



Extension FactSheet

Horticulture and Crop Science, 2001 Fyffe Court, Columbus, OH 43210-1096

English and Metric Conversions

English to Metric

Acres	X	0.405	=	Hectares (ha)
Cubic inches	X	16.39	=	Cubic centimeters (cc)
Cup	X	236.5	=	Milliliters (ml)
Feet	X	0.3048	=	Meters (m)
Feet	X	30.48	=	Centimeters (cm)
Fluid ounce	X	29.57	=	Milliliters (ml)
Gallons	X	3,785	=	Cubic centimeters (cc)
Gallons	X	3.785	=	Liters (l)
Grains	X	0.0648	=	Grams (g)
Inches	X	2.54	=	Centimeters (cm)
Miles	X	1.69093	=	Kilometers (km)
Ounces (dry)	X	28.3495	=	Grams (g)
Ounces (liquid)	X	29.573	=	Cubic centimeters (cc)
Pints	X	473	=	Milliliters (ml)
Pints (liquid)	X	0.4732	=	Liters (l)
Pounds	X	453.5924	=	Grams (g)
Pounds	X	0.45359	=	Kilograms (kg)
Pounds per acre	X	1.12	=	Kilograms/hectare (kg/ha)
Quarts	X	946	=	Milliliters (ml)
Quarts (liquid)	X	0.9463	=	Liters (l)
Tablespoon	X	15	=	Milliliters (ml)
Teaspoon	X	5	=	Milliliters (ml)
Ton	X	907.1849	=	Kilograms (kg)
Yards	X	0.9144	=	Meters (m)

English to English

Acres	X	43,560	=	Square feet
Acres	X	4047	=	Square meters
Acres	X	160	=	Square rods
Acres	X	4,840	=	Square yards
Bushels	X	2,150.42	=	Cubic inches
Bushels	X	4	=	Pecks
Bushels	X	1.25	=	Cubic feet
Bushels	X	32	=	Quarts
Cord (4' x 4' x 8')	X	8	=	Cord feet
Cord foot (4' x 4' x 1')	X	16	=	Cubic feet
Cubic feet	X	1,728	=	Cubic inches
Cubic feet	X	0.03704	=	Cubic yards
Cubic feet	X	7.4805	=	Gallons
Cubic feet	X	29.92	=	Quarts (liquid)
Cubic yards	X	27	=	Cubic feet

Cubic yards	X	46,656	=	Cubic inches
Cubic yards	X	0.7646	=	Cubic meters
Cubic yards	X	202	=	Gallons
Cubic yards	X	807.9	=	Quarts (liquid)
Cup	X	8	=	Fluid ounces
Cup	X	0.25	=	Quarts
Cup	X	16	=	Tablespoons
Cup	X	48	=	Teaspoons
Degree Celsius +18	X	1.8	=	Degree Fahrenheit
Degree Fahrenheit -32	X	0.5555	=	Degree Celsius
Fathom	X	6	=	Feet
Feet	X	12	=	Inches
Feet	X	0.33333	=	Yards
Feet per minute	X	0.01667	=	Feet per second
Feet per minute	X	0.01136	=	Miles per hour
Fluid ounce	X	2	=	Tablespoons
Fluid ounce	X	6	=	Teaspoons
Furlong	X	40	=	Rods
Gallons	X	0.1337	=	Cubic feet
Gallons	X	231	=	Cubic inches
Gallons	X	128	=	Ounces (liquid)
Gallons	X	4	=	Quarts (liquid)
Gallons of water	X	8.3453	=	Pounds of water
Hundred wt (cwt.)	X	100	=	Pounds
Inches	X	0.08333	=	Feet
Inches	X	0.02778	=	Yards
Miles	X	5,280	=	Feet
Miles	X	320	=	Rods
Miles	X	1,760	=	Yards
Miles per hour	X	88	=	Feet per minute
Miler per hour	X	1.467	=	Feet per second
Miles per minute	X	88	=	Feet per second
Miles per minute	X	60	=	Miles per hour
Ounces (dry)	X	0.0625	=	Pounds
Ounces (liquid)	X	1.805	=	Cubic inches
Ounces (liquid)	X	0.0078125	=	Gallons
Ounces (liquid)	X	0.03125	=	Quarts (liquid)
Ounces	X	16	=	Drams
Pecks	X	0.25	=	Bushels
Pecks	X	537.605	=	Cubic inches
Pecks	X	8	=	Quarts (dry)
Pints	X	28.875	=	Cubic inches

Pints	X	2	=	Cups
Pints	X	0.125	=	Gallons
Pints	X	32	=	Tablespoons
Pints (dry)	X	0.015625	=	Bushels
Pints (dry)	X	33.6003	=	Cubic inches
Pints (dry)	X	0.0625	=	Pecks
Pints (dry)	X	0.5	=	Quarts (dry)
Pints (liquid)	X	28.875	=	Cubic inches
Pints (liquid)	X	0.125	=	Gallons
Pints (liquid)	X	16	=	Ounces (liquid)
Pints (liquid)	X	0.5	=	Quarts (liquid)
Pounds	X	7,000	=	Grains
Pounds	X	16	=	Ounces
Pounds	X	0.0005	=	Tons
Pounds of water	X	0.01602	=	Cubic feet
Pounds of water	X	27.68	=	Cubic inches
Pounds of water	X	0.1198	=	Gallons
Quarts (dry)	X	0.03125	=	Bushels
Quarts (dry)	X	67.20	=	Cubic inches
Quarts (dry)	X	0.125	=	Pecks
Quarts (dry)	X	2	=	Pints (dry)
Quarts (liquid)	X	57.75	=	Cubic inches
Quarts (liquid)	X	0.25	=	Gallons
Quarts (liquid)	X	32	=	Ounces (liquid)
Quarts (liquid)	X	2	=	Pints (liquid)
Rods	X	16.5	=	Feet
Square feet	X	0.0000229	=	Acres
Square feet	X	144	=	Square inches
Square feet	X	0.11111	=	Square yards
Square inches	X	0.00694	=	Square feet
Square miles	X	640	=	Acres
Square miles	X	27,878,400	=	Square feet
Square miles	X	3,097,600	=	Square yards
Square yards	X	0.0002066	=	Acres
Square yards	X	9	=	Square feet
Square yards	X	1,296	=	Square inches
Tablespoon	X	3	=	Teaspoons
Tablespoon	X	0.5	=	Fl. ounces
Teaspoon	X	0.17	=	Fl. ounces
Ton	X	32,000	=	Ounces
Ton (long)	X	2,240	=	Pounds
Ton (short)	X	2,000	=	Pounds
Yards	X	3	=	Feet
Yards	X	36	=	Inches
Yards	X	0.000568	=	Miles

Metric to Metric

Centimeters	X	0.01	=	Meters
Centimeters	X	10	=	Millimeters
Grams	X	0.001	=	Kilograms
Grams	X	1,000	=	Milligrams
Kilogram	X	1,000	=	Grams
Liters	X	0.001	=	Cubic centimeters
Meters	X	100	=	Centimeters
Meters	X	0.001	=	Kilometers
Meters	X	1,000	=	Millimeters
Square meters	X	0.001	=	Hectares
Cubic meters	X	1,000,000	=	Cubic centimeter

Metric to English

Centimeters	X	0.3937	=	Inches
Cubic centimeter	X	0.061	=	Cubic inches
Cubic meters	X	1.308	=	Cubic yards
Cubic meters	X	35.31	=	Cubic feet
Cubic meters	X	61,023	=	Cubic inches
Cubic meters	X	264.2	=	Gallons
Cubic meters	X	1,057	=	Quarts (liquid)
Grams	X	15.43	=	Grains
Grams	X	0.0353	=	Ounces
Grams/liter	X	1,000	=	Parts per million
Hectares	X	2.471	=	Acres
Kilograms	X	2.205	=	Pounds
Kilograms/hectare	X	0.8929	=	Pounds per acre
Kilometers	X	3,281	=	Feet
Kilometers	X	0.6214	=	Miles
Kilometers	X	1,094	=	Yards
Knot	X	6,086	=	Feet
Liters	X	1,000	=	Cubic centimeters
Liters	X	0.0353	=	Cubic feet
Liters	X	61.02	=	Cubic inches
Liters	X	0.2642	=	Gallons
Liters	X	1.057	=	Quarts (liquid)
Liters	X	0.908	=	U.S. dry quart
Meters	X	3.281	=	Feet
Meters	X	39.37	=	Inches
Meters	X	1.094	=	Yards
Milliliter	X	0.034	=	Fluid ounces

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