Appendix H: **Units of Measure**

Appendix Table H-1 Base Units of Measure

This table presents the standard base units of measure that may be encountered throughout this text and the associated reference texts.

Measured Quantity	Symbol	Name
Temperature	°C	degrees Celsius
	°F	degrees Fahrenheit
Time	d	day
	h	hour
	m	minute
	s	second
	y	year
Length	ft or ’	foot
	in	inch
	m	meter
	yd	yard
Mass	g	gram
	lb	pound
Area	mi^2	square mile
	ft^2	square foot
	ft^3	cubic foot
	m^3	cubic meter
	yd^3	cubic yard
Volume	gal	gallon
	L	liter
Concentration	ppb	parts per billion
	ppm	parts per million
Rate	cfs	cubic feet per second
	gpm	gallons per minute
Conductivity	mho	mho
Radioactivity	Ci	curie
	cpm	counts per minute
	Bq	becquerel
	d/m or dpm	disintegrations per minute
Radiation Dose	rad	radiation absorbed dose
	rem	roentgen equivalent man
	Sv	sievert
	R	roentgen
	Gy	gray

Appendix Table H-2 Conversion Tables

These tables present the prefixes and conversions that may be encountered throughout this text and the associated reference texts.

Conversion Table (Fractions and Multiples of Units)

Multiple	Decimal Equivalent	Prefix	Symbol	Report Format
10^{6}	1,000,000	mega-	M	E+06
10^{3}	1,000	kilo-	k	E+03
10^{2}	100	hecto-	h	E+02
10	10	deka-	da	E+01
10^{-1}	0.1	deci-	d	E-01
10^{-2}	0.01	centi-	c	E-02
10^{-3}	0.001	milli-	m	E-03
10^{-6}	0.000001	micro-	µ	E-06
10^{-9}	0.000000001	nano-	n	E-09
10^{-12}	1E-12	pico-	p	E-12
10^{-15}	1E-15	femto-	f	E-15
10^{-18}	1E-18	atto-	a	E-18

Conversion Table (English and *Systeme International* Units)

Multiply	By	To Obtain	Multiply	By	To Obtain
in	2.54	cm	cm	0.394	in
ft	0.305	m	m	3.28	ft
mi	1.61	km	km	0.621	mi
lb	0.4536	kg	kg	2.205	lb
liq qt-US	0.945	L	L	1.057	liq qt-US
ft^2	0.093	m^2	m^2	10.764	ft^2
mi^2	2.59	km^2	km^2	0.386	mi^2
ft^3	0.028	m^3	m^3	35.31	ft^3
d/m	0.450	pCi	pCi	2.22	d/m
pCi	10^{-6}	µCi	µCi	10^{6}	pCi
pCi/L (water)	10^{-9}	µCi/mL (water)	µCi/mL (water)	10^{9}	pCi/L (water)
pCi/m^3 (air)	10^{-12}	µCi/mL (air)	µCi/mL (air)	10^{12}	pCi/m^3 (air)

Conversion Table (Units of Radiation Measure)

Current System	*Systeme International*	Conversion
curie (Ci)	becquerel (Bq)	1 Ci = $3.7x10^{10}$ Bq
rad (radiation absorbed dose)	gray (Gy)	1 rad = 0.01 Gy
rem (roentgen equivalent man)	sievert (Sv)	1 rem = 0.01 Sv