# Appendix H: **Units of Measure**

| Symbol | Name | Symbol | Name |
|---|---|---|---|
| ***Temperature*** | | ***Concentration*** | |
| **°C** | degrees Celsius | ppb | parts per billion |
| **°F** | degrees Fahrenheit | ppm | parts per million |
| ***Time*** | | ***Rate*** | |
| **d** | day | cfs | cubic feet per second |
| **h** | hour | gpm | gallons per minute |
| **y** | year | ***Conductivity*** | |
| ***Length*** | | µmho | micromho |
| **cm** | centimeter | ***Radioactivity*** | |
| **ft** | foot | Ci | curie |
| **in** | inch | cpm | counts per minute |
| **km** | kilometer | mCi | millicurie |
| **m** | meter | µCi | microcurie |
| **mm** | millimeter | pCi | picocurie |
| **µm** | micrometer | Bq | becquerel |
| ***Mass*** | | ***Radiation Dose*** | |
| **g** | gram | mrad | millirad |
| **kg** | kilogram | mrem | millirem |
| **mg** | milligram | Sv | sievert |
| **µg** | microgram | mSv | millisievert |
| ***Area*** | | µSv | microsievert |
| **mi²** | square mile | R | roentgen |
| **ft²** | square foot | mR | milliroentgen |
| ***Volume*** | | µR | microroentgen |
| **gal** | gallon | Gy | gray |
| **L** | liter | | |
| **mL** | milliliter | | |

**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 |
| **$10^{-12}$** | 0.000000000001 | pico- | p | E-12 |
| **$10^{-15}$** | 0.000000000000001 | femto- | f | E-15 |
| **$10^{-18}$** | 0.000000000000000001 | atto- | a | E-18 |

**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 |

**Conversion Table**

| 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) |