

Velocity

Conversion Factors¹

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Mass (Weights)

1 U.S. ton = 2,000 lbs = 0.97 metric tons1 mph = 5,280 ft/hr = 88 ft/min = 1.467 ft/sec1 lb = 16 oz = 453.6 g = 0.4356 kg1 m/sec = 196.85 ft/min = 2.24 mph1 oz = 28.35 g1 m/sec = 1.942 knotsArea Pressure 1 sq mile = 640 A1 atm = 14.7 psi = 406.8 inches $H_2O @ 40 \degree F$ 1/4 mi x 1/4 mi = 40 A1 atm = 29.92 inches Hg @ 40 $^{\circ}$ F = 760 mm Hg @ 4 °C 1,320 ft x 1,320 ft = 40 A1 atm = 1.01325 bar1 A = 43,560 sq ft = 0.405 ha1 psi = 27.68 inches H₂O @ 40 °F = 144 lb/ft² = 703.06 kg/m² @ 4 °C² $1 ha = 2.47 A = 10.000 m^2$ $1 \text{ yd}^2 = 9 \text{ ft}^2 = 0.836 \text{ m}^2$ $1 \text{ psi} = 6.8948 \text{ x } 10^3 \text{ pascals} = 6.895 \text{ Kpa} = 2.036$ inches Hg $1 \text{ ft}^2 = 144 \text{ in}^2 = 0.09 \text{ m}^2$ $1 \text{ psi} = 70.3 \text{ g per cm}^2$ $1 \text{ cm}^2 = 0.155 \text{ in}^2$ $1 \text{ pascal} = 10 \text{ dynes/cm}^2 = 1.45 \text{ x } 10^{-4} \text{ psi}$ $#A = [length (ft) x width (ft)] \div 43,560 ft^2$

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Conversion Factors

Temperature	1 bu rye = 56 lbs
$^{\circ}F = (9/5 \ ^{\circ}C) + 32$	1 bu sorghum, forage = 50 lbs
$^{\circ}C = 5/9 (^{\circ}F-32)$	1 bu sorghum, grain = 56 lbs
$^{\circ}K = ^{\circ}C + 273.16$	1 bu soybeans $= 60$ lbs
$^{\circ}R = ^{\circ}F + 459.69$	Abbreviations (in alphabetical order)
Length	A = acre
1 mi = 5,280 ft = 1.6093 km	atm - atmospharas
1 yd = 3 ft = 36 in = 91.44 cm	ann – annospheres
1 ft = 12 in = 30.48 cm	bu = bushel
1 in = 2.54 cm	C = cups
Liquid	°C = Degrees Celcius
1 gal = 231 in ³ = 4 qt = 8 pt = 16 C = 8.4 lb (water)	cc = cubic centimeters
1 gt = 2 pt = 4 C = 32 fl oz = 0.946 L = 946 ml	cm = centimeter
1 pt = 2 C = 16 fl oz = 0.473 L = 473 ml = 32 tbsp	$cm^2 = square centimeters$
1 C = 8 oz = 0.24 L = 240 ml = 0.5 pt = 16 thsp	°F = Degrees Fahrenheit
1 fl oz = 2 then = 6 ten = 1.8 in ³ = 0.02957 L = 29.57	fl oz = fluid ounces
ml	ft = foot
1 tbsp = 3 tsp = 0.5 oz = 14.78 ml	$ft^2 = square feet$
1 tsp = 0.166 oz = 4.92 ml	g = gram
1 ml = 0.0338 fl oz = 1 cc	gal = gallon
Commodity Weights	ha = hectare
1 bu barley = 48 lbs	Hg = mercury
1 bu $corn = 56$ lbs	hr = hour
1 bu cotton = 32 lbs	in = inch
1 bu cotton bale = 480 lbs	$in^2 = square inches$
1 bu cowpeas = 60 lbs	$in^3 = cubic$ inches
1 bu crimson clover = 60 lbs	°K = Degrees Kelvin
1 bu oat and fescue = 32 lbs	kg = kilogram

Conversion Factors

km = kilometer	
Kpa = kilopascals	
L = liter	

lb = pound

m = meter

 $m^2 = square meters$

mi = mile

 $\min = \min$ ute

ml = milliliter

mm = millimeter

mph = miles per hour

oz = ounce

psi = pounds per square inch

pt = pint

qt = quart

°R = Degrees Rankin

sec = second

sq = square

tbsp = tablespoon

tsp = teaspoon

yd = yard

 $yd^2 = square yards$