

# CONVERSION FACTORS

Multiply	By	To Obtain
Acres	43,560	Square feet
"	4047	Square meters
"	1.562x10 <sup>3</sup>	Square miles
"	4840	Square yards
Acre-Feet	43,560	Cubic feet
"	325,851	Gallons
"	1233.49	Cubic meters
Atmospheres	76.0	cm of Hg
"	29.92	Inches of Hg
"	33.90	Feet of water
"	10,333	Kg/sq meter
"	14.70	Lbs/sq inch
"	1.058	Tons/sq ft
Barrels-oil	42	Gallons-oil
Barrels-cement	376	Pounds-cement
Bags or sacks Cement	.94	Pounds-cement
Board-feet	144	Cubic Inches
BTU/Hour	0.2520	Kilogram-calories
"	777.5	Foot-lbs
"	3.927x10 <sup>4</sup>	Horse-power-hrs
"	107.5	Kilogram-meters
"	2.928x10 <sup>4</sup>	Kilowatt/hr
BTU/Min	12.96	Foot-lbs/sec
"	0.02356	Horse-power
"	0.01757	Kilowatts
"	17.57	Watts
Centares	1	Square meters
Centigrams	0.01	Grams
Centiliters	0.01	Liters
Centimeters	0.03937	Inches
"	0.01	Meters
"	10	Millimeters
Centimeters of Hg	0.01316	Atmospheres
"	0.4461	Feet of water
"	136.0	Kg/sq meter
"	27.85	Lbs/sq ft
"	0.1934	Lbs/sq inch
Centimeters/second	1.969	Feet/min
"	0.03281	Feet/sec
"	0.036	Kilometers/hr.
"	0.6	Meters/min.
"	0.02237	Miles/hr.
"	3.728x10 <sup>4</sup>	Miles/min.
Cm/sec/sec	0.03281	Feet/sec/sec
Cubic Centimeter	3.531x10 <sup>-5</sup>	Cubic ft
"	6.102x10 <sup>-2</sup>	Cubic in
"	10 <sup>-6</sup>	Cubic meters
"	1.308x10 <sup>-6</sup>	Cubic yards
"	2.642x10 <sup>-4</sup>	Gallons
"	10 <sup>-3</sup>	Liters
"	2.113x10 <sup>-3</sup>	Pints (liq)
"	1.057x10 <sup>-3</sup>	Quarts (liq)
Cubic feet	2.832x10 <sup>4</sup>	Cubic cm
"	1728	Cubic in
"	0.02832	Cubic meters
"	0.03704	Cubic yards
"	7.48052	Gallons
"	28.32	Liters
"	59.84	Pints (liq)
"	29.92	Quarts (liq)
Cubic feet/min	472	Cubic cm/sec
"	0.1247	Gallons/sec
"	0.4720	Liters/sec
"	62.43	Pounds water/min
Cubic feet/sec	0.646317	Million gal/day
"	448.831	gal/min
Cubic inches	16.39	Cubic cm
"	5.787x10 <sup>-4</sup>	Cubic ft
"	1.639x10 <sup>-5</sup>	Cubic meters
"	2.143x10 <sup>-5</sup>	Cubic yards
"	4.329x10 <sup>-3</sup>	Gallons
"	1.639x10 <sup>-2</sup>	Liters
"	0.03463	Pints (liq)
"	0.01732	Quarts (liq)
Cubic meters	10 <sup>6</sup>	Cubic cm
"	35.31	Cubic ft

Multiply	By	To Obtain
Cubic meters	61.023	Cubic in
"	1.308	Cubic yards
"	264.2	Gallons
"	10 <sup>3</sup>	Liters
"	2113	Pints (liq)
"	1057	Quarts (liq)
Cubic yards	7.646x10 <sup>5</sup>	Cubic cm
"	27	Cubic ft
"	46.656	Cubic in
"	0.7646	Cubic meters
"	202.0	Gallons
"	764.6	Liters
"	1616	Pints (liq)
"	807.9	Quarts (liq)
Cubic yards/min	0.45	Cubic ft/sec
"	3.367	Gallons/sec
"	12.74	Liters/sec
Decigrams	0.1	Grams
Deciliters	0.1	Liters
Decimeters	0.1	Meters
Degrees (angle)	60	Minutes
"	0.01745	Radians
"	3600	Seconds
Degrees/sec	0.01745	Radians/sec
"	0.1667	Revolutions/min
"	0.002778	Revolutions/sec
Dekagrams	10	Grams
Dekaliters	10	Liters
Dekameters	10	Meters
Drams	27.34375	Grains
"	0.0625	Ounces
"	1.771845	Grams
Fathoms	6	Feet
Feet	30.48	Centimeters
"	12	Inches
"	0.3048	Meters
"	1/3	Yards
Feet of water	0.02950	Atmosphere
"	0.8826	Inches Hg
"	304.8	kg/sq meter
"	62.43	lbs/sq ft
"	0.4335	lbs/sq in
Feet/min	0.5080	Centimeters/sec
"	0.01667	Feet/sec
"	0.01829	Kilometers/hr
"	0.3048	Meters/min
"	0.01136	Miles/hr
Feet/sec	30.48	Centimeters/sec
"	1.097	Kilometers/hr
"	0.5921	Knots
"	18.29	Meters/min
"	0.6818	Miles/hr
"	0.01136	Miles/min
Feet/sec/sec	30.48	cm/sec/sec
"	0.3048	meters/sec/sec
Foot-pounds	1.286x10 <sup>-3</sup>	BTU
"	5.050x10 <sup>-7</sup>	Horse-power-hr
"	3.241x10 <sup>-4</sup>	Kilogram-calories/hr
"	0.1383	Kilogram-meters
"	3.766x10 <sup>-7</sup>	Kilowatt/hr
Foot-pounds/min	1.286x10 <sup>-3</sup>	BTU/min
"	0.01667	Foot-pounds/sec
"	3.030x10 <sup>-5</sup>	Horse-power
"	3.241x10 <sup>-4</sup>	Kg-calories/min
"	2.260x10 <sup>-5</sup>	Kilowatts
Foot-pounds/sec	7.717x10 <sup>2</sup>	BTU/min
"	1.818x10 <sup>-3</sup>	Horse-power
"	1.945x10 <sup>-2</sup>	Kg-calories/min
"	1.356x10 <sup>-3</sup>	Kilowatts
Gallons	3785	Cubic cm
"	0.1337	Cubic ft
"	231	Cubic in
"	3.785x10 <sup>-3</sup>	Cubic meters
"	4.951x10 <sup>-3</sup>	Cubic yards
"	3.785	Liters
"	8	Pints (liq)

Multiply	By	To Obtain
Gallons	4	Quarts (liq)
Gallons, Imperial	1.20095	U.S Gallons
Gallons, US	0.83267	Imperial Gallons
Gallons water	8.3453	Pounds of water
Gallons/min	2.228x10 <sup>-3</sup>	Cubic ft/sec
"	0.06308	Liters/sec
"	8.0208	cu ft/hr
"	8.0208	Overflow Rate (ft/hr)
<b>Area (sq. ft.)</b>		
Gallons water/min	6.0086	Tons water, 24 hrs
Grains (troy)	L	Grains (avoird)
"	0.06480	Grams
"	0.04167	Pennyweight (troy)
"	2.0833x10 <sup>-3</sup>	Ounces (troy)
Grains/US gal	17.118	Parts/million
"	142.86	lbs/million gal
Grains/Imp gal	14.254	Parts/million
Grams	980.7	Dynes
"	15.43	Grains
"	10 <sup>-3</sup>	Kilograms
"	10 <sup>3</sup>	Milligrams
"	0.03527	Ounces
"	0.03215	Ounces (troy)
"	2.205x10 <sup>-3</sup>	Pounds
Grams/cm	5.600 x 10 <sup>-3</sup>	Pounds/in
Grams/cu cm	62.43	Pounds/cubic ft
"	0.03613	Pounds/cubic in
Grams/liter	58.417	Grains/gal
"	8.345	Pounds/1000gal
"	0.062427	Pounds/cubic ft
"	1000	Parts/million
Hectares	2.471	Acres
"	1.076x10 <sup>5</sup>	Square ft
Hectograms	100	Grams
Hectoliters	100	Liters
Hectometers	100	Meters
Hectowatts	100	Watts
Horse-power	42.44	BTU/min
"	33.000	Foot-lbs/min
"	550	Foot-lbs/sec
"	1.014	Horse-power (metric)
"	10.70	Kg-calories/min
"	0.7457	Kilowatts
"	745.7	Watts
Horse-power (boiler)	33,479	BTU/hr
"	9.803	Kilowatts
Horse-power hours	2547	BTU
"	1.98x10 <sup>6</sup>	Foot-lbs
"	641.7	Kilogram-calories/hr
"	2.737x10 <sup>5</sup>	Kilogram-meters
"	0.7457	Kilowatt/hr
Inches	2.540	Centimeters
Inches Hg	0.03342	Atmospheres
"	1.133	Feet of water
"	345.3	kg/sq meter
"	70.73	lbs/sq ft
"	0.4912	lbs/sq in
Inches of water	0.002458	Atmospheres
"	0.07355	Inches of Hg
"	25.40	kg/sq meter
"	0.5781	Ounces/sq in
"	5.202	lbs/sq sec
"	0.03613	lbs/sq in
Kilograms	980.665	Dynes
"	2.205	Lbs
"	1.102x10 <sup>-3</sup>	Tons (short)
"	10 <sup>3</sup>	Grams
Kilogram-calories	3.968	BTU
"	3086	Foot-lbs
"	1.558x10 <sup>-3</sup>	Horse-power/hr
"	1.162x10 <sup>-3</sup>	Kilowatt/hr
Kilogram-calories/min	51.43	Foot-lbs/sec
"	0.09351	Horse-power
"	0.06972	Kilowatts
Kg/meter	0.672	Lbs/ft



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