



BEAL:FORT SCALE + SAFFiR-SiMPSON HURRICANE



Quick Reference: Knots to MPH Conversion

Yachtly Crew

BERL·FORT SCRLE

achtly chew

A scale of wind speed based on a visual estimation of the wind's effects, ranging from force O (less than 1 knot

or 1 mph, "calm") to force 12 (64 knots or 74 mph and above, "hurricane").

J Yachtly Crew

SAFFIQ-SIMPSON HURRICANE SCALE

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The Saffir-Simpson Hurricane Wind Scale is a 1 to 5 rating based on a hurricane's sustained wind

speed. This scale estimates potential property damage.





KNDTS VS MPH

One knot equals one nautical mile per hour, or roughly 1.15 statute mph

1 knot = 1.15 mph



DLICK REFERENCE: KNDTS TO MPH CONVERSION

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Knots & MPH

- 5 Knots = 5.8 MPH
- 10 Knots = 11.5 MPH
- 15 Knots = 17.3 MPH
- 20 Knots = 23.0 MPH
- 25 Knots = 28.8 MPH
- 30 Knots = 34.6 MPH

35 Knots = 40.3 MPH 40 Knots = 46.1 MPH 45 Knots = 51.8 MPH 50 Knots = 57.6 MPH 55 Knots = 63.4 MPH



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Knots & MPH

- 60 Knots = 69.1 MPH
- 65 Knots = 74.9 MPH
- 70 Knots = 80.6 MPH
- 75 Knots = 86.4 MPH
- 80 Knots = 92.2 MPH
- 85 Knots = 97.9 MPH

90 Knots = 103.7 MPH 95 Knots = 109.4 MPH 100 Knots = 115.2 MPH 105 Knots = 121.0 MPH 110 Knots = 126.7 MPH

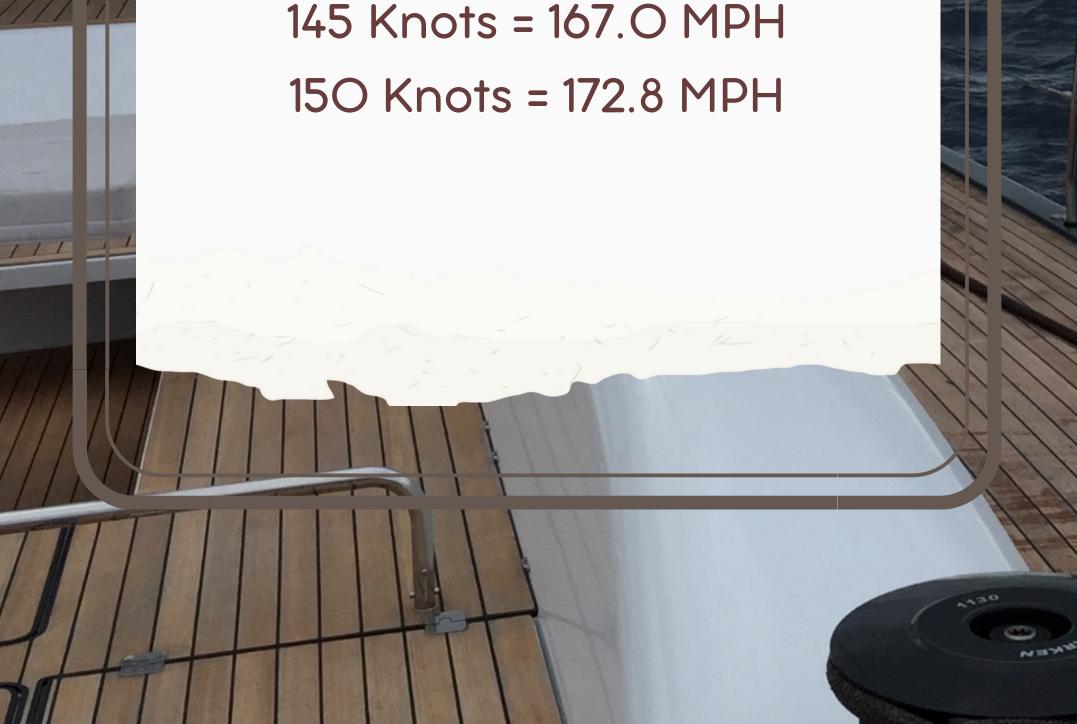


DLICK REFERENCE: KNOTS TO MPH CONVERSION

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Knots & MPH

- 115 Knots = 132.5 MPH 120 Knots = 138.2 MPH
- 125 Knots = 144.0 MPH
- 130 Knots = 149.8 MPH
- 135 Knots = 155.5 MPH
- 140 Knots = 161.3 MPH





BEAU·FORT SCALE Force 0

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Calm – Sea like a mirror. Calm; smoke rises vertically.

0 - 1 mph ~ 0 - 1 knots



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Light Air – Ripples with the appearance of scales are formed, but without foam crests.

1 - 3 mph ~ 1 - 3 knots



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Light Breeze – Direction of wind shown by smoke drift, but not by wind vanes. Small wavelets, still short, but more pronounced. Crests

have a glassy appearance and do not break

4 - 7 mph ~ 4 - 6 knots



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Gentle Breeze – Large wavelets. Crests begin to break. Foam of glassy appearance. Perhaps scattered white horses.

8 - 12 mph ~ 7 - 10 knots



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Moderate Breeze – Small waves, becoming larger; fairly frequent white horses. Raises dust and loose paper; small branches are moved.

13 - 18 mph ~ 11 - 16 knots



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Fresh Breeze – Moderate waves, taking a more pronounced long form; many white horses are formed. Small trees in leaf begin to sway; crested wavelets form

on inland waters.

19 - 24 mph ~ 17 - 21 knots



BEAL·FORT SCALE Force 6

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Strong Breeze – Large waves begin to form; the white foam crests are more extensive everywhere. Large branches in motion; whistling heard in telegraph wires;

umbrellas used with difficulty.

25 - 31 mph ~ 22 - 27 knots



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Near Gale – Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind. Whole trees in motion;

inconvenience felt when walking against the wind.

32 - 38 mph ~ 28 - 33 knots



rchly chew

Force 8

Gale – Moderately high waves of greater length; edges of crests begin to break into spindrift. The foam is blown in well-marked streaks along the direction of the wind.

Breaks twigs off trees; generally impedes progress.

39 - 46 mph ~ 34 - 40 knots



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Force 9

Severe Gale – High waves. Dense streaks of foam along the direction of the wind. Crests of waves begin to topple, tumble and roll over. Spray may affect visibility Slight structural damage occurs (chimney-pots and slates removed)

47 - 54 mph ~ 41 - 47 knots



BEAL·FORT SCALE Force 10

rchly chew

Storm - Very high waves with long overhanging crests. The resulting foam, in great patches, is blown in dense white streaks along the direction of the wind. On the whole the surface of the sea takes on a white appearance.

55 - 63 mph ~ 48 - 55 knots



EEAL·FORT SCALE Force 10

chly chew

Storm – The tumbling of the sea becomes heavy and shock–like. Visibility affected. Seldom experienced inland; trees uprooted; considerable structural damage occurs.

55 - 63 mph ~ 48 - 55 knots



achtly chew

Force 11 Violent Storm - Exceptionally high waves (small and medium-size ships might be for a time lost to view behind the waves). The sea is completely covered with long white patches of foam lying along the direction of the wind. Everywhere the edges of the wave crests are blown into froth. Visibility affected. 64 - 72 mph ~ 56 - 63 knots



BEAL·FORT SCALE Force 12

achtly chew

Hurricane – Very rarely experienced; accompanied by wide-spread damage. The air is filled with foam and spray. Sea completely white with driving spray; visibility

very seriously affected.

72 - 83 mph ~ 64 - 71 knots



SAFFIR-SIMPSON HURRICANE SCALE Category One

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Very dangerous winds will produce some damage: Wellconstructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be

toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.

74 - 95 mph ~ 64 - 82 knots



SAFFIR-SIMPSON HURRICANE SCALE Category Two

chly chew

Extremely dangerous winds will cause extensive damage: Wellconstructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Neartotal power loss is expected with outages that could last from several days to weeks.

95 - 110 mph ~ 83 - 95 knots



SAFFIR-SIMPSON HURRICANE SCALE Category Three

chly chew

Devastating damage will occur: Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.

111 - 129 mph ~ 96 - 112 knots



SAFFIR-SIMPSON HURRICANE SCALE Category Four

chly chew

Catastrophic damage will occur: Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

130 - 156 mph ~ 113 - 136 knots



SAFFIR-SIMPSON HURRICANE SCALE Category Five

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Catastrophic damage will occur: A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for

weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

157+ mph ~ 137+ knots