

Metric conversion

Conversion to the metric system was initiated in the *Canada Year Book 1976-77*. In view of the degree of metric conversion in Canada since then, most quantities in the *Canada Year Book 1980-81* appear only in SI metric or in neutral units such as dollars or dozens.

Following are conversion factors for units used in the present edition and some others in common use. Conversions are from SI metric to traditional units. For a full listing of the mathematical relationships between traditional units and SI metric, readers are referred to *Canadian Metric Practice Guide*, published by the Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ont. M9W 1R3. The same number of significant digits is used in the conversion factors which follow as in the *Canadian Metric Practice Guide*. If users do not need this level of accuracy, they can round off figures at any number of digits, either in the calculations or in the results. It is a requirement in SI metric to use spaces instead of commas to separate groups of three digits; a space is optional with a four-digit number. Although this practice is not imperative with neutral units, it is taking place in many cases now and will undoubtedly come about generally through standardization. In all Statistics Canada publications, a period is used as a decimal marker.

Relative weights and measures: SI Metric, Canadian Imperial and United States units

Area

1 km² (square kilometre) = 0.3861022 square miles
1 ha (hectare) = 2.471054 acres

Length

1 m (metre) = 39.37 inches
= 3.281 feet
= 1.094 yards
1 km (kilometre) = 0.6213712 statute miles = 3,280.840 feet
= 0.5399568 nautical miles = 3,282.937 feet

Volume and capacity

1 dm³ (cubic decimetre) = 0.0353147 cubic feet
= 0.4237760 board feet (for lumber)
= 0.0274962 bushels (for grain)
= 1 L (litre) (for liquids or, in some cases, for fine solids which pour)
= 0.2199693 Canadian gallons
= 35.1951 fluid ounces
= 0.8798774 quarts
= 1.75975 pints
= 0.264172 US gallons
= 1.05669 US quarts
= 2.11338 US pints
1 imperial proof gallon = 1.36 US proof gallons
1 m³ (cubic metre) = 6.289811 barrels (petroleum or other liquid)
= 0.3531466 registered tons (in shipping)*
= 35.31466 cubic feet

Mass (weight)

1 g (gram) = 0.03527396 ounces (avoirdupois)
= 0.03215075 ounces (troy or apothecary)
1 kg (kilogram) = 2.20462262 pounds (avoirdupois)
1 t (metric tonne) = 1.10231131 tons (short)
= 0.98420653 tons (long)

(For registered ton, see Volume and capacity above and footnote*)

Length and mass

1 t.km (tonne kilometre) = 0.6849446 short ton miles