

Conversion from Customary US Measures to Metric Units

To Convert from:		To		Multiply by:	Conversion
Unit	Symbol	Unit	Symbol	Factor	Equation
Length					
inch	in	centimeter	cm	2.54	__ in x 2.54 = __ cm
foot	ft	centimeter	cm	30.48	__ ft x 30.48 = __ cm
yard	yd	meter	m	0.91	__ yd x 0.91 = __ m
mile	mi	kilometer	km	1.61	__ mi x 1.61 = __ km
Area					
square inch	in ²	square centimeter	cm ²	6.45	__ in ² x 6.45 = __ cm ²
square foot	ft ²	square meter	m ²	0.09	__ ft ² x 0.09 = __ m ²
square yard	yd ²	square meter	m ²	0.84	__ yd ² x 0.84 = __ m ²
square mile	mi ²	square kilometer	km ²	2.59	__ mi ² x 2.59 = __ km ²
acre	ac	hectare	ha	0.41	__ ac x 0.41 = __ ha
Mass					
ounce	oz	gram	g	28.35	__ oz x 28.35 = __ g
pound	lb	kilogram	kg	0.45	__ lb x 0.45 = __ kg
short ton (2000 lb)	tn	metric ton	t	0.91	__ tn x 0.91 = __ t
Volume					
teaspoon	tsp	milliliter	mL	4.93	__ tsp x 4.93 = __ mL
tablespoon	Tbsp	milliliter	mL	14.79	__ Tbsp x 14.79 = __ mL
cubic inch	in ³	milliliter	mL	16.39	__ in ³ x 16.39 = __ mL
fluid ounce	fl oz	milliliter	mL	29.57	__ fl oz x 29.57 = __ mL
cup	c	liter	L	0.24	__ c x 0.24 = __ L
pint, liquid	pt	liter	L	0.47	__ pt x 0.47 = __ L

Volume					
quart, liquid	qt	liter	L	0.95	__ qt x 0.95 = __ L
gallon	gal	liter	L	3.79	__ gal x 3.79 = __ L
cubic foot	ft ³	cubic meter	m ³	0.03	__ ft ³ x .03 = __ m ³
cubic yard	yd ³	cubic meter	m ³	0.76	__ yd ³ x 0.76 = __ m ³
Temperature					
degree Fahrenheit	°F	degree Celsius	°C	subtract 32, divide by 1.8	(__ °F -32) / 1.8 = __ °C
degree Fahrenheit	°F	Kelvin	K	subtract 32, divide by 1.8, add 273.15	((__ °F -32) / 1.8) +273.15 = __ K
Speed					
miles per hour	mph	kilometers per hour	km/h	1.6	__ mph x 1.6 = __ km/h
feet per second	fps	meters per second	m/s	0.305	__ fps x 0.304 = __ m/s
Flow					
gallons per minute	gpm	liters per minute	L/min	3.79	__ gpm x 3.79 = __ L/min
cubic feet per hour	ft ³ /hr	cubic meters per minute	m ³ /hr	0.0283	__ ft ³ /hr x 0.0283 = __ m ³ /hr
Pressure					
pounds per square inch	psi	kilopascal	kPa	6.89	__ psi x 6.89 = __ kPa
pounds per square inch	psi	bar	bar	0.0689	__ psi x 0.0689 = __ bar
inches of water	WC	torr	torr	1.86	__ WC x 1.86 = __ torr
inches of water	WC	kilopascal	kPa	0.248	__ WC x 0.248 = __ kPa
Energy					
British Thermal Unit	BTU	kilocalorie	kcal	0.25	__ BTU x 0.25= __ kcal
British Thermal Unit	BTU	kilowatt-hour	kWh	0.000293	__ BTU x 0.000293= __ kWh
British Thermal Unit	BTU	joule	J	1055	__ BTU x 1055 = __ J

Power					
Horsepower	hp	kilowatt	kW	0.745	__ hp x .745 = __ kW
British Thermal Units per hour	BTU/h	kilowatt	kW	0.000293	__ BTU/h x 0.000293 = __ kW