

List of countries by air pollution

The following list of countries by <u>air pollution</u> sorts the countries of the world according to their average measured concentration of <u>particulate matter</u> (<u>PM2.5</u>) in micrograms per <u>cubic meter</u> (µg/m³). The <u>World Health Organization's</u> recommended limit is 5 micrograms per cubic meter, although there are also various national guideline values, which are often much higher. Air pollution is among the biggest health problems of modern <u>industrial society</u> and is responsible for more than 10 percent of all deaths worldwide (nearly 4.5 million premature deaths in 2019), according to <u>The Lancet</u>. Air pollution can affect nearly every organ and system of the body, negatively affecting nature and humans alike. Air pollution is a particularly big problem in <u>emerging and developing countries</u>, where global environmental standards often cannot be met. The data in this list refers only to outdoor air quality and not indoor air quality, which caused an additional two million premature deaths in 2019. [1]

2022 list (UChicago AQLI 2022)

All data are valid for the year 2022 and are taken from the *Air Quality Life Index (AQLI)* of the <u>University of Chicago</u>. In addition to particulate matter pollution, the modeled potential loss of <u>life expectancy</u> of the population due to particulate matter pollution is given. [2]

Rank	Country	Particulate matter (PM2.5) (in μg/m³) WHO-Guideline=5	Loss of life expectancy (years)
1	Bangladesh	54.17	-4.82
2	<u>India</u>	41.39	-3.57
3	№ Nepal	39.18	-3.35
4	Qatar	39.16	-3.35
5	Pakistan	38.90	-3.32
6	Democratic Republic of the Congo	34.20	-2.86
7	Burundi	34.04	-2.85
8	Rwanda	33.37	-2.78
9	Equatorial Guinea	32.87	-2.73
10	Cameroon	32.58	-2.70
11	Republic of the Congo	31.94	-2.64
12	Iraq	32.42	-2.69
13	Mongolia Mongolia	30.10	-2.46
14	Bolivia	29.63	-2.41
15	Myanmar	28.64	-2.32
16	China	28.18	-2.27
17	Lesotho	27.87	-2.24
18	<u> </u>	27.81	-2.24
19	Saudi Arabia	27.50	-2.20
20	El Salvador	27.43	-2.20
21	Gabon	25.65	-2.02
22	Peru	25.48	-2.01
23	■ Guatemala	25.13	-1.97
24	■ Nigeria	25.02	-1.96
25	Central African Republic	24.99	-1.96
26	Honduras	24.52	-1.91
27	Bosnia and Herzegovina	23.93	-1.86
28	<u></u> ✓ <u>Vietnam</u>	23.58	-1.82
29	Laos	23.53	-1.82
30	South Africa	23.26	-1.75
31	Chile	22.84	-0.91
32	Syria	22.82	-1.75
33	<u></u> Bhutan	22.78	-1.74

34	Bahrain	22.75	-1.74
35	Zambia	22.18	-1.68
36	Kuwait	21.77	-1.64
37	Thailand	21.15	-1.58
38	<u>C·</u> Turkey	21.10	-1.58
39	<u>Angola</u>	21.07	-1.57
40	south Korea	20.82	-1.55
41	United Arab Emirates	20.71	-1.54
42	Jordan	19.70	-1.44
43	Armenia	19.51	-1.42
44	<u>Philippines</u>	19.17	-1.39
45	Egypt	19.16	-1.39
46	Sri Lanka	19.13	-1.38
47	North Macedonia	19.02	-1.37
48	Bulgaria	18.86	-1.36
49	<u>Iran</u>	18.80	-1.35
50	Uzbekistan	18.64	-1.34
51	Lebanon	18.62	-1.33
52	North Korea	18.60	-1.33
53	<u>Djibouti</u>	18.43	-1.32
54	Ecuador Ecuador	18.32	-1.31
55	Indonesia	18.25	-1.30
56	Z Tanzania	18.17	-1.29
57	Malawi	17.61	-1.24
58	Benin	17.31	-1.21
59	Republic of China	17.29	-1.20
60	Tajikistan	17.08	-1.18
61	Afghanistan	16.98	-1.17
62	Serbia Serbia	16.95	-1.17
63	Cambodia	16.94	-1.17
64	Ethiopia	16.94	-1.17
65	Yemen	16.76	-1.15
66	Kenya Kenya	16.47	-1.12
67	Eswatini	16.38	-1.12
68	Colombia	16.23	-1.10
69	South Sudan	15.97	-1.08
	1	I	

70	Z imbabwe	15.97	-1.08
71	■ Mexico	15.64	-1.04
72	Togo	15.64	-1.04
73	Montenegro	15.09	-0.99
74		14.68	-0.95
75	Nicaragua	14.62	-0.94
76	C Northern Cyprus	14.51	-0.93
77	Namibia Namibia	14.49	-0.93
78	Papua New Guinea	14.45	-0.93
79	Eritrea	14.43	-0.92
80	srael	14.32	-0.91
81	Croatia	14.15	-0.90
82	<u>Poland</u>	14.09	-0.89
83	Palestine	13.99	-0.88
84	<u>Singapore</u>	13.89	-0.87
85	<u></u> Ghana Ghana	13.73	-0.86
86	Romania	13.67	-0.85
87	++ Georgia	13.65	-0.85
88	<u> San Marino</u>	13.51	-0.83
89	<u> </u>	13.44	-0.83
90	<u>Malaysia</u>	13.31	-0.81
91	Paraguay	13.23	-0.81
92	<u></u> Jamaica	13.17	-0.80
93	■ Italy	13.11	-0.79
94	<u>Mozambique</u>	12.70	-0.75
95	Costa Rica	12.63	-0.75
96	<u> Albania</u>	12.60	-0.74
97	Greece	12.56	-0.74
98	<u>Botswana</u>	12.47	-0.73
99	<u>Argentina</u>	12.44	-0.73
100	Slovenia	12.32	-0.72
101	Latvia	12.14	-0.70
102	Slovakia Slovakia	12.10	-0.70
103	Kyrgyzstan	12.09	-0.69
104	◆ Brazil	12.06	-0.69
105	Kazakhstan	12.01	-0.69

	I		
106	<u>Venezuela</u>	11.96	-0.68
107	Hungary	11.93	-0.68
108	<u>Azerbaijan</u>	11.87	-0.67
109	Czech Republic	11.49	-0.64
110	Moldova Moldova	11.49	-0.64
111	Chad	11.27	-0.61
112	• Japan	11.26	-0.61
113	Vatican City	11.10	-0.60
114	Timor-Leste	10.96	-0.58
115	Liechtenstein	10.82	-0.57
116	Ukraine	10.81	-0.57
117	Niger	10.56	-0.54
118	Ivory Coast	10.45	-0.53
119	Turkmenistan	10.38	-0.53
120	São Tomé and Príncipe	10.28	-0.52
121	Sudan	10.18	-0.51
122	Tunisia	10.18	-0.51
123	Maiti Haiti	9.92	-0.48
124	Monaco	9.90	-0.48
125	Belize	9.89	-0.48
126	Sierra Leone	9.87	-0.48
127	Belarus	9.84	-0.47
128	Guinea	9.82	-0.47
129	Madagascar	9.70	-0.46
130	≟ Panama	9.65	-0.46
131	Lithuania	9.53	-0.44
132	Austria	9.52	-0.44
133	<u>Liberia</u>	9.39	-0.43
134	Russia	9.30	-0.42
135	uruguay	9.08	-0.40
136	<u>★ Somalia</u>	8.90	-0.38
137	Libya	8.89	-0.38
138	Belgium	8.82	-0.37
139	Switzerland	8.73	-0.37
140	Andorra	8.72	-0.36
141	Burkina Faso	8.66	-0.36
-	•		

1.10		0.54	0.04
142	Germany	8.51	-0.34
143	<u>Netherlands</u>	8.49	-0.34
144	France	8.45	-0.34
145	United Kingdom	8.28	-0.32
146	Maldives	8.20	-0.31
147	Mayotte	8.15	-0.31
148	Cayman Islands	8.00	-0.29
149	Luxembourg	8.00	-0.29
150	Guinea-Bissau	7.94	-0.29
151	Dominican Republic	7.86	-0.28
152	<u>Spain</u>	7.50	-0.24
153	<u> </u>	7.30	-0.23
154	Malta	7.16	-0.21
155	Suyana	7.15	-0.21
156	Denmark	7.08	-0.20
157	Morocco	7.06	-0.20
158	Solomon Islands	7.02	-0.20
159	Comoros	6.99	-0.20
160	United States	6.91	-0.19
161	Gambia	6.86	-0.18
162	Mali	6.63	-0.16
163	E Cuba	6.34	-0.13
164	Brunei	6.33	-0.13
165	■ Algeria	6.14	-0.11
166	Suriname	6.05	-0.10
167	■◆ ■ Canada	6.04	-0.10
168	Portugal	5.67	-0.07
169	■ ∗■ Senegal	5.67	-0.07
170	Mauritius	5.65	-0.06
171	Estonia	5.61	-0.06
172	French Guiana	5.53	-0.05
173	■ Ireland	5.41	-0.04
174	Vanuatu	5.12	-0.01
175	Seychelles	4.96	0.00
176	Norway	4.88	0.00
177	Sweden	4.86	0.00
	1	<u> </u>	1

178	Western Sahara	4.84	0.00
179	+- Finland	4.37	0.00
180	Trinidad and Tobago	3.90	0.00
181	Curaçao	3.70	0.00
182	New Zealand	3.69	0.00
183	Mauritania Mauritania	3.51	0.00
184	Aruba	3.40	0.00
185	Australia Australia	3.36	0.00
186	Fiji	3.23	0.00
187	Bahamas	3.11	0.00
188	 Iceland	2.90	0.00
189	Bermuda	2.80	0.00
190	Réunion	2.74	0.00
191	Martinique	2.72	0.00
192	+ Faroe Islands	2.61	0.00
193	Falklands	2.60	0.00
194	Palau	2.40	0.00
195	Saint Kitts and Nevis	2.40	0.00
196	■ Dominica	2.34	0.00
197	Puerto Rico	2.21	0.00
198	<u>Grenada</u>	2.19	0.00
199	Cape Verde	2.18	0.00
200	Saint Vincent and the Grenadines	2.15	0.00
201	Saint Lucia	2.02	0.00
202	Barbados	2.00	0.00
203	Tonga	1.98	0.00
204	Antigua and Barbuda	1.79	0.00
205	₩ US Virgin Islands	1.75	0.00
206	Samoa	1.69	0.00
207	Tuvalu	1.56	0.00
208	British Virgin Islands	1.52	0.00
209	French Polynesia	1.40	0.00
210	American Samoa	1.40	0.00
211	Guam	1.19	0.00
212	Nauru	1.18	0.00
213	Cook Islands	1.13	0.00
214	<u></u> Greenland	1.11	0.00

215	Marshall Islands	1.02	0.00
216	Federated States of Micronesia	0.94	0.00
217	Kiribati	0.90	0.00

List (2018-2023)

All data are valid for the year 2018-2023 and are taken from the $IQAir\ 2023\ World\ Air\ Quality\ Ranking^{[3][4][5][6]}$

List of Countries/Regions by particulate matter (PM2.5) in ($\mu g/m^3$)

Rank	Country/Region	2018	2019	2020	2021	2022	2023	Population
1	Bangladesh	97.1	83.3	77.1	76.9	65.8	79.9	173,562,364
2	<u>e</u> Pakistan	74.3	65.8	59	66.8	70.9	73.7	231,402,117
3	India	72.5	58.1	51.9	58.1	53.3	54.4	1,407,563,842
4	<u>Tajikistan</u>			30.9	59.4	46	49	9,750,064
5	Burkina Faso					63	46.6	22,100,683
6	Iraq		39.6		49.7	80.1	43.8	43,533,592
7	United Arab Emirates	49.9	38.9	29.2	36	45.9	43	9,365,145
8	Nepal Nepal	54.1	44.5	39.2	46	40.1	42.4	30,034,989
9	Egypt		18		29.1	46.5	42.4	109,262,178
10	Democratic Republic of the Congo		32.1			15.5	40.8	95,894,118
11	Kuwait	56	38.3	34	29.7	55.8	39.9	4,250,114
12	Bahrain	59.8	46.8	39.7	49.8	66.6	39.2	1,463,265
13	Qatar			44.3	38.2	42.5	37.6	2,688,235
14	Indonesia	42	51.7	40.7	34.3	30.4	37.1	273,753,191
15	Rwanda					44	36.8	13,461,888
16	Z imbabwe						33.3	15,993,524
17	★ Ghana		30.3	26.9	25.9	30.2	33.2	32,833,031
18	Kyrgyzstan		33.2	43.5	50.8	31.1	33.1	6,691,800
19	China	41.2	39.1	34.7	32.6	30.6	32.5	1,412,360,000
20	Libya						30.4	6,735,277
21	Laos		23.1	22.4	21.5	27.6	29.6	7,275,556
22	★ Vietnam	32.9	34.1	28	24.7	27.2	29.6	97,468,029
23	Uzbekistan	34.3	41.2	29.9	42.8	33.5	28.6	34,915,100
24	<u>Gambia</u>						28.5	2,639,916
25	<u>Myanmar</u>		31	29.4	25.9	24.3	28.2	53,798,084
26	I Senegal			11.2		20.4	28.2	16,876,720
27	Bosnia Herzegovina	40	34.6	40.6	27.8	33.6	27.5	3,270,943
28	<u>uganda</u>	40.8	29.1	26.1	27.6	39.6	27.3	45,853,778
29	Ethiopia	27.1	20.1	14.7	23.9	31.3	27	120,283,026
30	Saudi Arabia		22.1	23.3	32.7	41.5	26.5	35,950,396
31	<u>Armenia</u>		25.5	24.9	33.9	31.4	26.4	2,790,974
32	North Macedonia	35.5	32.4	30.6	25.4	25.6	25.2	2,065,092
33	Zambia					24.6	24.1	19,473,125

34	Cameroon						24	27,198,628
35	■ Nigeria	44.8	21.4		34	36.9	23.9	213,401,323
36	Thailand	26.4	24.3	21.4	20.2	18.1	23.3	71,601,103
37	<u>Cambodia</u>	20.1	21.1	21.1	19.8	8.3	22.8	16,589,023
38	Malaysia Malaysia		19.4	15.6	19.4	17.7	22.5	33,573,874
39	Mongolia Mongolia	58.5	62	46.6	33.1	29.5	22.5	3,347,782
40	Kazakhstan	29.8	23.6	21.9	31.1	23	22.2	19,000,988
41	Montenegro			26.1	35.2	15.7	21.3	619,211
42	Madagascar			20	21	23.7	20.6	28,915,653
43	₹ Serbia	23.9	23.3	24.3	25.5	24.7	20.5	6,834,326
44	C Turkey	21.9	20.6	18.7	20	21.1	20.3	84,775,404
45	Taiwan_	18.5	17.2	15	16.2	13.4	20.2	23,816,775
46	■●■ Mexico	20.3	20	18.9	19.3	19.5	20.1	126,705,138
47	South Africa		21.6	18	22.7	23.4	19.9	59,392,255
48	El Salvador					14.2	19.5	6,314,167
49	Sri Lanka	32	25.2	22.4	17.4	20.7	19.3	22,156,000
50	south Korea	24	24.8	19.5	19.1	18.3	19.2	51,744,876
51	Peru	28	23.3	17.9	29.6	23.5	18.8	33,715,471
52	<u>Azerbaijan</u>				17.6	18.9	18.8	10,137,750
53	<u>Chile</u>	24.9	22.6	19.3	21.7	22.2	18.8	19,493,184
54	Guatemala		20.2	19.2	19.5	18.6	18.7	17,109,746
55	Palestinian Territory						18.6	3,000,021
56	<u>srael</u>	18.6	20.8	16.9	18.7	18.8	17.8	9,364,000
57	Greece		22.5	18.4	19	19	17.4	10,641,221
58	Suyana					12.6	17.1	804,567
59	Gabon					25	16.9	2,341,179
60	Albania Albania			16	12.5	14.5	16.7	2,811,666
61	Ivory Coast			21.9		22.5	16.6	29,389,150
62	# Georgia		20.1	20.4	21	17	16.4	3,708,610
63	Togo						16.3	8,644,829
64	Macao SAR	21.2	23.5	17.8	17	15.4	16.2	686,607
65	■●■ Moldova					22.6	15.7	2,615,199
66	Nicaragua					8.9	15.7	6,850,540
67	Romania	18.6	18.3	15.8	15.3	17.2	15.7	19,119,880
68	Hong Kong SAR	20.2	20.3	15.4	15.9	14.5	15.6	7,413,100
69	Maldives Maldives					10.9	15.3	521,457

70	Honduras				11.8	10.2	15.1	10,278,345
71	■ Italy	14.9	17.1	18.5	15.2	18.9	15	59,109,668
72	Slovenia				13.3	15.1	14.9	2,108,079
73	€ Cyprus	17.6	19.7	15.8	14.8	15.6	14.3	1,244,188
74	Poland	22.4	18.7	16.9	19.1	16.3	14.1	37,747,124
75	Colombia	13.9	14.6	15.6	14.1	15.7	14.1	51,516,562
76	Guinea						13.9	13,531,906
77	<u>Croatia</u>	22.2	19.1	21.2	25.4	23.5	13.8	3,899,000
78	Algeria		21.2	20.2	20	17.8	13.8	44,177,969
79	Philippines	14.6	17.6	12.8	15.6	14.9	13.5	113,880,328
80	<u>Singapore</u>	14.8	19	11.8	13.8	13.3	13.4	5,453,566
81	Bulgaria Bulgaria	25.8	25.5	27.5	16.3	18.3	13.2	6,877,743
82	Slovakia	18.5	16.1	15.3	16	14.5	13.1	5,447,247
83	Srazil	16.3	15.8	14.2	13.6	12.2	12.6	214,326,223
84	Bolivia					7.3	12.6	12,079,472
85	Kosovo	30.4	23.5	20	14.7	14.7	12.1	1,786,038
86	Malta	11	9.4	11.8	13.5	11.7	12	518,536
87	Hungary	16.8	14.6	14.3	15.5	12.6	12	9,709,891
88	<u> </u>				14.2	11.3	11.7	3,426,260
89	Czech Republic	20.2	14.4	12.3	13.9	13.4	11.5	10,505,772
90	Kenya Kenya			14.2	14.3	11.5	10.6	53,005,614
91	Suriname					7	10.6	612,985
92	Lithuania	17.5	14.5	11.7	13.2	13.2	10.4	2,800,839
93	■◆■ Canada	7.9	7.7	7.3	8.5	7.4	10.3	38,246,108
94	Russia	11.4	9.9	9.3	12.3	11.2	10	143,449,286
95	<u>Spain</u>	10.3	9.7	10.4	10.7	10.9	9.9	47,415,750
96	• Japan	12	11.4	9.8	9.1	9.1	9.6	125,681,593
97	≟ ■ Panama					9	9.6	4,351,267
98	Austria	15	12.2	10.9	11.4	10.6	9.6	8,955,797
99	France	13.2	12.3	11.1	11.4	11.5	9.5	67,749,632
100	Belgium	13.5	12.5	8.9	11.5	10.8	9.4	11,592,952
101	Argentina		14.6	14.2	8.2	7.7	9.2	45,808,747
102	<u>USA</u>	9.1	9	9.6	10.3	8.9	9.1	331,893,745
103	Germany	13	11	10.1	10.6	11	9	83,196,078
104	<u>Switzerland</u>	11.6	10.9	9	10.8	10	8.9	8,703,405
105	Luxembourg	11.2	9.6	9	9	7.4	8.9	640,064

106	Netherlands Netherlands	11.7	10.9	9.7	11.3	11	8.7	17,533,044
107	Ukraine	14	16.6	19.2	18.5	9.7	8.6	43,792,855
108	Belize					5.6	8.3	400,031
109	Latvia		13.3	11.3		10.1	8	1,884,490
110	Andorra Andorra			7.4	7.3	5.4	7.9	79,034
111	Angola Angola		15.9	13	11	8.8	7.8	34,503,774
112	United Kingdom	10.8	10.5	8.3	8.8	8.9	7.7	67,326,569
113	<u>Denmark</u>		9.6	9.4	9.6	8.6	7.7	5,856,733
114	Anguilla						7.4	15,094
115	<u>Ecuador</u>		8.6	7.6	8.4		7.4	17,797,737
116	Liechtenstein				7.2	8.3	7.2	39,039
117	Jamaica						7.1	2,827,695
118	Portugal	9.4	9.3	9.1	7.1	8.1	6.8	10,325,147
119	■ Ireland	9.5	10.6	8.6	8	7.5	6.3	5,033,165
120	Norway Norway	7.6	6.9	5.7	7.5	7	6.3	5,408,320
121	Costa Rica		10.4	8.2	7.8	7.9	6.1	5,153,957
122	Trinidad and Tobago				7.1	5.1	5.8	1,525,663
123	<u>Bahamas</u>		3.3		5.5		5.2	407,906
124	Sweden	7.4	6.6	5	6.6	6.2	5.1	10,415,811
125	+ Finland	6.6	5.6	5	5.5	5	4.9	5,541,017
126	<u>Estonia</u>	7.2	6.2	5.9	5.9	4.9	4.7	1,330,932
127	Puerto Rico	13.7	10.2	3.7	4.8	4.3	4.5	3,263,584
128	Australia Australia	6.8	8	7.6	5.7	4.2	4.5	25,688,079
129	New Zealand	7.7	7.5	7	6.8	4.8	4.3	5,122,600
130	E ermuda					3	4.1	63,867
131	Grenada Grenada				5.5	3.8	4.1	124,610
132	lceland lceland	5	5.5	7.2	6.1	3.4	4	372,520
133	<u>Mauritius</u>						3.5	1,266,060
134	French Polynesia					2.5	3.2	304,032

References

- 1. Ritchie, Hannah; Roser, Max (2013-11-16). "Indoor Air Pollution" (https://ourworldindata.org/indoor-air-pollution). Our World in Data.
- 2. "The Air Quality Life Index (AQLI)" (https://aqli.epic.uchicago.edu/the-index/). AQLI. Retrieved 2023-03-08.
- 3. "World's Most Polluted Countries in 2023 PM2.5 Ranking | IQAir" (https://www.iqair.com/world-most-polluted-countries).

- 4. "The Air Quality Life Index (AQLI)" (https://aqli.epic.uchicago.edu/the-index/). AQLI. Retrieved 2023-03-08.
- 5. "World's Most Polluted Countries in 2022 PM2.5 Ranking | IQAir" (https://www.iqair.com/world-most-polluted-countries). www.iqair.com. Retrieved 2023-06-29.
- 6. ."Most Polluted Countries 2023" (https://worldpopulationreview.com/country-rankings/most-polluted-countries). *worldpopulationreview.com*. Retrieved 2023-06-29.

External links

IQAir World Air Quality Ranking (https://www.iqair.com/world-most-polluted-countries)

Retrieved from "https://en.wikipedia.org/w/index.php?title=List_of_countries_by_air_pollution&oldid=1270698570"