

**CONVERSION FACTORS  
ENGLISH VS. METRIC**

<b>To convert Column 1 into Column 2, multiply by:</b>			<b>To convert Column 2 into Column 1 multiply by:</b>
	<b>Column 1</b>	<b>Column 2</b>	

**Length**

.621	kilometer, km	mile	1.609
1.094	meter, m	yard	.914
3.281	meter, m	foot, ft	.3048
39.4	meter, m	inch	.0254
.03281	centimeter, cm	foot, ft	30.47
.394	centimeter, cm	inch	2.54
.0394	millimeters, mm	inches	25.40

metric: 1 km = 1000 m; 1 meter = 100 cm; 1 meter = 1000 mm  
 English: 1 mile = 5280 ft; 1 mile = 1760 yards; 1 yard = 3 ft;  
 1 ft = 12 inches

**Area**

247.1	kilometers <sup>2</sup> , km <sup>2</sup>	acre	.004047
2.471	hectare, ha	acre	.4047
.4047	trees/hectare	trees/acre	2.471

metric: 1 ha = 10,000 m<sup>2</sup> = .01 km<sup>2</sup>  
 English: 1 acre = 43,560 ft<sup>2</sup>

**Volume**

1.057	liter	quart (US)	.946
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English: 1 US gallon = 4 quarts

**Mass—Weight**

1.102	ton (metric), MT	ton (English)	.9072
2.205	kilogram (kg)	pound, lb	.454
52.5	ton (metric) of apples	apple packed box, *carton	.01905

metric: 1 metric ton = 1000 kg  
 English: 1 ton = 2000 lb; 1 packed box or carton\* of apples = 42 lb

**Yield or Rate**

0.446	ton (metric)/hectare, MT/ha	ton (English)/acre	2.242
.892	kilogram/hectare, kg/ha	pound/acre	1.121
.991	ton (metric) of apples/hectare, MT/ha	bins* of apples/acre	1.009
.4047	trees/hectare	trees/acre	2.471
0.107	liter/hectare	gallon (US)/acre	9.354

metric: 1 metric ton = 1000 kg; 1 hectare = 10,000 m<sup>2</sup>  
 English: 1 ton = 2000 lb; apple bin\* = 900 lb; 1 acre = 43,560 ft<sup>2</sup>

**Temperature**

1.8 C + 32	Celsius, C	Fahrenheit, F	.555 (F-32)
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*\*Commercial cartons (packed boxes) of fruit and field/storage bins of fruit do not have universal weights. The weight of fruit in a packed box or carton varies around the world and with the type of fruit, but is here taken for apples as 42 lbs (19.05 kg); the weight of fruit in a bin also varies but is here taken for apples as 900 lbs (408.2 kg).*