

Table 2.20(1) Annual and seasonal average percentage frequencies of hourly wind speed by temperature: Plymouth (1982–2011)

Temperature / °C	Percentage frequency for stated range of wind speed / m·s ⁻¹																
	0–2	2–4	4–6	6–8	8–10	10–12	12–14	14–16	16–18	18–20	20–22	22–24	24–26	26–28	28–30	30–32	All speeds
Annual average																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1	0.00				0.00	0.00	0.00										0.01
–6 to –4.1	0.02	0.01	0.01	0.01	0.01	0.00											0.05
–4 to –2.1	0.06	0.08	0.03	0.03	0.02	0.00											0.21
–2 to –0.1	0.28	0.25	0.14	0.09	0.05	0.03	0.01										0.84
0 to 1.9	0.75	0.73	0.37	0.21	0.10	0.05	0.02	0.00									2.22
2 to 3.9	1.27	1.44	0.86	0.51	0.26	0.10	0.01	0.00									4.45
4 to 5.9	1.54	2.13	1.51	0.95	0.49	0.17	0.06	0.02	0.00	0.00							6.87
6 to 7.9	1.86	2.76	2.51	1.84	0.94	0.46	0.20	0.06	0.02	0.01	0.00	0.00					10.66
8 to 9.9	1.99	3.21	3.68	3.18	2.08	1.16	0.60	0.23	0.07	0.04	0.02	0.00					16.26
10 to 11.9	1.95	2.95	3.23	2.88	2.15	1.42	0.85	0.42	0.14	0.09	0.02	0.01	0.00				16.10
12 to 13.9	1.92	3.17	3.39	2.46	1.45	0.79	0.43	0.22	0.08	0.04	0.02	0.01	0.00				13.97
14 to 15.9	1.58	3.21	3.78	2.78	1.31	0.66	0.27	0.10	0.02	0.01	0.00	0.00					13.74
16 to 17.9	0.84	2.12	2.74	1.71	0.73	0.23	0.06	0.01	0.00	0.00	0.00						8.45
18 to 19.9	0.29	1.03	1.63	0.69	0.18	0.03	0.00	0.00									3.86
20 to 21.9	0.09	0.40	0.66	0.24	0.06	0.01											1.46
22 to 23.9	0.03	0.18	0.25	0.11	0.01	0.00											0.59
24 to 25.9	0.01	0.05	0.09	0.04	0.01												0.19
26 to 27.9	0.00	0.02	0.03	0.01	0.00												0.06
28 to 29.9		0.00	0.01														0.01
30 to 31.9		0.00	0.00														0.00
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	14.49	23.74	24.91	17.75	9.83	5.11	2.50	1.06	0.33	0.20	0.06	0.02	0.00				99.99
Spring average																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1	0.00				0.00	0.00	0.00										0.01
–6 to –4.1	0.02	0.01	0.01	0.01	0.01	0.00											0.05
–4 to –2.1	0.06	0.08	0.03	0.03	0.02	0.00											0.21
–2 to –0.1	0.28	0.25	0.14	0.09	0.05	0.03	0.01										0.84
0 to 1.9	0.75	0.73	0.37	0.21	0.10	0.05	0.02	0.00									2.22
2 to 3.9	1.27	1.44	0.86	0.51	0.26	0.10	0.01	0.00									4.45
4 to 5.9	1.54	2.13	1.51	0.95	0.49	0.17	0.06	0.02	0.00	0.00							6.87
6 to 7.9	1.86	2.76	2.51	1.84	0.94	0.46	0.20	0.06	0.02	0.01	0.00	0.00					10.66
8 to 9.9	1.99	3.21	3.68	3.18	2.08	1.16	0.60	0.23	0.07	0.04	0.02	0.00					16.26
10 to 11.9	1.95	2.95	3.23	2.88	2.15	1.42	0.85	0.42	0.14	0.09	0.02	0.01	0.00				16.10
12 to 13.9	1.92	3.17	3.39	2.46	1.45	0.79	0.43	0.22	0.08	0.04	0.02	0.01	0.00				13.97
14 to 15.9	1.58	3.21	3.78	2.78	1.31	0.66	0.27	0.10	0.02	0.01	0.00	0.00					13.74
16 to 17.9	0.84	2.12	2.74	1.71	0.73	0.23	0.06	0.01	0.00	0.00	0.00						8.45
18 to 19.9	0.29	1.03	1.63	0.69	0.18	0.03	0.00	0.00									3.86
20 to 21.9	0.09	0.40	0.66	0.24	0.06	0.01											1.46
22 to 23.9	0.03	0.18	0.25	0.11	0.01	0.00											0.59
24 to 25.9	0.01	0.05	0.09	0.04	0.01												0.19
26 to 27.9	0.00	0.02	0.03	0.01	0.00												0.06
28 to 29.9		0.00	0.01														0.01
30 to 31.9		0.00	0.00														0.00
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	14.49	23.74	24.91	17.75	9.83	5.11	2.50	1.06	0.33	0.20	0.06	0.02	0.00				99.99

Table continues

Table 2.20(1) Annual and seasonal average percentage frequencies of hourly wind speed by temperature: Plymouth (1982–2011) — *continued*

Temperature / °C	Percentage frequency for stated range of wind speed / m·s ⁻¹																
	0–2	2–4	4–6	6–8	8–10	10–12	12–14	14–16	16–18	18–20	20–22	22–24	24–26	26–28	28–30	30–32	All speeds
Summer average																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1																	
–6 to –4.1																	
–4 to –2.1																	
–2 to –0.1																	
0 to 1.9																	
2 to 3.9																	
4 to 5.9	0.02	0.01															0.02
6 to 7.9	0.22	0.09	0.01														0.31
8 to 9.9	1.12	0.61	0.13	0.02	0.02	0.00	0.00		0.00								1.91
10 to 11.9	2.80	2.04	0.99	0.43	0.16	0.10	0.03	0.01	0.00								6.54
12 to 13.9	4.06	5.48	4.36	2.61	1.11	0.39	0.15	0.06	0.01	0.00							18.23
14 to 15.9	4.24	7.79	8.41	5.63	2.27	0.94	0.33	0.06	0.01	0.00							29.68
16 to 17.9	2.60	5.97	7.55	4.82	1.85	0.51	0.08	0.01									23.38
18 to 19.9	0.97	3.24	5.13	2.16	0.54	0.08	0.01	0.01									12.13
20 to 21.9	0.32	1.29	2.19	0.80	0.16	0.03	0.00										4.79
22 to 23.9	0.12	0.58	0.87	0.37	0.04	0.01											1.98
24 to 25.9	0.03	0.16	0.33	0.17	0.02	0.00											0.71
26 to 27.9	0.01	0.08	0.11	0.05	0.01												0.25
28 to 29.9	0.00	0.02	0.03														0.05
30 to 31.9		0.00	0.01	0.00													0.02
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	16.50	27.34	30.10	17.05	6.17	2.07	0.60	0.15	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Autumn average																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1																	
–6 to –4.1	0.00																0.00
–4 to –2.1	0.01	0.02	0.00														0.03
–2 to –0.1	0.12	0.08	0.01	0.00													0.21
0 to 1.9	0.40	0.27	0.08	0.04	0.02												0.80
2 to 3.9	0.98	0.67	0.18	0.10	0.03	0.01											1.96
4 to 5.9	1.49	1.56	0.53	0.25	0.10	0.02	0.00			0.00							3.94
6 to 7.9	2.10	2.51	1.44	0.89	0.30	0.13	0.04	0.02	0.01	0.00	0.00	0.00					7.45
8 to 9.9	2.60	3.46	2.59	1.79	0.90	0.38	0.17	0.07	0.02	0.01							11.98
10 to 11.9	2.82	4.43	3.71	3.02	1.87	1.13	0.47	0.20	0.05	0.04	0.02	0.00					17.76
12 to 13.9	2.67	4.61	5.10	4.61	3.21	1.91	1.04	0.57	0.21	0.09	0.04	0.01	0.00				24.06
14 to 15.9	1.71	3.82	4.85	4.40	2.69	1.62	0.72	0.34	0.08	0.05	0.01	0.01					20.29
16 to 17.9	0.61	1.90	2.61	1.67	0.95	0.40	0.15	0.04	0.01	0.01	0.01						8.35
18 to 19.9	0.13	0.65	0.99	0.42	0.10	0.03	0.00	0.00									2.33
20 to 21.9	0.04	0.18	0.27	0.08	0.03	0.00											0.60
22 to 23.9	0.01	0.07	0.07	0.04	0.01												0.20
24 to 25.9		0.01	0.02	0.00													0.04
26 to 27.9		0.00															0.00
28 to 29.9																	
30 to 31.9																	
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	15.68	24.25	22.45	17.31	10.20	5.63	2.59	1.23	0.37	0.20	0.08	0.02	0.00				100.00

Table continues

Table 2.20(1) Annual and seasonal average percentage frequencies of hourly wind speed by temperature: Plymouth (1982–2011) — *continued*

Temperature / °C	Percentage frequency for stated range of wind speed / m·s ⁻¹																
	0–2	2–4	4–6	6–8	8–10	10–12	12–14	14–16	16–18	18–20	20–22	22–24	24–26	26–28	28–30	30–32	All speeds
Winter average																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1	0.01				0.02	0.02	0.00										0.05
–6 to –4.1	0.07	0.05	0.02	0.02	0.02	0.01											0.19
–4 to –2.1	0.21	0.30	0.10	0.11	0.07	0.02											0.80
–2 to –0.1	0.82	0.79	0.51	0.34	0.18	0.09	0.03										2.75
0 to 1.9	1.91	2.18	1.21	0.69	0.35	0.18	0.08	0.01									6.61
2 to 3.9	2.52	3.75	2.56	1.51	0.80	0.31	0.03	0.00	0.00	0.00							11.47
4 to 5.9	2.43	4.32	3.66	2.32	1.23	0.50	0.16	0.05	0.02	0.01	0.00						14.69
6 to 7.9	2.33	4.42	4.85	3.72	2.23	1.14	0.49	0.17	0.05	0.03	0.01	0.00					19.44
8 to 9.9	1.62	3.42	5.11	5.36	4.39	2.61	1.48	0.59	0.18	0.13	0.04	0.01	0.00		0.00	0.00	24.94
10 to 11.9	0.34	0.99	2.12	3.12	3.45	2.94	2.24	1.23	0.41	0.27	0.06	0.03	0.01	0.00			17.20
12 to 13.9	0.03	0.08	0.10	0.22	0.28	0.38	0.34	0.21	0.09	0.08	0.02	0.01	0.01				1.84
14 to 15.9	0.00	0.00				0.00	0.01	0.01									0.02
16 to 17.9								0.00									0.00
18 to 19.9																	
20 to 21.9																	
22 to 23.9																	
24 to 25.9																	
26 to 27.9																	
28 to 29.9																	
30 to 31.9																	
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	12.29	20.30	20.25	17.40	13.00	8.19	4.84	2.27	0.75	0.51	0.14	0.05	0.01	0.00	0.00	0.00	100.00