



➔ Based on the Beaufort Scale (Sir Francis Beaufort (1774 - 1857))

| Force | -----Speed (mph)----- | | Description |
|--------------|------------------------------|----------------|--------------------|
| | Range | Average | |
| 0 | <1 | - | Calm |
| 1 | 1 – 3 | 2 | Light Wind |
| 2 | 4 – 7 | 5 | Light Breeze |
| 3 | 8 – 12 | 10 | Gentle Breeze |
| 4 | 13 – 18 | 15 | Moderate Breeze |
| 5 | 19 – 24 | 21 | Fresh Breeze |
| 6 | 25 – 31 | 28 | Strong breeze |
| 7 | 32 – 38 | 35 | Moderate Gale |
| 8 | 39 – 46 | 42 | Fresh Gale |
| 9 | 47 – 54 | 51 | Strong gale |
| 10 | 55 – 63 | 59 | Whole gale |
| 11 | 64 – 75 | 68 | Storm |
| 12 | >75 | - | Hurricane |

Where V = mean wind speed in miles/hour

B = Beaufort wind force

Then $V = (1.52B)^{3/2}$