

Beaufort Wind Scale

Force of wind	Typical wind speed (mph)	WMO classification/ sailor's term	Appearance of wind effects on land
0	0	Calm	Calm; smoke rises straight up
1	1-3	Light air	Smoke drifts with wind direction
2	4-7	Light breeze	Leaves begin to rustle; wind felt on face; wind vane begins to move
3	8-12	Gentle breeze	Small flags extend; leaves in constant motion
4	13-18	Moderate breeze	Dust, leaves, and loose paper lifted; small tree branches move
5	19-24	Fresh breeze	Small trees begin to sway
6	25-31	Strong breeze	Large branches move; whistling heard in wires
7	32-38	Moderate gale	Whole trees moving; resistance felt walking against wind
8	39-46	Gale	Twigs and small branches broken off trees
9	47-54	Strong gale	Slight structural damage occurs, slate blows off roofs
10	55-63	Storm	Trees broken or uprooted, "considerable structural damage"
11	64-74	Violent storm	
12	Above 75	Hurricane	

Cloud Type Chart

Cloud Type	Appearance	Altitude
Cumulonimbus	Thunderheads	Near ground to above 50,000
Cirrostratus	Thin, wispy, above thunderheads	Above 18,000 feet
Cirrus	Thin, often with a horses tail	Above 18,000 feet
Cirrocumulus	Small puffy clouds	Above 18,000 feet
Altostratus	Thin, uniform, sometimes with wide wale corduroy pattern	6,000 - 20,000 feet
Alto cumulus	Medium-sized puffy clouds	6,000 - 20,000 feet
Stratocumulus	Broad and flat on the bottom, puffy on top	Below 6,000 feet
Cumulus	Puffy clouds	Below 6,000 feet
Stratus	Uniform, thick thin layered clouds	Below 6,000 feet