



Conversion Tables

200.E.05

UNITS OF FLOW

Units	U.S. Gallons Per Minute	Million U.S. Gallons Per Day	Cubic Feet Per Second	Cubic Meters Per Hour	Liters Per Second
1 U.S. Gallon Per Minute	1	.001440	.00223	.2270	.0631
1 Million U.S. Gallons Per Day	694.5	1	1.547	157.73	43.8
1 Cubic Foot Per Second	448.8	.646	1	101.9	28.32
1 Cubic Meter Per Hour	4.403	.00634	.00981	1	.2778
1 Liter Per Second	15.85	.0228	.0353	3.60	1

UNITS OF POWER

Unit	Horsepower	Ft. - Lbs. Per Minute	Watts	Kilowatts	Metric Horsepower	B.T.U. Per Minute
1 Horsepower	1	33,000	746	.746	1.014	42.4
1 Ft. - Lb. Per Minute	.0000303	1	.0226	.0000226	.0000307	.001285
1 Watt	.001340	44.2	1	.001	.001360	.0568
1 Kilowatt	1.341	44.250	1000	1	1.360	56.8
1 Metric Horsepower	.986	32,550	736	.736	1	41.8
1 B.T.U. Per Minute	.0236	778.4	17.6	.0176	.0239	1

UNITS OF LENGTH

1 Inch = .0833 feet = .0278 yards = 25.4 millimeters = 2.54 centimeters
1 Foot = 12 inches = .333 yards = 30.48 centimeters = .3048 meters
1 Yard = 36 inches = 3 feet = 91.44 centimeters = .9144 meters
1 Mile = 5,280 feet = 1,760 yards = 1.61 kilometers = 1,609 meters
1 Meter = 3.281 feet = 39.37 inches = .000622 miles = .001 kilometers
1 Kilometer = 1,000 meters = 1093.61 yards = .62137 miles = 3,281 feet

Conversion Tables

200.E.05A

UNITS OF PRESSURE AND HEAD

Units	Lbs. Per Square Inch	Feet of Water	Meters of Water	Inches of Mercury	Atmospheres	Kilograms Per Sq. C.M.
1 Lb. Per Square Inch	1	2.31	.704	2.04	.0681	.0703
1 Foot of Water	.433	1	.305	.882	.02947	.0305
1 Meter of Water	1.421	3.28	1	2.89	.0967	.1
1 Inch of Mercury	.491	1.134	.3456	1	.0334	.0345
1 Atmosphere (at Sea Level)	14.70	33.93	10.34	29.92	1	1.033
1 Kilogram Per Sq. C.M.	14.22	32.8	10	28.96	.968	1

Equivalent units are based on density of fresh water from 32° to 62° F.

Equivalent units are based on density of mercury from 32° to 62° F, sufficient accuracy.

Each 1,000 feet of ascent decreases pressure about ½ lb./square inch.

UNITS OF VOLUME AND WEIGHT

Units	U.S. Gallons	Imperial Gallons	Cubic Inches	Cubic Feet	Acre Feet	Pounds	Cubic Meters
1 U.S. Gallon	1	.833	231	.1337	.00000307	8.35	.003785
1 Imperial Gallon	1.201	1	277.4	.1605	.00000369	10.02	.004546
1 Cubic Inch	.00433	.00360	1	.000579	–	.0361	–
1 Cubic Foot	7.48	6.23	1728	1	.0000230	62.4	.02832
1 Acre-Foot	325.850	271,335	–	43,560	1	–	1233.5
1 Pound*	.120	.0998	27.7	.0160	–	1	–
1 Cubic Meter	264.2	220	61,023	35.314	.000811	2205	1
1 Liter	.2642	.220	61.023	.0353	–	2.205	–

* Weights shown based on maximum density of fresh water at 39° F.

Units	Square Inch	Square Feet	Square Yard	Acres	Square Miles	Square Centimeters	Square Meters	Hectares
1 Square Inch	1	.00694	.00077	–	–	6.452	–	–
1 Square Foot	144	1	.111	–	–	929	.0929	–
1 Square Yard	1296	9	1	.000207	–	8361	.0836	–
1 Acre	–	43.500	4840	1	.00156	–	4049	0.405
1 Square Mile	–	27.9 x 10 ⁶	3,097,600	640	1	–	2.58 x 10 ⁶	258
1 Square Centimeter	.155	.001076	–	–	–	1	.0001	1 x 10 ⁸
1 Square Meter	1549	10.76	1.196	.000247	–	10.000	1	.0001
1 Hectare	–	107.639	11.960	2.471	.00386	1 x 10 ⁸	10.000	1

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