

WEIGHTS AND MEASURES—U.S. TO METRIC

U.S. System			Metric Equivalent
Length			
	<u>Unit</u>	<u>Abbreviation</u>	<u>Equivalents in Other Units</u>
Mile	mi		5280 feet, 320 rods, 1760 yards
Rod	rd		5.50 yards, 16.5 feet
Yard	yd		3 feet, 36 inches
Foot	ft or '		12 inches, 0.333 yards
Inch	in or "		0.083 feet, 0.027 yards
Area			
	<u>Unit</u>	<u>Abbreviation</u>	<u>Equivalents in Other Units</u>
Square Mile	sq mi or m ²		640 acres, 102,400 square rods
Acre	a		4840 square yards, 43,560 square feet
Square Rod	sq rd or rd ²		30.25 square yards, 0.006 acres
Square Yard	sq yd or yd ²		1296 square inches, 9 square feet
Square Foot	sq ft or ft ²		144 square inches, 0.111 square yards
Square Inch	sq in or in ²		0.007 square feet, 0.00077 square yards
Volume			
	<u>Unit</u>	<u>Abbreviation</u>	<u>Equivalents in Other Units</u>
Cubic Yard	cu yd or yd ³		27 cubic feet, 46,656 cubic inches
Cubic Foot	cu ft or ft ³		1728 cubic inches, 0.0370 cubic yards
Cubic Inch	cu in or in ³		0.00058 cubic feet, 0.000021 cubic yards
Mass & Weight			
	<u>Unit</u>	<u>Abbreviation</u>	<u>Equivalents in Other Units</u>
Ton	tn (seldom used)		
short ton			20 short hundredweight, 2000 pounds
long ton			20 long hundredweight, 2240 pounds
Hundredweight	cwt		
short hundredweight			100 pounds, 0.05 short tons
long hundredweight			112 pounds, 0.05 long tons
Pound	lb or lb av also #		16 ounces, 7000 grains
Ounce	oz or oz av		16 drams, 437.5 grains
Dram	dr or dr av		27.343 grains, 0.0625 ounces
Grain	gr		0.036 drams, 0.002285 ounces
Capacity			
	<u>Unit</u>	<u>Abbreviation</u>	<u>U.S. Liquid Measure</u>
Gallon	gal		4 quarts (231 cubic inches)
Quart	qt		2 pints (57.75 cubic inches)
Pint	pt		4 gills (28.875 cubic inches)
Gill	gi		4 fluidounces (7.218 cubic inches)
Fluidounce	fl oz		8 fluidrams (1.804 cubic inches)
Fluidram	fl dr		60 minums (0.225 cubic inches)
Minim	min		1/60 fluidram (0.003759 cubic inches)

WEIGHTS AND MEASURES—U.S. TO METRIC (Continued)

U.S. System (Continued)			Metric Equivalent (Continued)
Power			
Horsepower	<u>Unit</u>	<u>Abbreviation</u>	0.746 kilowatt
Heat			
British thermal unit	<u>Unit</u>	<u>Abbreviation</u>	0.293 watt
Pressure or Vacuum			
Pounds per square inch	<u>Unit</u>	<u>Abbreviation</u>	6.895 kilopascal
Torque			
ounce inch	<u>Unit</u>	<u>Abbreviation</u>	0.007 newton-meters
ounce inch		oz/in.	
pound foot		lb/in.	0.113 newton-meters
pound foot		lb/ft	1.346 newton-meters
Temperature			
Fahrenheit	<u>Unit</u>	<u>Abbreviation</u>	$(^{\circ}\text{F} - 32) \cdot 0.556 = ^{\circ}\text{C}$
		$^{\circ}\text{F}$	