

Beaufort Wind Scale

Developed in 1805 by Sir Francis Beaufort, U.K. Royal Navy

Force	Wind speed (knots)	Wind speed (mph)	Wind speed (km/h)	Wind speed (m/s)	WMO Classification	Appearance of Wind Effects
						On Land
0	Less than 1	Less than 1	Less than 1	0-0.2	Calm	Calm, smoke rises vertically
1	1-3	1-3	1-5	0.3-1.5	Light Air	Smoke drift indicates wind direction, still wind vanes
2	4-6	4-7	6-11	1.6-3.3	Light Breeze	Wind felt on face, leaves rustle, vanes begin to move
3	7-10	8-12	12-19	3.4-5.4	Gentle Breeze	Leaves and small twigs constantly moving, light flags extended
4	11-16	13-18	20-28	5.5-7.9	Moderate Breeze	Dust, leaves, and loose paper lifted, small tree branches move
5	17-21	19-24	29-38	8.0-10.7	Fresh Breeze	Small trees in leaf begin to sway
6	22-27	25-31	39-49	10.8-13.8	Strong Breeze	Larger tree branches moving, whistling in wires
7	28-33	32-38	50-61	13.9-17.1	Near Gale	Whole trees moving, resistance felt walking against wind
8	34-40	39-46	62-75	17.2-20.7	Gale	Twigs breaking off trees, generally impedes progress
9	41-47	47-54	75-88	20.8-24.4	Strong Gale	Slight structural damage occurs, slate blows off roofs
10	48-55	55-63	89-102	24.5-28.4	Storm	Seldom experienced on land, trees broken or uprooted, "considerable structural damage"
11	56-63	64-72	103-117	28.5-32.6	Violent Storm	
12	64+	73+	118+	32.7+	Hurricane	
