

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

Temperature / °C	Percentage frequency for stated range of wind speed / m·s <sup>-1</sup>																
	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
<b>Annual average</b>																	
–12 to –10.1	0.00																0.00
–10 to –8.1	0.01																0.01
–8 to –6.1	0.04	0.00															0.05
–6 to –4.1	0.13	0.02	0.01	0.00													0.15
–4 to –2.1	0.35	0.12	0.01	0.01	0.00												0.50
–2 to –0.1	0.86	0.53	0.13	0.04	0.03	0.02	0.00										1.61
0 to 1.9	1.45	1.71	0.88	0.49	0.21	0.07	0.02	0.01									4.83
2 to 3.9	1.64	2.50	2.07	1.21	0.47	0.18	0.06	0.02	0.00	0.01							8.16
4 to 5.9	1.82	3.27	3.02	1.95	0.78	0.26	0.12	0.03	0.01	0.00	0.00	0.00					11.27
6 to 7.9	1.89	3.57	3.71	2.45	1.11	0.39	0.15	0.04	0.01	0.00	0.00	0.00					13.31
8 to 9.9	1.87	3.72	4.06	2.91	1.20	0.44	0.15	0.04	0.01	0.00							14.41
10 to 11.9	1.76	3.98	4.11	2.65	1.14	0.39	0.13	0.02	0.00	0.00							14.18
12 to 13.9	1.53	3.94	4.00	2.31	0.78	0.25	0.06	0.01	0.00								12.90
14 to 15.9	1.08	3.04	3.14	1.64	0.47	0.12	0.02	0.00									9.51
16 to 17.9	0.61	1.82	1.72	0.88	0.21	0.04	0.01	0.00									5.30
18 to 19.9	0.27	0.85	0.76	0.36	0.07	0.02	0.00										2.33
20 to 21.9	0.11	0.37	0.31	0.14	0.02	0.00											0.95
22 to 23.9	0.05	0.15	0.12	0.05	0.00	0.00											0.37
24 to 25.9	0.02	0.04	0.05	0.01	0.00												0.12
26 to 27.9	0.01	0.01	0.01	0.00													0.03
28 to 29.9	0.00	0.00		0.00													0.00
30 to 31.9																	
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	15.51	29.66	28.10	17.08	6.50	2.19	0.73	0.17	0.04	0.02	0.00	0.00					100.00
<b>Spring average</b>																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1	0.01																0.01
–6 to –4.1	0.04	0.01															0.04
–4 to –2.1	0.17	0.08	0.01														0.26
–2 to –0.1	0.56	0.36	0.08	0.01	0.00			0.00									1.02
0 to 1.9	1.41	1.29	0.65	0.42	0.21	0.04	0.02	0.01									4.05
2 to 3.9	2.05	2.47	1.92	1.20	0.51	0.19	0.06	0.01		0.00							8.40
4 to 5.9	2.69	4.28	3.58	2.31	0.95	0.28	0.15	0.05	0.01	0.01							14.30
6 to 7.9	2.67	5.62	5.32	3.46	1.51	0.41	0.14	0.04	0.02								19.19
8 to 9.9	2.07	5.89	6.38	4.38	1.51	0.42	0.11	0.02	0.02	0.00							20.79
10 to 11.9	1.30	4.25	5.04	3.43	1.33	0.33	0.07	0.00									15.74
12 to 13.9	0.75	2.53	2.88	2.01	0.69	0.17	0.02	0.01									9.06
14 to 15.9	0.33	1.24	1.42	0.85	0.23	0.04	0.01										4.12
16 to 17.9	0.17	0.59	0.57	0.35	0.09	0.02											1.78
18 to 19.9	0.10	0.30	0.26	0.14	0.03	0.01											0.84
20 to 21.9	0.05	0.12	0.09	0.05	0.02	0.00											0.33
22 to 23.9	0.02	0.02	0.02	0.01	0.00												0.07
24 to 25.9	0.00	0.00	0.00														0.01
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.	14.38	29.05	28.22	18.63	7.07	1.91	0.58	0.13	0.04	0.01							100.00

Table continues

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

Temperature / °C	Percentage frequency for stated range of wind speed / m·s <sup>-1</sup>															All speeds	
	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
<b>Summer average</b>																	
–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	0.04	0.01															0.05
4 to 5.9	0.26	0.09	0.01														0.36
6 to 7.9	0.78	0.44	0.19	0.04	0.01												1.45
8 to 9.9	1.93	1.92	1.16	0.46	0.17	0.03											5.66
10 to 11.9	3.34	5.60	4.29	1.92	0.48	0.11	0.01										15.75
12 to 13.9	3.66	8.71	7.80	3.57	0.78	0.16	0.02	0.00									24.70
14 to 15.9	3.25	8.34	7.68	3.59	0.76	0.13	0.02	0.00									23.76
16 to 17.9	1.96	5.69	5.16	2.41	0.44	0.07	0.01	0.00									15.74
18 to 19.9	0.90	2.74	2.42	1.11	0.19	0.03	0.00										7.39
20 to 21.9	0.35	1.27	1.05	0.44	0.06	0.01											3.19
22 to 23.9	0.18	0.56	0.45	0.17	0.01	0.00											1.37
24 to 25.9	0.08	0.15	0.18	0.05	0.00												0.46
26 to 27.9	0.03	0.04	0.03	0.01													0.11
28 to 29.9	0.00	0.00		0.00													0.01
30 to 31.9																	
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	16.75	35.58	30.41	13.76	2.90	0.53	0.07	0.01									100.00
<b>Autumn average</b>																	
–12 to –10.1																	
–10 to –8.1																	
–8 to –6.1	0.01																0.01
–6 to –4.1	0.01																0.01
–4 to –2.1	0.09	0.01															0.10
–2 to –0.1	0.48	0.20	0.00				0.00										0.69
0 to 1.9	1.01	0.93	0.16	0.03	0.01												2.13
2 to 3.9	1.53	1.96	0.87	0.28	0.07	0.04	0.01										4.75
4 to 5.9	1.91	2.81	2.11	1.16	0.33	0.11	0.04	0.01									8.47
6 to 7.9	2.61	3.91	3.67	2.05	0.77	0.26	0.09	0.02	0.00								13.38
8 to 9.9	3.05	5.32	5.23	3.24	1.12	0.45	0.19	0.03	0.01	0.00							18.64
10 to 11.9	2.33	5.72	6.12	3.80	1.61	0.50	0.18	0.04	0.00	0.00							20.32
12 to 13.9	1.69	4.44	5.16	3.40	1.40	0.49	0.14	0.03	0.00								16.75
14 to 15.9	0.72	2.51	3.38	2.08	0.87	0.30	0.07	0.01	0.00								9.94
16 to 17.9	0.30	0.96	1.11	0.73	0.32	0.08	0.01	0.00									3.52
18 to 19.9	0.08	0.32	0.35	0.18	0.07	0.02	0.00	0.00									1.02
20 to 21.9	0.02	0.07	0.11	0.04	0.01	0.00											0.25
22 to 23.9	0.00	0.02	0.01	0.00													0.03
24 to 25.9		0.01															0.01
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.	15.84	29.18	28.27	16.99	6.58	2.27	0.72	0.15	0.01	0.00							100.01

*Table continues*

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

Temperature / °C	Percentage frequency for stated range of wind speed / m·s <sup>-1</sup>															All speeds	
	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
<b>Winter average</b>																	
–12 to –10.1	0.01																0.01
–10 to –8.1	0.05	0.00															0.06
–8 to –6.1	0.15	0.01	0.00														0.16
–6 to –4.1	0.46	0.07	0.02	0.00													0.55
–4 to –2.1	1.17	0.41	0.05	0.04	0.01												1.67
–2 to –0.1	2.43	1.60	0.45	0.16	0.10	0.07	0.00										4.82
0 to 1.9	3.43	4.67	2.73	1.52	0.64	0.25	0.06	0.01	0.00	0.00							13.32
2 to 3.9	2.99	5.64	5.55	3.39	1.34	0.49	0.19	0.06	0.02	0.02	0.00						19.68
4 to 5.9	2.43	5.96	6.46	4.38	1.86	0.67	0.30	0.08	0.03	0.01	0.01	0.00					22.19
6 to 7.9	1.48	4.32	5.70	4.29	2.18	0.92	0.36	0.10	0.03	0.02	0.01	0.00					19.39
8 to 9.9	0.41	1.74	3.48	3.58	2.02	0.88	0.32	0.10	0.02	0.01	0.00						12.56
10 to 11.9	0.03	0.28	0.93	1.44	1.13	0.64	0.27	0.04	0.01	0.00							4.76
12 to 13.9	0.00	0.00	0.08	0.22	0.24	0.18	0.08	0.01	0.00								0.81
14 to 15.9		0.00	0.00	0.00	0.00	0.00											0.01
16 to 17.9																	
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.	15.05	24.70	25.45	19.02	9.53	4.10	1.59	0.39	0.11	0.06	0.02	0.01					100.00