

## CONVERSION OF UNITS OF MEASUREMENT

### METRIC TO UNITED STATES CUSTOMARY UNITS

Metric Unit	Symbol	United States Unit	Symbol	Equivalency
centimeter	cm	inches		1 cm = 0.394 inches
cubic meter	m <sup>3</sup>	acre-foot <sup>a</sup>	ac-ft	1 m <sup>3</sup> = 0.00081 ac-ft
cubic meter per second	m <sup>3</sup>	cubic foot per second	cfs	1 m <sup>3</sup> = 35.3147 cfs
degrees Celsius	° C	degrees Fahrenheit	° F	32 ° F = 0 ° C
gram	g	ounce	oz	1 g = 0.035 oz
hectare	ha	acre	ac	1 ha = 2.471 ac
kilogram	kg	pound	lb	1 kg = 2.205 lb
kilometer	km	mile		1 km = 0.6214 mile
liter	L	quart	qt	1 L = 1.057 qt
meter	m	foot	ft	1 m = 3.28 ft
metric ton (1,000 kg)	t or mt <sup>b</sup>	pound	lb	1 t = 2,205 lb
microgram	µg	ounce	oz	1 µg = 3.5 x 10 <sup>6</sup> oz
milligram	mg	ounce	oz	1 mg = 3.5 x 10 <sup>5</sup> oz
milliliter	mL	fluid ounce	oz	1 mL = 0.0338 oz
millimeter	mm	inches		1 mm = 0.0394 inches
nanograms	ng	ounces	oz	1 ng = 3.5274 e <sup>-11</sup> oz
square kilometer	km <sup>2</sup>	square mile		1 km <sup>2</sup> = 0.386 square mile

a. An acre-foot (ac-ft) is the volume of liquid required to cover 1 acre to a depth of 1 foot (1 acre-foot = 43,560 cubic feet). This United States customary unit of measure is commonly used to express large volumes of water throughout the SFER, while related data may be stated in metric units.

b. Both symbols, t and mt, are being used in the 2017 SFER due to a lack of communication on the preferred symbol to be used. Only one will be used in future SFERs.

### CONCENTRATION UNITS <sup>a</sup>

Metric Unit	Symbol	Non-metric Unit	Symbol	Ratio Equivalent <sup>b</sup>
milligram per liter	mg/L	parts per million	ppm	1 ppm = 1 mg/L
microgram per liter	µg/L	parts per billion	ppb	1 ppb = 1 µg/L
nanogram per liter	ng/L	parts per trillion	ppt	1 ppt = 1 ng/L

a. In the SFER, water quality data are typically reported in metric units, such as µg/L or mg/L. Soil/sediment data are typically reported in micrograms per kilogram (µg/kg) or milligrams per kilogram (mg/kg). However, public policy documents and various permits and statutes often express this information in ppb or ppm, respectively. Therefore, these units may be shown in the report, depending on the appropriate context.

b. Assumes subject water has a density of 1 gram per milliliter.