2	3	19,794	72	289	81	0.3	1	8.0
129	Nicaragua	18.8	4.3	7	11,487	168	131	19	0.0	2	13.9
130	Morocco	23.1	9.9	1	419	140	17	30	0.0	^c	39.1
131	Guatemala	54.3	17.7	14	26,888	314	113	40	0.0	0	9.1
132	Iraq	27.5	7.1	0	226	879	23	387	0.0	..	4.5
133	Cape Verde	..	..	1	6,048	214	0	^b	0	4.1	..
134	India	47.9	43.5	2	41,245	405	435	107	0.9	0	9.6
135	Ghana	28.6	14.3	1	2,925	961	308	33	141.8	..	1.4
136	Equatorial Guinea	35.0	10.6	..	..	1,187	..	..	33.8	..	..
137	Congo	31.2	11.8	0	2,102	435	290	145	29.4	..	0.1
138	Lao People's Democratic Republic	47.6	31.6	1	15,096	406	459	0	^b	0.8	4.1
139	Cambodia	39.5	28.8	1	34,829	826	500	23	20.0	1	39.3
140	Swaziland	29.5	6.1	0	117,337	456	274	0	^b	11.1	..
141	Bhutan	37.5	12.0	2	0	467	311	..	5.6	0	0.1
Low human development											
142	Solomon Islands	32.8	11.5	4	4,672	219	219	..	101.1	..	..
143	Kenya	35.8	16.5	2	27,446	683	412	17	0.0	..	31.0
144	Sao Tome and Principe	29.3	13.1	..	..	665	0	^b	141.5	..	..
145	Pakistan	41.5	31.3	3	18,218	380	360	192	0.0	..	4.5
146	Bangladesh	43.2	41.3	6	47,203	469	356	68	0.3	0	11.3
147	Timor-Leste	55.7	40.6	0	1,177	308	..	..	48.2	35	..
148	Angola	50.8	27.5	2	4,989	3,014	2,099	169	567.5	..	3.3
149	Myanmar	40.6	29.6	290	6,551	432	393	96	20.4	3	19.2
150	Cameroon	36.4	16.6	0	204	1,066	664	128	257.8	..	15.3
151	Madagascar	52.8	36.8	5	17,121	1,175	732	35	8.6	..	0.0
152	Tanzania (United Republic of)	44.4	16.7	0	13,270	865	500	32	18.8	..	25.0
153	Papua New Guinea	43.9	18.1	4	3,987	471	269	..	90.1	0	..
154	Yemen	57.7	43.1	2	135	734	335	55	1.6	..	32.4
155	Senegal	20.1	14.5	0	7,377	1,219	595	170	47.4	..	16.2
156	Nigeria	41.0	26.7	0	1,295	1,304	699	136	48.7	..	11.5
157	Nepal	49.3	38.8	7	9,738	520	326	30	0.3	0	2.3
158	Haiti	29.7	18.9	66	12,565	619	402	65	0.0	..	15.2
159	Mauritania	24.2	16.7	1	41,693	776	405	67	26.9	..	23.8
160	Lesotho	45.2	16.6	0	45,203	195	98	0	^b	..	63.6
161	Uganda	38.7	16.4	2	9,460	988	716	4	194.5	..	23.5
162	Togo	26.9	20.5	1	4,972	908	605	38	263.6	..	5.1
163	Comoros	46.9	25.0	0	381	479	160	0	^b	0.0	..
164	Zambia	45.8	14.9	1	32,196	1,135	777	98	303.5	..	4.6
165	Djibouti	32.6	29.6	6	82,450	630	0	^b	252	0.0	7.5
166	Rwanda	51.7	18.0	1	9,919	1,854	1,387	33	78.5	..	10.1
167	Benin	44.7	20.2	1	12,662	1,271	770	54	159.9	..	1.6
168	Gambia	27.6	15.8	1	4,106	753	411	137	142.7	..	17.9
169	Sudan	37.9	31.7	1	13,909	477	371	141	32.9	..	39.9
170	Côte d'Ivoire	40.1	16.7	0	96	1,246	705	51	938.3	..	1.3
171	Malawi	53.2	15.5	4	64,924	1,459	1,042	48	451.9	..	19.4
172	Afghanistan	59.3	32.9	11	9,799	2,499	2,023	15	1.0	..	11.0
173	Zimbabwe	35.8	14.0	0	78,319	532	302	48	1.1	..	29.4
174	Ethiopia	50.7	34.6	2	35,049	1,546	998	^b	34	13.8	72.3
175	Mali	38.5	27.9	0	11,678	1,769	1,198	78	156.3	..	59.5
176	Guinea-Bissau	28.1	17.2	0	12,575	2,088	1,268	149	248.6	..	1.0
177	Eritrea	43.7	34.5	0	32,492	741	440	46	4.5	..	58.8
178	Guinea	40.0	20.8	0	3,355	1,080	641	67	60.0	..	0.8
179	Central African Republic	44.6	21.8	0	1,696	1,088	759	0	^b	154.5	..

180	Sierra Leone	37.4	21.3	3	361	3,271	2,181	141	302.1	..	..
181	Burkina Faso	44.5	37.4	1	2,723	1,733	1,197	87	499.4	..	73.2
182	Liberia	39.4	20.4	0	924	2,134	1,261	32	444.7	..	..
183	Chad	44.8	33.9	2	33,141	1,509	1,013	84	20.2	..	45.4
184	Mozambique	47.0	21.2	1	25,059	840	548	44	163.9	..	1.9
185	Burundi	63.1	38.9	2	29,916	2,088	1,449	43	87.4	..	18.5
186	Niger	54.8	39.9	0	96,596	3,212	2,192	80	144.2	..	25.0
187	Congo (Democratic Republic of the)	45.8	28.2	0	325	1,924	1,356	72	329.7	..	0.1
Other countries or territories											
	Korea (Democratic People's Rep. of)	43.1	20.6	5	7,513	191	..	242	0.0	..	2.9
	Marshall Islands	..	..	0	1,110	..	..	..	..	0	..
	Monaco	..	..	..	..	..	..	..	..	..	..
	Nauru	..	..	..	..	..	..	..	..	..	..
	San Marino	..	..	..	..	..	..	..	..	..	..
	Somalia	42.1	32.8	2	69,471	2,068	1,383	36	4.9	..	26.3
	Tuvalu	10.0	1.6	..	..	..	..	..	..	..	..
	Very high human development	..	..	8	2,331	..	..	150	..	..	3.2
	High human development	..	..	7	4,890	..	..	159	..	..	7.4
	Medium human development	35.7	24.7	2	54,444	212	357	156	1.8	..	10.0
	Low human development	43.8	28.3	14	19,221	1,035	696	91	92.5	..	18.8
	Arab States	29.8	15.2	1	4,529	..	..	146	..	..	24.9
	East Asia and the Pacific	..	..	9	69,648	84	..	..	..	..	..
	Europe and Central Asia	..	..	13	2,357	..	..	240	..	..	8.6
	Latin America and the Caribbean	15.8	4.4	3	8,741	104	..	103	0.2	0	5.3
	South Asia	46.8	41.2	2	36,336	443	424	109	0.7	0	9.9
	Sub-Saharan Africa	42.9	24.5	1	16,966	1,286	798	70	143.7	..	22.1
	Least developed countries	45.5	29.6	20	23,357	1,151	794	63	99.0	..	23.3
	Small island developing states	..	..	16	25,300	..	..	..	..	..	..
	World	..	..	6	32,575	..	..	145	..	..	10.1

NOTES

a. Data refer to the most recent year available during the period specified.

b. Less than 1.

c. Less than 0.05.

DEFINITIONS

Population under age 5 suffering from stunting: Percentage of children under age 5 falling two standard deviations or more below the median height-for-age of the reference population.

Population under age 5 suffering from wasting: Percentage of children under age 5 falling two standard deviations or more below the median weight-for-height of the reference population.

Number of deaths due to natural disasters: People confirmed as dead, or missing and presumed dead, as a result of natural disasters, which include drought, extreme temperature, flood, mass movement, wet storm and wildfire.

Population affected by natural disasters: People requiring immediate assistance during a period of emergency as a result of a natural disaster (as defined above), including displaced, evacuated, homeless and injured people.

Deaths due to water pollution: Deaths due to diarrhoea attributable to poor water, sanitation or hygiene.

Deaths due to indoor air pollution: Deaths due to acute respiratory infections (children under age 5), chronic obstructive pulmonary disease (adults over age 30) and lung cancer (adults over age 30) attributable to indoor smoke from solid fuels.

Deaths due to outdoor air pollution: Deaths due to respiratory infections and diseases, lung cancer and selected cardiovascular diseases attributable to outdoor air pollution.

Deaths due to malaria: Deaths due to malaria.

Deaths due to dengue: Deaths due to dengue fever, dengue haemorrhagic fever and dengue shock syndrome.

Population living on degraded land: Percentage of the population living on severely and very severely degraded land. Land degradation estimates consider biomass, soil health, water quantity and biodiversity, and range in severity.

MAIN DATA SOURCES

Columns 1 and 2: WHO (2010b).

Columns 3 and 4: WHO Collaborating Centre for Research on the Epidemiology of Disasters (2011) and UNDESA (2011).

Columns 5–7: HDRO calculations based on WHO (2009) and UNDESA (2011).

Column 8: WHO (2010c).

Column 9: HDRO calculations based on WHO (2011) and UNDESA (2011).

Column 10: FAO (2011b).