

**Table 2.20(e)** Annual and seasonal average percentage frequencies of hourly wind speed by temperature: Glasgow (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	0.03																0.03
–10 to –8.1	0.06	0.00															0.06
–8 to –6.1	0.16	0.01		0.00	0.00												0.16
–6 to –4.1	0.41	0.05	0.00	0.01	0.00												0.47
–4 to –2.1	0.83	0.21	0.02	0.01	0.00												1.07
–2 to –0.1	1.57	0.67	0.19	0.07	0.02	0.00	0.00	0.00									2.51
0 to 1.9	2.35	1.60	0.77	0.36	0.15	0.05	0.01	0.00	0.00								5.28
2 to 3.9	2.58	2.51	1.55	0.95	0.44	0.16	0.06	0.01	0.00	0.00							8.25
4 to 5.9	2.61	3.25	2.35	1.49	0.76	0.29	0.10	0.03	0.02	0.01	0.00	0.00	0.00				10.91
6 to 7.9	2.60	3.57	3.09	1.98	1.09	0.46	0.17	0.03	0.02	0.01	0.00	0.00	0.00				13.03
8 to 9.9	2.49	3.84	3.58	2.39	1.19	0.55	0.21	0.04	0.02	0.01	0.00	0.00					14.31
10 to 11.9	2.47	4.01	3.63	2.18	1.02	0.46	0.18	0.06	0.03	0.00							14.02
12 to 13.9	2.19	3.68	3.34	1.95	0.70	0.23	0.07	0.02	0.01	0.00							12.18
14 to 15.9	1.40	2.67	2.61	1.49	0.47	0.13	0.03	0.00	0.00	0.00							8.81
16 to 17.9	0.71	1.46	1.61	0.85	0.24	0.05	0.01	0.00									4.93
18 to 19.9	0.33	0.72	0.75	0.34	0.07	0.02	0.00										2.22
20 to 21.9	0.14	0.37	0.32	0.12	0.02	0.00											0.98
22 to 23.9	0.08	0.18	0.14	0.05	0.01												0.46
24 to 25.9	0.04	0.08	0.06	0.02	0.01												0.20
26 to 27.9	0.01	0.03	0.02	0.01	0.00												0.07
28 to 29.9	0.00	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.	23.08	28.90	24.04	14.25	6.18	2.39	0.83	0.20	0.10	0.03	0.01	0.01	0.00				100.00
<b>Spring average</b>																	
–12 to –10.1																	
–10 to –8.1	0.00																0.00
–8 to –6.1	0.03	0.00															0.03
–6 to –4.1	0.10	0.01															0.10
–4 to –2.1	0.47	0.15															0.62
–2 to –0.1	1.07	0.51	0.09	0.04	0.01												1.72
0 to 1.9	1.82	1.42	0.72	0.35	0.07	0.02	0.00										4.38
2 to 3.9	2.64	2.63	1.70	1.17	0.48	0.12	0.04	0.01									8.79
4 to 5.9	3.30	4.25	3.18	2.24	1.00	0.33	0.08	0.03	0.01	0.01							14.41
6 to 7.9	3.42	5.53	4.89	2.97	1.54	0.52	0.17	0.02	0.02	0.01	0.01	0.01	0.01				19.08
8 to 9.9	2.64	5.57	5.93	3.91	1.78	0.62	0.21	0.03	0.01	0.00							20.68
10 to 11.9	1.72	3.96	4.52	3.13	1.35	0.41	0.10	0.02	0.01	0.00							15.21
12 to 13.9	0.97	2.02	2.56	1.70	0.61	0.17	0.04	0.01									8.07
14 to 15.9	0.49	1.00	1.22	0.72	0.21	0.05	0.01										3.70
16 to 17.9	0.28	0.54	0.48	0.34	0.12	0.02											1.78
18 to 19.9	0.13	0.28	0.25	0.13	0.06	0.02	0.00										0.87
20 to 21.9	0.06	0.12	0.12	0.05	0.03	0.00											0.38
22 to 23.9	0.03	0.07	0.05	0.01	0.00												0.16
24 to 25.9	0.01	0.01	0.01	0.00	0.00												0.03
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.	19.19	28.03	25.71	16.73	7.24	2.29	0.63	0.12	0.04	0.01	0.01	0.01	0.00				100.01

Table continues

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

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>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	0.02	0.00															0.02
2 to 3.9	0.12	0.02	0.00														0.14
4 to 5.9	0.45	0.16	0.02	0.01													0.63
6 to 7.9	1.21	0.78	0.18	0.04	0.00	0.00											2.21
8 to 9.9	2.73	2.64	1.08	0.35	0.08	0.02	0.00										6.91
10 to 11.9	4.48	5.89	3.59	1.36	0.37	0.08	0.01										15.79
12 to 13.9	5.38	8.36	6.21	2.95	0.72	0.13	0.02		0.00								23.77
14 to 15.9	3.96	7.33	6.63	3.52	0.97	0.17	0.03	0.01	0.00	0.00							22.61
16 to 17.9	2.15	4.44	4.98	2.55	0.62	0.11	0.02	0.01									14.86
18 to 19.9	1.01	2.29	2.46	1.10	0.19	0.04	0.00										7.08
20 to 21.9	0.46	1.28	1.10	0.38	0.06	0.01											3.28
22 to 23.9	0.26	0.62	0.51	0.18	0.05												1.62
24 to 25.9	0.12	0.32	0.21	0.09	0.02												0.76
26 to 27.9	0.05	0.12	0.07	0.04	0.01												0.29
28 to 29.9	0.01	0.02	0.01	0.01													0.04
30 to 31.9																	
32 to 33.9																	
34 to 35.9																	
36 to 37.9																	
All temps.	22.41	34.26	27.03	12.57	3.08	0.55	0.09	0.01	0.01	0.00							100.01
<b>Autumn average</b>																	
–12 to –10.1																	
–10 to –8.1	0.01																0.01
–8 to –6.1	0.05	0.01															0.05
–6 to –4.1	0.20	0.02															0.22
–4 to –2.1	0.60	0.05	0.01														0.66
–2 to –0.1	1.29	0.35	0.04	0.01	0.00												1.69
0 to 1.9	2.00	0.94	0.16	0.03	0.02												3.14
2 to 3.9	2.69	1.63	0.53	0.19	0.05	0.02	0.00										5.10
4 to 5.9	3.32	2.97	1.46	0.69	0.24	0.09	0.05	0.01									8.81
6 to 7.9	3.91	4.08	2.91	1.51	0.68	0.23	0.08	0.01	0.00								13.42
8 to 9.9	4.06	5.26	4.52	2.58	1.04	0.38	0.11	0.03	0.02	0.01	0.00	0.00					18.00
10 to 11.9	3.53	5.75	5.57	3.21	1.38	0.56	0.20	0.05	0.02								20.25
12 to 13.9	2.33	4.22	4.48	3.03	1.38	0.48	0.13	0.02	0.01								16.07
14 to 15.9	1.08	2.25	2.52	1.68	0.68	0.30	0.08	0.01	0.01	0.00							8.62
16 to 17.9	0.39	0.80	0.93	0.46	0.21	0.06	0.01	0.00									2.86
18 to 19.9	0.16	0.27	0.27	0.10	0.03	0.01											0.84
20 to 21.9	0.04	0.07	0.06	0.03													0.20
22 to 23.9	0.02	0.01	0.01	0.00													0.04
24 to 25.9	0.01	0.00	0.00														0.02
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.	25.70	28.66	23.44	13.52	5.71	2.12	0.66	0.13	0.05	0.01	0.00	0.00					100.00

*Table continues*

**Table 2.20(e)** Annual and seasonal average percentage frequencies of hourly wind speed by temperature: Glasgow (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	0.10																0.10
–10 to –8.1	0.24	0.01															0.24
–8 to –6.1	0.55	0.02		0.01	0.01												0.58
–6 to –4.1	1.38	0.16	0.02	0.03	0.01												1.60
–4 to –2.1	2.31	0.66	0.09	0.03	0.01												3.08
–2 to –0.1	3.99	1.83	0.63	0.22	0.06	0.01	0.00	0.01	0.00								6.75
0 to 1.9	5.64	4.11	2.23	1.08	0.52	0.17	0.04	0.02	0.01								13.82
2 to 3.9	4.92	5.88	4.03	2.47	1.23	0.50	0.18	0.03	0.01	0.01							19.27
4 to 5.9	3.41	5.69	4.81	3.08	1.82	0.77	0.28	0.09	0.08	0.02	0.01	0.01	0.00				20.06
6 to 7.9	1.85	3.92	4.42	3.46	2.18	1.11	0.42	0.10	0.07	0.03	0.01	0.01	0.00				17.58
8 to 9.9	0.47	1.87	2.81	2.73	1.89	1.18	0.51	0.12	0.05	0.01							11.65
10 to 11.9	0.06	0.34	0.80	0.99	0.96	0.78	0.43	0.16	0.08	0.01	0.00						4.61
12 to 13.9	0.00	0.02	0.02	0.08	0.07	0.13	0.10	0.04	0.03	0.00							0.49
14 to 15.9						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.	25.10	24.50	19.85	14.18	8.76	4.66	1.96	0.56	0.32	0.09	0.03	0.01	0.01				100.00