

Wind Conversion

From the user, we are given a wind value and the unit to convert.

To convert between miles per hour (*mph*) and knots (*kts*):

$$Wind_{kts} = 0.8689762 \times Wind_{mph}$$

$$Wind_{mph} = 1.1507794 \times Wind_{kts}$$

To convert between miles per hour (*mph*) and meters per second (m/s):

$$Wind_{m/s} = 0.44704 \times Wind_{mph}$$

$$Wind_{mph} = 2.23694 \times Wind_{m/s}$$

To convert between miles per hour (*mph*) and feet per second (ft/s):

$$Wind_{ft/s} = 1.46667 \times Wind_{mph}$$

$$Wind_{mph} = 0.681818 \times Wind_{ft/s}$$

To convert between miles per hour (*mph*) and kilometers per hour (km/h):

$$Wind_{km/h} = 1.609344 \times Wind_{mph}$$

$$Wind_{mph} = 0.621371 \times Wind_{km/h}$$

To convert between knots (*kts*) and meters per second (m/s):

$$Wind_{m/s} = 0.5144444 \times Wind_{kts}$$

$$Wind_{kts} = 1.9438445 \times Wind_{m/s}$$

To convert between knots (*kts*) and feet per second (ft/s):

$$Wind_{ft/s} = 1.6878099 \times Wind_{kts}$$

$$Wind_{kts} = 0.5924838 \times Wind_{ft/s}$$

To convert between knots (*kts*) and kilometers per hour (km/h):

$$Wind_{km/h} = 1.852 \times Wind_{mph}$$

$$Wind_{mph} = 0.5399568 \times Wind_{km/h}$$

To convert between meters per second (m/s) and feet per second (ft/s):

$$Wind_{m/s} = 0.3048 \times Wind_{ft/s}$$

$$Wind_{ft/s} = 3.28084 \times Wind_{m/s}$$

To convert between meters per second (m/s) and kilometers per hour (km/h):

$$Wind_{km/h} = 3.6 \times Wind_{m/s}$$

$$Wind_{m/s} = 0.277778 \times Wind_{km/h}$$

To convert between feet per second (ft/s) kilometers per hour (km/h):

$$Wind_{km/h} = 1.09728 \times Wind_{ft/s}$$

$$Wind_{ft/s} = 0.911344 \times Wind_{km/h}$$