

Planetary pressures-adjusted Human Development Index

HDI RANK	Human Development Index (HDI)	Planetary pressures-adjusted HDI (PHDI)			Adjustment factor for planetary pressures	SDG 9.4 Carbon dioxide emissions per capita (production)	Carbon dioxide emissions (production) index	SDG 8.4, 12.2 Material footprint per capita	Material footprint index	
	Value	Value	Difference from HDI value (%)	Difference from HDI rank	Value	(tonnes)	Value	(tonnes)	Value	
	2019	2019	2019	2019 ^a	2019	2018	2018	2017	2017	
Very high human development										
1	Norway	0.957	0.781	18.4	-15	0.816	8.3	0.881	37.9	0.752
2	Ireland	0.955	0.833	12.8	1	0.872	8.1	0.884	21.5	0.859
2	Switzerland	0.955	0.825	13.6	0	0.864	4.3	0.938	32.1	0.790
4	Hong Kong, China (SAR)	0.949	..	..	..	..	5.9	0.916	..	..
4	Iceland	0.949	0.768	19.1	-26	0.809	10.8	0.846	34.8	0.772
6	Germany	0.947	0.814	14.0	-1	0.859	9.1	0.869	23.0	0.849
7	Sweden	0.945	0.817	13.5	1	0.865	4.1	0.941	32.2	0.789
8	Australia	0.944	0.696	26.3	-72	0.737	16.9	0.758	43.4	0.716
8	Netherlands	0.944	0.794	15.9	-6	0.842	9.5	0.864	27.7	0.819
10	Denmark	0.940	0.824	12.3	5	0.876	6.1	0.913	24.6	0.839
11	Finland	0.938	0.770	17.9	-19	0.821	8.5	0.878	36.1	0.763
11	Singapore	0.938	0.656	30.1	-92	0.700	7.1	0.898	76.1	0.501
13	United Kingdom	0.932	0.825	11.5	10	0.885	5.6	0.919	22.7	0.851
14	Belgium	0.931	0.800	14.1	4	0.859	8.7	0.876	24.1	0.842
14	New Zealand	0.931	0.808	13.2	6	0.867	7.3	0.895	24.5	0.840
16	Canada	0.929	0.721	22.4	-40	0.776	15.3	0.781	34.9	0.771
17	United States	0.926	0.718	22.5	-45	0.775	16.6	0.763	32.5	0.787
18	Austria	0.922	0.771	16.4	-11	0.837	7.7	0.889	32.9	0.784
19	Israel	0.919	0.797	13.3	7	0.867	7.7	0.890	23.9	0.843
19	Japan	0.919	0.781	15.0	2	0.850	9.1	0.869	25.9	0.830
19	Liechtenstein	0.919	..	..	..	..	4.0	0.942	..	..
22	Slovenia	0.917	0.800	12.8	11	0.873	6.9	0.901	23.7	0.845
23	Korea (Republic of)	0.916	0.746	18.6	-19	0.814	12.9	0.816	28.6	0.813
23	Luxembourg	0.916	0.495	46.0	-131	0.541	15.9	0.773	105.6	0.308
25	Spain	0.904	0.795	12.1	11	0.880	5.7	0.918	24.1	0.842
26	France	0.901	0.801	11.1	16	0.889	5.2	0.926	22.5	0.853
27	Czechia	0.900	0.768	14.7	-5	0.853	9.9	0.858	23.0	0.849
28	Malta	0.895	0.794	11.3	13	0.887	3.6	0.948	26.5	0.826
29	Estonia	0.892	0.711	20.3	-40	0.797	14.8	0.788	29.6	0.806
29	Italy	0.892	0.792	11.2	12	0.888	5.6	0.920	21.9	0.857
31	United Arab Emirates	0.890	0.609	31.6	-87	0.685	21.3	0.694	49.6	0.675
32	Greece	0.888	0.768	13.5	0	0.865	7.0	0.899	25.8	0.831
33	Cyprus	0.887	0.767	13.5	-2	0.865	6.3	0.910	27.5	0.820
34	Lithuania	0.882	0.746	15.4	-8	0.846	4.8	0.931	36.3	0.762
35	Poland	0.880	0.752	14.5	-5	0.855	9.1	0.870	24.5	0.839
36	Andorra	0.868	..	..	..	..	6.1	0.912	..	..
37	Latvia	0.866	0.777	10.3	9	0.897	3.7	0.947	23.2	0.848
38	Portugal	0.864	0.780	9.7	15	0.903	5.0	0.929	18.7	0.878
39	Slovakia	0.860	0.720	16.3	-21	0.837	6.6	0.905	35.3	0.769
40	Hungary	0.854	0.781	8.5	21	0.915	5.1	0.926	14.9	0.903
40	Saudi Arabia	0.854	0.707	17.2	-33	0.827	18.4	0.736	12.4	0.919
42	Bahrain	0.852	0.691	18.9	-42	0.811	19.8	0.717	14.4	0.906
43	Chile	0.851	0.774	9.0	14	0.910	4.6	0.934	17.5	0.885
43	Croatia	0.851	0.779	8.5	19	0.916	4.5	0.936	16.0	0.895
45	Qatar	0.848	0.581	31.5	-84	0.685	38.0	0.456	13.2	0.913
46	Argentina	0.845	0.778	7.9	20	0.920	4.4	0.937	14.7	0.904
47	Brunei Darussalam	0.838	0.672	19.8	-49	0.802	18.5	0.735	20.0	0.869
48	Montenegro	0.829	0.738	11.0	-1	0.890	3.2	0.954	26.7	0.825
49	Romania	0.828	0.760	8.2	11	0.917	3.8	0.946	16.9	0.889
50	Palau	0.826	..	..	..	..	13.2	0.811	..	..
51	Kazakhstan	0.825	0.672	18.5	-46	0.815	17.6	0.749	18.1	0.881
52	Russian Federation	0.824	0.728	11.7	-4	0.883	11.7	0.832	9.9	0.935
53	Belarus	0.823	0.781	5.1	33	0.949	6.9	0.901	0.4	0.997
54	Turkey	0.820	0.746	9.0	10	0.910	5.2	0.926	16.2	0.894
55	Uruguay	0.817	0.704	13.8	-20	0.862	2.0	0.971	37.7	0.753
56	Bulgaria	0.816	0.745	8.7	9	0.913	6.3	0.910	12.8	0.916
57	Panama	0.815	0.778	4.5	30	0.955	2.6	0.963	8.0	0.947
58	Bahamas	0.814	0.733	10.0	6	0.900	4.7	0.933	20.2	0.868
58	Barbados	0.814	0.758	6.9	18	0.932	4.5	0.936	11.1	0.927

Continued -

HDI RANK	Human Development Index (HDI)	Planetary pressures-adjusted HDI (PHDI)			Adjustment factor for planetary pressures	SDG 9.4 Carbon dioxide emissions per capita (production)	Carbon dioxide emissions (production) index	SDG 8.4, 12.2 Material footprint per capita	Material footprint index	
	Value	Value	Difference from HDI value (%)	Difference from HDI rank	Value	(tonnes)	Value	(tonnes)		
	2019	2019	2019	2019 ^a	2019	2018	2018	2017		
60	Oman	0.813	0.704	13.4	-15	0.866	13.9	0.801	10.4	0.932
61	Georgia	0.812	0.772	4.9	30	0.951	2.6	0.962	9.1	0.940
62	Costa Rica	0.810	0.779	3.8	37	0.961	1.6	0.977	8.3	0.946
62	Malaysia	0.810	0.699	13.7	-18	0.863	8.1	0.884	24.2	0.842
64	Kuwait	0.806	0.547	32.1	-74	0.678	23.7	0.661	46.5	0.696
64	Serbia	0.806	0.732	9.2	10	0.908	5.2	0.926	16.7	0.891
66	Mauritius	0.804	0.727	9.6	9	0.904	3.8	0.945	20.8	0.864
High human development										
67	Seychelles	0.796	0.699	12.2	-13	0.879	6.7	0.903	22.3	0.854
67	Trinidad and Tobago	0.796	0.603	24.2	-54	0.758	31.3	0.552	5.6	0.963
69	Albania	0.795	0.756	4.9	28	0.951	1.6	0.977	11.4	0.925
70	Cuba	0.783	0.749	4.3	27	0.957	2.5	0.964	7.8	0.949
70	Iran (Islamic Republic of)	0.783	0.698	10.9	-12	0.891	8.8	0.874	14.1	0.908
72	Sri Lanka	0.782	0.765	2.2	34	0.979	1.1	0.984	4.1	0.973
73	Bosnia and Herzegovina	0.780	0.718	7.9	8	0.920	6.5	0.907	10.2	0.933
74	Grenada	0.779	..	..	..	..	2.4	0.965	..	..
74	Mexico	0.779	0.733	5.9	22	0.941	3.8	0.946	9.8	0.936
74	Saint Kitts and Nevis	0.779	..	..	..	..	4.6	0.934	..	..
74	Ukraine	0.779	0.720	7.6	13	0.924	5.1	0.927	12.1	0.920
78	Antigua and Barbuda	0.778	0.713	8.4	7	0.917	5.9	0.916	12.5	0.918
79	Peru	0.777	0.743	4.4	28	0.956	1.7	0.975	9.6	0.937
79	Thailand	0.777	0.716	7.9	9	0.921	4.2	0.941	15.0	0.902
81	Armenia	0.776	0.745	4.0	32	0.960	1.9	0.973	8.2	0.947
82	North Macedonia	0.774	0.720	7.0	19	0.930	3.5	0.950	13.8	0.910
83	Colombia	0.767	0.729	5.0	26	0.951	2.0	0.972	10.7	0.930
84	Brazil	0.765	0.710	7.2	10	0.927	2.2	0.969	17.4	0.886
85	China	0.761	0.671	11.8	-16	0.881	7.0	0.899	20.9	0.863
86	Ecuador	0.759	0.718	5.4	19	0.947	2.5	0.965	11.0	0.928
86	Saint Lucia	0.759	..	..	..	..	2.3	0.967	..	..
88	Azerbaijan	0.756	0.720	4.8	24	0.953	3.7	0.947	6.3	0.959
88	Dominican Republic	0.756	0.727	3.8	28	0.962	2.3	0.967	6.6	0.957
90	Moldova (Republic of)	0.750	0.734	2.1	36	0.979	1.3	0.982	3.8	0.975
91	Algeria	0.748	0.721	3.6	29	0.963	3.7	0.947	3.1	0.980
92	Lebanon	0.744	0.688	7.5	-2	0.924	3.5	0.949	15.4	0.899
93	Fiji	0.743	0.713	4.0	21	0.959	2.4	0.966	7.2	0.953
94	Dominica	0.742	..	..	..	..	2.5	0.964	..	..
95	Maldives	0.740	0.689	6.9	1	0.931	3.0	0.958	14.5	0.905
95	Tunisia	0.740	0.710	4.1	19	0.960	2.7	0.961	6.3	0.959
97	Saint Vincent and the Grenadines	0.738	..	..	..	..	2.0	0.971	..	..
97	Suriname	0.738	0.687	6.9	1	0.931	3.1	0.956	14.2	0.907
99	Mongolia	0.737	0.657	10.9	-10	0.891	8.9	0.873	13.9	0.909
100	Botswana	0.735	0.637	13.3	-18	0.867	3.0	0.958	34.1	0.776
101	Jamaica	0.734	0.700	4.6	18	0.954	2.8	0.960	7.9	0.948
102	Jordan	0.729	0.700	4.0	19	0.961	2.4	0.965	6.7	0.956
103	Paraguay	0.728	0.686	5.8	5	0.943	1.1	0.985	15.1	0.901
104	Tonga	0.725	..	..	..	..	1.3	0.981	..	..
105	Libya	0.724	0.673	7.0	3	0.929	8.1	0.884	3.9	0.974
106	Uzbekistan	0.720	0.691	4.0	15	0.960	2.8	0.960	6.0	0.960
107	Bolivia (Plurinational State of)	0.718	0.695	3.2	17	0.968	2.0	0.972	5.5	0.964
107	Indonesia	0.718	0.691	3.8	16	0.963	2.3	0.967	6.3	0.959
107	Philippines	0.718	0.701	2.4	24	0.977	1.3	0.982	4.4	0.971
110	Belize	0.716	0.690	3.6	16	0.964	1.5	0.979	7.8	0.949
111	Samoa	0.715	0.690	3.5	17	0.965	1.3	0.981	7.9	0.948
111	Turkmenistan	0.715	0.595	16.8	-18	0.832	13.7	0.805	21.5	0.859
113	Venezuela (Bolivarian Republic of)	0.711	0.670	5.8	7	0.942	4.8	0.931	7.3	0.952
114	South Africa	0.709	0.648	8.6	-1	0.914	8.1	0.884	8.5	0.945
115	Palestine, State of	0.708	..	..	..	..	0.7	0.991	..	..
116	Egypt	0.707	0.684	3.3	15	0.967	2.4	0.965	4.8	0.968
117	Marshall Islands	0.704	..	..	..	..	2.6	0.963	..	..
117	Viet Nam	0.704	0.664	5.7	7	0.943	2.2	0.969	12.7	0.917
119	Gabon	0.703	0.680	3.3	16	0.967	2.5	0.964	4.5	0.971
Medium human development										
120	Kyrgyzstan	0.697	0.669	4.0	11	0.960	1.6	0.977	8.7	0.943
121	Morocco	0.686	0.668	2.6	11	0.974	1.8	0.974	3.9	0.975
122	Guyana	0.682	..	..	..	..	3.1	0.955	.. ^b	..
123	Iraq	0.674	0.642	4.7	3	0.953	5.3	0.924	2.8	0.982
124	El Salvador	0.673	0.654	2.8	8	0.972	1.1	0.984	6.3	0.959
125	Tajikistan	0.668	0.657	1.6	12	0.984	0.6	0.991	3.7	0.976

Continued -

HDI RANK	Human Development Index (HDI)	Planetary pressures-adjusted HDI (PHDI)				Adjustment factor for planetary pressures	SDG 9.4 Carbon dioxide emissions per capita (production)	Carbon dioxide emissions (production) index	SDG 8.4, 12.2 Material footprint per capita	Material footprint index
	Value	Value	Difference from HDI value (%)	Difference from HDI rank	Value	(tonnes)	Value	(tonnes)	Value	
	2019	2019	2019	2019 ^a	2019	2018	2018	2017	2017	
126	Cabo Verde	0.665	0.641	3.6	5	0.964	1.2	0.983	8.6	0.944
127	Guatemala	0.663	0.650	2.0	10	0.980	1.1	0.985	3.9	0.975
128	Nicaragua	0.660	0.647	2.0	9	0.980	0.9	0.988	4.3	0.972
129	Bhutan	0.654	0.624	4.6	4	0.954	1.6	0.977	10.4	0.932
130	Namibia	0.646	0.621	3.9	4	0.961	1.7	0.975	8.2	0.946
131	India	0.645	0.626	2.9	8	0.971	2.0	0.972	4.6	0.970
132	Honduras	0.634	0.621	2.1	6	0.980	1.0	0.985	4.0	0.974
133	Bangladesh	0.632	0.625	1.1	9	0.988	0.5	0.992	2.4	0.985
134	Kiribati	0.630	..	..	..	..	0.6	0.991	..	..
135	Sao Tome and Principe	0.625	0.610	2.4	6	0.976	0.6	0.992	5.9	0.961
136	Micronesia (Federated States of)	0.620	..	..	..	..	1.3	0.981	..	..
137	Lao People's Democratic Republic	0.613	0.586	4.4	-2	0.956	2.7	0.961	7.5	0.951
138	Eswatini (Kingdom of)	0.611	0.587	3.9	0	0.961	1.1	0.985	9.6	0.937
138	Ghana	0.611	0.601	1.6	5	0.984	0.6	0.991	3.6	0.977
140	Vanuatu	0.609	0.592	2.8	3	0.971	0.5	0.992	7.6	0.950
141	Timor-Leste	0.606	..	..	..	..	0.4	0.994	..	..
142	Nepal	0.602	0.595	1.2	7	0.988	0.3	0.995	2.8	0.982
143	Kenya	0.601	0.594	1.2	6	0.988	0.4	0.995	3.0	0.980
144	Cambodia	0.594	0.584	1.7	3	0.984	0.6	0.991	3.6	0.976
145	Equatorial Guinea	0.592	..	..	..	..	4.3	0.938	..	..
146	Zambia	0.584	0.576	1.4	1	0.986	0.3	0.996	3.5	0.977
147	Myanmar	0.583	0.578	0.9	3	0.992	0.5	0.993	1.4	0.991
148	Angola	0.581	0.570	1.9	2	0.981	1.1	0.984	3.4	0.978
149	Congo	0.574	0.567	1.2	2	0.988	0.6	0.991	2.2	0.986
150	Zimbabwe	0.571	0.562	1.6	2	0.983	0.8	0.988	3.2	0.979
151	Solomon Islands	0.567	..	..	..	..	0.3	0.996	..	..
151	Syrian Arab Republic	0.567	0.554	2.3	1	0.977	1.7	0.976	3.4	0.978
153	Cameroon	0.563	0.558	0.9	3	0.991	0.3	0.995	1.9	0.987
154	Pakistan	0.557	0.547	1.8	2	0.982	1.1	0.985	3.2	0.979
155	Papua New Guinea	0.555	0.547	1.4	3	0.985	0.9	0.987	2.6	0.983
156	Comoros	0.554	..	..	..	..	0.3	0.996	..	..
Low human development										
157	Mauritania	0.546	0.539	1.3	1	0.987	0.6	0.991	2.5	0.984
158	Benin	0.545	0.535	1.8	-1	0.981	0.6	0.991	4.4	0.971
159	Uganda	0.544	0.539	0.9	3	0.991	0.1	0.998	2.5	0.983
160	Rwanda	0.543	0.537	1.1	2	0.989	0.1	0.999	3.1	0.980
161	Nigeria	0.539	0.532	1.3	0	0.987	0.6	0.991	2.7	0.982
162	Côte d'Ivoire	0.538	0.535	0.6	3	0.995	0.3	0.995	0.9	0.994
163	Tanzania (United Republic of)	0.529	0.526	0.6	1	0.994	0.2	0.997	1.4	0.991
164	Madagascar	0.528	0.526	0.4	2	0.996	0.2	0.998	0.8	0.994
165	Lesotho	0.527	0.503	4.6	-4	0.954	1.3	0.982	11.4	0.925
166	Djibouti	0.524	0.518	1.1	2	0.988	0.7	0.990	2.3	0.985
167	Togo	0.515	0.509	1.2	2	0.989	0.4	0.994	2.5	0.984
168	Senegal	0.512	0.505	1.4	0	0.987	0.7	0.989	2.4	0.984
169	Afghanistan	0.511	0.508	0.6	3	0.994	0.3	0.996	1.2	0.992
170	Haiti	0.510	0.507	0.6	3	0.994	0.3	0.996	1.4	0.991
170	Sudan	0.510	0.500	2.0	0	0.980	0.5	0.993	5.0	0.967
172	Gambia	0.496	0.491	1.0	0	0.990	0.3	0.996	2.3	0.985
173	Ethiopia	0.485	0.483	0.4	0	0.997	0.1	0.998	0.8	0.995
174	Malawi	0.483	0.481	0.4	0	0.996	0.1	0.999	1.2	0.992
175	Congo (Democratic Republic of the)	0.480	0.477	0.6	0	0.993	0.0	1.000	2.0	0.987
175	Guinea-Bissau	0.480	..	..	..	..	0.2	0.997	..	..
175	Liberia	0.480	0.476	0.8	-1	0.993	0.3	0.995	1.6	0.990
178	Guinea	0.477	0.473	0.8	0	0.991	0.3	0.996	2.3	0.985
179	Yemen	0.470	0.467	0.6	0	0.994	0.4	0.995	1.1	0.993
180	Eritrea	0.459	0.449	2.2	-1	0.978	0.2	0.997	6.2	0.959
181	Mozambique	0.456	0.452	0.9	1	0.992	0.3	0.996	2.0	0.987
182	Burkina Faso	0.452	0.446	1.3	0	0.986	0.2	0.997	4.0	0.974
182	Sierra Leone	0.452	0.442	2.2	-1	0.978	0.1	0.998	6.4	0.958
184	Mali	0.434	0.427	1.6	-2	0.984	0.2	0.997	4.6	0.970
185	Burundi	0.433	0.431	0.5	1	0.994	0.0	0.999	1.6	0.990
185	South Sudan	0.433	0.430	0.7	0	0.993	0.2	0.998	1.6	0.989
187	Chad	0.398	0.396	0.5	0	0.994	0.1	0.999	1.5	0.990
188	Central African Republic	0.397	0.393	1.0	0	0.991	0.1	0.999	2.6	0.983
189	Niger	0.394	0.390	1.0	0	0.989	0.1	0.999	3.2	0.979
Other countries or territories										
..	Korea (Democratic People's Rep. of)	..	..	..	..	0.988	1.2	0.983	1.0	0.993
..	Monaco	..	..	..	..	..	..	..	..	..

Continued -

HDI RANK	Human Development Index (HDI)	Planetary pressures-adjusted HDI (PHDI)			Adjustment factor for planetary pressures	SDG 9.4 Carbon dioxide emissions per capita (production)	Carbon dioxide emissions (production) index	SDG 8.4, 12.2 Material footprint per capita	Material footprint index
	Value	Value	Difference from HDI value (%)	Difference from HDI rank	Value	(tonnes)	Value	(tonnes)	Value
	2019	2019	2019	2019 ^a	2019	2018	2018	2017	2017
Nauru	..	..	..	..	..	4.7	0.933	..	..
San Marino	..	..	..	..	..	..	..	..	..
Somalia	..	..	..	..	0.992	0.0	0.999	2.3	0.985
Tuvalu	..	..	..	..	..	1.0	0.986	..	..
Human development groups									
Very high human development	0.898	0.760	15.4	-	0.846	10.4	0.851	24.2	0.841
High human development	0.753	0.688	8.6	-	0.914	5.1	0.927	15.2	0.900
Medium human development	0.631	0.615	2.5	-	0.975	1.6	0.977	4.0	0.974
Low human development	0.513	0.508	1.0	-	0.990	0.3	0.996	2.2	0.985
Developing countries	0.689	0.651	5.5	-	0.944	3.4	0.952	9.6	0.937
Regions									
Arab States	0.705	0.666	5.5	-	0.944	4.8	0.931	6.5	0.958
East Asia and the Pacific	0.747	0.676	9.5	-	0.905	5.5	0.921	16.9	0.890
Europe and Central Asia	0.791	0.728	8.0	-	0.920	5.5	0.921	12.2	0.920
Latin America and the Caribbean	0.766	0.720	6.0	-	0.940	2.8	0.960	12.4	0.919
South Asia	0.641	0.622	3.0	-	0.971	2.0	0.972	4.6	0.970
Sub-Saharan Africa	0.547	0.539	1.5	-	0.985	0.8	0.988	2.8	0.982
Least developed countries	0.538	0.533	0.9	-	0.990	0.3	0.995	2.3	0.985
Small island developing states	0.728	0.680	6.6	-	0.935	3.2	0.954	12.9	0.915
Organisation for Economic Co-operation and Development	0.900	0.766	14.9	-	0.851	9.5	0.864	24.8	0.838
World	0.737	0.683	7.3	-	0.927	4.6	0.934	12.3	0.919

Notes

- a Based on countries for which a Planetary pressures-adjusted Human Development Index value is calculated.
- b Not reported.

Definitions

Human Development Index (HDI): A composite index measuring average achievement in three basic dimensions of human development—a long and healthy life, knowledge and a decent standard of living. See *Technical note 1* at http://hdr.undp.org/sites/default/files/hdr2020_technical_notes.pdf for details on how the HDI is calculated.

Planetary pressures-adjusted HDI (PHDI): HDI value adjusted by the level of carbon dioxide emissions and material footprint per capita to account for excessive human pressures on the planet. It should be seen as an incentive for transformation. See *Technical note* at http://hdr.undp.org/sites/default/files/phdi_tn.pdf for details on how the PHDI is calculated

Difference from HDI value: Percentage difference between the PHDI value and the HDI value.

Difference from HDI rank: Difference in ranks on the PHDI and the HDI, calculated only for countries for which a PHDI value is calculated.

Adjustment factor for planetary pressures: Arithmetic average of the carbon dioxide emissions index and the material footprint index, both defined below. A high value implies less pressure on the planet.

Carbon dioxide emissions per capita (production): Carbon dioxide emissions produced as a consequence of human activities (use of coal, oil and gas for combustion and industrial processes, gas flaring and cement manufacture) divided by midyear population. Values are territorial emissions, meaning that emissions are attributed to the country in which they physically occur.

Carbon dioxide emissions (production) index: Carbon dioxide emissions per capita (production-based) expressed as an index using a minimum value of 0 and a maximum value of 69.85 tonnes per person. A high value implies less pressure on the planet.

Material footprint per capita: Material footprint is the attribution of global material extraction to domestic final demand of a country. The total material footprint is the sum of the material footprint for biomass, fossil fuels, metal ores and nonmetal ores. Material footprint is calculated as raw material equivalent of imports plus domestic extraction minus raw material equivalents of exports. Material footprint per capita describes the average material use for final demand.

Material footprint index: Material footprint per capita expressed as an index using a minimum value of 0 and a maximum value of 152.58 tonnes per person. A high value implies less pressure on the planet.

Sources

Column 1: Human Development Report Office calculations based on data from UNDESA (2019b), UNESCO Institute for Statistics (2020), United Nations Statistics Division (2020b), World Bank (2020g), Barro and Lee (2018) and IMF (2020d).

Column 2: Calculated as the product of the HDI and the adjustment factor presented in column 5.

Column 3: Calculated based on data in columns 1 and 2.

Column 4: Calculated based on PHDI values and recalculated HDI ranks for countries for which a PHDI value is calculated.

Column 5: Calculated based on data in columns 7 and 9.

Column 6: GCP 2020.

Column 7: Calculated based on data in column 6.

Column 8: UNEP 2020d.

Column 9: Calculated based on data in column 8.