

CONVERSION FACTORS

Multiply	By	To Obtain	Multiply	By	To Obtain
Acres	43,560	Square Feet	Atmospheres	33.90	Feet of water
Acres	4047	Square Miles	Atmospheres	10,332	kgs./sq meter
Acres	1.562x103	Square Miles	Atmospheres	14.70	Lbs./sq inch
Acres	4840	Square Yards	Atmospheres	1.058	Tons/sq. ft.
Acre-foot	43,560	Cubic feet	Atmospheres (metric)	0.9678	Atmospheres
Acre-foot	325,851	Gallons	Atmospheres (metric)	980,665	Bars
Acre-foot	1233.48	Cubic Meters	Bars	0.98692	Atmospheres
Atmospheres	1.0332	Atmospheres (metric)	Bars	33.456	Feet H2O @ 39 deg.F
Atmospheres	1.01325	Bars	Bars	29.530	In. Hg @ 32 deg. F
Atmospheres	76.0	Cms. of mercury	Bars	1.0197	kg / cm2
Atmospheres	29.92	Inches of mercury	Bars	2088.6	Pounds / ft. 2

Multiply	By	To Obtain	Multiply	By	To Obtain
Bars	14.504	Pounds / in. 2	Cubic feet / min.	0.1247	Gallons / sec.
Barrels - oil	42	Gallons - oil	Cubic feet / min.	0.4719	Liters / sec.
Barrels - beer	31	Gallons - beer	Cubic feet / min.	62.43	Pounds of water / min.
Barrels - whiskey	45	Gallons - whiskey	Cubic feet / sec.	0.646317	Millions gals. / day
Barrels / day - oil	0.02917	Gallons / min - oil	Cubic feet / sec.	448.831	Gallons / min.
Bags or sacks - cement	94	Pounds - cement	Cubic inches	16.39	Cubic centimeters
Board feet	144 sq. in*1 in	Cubic inches	Cubic inches	5.787*10 4	Cubic feet
British Thermal Units	0.2520	Kilogram - calories	Cubic inches	1.639*10 5	Cubic meters
British Thermal Units	777.6	Foot - lbs.	Cubic inches	2.143*10 5	Cubic yards
British Thermal Units	3.922*10 4	Horsepower - hrs.	Cubic inches	4.329*10 3	Gallons
British Thermal Units	107.5	Kilogram - meters	Cubic inches	1.639*10 2	Liters
British Thermal Units	2.928*10 4	Kilowatt - hrs.	Cubic inches	0.03463	Pints (liq.)
B.T.U. / min.	12.96	Foot-lbs. / sec.	Cubic inches	0.01732	Quarts (liq.)
B.T.U. / min.	0.02356	Horsepower	Cubic meters	10 6	Cubic centimeters
B.T.U. / min.	0.01757	Kilowatts	Cubic meters	35.31	Cubic feet
B.T.U. / min.	17.57	Watts	Cubic meters	61023	Cubic inches
Centares (Centiares)	1	Square meters	Cubic meters	1.308	Cubic yards
Centigrams	0.01	Grams	Cubic meters	264.2	Gallons
Centiliters	0.01	Liters	Cubic meters	999.97	Liters
Centimeters	0.3937	Inches	Cubic meters	2113	Pints (liq.)
Centimeters	0.01	Meters	Cubic meters	1057	Quarts (liq.)
Centimeters	10	Millimeters	Cubic meters / hr.	4.40	Gallons / min.
Centimtrs. of mercury	0.01316	Atmospheres	Cubic yards	4.8089	Barrels (42 U.S. Gal.)
Centimtrs. of mercury	0.013332	Bars	Cubic yards	764,554.86	Cubic centimeters
Centimtrs. of mercury	0.013595	kg / cm 2	Cubic yards	27	Cubic feet
Centimtrs. of mercury	0.4461	Feet of water	Cubic yards	46,656	Cubic inches
Centimtrs. of mercury	136.0	kgs / sq. meter	Cubic yards	0.7646	Cubic meters
Centimtrs. of mercury	27.85	Lbs. / sq. ft.	Cubic yards	202.0	Gallons
Centimtrs. of mercury	0.1934	Lbs. / sq. inch	Cubic yards	764.5	Liters
Centimeters / sec.	1.969	Feet / min.	Cubic yards	1616	Pints (liq.)
Centimeters / sec.	0.03281	Feet / sec.	Cubic yards	807.9	Quarts (liq.)
Centimeters / sec.	0.036	Kilometers / hr.	Cubic yards / min.	0.45	Cubic feet / sec.
Centimeters / sec.	0.6	Meters / min.	Cubic yards / min.	202.0	Gallons / min.
Centimeters / sec.	0.02237	Miles / hr.	Cubic yards / min.	3.366	Gallons / sec.
Centimeters / sec.	3.728*10 4	Miles / min.	Cubic yards / min.	12.74	Liters / sec.
Cms. / sec/sec	0.03281	Feet / sec./sec.	Decigrams	0.1	Grams
Centipoises	0.001	Pascal-second	Deciliters	0.1	Liters
Centipoises	0.01	Poises	Decimeters	0.1	Meters
Centistokes	0.01	Sq. cm / sec.	Degrees (angle)	60	Minutes
Centistokes	0.01	Stokes	Degrees (angle)	0.01745	Radians
Cubic centimeters	3.531*10 5	Cubic feet	Degrees (angle)	3600	Seconds
Cubic centimeters	6.102*10 2	Cubic inches	Degrees / sec.	0.01745	Radians / sec.
Cubic centimeters	10 6	Cubic meters	Degrees / sec.	0.1667	Revolutions / min.
Cubic centimeters	1.308*10 6	Cubic yards	Degrees / sec.	0.002778	Revolutions / sec.
Cubic centimeters	2.642*10 4	Gallons	Dekagrams	10	Grams
Cubic centimeters	9.999*10 4	Liters	Dekaliters	10	Liters
Cubic centimeters	2.113*10 3	Pints (liq.)	Dekameters	10	Meters
Cubic centimeters	1.057*10 3	Quarts (liq.)	Drams	27.34375	Grains
Cubic cm / sec.	0.0158502	Gallons / minute	Drams	0.0625	Ounces
Cubic cm / sec.	0.001	Liters / sec.	Drams	1.771845	Grams
Cubic feet	0.1781	Barrels (42 U.S. Gal.)	Fathoms	6	Feet
Cubic feet	2.832*10 4	Cubic cms.	Feet	30.48	Centimeters
Cubic feet	1728	Cubic inches	Feet	0.166667	Fathoms
Cubic feet	0.02832	Cubic meters	Feet	3,048*10 4	Kilometers
Cubic feet	0.03704	Cubic yards	Feet	304.80	Millimeters
Cubic feet	7.48052	Gallons	Feet	12	Inches
Cubic feet	28.32	Liters	Feet	0.3048	Meters
Cubic feet	59.84	Pints (liq.)	Feet	13	Yards
Cubic feet	29.92	Quarts (liq.)	Feet of water	0.295	Atmospheres
Cubic feet / min	472.0	Cubic cms / sec.	Feet of water	0.8826	Inches of mercury

Multiply	By	To Obtain	Multiply	By	To Obtain
Feet of water	304.8	kgs. /sq. meter	Gallons / min.	1.4286	Barrels
Feet of water	62.43	Lbs. / sq. ft.	Gallons / min.	0.02381	Barrels
Feet of water	0.4335	Lbs. / sq. inch	Gallons / min.	1440	Gallons / day
Feet / min.	0.5080	Centimeters / sec.	Gallons / min.	2.228*10 3	Cubic feet / sec.
Feet / min.	0.01667	Feet / sec.	Gallons / min.	0.06308	Liters / sec.
Feet / min.	0.01829	Kilometers / hr.	Gallons / min.	8.0208	Cu. ft. / hr.
Feet / min.	0.3048	Meters / min.	Gallons / sec.	60	Gallons / min.
Feet / min.	0.01136	Miles / hr.	Gallons / sec.	227.12	Liters / min.
Feet / sec.	30.48	Centimeters / sec.	Grains (troy)	0.0648	Grams
Feet / sec.	1.09726	Kilometers / hr.	Grains (troy)	0.04167	Pennyweights (troy)
Feet / sec.	0.5924	Knots	Grains (troy)	2.0833*10 3	Ounces (troy)
Feet / sec.	18.29	Meters / min.	Grains / U.S. gal.	17.118	Parts / million
Feet / sec.	0.6818	Miles / hr.	Grains / U.S. gal.	142.86	Lbs. / million gal.
Feet / sec.	0.01136	Miles / min.	Grains / imp. gal	14.254	Parts / million
Feet / sec/sec	30.48	Cms. /sec./sec.	Grams	980.7	Dynes
Feet / sec/sec	0.3048	Meters /sec./sec.	Grams	15.43	Grains
Feet / sec/sec	0.031081	g's (gravity)	Grams	0.001	Kilograms
Foot - pounds	1.286*10 3	British Thermal Units	Grams	1000	Milligrams
Foot - pounds	5.050*10 7	Horsepower - hrs.	Grams	0.03527	Ounces
Foot - pounds	3.240*10 4	Kilogram - calories	Grams	0.03215	Ounces (troy)
Foot - pounds	0.1383	Kilogram - meters	Grams	2.205*10-3	Pounds
Foot - pounds	3.766*10 7	Kilowatt - hours	Grams / cu. cm.	5.600*10 -3	Pounds / inch
Foot - pounds / min.	2.140*10 5	B.T.U. / sec.	Grams / cu. cm.	62.43	Pounds / cubic foot
Foot - pounds / min.	0.01667	Foot - pounds / sec.	Grams / cu. cm.	0.03613	Pounds / cubic inch
Foot - pounds / min.	3.030*10 5	Horsepower	Grams / liter	58.416	Grains / gal.
Foot - pounds / min.	5.393*10 3	Gm. calories / sec.	Grams / liter	8.345	Pounds / 1000 gals.
Foot - pounds / min.	2.280*10 5	Kilowatts	Grams / liter	0.06242	Pounds / cubic foot
Foot - pounds / sec.	7.704*10 2	B.T.U. / min.	Grams / liter	1000	Parts / million
Foot - pounds / sec.	1.818*10 3	Horsepower	Hectares	2.471	Acres
Foot - pounds / sec.	1.941*10 2	kg - calories / min.	Hectares	1.076*105	Square feet
Foot - pounds / sec.	1.356*10 3	Kilowatts	Hectograms	100	Grams
G's (Accel. due to gravity)	32.174	Feet / sec. 2	Hectoliters	100	Liters
G's (Accel. due to gravity)	35.3034	Km / hr. - sec.	Hectometers	100	Meters
G's (Accel. due to gravity)	9.80665	Meters / sec. 2	Hectowatts	100	Watts
G's (Accel. due to gravity)	21.9371	Miles / hr. - sec.	Horsepower	42.44	B.T.U. / min.
Gallons	3785	Cubic centimeters	Horsepower	33,000	Foot-lbs./min.
Gallons	0.1337	Cubic feet	Horsepower	550	Foot-lbs. / sec.
Gallons	231	Cubic inches	Horsepower	1.014	Horsepower (metric)
Gallons	3.785*10 3	Cubic meters	Horsepower	10,547	kg. - calories / min.
Gallons	4.951*10 3	Cubic yards	Horsepower	0.7457	Watts
Gallons	3.785	Liters	Horsepower (boiler)	33,493	B.T.U. / hr.
Gallons	8	Pints (liq.)	Horsepower (boiler)	9.809	Kilowatts
Gallons	4	Quarts (liq.)	Horsepower (boiler)	9.2994	B.T.U. / sec.
Gallons - Imperial	1.20095	U.S. Gallons	Horsepower (boiler)	9809.5	Watts
Gallons - U.S.	0.83267	Imperial gallons	Horsepower - hours	2546	B.T.U.
Gallons water	8.345	Pounds of water	Horsepower - hours	1.98*10 5	Foot-lbs.
Gallons per day	9.284*10 5	Cubic ft. / min.	Horsepower - hours	641.6	Kilogram calories
Gallons per day	1.5472*10 6	Cubic ft. / sec.	Horsepower - hours	2.737 10 5	Kilogram meters
Gallons per day	2.6289*10 6	Cubic meters / min.	Horsepower - hours	0.7457	Kilowatt - hours
Gallons per day	0.09284	Liters / min.	Inches	2.540	Centimeters
Gallons per hour	0.1337	Cubic ft. / hr.	Inches	0.083333	Feet
Gallons per hour	0.002228	Cubic ft. / min.	Inches	0.0254	Meters
Gallons per hour	3.71*10 5	Cubic ft. / sec.	Inches	25.4	Millimeters
Gallons per hour	6.309*10 5	Cubic meters / min.	Inches	0.0277778	Yards
Gallons per hour	0.016667	Gallons / min.	Inches of mercury	0.03342	Atmospheres
Gallons per hour	2.7778*10 4	Gallons / sec.	Inches of mercury	0.03386	Bars
Gallons per hours	0.06309	Liters / min.	Inches of mercury	13.6	Inches H2O
Gallons / min.	34.286	Barrels			
		(42 U.S. Gal.) / day			

Multiply	By	To Obtain	Multiply	By	To Obtain
Inches of mercury	0.034531	kg / cm 2	Kilometers / hr.	0.6214	Miles/hr.
Inches of mercury	3374.1	Pascals	Kms. /hr. /sec.	27.78	Cms. /sec./sec.
Inches of mercury	70.727	Pounds / ft. 2	Kms. /hr. /sec.	0.9113	FT /sec./sec.
Inches of mercury	0.49116	Pounds / in. 2	Kms. /hr. /sec.	0.2778	Meters /sec./sec.
Inches of mercury	1.133	Feet of water	Kilowatts	56.907	B.T.U. / min.
Inches of mercury	345.3	kgs. /sq. meter	Kilowatts	4.425*10^4	Foot-lbs. / min.
Inches of mercury	70.73	Lbs. / sq. feet	Kilowatts	737.6	Foot-lbs. / sec.
Inches of mercury (32 F)	0.491	Lbs. / sq. inch	Kilowatts	1.341	Horsepower (US)
Inches of water	0.002458	Atmospheres	Kilowatts	1.3597	Horsepower (metric)
Inches of water	0.07355	Inches of mercury	Kilowatts	1000	Joules / sec.
Inches of water	25.4	kgs. / sq. meter	Kilowatts	3412.9	B.T.U. / hr.
Inches of water	5.078	Ounces / sq. inch	Kilowatts	0.94827	B.T.U. / min.
Inches of water	5.202	Lbs. / sq. foot	Kilowatts	10.34	kg. - calories / min.
Inches of water	0.03613	Lbs. / sq. inch	Kilowatts	10*3	Watts
Joules	9.479*10 4	B.T.U.	Kilowatt - hours	3414.4	B.T.U.
Joules	0.239006	Calories (Thermo)	Kilowatt - hours	2.655*10^6	Foot-lbs.
Joules	0.73756	Foot-lb-f	Kilowatt - hours	1.341	Horsepower - hours
Joules	3.725*10 7	HP - hr. (U.S.)	Kilowatt - hours	860.4	Kilogram - calories
Joules	2.7778*10 7	Kilowatt - hr.	Kilowatt - hours	3.671*10^5	Kilogram - meters
Joules	1	Newton - m	Liters	10*3	Cubic Centimeters
Joules	2.7778*10 4	Watt - hr.	Liters	0.03531	Cubic Feet
Kilograms	35.274	Ounces (avoird)	Liters	61.02	Cubic Inches
Kilograms	32.151	Ounces (troy)	Liters	10*3	Cubic meters
Kilograms	980,665	Dynes	Liters	1.308*10^3	Cubic yards
Kilograms	2.205	Lbs.	Liters	0.2642	Gallons
Kilograms	1.102*10 3	Tons (short)	Liters	2.113	Pints (liq.)
Kilograms	34.286	Tons (assay)	Liters	10.57	Quarts (liq.)
Kilograms	9.8421*10 4	Tons (long)	Liters / min.	5.886*10^4	Cubic ft./sec.
Kilograms	0.001	Tons (metric)	Liters / min.	4.403*10^3	Gals./sec.
Kilograms	10*3	Grams	Lumber width*thickness		
Kilograms - cal. / sec.	3.968	B.T.U. / sec.	(in.)^12	Length (ft.)	Board feet
Kilograms - cal. / sec.	3086	Foot-lbs / sec.	Meters	100	Centimeters
Kilograms - cal. / sec.	5.6145	Horsepower	Meters	3.281	Feet
Kilograms - cal. / sec.	4186.7	Watts	Meters	39.37	Inches
Kilograms/cm^2	0.96783	Atmospheres	Meters	10*3	Kilometers
Kilograms/cm^2	0.980665	Bars	Meters	10*3	Millimeters
Kilograms/cm^2	28.959	Inches Hg @ 32 F	Meters	1.094	Yards
Kilograms/cm^2	14.223	Lbs/in.^2	Meters / min.	1.667	Centimeters / sec
Kilogram - cal. / min.	3085.9	Foot-lbs / min.	Meters / min.	3.281	Feet / min
Kilogram - cal. / min.	0.09351	Horsepower	Meters / min.	0.05468	Feet / sec.
Kilogram - cal. / min.	69.733	Watts	Meters / min.	0.06	Kilometers / hr.
kgs / meter	0.672	Lbs. / foot	Meters / min.	0.03728	Miles/hr.
kgs / sq. meter	9.678*10^-5	Atmospheres	Meters / sec.	196.8	Feet / min
kgs /					