

Areas

6,452 sq cm	1 sq in
144 sq in	1 sq ft
9 sq ft	1 sq yd
43,560 sq ft	1 acre
1 acre	43,560 sq ft
1 acre	4,840 sq yd
1 acre	160 sq rods
1 sq rod	272.25 sq ft
1 sq rod	30.25 sq yd
640 acres	1 sq mi
640 acres	1 section
Area of a Circle	$r^2 \times 3.1416$
Area of a Square	One Side Squared
Area of a Triangle	$\frac{1}{2}$ Base x Altitude
Area of a Rectangle	Length x Width
Area of a Parallelogram	Base x Altitude

Lineal Measurements

1 centimeter	0.3937 inches
1 cubit	18 inches
1 meter	39.37 inches
1 rod	16.5 feet
1 rod	5.5 yards
1 chain	4 rods
1 chain	66 feet
320 rods	1 mile
5280 feet	1 mile
Circumference of Circle	Diameter x 3.1416

Volume

1728 cu in	1 cu ft
231 cu in	1 gallon
27 cu ft	1 cu yd
1 cu ft	7.48052 gal (U.S.)
1 cu yd	202 gallons (U.S.)
16 drams	1 ounce
32 ounces	1 quart
4 quarts	1 gallon
1 gallon	3.785 liters
1 gallon	0.00379 cu m
1 gallon	0.833 imperial gallons
27,154 gallons	1 acre inch
325,851 gallons	1 acre foot
1,000,000 gallons	3.0689 acre ft
1 acre foot	43,560 cu ft
Volume of a Cube	Area of Base x Height
Volume of a Pyramid	$\frac{1}{2}$ Area of Base x Height
Volume of a Sphere	$Diameter^3 \times 0.5236$

Mass/Weight

1 kg	2.204 lbs
1 lb	454 g = 7,000 grains
1 slug	14.5 kg
1 stone	14 lb

Weights

1 U.S. Gallon (Water)	8.3357 lbs
1 Cu Foot (Water)	62.3554 lbs
1 Imperial Gallon	10.0 lbs
1 Liter	2.2 lbs
Earth, in Place Undisturbed	100 lbs/cu ft
Earth, Dry and Loose	82-90 lbs/cu ft
Earth, Moist	75-100 lbs/cu ft
Sand, Dry	90-106 lbs/cu ft
Shale or Red Rock	162 lbs/cu ft
Limestone	160-163 lbs/cu ft
Base Gravel	12.0 lbs/sq ft/inch Thick in Place
Asphalt	12.5 lbs/sq ft/inch Thick in Place
Sack Cement	94 lbs
Concrete (Plain)	140 lbs/cu ft
Concrete (Reinforced)	150 lbs/cu ft

Pressures

1 atmosphere	29.921 inches of hg @ 32° F
1 atmosphere	33.94 ft of water @ 62° F
1 atmosphere	14.6963 lbs/sq in
1 lb/sq inch	2.31 feet of head
1 foot of water	0.433 lbs/sq in
1 kg/sq cm	14.22 lbs/sq in
1 foot of water	62.3554 lbs/sq ft
1 bar	14.5 lbs/sq in

Flows

1 gallon/min (U.S.)	0.002228 cu ft/sec
1 gallon/min (U.S.)	0.13368 cu ft/min
1 gallon/min (U.S.)	8.0208 cu ft/hr
1 gallon/min (U.S.)	0.06309 liters/sec
1 gallon/min (U.S.)	3.78533 liters/min
1 gallon/min (U.S.)	0.0044192 acre ft/24 hrs
1 gallon/min (U.S.)	0.22712 cu m/hr
1 cu ft/sec	448.83 gpm
1 liter/sec	15.85 gpm
1 cu m/min	264 gpm
1 acre in/hr	452.57 gpm
1 acre ft/day	226.3 gpm
1,000,000 gallons/day	694.4 gpm
1 cu ft/sec	0.992 acre in/hr

Power

1 horsepower	33,000 ft lbs/min
1 horsepower	746 watts
1 horsepower	0.746 kilowatts

Temperature

F	$^{\circ}\text{C} \times 9/5 + 32$
C	$(^{\circ}\text{F} - 32) \times 5/9$