

Wind Speed Converter

This [converter](#) requires the use of [Javascript](#) enabled and capable browsers. This script creates a wind speed converter that can convert six different speed units at one time. Type the wind velocity you want to convert into the know speed value box. Click on the corresponding Convert button and read the results in the other fields. Use the Clear Values button to start over. The Beaufort unit is given for a range of wind velocities, which are measured at an altitude of 10 m above plain ground in open surroundings. It is a calculated value and other values cannot be calculated from it. Generally, all wind speeds faster than 11 Beaufort are grouped together to 12 Beaufort. The scale is most often used for marine use; with the designated measurements divided into 12 values, as we have in our generally accepted Beaufort Scale Chart. Our calculator breaks the higher end winds down further and into a total of 15 designations (preferred by the National Weather Service); however, in either case, the higher the Beaufort value, the stronger the winds. All calculated results have been rounded to 5 significant digits.

Value and Unit Designation	Action
Required Data Entry Of Any One Value	
meters per second	
hour kilometers per	
knots	
miles per hour	
feet per second	
meters per minute	
feet per minute	

Calculated Results
Beaufort

Beaufort Scale Chart				
Beaufort	Avg miles per hour	Avg km per hour	Knots	Surroundings

0 (calm)	0	0	0-1	Smoke rises vertically and the sea is glassy or mirror smooth
1 (light air)	1.2-3	2-5	1-3	Smokes moves slightly with breeze and indicates the direction of wind
2 (light breeze)	3.7 – 7.5	6 – 12	4-6	You can feel wind on your face and hear the gentle movement of leaves on trees and shrubs
3 (gentle breeze)	8 – 12.5	13 – 20	7-10	Smoke will move horizontally and small branches start to sway. Wind extends a light flag
4 (moderate breeze)	13 – 18.6	21 – 30	11-16	Loose dust or sand on the ground will move and larger branches will sway, loose paper blows around, and fairly frequent whitecaps occur
5 (fresh breeze)	19.3 – 25	31 – 40	17-21	Surface waves form on water and small trees sway

6 (strong breeze)	25.5 - 31	41 - 50	22-27	Trees begin to bend with the force of the wind and causes whistling in telephone wires and some spray on the sea surface
7 (moderate gale)	32 - 38	51- 61	28-33	large trees sway
8 (fresh gale)	39 - 46	62- 74	34-40	twigs break from trees, and long streaks of foam appear on the ocean
9 (strong gale)	47 - 55	75- 89	41-47	branches break from trees
10 (whole gale)	56 - 64	90- 103	48-55	trees are uprooted, and the sea takes on a foamy white appearance
11 (storm)	65 - 74	104- 119	56-63	widespread damage
12 (hurricane)	75+	120 +	64 +	structural damage on land and intense storm waves at sea

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