

Table 9.2. Biome type, soil type, potential evapotranspiration (PE), moisture index (Im), Köppen climate type, and geographical coordinate data for 80 sampled locations.

No.	Weather Station Name	Location	PE	Im	Biome Type	Soil Type	Köppen Type
1	Tandil, Argentina	37°S, 57°W	1614	-48	G	6	Cfb
2	Rosario, Argentina	32°S, 60°W	2006	-51	G	6	Cfa
3	Santiago del Estero, Argentina	27°S, 64°W	2510	-77	S	7	BSh
4	Rio Preto da Eva, Brazil	3°S, 60°W	1526	51	T	4	Af
5	Santa Isabel do Pará, Brazil	1°S, 48°W	1789	34	T	4	Af
6	Buriti Cortado, Brazil	5°S, 42°W	2093	-26	T	4	Aw
7	Ciudad Bolivar, Venezuela	8°N, 63°W	1906	-50	S	4	Aw
8	Iquitos, Peru	3°S, 73°W	1776	61	T	4	Af
9	Iquique, Chile	20°S, 70°W	2243	-100	d	8	BWh
10	Altamira, Brazil	2°S, 53°W	1518	21	T	4	Am
11	Soledad de Graciano Sánchez, Mexico	22°N, 100°W	1890	-82	d	8	Bsk
12	Apodaca, Mexico	25°N, 100°W	1981	-69	d	8	BSh
13	Port Isabel, Texas, USA	26°N, 97°W	1890	-63	S	7	Cfa
14	El Paso international Airport, Texas, USA	31°N, 106°W	2358	-91	d	8	BWk
15	Phoenix, Arizona, USA	33°N, 112°W	2633	-92	d	8	BWh
16	Yuma, Arizona, USA	32°N, 114°W	2472	-97	d	8	BWh
17	Imperial, California, USA	32°N, 115°W	2053	-97	d	8	BWh
18	Reno, Nevada, USA	39°N, 115°W	1917	-88	d	8	Bsk
19	Olympia, Washington, USA	47°N, 123°W	980	27	E	2	Csb
20	Spirit Lake, Idaho, USA	48°N, 117°W	1136	-37	E	2	Dsb
21	Regina, Saskatchewan, Canada	50°N, 104°W	1184	-68	G	6	Dfb
22	Calgary, Alberta, Canada	51°N, 114°W	1128	-62	G	6	Dfb
23	Winnipeg, Manitoba, Canada	49°N, 97°W	1143	-55	G	6	Dfb
24	Anchorage, Alaska, USA	61°N, 149°W	655	-37	B	2	Dsb
25	Whitehorse, Yukon, Canada	60°N, 135°W	632	-57	B	2	Dfb
26	Fairbanks, Alaska, USA	64°N, 147°W	704	-54	B	2	Dfb
27	Barrow, Alaska, USA	71°N, 156°W	289	-61	tu	1	ET
28	Thunder Bay, Ontario, Canada	49°N, 89°W	948	-24	B	2	Dfb
29	Bonavista, Newfoundland, Canada	49°N, 53°W	846	25	B	2	Dfb
30	Duluth, Minnesota, USA	46°N, 90°W	1084	-34	De	2	Dfb
31	Caribou, Maine, USA	46°N, 68°W	913	3	De	2	Dfb
32	St. John, New Brunswick, Canada	45°N, 66°W	935	38	De	2	Dfb
33	Barrie, Ontario, Canada	44°N, 80°W	1084	-21	De	3	Dfb
34	Churchill, Manitoba, Canada	58°N, 94°W	595	-30	B	2	Dfb
35	Iqaluit, Nunavut, Canada	64°N, 69°W	416	1	tu	1	ET
36	Fargo, North Dakota, USA	46°N, 96°W	1264	-58	G	6	Dfb
37	Des Moines, Iowa, USA	41°N, 93°W	1399	-40	G	5	Dfa
38	Bolingbrook, Illinois, USA	41°N, 87°W	1304	-28	G	5	Dfa
39	Brentwood, Pennsylvania, USA	40°N, 80°W	1495	-34	G	3	Dfb
40	Asheville, North Carolina, USA	35°N, 82°W	1379	-18	De	4	Cfa

No.	Weather Station Name	Location	PE	Im	Biome Type	Soil Type	Köppen Type
41	Powder Springs, Georgia, USA	33°N, 83°W	1488	-10	De	4	Cfa
42	Reykjavik, Iceland	64°N, 15°W	515	69	B	2	Cfb
43	Dublin, Ireland	53°N, 6°W	919	-17	De	2	Cfb
44	Arkhangelsk, Russia	64°N, 40°E	597	-7	E	2	Dfb
45	Santander, Spain	43°N, 4°W	1191	-10	De	3	Cfb
46	Burgos, Spain	42°N, 4°W	1308	-56	M	7	Cfb
47	Verkhoyansk, Russia	67°N, 113°E	612	-71	B	2	Dfb
48	Turkestan, Kazakhstan	43°N, 68°E	1906	-89	G	7	BSk
49	Shanghai, China	31°N, 121°E	1489	-28	De	3	Cfa
50	Hong Kong	22°N, 114°E	1755	23	Td	4	Cfa
51	Singapore	1°N, 103°E	1571	51	T	4	Af
52	Hyderabad, Pakistan	25°N, 68°E	2754	-94	d	8	BWh
53	Nioro du Sahel, Mali	15°N, 9°W	2918	-81	S	8	BSh
54	Bamako, Mali	12°N, 7°W	2539	-62	S	7	Aw
55	Abidjan, Côte d'Ivoire	5°N, 4°W	1790	0	T	4	Aw
56	Swkopmund, Namibia	23°S, 15°E	2295	-100	d	8	BWk
57	Johannesburg, South Africa	26°S, 28°E	2170	-64	S	8	Cwb
58	Darwin, Australia	12°S, 130°E	2344	-28	S	4	Aw
59	Christchurch, New Zealand	43°S, 172°E	1263	-52	G	2	Cfb
60	Miami, Florida	29°N, 82°W	1694	-25	Td	4	Aw
61	Tantoyuca, Mexico	21°N, 98°W	1788	-32	Td	4	Aw
62	Mobile, Alabama	30°N, 88°W	1567	1	E	4	Cfa
63	Kano, Nigeria	12°N, 8°E	2691	-72	S	5	BSh
64	Giza, Egypt	30°N, 31°E	2258	-99	d	4	BWh
65	Waku Kungo, Angola	11°S, 15°E	2125	-47	gm	6	Cwb
66	Ewo, Democratic Republic of the Congo	6°S, 15°E	1842	0	S	4	Aw
67	Kabinda, Democratic Republic of the Congo	6°S, 24°E	2492	-43	S	4	Aw
68	Kisumu, Kenya	0°S, 34°E	2139	-38	S	4	Af
69	Juba, Sudan	5°N, 32°E	2688	-65	S	4	Aw
70	Jos, Nigeria	10°N, 9°E	1887	-30	gm	4	Aw
71	Abeche, Chad	14°N, 21°E	2959	-86	S	4	BWh
72	Kinshasa, Democratic Republic of the Congo	4°S, 15°E	1745	-22	S	4	Aw
73	Pemberton, British Columbia, Canada	50°N, 123°W	818	26	E	2	Dsb
74	Port Harcourt, Nigeria	5°N, 6°E	1528	77	T	4	Am
75	Campobasso, Italy	42°N, 4°W	1337	-51	M	7	Cfb
76	Crescent City, California, USA	42°N, 124°W	1273	42	E	2	Csb
77	Port Renfrew, British Columbia, Canada	49°N, 124°W	902	126	E	2	Cfb
78	Brewton, Alabama, USA	31°N, 87°W	1599	-1	E	2	Cfa
79	Sisimiut, Greenland	67°N, 54°W	456	-17	tu	1	ET
80	Dudinka, Russia	69°N, 86°E	325	23	tu	1	ET

Data modified from the publication Meentemeyer, V. 1979. Vegetation and climate: an exercise in map reading and graph interpretation. *Journal of Geography*. 78(5):181-187. Measurements of PE, biome type, Köppen climate type, and soil type were updated from **ESRI's ArcGIS Online Living Atlas** - <https://livingatlas.arcgis.com/en/home/>