

Relative weights and measures: Canadian imperial, United States and metric SI

The following are conversion factors for units in this edition of the *Canada Year Book* and some of the others in common use. For a fuller listing, readers are referred to *Canadian Metric Practice Guide*, published by the Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ont., M9W 1R3. In metric SI, spaces are used instead of commas to separate groups of three digits; a space is optional with a four-digit number. In all Statistics Canada publications, a period is used as a decimal marker.

Area

1 square mile = 2.589 988 km² (square kilometres)
 1 acre = 4 046.856 m² (square metres) = 0.404 685 6 ha (hectare)

Length

1 inch = 0.025 4 m (metres)
 1 foot = 0.304 8 m
 1 statute mile = 5,280 feet = 1.609 344 km
 1 nautical mile = 6,080 feet = 1.852 km
 1 yard = 0.914 4 m

Volume and capacity

1 board foot (fbm) = 2.359 737 dm³ (cubic decimetres)
 1 cubic foot = 28.316 85 dm³
 1 bushel = 36.368 72 dm³
 1 gallon = 160 fluid ounces = 4.546 090 dm³ (cubic decimetres or litres)
 1 quart = 40 fluid ounces = 1.136 522 dm³
 1 pint = 20 fluid ounces = 0.568 261 dm³
 1 US gallon = 128 fluid ounces = 3.785 412 dm³
 1 US quart = 32 fluid ounces = 0.946 353 dm³
 1 US pint = 16 fluid ounces = 0.473 176 dm³
 1 imperial proof gallon = 1.36 US proof gallons
 1 barrel (petroleum or other liquid) = 34.9723 Canadian gallons = 42 US gallons = 0.158 987 3 m³
 1 registered ton = 100 cubic feet* = 2.831 685 m³

Mass (weight)

1 ounce (avoirdupois) = 0.91146 ounce troy (oz t) = 28.349 523 g (grams)
 1 ounce (troy or apothecary) = 31.103 476 8 g
 1 pound (avoirdupois) = 0.453 592 37 kg (kilograms)
 1 ton (short) = 2,000 pounds = 907.184 74 kg
 1 ton (long) = 2,240 pounds = 1 016.046 908 8 kg
 1 registered ton (see Volume and capacity above)

Length and mass

1 ton mile = 1.459 997 t.km (metric tonne kilometres)

Temperature

Fahrenheit temperature = 1.8 (Celsius temperature) + 32
 Celsius temperature = 5/9 (Fahrenheit temperature - 32)

The following weights and measures are used in connection with the principal field crops and fruits.

Crops (1 000 kg = 1 tonne)

	Pounds per bushel	Kilograms per bushel
Wheat, potatoes and peas	60	27.215 8
Oats	34	15.422 3
Barley and buckwheat	48	21.772 7
Rye, flaxseed and corn	56	25.401 4
Rapeseed, mustard seed, pears, plums, cherries, peaches and apricots	50	22.679 9
Sunflower seed	24	10.886 3
Apples	42	19.050 8

Miscellaneous

1 quart of strawberries or raspberries = 1.50 pounds (0.680 39 kg) in BC
 = 1.25 pounds (0.566 99 kg) in all other provinces
 It takes 2.3 bu (62.596 3 kg) of wheat to produce 100 lb. (45.359 2 kg) of flour.

*Gross registered tonnage of a ship, as used by *Lloyd's Register of Shipping*, is a measurement of the total capacity of the ship and is not a measure of weight. Net registered tonnage equals gross registered tonnage minus space used for accommodation, machinery, engine area and fuel storage, and so states the cargo carrying ability of the ship.