

# Conversion Factors for Metric and U.S. Units

To convert column 1 into column 2, multiply by	Column 1	Column 2	To convert column 2 into column 1, multiply by
<b>Length</b>			
0.621	kilometer, km	mile, mi	1.609
1.094	meter, m	yard, yd	0.914
0.394	centimeter, cm	inch, in	2.54
<b>Area</b>			
0.386	kilometer <sup>2</sup> , km <sup>2</sup>	mile <sup>2</sup> , mi <sup>2</sup>	2.590
247.1	kilometer <sup>2</sup> , km <sup>2</sup>	acre, acre	0.00405
2.471	hectare, ha	acre, acre	0.405
<b>Volume</b>			
0.00973	cubic meter, m <sup>3</sup>	acre-inch	102.8
3.532	hectoliter, hl	cubic foot, ft <sup>3</sup>	0.2832
2.838	hectoliter, hl	bushel, bu	0.352
0.0284	liter, l	bushel, bu	35.24
1.057	liter, l	quart (liquid), qt.	0.946
<b>Mass</b>			
1.102	tonne (metric)	ton (short)	0.9072
2.205	quintal, q	hundredweight, cwt (short)	0.454
2.205	kilogram, kg	pound, lb	0.454
0.035	gram, g	ounce (avdp), oz	28.35
<b>Yield or Rate</b>			
0.446	tonne (metric)/hectare	ton (short)/acre	2.240
0.891	kg/ha	lb/acre	1.12
0.891	quintal/hectare	hundredweight/acre	1.12
1.15	hectoliter/hectare, hl/ha	bu/acre	0.87
<b>Temperature</b>			
(1.8 x C) + 32	Celsius, C	Fahrenheit, F	0.56 x (F-32)
	-17.8°	0°F	
	0°C	32°F	
	20°C	68°F	
	100°C	212°F	

### Metric Prefix Definitions

mega	1,000,000	deca	10	centi	0.01
kilo	1,000	basic metric unit	1	milli	0.001
hecto	100	deci	0.1	micro	0.000001

### To convert U.S. crop yields from bushels per acre (bu/A) to metrics:

Corn — bu/A x 0.063 = tonnes/ha

Wheat — bu/A x 0.067 = tonnes/ha

Soybeans — bu/A x 0.067 = tonnes/ha

Grain Sorghum — bu/A x 0.056 = tonnes/ha