Engineering Handbook of Conversion Factors

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NATCO

CONVERSION INDEX

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The conversion factors listed in this book are computed as such:

23 (6/0) is read 23,000,000

or

.5/0 4698 is read .000004698

The following fa
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Example #1: A p
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Abampere	× 10.	= Ampere
	× 2998(7/o).	= Statampere
Abampere/Square Centimeter	× 10.	= Ampere/Square Centimeter
	× 64.52	= Ampere/Square Inch
	× 1(5/o).	= Ampere/Square Meter
	× 2998(7/o).	= Statampere/Sq Centimeter
Abampere - Turn	× 10.	= Ampere - Turn
	× 12.566	= Gilbert
Abampere - Turn/Centimeter	× 10.	= Ampere - Turn/Centimeter
	× 25.40005	= Ampere - Turn/Inch
	× 1000.	= Ampere-Turn/Meter
	× 12.57	= Gilbert/Centimeter
	× 12.57	= Oersted
Abbreviations Used in This Book	= 23(6/o).	Is Read 23000000.
	= .5/o46	Is Read .0000046
Abcoulomb	× .00277777	= Ampere-Hour
	× 10.	= Coulomb
	× 62425(15/o).	= Electronic Charge
	× .00010365	= Faraday
	× 2998(7/o).	= Statcoulomb
Abcoulomb/Square Centimeter	× 10.	= Coulomb/Sq Centimeter
	× 64.52	= Coulomb/Sq Inch
	× 1(5/o).	= Coulomb/Sq Meter
	× 2998(7/o).	= Statcoulomb/Sq Centimeter
Abfarad	× 1(9/o).	= Farad
	× 1(15/o).	= Microfarad
	× 8988(17/o).	= Statfarad
Abhenry	× .8/o1	= Henry
	× .001	= Microhenry
	× .5/o1	= Millihenry
	× .20/o1112	= Stathenry
Abmho/Centimeter	× 1.0	= Abmho/Centimeter Cube
	× 1(11/o).	= Mho/Meter
	× 1(11/o).	= Mho/Meter Cube
	× 166.2	= Mho/Mil-Foot
	× 166.2	= Mho-Mil-Foot
	× 1000.	= Micromho/Centimeter
	× 1000.	= Micromho/Centimeter Cube
	× 2540.	= Micromho/Inch
	× 2540.	= Micromho/Inch Cube
Abmho/Centimeter × gm/cc	= 1(5/o).	× Mho/Meter-Gram
	= 1(5/o).	× Mho-Meter-Gram
Abmho/Centimeter Cube	× 1.0	= Abmho/Centimeter
Abohm	× .14/o1	= Megohm
	× .001	= Microhm
	× .8/o1	= Ohm
	× .20/o111279	= Statohm
Abohm-Centimeter	× 1.0	= Abohm/Centimeter Cube
	× .001	= Microhm-Centimeter Cube
	× .0003937	= Microhm-Inch Cube
	× .006015	= Ohm-Circular Mil-Foot
	× .10/o1	= Ohm-Meter Cube
	× .006015	= Ohm/Mil-Foot
Abohm-Centimeter × gm/cc	× .4/o1	= Ohm-Meter-Gram
Abohm/Centimeter Cube	× 1.0	= Abohm-Centimeter
Abvolt	× .01	= Microvolt
	× .4/o1	= Millivolt
	× .10/o33358	= Statvolt
	× .7/o1	= Volt
Abvolt/Centimeter	× .10/o1	= Kilovolt/Centimeter
	× 1.0	= Microvolt/Meter
	× .001	= Millivolt/Meter
	× .10/o3335	= Statvolt/Centimeter
	× .7/o1	= Volt/Centimeter
	× .7/o254	= Volt/Inch

A — CONVERSION FACTORS

Abvolt/Centimeter	× .5/o1	= Volt/Meter
	× .10/o254	= Volt/Mil
Acceleration	× Mass	= Force
Acetate: $C_2H_3O_2$:	= -1	= Valence
Acetylene (60F-30" Hg):	= .906	= Specific Gravity (Air=1)
Cubic Foot	× 1435.	= Btu Gross Combustion Heat
	× 12.1	= Cuft Air for Combustion
	× .069	= Pound (Weight)
Cuft Mixed Air-Gas	× 114.54	= Btu Gross Combustion Heat
Flame Temperature	× 4160.	= Degree F Maximum
Pound	× 21430.	= Btu Gross Combustion Heat
	× 14.32	= Cubic Feet
	× 13.306	= Pound Air for Combustion
Acoustical Material: Absorption Coefficient	× Room Area SqFt	= Sabin
Acre	× 40.46873	= Arc
	× .4046873	= Hectare
	× 4.	= Road
	× .00156250	= Section
	× 40468726.	= Square Centimeter
	× 10.	= Square Chain Gunter
	× 43560.	= Square Feet
	× 6272640.	= Square Inch
	× .00404687	= Square Kilometer
	× 4046.873	= Square Meter
	× .00156250	= Square Mile US Statute
	× 4047(6/o).	= Square Millimeter
	× 160.	= Square Rod
	× 5645.4	= Square Vara
	× 4840.	= Square Yard
Acre-Foot	× 7757.8	= Barrel (42)
	× 43560.	= Cubic Feet
	× 1233.49	= Cubic Meter
	× 1613.33	= Cubic Yard
	× 325851.40764	= Gallon Liquid US
	× .5042	= Second-Foot
Acre-Foot × Percent Porosity	× 7757.8	= Barrel (42)
Acre: Square	= 208.7103	= Feet Length or Width
1/2 Square	= 147.58	= Feet Length or Width
1/4 Square	= 104.355	= Feet Length or Width
Air: 32F: 14.69 69psi: Cold Air Standard	= 1.3947	= k
Composition:	= 79% = 77 wgt	= Nitrogen Content
	= 21% = 23 wgt	= Oxygen Content
	= 3.8 = 3.3	= Ratio Nitrogen/Oxygen
Cuft	= .6/o5	= Cuft Ammonia
	= .014	= Cuft Aqueous Vapor
	= .0079	= Cuft Argon
	= .000336	= Cuft Carbon dioxide
	= .5/o8	= Cuft Nitric Acid
	= .77116	= Cuft Nitrogen
	= .206594	= Cuft Oxygen
	= .5/o15	= Cuft Ozone
Cubic Centimeter	× .0012929	= Gram
Cubic Foot	× .080728	= Pound
Cubic Meter	× 1.2929	= Kilogram
Kilogram	× .7734	= Cubic Meter
Liter	× 1.2929	= Gram (0-100C)
Molal or Molar Sp Heat	= 6.826	= Mol Wgt × Btu/# Cp
Molecular Weight	= 28.85	= Sum of Atomic Weights
R = pv/T	= 53.3	= Cuft/Lb/°R/Lb Air (Read)
R = pv/T=Gas Constant	= 53.3	= Ft-lb/(°R × lb) (Figure)
R × Mol Weight = MR	= 1545.	= Universal Gas Constant
R × Mol Weight = MR	= 1545.	= Molar Gas Constant
Specific Gravity	= 1.0	= Gas Standard (0 + 4N)
Specific Heat Cp	= .2375	= Btu/Pound-°F
Specific Heat Cv	= .1689	= Btu/Pound-°F
Specific Heat Ratio	= 1.406	= Btu/Pound-°F (Cp/Cv)

Air: 32F: 14.69 69psi: Specific Volume	= 12.387	= Cuft/Pound
Thermal Conductivity	= .163	= Btu-Inch/SqFt-Hour-°F
Thermal Conductivity	= .0136	= Btu-Foot/SqFt-Hour-°F
Air: 60F: Cubic Foot	× .07651	= Pound
Pound	× 13.095	= Cubic Feet
62F: Cubic Foot	× .0761	= Pound
Pound	× 13.141	= Cubic Feet
70F: Cubic Foot	× .01799	= Btu (Can Absorb)
	= .075	= Pound (Standard Density)
Density Lb/cuft × Ft Head of Air × cfm	× .00030303	= Air Horsepower (Fan)
Dry: Pound Weight × Rankine Degree	× .37	= Cuft Volume × psia
Expansion: Degree Centigrade	× .003671	= psi CP
	× .003665	= psi Cv (0-100C)
Degree Fahrenheit	× .002034	= psi Cv (0-100C)
Flow Resistance: 1"-4" Ell or Tee	= 3.7d"-1.7	= Equiv Ft Straight Pipe
5"-8" Ell or Tee	= 4d"	= Equiv Ft Straight Pipe
1"-3" Valve	= 5.5d"-3.5	= Equiv Ft Straight Pipe
4"-8" Valve	= 8.25d"-13.	= Equiv Ft Straight Pipe
Horsepower (Fan)	× 33000.	= Lb Air/Min × Ft Head of Air
Static × 6356.	= cfm	× Inch Water Gage (Static Press)
Total × 6356.	= cfm	× Inch Water Gage (Total Press)
Pressure On Flat Surface: Feet/Second	× .00125	= Pound/Square Foot Area
Suction @ Hood Face: Electroplate Vapor	= 1500.	= Lineal fpm (Flow Rate)
Granite Dust	= 1500.	= Lineal fpm (Flow Rate)
Paint Spray	= 200.	= Lineal fpm (Flow Rate)
Throttled: Temperature Drop		= .03F Degree/psi Drop
Viscosity:	= 1812(5/o).	= Poise 59F
Air-Conditioner: Blower: Ambient Temp °F	+ 20.	= °F Air (Discharge Side)
House Light Heat: Watt	× 3.41	= Btu/Hour
Occupant Heat: Persons	× 400.	= Btu/Hour
Persons	× .25 to .4	= Ton Refrig Needed
Square	× .25 to .4	= Ton Refrigeration
3/4 Ton Unit	= 1600	= Watt (Average Use)
Water Tower	= 2 to 3	= Gallon/Minute Water
	= 95°F	= Max Discharge Temp
Airlift: Cubic Feet of Oil Raised	× 13.	= Cuft Air (Efficient Volume)
Gallons of Oil Raised	× 1.25	= Cuft Air (Practical Volume)
Seconds	× 35.	= Cuft Air (Maximum Rate)
Alcohol: Cubic Foot	× 50.	= Pound
Ethyl: Boiling Point	= 78.32	= Degree Centigrade (76cm)
Cubic Centimeter	× .789	= Gram (Density 68F)
Latent Heat Fusion	= 24.89	= Gram-Calorie/Gram
Pound	× 12835.	= Btu (Heat Value)
Specific Heat	= .548	= Btu/Pound/°F
Specific Heat 68F	= 1.02	= Gram-Calorie/Gram-°C
Viscosity 20C	= .012	= Poise
Gallon:	× 6.7	= Pound
Methyl: Pound	× 9063.	= Btu (Heat Value)
Specific Heat 73.4F	= 1.0	= Gram-Calorie/Gram-°C
Aluminum: (A1): #13: 26.97 AW: 2.64 Spg: Val. +3		
Cubic Centimeter	× 2.70	= Gram 59F
Cubic Foot	× 165.	= Pound 68F
Heat Conductivity	= 117.	= Btu/(hr)(SqFt)(°F/Ft)
Linear Expansion: Inch	× 12.3	= Micro-Inch/Degree F
Specific Heat	= .212	= Btu/Pound/°F
Specific Thermal Capacity	= 40.	= Watt-Second/Culn/°C
Thermal Conductivity	= 5.3	= Watt/°C/Inch
Amarillo Heating Load	= 4655.	= Degree-Day
Ammonia Gas: (60F-30"Hg): Cubic Feet	× .04566	= Pound
Pound	× 21.90	= Cubic Feet
Specific Gravity	= .5963	Air = 1
Ammonium: NH_4:	= +1	= Valence
Ampere (I)	× .1	= Abampere
	× 1.0	= Ampere Absolute
	× 1.000165	= Ampere International
	× 1.	= Coulomb/Second

A CONVERSION FACTORS

Ampere (I)	× 1.0	= Current Unit Practical
	× 1.	= Electric Current Unit
	× .4/o10365	= Faraday/Second
	× .001	= Milliampere
	× 2998(6/o).	= Statampere
	× Ohm	= Volt or Potential Difference
	× Ohm Impedance	= Volt
	× Second	= Coulomb
	× Volt	= Volt-Ampere
Ampere × Hour	× Volt	= Watt
= Rate of Flow = Current Strength	× Volt	= Watt-Hour
× Second	= 1.0	= Unit of Strength
× Turns	× Volt	= Joule or Watt-Second
× Volt	× 1.256637	= Gilbert
× Volt × Hour	× Hour	= Watt-Hour
Ampere Absolute	× .001	= Kilowatt-Hour
Ampere: AC: Single Ph: × Volt	× 1.0	= Ampere
× Hour	× .001	= Kilovolt-Ampere
× PF	× .001	= Kilowatt-Hour
× % Eff	× .001	= Kilowatt
Ampere: AC: 2 Ph-4 Wire: × Volt	× .0013404825	= Horsepower Electric
× PF	× .002	= Kilovolt-Ampere
× % Eff	× .002	= Kilowatt
Ampere: AC: 3 Ph: × Volt	× .00268	= Horsepower Electric
× PF	× .00173	= Kilovolt-Ampere
× % Eff	× .00173	= Kilowatt
Ampere/Circular Mil	× .002319	= Horsepower Electric
Ampere DC: × Volt	× 197350.	= Ampere/Square Centimeter
Ampere-Hour	× .001	= Kilowatt
	× 360.	= Abcoulomb
	× 3600.	= Coulomb
	× .037307	= Faraday
	× 10792(9/o).	= Statcoulomb
Ampere-Hour/Gram × Volt	× 1.3411	= HP US-Hour/Kilogram
× Volt	× .60786	= HP US-Hour/Pound
Ampere International	× .999835	= Ampere Absolute
Ampere/Square Centimeter	× .1	= Abampere/Sq Centimeter
	× 6.45163	= Ampere/Sq Inch
	× 10000.	= Ampere/Sq Meter
	× 1.	= Current Density Unit
	× 2998(6/o).	= Statampere/Sq Centimeter
Ampere Squared	× Ohm	= Watt
× Ohm	× Second	= Joule
× Ohm	× Second	= Watt-Second
× Hour	× 3.4128	= Btu
× Minute	× .05688	= Btu
× Second	× .0009477	= Btu
	× .2389	= Gram-Calorie (Heat)
Ampere/Square Decimeter	× 9.29	= Ampere/Square Foot
Ampere/Square Foot	× .108	= Ampere/Square Decimeter
Ampere/Square Inch	× .0155	= Abampere/Sq Centimeter
	× .155	= Ampere/Sq Centimeter
	× 1550.	= Ampere/Sq Meter
Ampere/Square Meter	× 4647(5/o).	= Statampere/Sq Centimeter
	× .4/o1	= Abampere/Sq Centimeter
	× .3/o1	= Ampere/Sq Centimeter
	× .3/o6452	= Ampere/Sq Inch
Ampere/Square Mil	× 299800.	= Statampere/Sq Centimeter
Ampere-Second	× 155000.	= Ampere/Sq Centimeter
	× Volt	= Joule
Ampere-Turn	× Volt	= Watt-Second
	× .1	= Abampere-Turn
Ampere-Turn/Centimeter	× 1.2566	= Gilbert
	× .1	= Abampere-Turn/Centimeter
	× 2.540005	= Ampere-Turn/Inch
	× 100.	= Ampere-Turn/Meter

Ampere-Turn/Centimeter	× 1.2566	= Gilbert/Centimeter
	× 1.2566	= Oersted
Ampere-Turn/Inch	× .003937	= Abampere-Turn/Centimeter
	× .3937	= Ampere-Turn/Centimeter
	× 39.37	= Ampere-Turn/Meter
	× .49474	= Gilbert/Centimeter
	× .49474	= Oersted
Ampere-Turn/Meter	× .001	= Abampere-Turn/Centimeter
	× .01	= Ampere-Turn/Centimeter
	× .0254	= Ampere-Turn/Inch
	× .01257	= Gilbert/Centimeter
	× .01257	= Oersted
Angstrom	× .7/o1	= Centimeter
	× .8/o3937	= Inch
	× .003937	= Micro-Inch
	× .0001	= Micron
	× .6/o1	= Millimeter
Angstrom	× 10.	= Millimicron
Annulus: Large Diam Squared(−)Small Diam Squared	× .7854	= Area
Large Radius Squared(−)Small Radius Squared	× 3.1416	= Area
Antimonic: Sb:	= +5	= Valence
Antimony: (Sb) #51:121.76 AW: Val. +3:		
Cubic Foot	× 415.	= Pound at 68F
API Degree	+ 131.5	= 141.5/(Spg 60/60F)
Apostilb (asb)	× .3/o3183	= Stilb
(German-Hefner)	× .09	= Millilambert
(International)	× .1	= Millilambert
Ar	× 1.0	= Are
Arc Degree × Radius	× .017453292	= Arc Length
Arc Minute × Radius	× .000290888	= Arc Length
Arc Second × Radius	× .5/o4848	= Arc Length
Are	× .0247104	= Acre
	× 1.0	= Ar
	× .01	= Hectare
	× 1.	= Square Decameter
	× 1076.39	= Square Feet
	× 100.	= Square Meter
	× 3.954	= Square Rod
	× 119.6	= Square Yard
Argon: (A): #18:39.944 AW:		
Cubic Foot	× .11135	= Pound 32F
Liter	× 1.7837	= Gram 32F
Arsenate: AsO_4:	= −3	= Valence
Arsenic: (As): #33:74.91 AW: Val. +5:		
Arsenite: AsO_3:	= −3	= Valence
Arsenous: As:	= +3	= Valence
Asbestos: Cubic Foot	× 125 to 175	= Pound
Density: Cubic Centimeter	× 2 to 2.8	= Gram
Specific Heat	= .25	= Btu/Pound/°F
Thermal Conductivity	= .29	= Btu/Hr/Sqft/°F/Inch
Asheville N.C. Heating Load	= 4410.	= Degree-Day
Asphalt: Density: Cubic Centimeter	× 1.1 to 1.5	= Gram
Cubic Foot	× 69 to 94	= Pound
Specific Heat	= .55	= Btu/Pound/°F
Assay-Ton	× 450.0999	= Grain Troy
	× 29.166	= Gram
	× 29166.66	= Milligram
Atlanta Heating Load	= 2880.	= Degree-Day
Atmosphere (at): 32FHg76cm:	× 1.0332	= Atmosphere Metric
	× 1013250.	= Barye
	× 1.01321	= Bar
	× 76.018	= Centimeter Mercury 32F
	× 1013250.	= Dyne/Sq Centimeter
	× 27801.	= Feet Column of Air
	× 33.899	= Feet Water 39.2F
	× 33.93	= Feet Water 59F

A — CONVERSION FACTORS

Atmosphere (at): 32FHg76cm:	× 1033.228	= Gram/Sq Centimeter
	× 29.921	= Inch Mercury 32F
	× 406.785	= Inch Water 39.2F
	× 407.14	= Inch Water 59F
	× 10332.3	= Kilogram-Force/Sq Meter
	× .03734	= Kilogram-Slug/Cubic Meter
	× 1.03323	= Kilogram/Sq Centimeter
	× 1.01325	= Megabar
	× 1.01325	= Megadyne/Sq Centimeter
	× .76018	= Meter Mercury 32F
	× 10.34	= Meter Water 59F
	× 760.18	= Millimeter Mercury 32F
	× 101325.	= Newton/Square Meter
	× 2116.3536	= Pound/Sqft
	× 14.6969	= Pound/Sqin
	× 1.0581768	= Ton Short/Sqft
Atmosphere: 59F:	× 1.25	= Kilogram/Cubic Meter
Mass Density	= .002378	= Slug/Cubic Foot
Atmosphere: 62F:	× 33.947	= Feet Water
	× 30.011	= Inch Mercury
Atmosphere (Kg/Sq Cm)	× 98.0665	= Kilopascal
Atmosphere (760 Torr)	× 101.324997	= Kilopascal
Atmosphere Metric	× .9678	= Atmosphere 32F:Hg76cm
	× 32.84	= Feet Water 59F
	× 28.96	= Inch Hg 32F
	× 394.1	= Inch Water 59F
	× 1.0	= Kilogram/Sq Centimeter
	× .9807	= Megabar
	× .9807	= Megadyne/Sq Centimeter
	× .7356	= Meter Hg 32F
	× 10.01	= Meter Water 59F
	× 14.22	= Pound/Square Inch
	× 1.024	= Ton Short/Square Foot
Atmosphere Practical	× 1.0	= Atmosphere Metric
	× 1.0	= Kg-Force/Sq Centimeter
Atmospheric Pressure	+ Gage Pressure	= Absolute Pressure
	- Vacuum Pressure	= Absolute Pressure
Attic Louvre:"Squares" of Floor Space	× 1.0	= Sqft of Ventilation Needed
Automobile: Free Running: Ton Weight	× 35.	= Pound Drag @ 10 mph
	× 100 to 300	= Pound Drag @ 20-30 mph
Mile/Hour Squared	× .05	= Feet Stopping Distance

B

B	× 1.3.0	= Btu
Backfill By Hand: Cubic Yard	× .6	= Man-Hour Average Soil
	× .7	= Man-Hour Clay
	× .5	= Man-Hour Sand or Loam
Bakelite: Specific Heat	= .35	= Btu/Pound/°F
Ball: Diameter Cubed	× .5236	= Cubic Volume
Baltimore Heating Load	= 4600.	= Degree-Day
Bar	× .9869	= Atmosphere 76cm 32F
	× 14.504	= Pound/Square Inch
	× 100	= Kilopascal
Barrel	× 31.	= Gallon (Obsolete)
Barrel British	× 36.	= Gallon British
Barrel Or Cask:Mean Diam In × Height In	× .0034	= Gallon Liquid US
Barrel (42)	× 1.	= API Barrel
	× 4666600.	= Btu (Common)
	× 5.614583	= Cubic Feet
	× 4800.	= Cubic Feet Gas (Evaporated)
	× 9702.0288	= Cubic Inch
	× .20795	= Cubic Yard
	× 42.	= Gallon (API Standard)
	× 1.	= Oil Barrel
	× 336.	= Pint
	× 273 to 300	= Pound (273 Common)
	× 168.	= Quart

Barrel (42)/D

Barrel (42)/Hour

Barrel US (bbl)

Barrel US/Day

Barrel US Standard Cube

Barn

Barye

Bathroom Heater

Bau

Beam: Cantilever: Con. Lo
Cantilever: Uniform
Length Inch (No Si
Pipe-Tube: Diam. S
Rectang Width
Section s
Simple: Center Loac
Simple: Uniform Loa
Solid Round: Diame
Steel: Section Modu
Width Inch
(-320 × Slenderness

Bel

Belt: Flat: On Iron Pulley
Foot Diameter × rpm
Inch Diameter × rpm
Tight-Slack Pound Ter

Benzene Gas (60F-30"Hg):

Benzine: 68F: Cubic Foot
Gallon

Berkovetz

Beryllium: (Be) #4:9.02 AW:

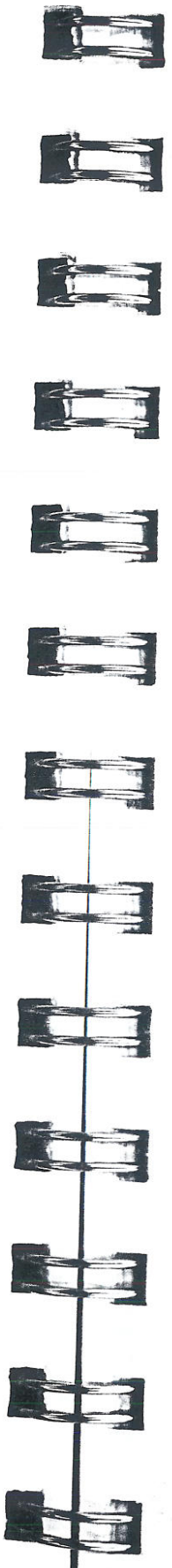
Bicarbonate: HCO_3:

Billion

Barrel (42)/Day	× 1.75	= Gallon/Hour
	× .0291666	= Gallon/Minute
	× .0004861111	= Gallon/Second
Barrel (42)/Hour	× .0935763	= Cubic Feet/Minute
	× 2.6949974	= Cubic Inch/Second
	× .7	= Gallon/Minute
Barrel US (bbl)	× ?	= Has No Legal Value
	× 119241.2	= Cubic Centimeter
	× 4.21094	= Cubic Feet
	× 7276.5	= Cubic Inch
	× .1192412	= Cubic Meter
	× 31.5	= Gallon (Customary)
	× 27.070	= Gallon Dry US
	× 1008.	= Gill
	× 119.24	= Liter
	× 252.	= Pint
	× 126.	= Quart
	× 108.28	= Quart Dry US
Barrel US/Day	× 1.3125	= Gallon/Hour
	× .029166	= Gallon/Minute
	× .0003646	= Gallon/Second
Barrel US Standard Cube	× 7161.15642187	= Cubic Inch
	× 31.5	= Gallon Liquid US
	= 19.275	= Inch On Each Side
Barn	× .23/o1	= Square Centimeter
Barye	× .5/o1	= Bar
	× 1.0	= Dyne/Sq Centimeter
Bathroom Heater	= 1000 to 1500	= Watt Avg Use
Bau	× 1.0	= BA Unit
	× .988	= Ohm Absolute
Beam: Cantilever: Con. Load: Lb × Inch Span	× 1.0	= Inch-Lb (MaxMoment)
Cantilever: Uniform: Lb × Inch Span	× .5	= Inch-Lb (MaxMoment)
Length Inch (No Side Sway Support)	= Inch Width	× Slenderness Ratio
Pipe-Tube: Diam. Squared × Thickness	× .8	= Section Modulus
Rectangular: Width × Depth Squared	× .1666	= Section Modulus
Section Modulus	× Unit Stress	= Inch-Pound Moment
Simple: Center Load: Lb × Inch Span	× .25	= Inch-Lb (MaxMoment)
Simple: Uniform Load: Lb × Inch Span	× .125	= Inch-Lb (MaxMoment)
Solid Round: Diameter Cubed	× .1	= Section Modulus
Steel: Section Modulus	× 20000.	= Internal Resisting Moment
Width Inch	× 40.	= Max Length Unbraced Span
(-320 × Slenderness Ratio)	+ 24800.	= psi Safe Unit Stress
Bel	× 10.	= Decibel
	× 1.0	= Sound Intensity Unit
Belt: Flat: On Iron Pulley	= .30	= Friction Coefficient
Foot Diameter × rpm	× 3.1416	= Feet/Minute Belt Speed
Inch Diameter × rpm	× .261789	= Feet/Minute Belt Speed
Tight-Slack Pound Tension Diff × fpm	× .4/o30303	= Horsepower
Benzene Gas (60F-30"Hg):	= 2.696	= Specific Gravity (Air = 1)
Cubic Feet	× 3744.	= Btu Gross Combustion Heat
	× 35.9	= Cuft Air for Combustion
	× .2064	= Pound
Cuft Mixed Air-Gas	× 101.55	= Btu Gross Combustion Heat
Flame Temperature	= 3765.	= Degree F Maximum
Pound	× 17986.	= Btu Gross Combustion Heat
	× 4.85	= Cubic Feet
	× 13.306	= Pound Air For Combustion
Benzine: 68F: Cubic Foot	× 56.1	= Pound
Gallon	× 7.5	= Pound
Berkovetz	× 400.	= Funt
	× 163.80	= Kilogram
	× 10.	= Pood
Beryllium: (Be) #4:9.02 AW:		
Bicarbonate: HCO_3:	=-1	= Valence
Billion	× 1.	= Milliard
	× .001	= Trillion

B CONVERSION FACTORS

Birmingham Heating Load	= 2530.	= Degree-Day
Bismarck S.D. Heating Load	= 8500.	= Degree-Day
Bismuth: (Bi): #83:209.00 AW: Val. +3:		
Bisulfate: HSO_4:	= -1	= Valence
Bisulfate: HSO_3:	= -1	= Valence
Blanket Electric:	= 200	= Watt Avg Use
Block: Cinder: 8x8x16: Block	× 25 to 35	= Pound (40-50% Hollow)
Conductivity	× .62	= Btu/Hr/Sqft/°F/8"
Resistivity	= 1.61	= Btu/Hr/Sqft/°F/8"
Concrete: 8x8x16: Blocks	× 40 to 50	= Pound (40-50% Hollow)
	× .05225	= Cubic Foot Mortar
Sqft Wall	× 1.125	= Blocks Required
Conductivity	= 1.00	= Btu/Hr/Sqft/°F/8"
Resistivity	= 1.00	= Btu/Hr/Sqft/°F/8"
Block, Rope: Inch Shell Length	× .125	= Inch Diameter Rope to Use
Bluestone: Cubic Foot	× 151.	= Pound
Ton	× 13.2	= Cubic Feet
Board-Foot (BF)	× 2359.7513	= Cubic Centimeter
	× .0833	= Cubic Foot
	× 144.	= Cubic Inch
	× 1.0	= Foot Board Measure
Boiler:Plate TS psi × Inch Plate Thick	× .333	= psi Safe WkPress × In Boiler Diam
Boiler: Square Feet of Grate	× 12.	= Pound Coal/Hour
Bolt	× 120.	= Feet
	× 36.576	= Meter
	× 40.	= Yard
Boron: (B): #5:10.82 AW: Val. +3:		
Boston Heating Load	= 6050.0	= Degree-Day
Bougie Decimales	× .96	= Candle English
	× .95	= Candle German
	× 1.00	= Candle International
	× .104	= Carcel
	× 1.11	= Hefner
	× .10	= 10-cp Pentane
Bouyancy: Drill Mud Lb/cuft × Pipe Wgt Lb/Ft	× .002	= Bouyancy Factor
Drill Pipe: Pound/Foot	× .06 to .13	= Pound/Foot (In Fluid)
Brass: 68F: Cubic Foot	× 527.	= Pound
Linear Expansion: Inch	× 9.6	= Micro-Inch/Degree F
Specific Heat	= .09 to .11	= Btu/Pound/°F
Brick: Backing Stonework: Bricks	× .009	= Mason-Hr(Cement Mortar)
	× .0078	= Mason-Hr(Lime Mortar)
Common: Bricks	× .037	= Cubic Foot Volume
Conductivity	= 5.00	= Btu/Hr/Sqft/°F/Inch
Cubic Foot	× 120.	= Pound
Eastern: Bricks	× 65.4	= Cuin (7.75×3.75×2.25)
Resistivity	= .20	= Btu/Hr/Sqft/°F/Inch
Western: Bricks	× 87.6	= Cuin (8.5×4.125×2.5)
Culling: Number Bricks	× .005	= Man-Hour
Enamelled: Bricks	× 74.3	= Cuin (8.25×4×2.25)
Sqft Wall	× 6.9	= Bricks
Facework: Bricks	× .0068	= Laborer-Hour
Plain Cut Jt :Bricks	× .0155	= Mason-Hr(FlemBond-CemMort)
	× .0148	= Mason-Hr(FlemBond-LimeMort)
	× .0112	= Mason-Hr(RunBond-CemOrLimeMort)
Rake Out(RO) :Bricks	× .02	= Mason-Hr(FlemBond-CemMort)
	× .0195	= Mason-Hr(FlemBond-LimeMort)
	× .0142	= Mason-Hr(RunBond-CemMort)
	× .0136	= Mason-Hr(RunBond-LimeMort)
Rodded :Bricks	× .0225	= Mason-Hr(FlemBond-CemMort)
	× .0215	= Mason-Hr(FlemBond-LimeMort)
RO-Strike Smooth:Bricks	× .0213	= Mason-Hr(FlemBond-CemMort)
	× .0205	= Mason-Hr(FlemBond-LimeMort)
	× .0154	= Mason-Hr(RunBond-CemMort)
	× .0148	= Mason-Hr(RunBond-LimeMort)
V Joint :Bricks	× .0167	= Mason-Hr(FlemBond-CemMort)
	× .016	= Mason-Hr(FlemBond-LimeMort)



Brick:Facework:RO-St
Joint
Hoistir
Horse Scaffold
Lay Common: Bri
(4
(3
Pole Scaffold
Pressed

Specific Heat
Standard

12" Wall

Wall:Cubic Feet
Wash Down

Brinell Hardness Numbe
Bromine(Bromide):(Br):
Bronze: 68F: Cubic Foo
Linear Exp
Specific H
Btu

Btu (39.2F)
(60F)
(Mean)
(Mean)
Btu/Cubic Foot

Btu/Day/Square Foot

Brick:Facework:RO-Strike Smooth:Bricks	× .0142	= Mason-Hr(RunBond-CemMort)
V Joint :Bricks	× .0136	= Mason-Hr(RunBond-LimeMort)
Hoisting :Bricks	× .00015	= Elevator-Hour/Story
Horse Scaffold :Linear Feet	× .085	= Laborer-Hour(Erecting)
Lay Common: Bricks	× .0051	= Laborer-Hour
(41/Wall-Inches) +4	× Bricks/1000	= Mason-Hr(Cement Mortar)
(30/Wall-Inches) +4	× Bricks/1000	= Mason-Hr(Lime Mortar)
Pole Scaffold :Linear Feet	× .140	= Laborer-Hour(Erecting)
Pressed :Bricks	× 69.8	= Cuin (8×3.875×2.25)
Sqft Wall	× 7.	= Bricks
Specific Heat	= .22	= Btu/Pound/°F
Standard :Bricks	× 67.5	= Cuin (8×3.75×2.25)
	× 4.1	= Pound
Sqft Wall	× 7.	= Bricks
12" Wall :Full Point In Inch	× .00114	= Cuyd Mortar/Brick
	× 1.14	= Cuyd Mortar/M-Brick
Wall:Cubic Feet	× 18.	= Bricks
Wash Down :Square Feet	× .01	= Mason-Hour
	× .005	= Laborer-Hour
Brinell Hardness Number on Steel	× 500.	= psi(Tensile Strength)
Bromine(Bromide):(Br):#35:79.916 AW: Val. -1:		
Bronze: 68F: Cubic Foot	× 546.	= Pound
Linear Expansion: Inch	× 9.8	= Micro-Inch/Degree F
Specific Heat	= .12	= Btu/Pound/°F
Btu	× 1.0	= British Thermal Unit
	× 251.996	= Calorie IT
	× 252.161	= Calorie Thermochemical
	× .001818	= Cuft Manufactured Gas
	× .3/o8884	= Cuft Natural Gas
	× 105487(5/o).	= Erg
	× 778.26	= Foot-Pound-Force
	× 25040.	= Foot-Poundal
	× 251.99579	= Gram-Calorie
	× 10756600.	= Gram-Centimeter
	× .0003984	= Horsepower-Hour Metric
	× .000392943	= Horsepower-Hour US
	× 9339.12	= Inch-Pound-Force
	× 1055.40	= Joule Absolute
	× 1054.886	= Joule International
	× .001	= Kilo Btu/(kB)
	× .25199579	= Kilogram-Calorie
	× .000293018	= Kilowatt-Hour
	× 107.566	= Kilogram-Meter
	× 10.41	= Liter-Atmosphere
	× 251.93	= Mean Calorie
	× 2.5193	= Ostwald Calorie
	× .0002988	= Poncelet-Hour
	× .4/o7644	= Pound Anthracite
	× .55555	= Pound-Calorie
	× .55555	= Pound-Chu
	× .3/o1598	= Pound Dry Wood
	× .4/o5234	= Pound Fuel Oil
	× .00103092	= Pound Water Evap @ 212F
	× .4/o1	= Therm
	× .293018	= Watt-Hour International
	× 1054.866	= Watt-Second
Btu (39.2F)	× 1060.4	= Joule
(60F)	× 1054.6	= Joule
(Mean)	× 779.	= Foot-Pound
(Mean)	× 1054.87	= Joule
Btu/Cubic Foot	× 8.8987	= Kilogram-Calorie/Cubic Meter
	× .0039	= Kilogram-Calorie/Liter
Btu/Day/Square Foot	× .04167	= Btu/Hr/Square Foot
	× .01130	= Gram-Calorie/Hr/Sqcm
	× .5/o3139	= Gram-Calorie/Sec/Sqcm
	× .4/o1314	= Watt/Sqcm

B CONVERSION FACTORS

Btu/Day/Square Foot/°F	× .04167	= Btu/Hr/SqFt/°F
	× .02034	= Gram-Calorie/Hr/Sqcm/°C
	× .5/o5651	= Gram-Calorie/Sec/Sqcm/°C
	× .4/o2366	= Watt/Sqcm/°C
Btu/Day/Square Foot/Inch/°F	× .04167	= Btu/Hr/SqFt/Inch/°F
	× .00347	= Btu/Hr/SqFt/Ft/°F
	× .05167	= Gram-Calorie/Hr/Sqcm/cm/°C
	× .4/o1435	= Gram-Calorie/Sec/Sqcm/cm/°C
	× .4/o6009	= Watt/Sqcm/Cm/°C
Btu/Hour	× .21611	= Foot-Pound/Second
	× .000392943	= Horsepower
	× .0002930	= Kilowatt
Btu/Hour/Square Foot	× 24.	= Btu/Day/SqFt
	× .2712	= Gram-Calorie/Hr/SqFt
	× .4/o7535	= Gram-Calorie/Sec/Sqcm
	× .0003154	= Watt/Sqcm
Btu/Hour/Square Foot/°F	× 24.	= Btu/Day/SqFt/°F
	× .4882	= Gram-Calorie/Hr/Sqcm/°C
	× .0001356	= Gram-Calorie/Sec/Sqcm/°C
	× 1761.	= Thermal Ohm/Sq Centimeter
	× .0005678	= Watt/Sqcm/°C
Btu/Hour-Square Foot-°F	× 1.0	= Overall Heat Transfer Coeff
Btu/Hour/Square Foot/Foot/°F	× 288.	= Btu/Day/Sqft/In/°F
	× 14.88	= Gram-Calorie/Hr/Sqcm/cm/°C
	× .004134	= Gram-Calorie/Sec/Sqcm/cm/°C
	× 173.	= Kilo-Erg/Sec/Sqcm/cm/°C
	× .01731	= Watt/Sqcm/cm/°C
Btu/Hour/Square Foot/Inch/°F	× 24.0	= Btu/Day/Sqft/Inch/°F
	× 1.241	= Gram-Calorie/Hr/Sqcm/cm/°C
	× .0003447	= Gram-Cal/Sec/Sqcm/cm/°C
	× .6/o3447	= Kilocalorie/Sec/Sqcm/cm/°C
	× .001441	= Watt/Sqcm/cm/°C
Btu/Minute	× 1785(5/o).	= Erg/Second
	× 46681.68	= Foot-Pound/Hour
	× 778.028	= Foot-Pound/Minute
	× 12.9671	= Foot-Pound/Second
	× .02389	= Horsepower Metric
	× .0235766	= Horsepower US
	× .252	= Kilogram-Calorie/Second
	× .0175811	= Kilowatt
	× 17.5811	= Watt
Btu/Pound	× .5555	= Kilogram-Calorie/Kilogram
	× .000645995	= Watt-Hour/Pound
Btu/Pound/°F	× 1.0	= Specific Heat Unit
× °F × Pound-Force	× Second Squared	= Btu × Foot
Btu/Second	× 2800900.	= Foot-Pound/Hour
	× 46681.68	= Foot-Pound/Minute
	× 778.28	= Foot-Pound/Second
	× 252.16	= Gram-Calorie/Second
	× 1.43436	= Horsepower Metric
	× 1.414596	= Horsepower US
	× .252	= Kilocalorie/Second
	× .25216	= Kilogram-Calorie/Second
	× 107.58	= Kilogram-Meter/Second
	× 1.05487	= Kilowatt
	× 1.075745	= Poncelet
	× 1054.87	= Watt
Btu/Square Foot	× 2.712	= Kilogram-Calorie/Sq Meter
Btu/Square Foot/°F Difference	× 4.882	= Kg-cal/Sq Meter/°C Diff
Btu/Square Foot/Minute	× .0236	= Horsepower US/Square Foot
	× .0176	= Kilowatt/Square Foot
	× .122	= Watt/Square Inch
Bucket (British Dry)	× 4.	= Gallon British
Buffalo N.Y. Heating Load	= 6750.	= Degree-Day
Bushel Heaped	× 1.25	= Bushel US Struck
Bushel Imperial	× 1.03202	= Bushel US Struck

Bushel Imperi

Bushel US

Butane Gas (6

Butt

Butte Montan
Butylene Gas

Cable British

Cable Length

Cadmium (Cc

CONVERSION FACTORS

B

Bushel Imperial	× 36.3683904	= Cubic Decimeter
	× 1.28431	= Cubic Feet
	× 2219.28768	= Cubic Inch
	× .0363683904	= Cubic Meter
	× 8.	= Gallon Dry Imperial
	× 36.368	= Liter
Bushel US	× .968972	= Bushel Imperial
	× .0277	= Chaldron
	× 35.2383	= Cubic Decimeter
	× 1.24446	= Cubic Feet
	× 2150.42688	= Cubic Inch
	× .035238	= Cubic Meter
	× .04609	= Cubic Yard
	× 3.52383	= Decaliter
	× 7.75178	= Gallon Dry Imperial
	× 8.	= Gallon Dry US
	× 9.30920	= Gallon Liquid US
	× .352383	= Hectoliter
	× 35.2383	= Liter
	× 1192.	= Ounce Fluid US Apoth
	× 4.	= Peck US
	× 64.	= Pint Dry US
	× 56.	= Pound Avoir: Corn
	× 32.	= Pound Avoir: Oat
	× 60.	= Pound Avoir: Potatoe
	× 60.	= Pound Avoir: Wheat
	× 32.	= Quart Dry US
	× 37.2368	= Quart Liquid US
	= 8" × 18.5"	= Standard Cylinder Size
	× 1.0	= US Standard Struck Bushel
	× 1.0	= Winchester Struck Bushel
Butane Gas (60F-30" Hg)	= 2.067	= Specific Gravity (Air = 1)
Cubic Feet	× 3267.	= Btu Gross Combustion Heat
	× 32.2	= Cuft Air for Combustion
	× .1583	= Pound
Cuft Mixed Air-Gas	× 101.32	= Btu Gross Combustion Heat
Flame Temperature	= 3735.	= Degree F Maximum
Pound	× 21293.	= Btu Gross Combustion Heat
	× 6.32	= Cubic Feet
	× 15.500	= Pound Air For Combustion
Butt	× 4.	= Barrel (31.5)
	× 126.	= Gallon Liquid US
	× 4032.	= Gill
	× 2.	= Hogshead
	× 1008.	= Pint
	× 1.	= Pipe
	× 504.	= Quart
Butte Montana Heating Load	= 8260.	= Degree-Day
Butylene Gas (60F-30" Hg)	= 1.936	= Specific Gravity (Air = 1)
Cuft Feet	× 3066.	= Btu Gross Combustion Heat
	× 29.6	= Cuft Air for Combustion
	× .152	= Pound
Cuft Mixed Air-Gas	× 107.27	= Btu Gross Combustion Heat
Flame Temperature	= 3775.	= Degree F Maximum
Pound	× 20833.	= Btu Gross Combustion Heat
	× 6.74	= Cubic Feet
	× 14.820	= Pound Air for Combustion

C

Cable British	× 608.	= Feet British
	× .1	= Mile British Nautical
Cable Length US	× 120.	= Fathom US Navy
	× 720.	= Feet US Navy
	× 219.457	= Meter
	× 960.	= Span
	× 240.	= Yard

Cadmium: (Cd): #48:112.41 AW: Val. +2:

Calcium: (Ca): #20:40.08AW: Val.+2:		
	× 2.50	= Calcium Carbonate
Bicarbonate	× .617	= Calcium Carbonate
Carbonate	× 1.06	= Sodium Carbonate
Chloride	× .902	= Calcium Carbonate
Hydroxide	× 1.35	= Calcium Carbonate
Nitrate	× .610	= Calcium Carbonate
Oxide	× 1.79	= Calcium Carbonate
Sulfate	× .735	= Calcium Carbonate
	× 1.04	= Sodium Sulfate
Calorie (cal)	× 1.0	= Calorie Small
	× 1.0	= Gram-Calorie (see)
Calorie/Gram	× 1.8	= Btu/Pound
	× 1.0	= Chu/Pound
Calorie/(Gram	× °C)	= Btu/ (Pound × °F)
	× °C)	= Chu/ (Pound × °C)
Calorie/Gram-Mole	× 1.8	= Btu/Pound-Mole
	× 1.0	= Chu/Pound-Mole
Calorie/ (Gram-Mole	× °C)	= Btu/ (Pound-Mole × °F)
	× °C)	= Chu/ (Pound-Mole × °C)
Calorie: Human Weight in Pound	× .5	= Calorie/Hour Basic Need
	× 3.5	= Calorie/Hour Heavy Work
	× 1.25	= Calorie/Hour Light Work
	× 2.0	= Calorie/Hour Moderate Work
	× .7	= Calorie/Hour Sitting
	× .8	= Calorie/Hour Standing
	× 1.0	= Calorie/Hour Walking
Calorie International Steam Table	× .001	= Calorie IT
Calorie IT	× 1000.	= Calorie Int. Steam Table
	× 1.000654	= Calorie Thermochemical
	× 4.18674	= Joule Absolute
	× 4.18605	= Joule International
	× 1.000654	= Kilo-Calorie
	× 1.00037	= Kilogram-Calorie Mean
	× .0011627907	= Watt-Hour International
Calorie IT/Gram	× 1.8	= Btu/Pound
Calorie Large	× 1.0	= Kilogram-Calorie (See)
Calorie Mean (0-100C)	× .003969	= Btu
	× 1.001	= Calorie IT
	× 1.00024	= Gram-Calorie
	× 1.0	= Gram-Calorie Mean
	× .00100024	= Kilogram-Calorie
	× .0099991	= Ostwald Calorie
	× .00220499	= Pound-Calorie
Calorie Thermochemical	× .0039657	= Btu
	× .99935	= Calorie IT
	× 41.2929	= Cucm (Atmos)
	× .021430	= Cuft-Pound (wt)/Sqin
	× 3.08595	= Foot-Pound
	× .5/o155856	= Horsepower-Hour
	× 4.1840	= Joule Absolute
	× 4.1833	= Joule International
	× .5/o116203	= Kilowatt-Hour Int.
	× .0412917	= Liter-Atmosphere
Candle	× 1.0	= Candlepower
	× 1.0	= Candle Standard
English	× 1.04	= Bougie Decimales
	× .98	= Candle German
	× 1.04	= Candle International
	× .1	= Carcel
	× 1.154	= Hefner
	× .104	= 10-cp Pentanes
German	× 1.055	= Bougie Decimales
	× 1.02	= Candle English
	× 1.055	= Candle International
	× .109	= Carcel

Candle German	× 1.17	= Hefner
	× .105	= 10-cp Pentanes
International	× 1.00	= Bougie Decimales
	× .96	= Candle English
	× .95	= Candle German
	× .104	= Carcel
	× 1.11	= Hefner
	× .10	= 10-cp Pentanes
Lighted	= .1	= Lumen/Watt
Standard	× 1.0	= Candle
	× 1.0	= Candlepower
Candle/Square Centimeter	× 1.0	= Brightness Unit
	× 929.	= Candle/Sq Foot
	× 6.4516	= Candle/Square Inch
	× 2919.	= Foot-Lambert
	× 3.1416	= Lambert
	× 3141.6	= Millilambert
	× 1.0	= Stilb
Candle/Square Foot	× 3.1416	= Foot-Lambert
Candle/Square Inch	× .1550	= Candle/Square Centimeter
	× 144.	= Candle/Square Ft
	× 1550.	= Candle/Sq Meter
	× 452.39	= Foot-Lambert
	× .48695	= Lambert
	× .1550	= Lumen/Sqcm/Steradian
	× 486.9	= Millilambert
Candle/Square Meter	× .0001	= Candle/Sq Centimeter
	× .0929	= Candle/Sq Foot
	× .3/o645	= Candle/Sq Inch
Candlepower (cp)	× 1.0	= Candlepower Spherical
	× 1.0	= Candle International
	× 12.56637	= Lumen
	× 1.0	= Luminous Intensity Unit
Candlepower: Mean Spherical	× 1.0	= Candlepower
	× 12.56637	= Lumen
Can Size: 8 oz. = 8 oz Weight	= 1.0	= Cupful (See Cup)
No. 1 = 11 oz. Weight	= 1.333	= Cupful
No. 1-1/2 = 16 oz. Weight	= 2.0	= Cupful
No. 2 = 20 oz. Weight	= 2.5	= Cupful
No. 2-1/2 = 28 oz Weight	= 3.5	= Cupful
No. 3 = 33 oz. Weight	= 4.0	= Cupful
Cantar (Egypt)	× 99.045	= Pound
Cape-Foot	× 1.033	= Feet British
Carat: Gold Fineness Measure	× .041666	= Parts Gold
Carat: International	× 3.08647127	= Grain
	× .2	= Gram
	× 200.	= Milligram
	× .007042	= Ounce
	× 4.	= Pearl Grain
	× .3/o441	= Pound
Carbide: C:	= -4	= Valence
Carbon: (C): #6:12.010 AW: .16 Sp Ht: Val. +4:		
Solid: Cubic Foot	× 145.	= Pound
Pound	× .0069	= Cubic Foot
Carbonate: CO_3:	= -2	= Valence
Carbon Dioxide (32F-30"Hg). Cubic Foot	× .123409	= Pound (Spg 1.5289)
Pound	× 8.103	= Cubic Feet
(60F-30"Hg). Cubic Foot	× .116	= Pound (Spg 1.5289 Air = 1)
Pound	× 8.54	= Cubic Feet
Carbon Monoxide (32F 30"Hg): Cubic Foot	× .07806	= Pound
Pound	× 12.811	= Cubic Feet
(60F-30"Hg): Cubic Foot	× 310.6	= Btu Gross Combustion Heat
	× 2.4	= Cuft Air for Combustion
	× .07405	= Pound (Spg. 9671 Air = 1)
Cuft Mixed Air-Gas	× 95.25	= Btu Gross Combustion Heat
Flame Temperature	= 3850.	= Degree F Maximum

C CONVERSION FACTORS

Carbon Monoxide Pound	× 4362.	= Btu Gross Combustion Heat
	× 13.50	= Cubic Feet
	× 2.471	+ Pound Air for Combustion
Carboy	× 5.	= Gallon
Carcel	× 9.61	= Bougie Decimales
	× 9.24	= Candle English
	× 9.19	= Candle German
	× 9.61	= Candle International
	× 10.66	= Hefner
	× .96	= 10-cp Pentanes
Casing: Base Area	× Height	= Volume (See Pipe-Tubing)
Base Perimeter	× Height	= Lateral Area
Circumference Squared × Height	× .07957747	= Volume
Diameter Foot × Foot High	× 3.1416	= Sqft Lateral Area
	× 452.389248	= Sqin Lateral Area
Diameter Foot × Inch High	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
Diameter × Height	× 3.1416	= Lateral Area
Diameter Inch × Foot High	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
Diameter Inch × Inch High	× .021816	= Sqft Lateral Area
	× 3.1416	= Sqin Lateral Area
Diameter Squared Foot × Foot High	× .139885	= Barrel (42)
	× .785398	= Cubic Foot
	× 1357.168	= Cubic Inch
	× 5.8752	= Gallon US
Diameter Squared Foot × Inch High	× .01165	= Barrel (42)
	× .06542	= Cubic Foot
	× 113.09734	= Cubic Inch
	× .489597	= Gallon US
Diameter Squared × Height	× .7854	= Volume
Diameter Squared Inch × Foot High	× .0009714234	= Barrel (42)
	× .005454	= Cubic Foot
	× 9.4247784	= Cubic Inch
	× .0408	= Gallon US
Diameter Squared Inch × 100 Foot	× .0971428	= Barrel (42)
Diameter Squared Inch x 1000 Foot	× .971428	= Barrel (42)
Diameter Squared Inch × Inch High	× .4/o8095195	= Barrel (42)
	× .00045451	= Cubic Foot
	× .785398	= Cubic Inch
	× .0034	= Gallon US
	× .000431	= Sack Cement
Diameter Squared Inch × Foot High	× .005177	= Sack Cement
Diameter Squared Foot × Inch High	× .06206	= Sack Cement
× Foot High	× .74613	= Sack Cement
Inside Radius × Height	× 6.28318	= Area Internal
Outside Radius × Height	× 6.28318	= Area External
Radius × Height	× 6.28318	= Lateral Area
Radius Squared × Height	× 3.1416	= Volume
Screw: Number Joints × (Inch Diam	× .1) +2.3	= Inch Make-Up Loss
Cast Iron: Cubical Expansion	= 18.	= Parts/Million/°F
Linear Expansion	= 5.9	= Parts/Million/°F
Cement: 1:1-1/2:3. Watertight Sack	× 3.5	= Cuft Concrete (Rich)
1:2 :4. Floor-Beam Sack	× 4.5	= Cuft Concrete (Standard)
1:2-1/2:5. Wall Sack	× 5.4	= Cuft Concrete (Medium)
1:3 :6. Mass Work Sack	× 6.5	= Cuft Concrete (Lean)
Gun: Sand Blasting: Square	× .4	= Cuyd Sand Used
Hour	× 100.	= Square Feet Cleaned
Gun Work: Each Coat	× .375	= Inch Maximum Thickness
Hour	× 300 to 1200	= Square Feet/Coat
Mix: Percent Water by Weight	× 1.5075	= Cuft Water/Sack
	× 11.275	= Gallon Water/Sack
	× 94.	= Pound Water/Sack
Natural: Barrel	× 282.	= Pound (Legal)
	× 3.	= Sack Cement
Sack	× 94.	= Pound (Legal)

Cement: Plaster

tlan

Cent Copper US

Cental

Centare

Centi

Centiare (ca)

Centigrade Degre

(Degr

Centigram (cg)

Centiliter (cl)

Centimeter (cm)

Centimeter/Secor

Centimeter/Secor

Cement: Plaster: Pound Cement	× .05 to .1	= Pound Lime to Add
Sack Cement	× .125	× Bushel Hair to Add
Portland: Barrel	× .140212	= Cubic Yard
	× 380.	= Pound (Common)
	× 376.	= Pound (Legal)
	× 4.	= Sack Cement
Cubic Foot	× 99.32	= Pound
Loose: Cubic Foot	× 70 to 90	= Pound
Packed: Cubic Foot	× 100 to 118	= Pound
Sack	× .25	= Barrel Cement
	× .94644	= Cubic Foot (Actual)
	× 1.1	= Cubic Feet Concrete
	× 1.0	= Cubic Foot (Common)
	× .035053	= Cubic Yard
	× 94.	= Pound (Legal)
Cent Copper US	× 48.	= Grain
Cental	× 1.	= Centner
	× 1.	= Hundredweight Short
	× 100.	= Pound
Centare	× 1.	= Centi-are
	× 10.764	= Square Feet
	× 1550.	= Square Inch
	× 1.	= Square Meter
Centi	× .01 = 10^{-2}	= One-Hundredth
Centiare (ca)	× 1.	= Centare
	× 1550.	= Square Inch
Centigrade Degree	+ 273.16	= Degree Centigrade Absolute
	× .8	= Degree Reaumur
	+ 273.16	= Kelvin Degree
(Degree	× 1.8) +32"	= Degree Fahrenheit
Centigram (cg)	× .15432356	= Grain
	× .01	= Gram
	× 10.	= Milligram
Centiliter (cl)	× .610270515	= Cubic Inch
	× .01	= Liter
	× 10.	= Milliliter
	× .33815	= Ounce Fluid
	× .018	= Pint Liquid US
Centimeter (cm)	× 1(8/o).	= Angstrom
	× .0004971	= Chain Gunter
	× .0328083	= Foot
	× .393700	= Inch
	× .4/o1	= Kilometer
	× .01	= Meter
	× 10000.	= Micron
	× 393.7	= Mil
	× .5/o54	= Mile Nautical
	× .5/o6214	= Mile Statute US
	× 10.	= Millimeter
	× 1(7/o).	= Millimicron
	× .0019884	= Rod
	× .0109361114	= Yard
Centimeter/Second	× 1.9684998	= Feet/Minute
	× .0328083	= Feet/Second
	× .036	= Kilometer/Hour
	× .0006	= Kilometer/Minute
	× 1.0	= Kine
	× .01943	= Knot/Hour
	× .6	= Meter/Minute
	× .01	= Meter/Second
	× .02237	= Mile/Hour
	× .4/o62137	= Mile/Second
Centimeter/Second/Second	× 1.0	= Centimeter/Second Squared
	× .03281	= Feet/Second/Second
	× .036	= Kilometer/Hour/Second
	× .01	= Meter/Second/Second

Centimeter Squared/Second	×	.02237	= Mile Statute US/Hour/Second
	×	1.0	= Dittusion Coefficient
Centipoise	×	.01	= Dyne-Second/Sq Centimeter
	×	100.	= Dyne-Second/Sq Meter
	×	.0645	= Dyne-Second/Sq Inch
	×	9.2903	= Dyne-Second/Sq Foot
	×	.01	= Gram-Mass/Centimeter-Second
	×	.6	= Gram-Mass/Centimeter-Minute
	×	36.	= Gram-Mass/Centimeter-Hour
	×	.00010194	= Kilogram-Force-Second/Sq Meter
	×	.4/o1	= Kilogram-Mass/Centimeter-Second
	×	.001	= Kilogram-Mass/Meter-Second
	×	.06	= Kilogram-Mass/Meter-Minute
	×	3.6	= Kilogram-Mass/Meter-Hour
	×	.01	= Poise
	×	.0002247	= Pound-Force-Second/Sq Meter
	×	.6/o145	= Pound-Force-Second/Sq Inch
	×	.4/o209	= Pound-Force-Second/Sq Foot
	×	.8/o242	= Pound-Force-Minute/Sq Inch
	×	.6/o348	= Pound-Force-Minute/Sq Foot
	×	.6/o2204	= Pound-Mass/Centimeter-Second
	×	.4/o56	= Pound-Mass/Inch-Second
	×	.000672043	= Pound-Mass/Foot-Second
	×	.4/o1322	= Pound-Mass/Centimeter-Minute
	×	.00336	= Pound-Mass/Inch-Minute
	×	.04032	= Pound-Mass/Foot-Minute
	×	.4/o7837	= Pound-Mass/Centimeter-Hour
	×	.2016	= Pound-Mass/Inch-Hour
	×	2.4193548	= Pound-Mass/Foot-Hour
	×	.6/o2204	= Poundal-Second/Sq Centimeter
	×	.4/o56	= Poundal-Second/Sq Inch
	×	.000672043	= Poundal-Second/Sq Foot
	×	.4/o1322	= Poundal-Minute/Sq Centimeter
	×	.00336	= Poundal-Minute/Sq Inch
	×	.04032	= Poundal-Minute/Sq Foot
	×	.4/o7837	= Poundal-Hour/Sq Centimeter
	×	.2016	= Poundal-Hour/Sq Inch
	×	2.4193548	= Poundal-Hour/Sq Foot
	×	Rhe	= .01
Centistere	×	.01	= Stere
Centistoke	×	Density	= Centipoise
	×	spg	= Centipoise
	×	1.0	= Kine
	(See pg. 163)		= Saybolt Second
	×	.01	= Square Centimeter/Second
	×	.4/o1076	= Square Feet/Second
	×	.001550	= Square Inch/Second
	×	.01	= Stoke
Centner	×	1.	= Cental
	×	1.	= Hundredweight Short
	×	100.	= Pound
	×	100.	= Skalpund
Century	×	100.	= Years
Cerium: (Ce):#58:140.13 AW:			
Cesium: (Cs): #55:132.91 AW:			
Chain:	×	25.	= Fathom
Engineer	×	100.	= Feet
	×	30.480	= Meter
Gunter	×	2012.	= Centimeter
	×	66.	= Feet
	×	.1	= Furlong
	×	792.	= Inch
	×	.0212	= Kilometer
	×	100.	= Link
	×	20.11684	= Meter
	×	.01085	= Mile Nautical US

Chain: Gunter	× .0125	= Mile Statute US
	× 4.	= Perch-Pole-Rod
	× 22.	= Yard
Philadelphia Standard	× 100.25	= Feet
	× 30.556	= Meter
Chaldron	× 36.	= Bushel
Charleston S. C. Heating Load	= 1770.	= Degree-Day
Charleston W. V. Heating Load	= 3790.	= Degree-Day
Chat: Cubic Yard	× 2400.	= Pound (Common)
Cheval-Vapeur	× .9863	= Horsepower US
	× 75.	= Kilogram-Meter/Second
	× 1.0	= Metric Horsepower
	× 1.0	= Pferde Starke
Chicago Heating Load	= 6000.	= Degree-Day
Chlorate: ClO_3:	= −1	= Valence
Chloride: Cl:	= −1	= Valence
Chlorine: (Cl):#17:35.457 AW: Val.−1:		
Chromate: CrO_4:	= −2	= Valence
Chromic: Cr:	= +3	= Valence
Chromium: (Cr):#24:52.01 AW:		
Chu	× 1.8	= Btu
	× 1.0	= Centigrade Heat Unit
	× 454.	= Gram-Calorie
	× 1.0	= Pcu
Chu/Pound	× 1.8	= Btu/Pound
	× 1.0	= Pound-Centigrade Heat Unit
Chu/Pound-Mole	× 1.8	= Btu/Pound-Mole
Circle	= 360.	= Degree
	= 400.	= Grade
	= 21600.	= Minute
	= 4.	= Quadrant
	= 6.283185	= Radians
	= .002778	= Reciprocal of 1/360
	= 1296000.	= Second
	= 6.	= Sextant
	= 12.	= Sign
Circle: Arc Degree × Radius	= 57.29578	× Arc Length
Arc Degree × Radius Squared	× .008273648	= Area Sector
Arc Length × Radius	× .5	= Area Sector
Area	× 1.2732	= Area Circumscribed Square
	× .63662	= Area Inscribed Square
Area × Arc Degree	× .002777	= Area Sector
Circle: Circumference	× .3183098	= Diameter
	× 1.12838	= Perimeter of Equal Square
	× 6.283185	= Radian
	× .159155	= Radius
	× .28209	= Side Equal Square
	× .22508	= Side Inscribed Square
Circumference × Diameter	× .25	= Area
Circumference Feet	× 3.8197	= Inch Diameter
Circumference × Radius	× .5	= Area
Circumference Squared	× .079577	= Area
Circle: Diameter	× 3.1416	= Circumference
	× .88623	= Side Equal Square
	× .86603	= Side Equilateral Triangle
	× .70711	= Side Inscribed Square
	× .7854	= Side of Square of Eq. Perim.
Diameter × Circumference	× .25	= Area
Diameter 64th Inch	× .04909	= Inch Circumference
32nd Inch	× .09818	= Inch Circumference
16th Inch	× .19635	= Inch Circumference
8th Inch	× .39270	= Inch Circumference
4th Inch	× .7854	= Inch Circumference
Half Inch	× 1.5708	= Inch Circumference
Inch	× 3.1416	= Inch Circumference
Inch	× .261799	= Foot Cifcumference

C — CONVERSION FACTORS

Circle: Diameter Inch Squared	× .0054541	= Sqft Area
	× .785398	= Sqin Area
Diameter Squared	× .785398	= Area
Squared in Mils	× 1.0	= Circular Mil
Circle: Minute	× 60.	= Second
Circle: Quadrant	× 90.	= Degree
	× 3.	= Sign
Circle: Radius	× 6.28318	= Circumference
	× 2.	= Diameter
× Arc Degree	× .01745467	= Arc Length
× Arc Minute	× .0002909	= Arc Length
× Arc Second	× .5/o488833	= Arc Length
× Circumference	× .5	= Area
Squared	× 3.1416	= Area
Squared × Included Angle	× .0087273648	= Sector Area
Circle: Side of Equal Square	× 3.545	= Circumference Equal Circle
	× 1.12837	= Diameter Equal Circle
Inscribed Square	× 4.4428	= Circumference
	× 1.41421	= Diameter
Square	× 1.27324	= Circle Diam. of Equal Perimeter
Sign	× 30.	= Degree
Square Root of Area	× 3.5449	= Circumference
	× 1.12838	= Diameter
	× .564189	= Radius
Circular: Acre	= 235.504	= Feet Diameter
1/4 Acre	= 117.752	= Feet Diameter
1/2 Acre	= 166.527	= Feet Diameter
2-1/2 Acre	= 372.339	= Feet Diameter
Circular Centimeter	× .1550	= Circular Inch
	× 155000.	= Circular Mil
	× 100.	= Circular Millimeter
	× .785398	= Square Centimeter
	× .121736	= Square Inch
	× 78.5398	= Square Millimeter
Circular Foot	× 929.034	= Circular Centimeter
	× 144.	= Circular Inch
	× 729.662	= Square Centimeter
	× .785398	= Square Foot
	× 113.097	= Square Inch
Circular Inch	× 6.45163	= Circular Centimeter
	× .00694444	= Circular Foot
	× 1(6/o).	= Circular Mil
	× 645.163	= Circular Millimeter
	× .2618	= Foot Circumference
	× 3.1416	= Inch Circumference
	× 5.06709	= Square Centimeter
	× .00545415	= Square Foot
	× .785398	= Square Inch
	× 785398.	= Square Mil
	× 506.709	= Square Millimeter
Circular Mil	× .5/o1	= Circular Inch
	× .00064516	= Circular Millimeter
	× Foot	= Mil-Foot
	× .5/o50671	= Square Centimeter
	× .6/o7854	= Square Inch
	× .7854	= Square Mil
	× .00050671	= Square Millimeter
	= Circle Diameter Squared in Mils	
Circular Millimeter	× 1550.	= Circular Mil
	× .007854	= Square Centimeter
	× .7854	= Square Millimeter
Cistern: Feet Diameter Squared	× .1865	= Barrel (31.5)/Foot Deep
	× 5.875	= Gallon US/Foot Deep
Clark Degree: Gallon British	× 1.0	= Grain Calcium Carbonate
Gallon US	× .829	= Grain Calcium Carbonate
Clay: Drained:	= 45.	= Degree Natural Slope

Clay: Dry: Cubic Foot	× 85 to 90	= Pound
Cubic Yard	× 3100.	= Pound
Soft: Square Foot	× .5 to 1.	= Ton (Supports)
Wet:	= 16.	= Degree Natural Slope
Wet: Cubic Foot	× 95 to 105	= Pound
Cleveland Ohio Heating Load	= 6005.	= Degree-Day
Clothes Drier:	= 4500 to 9000	= Watts Avg Use
Coal: Anthracite: Cubic Foot	× 50 to 58	= Pound Range
Pound	× 9620 to 13081	= Btu (Maximum 13955)
	× 23.783	= Cuft Manufactured Gas
	× 11.621	= Cuft Natural Gas
	× .2254	= Cuft Water Evap. @ 212F
	× 10180180.	= Foot-Pound
	× 1.68661089	= Gallon Water Evap. @ 212F
	× 5.1432	= Horsepower-Hour
	× 138(5/o).	= Joule
	× 3.8333	= Kilowatt-Hour
	× .9009	= Pound Bituminous Coal
	× 2.09	= Pound Dry Wood
	× .68468	= Pound Fuel Oil
	× 13.486	= Pound Water Evap. @ 212F
Ton Long	× 6.27	= Barrel (42) Oil
	× 40.	= Cubic Feet
Ton Short	× 5.6	= Barrel (42) Oil
Coal: Bituminous: Cubic Foot	× 42 to 57	= Pound (Range)
Pound	× 11988 to 15045	= Btu(Range)
	× 14520.	= Btu (Heat Value)
	× 26.4	= Cuft Manufactured Gas
	× 12.9	= Cuft Natural Gas
	× 113(5/o).	= Foot-Pound
	× 5.709	= Horsepower-Hour
	× 15318000.	= Joule
	× 4.255	= Kilowatt-Hour
	× 1.11	= Pound Anthracite
	× 2.32	= Pound Dry Wood
	× .76	= Pound Fuel Oil
	× 14.97	= Pound Water Evap. @ 212F
Ton Long	× 45.	= Cubic Feet
Coal: Burned: Pound	× .068	= Pound Ashes
Ton Long	× 152.	= Pound Ashes
Ton Short	× 136.	= Pound Ashes
Fuel Value: Ton	× 4.125	= Barrel (42) Crude Oil
	× 2.	= Cord (basswd-White Pine)
	× 1.	= Cord (Beech-Birch-Locust)
	× 2.	= Cord(Cedar-Poplar-Spruce)
	× 1.	= Cord(Cherry-Lglf Pine)
	× 2.	= Cord(Cyp-Catalpa-Redwd)
	× 1.5	= Cord (Douglas Fir-Maple)
	× 1.	= Cord (Hick-Oak-Ash-Elm)
	× 1.5	= Cord (Shtlf Pine-Red Gum)
	× 1.5	= Cord (Sycamore-Hemlock)
	× 32000.	= Cuft (500 Btu) Manftd Gas
	× 22000.	= Cuft (800 Btu) Mixed Gas
	× 16000.	= Cuft (1000) Natural Gas
Pound	× 12000.	= Btu (Develops) Common
	× 1200.	= Btu (Effective)
Cobalt: (Co):#27:58.94AW:		
Coffeemaker:	= Up to 1000	= Watt Avg Use
Coffeespoonful	× 30.	= Minim (Drops)
Columbium: (Cb): #41:92.91 AW:		
Common Logarithm	× 2.3025851	= Naperian Log
Concrete: Chg-Mix-Carry-Spread: (Ft Carry	× .018) + 2.6	= Man-Hour/cuyd
Cuyd × Port Rock × (Bbl Cement	× .1407)	= Cuyd Rock
Cuyd × Port Sand × (Bbl Cement	× .1407)	= Cuyd Sand
Finishing: Square Foot	× .2	= Man-Hour (B-Hammer)
	× .2	= Man-Hour (Crandalling)

C CONVERSION FACTORS

Concrete: Finishing: Square Foot	× .15	= Man-Hour (Carborundum Rub)
	× .05	= Man-Hour (Cement Wash)
	× .03	= Man-Hour (Floors)
	× .17	= Man-Hour (Picking)
Inch Thickness	× .00308	= Cubic Yard/Square Foot
Inch Thickness	× .02772	= Cubic Yard/Square Yard
Parts: Cement + Sand + Rock × .0909	× Bbl Cement	= Cubic Yard Mix
Tensile Strenght	= 300.	= Pound/Square Inch
Topping (1"): Use 1 Part Portland Cement and 3 Part Sand.		
Wet Mix: Cubic Foot	× 115 to 125	= Pound
Cubic Yard	× 3105 to 3375	= Pound
	× 1.386 to 1.51	= Ton Long
	× 1.55 to 1.69	= Ton Short
1:2 :4 Inch Thickness	× .272	= Cubic Yard Rock/Square
	× .136	= Cubic Yard Sand/Square
	× 1.85	= Sax Cement/Square
1:2-1/2:5: Inch Thickness	× .282	= Cubic Yard Rock/Square
	× .141	= Cubic Yard Sand/Square
	× 1.54	= Sax Cement/Square
(6 Gal/Sack = 2500 psi)(7-1/2 Gal/Sack = 1600 psi)(9 Gal/Sack = 1000 psi)		
Cone: Base Area × Height	× .333	= Volume
Diameter Squared × Height	× .261799	= Volume
Radius Squared × Height	× 1.047197	= Volume
Slant Height × Perimeter	× .5	= Lateral Area
Slant Height × Base Diameter	× 1.5708	= Lateral Area
Slant Height × Base Radius	× 3.1416	= Lateral Area
Copper: (Cu)#29.68.57 AW: .10 Sp Ht:		
68F: Cubic Foot	× 555.	= Pound
Cubic Inch	× .319	= Pound
Cubical Expansion	= 27.	= Parts/Million/°F
Linear Expansion	= 9.0	= Parts/Million/°F
Linear Expansion:Inches	× 8.9	= Micro-Inch/Degree F
Mil-Foot	× 10.4	= Ohm Resistance
Specific Thermal Capacity	= 58.0	= Watt-Second/Cuin/°C
Thermal Conductivity	= 9.0	= Watt/°C/Inch
Cord (cd)	× 8.	= Cord-Feet
	× 128.	= Cubic Feet (Pile Volume)
	× 80.	= Cubic Feet (Wood Volume)
	× 3.624576	= Cubic Meter
	= 4×4×8	= Pile Size in Feet
Cord-Foot (cdft)	× .125	= Cord
	× 16.	= Cubic Feet
	× .45306	= Cubic Meter
	= 4×4×1	= Pile Size in Feet
Corn: Shelled: Crib Volume in Cubic Feet	× .4	= Bushel US Struck
Corrosion: Electrolytic: Carries Away 20 Pound Iron/Ampere/Year of Current Flow.		
Corrugated Sheet: Depth×Thickness×Width	× 99900.	= Lb Breaking Wgt × Long(All Inch)
Coulomb (Q)	× .1	= Abcoulomb
	× .00027777	= Ampere-Hour
	× 1.0	= Coulomb Absolute
	× 1.00016	= Coulomb International
	× 1.	= Electric Quantity Unit
	× 62425(14/o).	= Electron/Second
	× .4/o10365	= Faraday
	× Volt	= Joule
	× 1.0	= Quantity Unit Practical
	× 2998(6/o).	= Statcoulomb
	× Volt	= Watt-Second
Coulomb Absolute	× 1.0	= Coulomb
Coulomb International	× .999835	= Coulomb
	× .999835	= Coulomb Absolute
Coulomb/Second	× Ohm	= Volt
Coulomb/Square Centimeter	× .1	= Abcoulomb/Sq Centimeter
	× 1.	= Charge/Unit Area
	× 6.452	= Coulomb/Sq Inch
	× 10000.	= Coulomb/Sq Meter

Coulomb/Square Centimeter	× 2998(6/o).	= Statcoulomb/Sq Centimeter
	× .01550	= Abcoulomb/Sq Centimeter
	× .155	= Coulomb/Sq Centimeter
	× 1550.	= Coulomb/Sq Meter
	× 4647(5/o).	= Statcoulomb/Sq Centimeter
Coulomb/Square Meter	× .4/o1	= Abcoulomb/Square Centimeter
	× .3/o1	= Coulomb/Square Centimeter
	× .3/o6452	= Coulomb/Square Inch
	× 299800.	= Statcoulomb/Square Centimeter
Count:	× 840.	= Yard/Pound (Cotton)
Continental/1000 Meter Skein Spun Silk	× 1.0	= Kilogram
English Dram/1000 Yard Skein Thrown Silk in Drams		
International Metric Yarn	× 1.0	= Meter/Gram
Legal Denier/450 Meter Skein Raw Silk	× 5.0	= Centigram
Cube: Length of Side	× 1.7321	= Diagonal
Side Squared	× 6.	= Total Surface Area
	× Side	= Volume
Cubic Centimeter (cc)	× .001	= Cubic Decimeter
	× .4/o35314445	= Cubic Foot
	× .06102338	= Cubic Inch
	× 1000.	= Cubic Millimeter
	× .5/o130795	= Cubic Yard
	× .28157	= Dram Fluid
	× .000264173	= Gallon Liquid US
	× .00023	= Gallon Dry US
	× 15.43236	= Grain
	× .999973	= Gram Water 39.1F
	× .998844	= Gram Water 62F
	× .000999973	= Liter
	× .999973	= Milliliter
	× .033814	= Ounce Fluid US
	× .0018162	= Pint Dry US
	× .0021134	= Pint Liquid US
	× .00091	= Quart Dry US
	× .00106	= Quart Liquid US
Cubic Centimeter/Gram-Mole	× 1.0	= Molecular Volume Unit
Cubic Decimeter (cudm)	× .02838	= Bushel US Struck
	× 1000.	= Cubic Centimeter
	× 61.0234	= Cubic Inch
	× .0353144	= Cubic Foot
	× .001308	= Cubic Yard
	× .22702	= Gallon Dry US
	× .26417	= Gallon Liquid US
	× .999973	= Liter
	× .90808	= Quart Dry US
	× 1.05668	= Quart Liquid US
Cubic Foot (cuft)	× .4/o229568	= Acre-Foot
	× .23748	= Barrel (31.5)
	× .1781	= Barrel (42)
	× .803564	= Bushel US Struck
	× 28317.016	= Cubic Centimeter
	× 28.317016	= Cubic Decimeter
	× 1728.	= Cubic Inch
	× .02832	= Cubic Meter
	× .037037	= Cubic Yard
	× 2200.	= Cylindrical Inch
	× 6.428594	= Gallon Dry US
	× 6.232082	= Gallon Liquid British 39.1F
	× 7.480519	= Gallon Liquid US 39.1F
	× 239.37662	= Gill
	× 28.317016	= Liter
	× Density	= Mass
	× 957.5	= Ounce Fluid US Apoth.
	× 3.21426	= Peck
	× 51.42809	= Pint Dry US
	× 59.84416	= Pint Liquid US

CONVERSION FACTORS

Cubic Foot (cuft)	× Pound/Cuft	= Pound-Mass
	× 25.71405	= Quart Dry US
	× 29.92208	= Quart Liquid US
	× 1.	= Sack Cement (Common)
	× .00238095	= Ton Shipping British
	× .025	= Ton Shipping US
Cubic Foot/Day	× .000694459	= Cubic Feet/Minute
Cubic Foot/Hour	× .01666	= Cubic Feet/Minute
	× .000277	= Cubic Feet/Second
	× 7.48	= Gallon Liquid US/Hour
	× .1247	= Gallon Liquid US/Minute
	× .002078	= Gallon Liquid US/Second
Cubic Foot Million	× 22.95	= Acre-Feet
Million/Day	× 11.5741	= Cubic Feet/Second
Cubic Foot/Minute (cfm)	× 10.686	= Barrel (42)/Hour
	× .1781	= Barrel (42)/Minute
	× 471.950	= Cubic Centimeter/Second
	× 1440.	= Cubic Feet/Day
	× 60.	= Cubic Feet/Hour
	× .0166	= Cubic Feet/Second
	× 28.800	= Cubic Inch/Second
	× .02832	= Cubic Meter/Minute
	× 10771.2	= Gallon Liquid US/Day
	× 448.83	= Gallon Liquid US/Hour
	× 7.480519	= Gallon Liquid US/Minute
	× .1247	= Gallon Liquid US/Second
	× .4719	= Liter/Second
	× 3741.3	= Pound Water 62F/Hour
	× 62.425	= Pound Water 39.1F/Minute
	× 62.355	= Pound Water 62F/Minute
Cubic Foot/Second (cfs)	× 15387.43	= Barrel (42)/Day
	× 86400.	= Cubic Feet/Day
	× 60.	= Cubic Feet/Minute
	× 646316.8416	= Gallon Liquid US/Day
	× 26929.86	= Gallon Liquid US/Hour
	× 448.831	= Gallon Liquid US/Minute
	× .646316	= Million Gallon US/Day
	× 224460.	= Pound Water 62F/Hour
	× 3741.3	= Pound Water 62F/Minute
Cubic Inch (cuin)	× ..0004650	= Bushel US Std Struck
	× 16.387162	= Cubic Centimeter
	× .16387162	= Cubic Decimeter
	× .000578704	= Cubic Foot
	× .4/o214334	= Cubic Yard
	× .003720	= Gallon Dry US
	× .003607	= Gallon Liquid British
	× .004329	= Gallon Liquid US
	× .01638673	= Liter
	× .55411	= Ounce Fluid US Apoth
	× .0346320	= Pint Liquid US
	× .01488	= Quart Dry US
	× .017316	= Quart Liquid US
Cubic Meter (cum)	× 6.2897	= Barrel (42)
	× .2759	= Cord
	× 1(6/o).	= Cubic Centimeter
	× 1000.	= Cubic Decimeter
	× 35.314445	= Cubic Feet
	× 61023.36	= Cubic Inch
	× 1.307954	= Cubic Yard
	× 227.02	= Gallon Dry US
	× 220.	= Gallon Liquid British
	× 264.17	= Gallon Liquid US
	× 10.	= Hectoliter
	× 1.	= Kiloliter
	× 1000.	= Liter
	× 908.08	= Quart Dry US

Cubic Meter (cum)	× 1056.7	= Quart Liquid US
	× 1.	= Stere
Cubic Meter/Minute	× .5886	= Second-Foot
Cubic Millimeter	× .01693	= Minim
Cubic Yard (cuyd)	× .00062	= Acre-Foot
	× 4.8089	= Barrel (42)
	× 21.6962	= Bushel US Struck
	× 764559.4	= Cubic Centimeter
	× 764.559	= Cubic Decimeter
	× 46656.	= Cubic Inch
	× 27.	= Cubic Feet
	× .76455	= Cubic Meter
	× 173.570	= Gallon Dry US
	× 202.19735	= Gallon Liquid US
	× 764.56	= Liter
	× 25853.	= Ounce Fluid US Apoth.
	× 694.279	= Quart Dry US
	× 807.896	= Quart Liquid US
Cubit:	× 45.72	= Centimeter
	× 18.0	= Inch
Bible	× 21.8	= Inch
Cubitus (Ancient Roman	× 17.4	= Inch
	× 1.5	= Roman Feet
Greek Olympic	× 24.	= Digit or Finger-Breadth
	× 18.24	= Inch
	× 6.	= Palm
	× 2.	= Span
Hebrew	× 19 to 26	= Inch
Royal Egyptian	× 20.62	= Inch
Cup	× .5	= Pint
	× 16.	= Tablespoon
Cupric: Cu:	= +2	= Valence
Cuprous: Cu:	= +1	= Valence
Curie	× 37(9/o).	= Disintegrations/Second
Cut: (Glass)	× 100.	= Yard/Pound Avoir
(Woolen:Silk Noil)	× 300.	= Yard/Pound Avoir
CWT	× 1.	= Hundredweight
	× 100.	= Pound
Cyanide: CN:	= −1	= Valence
Cylinder: Base Area	× Height	= Volume
Base Perimeter	× Height	= Lateral Area
Circumference Squared × Height	× .07957747	= Volume
Cylinder: Diameter Foot × Foot High	× 3.1416	= Sqft Lateral Area
	× 452.389248	= Sqin Lateral Area
× Inch High	× .2617989	= Sqin Lateral Area
	× 37.69908	= Sqft Lateral Area
Diameter × Height	× 3.1416	= Lateral Area
Diameter Inch × Foot High	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
× Inch High	× .021816	= Sqft Lateral Area
	× 3.1416	= Sqin Lateral Area
Diameter Squared Foot × Foot High	× .139885	= Barrel (42)
	× .785398	= Cubic Foot
	× 1357.17	= Cubic Inch
	× 5.8752	= Gallon US
Diameter Squared Foot × Inch High	× .01165	= Barrel (42)
	× .0654	= Cubic Foot
	× 113.097	= Cubic Inch
	× .489597	= Gallon US
Diameter Squared × Height	× .7854	= Volume
Diameter Squared Inch × Foot High	× .0009714234	= Barrel (42)
	× .00545	= Cubic Foot
	× 9.4247784	= Cubic Inch
	× .0408	= Gallon US
Diameter Squared Inch × Inch High	× .4/o8095195	= Barrel (42)
	× .000454	= Cubic Foot

C — CONVERSION FACTORS

Cylinder: Diameter Squared Inch × Inch High	× .785398	= Cubic Inch
	× .0034	= Gallon US
Inside Radius × Height	× 6.28318	= Area Internal
Outside Radius × Height	× 6.28318	= Area External
Radius × Height	× 6.28318	= Lateral Area
Radius Squared × Height	× 3.1416	= Volume
Cylindrical Foot	× .02909	= Cubic Yard
	× 4.895	= Gallon Liquid British
	× 5.874	= Gallon Liquid US
Cylindrical Inch	× .0004546	= Cubic Foot
	× .002832	= Gallon Liquid British
	× .0034	= Gallon Liquid US

D

Dallas Heating Load	= 2455.	= Degree-Day
Darcy	× 1.	= Permeability Unit
Darcy = Cuft/Day/Sqft Sand/psf Pressure Differential/Foot Sand Thickness.		
Day	× 24.	= Hour
	× .0329	= Month (1/12 year)
	× 1440.	= Minute
	× 86400.	= Second
	× .00274	= Year
Day/Kilogram	× .45359	= Day/Pound Avoir
	× .031104	= Day/Ounce Troy
	× .024	= Hour/Gram
	× .74649	= Hour/Ounce Troy
	× .68039	= Hour/Ounce Avoir
	× 10.88622	= Hour/Pound Avoir
	× .0864	= Second/Milligram
	× .085157	= Year/Kilo-Ounce Troy
	× 2.73791	= Year/Ton Metric
	× 2.48379	= Year/Ton Short Avoir
Day/Ounce Troy	× 32.15072	= Day/Kilogram
	× .77162	= Hour/Gram
	× 24.	= Hour/Ounce Troy
	× 2.77778	= Second/Milligram
	× 2.73791	= Year/Kilo-Ounce Troy
	× 88.02578	= Year/Ton Metric
Day/Pound Avoir	× 2.20462	= Day/Kilogram
	× .052911	= Hour/Gram
	× 1.5	= Hour/Ounce Avoir
	× 24.	= Hour/Pound Avoir
	× .19048	= Second/Milligram
	× 6.03606	= Year/Ton Metric
	× 5.47582	= Year/Ton Short Avoir
Deca	× 1.0	= Deka
	= 10.	= Ten
Decagon: Short Radius Squared	× 3.24920	= Area
Width of Side Squared	× 7.694209	= Area
Decagram (dkg)	× 1.0	= Dekagram
	× 5.64383	= Dram
	× 154.32349	= Grain
	× 10.	= Gram
	× .35273957	= Ounce Avoirdupois
	× .321	= Ounce Troy
	× .022056	= Pound Avoirdupois
	× .02679	= Pound Troy
Decaliter (dkl)	× .28378	= Bushel US Struck
	× 1.0	= Dekaliter
	× 610.270515	= Cubic Inch
	× 2.6417	= Gallon Liquid US
	× 10.	= Liter
	× 1.13513	= Peck
	× 18.1620	= Pint Dry
	× 9.08102	= Quart Dry
Decameter (dkm)	× 1.0	= Dekameter
	× 32.808	= Feet

Decameter (dkm)	× 393.70113	= Inch
	× 10.	= Meter
	× .006	= Mile
	× 1.9884	= Rod
	× 10.9361114	= Yard
Decastere	× 10.	= Cubic Meter
	× 1.0	= Dekastere
Deci	= .1 = 10^{-1}	= One-Tenth
Decibel (db)	= .1	= Bel (See Noise)
Decigram (dg)	× 10.	= Centigram
	× 1.54324	= Grain
	× .1	= Gram
	× .0031104	= Ounce Troy
Deciliter (dl)	× 10.	= Centiliter
	× .1000027	= Cubic Decimeter
	× 6.1025	= Cubic Inch
	× .845	= Gill Liquid
	× .1	= Liter
	× 3.38147	= Ounce Fluid US
	× .176	= Pint
Decimeter (dm)	× .3280833	= Feet
	× 3.9370113	= Inch
	× .1	= Meter
	× .109361114	= Yard
Decistere	× .1	= Cubic Meter
	× .1	= Stere
Degree	× .00278	= Circle
	× .002778	= Circumference
	× 1.11111	= Grade
	× 60.	= Minute
	× .01111	= Quadrant
	× .017453292	= Radian
	× .002778	= Revolution
	× 3600.	= Second
Degree-Day: (T = Mean Temperature for the Day)	= 65 - T	= Degree-Day
	× .096	= Cuft Gas/Sqft Boiler
	× .0007	= Gal Fuel Oil/Sqft Boiler
	× .008	= Lb Coal/Sqft Boiler
Degree in Arc × Radius	× .017453292	= Length of Arc
Degree Longitude	× 4.0	= Minute of Time
Degree/Second	× .01745	= Radian/Second
	× .1667	= Revolution/Minute
	× .002778	= Revolution/Second
Denier	× 5.0	= Centigram
	× .028	= Dram Avoir
(Nylon: Rayon: Silk: Vinyon)	× 9000.	= Meter/Gram
	= .05 gm	= 450 Meter
Denier/450 Meter	× .0573	= Dram/Kilo-Yard
Density:	× Centistoke	= Centipoise
	× Sp Volume	= 1.0
	× Unit Volume	= Mass or Weight
	× 62.4	= Pound/Cubic Foot
	× 1.0	= Specific Weight
	× 1.0	= Spg (In Metric System)
Gas: Gram Wgt/Liter	× 22.4	= Gram-Molecular Weight
Pound Wgt/Cuft	× 22.4	= Pound-Molecular Weight
Lb Mass/Cuft×Specific Volume (Cuft/lb Mass)		= 1.0
Of a Body in Gram/Milliliter = Specific Gravity of Body (Unity = Water @ 4C)		
Pound/Cubic Foot	× Cubic Foot	= Pound-Mass
Pound-Force	× 32.174	= Pound/Cuft Density
× Foot Fourth Power	= Pound-Force	× Second Squared
× Kinematic Viscosity Sqft/Sec = Abs Viscosity Lb-Force-Sec/Sqft		
Pound-Mass × Kinematic Viscosity Sqft/Sec = Abs Viscosity Lb-Force-Sec/Sqft		
Denver Heating Load	= 5880.	= Degree-Day
Dessatine	× 10.925	= Square Meter
	× 2400.	= Square Sashen

D — CONVERSION FACTORS

Diesel Fuel: Pound		× 19500.	= Btu (Common)
Digging: Hand: Ditch:	Cubic Yard	× 3.2	= Man-Hr(Average Soil)
		× 5.0	= Man-Hr(Hard Pan)
		× 4.2	= Man-Hr (Hvy Soil or Clay)
		× 1.8	= Man-Hr (Loam or Sand)
General Work:	Cubic Yard	× 1.2	= Man-Hr (Dry Average Soil)
		× 2.2	= Man-Hr (Dry Clay)
		× 2.5	= Man-Hr (Dry Hard Pan)
		× .9	= Man-Hr (Dry Loam or Sand)
		× 2.5	= Man-Hr (Wet Average Soil)
		× 3.3	= Man-Hr (Wet Clay)
		× 4.0	= Man-Hr (Wet Hard Pan)
		× 1.2	= Man-Hr (Wet Loam or Sand)
Pits:	Cubic Yard	× 3.4	= Man-Hr (Average Soil)
		× 5.3	= Man-Hr (Hard Pan)
		× 4.4	= Man-Hr (Hvy Soil or Clay)
		× 2.0	= Man-Hr (Loam or Sand)
Dilution of Solution: Vol Solute × % Solute = (Water to Add + Vol Solute) × % Final Solution			
cc Solute × % Solute = cc Solvent × % Final Solution			
Dime (10 Cent Piece)		= 2.5	= Gram
Dishwasher (Home):		= 600.	= Watt Avg Use
Disintegration/Second		× .10/o27216	= Curie
Displacement		× Time	= Velocity
In Feet		× Second	= Feet/Second
Dodecagon: Short Radius Squared		× 3.21539	= Area
Width of Side Squared		× 11.196152	= Area
Dodecahedron: Side Squared		× 20.6457	= Total Area
Side Cubed		× 7.6631	= Volume
Dome: Hemispherical: Diameter Squared		× 1.5708	= Area
Dozen		= .08333	= Reciprocal
		× 12.	= Units
Dram Apothecaries		× 1.	= Drachm Liquid
		× 1.	= Drachma Liquid
		× 2.19429	= Dram Avoir
		× 60.	= Grain
		× 3.8879351	= Gram
		× 3.697	= Milliliter
		× 60.	= Minim
		× .125	= Ounce Apoth-Troy
		× .0078125	= Pint Liquid US
		× .0104167	= Pound Apoth-Troy
		× 3.	= Scruple Apoth
Dram Avoirdupois		× .455729	= Dram Apoth
		× 27.34375	= Grain
		× 1.771845	= Gram
		× .0625	= Ounce Avoir
		× .003906	= Pound Avoir
Dram Fluid		× 1.0	= Dram Apothecaries
Dram/Kilo-Yard		× 17.44	= Denier/450 Meter
Drill Mud: Lb/cuft × Pipe Wgt Lb/Ft		× .002	= Bouyancy Factor
Drill Pipe: Pound/Foot		× .06 to .13	= Pound/Foot (In Fluid)
Duct: Convey Air: Speed to Move		= 4000.	= fpm Fine Coal-Brass Turnings
		= 2000.	= fpm Grain Dust-Saw Dust
		= 2000.	= fpm Jute Dust-Rubber Dust
		= 5000.	= fpm Lead Dust
		= 1500.	= fpm Lint
		= 2200.	= fpm Metal Dust-Grindings
		= 3000.	= fpm Wood Chip-Shavings
Duct: Round: Air: $(°K \times .00366)^{1.75}$		× 277/d″	= fpm Critical Velocity
Dyne		× 1.	= Force Unit
		× .001019716	= Gram-Force
		× .6/o1	= Joule/Centimeter
		× .4/o1	= Joule/Meter
		× .5/o1019716	= Kilogram-Force
		× .4/o1	= Newton
		× .4/o7233	= Poundal

Dyne

Dyne-Centimeter

Dyne-Centimeter/

Dyne/Cubic Centi

Dyne-Second/Squ

Dyne-Second/Squar

Dyne	× .5/o2248089	= Pound-Force
	× .7/o1	= Sthene
	× Second Squared	= Gram-Mass-Centimeter
Dyne-Centimeter	× 1.	= Erg
	× .00109716	= Gram-Centimeter
	× .6/o885073	= Inch-Pound
	× .7/o1019716	= Kilogram-Meter
	× .6/o1	= Newton-Meter
	× .7/o737557	= Pound-Foot
	× 1.	= Erg/Square Centimeter
	× .001019716	= Gram/Centimeter
	× .0001837186	= Poundal/Inch
Dyne-Centimeter/Second	× .6/o1	= Joule/Second
	× .6/o1	= Watt
Dyne/Cubic Centimeter	× .001019716	= Gram/Cubic Centimeter
	× .00118528	= Poundal/Cubic Inch
Dyne-Second/Square Centimeter	× 100.	= Centipoise
	× 10000.	= Dyne-Second/Sq Meter
	× 6.45	= Dyne-Second/Sq Inch
	× 929.03	= Dyne-Second/Sq Foot
	× 1.	= Gram-Mass/Centimeter-Second
	× 60.	= Gram-Mass/Centimeter-Minute
	× 3600.	= Gram-Mass/Centimeter-Hour
	× .010194	= Kilogram-Force-Second/Sq Meter
	× .001	= Kilogram-Mass/Centimeter-Second
	× .1	= Kilogram-Mass/Meter-Second
	× 6.	= Kilogram-Mass/Meter-Minute
	× 360.	= Kilogram-Mass/Meter-Hour
	× 1.	= Poise
	× .002247	= Pound-Force-Second/Sq Meter
	× .4/o145	= Pound-Force-Second/Sq Inch
	× .00209	= Pound-Force-Second/Sq Foot
	× .6/o242	= Pound-Force-Minute/Sq Inch
	× .4/o348	= Pound-Force-Minute/Sq Foot
	× .4/o2204	= Pound-Mass/Centimeter-Second
	× .0056	= Pound-Mass/Inch-Second
	× .0672043	= Pound-Mass/Foot-Second
	× .001322	= Pound-Mass/Centimeter-Minute
	× .336	= Pound-Mass/Inch-Minute
	× 4.032	= Pound-Mass/Feet-Minute
	× .007837	= Pound-Mass/Centimeter-Hour
	× 20.16	= Pound-Mass/Inch-Hour
	× 241.93548	= Pound-Mass/Foot-Hour
	× .4/o2204	= Poundal-Second/Sq Centimeter
	× .0056	= Poundal-Second/Sq Inch
	× .0672043	= Poundal-Second/Sq Foot
	× .001322	= Poundal-Minute/Sq Centimeter
	× .336	= Poundal-Minute/Sq Inch
	× 4.032	= Poundal-Minute/Sq Foot
	× .007837	= Poundal-Hour/Sq Centimeter
	× 20.16	= Poundal-Hour/Sq Inch
	× 241.93548	= Poundal-Hour/Sq Foot
	× Rhe	= 1.0
Dyne-Second/Square Foot	× .107	= Centipoise
	× .00107	= Dyne-Second/Sq Centimeter
	× 10.7	= Dyne-Second/Sq Meter
	× .00695	= Dyne-Second/Sq Inch
	× .00107	= Gram-Mass/Centimeter-Second
	× .0646	= Gram-Mass/Centimeter-Minute
	× 3.87	= Gram-Mass/Centimeter-Hour
	× .5/o107	= Kilogram-Mass/Centimeter-Second
	× .000107	= Kilogram-Mass/Meter-Second
	× .00646	= Kilogram-Mass/Meter-Minute
	× .387	= Kilogram-Mass/Meter-Hour
	× .4/o109	= Kilogram-Force-Second/Sq Meter
	× .00107	= Poise

CONVERSION FACTORS

Dyne-Second/Square Foot	× .4/o242	= Pound-Force-Second/Sq Meter
	× .7/o156	= Pound-Force-Second/Sq Inch
	× .5/o225	= Pound-Force-Second/Sq Foot
	× .9/o26	= Pound-Force-Minute/Sq Inch
	× .7/o374	= Pound-Force-Minute/Sq Foot
	× .7/o238	= Pound-Mass/Centimeter-Second
	× .5/o603	= Pound-Mass/Inch-Second
	× .4/o724	= Pound-Mass/Foot-Second
	× .5/o142	= Pound-Mass/Centimeter-Minute
	× .000362	= Pound-Mass/Inch-Minute
	× .00434	= Pound-Mass/Foot-Minute
	× .5/o843	= Pound-Mass/Centimeter-Hour
	× .0217	= Pound-Mass/Inch-Hour
	× .26	= Pound-Mass/Foot-Hour
	× .7/o238	= Poundal-Second/Sq Centimeter
	× .5/o603	= Poundal-Second/Sq Inch
	× .4/o724	= Poundal-Second/Sq Foot
	× .5/o142	= Poundal-Minute/Sq Centimeter
	× .000362	.= Poundal-Minute/Sq Inch
	× .00434	= Poundal-Minute/Sq Foot
	× .5/o843	= Poundal-Hour/Sq Centimeter
	× .0217	= Poundal-Hour/Sq Inch
	× .26	= Poundal-Hour/Sq Foot
Dyne-Second/Square Inch	× 15.5	= Centipoise
	× .155	= Dyne-Second/Sq Centimeter
	× 1550.	= Dyne-Second/Sq Meter
	× 142.5	= Dyne-Second/Sq Foot
	× .155	= Gram-Mass/Centimeter-Second
	× 9.3	= Gram-Mass/Centimeter-Minute
	× 559.	= Gram-Mass/Centimeter-Hour
	× .3/o155	= Kilogram-Mass/Centimeter-Second
	× .0155	= Kilogram-Mass/Meter-Second
	× .93	= Kilogram-Mass/Meter-Minute
	× 55.9	= Kilogram-Mass/Meter-Hour
	× .00158	= Kilogram-Force-Second/Sq Meter
	× .155	= Poise
	× .00349	= Pound-Force-Second/Sq Meter
	× .5/o225	= Pound-Force-Second/Sq Inch
	× .000324	= Pound-Force-Second/Sq Foot
	× .7/o375	= Pound-Force-Second/Sq Inch
	× .5/o54	= Pound-Force-Minute/Sq Foot
	× .5/o342	= Pound-Mass/Centimeter-Second
	× .3/o869	= Pound-Mass/Inch-Second
	× .0104	= Pound-Mass/Foot-Second
	× .000205	= Pound-Mass/Centimeter-Minute
	× .052	= Pound-Mass/Inch-Minute
	× .625	= Pound-Mass/Foot-Minute
	× .00121	= Pound-Mass/Centimeter-Hour
	× 3.12	= Pound-Mass/Inch-Hour
	× 37.5	= Pound-Mass/Foot-Hour
	× .5/o342	= Poundal-Second/Sq Centimeter
	× .3/o869	= Poundal-Second/Sq Inch
	× .0104	= Poundal-Second/Sq Foot
	× .000205	= Poundal-Minute/Sq Centimeter
	× .052	= Poundal-Minute/Sq Inch
	× .625	= Poundal-Minute/Sq Foot
	× .00121	= Poundal-Hour/Sq Centimeter
	× 3.12	= Poundal-Hour/Sq Inch
	× 37.5	= Poundal-Hour/Sq Foot
Dyne-Second/Square Meter	× .01	= Centipoise
	× .0001	= Dyne-Second/Sq Centimeter
	× .3/o645	= Dyne-Second/Sq Inch
	× .0929	= Dyne-Second/Sq Foot
	× .0001	= Gram-Mass/Centimeter-Second
	× .006	= Gram-Mass/Centimeter-Minute
	× .36	= Gram-Mass/Centimeter-Hour

Dyne-Second/Square Meter	× .6/o1	=Kilogram-Mass/Centimeter-Second
	× .4/o1	= Kilogram-Mass/Meter-Second
	× .0006	= Kilogram-Mass/Meter-Minute
	× .036	= Kilogram-Mass/Meter-Hour
	× .5/o1019	= Kilogram-Force-Second/Sq Meter
	× .0001	= Poise
	× .5/o2247	= Pound-Force-Second/Sq Meter
	× .8/o145	= Pound-Force-Second/Sq Inch
	× .6/o209	= Pound-Force-Second/Sq Foot
	× .10/o242	= Pound-Force-Minute/Sq Inch
	× .8/o348	= Pound-Force-Minute/Sq Foot
	× .8/o2204	= Pound-Mass/Centimeter-Second
	× .6/o56	= Pound-Mass/Inch-Second
	× .5/o672	= Pound-Mass/Foot-Second
	× .6/o1322	= Pound-Mass/Centimeter-Minute
	× .4/o336	= Pound-Mass/Inch-Minute
	× .3/o4032	= Pound-Mass/Foot-Minute
	× .6/o7837	= Pound-Mass/Centimeter-Hour
	× .002016	= Pound-Mass/Inch-Hour
	× .02419	= Pound-Mass/Foot-Hour
	× .8/o2204	= Poundal-Second/Sq Centimeter
	× .6/o56	= Poundal-Second/Sq Inch
	× .5/o672	= Poundal-Second/Sq Foot
	× .6/o132	= Poundal-Minute/Sq Centimeter
	× .5/o336	= Poundal-Minute/Sq Inch
	× .3/o403	= Poundal-Minute/Sq Foot
	× .6/o78	= Poundal-Hour/Sq Centimeter
	× .002016	= Poundal-Hour/Sq Inch
	× .02419	= Poundal-Hour/Sq Foot
Dyne/Square Centimeter	× .6/o986923	= Atmosphere 76cm 32F
	× .5/o1	= Bar
	× 1.0	= Barye
	× .4/o7500615	= Centimeter Mercury 32F
	× .001019716	= Gram/Square Centimeter
	× .4/o2953	= Inch Mercury 32F
	× .0004015	= Inch Water 4C
	× .01019716	= Kilogram/Square Meter
	× .0001	= Kilopascal
	× .1	= Newton
	× .000232061	= Ounce Avoir/Square Inch
	× .002089	= Pound/Square Foot
	× .4/o145038	= Pound/Square Inch
	× .000466642	= Poundal/Square Inch
	× .5/o1044	= Ton Short/Square Foot

Dysprosium: (Dy):#66:162.46: AW: _____

E

Eagle	× 10.	= Dollar US
Earth: Average Natural Slope	= 28.	= Degree
Common Dry: Cubic Foot	× 72 to 80	= Pound
Square Foot	× 1. to 1.5	= Ton (Support)
Common Wet: Cubic Foot	× 104 to 112	= Pound
Square Foot	× .25 to 1.	= Ton (Support)
Compact Natural Slope	= 50.	= Degree
EDR	× 1.0	= Equiv Direct Radiation
EDR Square Foot (Heating Surface)	× 240.	= Btu/Hr
Eight-Gram	= 1(8/o).	= Gram
Electric Circuit: Length in Feet	= .001	= Kilofeet
Electric Heating Apparatus	= 80%	= Efficiency
Electric Range: Home:	= 8, to 16000	= Watt Avg Use
Electromagnetism	= 4.	= Dimension Systems

Electromagnetism = 3 Fundamental Mechanics Dimensions + Electromagnetic

Electronic Charge	= .19/o16019	= Abcoulomb
	× .18/o16019	= Coulomb Absolute
	× .19/o160199	= EMU Absolute
	× .9/o480239	= ESU Absolute
	× .9/o480217	= Statcoulomb

CONVERSION FACTORS

Electroplating: Aluminum: Amp × Second	× .4/o939	= Gram Deposited at Cathode
Chromium: Amp × Second	× .0001796	= Gram Deposited at Cathode
Copper: Amp × Second	× .0003294	= Gram Deposited at Cathode
Gold: Amp × Second	× .0006812	= Gram Deposited at Cathode
Hydrogen: Amp × Second	× .4/o1045	= Gram Deposited at Cathode
Nickel: Amp × Second	× .000304	= Gram Deposited at Cathode
Oxygen: Amp × Second	× .4/o8291	= Gram Deposited at Cathode
Silver: Amp × Second	× .00118	= Gram Deposited at Cathode
Oz/Sqft/Mil Thickness	× 12.	= Spg of Metal
Electrostatic Unit	× .9/o333585	= Coulomb
	× 3(10/o).	= Electromagnetic Unit
Electron-Volt	= .11/o1602	= Erg
Electron-Volt Absolute	× .5/o160199	= Erg
Absolute/Molecule	× 23060.5	= Cal Thermo/Mole
	× 96485.3	= Joule Abs/Mole
Electron-Volt International	× .5/o160252	= Erg
International/Molecule	× 96501.2	= Joule Int/Mole
	× 23068.1	= Calorie Thermo/Mole
Elevator: Lbs Unbalanced Load × fpm	× .4/o6	= HP @ 50% Efficiency
Ell	× 114.30	= Centimeter
	× 45.	= Inch British
Ellipse: Long × Short Diameter	× .7854	= Area
Long × Short Radius	× 3.1416	= Area
Ellipsoid: Semiaxes A × B × C	× 4.18879	= Volume
Small Diam Squared × Large Diam	× .5231	= Volume
Small Rad Squared × Large Radius	× 4.18879	= Volume
Ells: Air Flow Resistance: 1-4"	= 3.7d"-1.7	= Equiv Feet Straight Pipe
5-8"	= 4d"	= Equiv Feet Straight Pipe
Water Flow Resistance: 1-2"	= d" +6.	= Equiv Feet Straight Pipe
3-6"	= d" +12.	= Equiv Feet Straight Pipe
Emissivity (Radiation Factor 0-200C)	× .90	= Asbestos Paper
	= .55	= Aluminum Paint
	= .90	= Black Gloss Paint
	= .80	= Bronze Paint
	= .95	= Green or Gray Paint
	= .95	= Lampblack
	= .25	= Machined Cast Iron
	= .43	= Oxidized Monel
	= .70	= Oxidized Steel or Cu
	= .60	= Polished Brass
	= .025	= Polished Mirror Surface
Em Pica	× .42333	= Centimeter
	× .1666	= Inch
EMU	× 299774(5/o).	= ESU
	× 1.0	= Electramagnetic Unit
Equivalent Direct Radiation	= 1.0	= EDR
Erbium: (Er)#68:167.2 AW:		
Erg	× .10/o947988	= Btu
	× 1.	= Dyne-Centimeter
	× 1.0	= Energy Unit cgs
	× .3/o51632	= Foot-Grain
	× .7/o737557	= Foot-Pound
	× .5/o237303	= Foot-Poundal
	× .7/o23888	= Gram-Calorie
	× .001019716	= Gram-Centimeter
	× .13/o3722	= Horsepower US-Hour
	× .6/o1	= Joule
	× .10/o23888	= Kilogram-Calorie
	× .7/o10197	= Kilogram-Meter
	× .13/o2778	= Kilowatt-Hour
	× 671.	= Mass Unit
	× 624000.	= Mev
	× .10/o2778	= Watt-Hour
	× .6/o1	= Watt-Second
Erg Absorbed/Gram of Tissue or Water	× .0119	= Rep
Erg/Second	× .8/o5692	= Btu/Minute

Erg/Second	× 1.0	= Dyne-Centimeter/Second
	× .5/o4426	= Foot-Pound/Minute
	× .7/o7376	= Foot-Pound/Second
	× .9/o1360	= Horsepower Metric
	× .9/o134102	= Horsepower US
	× .8/o434	= Kilogram-Calorie/Minute
	× .9/o1	= Kilowatt
	× 1.0	= Power Unit
	× .6/o1	= Watt
ESU (Charge)	× 1.	= Electrostatic Unit
	× 1.	= Statcoulomb
Ethane Gas (60F-30"Hg).	= 1.0493	= Specific Gravity (Air = 1)
Cubic Feet	× 1771.	= Btu Gross Combustion Heat
	× 16.9	= Cuft Air for Combustion
	× .08034	= Pound
Cuft Mixed Air-Gas	× 98.77	= Btu Gross Combustion Heat
Flame Temperature	= 3670.	= Degree F. Maximum
Pound	× 22304.	= Btu Gross Combustion Heat
	× 12.45	= Cubic Feet
	× 16.131	= Pound Air for Combustion
Ethylene Gas (60F-30"Hg).	= .9684	= Specific Gravity (Air = 1)
Cubic Feet	× 1560.	= Btu Gross Combustion Heat
	× 14.5	= Cuft Air for Combustion
	× .07464	= Pound
Cuft Mixed Air-Gas	× 102.89	= Btu Gross Combustion Heat
Flame Temperature	= 3885.	= Degree F. Maximum
Pound	× 21625.	= Btu Gross Combustion Heat
	× 13.4	= Cubic Feet
	× 14.820	= Pound Air for Combustion
Europium: (Eu): #63:152.0 AW:		
Evaporation Unit: Pound Water 212F	× 970.4	= Btu
Expansion Coefficient/°F	× 1.8	= Expansion Coeff/°C
Cubical	× .333	= Linear Expansion
Linear	× 3.0	= Cubical Expansion

Exponents:								
Rule 1:	$(XYZ)^n$	=	$X^nY^nZ^n$	$(2\times3\times4)^2$	=	$2^2 3^2 4^2$	= $4\times9\times16$	= 576
2:	X^m/X^n	=	X^{m-n}	$5^6/5^4$	=	5^{6-4}	= 5^2	= 25
3:	$(X/Y)^n$	=	X^n/Y^n	$(4/5)^2$	=	$4^2/5^2$	= 16/25	= .64
4:	X^mX^n	=	X^{m+n}	$2^3 2^2$	=	2^{3+2}	= 2^5	= 32
5:	$(X^m)^n$	=	X^{mn}	$(2^3)^2$	=	$2^{3\times2}$	= 2^6	= 64
6:	X°	=	1	100°	=	1	8°	= 1
7:	X^{-n}	=	$1/X^n$	2^{-3}	=	$1/2^3$	= 1/8	= .125
				$4^{-3/2}$	=	$1/4^{3/2}$	= $1/\sqrt{4^3}$	= 1/8 = .125
8:	$X^{1/n}$	=	$\sqrt[n]{X}$	$9^{3/2}$	=	$9^{1+1/2}$	= $9\times9^{1/2}$ = $9\sqrt{9}$	9×3 = 27

F

Fahrenheit Degree	- 65.	= Degree Day
	+ 459.69	= Degree Fahrenheit Absolute
	+ 459.69	= Rankine Degree
Minus 32	× .555	= Centigrade Degree
Minus 32 × .555	+ 273.16	= Kelvin Degree
Fahrenheit Degree × Lb-Force × SpHt Btu/Lb-°F.	× Sec. Squared	= Btu × Foot
× SpHt Btu/Lb-°F	× Pound Mass	= Btu
Fahrenheit Degree/Btu/Hour/Square Foot	× 1761.	= Thermal Ohm/Sq Centimeter
Famm	× 3.	= Alnar
	× 6.	= Fot
	× 5.8445	= Foot US
	× 1.7814	= Meter
Fan: Built-in Ventilating:	= 100.	= Watt Avg Use
Cuft/Min × Inch Water Pressure	× .0001578	= HP (100% Efficiency)
Efficiency Range	= 50 to 80	= Percent Efficiency
Farad (C)	× .8/o1	= Abfarad
	× 1.	= Capacitance Unit
	× Volt	= Coulomb
	× .8/o1	= Electromagnetic Unit
	× 898776(6/o).	= Electrostatic Units
	× 1.0	= Farad Absolute

F CONVERSION FACTORS

Farad (C)	× 1.000495	= Farad International
	× 1(6/o).	= Microfarad
	× 8988(8/o).	= Statfarad
Farad Absolute	× 1.0	= Farad
Farad International	× .999505	= Farad Absolute
Faraday	× 9649.	= Abcoulomb
	× 26.80	= Ampere-Hour
	× 96494.	= Coulomb
	× 28926(10/o).	= Statcoulomb
Fathom British	× 6.080	= Feet
	× 1.8532	= Meter
	× .001	= Mile Nautical British
Fathom US	× .008333	= Cable Length
	× 6.	= Feet
	× 72.	= Inch
	× 1.828804	= Meter
	× 8.	= Span
	× 2.	= Yard
Feet Distance Doubled	× .25	= Count/Minute
Feet/Hour	× .01666	= Feet/Minute
	× .0002777	= Feet/Second
	× .0001894	= Mile/Hour
	× .5/o316	= Mile/Minute
Feet/Minute	× .5080	= Centimeter/Second
	× .01666	= Feet/Second
	× .18288	= Kilometer/Hour
	× .009868	= Knot
	× .3048	= Meter/Minute
	× .005080	= Meter/Second
	× .01136	= Mile/Hour
	× .0001894	= Mile/Minute
Feet/Minute × Pipe Diam Squared Inch	× .0408	= Gallon Water/Minute
× Pound Load	× .4/o30303	= HP to Hoist Vertical
Feet/Second (fps)	× 30.48	= Centimeter/Second
	× 3600.	= Feet/Hour
	× 60.	= Feet/Minute
	× 1.097	= Kilometer/Hour
	× .59209	= Knot
	× 18.29	= Meter/Minute
	× .3048	= Meter/Second
	× .68181818	= Mile/Hour
	× .011363636	= Mile/Minute
	× .00018939	= Mile/Second
Feet/Second × Pipe Diam Squared Inch	× 2.44798	= Gallon Water/Minute
× Pound Mass	× .0157	= Foot-Pound
Feet/Second/Second (fpss)	× 1.09728	= Kilometer/Hour/Second
	× .3048	= Meter/Second/Second
	× .68182	= Mile/Hour/Second
	× Slug	= Pound-Force
Ferric: Fe:	= +3	= Valence
Ferrous: Fe:	= +2	= Valence
Fiberbrick: Specific Heat	= .24	= Btu/Pound/°F
Fiberglass: Specific Heat	= .18	= Btu/Pound/°F
Fillet: Radius Squared	× .2146	= Area
Firkin	× 9.	= Gallon Liquid US
	× 34.06798	= Liter
	× 56.	= Pound Avoir Butter
Five-Gram	= 1(5/o).	= Gram
Floor Lamp (Home)	= 150 to 300	= Watt/Lamp
Flour: Barrel	× 196.	= Pound
Cup	× .25	= Pound
Fluorescent Light	= 15 to 40	= Watt/Lamp
Give 3 Time More Light than Incandescent. Tubes Last 7 Times Longer than Incandescent.		
Fluoride: F:	= −1	= Valence
Fluorine: (F): #9:19.00 AW:		

Foot Board Measure	× 1.0	= Board-Foot
Foot British	× 30.47997	= Centimeter
	× .9999971	= Foot US
	× .3047997	= Meter
Footcandle (ftc)	× 1.0	= Light Flux Density Unit
	× Sqft Area	= Lumen
	× 1.	= Lumen/Square Foot
	× 10.7639	= Lumen/Square Meter
	× 10.7639	= Lux
	× 1.076	= Milliphot
	× .001076	= Phot
Footcandle × Distance in Feet Squared		= Candlepower
Foot Fourth Power × Pound-Force Density		× Second Squared
Foot-Grain (ftgr)	= Pound-Force	
	× 1937.1	= Erg
	× .000142857	= Foot-Pound
	× 1.9757	= Gram-Centimeter
	× .00019371	= Joule
Foot-Grain/Second	× .0001937	= Watt
Footlambert (ftL)	× .0003425	= Candle/Square Centimeter
	× .3183	= Candle/Square Foot
	× .00221048	= Candle/Square Inch
	× .001076	= Lambert
	× Sqft Area	= Lumen
	× .0003425	= Lumen/Sqcm/Steradian
	× 1.076	= Millilambert
	× .000342	= Stilb
Foot-Pound	× .00128530	= Btu
	× .000323891	= Calorie Large
	× 13558200.	= Dyne-Centimeter
	× 13558200.	= Erg
	× 32.174	= Foot-Poundal
	× .323891	= Gram-Calorie
	× 13825.5	= Gram-Centimeter
	× .6/o51206	= Horsepower-Hour Metric
	× .6/o50505	= Horsepower-Hour US
	× .001840	= Horsepower Metric-Second
	× .00181818	= Horsepower US-Second
	× 12.	= Inch-Pound
	× 1.35582	= Joule Absolute
	× 1.3554	= Joule International
	× .0003238	= Kilocalorie
	× .000323891	= Kilogram-Calorie
	× .138255	= Kilogram-Meter
	× .6/o376617	= Kilowatt-Hour
	× .001356	= Kilowatt-Second
	× .000713986	= Lb-Chu
	× .01338	= Liter-Atmosphere
	× 908(7/o).	= Mass Unit
	× 848(10/o).	= Mev
	× .6/o3840	= Poncelet-Hour
	× .000713986	= Pound-Chu
	× .000376617	= Watt-Hour
	× 1.356	= Watt-Second
Foot-Pound × Number Power Cycles	× .4/o303	= Horsepower US
Foot-Poundal	× .4/o399484	= Btu
	× 421402.	= Dyne-Centimeter
	× 421402.	= Erg
	× .031081	= Foot-Pound
	× .0100669	= Gram-Calorie
	× 429.711	= Gram-Centimeter
	× .7/o156975	= Horsepower-Hour US
	× .0421402	= Joule
	× .7/o117056	= Kilowatt-Hour
Foot-Pound/Hour	× .001284	= Btu/Hour
	× .4/o2141	= Btu/Minute
	× .6/o357	= Btu/Second

F CONVERSION FACTORS

Foot-Pound/Hour	× .01666	= Foot-Pound/Minute
	× .0002777	= Foot-Pound/Second
	× .6/o505	= Horsepower
	× .6/o3766	= Kilowatt
Foot-Pound/Minute	× .077118	= Btu/Hour
	× .0012853	= Btu/Minute
	× .4/o2141	= Btu/Second
	× 225900.	= Erg/Second
	× .01666	= Foot-Pound/Second
	× .4/o3066	= Horsepower Metric
	× .4/o30303	= Horsepower US
	× .0003241	= Kilogram-Calorie/Minute
	× .4/o22597	= Kilowatt
	× .0113636	= Mile-Pound/Hour
	× .022597	= Watt
Foot-Pound/Second	× .07712	= Btu/Minute
	× .001285	= Btu/Second
	× 13558200.	= Erg/Second
	× .3237	= Gram-Calorie/Second
	× 13825.5	= Gram-Centimeter/Second
	× .001843	= Horsepower Metric
	× .00181818	= Horsepower US
	× 1.356	= Joule
	× .01943	= Kilogram-Calorie/Minute
	× .0003237	= Kilogram-Calorie/Second
	× 8.29	= Kilogram-Meter/Minute
	× .138255	= Kilogram-Meter/Second
	× .00135582	= Kilowatt
	× 929.047	= Poise US
	× .00138255	= Poncelet
	× 1.35582	= Watt
Foot/Second Squared	× Pound-Mass	= Pound-Force
Foot Squared/Hour	× 1.0	= Diffusion Coefficient
	× 1.0	= Eddy Diffusivity Unit
	× 1.0	= Eddy Kinematic Viscosity Unit
Foot US	× 30.48006096	= Centimeter
	× .01515	= Chain Gunter
	× 3.048	= Decimeter
	× .16666	= Fathom US
	× 1.0000029	= Foot British
	× 12.	= Inch
	× .001	= Kilofoot
	× .0003048006	= Kilometer
	× 1.5	= Link
	× .3048006096	= Meter
	× 304801.	= Micron
	× 12000.	= Mil
	× .000164468	= Mile Nautical US
	× .000189394	= Mile Statute US
	× 304.801	= Millimeter
	× 3048(5/o).	= Millimicron
	× .060606	= Rod
	× .3600	= Vara
	× .3333	= Yard
Forms: Plain Concrete:	= 2.	= BF/Sqft Contact Area
Footing	= .03	= Carpenter-Hour/Sqft
	= .02	= Helper-Hour/Sqft
Pier	= .06	= Carpenter/Hour/Sqft
Pier or Wall	= .03	= Helper-Hour/Sqft
Slab	= .075	= Carpenter-Hour/Sqft
	= .03	= Helper-Hour/Sqft
Step or Lintel	= .09	= Carpenter-Hour/Sqft
	= .035	= Helper-Hour/Sqft
Wall	= .045	= Carpenter-Hour/Sqft
Reinf Concrete: Beam or Column	= .04	= Helper-Hour/Sqft
Drop Panel	= .09	= Carpenter-Hour/Sqft

Forms: Reinf Concrete: Drop Panel	= .06	= Helper-Hour/Sqft
Head or Stair	= .06	= Helper-Hour/Sqft
Slab	= .03	= Helper-Hour/Sqft
Slab or Beam	= .08	= Carpenter-Hour/Sqft
Stair or Head	= .115	= Carpenter-Hour/Sqft
Wall	= .05	= Helper-Hour/Sqft
Wall or Column	= .085	= Carpenter-Hour/Sqft
Stripping Plain Concrete:	= .03	= Laborer-Hour/Sqft
Stripping Reinforced Concrete:	= .035	= Laborer-Hour/Sqft
Fot	× .97408	= Foot US
	× 100.	= Lines
	× .2969	= Meter
	× 10.	= Turn
Four-Gram	= 10000.	= Gram
Foute	× 1.0	= Foot US
Freezer: Home:	= 350	= Watt Avg Use
Freezing Point	= 0.0	= Degree Centigrade
	= 32.0	= Degree Fahrenheit
	= 0.0	= Degree Reamur
French Degree: Gallon US	× .583	= Grain Calcium Carbonate
	× 1.	= Parts Cal. Carb/100000
Friction Coefficient: Static	= .27	= Leather Belt/Oak Drum-Dry
	= .61	= Steel/Aluminum-Dry
	= .51	= Steel/Brass-Dry
	= .95	= Steel/Lead-Dry
	= .5	= Steel/Lead-Greasy
	= .75	= Steel/Steel-Dry
	= .27	= Steel/Steel-Oxide Film
	= .11	= Steel/Steel-Greasy
Static 5 mph	= .58	= Tire/Pavement-Wet
Static 30 mph	= .42	= Tire/Pavement-Wet
Sliding	= .52	= Leather/Oak-Dry
	= .56	= Leather/Steel-Dry
	= .48	= Oak/Oak-Dry
	= .47	= Steel/Aluminum-Dry
	= .44	= Steel/Brass-Dry
	= .95	= Steel/Lead-Dry
	= .3	= Steel/Lead-Greasy
	= .42	= Steel/Steel-Dry
	= .084	= Steel/Steel-Greasy
	= .36 to .52	= Tire/Pavement-Wet
Fuel Oil #2 or #3: Gallon	× 130000.	= Btu (Average)
Pound	× 18630.	= Btu (Heat Value)
Funt	× 9216.	= Doli
	× 409.512	= Gram
	× 32.	= Loth
	× .9028	= Pound Avoir US
	× 96.	= Solotnik
Furlong	× 6.6	= Chain Engineer
	× 10.	= Chain Gunter
	× 660.	= Feet
	× 201.168	= Meter
	× .125	= Mile Statute US
	× 40.	= Perch-Pole-Rod
	× 220.	= Yard
Fuss	× .9842	= Foot US
	× .300	= Meter

G

Gadolinium: (Gd): #64:156.9 AW:

Gage Pressure	+ Atmos Press	= Absolute Pressure
Inch Mercury	× 70.7256	= Pound/Sq Foot
	× .49115	= Pound/Sq Inch
× .491	+ 2116.3536	= Pound/Sq Foot Absolute
× .491	+ 14.6969	= Pound/Sq Inch Absolute
(Vacuum) Pressure	- Atmos Press	= Absolute Pressure

Gallium: (Ga): #31:69.72 AW:

CONVERSION FACTORS

Gallon British-Imperial Liquid	× .125	= Bushel Dry British
	× 4546.	= Cubic Centimeter
	× 4.546	= Cubic Decimeter
	× .16046	= Cubic Foot
	× 277.420	= Cubic Inch British
	× 277.418	= Cubic Inch US
	× 277.274	= Cubic Inch Water 62F
	× .0045	= Cubic Meter
	× 1.03202	= Gallon Dry US
	× 1.200955	= Gallon Liquid US
	× 32.	= Gill British
	× .0892	= Hundredweight
	× 4.54596	= Kilogram
	× 4.54596	= Liter
	× .5	= Peck British
	× 8.	= Pint British
	× 10.	= Pound Water 62F
	× 4.	= Quart British
	× .0045	= Ton
Gallon Dry US	× .125	= Bushel US Struck
	× 4404.92	= Cubic Centimeter
	× .155555	= Cubic Foot
	× 268.803	= Cubic Inch
	× .005761	= Cubic Yard
	× 1.1636501	= Gallon Liquid US
	× 4.4049	= Liter
	× .05	= Peck
	× 8.	= Pint
	× 4.	= Quart Dry US
	× 4.65460	= Quart Liquid US
Gallon Liquid US (gal)	× .5/o30688832	= Acre-Foot Water
	× .031746	= Barrel (31.5)
	× .0238095	= Barrel (42)
	× .10742	= Bushel US Struck
	× 3785.434	= Cubic Centimeter
	× 3.785434	= Cubic Decimeter
	× .133680555	= Cubic Foot
	× 231.	= Cubic Inch Water 62F
	× .003785434	= Cubic Meter
	× .004951	= Cubic Yard
	× .3785	= Decaliter
	× .8593649	= Gallon Dry US
	× .8326735	= Gallon Liquid British
	× 32.	= Gill US
	× 3778.92387	= Gram Water 62F
	× .03785	= Hectoliter
	× .0746	= Hundredweight
	× 3.785	= Liter
	× 3785.434	= Milliliter
	× 128.	= Ounce Fluid US Apoth.
	× 8.	= Pint Liquid US
	× 8.3311	= Pound Water 62F
	× 3.43747	= Quart Dry US
	× 4.	= Quart Liquid US
	× .0037254	= Ton Long Water 39.1F
	× .0037192	= Ton Long Water 62F
	× .00416555	= Ton Short Water 62F
Gallon Liquid US/Day	× .5/o15472286	= Cubic Feet/Second
Gallon Liquid US/Hour	× .1337	= Cubic Feet/Hour
	× .002228	= Cubic Feet/Minute
	× .4/o371	= Cubic Feet/Second
	× .01666	= Gallon US/Minute
	× .0002777	= Gallon US/Second
Gallon Liquid US/Minute (gpm)	× 34.28568	= Barrel (42)/Day
	× 1.42857	= Barrel (42)/Hour
	× .0238095	= Barrel (42)/Minute

Gallon Liquid US/Mi

Gallon Liquid US/Sec

Gallon Million/Day

Gallon/Minute × Head
Gallon/Minute/Day
Gamma

Garbage Disposer (Hom
Gas: Compressed:#/Hr
Gas: Constant: (R)

Universal

Gas: Density: Lb/Cuft ×
Gas: Formulae: New Abs
Old Abso
New Den
Old Dens
New Abs
Old Abso
New Volu
Old Volur
pv = RT
Gas: Gram-Mole (32F:29
Gram Weight/Liter
Molecular Weight
Pound-Mol (32F:14.
Specific Gravity
Vapor Density
Gas: Manufactured: Cubic

Gasoline (60 API): Barrel
Ton M
Gasoline: Cubic Foot
Gallon

Pound

Gauss

Gallon Liquid US/Minute (gpm)	× 192.499992	= Cubic Feet/Day
	× 8.02	= Cubic Feet/Hour
	× .13368055	= Cubic Feet/Minute
	× .002228	Cubic Feet/Second
	× 1440.	= Gallon/Day
	× 60.	= Gallon/Hour
	× .01666	= Gallon/Second
	× .002228	= Second-Foot
	× 5.355648	= Ton Long Water 62F/Day
	× 5.998392	= Ton Short Water 62F/Day
× 24.51		= Diam. Inch Squared × Ft/Min (Pipe-Water)
× .4085		= Diam. Inch Squared × Ft/Sec (Pipe-Water)
× Sq Root of	(.4085/fps)	= Inch Pipe Diam.
× Ft Head	× .0002525	= HP US (100% Pump Eff)
	× .000297	= HP US (85% Pump Eff)
	× .0003885	= HP US (65% Pump Eff)
	× .000505	= HP US (50% Pump Eff)
Gallon Liquid US/Second (gps)	× 481.	= Cubic Feet/Hour
	× 8.02	= Cubic Feet/Minute
	× .1337	= Cubic Feet/Second
	× 60.	= Gallon US/Minute
Gallon Million/Day	× 133680.55	= Cubic Foot/Day
	× 92.88	= Cubic Foot/Minute
	× 1.548	= Cubic Foot/Second
	× 694.44	= Gallon/US/Minute
	× 11.57	= Gallon US/Second
Gallon/Minute × Head in Feet	× .0003885	= Horsepower US
Gallon/Minute/Day	× .0042	= Acre-Foot
Gamma	× 1.0	= Microgram
	× .001	= Milligram
Garbage Disposer (Home):	= 600	= Watt (Avg Use)
Gas: Compressed:#/Hr × BTU/# Enthalpy Change	× .0004625	= HP Input (85% Eff)
Gas: Constant: (R)	= 1.9872	= Calorie/°K
	= 82.06	= co-Atmos/gm-mole-°K
	= 10.7	= cuft-Lb/sq in/Lb-Mole-°R
	= 2780.	= Ft-Lb-Force/Lb-Mole-°K
	= 1545.	= Ft-Lb-Force/Lb-Mole-°R
	= 1.99	= gm-calorie/gm-mole-°K
Universal	= 1545.	= Foot-Pound/°R (Mole)
	= 847.2	= Kilogram-Meter
Gas: Density: Lb/Cuft × °K	× 1.315	= Molecular Wgt × Press. In Atmos

Gas: Formulae:
- New Absolute Temperature = T = Pt/p = Vt/v = PVt/pv = wtPV/Wpv
- Old Absolute Temperature = t = pT/P = vT/V = vpT/PV = WTpv/wPV
- New Density = W = wt/T = wtPV/Tpv
- Old Density = w = WT/t = WTvp/tPV
- New Absolute Pressure = P = pv/V = pT/t = vpT/Vt = WTpv/wtV
- Old Absolute Pressure = p = PV/v = Pt/T = PVt/vT = wtPV/WTv
- New Volume = V = pv/P = vT/t = vpT/Pt = WTpv/wtP
- Old Volume = v = PV/p = Vt/T = PVt/pT = wtPV/WTp
- pv = RT (psf abs × cuft/# = R × °Rankine)

Gas: Gram-Mole (32F:29.92"Hg)	× 22412.	= Cubic Centimeter
Gram Weight/Liter	× 22.4	= Gram-Molecular Wgt
Molecular Weight	× .5	= Vapor Density
Pound-Mol (32F:14.7 psi)	× 359.	= Cubic Foot
Specific Gravity	× 28.9	= Gram-Molecular Wgt
Vapor Density	× 2.	= Gram-Molecular Wgt
Gas: Manufactured: Cubic Foot	× 500.	= Btu (Average)
	× .042	= Lb Anthracite Heat Value
Gasoline (60 API): Barrel (42)	× 255.367	= Pound (Avg.)
Ton Metric	× 8.6	= Barrel (42)—Avg.
Gasoline: Cubic Foot	× 45.52	= Pound (Avg.)
Gallon	× 122953.	= Btu (Heat Value)—Avg.
	× 6.05	= Pound (Avg.)
Pound	× 20379.	= Btu (Heat Value)—Avg.
	× 136.	= Btu (Heat of Vaporization) Avg.
Gauss	× 1.0	= Electromagnetic Unit

G — CONVERSION FACTORS

Gauss	× .9/o33	= Electrostatic Unit
	× 1.0	= Gauss Absolute
	× .99966	= Gauss International
	× 1.0	= Line/Square Centimeter
	× 6.45163	= Line/Square Inch
	× 1.	= Maxwell/Square Centimeter
	× 6.45163	= Maxwell/Square Inch
	× .10/o333585	= Magnetic Flux Density Unit
	× .10/o333585	= Statweber
	× .7/o1	= Volt-Second/Square Centimeter
	× .7/o1	= Weber/Square Centimeter
	× .7/o645163	= Weber/Square Inch
	× .0001	= Weber/Square Meter
Gauss International	× 1.00034	= Gauss Absolute
Gears: Meshed: Number Teeth of Driven	× Speed Ratio	= Number Teeth of Driver
rpm of Driver	× Speed Ratio	= rpm of Driven
Geepound	× 14.594	= Kilogram-Mass-Meter
	× 1.4881	= Kilogram-Slug
	× 1.0	= Pound/Foot/Second Squared
	× 32.1739	= Pound-Mass
	× 1.0	= Slug (Common)
	× 1.0	= Slug-Mass
Geiger Counter: Shielded with 2mm Lead	= (K-k)/k	= U (Use Below)
Metric Ton of Ore × U	× 25.	= Grams of Uranium
	× .875	= Ounces of Uranium
Number Clicks @ Ore Body	= K	k = Number Cosmic Ray Clicks
German Degree:	× 1.0	= Part Calcium Oxide/100000
Gallon Liquid US	× 1.044	= Grains Calcium Carbonate
Germanium: (Ge): #32:72.60 AW:		
German Silver: Cubic Foot	× 555.58	= Pound
Gilbert	× .07958	= Abampere-Turn
	× .7958	= Ampere-Turn
	× 1.00005	= Gilbert International
	× 1.0	= Magnetomotive Force Unit
	× .79577	= Number Turn × Ampere
Gilbert/Centimeter	× .07958	= Abampere-Turn/Centimeter
	× .7958	= Ampere-Turn/Centimeter
	× 2.0213	= Ampere-Turn/Inch
	× 79.58	= Ampere-Turn/Meter
	× 1.0	= Oersted
Gilbert International	× .99995	= Gilbert
Gill Liquid US	× 118.29	= Cubic Centimeter
	× .00418	= Cubic Feet
	× 7.21875	= Cubic Inch
	× 1.18292	= Deciliter
	× .02686	= Gallon Dry US
	× .03125	= Gallon Liquid US
	× .118292	= Liter
	× 118.292	= Milliliter
	× 4.	= Ounce Fluid
	× .25	= Pint Liquid US
	× .10742	= Quart Dry US
	× .125	= Quart Liquid US
Glass. Cubic Foot	× 150 to 187	= Pound
Specific Heat	= .19	= Btu/Pound/°F
Wool: Specific Heat	= .24	= Btu/Pound/°F
Globe: Circumference	× Diameter	= Surface Area
Diameter Squared	× 3.1416	= Surface Area
Radius Squared	× 12.5664	= Surface Area
Glycerine: Cubic Foot	× 78.	= Pound
Gallon	× 10.	= Pound
Gneiss Building Stone: Cubic Foot	× 168.	= Pound
Ton	× 11.9	= Cubic Feet
Gold: (Au):#79:197.2 AW: .0308 Split: 19.3 gm/cc:		
Cubic Foot	× 1206.09	= Pound at 68F
Linear Expansion: Inch	× 7.8	= Micro-Inch/Degree F.

Gold: Point
Grade .

Grain

Grain Calcium Carbo

Grain/Cubic Foot

Grain/1000 Cubic F

Grain/Gallon Liquid
Grain/Gallon Liquid

Grain Gold (Assay E
Grain/Inch

Grain Pearl
Gram (g)

Gold: Point	= 1336.	= Degree Kelvin
Grade	× .0025	= Circle
	× 9000.	= Degree
	× 54.	= Minute
	× .015708	= Radian
	× 3240.	= Second
Grain	× .01666	= Dram Apoth
	× .03657	= Dram Avoir
	× 63.5453	= Dyne
	× 1.0	= Grain Apothecaries
	× 1.0	= Grain Avoirdupois
	× 1.0	= Grain Troy
	× .064798918	= Gram
	× .4/o64798918	= Kilogram
	× 64.798918	= Milligram
	× .00228571	= Ounce Avoir
	× .00208333	= Ounce Apoth-Troy
	× .041667	= Pennyweight
	× .0001428571	= Pound Avoir
	× .0001736	= Pound Apoth-Troy
	× .05	= Scruple
	× .7/o7143	= Ton Short
	× .7/o6378	= Ton Long
	× .7/o6480	= Ton Metric
Grain Calcium Carbonate/US Gallon	× 1.20	= Clark Degree
	× 1.71	= French Degree
	× .958	= German Degree
Grain/Cubic Foot	× .4/o647989	= Milligram/Cubic Foot
	× .0023	= Milligram/Cubic Meter
Grain/1000 Cubic Feet	× .065	= Milligram/Cubic Foot
	× 2.3	= Milligram/Cubic Meter
Grain/Gallon Liquid British	× 14.254	= Part/Million
Grain/Gallon Liquid US	× .01714	= Gram/Liter
	× .0015	= Lb Soap to Precipitate Hardness
	× 1.7118	= Parts/100000
	× 17.118	= Parts/Million
	× 142.86	= Pounds/Million Gallons
Grain Gold (Assay Extracted)	× 1.0	= Ounce Troy/Ton of Ore
Grain/Inch	× .02551	= Gram/Centimeter
	× 2.5511	= Kilogram/Kilometer
	× .0025511	= Kilogram/Meter
	× .00171429	= Pound/Foot
	× .0001429	= Pound/Inch
	× 9.0514	= Pound/Mile
	× .00514286	= Pound/Yard
	× .004041	= Ton Long/Mile
	× .002551	= Ton Metric/Mile
	× .004526	= Ton Short/Mile
Grain Pearl	× .05	= Gram
Gram (g)	× 5.	= Carat
	× 3.858	= Carat Metric
	= 1.0	= cc Water 4C
	× 100.	= Centigram
	× .1	= Decagram
	× 10.	= Decigram
	× 20.	= Denier
	× .2572059	= Dram Apoth
	× .5643833	= Dram Avoir
	× 980.665	= Dyne
	× 15.432356	= Grain
	× .01	= Hectogram
	× .4/o9807	= Joule/Centimeter
	× .009807	= Joule/Meter
	× .001	= Kilogram
	× 1000.	= Milligram
	× .009807	= Newton

G — CONVERSION FACTORS

Gram (g)	× .0321507	= Ounce Apoth-Troy
	× .03527396	= Ounce Avoir
	× .00268	= Pound Apoth-Troy
	× .00220462	= Pound Avoir — 454 gm/lb
	× .0026792	= Pound Troy
	× .07093	= Poundal
	× .771618	= Scruple
	× .6/o984	= Ton Long
	× .5/o1	= Ton Metric
	× .5/o1102	= Ton Short
Gram-Calorie (g-cal) (cal)	× .00396832	= Btu
	× .0022	= Chu
	× 41860500.	= Erg
	× 3.08746	= Foot-Pound
	× 99.366	= Foot-Poundal
	× 42685.8	= Gram-Centimeter
	× .5/o155932	= Horsepower-Hour
	× 4.18605	= Joule (Heat Equivalent)
	× .001	= Kilogram-Calorie
	× .426858	= Kilogram-Meter
	× .5/o116279	= Kilowatt-Hour
	× .001	= Large Calorie
	× .04129	= Liter-Atmosphere
	× 281(8/o).	= Mass Unit
	× .999658	= Mean Calorie
	× 262(11/o).	= Mev
	× .00996	= Ostwald Calorie
	× .002204	= Pound-Calorie
	× 1.	= Small Calorie or Calorie
	× .00116279	= Watt-Hour
	× 4.18605	= Watt-Second
Gram-Calorie/Gram	× 1.8	= Btu/Pound
Gram-Calorie/Gram/°C	× 1.8	= Btu/Pound/°C
	× 1.0	= Btu/Pound/°F
	× 4.186	= Joule/Gram/°C
	× 1055.	= Joule/Pound/°F
	× 1.0	= Kg-Cal/Kg/°C
	× .001163	= Kw-Hr/Kg/°C
	× .000293	= Kw-Hr/Pound/°F
	× 1.0	= Specific Heat Unit
Gram-Calorie/Hr/Sqcm	× 88.48	= Btu/Day/Sqft
	× 3.687	= Btu/Hr/Sqft
	× .0002778	= Gram-Calorie/Sec/Sqcm
	× .001163	= Watt/Sqcm
Gram-Calorie/Hour/Sqcm/°C	× 49.16	= Btu/Day/Sqft/°F
	× 2.048	= Btu/Hr/Sqft/°F
	× .0002778	= Gram-Calorie/Sec/Sqcm/°C
	× .001163	= Watt/Sqcm/°C
Gram-Calorie/Hr/Sqcm/cm/°C	× 19.35	= Btu/Day/Sqft/In/°F
	× .0672	= Btu/Hr/Sqft/Ft/°F
	× .8058	= Btu/Hr/Sqft/Inch/°F
	× .0002778	= Gram-Calorie/Sec/Sqcm/cm/°C
	× .001163	= Watt/Sqcm/cm/°C
Gram-Calorie Mean (0-100C)	× 1.001	= Calorie IT
Gram-Calorie/Minute	× 3.086	= Foot-Pound/Minute
	× .00514	= Foot-Pound/Second
	× .4/o935595	= Horsepower US
	× .0000948	= Horsepower Metric
	× .4/o697674	= Kilowatt
	× .0697674	= Watt
	× .0697534	= Watt International
Gram-Calorie/Second	× .00396832	= Btu/Second
	× 3.08746	= Foot-Pound/Second
	× .00561357	= Horsepower US
	× .005692	= Horsepower Metric
	× .001	= Kilogram-Calorie/Second

Gram-Calorie/Second

Gram-Calorie/Sec/Sqcm

Gram-Calorie/Sec/Sqcm/

Gram-Calorie/Sec/Sqcm/

Gram-Calorie Thermochem

Gram-Centimeter

Gram-Centimeter/Second

Gram-Centimeter Squared

Gram-Cubic Centimeter

Gram/Hour

Gram-Calorie/Second	× .4269	= Kilogram-Meter/Second
	× .00418605	= Kilowatt
	× 4.18605	= Watt
Gram-Calorie/Sec/Sqcm	× 318531.	= Btu/Day/Sqft
	× 13272.	= Btu/Hr/Sqft
	× 3600.	= Gram-Calorie/Hr/Sqcm
	× 4.187	= Watt/Sqcm
Gram-Calorie/Sec/Sqcm/°C	× 176962.	= Btu/Day/Sqft/°F
	× 7373.	= Btu/Hr/Sqft/°F
	× 3600.	= Gram-Calorie/Hr/Sqcm/°C
	× 4.187	= Watt/Sqcm/°C
Gram-Calorie/Sec/Sqcm/cm/°C	× 69670.	= Btu/Day/Sqft/In/°F
	× 241.9	= Btu/Hr/Sqft/Ft/°F
	× 2903.	= Btu/Hr/Sqft/In/°F
	× 3600.	= Gram-Calorie/Hr/Sqcm/cm/°C
	× 1.0	= Gram-Calorie/Sec/Sqcm/cm/°C
	× 4.186	= Joule/Sec/Sqcm/cm/°C
	× 850.6	= Joule/Sec/Sqft/In/°F
	× 36000.	= Kg-Cal/Hr/Sqm/cm/°C
	× .8506	= Kw-Hr/Hr/Sqft/In/°F
	× 41.86	= Kw-Hr/Hr/Sqm/cm/°C
	× 4.186	= Thermal Ohm/Sec/Sqcm/cm/°C
	× 4.18605	= Watt/Sqcm/cm/°C
Gram-Calorie Thermochemical	× .0039657	= Btu
	× .99935	= Calorie IT
	× .021430	= Cuft-Lb-Wgt/Sqin
	× 41.2929	= Cucm-Atmosphere
	× 3.08595	= Foot-Pound-Weight
	× .5/o155856	= Horsepower-Hour US
	× .5/o116203	= Kilowatt-Hour Int
	× .0412917	= Liter-Atmosphere
Gram-Centimeter	× .7/o929658	= Btu
	× 980.665	= Dyne-Centimeter
	× 980.665	= Erg
	× .4/o7233	= Foot-Pound
	× .00232714	= Foot-Poundal
	× .4/o23427	= Gram-Calorie
	× .10/o3654	= Horsepower US/Hour
	× .4/o980665	= Joule
	× .7/o23427	= Kilogram-Calorie
	× .4/o1	= Kilogram-Meter
	× .10/o2724	= Kilowatt-Hour
	× .000980665	= Newton-Meter
	× .4/o980665	= Watt-Second
	× .7/o2724	= Watt-Hour
Gram-Centimeter/Second	× 980.665	= Erg/Second
	× .4/o980665	= Watt
Gram-Centimeter Squared	× .6/o1	= Kilogram-Meter Squared
	× .000341716	= Pound-Inch Squared
	× .5/o237303	= Pound-Foot Squared
	× .7/o737507	= Slug-Foot Squared
Gram-Cubic Centimeter	× 980.665	= Dyne/Cubic Centimeter
	× .437	= Grain/Cubic Foot
	× 1000.	= Kilogram/Cubic Meter
	× 62.4283	= Pound/Cubic Foot
	× .03613	= Pound/Cubic Inch
	× 1685.56	= Pound/Cubic Yard
	× 8.345	= Pound/Gallon Liquid US
	× .6/o3405	= Pound/Mil-Foot
	× 1.162283	= Poundal/Cubic Inch
	× .7525	= Ton Long/Cubic Yard
	× 1.0	= Ton Metric/Cubic Meter
	× .8428	= Ton Short/Cubic Yard
Gram/Hour	× .024	= Kilogram/Day
	× .28183	= Kilo-ounce Troy/Year
	× .27777	= Milligram/Second

CONVERSION FACTORS

Gram/Hour	× .035274	= Ounce Avoir/Hour
	× .77162	= Ounce Troy/Day
	× .032151	= Ounce Troy/Hour
	× .0529111	= Pound Avoir/Day
	× .0022046	= Pound Avoir/Hour
	× .0087658	= Ton Metric/Year
	× .0096626	= Ton Short Avoir/Year
Gram/Liter	× 58.418	= Grain/Gallon
	× 22.4	= Gram-Molecular Weight (Gas)
	× .134	= Ounce Avoir/Gallon US
	× 1000.	= Part/Million
	× 2.44	= Pennyweight/Gallon US
	× .062427	= Pound/Cubic Foot
	× .008345	= Pound/Gallon
Gram-Mass	× 1.0	= Dyne/cm/Sec Squared
	× °C	= Gram-Calorie
Gram-Mass/Centimeter	× 980.665	= Dyne/Centimeter
	× 39.1983	= Grain/Inch
	× 100.	= Kilogram/Kilometer
	× .10	= Kilogram/Meter
	× .067197	= Pound/Foot
	× .0056	= Pound/Inch
	× 354.80	= Pound/Mile
	× .201591	= Pound/Yard
	× .180154	= Poundal/Inch
	× .15839	= Ton Long/Mile
	× .10	= Ton Metric/Mile
	× .17740	= Ton Short/Mile
Gram-Mass/Centimeter-Hour	× .0278	= Centipoise
	× .000278	= Dyne-Second/Sq Centimeter
	× 2.78	= Dyne-Second/Sq Meter
	× .00179	= Dyne-Second/Sq Inch
	× .258	= Dyne-Second/Sq Foot
	× .000278	= Gram-Mass/Centimeter-Second
	× .00166	= Gram-Mass/Centimeter-Minute
	× .6/o278	= Kilogram-Mass/Centimeter-Second
	× .4/o278	= Kilogram-Mass/Meter-Second
	× .00166	= Kilogram-Mass/Meter-Minute
	× .1	= Kilogram-Mass/Meter-Hour
	× .5/o283	= Kilogram-Force-Second/Sq Meter
	× .000278	= Poise
	× .5/o625	= Pound-Force-Second/Sq Meter
	× .8/o403	= Pound-Force-Second/Sq Inch
	× .6/o58	= Pound-Force-Second/Sq Foot
	× .10/o672	= Pound-Force-Minute/Sq Inch
	× .8/o967	= Pound-Force-Minute/Sq Foot
Gram-Mass/Centimeter-Hour	× .8/o614	= Pound-Mass/Centimeter-Second
	× .5/o155	= Pound-Mass/Inch-Second
	× .4/o186	= Pound-Mass/Foot-Second
	× .6/o367	= Pound-Mass/Centimeter-Minute
	× .4/o934	= Pound-Mass/Inch-Minute
	× .00112	= Pound-Mass/Foot-Minute
	× .5/o217	= Pound-Mass/Centimeter-Hour
	× .0056	= Pound-Mass/Inch-Hour
	× .0671	= Pound-Mass/Foot-Hour
	× .8/o614	= Poundal-Second/Sq Centimeter
	× .5/o155	= Poundal-Second/Sq Inch
	× .4/o186	= Poundal-Second/Sq Foot
	× .6/o367	= Poundal-Minute/Sq Centimeter
	× .4/o934	= Poundal-Minute/Sq Inch
	× .00112	= Poundal-Minute/Sq Foot
	× .5/o217	= Poundal-Hour/Sq Centimeter
	× .0056	= Poundal-Hour/Sq Inch
	× .0671	= Poundal-Hour/Sq Foot
Gram-Mass/Centimeter-Minute	× 1.66	= Centipoise
	× .0166	= Dyne-Second/Sq Centimeter

Gram-Mass/Centimeter-Minute	× 166.	= Dyne-Second/Sq Meter
	× .107	= Dyne-Second/Sq Inch
	× 15.5	= Dyne-Second/Sq Foot
	× .0166	= Gram-Mass/Centimeter-Second
	× 60.	= Gram-Mass/Centimeter-Hour
	× .4/o166	= Kilogram-Mass/Centimeter-Second
	× .00166	= Kilogram-Mass/Meter-Second
	× .1	= Kilogram-Mass/Meter-Minute
	× 6.	= Kilogram-Mass/Meter-Hour
	× .00017	= Kilogram-Force-Second/Sq Meter
	× .0166	= Poise
	× .000374	= Pound-Force-Second/Sq Meter
	× .6/o242	= Pound-Force-Second/Sq Inch
	× .4/o348	= Pound-Force-Second/Sq Foot
	× .8/o404	= Pound-Force-Minute/Sq Inch
	× .6/o58	= Pound-Force-Minute/Sq Foot
	× .6/o368	= Pound-Mass/Centimeter-Second
	× .4/o933	= Pound-Mass/Inch-Second
	× .00112	= Pound-Mass/Foot-Second
	× .4/o22	= Pound-Mass/Centimeter-Minute
	× .0056	= Pound-Mass/Inch-Minute
	× .067	= Pound-Mass/Foot-Minute
	× .3/o13	= Pound-Mass/Centimeter-Hour
	× .336	= Pound-Mass/Inch-Hour
	× 4.04	= Pound-Mass/Foot-Hour
	× .6/o368	= Poundal-Second/Sq Centimeter
	× .4/o933	= Poundal-Second/Sq Inch
	× .00112	= Poundal-Second/Sq Foot
	× .4/o22	= Poundal-Minute/Sq Centimeter
	× .0056	= Poundal-Minute/Sq Inch
	× .067	= Poundal-Minute/Sq Foot
	× .3/o13	= Poundal-Hour/Sq Centimeter
	× .336	= Poundal-Hour/Sq Inch
	× 4.04	= Poundal-Hour/Sq Foot
Gram-Mass/Centimeter-Secvond	× 100.	= Centipoise
	× 1.	= Dyne-Second/Sq Centimeter
	× 10000.	= Dyne-Second/Sq Meter
	× 6.45	= Dyne-Second/Sq Inch
	× 929.03	= Dyne-Second/Sq Foot
	× 60.	= Gram-Mass/Centimeter-Minute
	× 3600.	= Gram-Mass/Centimeter-Hour
	× .001	= Kilogram-Mass/Centimeter-Second
	× .1	= Kilogram-Mass/Meter-Second
	× 6.	= Kilogram-Mass/Meter-Minute
	× 360.	= Kilogram-Mass/Meter-Hour
	× .010194	= Kilogram-Force-Second/Sq Meter
	× 1.	= Poise
	× .02247	= Pound-Force-Second/Sq Meter
	× .4/o145	= Pound-Force-Second/Sq Inch
	× .00209	= Pound-Force-Second/Sq Foot
	× .6/o242	= Pound-Force-Minute/Sq Inch
	× .4/o348	= Pound-Force-Minute/Sq Foot
	× .4/o2204	= Pound-Mass/Centimeter-Second
	× .0056	= Pound-Mass/Inch-Second
	× .0672043	= Pound-Mass/Foot-Second
	× .001322	= Pound-Mass/Centimeter-Minute
	× .336	= Pound-Mass/Inch-Minute
	× 4.032	= Pound-Mass/Foot-Minute
	× .007837	= Pound-Mass/Centimeter-Hour
	× 20.16	= Pound-Mass/Inch-Hour
	× 241.93548	= Pound-Mass/Foot-Hour
	× .4/o2204	= Poundal-Second/Sq Centimeter
	× .0056	= Poundal-Second/Sq Inch
	× .0672	= Poundal-Second/Sq Foot
	× .00132	= Poundal-Minute/Sq Centimeter
	× .336	= Poundal-Minute/Sq Inch

G CONVERSION FACTORS

Gram-Mass/Centimeter-Second	× 4.032	=	Poundal-Minute/Sq Foot
	× .0078	=	Poundal-Hour/Sq Centimeter
	× 20.16	=	Poundal-Hour/Sq Inch
	× 241.93	=	Poundal-Hour/Sq Foot
	× Rhe	=	1.0
Gram-Mole	× 1.986	=	Btu/°R
	× 82.0567	=	Cucm × Atmos/°K
	× 1.98719	=	Gram-Calorie/°K
	× 8.31439	=	Joule Absolute/°K
	× 8.3130	=	Joule Int/°K
	× .0005819	=	Kw-hr/°R
	× .820544	=	Liter × Atmos/°K
	× .08314	=	Liter × Bar/°K
	× .08478	=	Liter × (kg/sqcm)/°K
	× 62.361	=	Liter × mmHg/°K
Gram-Molecule	× 1.0	=	Mol or Mole
	× Gram	=	Molecular Weight
(Gas 32F-29.921"Hg)	× 22380.	=	Cubic Centimeter Volume
	× 22.38	=	Liter Volume
Gram-Molecular Weight	× .0446	=	Gram/Liter (Gas)
	× .0346	=	Specific Gravity (Gas)
	× .5	=	Vapor Density (Gas)
Gram-One (Bennett System)	= 10.	=	Gram
Two	= 100.	=	Gram
Three	= 1000.	=	Gram
Four	= 10000.	=	Gram
Five	= 100000.	=	Gram
Six	= 1000000.	=	Gram (Etc.)
Gram/Square Centimeter	× .96778	=	Atmosphere 76cm
	× 980.665	=	Dyne/Square Centimeter
	× 32.8083	=	Feet Water 39.1F
	× .02895	=	Inch Mercury 13.596 spg
	× .1	=	Kilogram/Square Meter
	× 10.	=	Meter Water 39.1F
	× .07355	=	Millimeter Mercury
	× 2048.17	=	Pound/Square Foot
	× .01422	=	Pound/Square Inch
	× .457592	=	Poundal/Square Inch
	× 1.02408	=	Ton Short/Square Foot
	× 980.7	=	Bar
	× .007356	=	Centimeter Mercury 32F
	× .9143	=	Ton Long/Square Foot
	× .9807	=	Newton/Sq Meter
	× 393.6	=	Inch Water 39.1F
	× .00224	=	Feet Mercury 13.596 spg
	× .9138	=	Ton Long/Sqft
	× .0063	=	Ton Long/Sqin
	× .007	=	Ton Short/Sqin
	× .01	=	Centigram/Sq Meter
	× .1	=	Meter Water 39.1F
Gram/Square Inch/Hour	× 360000.	=	mg/Sqdm/Day
Gram/Square Millimeter	× 204.768	=	Pound/Sqft
	× 1.422	=	Pound/Square Inch
	× .0914	=	Ton Long/Sqft
	× .4/o71	=	Ton Long/Sqin
	× .10238	=	Ton Short/Sqft
	× .0007	=	Ton Short/Sqin
Granite: Crushed 3/4": Cubic Yard	× 2500.	=	Pound
1-1/2": Cubic Yard	× 2400.	=	Pound
3/4": Ton	× .80	=	Cubic Yard
1-1/2": Ton	× .832	=	Cubic Yard
Cubic Foot	× 156.06	=	Pound (low)
	× 187.28	=	Pound (high)
Linear Expansion: Inch	× 4.6	=	Micro-Inch/Degree F
Ton	× 11.7	=	Cubic Feet
Gravel: Coarse: Cubic Foot	× .0435	=	Ton

Gravel: Coarse: Cub
Na... Slop
Ton
Washed-Scr
Gravity: Acceleratio
Acceleratio
Feet/Secon
Height
Height Feet
Square Roo
Square Roo
Time: Secor
Velocity Sq
Green
Gross
Gross Great
Hafnium: (Hf): #72:1
Hairs-Breadth
Hand
Hank:
Alp... amel
Cot... pun F
Mohair-Worste
Ramie
Or Lea: Hemp-
Cut or Skein
Hard Pan: Square Fo
Hauling (Load-Haul-
Hauling: 1-H Cart:
2-H Wagon:
1-T Truck:
2-T Truck:

Gravel: Coarse: Cubic Yard	× 2700.	= Pound
	× 1.227	= Ton
Natural Slope:	= 40.	= Degree
Ton	× .74	= Cubic Yard
Washed-Screened: Cubic Foot	× 82.	= Pound
Gravity: Acceleration	= 980.665	= Dyne
	= 32.2	= Feet/Sec Squared (Common)
	= 385.92	= Inch/Sec Squared
	× Time	= Velocity
Acceleration Standard	= 980.665	= cm/Sec Squared
	= 32.1740	= Feet/Sec Squared
	= 32.174	= Lb-Mass-Ft/Lb-Force-Sec Squared
	= 9.80665	= m/Sec Squared
Feet/Second Squared	× .015547	= Height in Feet
Height	× 64.4	= Velocity Squared
Height Feet	× 64.4	= Feet/Second Squared
Square Root Feet Height	× 8.02	= Feet/Second
Square Root Feet Height	× .24938	= Time in Second
Time: Seconds Squared	× 16.1	= Feet Falling Distance
Velocity Squared	× .015547	= Height
Green	= 5750.	= Angstrom
	= 22.6	= Micro-Inch
Gross	× 12.	= Dozen
	= .0069445	= Reciprocal
	× 144.	= Unit
Gross Great	× 144.	= Dozen
	× 12.	= Gross
	× 1728	= Unit

H

Hafnium: (Hf): #72:178.6 AW:		
Hairs-Breadth	× .020833	= Inch
Hand	× 10.16002	= Centimeter
	× 4.	= Inch
Hank:	× 840.	= Yard (Cotton)
	× 560.	= Yard (Worsted)
Alpaca-Camel Hair-Cashmere	× 560.	= Yard/Pound Avoir.
Cotton-Spun Rayon-Spun Silk	× 840.	= Yard/Pound Avoir.
Mohair-Worsted	× 560.	= Yard/Pound Avoir
Ramie	× 300.	= Yard/Pound Avoir
Or Lea: Hemp-Linen	× 300.	= Yard/Pound Avoir
Cut or Skein	× 1.0	= Count
Hard Pan: Square Foot of Area	× 2. to 2.5	= Ton (Support)
Hauling (Load-Haul-Dump): Hour/Ton	× .0019	= Hour/Barrel (Cement-Line)
	× .4/o24	= Hour/Brick (Piled)
	× .024	= Hour/1000 Brick (Piled)
	× .4/o15	= Hour/BF(Lumber-Timber)
	× .01226	= Hour/Cuyd (Dirt-Sand-Rock)
Hauling: 1-H Cart: Concrete Road: Ton	× 1.04M + .28	= Hour(Load-Haul-Dump) M = Mile
Dirt Road: Ton	× 1.3M + .34	= Hour(Load-Haul-Dump)
Gravel Road: Ton	× 1.12M + .29	= Hour(Load-Haul-Dump)
Macadam Road: Ton	× 1.04M + .28	= Hour(Load-Haul-Dump)
Plowed Ground: Ton	× 3.9M + 1.02	= Hour(Load-Haul-Dump)
Poor Dirt Road: Ton	× 1.83M + .5	= Hour(Load-Haul-Dump)
2-H Wagon: Concrete Road: Ton	× .56M + .09	= Hour(Load-Haul-Dump)
Dirt Road: Ton	× .685M + .14	= Hour(Load-Haul-Dump)
Gravel Road: Ton	× .6M + .1	= Hour(Load-Haul-Dump)
Macadam Road: Ton	× .56M + .09	= Hour(Load-Haul-Dump)
Plowed Ground: Ton	× 2.06M + .4	= Hour(Load-Haul-Dump)
Poor Dirt Road: Ton	× .96M + .18	= Hour(Load-Haul-Dump)
1-T Truck: Concrete Road: Ton	× .148M + .08	= Hour(Load-Haul-Dump)
Dirt Road: Ton	× .225M+.125	= Hour(Load-Haul-Dump)
Gravel Road: Ton	× .17M + .09	= Hour(Load-Haul-Dump)
Macadam Road: Ton	× .16M + .08	= Hour(Load-Haul-Dump)
Plowed Ground: Ton	× .72M + .4	= Hour(Load-Haul-Dump)
Poor Dirt Road: Ton	× .28M + .1	= Hour(Load-Haul-Dump)
2-T Truck: Concrete Road: Ton	× .072M + .04	= Hour(Load-Haul-Dump)

H CONVERSION FACTORS

Hauling: 2-T Truck:	Dirt	Road: Ton	× .105M + .065	= Hour(Load-Haul-Dump)
	Gravel	Road: Ton	× .08M + .05	= Hour(Load-Haul-Dump)
	Macadam	Road: Ton	× .08M + .04	= Hour(Load-Haul-Dump)
	Plowed Ground: Ton		× .34M + .21	= Hour(Load-Haul-Dump)
	Poor Dirt Road: Ton		× .12M + .08	= Hour(Load-Haul-Dump)
5-T Truck:	Concrete	Road: Ton	× .026M + .02	= Hour(Load-Haul-Dump)
	Dirt	Road: Ton	× .04M + .03	= Hour(Load-Haul-Dump)
	Gravel	Road: Ton	× .03M + .0225	= Hour(Load-Haul-Dump)
	Macadam	Road: Ton	× .03M + .02	= Hour(Load-Haul-Dump)
	Plowed Ground: Ton		× .13M + .1	= Hour(Load-Haul-Dump)
	Poor Dirt Road: Ton		× .048M + .036	= Hour(Load-Haul-Dump)
Hay: Cubic Feet			× .001818	= Ton Short
Rick: Feet "Over" Distance × Length × Width Ft × .37				= Ton Short (Hay)
Small Bale			× 66.666	= Pound (30 Bales/Ton)
Standard Bale			× 120.	= Pound
Ton Short			× 550.	= Cubic Feet
Head: Elevation psi			+ psi Press Hd	= Total Head psi
Feet Elevation			× .433	= psi
Total at High Station			- Low Sta Hd	= Friction Drop
Head in Feet			× .43302	= Pound/Square Inch
× Gallon/Minute			× .0003885	= Horsepower US
Heater: Portable Electric:			= 1000-1300	= Watt (Average Use)
Heat From: Electric Range:			= 7500.	= Btu/Hour
Gas Range:			= 32000.	= Btu/Hour
Motors, Lights:		Watt	× 3.41	= Btu/Hour
Occupants Idle:			= 400.	= Btu/Hour/Person
Window Unshaded:			= 100.	= Btu/Hour/Sqft Sash
Window w/Awning:			= 25.	= Btu/Hour/Sqft Sash
Window w/Blind or Venetians:			= 60.	= Btu/Hour/Sqft Sash
Occupants Working:			= 660.	= Btu/Hour/Person
Hectare (ha)			× 2.47104	= Acre
			× 100.	= Are
			× 107638.7	= Square Feet
Hectare (ha)			× 15499969.	= Square Inch
			× .01	= Square Kilometer
			× 10000.	= Square Meter
			× .00386101	= Square Mile
			× 395.366	= Square Rod
			× 11959.85	= Square Yard
Hecto			= 100. = 10^2	= One Hundred
Hectogram (hg)			× 10.	= Decagram
			× 1543.23488	= Grain
			× 100.	= Gram
			× .001	= Hundredweight
			× 3.527398	= Ounce Avoir
			× 3.215	= Ounce Troy
			× .22046	= Pound Avoir
			× .26792	= Pound Troy
Hectoliter (hl)			× 2.75	= Bushel British
			× 2.8378	= Bushel US Struck
			× 3.53159	= Cubic Feet
			× .1	= Cubic Meter
			× .1308	= Cubic Yard
			× 26.42	= Gallon Liquid US
			× 100.	= Liter
			× 11.321	= Peck
Hectometer (hm)			× 328.089	= Feet
			× 3937.079	= Inch
			× 100.	= Meter
			× .06214	= Mile Statute US
			× 109.361114	= Yard
Hectopieze			× .9871	= Bar
			× 29.53	= Inch of Mercury
Hefner			× .90	= Bougie Decimales
			× .864	= Candle English
			× .855	= Candle German

Hefner	× .094	= Carcel
	× .90	= International Candle
	× .09	= 10-cp Pentanes
Helium: (He): #2:4.003 AW:		
Hemisphere:	× .5	= Sphere
	× 4.	= Spherical Right Angle
	× 6.283	= Steradian
Dome: Diameter Squared	× 1.5708	= Curved Surface Area
Radius Squared	× 12.5664	= Curved Surface Area
Radius Cubed	× 2.0943951	= Volume
Radius Squared	× 9.42477	= Area Total Surface
Henry (L)	× 1(9/o).	= Abhenry
	× 1(9/o).	= Electromagnetic Unit
	× .11/o111279	= Electrostatic Unit
	× 1.0	= Henry Absolute
	× .999505	= Henry International
	× 1(6/o).	= Microhenry
	× 1000.	= Millihenry
	× 1.0	= Self-Inductance Unit
	× .11/o111279	= Stathenry
Henry Absolute	× 1.0	= Henry
Henry International	× 1.000495	= Henry Absolute
Heptagon: Short Radius Squared	× 3.37101	= Area
Wide of Side Squared	× 3.633912	= Area
Hexagon: Diagonal	× .5	= Side
Long × Short Diameter	× 1.1547	= Circumscribing Circumference
Short Diameter	× 1.1547	= Diagonal
Short Diameter	× .577	= Side
Short Diameter × Side	× 1.5	= Area
Short Diameter Squared	× .866	= Area
Short Radius Squared	× 3.46410	= Area
Side	× 2.	= Diagonal
Width of Side Squared	× 2.598076	= Area
Hexane: 30Hg60F: Gas: Boiling Point	= 615.39	= Degree R
Critical Pressure	= 434.	= psi
Critical Temperature	= 454.6	= Degree R
Cuft	× 4773.	= Btu
Cuft	× 45.35	= Cuft Air to Burn
Density: Cuft	× .2271	= Pound
Mean Coeff Expansion	= .0007	= (0-50F)
	= .00078	= (50-100F)
Melting Point	= 320.	= Degree R
Molecular Weight	= 86.11	
Pound	× 20970.	= Btu
	× 138.	= Btu Heat Vaporization @ BP
Specific Gravity	= 3.459 (Air	= 1)
Specific Heat: Cuft	× .1006	= Btu
Pound	× .406	= Btu
Liquid: Degree API	= 81.6	
Gallon	× 113746.	= Btu
	× 114900.	= Btu Heat Vaporization @ BP
	× 24.38	= Cuft
	× 5.53	= Pound
Pound	× 20583.	= Btu
	× 4.40	= Cuft
Specific Gravity	= .664	
Vapor Pressure	= 26.1	= psi Gage 60F
	= 23.6	= psi Gage 80F
	= 20.	= psi Gage 100F
	= 14.8	= psi Gage 120F
Hogshead: Liquid US	× 2.	= Barrel (31.5)
	× .2384759	= Cubic Meter
	× 63.	= Gallon Liquid US
	× 2016.	= Gill
	× 238.4759	= Liter
	× 504.	= Pint

CONVERSION FACTORS

Hogshead: Liquid US	× 252.	=Quart
Hoisting: Sin Hoist Angle w/Horiz × fpm	× Pound Load	× .4/o33 = HP
Hole: Digging: Man-Day	× 191.	= Cuft Dirt Loaded On Truck
	× 128.	= Cuft Dug: Dirt
Drilled or Dug: Cuyd of Sand × 4945.055		= Inch Diam Squared × Feet Filled with Sand
Holmium: (Ho): #67:164.94 AW:		
Horsepower: To Hoist Vertical × 33000.		= Pound Load × Feet/Minute
Number Cylinder × Inch Diam Squared	× .4	= Gas Engine Horsepower
Horsepower Boiler	× 33475.	= Btu/Hour
	× 50 to 75	= Cuft Natural Gas to Fire
	× 34.5	= Lb Water/Hr (From-At 212F)
	× 165.	= Sqft Hot Water Radiation
	× 12 to 15	= Sqft of Fire Surface
	× 100 to 139	= Sqft of Steam Radiation
Horsepower Continental	× 75.	= Kilogram-Meter/Second
	× 1.	= Metric Horsepower/Second
	× 736.	= Watt
Horsepower Electric	× .707200	= Btu/Second
	× 746(7/o).	= Erg/Second
	× 33013.2	= Foot-Pound/Minute
	× 550.220	= Foot-Pound/Second
	× 178.211	= Gram-Calorie/Second
	× 1.00040	= Horsepower US
	× 746.	= Joule/Second
	× .746	= Kilowatt
	× 746.	= Watt
Horsepower-Hour Boiler	× 33479.	= Btu/Hour
	× .552	= Cuft Water Required 212F
	× 4.6	= Gallon Water Required 212F
	× 9.809	= Kilowatt/Hour
	× 34.5	= Pound Water Required 212F
Horsepower-Hour Metric	× 2509.83	= Btu
	× 1952910.	= Foot-Pound
	× .98632	= Horsepower-Hour US
	× 60.	= Horsepower-Minute Metric
	× 3600.	= Horsepower-Second Metric
	× 2647610.	= Joule
	× 632.467	= Kilocalorie
	× 632.467	= Kilogram-Calorie
	× 270.	= Kilogram-Kilometer
	× 270000.	= Kilogram-Meter
	× 75.	= Kilogram-Meter-Hour
	× .73545	= Kilowatt-Hour
	× 26131.	= Liter-Atmosphere
	× .75	= Poncelet-Hour
	× 1395.5	= Pound Chu/Minute
	× 735.5	= Watt-Hour
Horsepower-Hour/Minute	× 60.	= Horsepower US
Horsepower-Hour US	× 2544.987	= Btu
	× 4.63	= Cuft Manufactured Gas
	× 2.26	= Cuft Natural Gas
	× 2684(10/o).	= Dyne-Centimeter
	× 2684(10/o).	= Erg
	× 1980000.	= Foot-Pound
	× 641303.	= Gram-Calorie
	× 2737(7/o).	= Gram-Centimeter
	× 1.01387	= Horsepower-Hour Metric
	× 60.	= Horsepower-Minute US
	× 3600.	= Horsepower-Second US
	× 23760000.	= Inch-Pound
	× 2684530.	= Joule
	× 641.303	= Kilocalorie
	× 641.303	= Kilogram-Calorie
	× 273745.	= Kilogram-Meter
	× .745702	= Kilowatt-Hour
	× .4/o85126	= Kilowatt-Year

Horsepower-Hour US	× 1415.	= Lb-Chu/Minute
	× 26493.	= Liter-Atmosphere
	× 1801(14/o).	= Mass Unit
	× 168(17/o).	= Mev
	× 375.	= Mile-Pound
	× .76049	= Poncelet-Hour
	× .195	= Pound Anthracite
	× 1415.	= Pound-Chu/Minute
	× .406	= Pound Dry Wood
	× .133	= Pound Fuel Oil
	× 2.94	= Pound Water Evap. 212F
	× 10.	= Pound Water Raised 62-212F
	× 745.702	= Watt-Hour
	× 2684530.	= Watt-Second
Horsepower Indicated	× Mech Eff	= Brake Horsepower
Horsepower Metric	× 41.83	= Btu/Minute
	× .69718	= Btu/Second
	× 1.0	= Cheval Vapeur
	× 7354480000.	= Erg/Second
	× 32548.5	= Foot-Pound/Minute
	× 542.47	= Foot-Pound/Second
	× .9863	= Horsepower US
	× 10.55	= Kilogram-Calorie/Minute
	× .17569	= Kilogram-Calorie/Second
	× 4500.	= Kilogram-Meter/Minute
	× 75.	= Kilogram-Meter/Second
	× .7355	= Kilowatt
	× 1.0	= Pferde Starke
	× .75	= Poncelet
	× 23.255	= Pound-Chu
	× 735.5	= Watt
Horsepower-Minute Metric	× 41.83	= Btu
	× 32548.5	= Foot-Pound
	× 44133.3	= Joule
	× 10.548	= Kilogram-Calorie
	× 4500.	= Kilogram-Meter
	× 12.258	= Watt-Hour
Horsepower/Minute US	× 42.41645	= Btu
	× 33000.	= Foot-Pound
	× 44741.	= Joule
	× 10.695	= Kilogram-Calorie
	× 4562.5	= Kilogram-Meter
	× 12.428	= Watt-Hour
Horsepower/Second Metric	× 542.475	= Foot-Pound/Second
	× .98632	= Horsepower US
	× 75.	= Kilogram-Meter/Second
	× .75	= Poncelet
Horsepower/Second US	× .70694	= Btu
	× 550.	= Foot-Pound
	× 481.11	= Foot-Pound Austria
	× 484.56	= Foot-Pound Prussia
	× 609.20	= Foot-Pound Russia
	× 602.51	= Foot-Pound Sweden
	× .17812	= Kilogram-Calorie
	× 76.05	= Kilogram-Meter
	× 746.	= Joule
	× .2071	= Watt-Hour
Horsepower US	× 2544.90	= Btu/Hour
	× 42.41502	= Btu/Minute
	× .706917	= Btu/Second
	× 7457020000.	= Erg/Second
	× 33000.	= Foot-Pound/Minute
	× 550.	= Foot-Pound/Second
	× 178.140	= Gram-Calorie/Second
	× 1.01387	= Horsepower Metric
	× 745.702	= Joule/Second

CONVERSION FACTORS

Horsepower US	× .178140	= Kilocalorie/Second
	× 10.70	= Kilogram-Calorie/Minute
	× .178140	= Kilogram-Calorie/Second
	× 4562.4	= Kilogram-Meter/Minute
	× 76.04	= Kilogram-Meter/Second
	× .745702	= Kilowatt
	× 375.	= Mile-Pound/Hour
	× 5.	= Number of Men (Equivalent)
	× .76040	= Poncelet
	× 23.583	= Pound-Chu
	× 1.0	= Second-Foot (Falling 8.8')
	× 745.702	= Watt
	× 745.578	= Watt International
	× 746.	= Watt (Standard AIEE)
Hour	× .0417	= Day
	× 60.	= Minute
	× .00137	= Month (1/12 year)
	× 3600.	= Second
	× .0001142	= Year
Hour × Ampere	× Volt	= Watt-Hour
× Ampere × Volt	× .001	= Kilowatt-Hour
Hour/Gram	× 41.66667	= Day/Kilogram
	× 1.29598	= Day/Ounce Troy
	× 18.89969	= Day/Pound Avoir
	× 28.34953	= Hour/Ounce Avoir
	× 31.1035	= Hour/Ounce Troy
	× 453.59243	= Hour/Pound Avoir
	× 3.54823	= Kilo-ounce Troy/Year
	× 3.6	= Second/Milligram
	× 114.07955	= Ton Metric/Year
	× 103.49124	= Year/Ton Short Avoir
Hour/Ounce Apoth-Troy	× 1.33941	= Day/Kilogram
	× .041667	= Day/Ounce Troy
	× .032151	= Hour/Gram
	× .11574	= Second/Milligram
	× .11408	= Year/Kilo-ounce Troy
	× 3.66774	= Year/Ton Metric
Hour/Ounce Avoir	× 1.46975	= Day/Kilogram
	× .66667	= Day/Pound Avoir
	× .035274	= Hour/Gram
	× 16.	= Hour/Pound Avoir
	× .12699	= Second/Milligram
	× 4.02404	= Year/Ton Metric
	× 3.65051	= Year/Ton Short Avoir
Hour/Pound Avoir	× .091860	= Day/Kilogram
	× .041667	= Day/Pound Avoir
	× .0022046	= Hour/Gram
	× .0625	= Hour/Ounce Avoir
	× .0079367	= Second/Milligram
	× .25150	= Year/Ton Metric
	× .22816	= Year/Ton Short Avoir
House Moisture: Cooking	= 1	= Pints Water/Day
Drying Clothes	= 26	= Pints Water/Load
Family Breathing	= 48	= Pints Water/Day
Shower Baths	= 5	= Pints Water/Day
Washing Clothes	= 5	= Pints Water/Load
Human Skin: Dry: Resistance to Electric Current		= 100, to 600,000 Ohms
Wet: Resistance to Electric Current		= 1000 Ohms
Hundredweight Long	× .05	= Gross Ton
	× 50.802352	= Kilogram
	× 112.	= Pound Avoir
	× 4.	= Quarter Avoir
	× 8.	= Stone
	× .05	= Ton Long
Hundredweight Short	× 1.0	= Cental
	× 1.0	= Centner

Hundredweight Short	× 1.8	= Cubic Feet
	× 11.2	= Gallon British
	× 45.359243	= Kilogram
	× 100.	= Pound
	× 4.	= Quarter
	× .05	= Ton Net
	× .05	= Ton Short
Hydrogen: (H): #1:1.0080 AW: Val. + 1:		
32F-30" Hg: Cubic Foot	× .00559	= Pound
Pound	× 178.931	= Cubic Feet
	× .4/o8989	= Lb Water (Wgt Comparison)
60F-30" Hg:	= .06952	= Specific Gravity (Air = 1)
Cubic Foot	× 325.3	= Btu Gross Combustion Heat
	× 2.391	= Cuft Air for Combustion
	× .00532	= Pound
Cuft Mixed Air-Gas	× 95.92	= Btu Gross Combustion Heat
Pound	× 61140.	= Btu Gross Combustion Heat
	× 187.87	= Cubic Feet
	× 34.357	= Pound Air for Combustion
Flame Temperature:	= 3920.	= Degree F Maximum
Sulphide: 60F-30" Hg: Cuft	× .09114	= Pound
Pound	× 10.97	= Cubic Feet
Hydroxide: OH:	= -1	= Valence
Ice: Before Crushing	= 6-30%	= Will Compress
Crushing	= 100 to 1000	= Pound/Square Inch
Cubic Expansion Coefficient		= .0001125
Cubic Foot	× 57.47	= Pound 32F
Expansion Coefficient		= .4/o52
Expansion Force	= 30000.	= Pound/Sqft (minimum)
Heat of Fusion	= 79.8	= Calorie
Latent Heat of Fusion	= 143.6	= Btu/Pound
Melting Point	= 491.66	= Degree F Absolute
Melting to Water @ 32F	= 143.6	= Heat-Units Absorbed
Point	= 0.00	= Degree Centigrade
	= 32.0	= Degree Fahrenheit
	= 273.6	= Degree Kelvin
Pound	× .0174	= Cubic Foot 32F
	× 30.0672	= Cubic Inch
Specific Gravity	= .922	(Water at 62F = 1)
Specific Heat (Water = 1)	= .504	= Btu/Pound/°F
Tensile Strength	= 142 to 223	= Pound/Square Inch
Volume	× .9212	= Water Volume
Icosahedron: Side Cubed	× 2.1817	= Volume
Side Squared	× 8.6603	= Total Area
Illumination: Design and Prolonged Reading	= 50 to 100	= Footcandle (30" Above Floor)
Drafting Work:	= 40.	= Foot Candle
Sqft	× 8.	= Watts
Office and Fine Mfg. Products	= 25 to 50	= Footcandle (30" Above Floor)
Office Work:	= 15.	= Foot-Candle
Sqft	× 5.	= Watt
Outdoor Daytime	= 5000.	= Footcandle (Average)
School and Rough Factory Work	= 10 to 20	= Footcandle (30" above Floor)
Imaginary Unit	= -1	= i
	= -1	= i^2
	= -i	= i^3
	= +1	= i^4
	= +i	= i^5
Impedance (Z)	= Sq Root of (Ohm Squared + Reactance Squared)	
Impedance (ohm)	× Ampere	= Volt
Inch	× 254000508.	= Angstrom
	× .0001157	= Cable Length
	× 2.54000508	= Centimeter
	× .000833	= Chain Engineer
	× .0012626	= Chain Gunter
	× .254	= Decemeter

CONVERSION FACTORS

Inch	× .01388	= Fathom
	× .08333	= Foot US
	× .0254000508	= Meter
	× 100000.	= Micro-Inch
	× 25400.0508	= Micron
	× .4/o1371	= Mile Nautical US
	× .4/o15783	= Mile Statute US
	× 25.4000508	= Millimeter
	× 25400050.8	= Millimicron
	× 1000.	= Mil
	× .4/o254	= Kilometer
	× .8/o1998	= Part of Earth Polar Axis
	× .005050	= Rod
	× .1111	= Span
	× .02777	= Yard
Inch Circular	× 6.54163	= Circular Centimeter
	× .00694444	= Circular Foot
	× 1(6/o).	= Circular Mil
	× 645.163	= Circular Millimeter
	× .2618	= Foot Circumference
	× 3.1416	= Inch Circumference
	× 5.06709	= Square Centimeter
	× .00545415	= Square Foot
	× .785398	= Square Inch
	× 785398.	= Square Mil
	× 506.709	= Square Millimeter
Inch Deep	× 2323300.	= Cubic Feet/Square Mile
	× .0737	= Second-Foot/Year
Inch, Edward II, AD1324	× 3.	= Barley Corns (End to End)
Inch in 64th	× .39688	= Millimeter
Inch: Mercury	× .03342	= Atmosphere
	× 929.6	= Feet Height Air 62F
	× 1.1308	= Feet Height Water 62F
	× 245.	= Feet/Second
	× 1.0	= Inch Height Mercury
	× 13.61	= Inch Height Water
	× 7.85	= Ounce/Square Inch
	× 70.73	= Pound/Square Foot
	× .49116	= Pound/Square Inch
Inch Mercury (60°C)	× 3.37685	= Kilopascal
Inch, Miners	× 1.0	= Gallon/Second
US Reclamation Service	× 1.0	= Cubic Foot/Second
Varies from	= .02 to .025	= Cubic Foot/Second
Inch-Pound	× .000107	= Btu
	× .0833	= Foot-Pound
	× .7/o421	= Horsepower-Hour
	× .7/o3137	= Kilowatt-Hour
Inch Water (60°F)	× .24884	= Kilopascal
Inch Water (4°F)	× .249082	= Kilopascal
Indium: (In) #49:114.76 AW:		
Infra-Red	= 7000.	= Angstrom
	= 27.5	= Micro-Inch
Insulation: 12" Masonry Wall	= .36	= Btu/Hr/Sqft/°F
House: Sqft of Floor Area	× 55.	= Btu Lost/Hr to Outdoor (Coal or Gas)
Sqft of Floor Area	× 40.	= Btu Lost/Hr to Outdoor (Elec Heat)
Interest Equations	= i + p	= Amount (a)
	= prt/p	= Amount (a)
	= prt	= Interest (i)
	= i/rt	= Principal (p)
	= a−p/pt	= Rate (r)
	= i/pt	= Rate (r)
	= i/pr	= Time (t)
Interference Band: Monochromatic Light	= 11.6	= Micro-Inch
International Candle	× 1.0	= Candlepower
International Kilo-Calorie	× 1.0	= IT Calorie (see)
Steam Table Calorie	× 1.0	= IT Calorie (see)

CONVERSION FACTORS

International Unit B_1	× 3.0	= Microgram
	× .003	= Milligram
	× 2.	= Sherman Unit
International Unit C	× .05	= Milligram
	× 1.0	= USPX1 Unit
	× .1	= Sherman Unit
Invar: Linear Expansion: Inch	× .4	= Micro-Inch/Degree F
Iodide: I:	= −1	= Valence
Iodine: (I): #53:126.92 AW:		
Iridium: (Ir): #77:193.1 AW: .0323 SpHt: 22.42 gm/cc:		
Iron, Automatic Hand:	= 1000	= Watt (avg use)
Iron: (Fe): #26:55.85 AW: .1075 Sp Ht: 7.87 gm/cc: MP1535C:BP2998C: .19 gm-cal/Sec/Sqcm/°C/cm:		
Cast: Spg 7.218: Cubic Foot	× 450.	= Pound
	× .2604	= Pound
Specific Heat	= .12	= Btu/Pound/°F
Wrought: Linear Expansion: Cubic Foot	× 480.	= Pound Spg 7.7
Cubic Inch	× .2778	= Pound
Inch	× 6.5	= Micro-Inch/Degree F
Ironer (Home):	= 1650.	= Watt (Avg Use)
Isobutane: 30Hg60F: Gas: Boiling Point	= 470.59	= Degree R
Critical Pressure	= 530.	= psi
Critical Temperature	= 732.89	= Degree R
Cuft	× 3268.	= Btu
	× 31.03	= Cuft Air to Burn
Density: Cuft	× .1531	= Pound
Mean Coeff Expansion	= .00113	= (0-50F)
	= .00128	= (50-100F)
Melting Point	= 714.99	= Degree R
Pound	× 21288.	= Btu
	× 158.	= Btu Heat Vaporization @ BP
Specific Gravity	= 2.006	(Air = 1)
Specific Heat: Cuft	× .0731	= Btu
Pound	× .406	= Btu
Liquid: Degree API	= 119.8	
Gallon	× 96685.	= Btu
	× 99300.	= Btu Heat Vaporization @ BP
	× 30.70	= Cuft
	× 4.69	= Pound
Pound	× 20579.	= Btu
	× 6.53	= Cuft
Specific Gravity	= .563	
Vapor Pressure	= 24.	= psi Gage 60F
	= 39.2	= psi Gage 80F
	= 59.	= psi Gage 100F
	= 83.3	= psi Gage 120F
Isopentane: 30Hg60F: Gas: Boiling Point	= 641.89	= Degree R
Critical Pressure	= 482.	= psi
Critical Temperature	= 829.69	= Degree R
Cuft	× 4012.	= Btu
	× 38.19	= Cuft Air to Burn
Density: Cuft	× .1901	= Pound
Melting Point	= 202.59	= Degree R
Pound	× 21058.	= Btu
	× 146.	= Btu Heat Vaporization @ BP
Specific Gravity	= 2.491	(Air = 1)
Specific Heat: Pound	× .413	= Btu
Liquid: Degree API	= 94.9	
Gallon	× 108700.	= Btu Heat Vaporization @ BP
	× 27.41	= Cuft
	× 5.20	= Pound
Pound	× 5.26	= Cuft
Specific Gravity	= .625	
Vapor Pressure	= 11.6	= psi Gage 60F
	= 1.1	= psi Gage 80F
	= 5.8	= psi Gage 100F
	= 13.9	= psi Gage 120F

CONVERSION FACTORS

Isosceles Triangle: Two Sides of Equal Length and Two Angles Equal.

IT Calorie	× 1.0	= Calorie IT (see)
	× 1.00037	= Kilogram-Calorie (Mean)

J

Jackhammer: 8—10" Reinf Concrete: Hour	× 50.	= Square Feet Broken Out
Joule	× .0009477	= Btu
	× .00023888	= Calorie Large
	× 1(7/o).	= Dyne-Centimeter
	× 1.0	= Energy Unit
	× 1(7/o).	= Erg
	× .737557	= Foot-Pound
	× .23888	= Gram-Calorie
	× 10197.16	= Gram-Centimeter
	× .6/o3777	= Horsepower-Hour Metric
	× .6/o3725	= Horsepower-Hour US
	× .4/o22350	= Horsepower-Minute US
	× .00136	= Horsepower-Second Metric
	× .00134102	= Horsepower-Second US
	× .999833	= Joule International
	× .0002388	= Kilocalorie
	× .00023888	= Kilogram-Calorie
	× .101972	= Kilogram-Meter
	× .001	= Kilojoule
	× .6/o2777	= Kilowatt-Hour
	× .001	= Kilowatt-Second
	× .009869	= Liter-Atmosphere
	× 1.0	= Newton-Meter
	× .6/o2833	= Poncelet-Hour
	× .000527	= Pound-Chu
	× 1.0	= Thermal Ohm
	× .0002777	= Watt-Hour
	× 1.	= Watt-Second
Joule/Centimeter	× 1(7/o).	= Dyne
	× 10190.	= Gram
	× 100.	= Joule/Meter
	× 10.20	= Kilogram-Force
	× 100.	= Newton
	× 22.48	= Pound-Force
	× 723.3	= Poundal
Joule International	× 1.000165	= Joule Absolute
Joule/Meter	× 100000.	= Dyne
	× 101.9	= Gram-Force
	× .01	= Joule/Centimeter
	× .1019	= Kilogram-Force
	× 1.0	= Newton
	× .2248	= Pound-Force
	× 7.233	= Poundal
Joule/Second	× 1(7/o).	= Dyne-Centimeter/Second
	× 1.0	= Watt
Joule/Sec/Sqft/In/°F Diff	× .001176	= gm-cal/Sec/Sqcm/cm/°C Diff
Juchart	× 36.	= Are
	× .88957	= Acre (US)

K

Kanna	× .69135	= Gallon Liquid US
	× 2.617	= Liter
Kansas City Heating Load	= 5300.	= Degree-Day
kB	× 1000.	= Btu
Kelvin Degree:	- 273.16	= Centigrade Degree
(Minus 273.16	× 1.8) 32	= Fahrenheit Degree
Minus 273.16	× .8	= Reaumur Degree
Ken	× 5.97	= Foot US
Kerosene: Barrel	× 385.	= Pound
Cubic Foot	× 51.	= Pound
Gallon	× 136000.	= Btu (Heat Value)
	× 6.8	= Pound
Pound (Heat Value)	× 18000.	= Btu (Maximum 22100)

Kerosene: Pound (Heat Value)	× 18000.	= Btu (Maximum 22100)
Kilderkin	× .081830	= Cubic Meter
	× 18.	= Gallon British
Kilo (k)	= 1000. = 10^3	= One Thousand
Kilo Btu (kB)	× 1000.	= Btu
Kilocalorie (kc)	× 3.968	= Btu
	× 1000.	= Calorie
	× 3088.4	= Foot-Pound
	× 99366.	= Foot-Poundal
	× 1.0	= Gram-Calorie
	× .001581	= Horsepower-Hour Metric
	× .001560	= Horsepower-Hour US
	× 4187.3	= Joule
	× 1.0	= Kilogram-Calorie
	× 426.99	= Kilogram-Meter
	× .00116279	= Kilowatt-Hour
	× 41.3	= Liter-Atmosphere
Kilocalorie/Second	× 426.9	= Kilogram-Meter/Second
Kilocalorie/Sec/Sqcm	× 318322.	= Btu/Day/Sqft
	× 13263.	= Btu/Hour/Sqft
	× 3600.	= Gram-Calorie/Hr/Sqcm
	× 4.183	= Watt/Sqcm
Kilocalorie/Sec/Sqcm/cm/°C	× 69624.	= Btu/Day/Sqft/Inch/°F
	× 2901.	= Btu/Hr/Sqft/Inch/°F
	× 3600.	= Gram-Calorie/Hr/Sqcm/cm/°C
	× 4.1833	= Watt/Sqcm/cm/°C
Kilodyne	× 1000.	= Dyne
	× 1.	= Gram (Approximately)
Kilofeet	× 1000.	= Feet
Kilogauss	× 1.0	= Kilomaxwell/Sq Centimeter
Kilogram	× 15432.35639	= Grain
	× 1000.	= Gram Water @ 4C
	× 10.	= Hectogram
	× .019	= Hundredweight Long
	× 1.0	= Liter (Water)
	× 35.273957	= Ounce Avoir
	× 32.150742	= Ounce Apoth-Troy
	× 1.7857	= Pound Austrian
	× 2.204622341	= Pound Avoir
	× 2.6792285	= Pound Apoth-Troy
	× 2.4419	= Pound Russian
	× 2.3525	= Pound Swedish
	× .0009842	= Ton Long US
	× .001	= Ton Metric
	× .0011023	= Ton Short US
	× 2.	= Zollpfund
Kilogram-Calorie	× 3.96832	= Btu
	× 418605(5/o).	= Dyne-Centimeter
	× 418605(5/o).	= Erg
	× 3087.46	= Foot-Pound
	× 1000.	= Gram-Calorie
	× 42685800.	= Gram-Centimeter
	× .001581	= Horsepower-Hour Metric
	× .00155932	= Horsepower-Hour US
	× 5.61	= Horsepower-Second US
	× 4186.05	= Joule
	× 1.0	= Kilocalorie
	× 426.858	= Kilogram-Meter
	× .00116279	= Kilowatt-Hour
	× 4.18605	= Kilowatt-Second
	× 1.	= Large Calorie
	× 2.2044	= lb-chu
	× 41.3	= Liter-Atmosphere
	× 999.76	= Mean Calorie
	× 5.688	= Metric Horsepower-Second
	× 9.9976	= Ostwald Calorie

CONVERSION FACTORS

Kilogram-Calorie	× .001186	= Poncelet-Hour
	× 2.2044	= Pound-Calorie
	× 2.2044	= Pound Centigrade Heat Unit
	× 2.2044	= Pound Chu
	× 1000.	= Small Calorie
	× 1.16279	= Watt-Hour
	× 4186.05	= Watt-Second
Kilogram-Calorie/Cubic Meter	× .11237	= Btu/Cubic Foot
Kilogram-Calorie/Hour/Sqm/cm/°C Diff	× .002778	= gm-cal/Sec/Sqcm/cm/°C Diff
Kilogram-Calorie/Kilogram	× 1.8	= Btu/Pound
Kilogram-Calorie/Liter	× 112.37	= Btu/Cubic Foot
Kilogram-Calorie/Minute	× 3.968	= Btu/Minute
	× 3086.	= Foot-Pound/Minute
	× 51.43	= Foot-Pound/Second
	× .0948	= Horsepower Metric
	× .0935595	= Horsepower US
	× .0697	= Kilowatt
	× 69.7674	= Watt
Kilogram-Calorie/Second	× 3.96832	= Btu/Second
	× 3087.46	= Foot-Pound/Second
	× 1000.	= Gram-Calorie/Second
	× 5.69200	= Horsepower Metric
	× 5.61357	= Horsepower US
	× 426.9	= Kilogram-Meter/Second
	× 4.18605	= Kilowatt
	× 4.269	= Poncelet
	× 4186.05	= Watt
Kilogram-Calorie/Square Meter	× .3687	= Btu/Sqft
Kilogram-Calorie/Sq Meter/°C Difference	× .2048	= Btu/Sqft/°F Difference
Kilogram/Cheval Vapeur	× 2.235	= Pound/Horsepower US
Kilogram/Cubic Meter	× .001	= Gram/Cubic Centimeter
	× .1	= Kilogram/Hectoliter
	× .07769	= Pound/Bushel US Struck
	× .062428	= Pound/Cubic Foot
	× .4/o3613	= Pound/Cubic Inch
	× 1.68556	= Pound/Cubic Yard
	× .009711	= Pound/Gallon Dry US
	× .008345	= Pound/Gallon Liquid US
	× .9/o3405	= Pound/Mil-Foot
	× .008428	= Ton Short/Cubic Yard
Kilogram/Day	× 41.6666	= Gram/Hour
	× 11.74281	= Kilo-ounce Troy/Year
	× 11.57407	= Milligram/Second
	× 1.46975	= Ounce Avoir/Hour
	× 32.15072	= Ounce Troy/Day
	× 1.33941	= Ounce Troy/Hour
	× 2.20462	= Pound Avoir/Day
	× .091860	= Pound Avoir/Hour
	× .36524	= Ton Metric/Day
	× .40261	= Ton Short Avoir/Year
Kilogram-Force	× 980665.	= Dyne
	× 1000.	= Gram-Force
	× .0980665	= Joule/Centimeter
	× 9.80665	= Joule/Meter
	× 1.0	= Kilogram Weight
	× 9.80665	= Meter/Second/Second
	× 9.80665	= Newton
	× 70.931	= Poundal
	× 2.20462	= Pound-Force
Kilogram-Force-Second/Square Meter	× 9809.691	= Centipoise
	× 98.09	= Dyne-Second/Sq Centimeter
	× 980969.	= Dyne-Second/Sq Meter
	× 633.	= Dyne-Second/Sq Inch
	× 9125.	= Dyne-Second/Sq Foot
	× 98.09	= Gram-Mass/Centimeter-Second
	× 5900.	= Gram-Mass/Centimeter-Minute

Kilogram-Force-Second/Square Meter	× 353000.	= Gram-Mass/Centimeter-Hour
	× .098096	= Kilogram-Mass/Centimeter-Second
	× 9.8096	= Kilogram-Mass/Meter-Second
	× 590.	= Kilogram-Mass/Meter-Minute
	× 35300.	= Kilogram-Mass/Meter-Hour
	× 98.0969	= Poise
	× 2.21	= Pound-Force-Second/Sq Meter
	× .00142	= Pound-Force-Second/Sq Inch
	× .197	= Pound-Force-Second/Sq Foot
	× .4/o238	= Pound-Force-Minute/Sq Inch
	× .00332	= Pound-Force-Minute/Sq Foot
	× .00216	= Pound-Mass/Centimeter-Second
	× .55	= Pound-Mass/Inch-Second
	× 6.6	= Pound-Mass/Foot-Second
	× .129	= Pound-Mass/Centimeter-Minute
	× 32.9	= Pound-Mass/Inch-Minute
	× 395.	= Pound-Mass/Foot-Minute
	× .769	= Pound-Mass/Centimeter-Hour
	× 1980.	= Pound-Mass/Inch-Hour
	× 23700.	= Pound-Mass/Foot-Hour
	× .00216	= Poundal-Second/Sq Centimeter
	× .55	= Poundal-Second/Sq Inch
	× 6.6	= Poundal-Second/Sq Foot
	× .129	= Poundal-Minutes/Sq Centimeter
	× 32.9	= Poundal-Minute/Sq Inch
	× 395.	= Poundal-Minute/Sq Foot
	× .769	= Poundal-Hour/Sq Centimeter
	× 1980.	= Poundal-Hour/Sq Inch
	× 23700.	= Poundal-Hour/Sq Foot
Kilogram/Hectoliter	× .01	= Gram/Cubic Centimeter
	× 10.	= Kilogram/Cubic Meter
	× .77689	= Pound/Bushel US Struck
	× .62428	= Pound/Cubic Foot
	× .0003613	= Pound/Cubic Inch
	× 16.8557	= Pound/Cubic Yard
	× .09711	= Pound/Gallon Dry US
	× .08345	= Pound/Gallon Liquid US
Kilogram/Hour	× 2.204622	= Pound/Hour
Kilogram/HP-Hour × Reaction Voltage	= .7465	× Gram/Ampere-Hour
Kilogram/HP-Year × Reaction Voltage	= 6543.8	× Gram/Ampere-Hour
Kilogram/Kilometer (kg/km)	× .391983	= Grain/Inch
	× .01	= Gram/Centimeter
	× .001	= Kilogram/Meter
	× .00067197	= Pound/Foot
	× .67197	= Pound/Kilofoot
	× 3.548	= Pound/Mile
	× .00201591	= Pound/Yard
Kilogram-Kilometer (kg-km)	× 9.297	= Btu
	× 2.3427	= Calorie Large
	× 980665(5/o)	= Dyne-Centimeter
	× 980665(5/o)	= Erg
	× 7233.	= Foot-Pound
	× 2342.70	= Gram-Calorie
	× 1(8/o).	= Gram-Centimeter
	× .003704	= Horsepower-Hour Metric
	× .00365303	= Horsepower-Hour US
	× 9806.65	= Joule
	× 2.3427	= Kilogram-Calorie
	× 1000.	= Kilogram-Meter
	× .00272407	= Kilowatt-Hour
	× 1.36989	= Mile-Pound
	× .002778	= Poncelet-Hour
	× 2.72407	= Watt-Hour
Kilogram-Kilometer/Minute	× .22222	= Horsepower Metric
	× .21936	= Horsepower US
	× .16344	= Kilowatt

CONVERSION FACTORS

Kilogram-Kilometer/Minute	× 163.44	= Watt
	× 163.44	= Watt
Kilogram-Mass	× °C	= Kilogram-Calorie
	× .10197	= Kilogram-Slug
	× 2.204	= Pound-Mass
	× .068521	= Slug
Kilogram-Mass/Centimeter-Second	× 1(5/o).	= Centipoise
	× 1000.	= Dyne-Second/Sq Centimeter
	× 1(7/o).	= Dyne-Second/Sq Meter
	× 6450.	= Dyne-Second/Sq Inch
	× 929030.	= Dyne-Second/Sq Foot
	× 1000.	= Gram-Mass/Centimeter-Second
	× 60000.	= Gram-Mass/Centimeter-Minute
	× 36(5/o).	= Gram-Mass/Centimeter-Hour
	× 100.	= Kilogram-Mass/Meter-Second
	× 6000.	= Kilogram-Mass/Meter-Minute
	× 360000.	= Kilogram-Mass/Meter-Hour
	× 10.194	= Kilogram-Force-Second/Sq Meter
	× 1000	= Poise
	× 22.47	= Pound-Force-Second/Sq Meter
	× .0145	= Pound-Force-Second/Sq Inch
	× 2.09	= Pound-Force-Second/Sq Foot
	× .000242	= Pound-Force-Minute/Sq Inch
	× .0348	= Pound-Force-Minute/Sq Foot
	× .02204	= Pound-Mass/Centimeter-Second
	× 5.6	= Pound-Mass/Inch-Second
	× 67.2043	= Pound-Mass/Foot-Second
	× 1.322	= Pound-Mass/Centimeter-Minute
	× 336.	= Pound-Mass/Inch-Minute
	× 4032.	= Pound-Mass/Foot-Minute
	× 7.837	= Pound-Mass/Centimeter-Hour
	× 20160.	= Pound-Mass/Inch-Hour
	× 241935.48	= Pound-Mass/Foot-Hour
	× .02204	= Poundal-Second/Sq Centimeter
	× 5.6	= Poundal-Second/Sq Inch
	× 67.2043	= Poundal-Second/Sq Foot
	× 1.322	= Poundal-Minute/Sq Centimeter
	× 336.	= Poundal-Minute/Sq Inch
	× 4032.	= Poundal-Minute/Sq Foot
	× 7.837	= Poundal-Hour/Sq Centimeter
	× 20160.	= Poundal-Hour/Sq Inch
	× 241935.48	= Poundal-Hour/Sq Foot
Kilogram-Mass/Meter-Hour	× .278	= Centipoise
	× .00278	= Dyne-Second/Sq Centimeter
	× 27.8	= Dyne-Second/Sq Meter
	× .0179	= Dyne-Second/Sq Inch
	× 2.58	= Dyne-Second/Sq Foot
	× .00278	= Gram-Mass/Centimeter-Second
	× .168	= Gram-Mass/Centimeter-Minute
	× 10.	= Gram-Mass/Centimeter-Hour
	× .5/o278	= Kilogram-Mass/Centimeter-Second
	× .3/o278	= Kilogram-Mass/Meter-Second
	× .0166	= Kilogram-Mass/Meter-Minute
	× .4/o283	= Kilogram-Force-Second/Sq Meter
	× .00278	= Poise
	× .4/o625	= Pound-Force-Second/Sq Meter
	× .7/o403	= Pound-Force-Second/Sq Inch
	× .5/o58	= Pound-Force-Second/Sq Foot
	× .9/o672	= Pound-Force-Minute/Sq Inch
	× .7/o967	= Pound-Force-Minute/Sq Foot
	× .7/o614	= Pound-Mass/Centimeter-Second
	× .4/o155	= Pound-Mass/Inch-Second
	× .000186	= Pound-Mass/Foot-Second
	× .5/o367	= Pound-Mass/Centimeter-Minute
	× .3/o934	= Pound-Mass/Inch-Minute
	× .0112	= Pound-Mass/Foot-Minute

Kiloram-Mass/Met

Kilogram-Mass/Me

Kilogram-Mass/Mete

Kiloram-Mass/Meter-Hour	× .4/o217	= Pound-Mass/Centimeter-Hour
	× .056	= Pound-Mass/Inch-Hour
	× .671	= Pound-Mass/Foot-Hour
	× .7/o614	= Poundal-Second/Sq Centimeter
	× .4/o155	= Poundal-Second/Sq Inch
	× .000186	= Poundal-Second/Sq Foot
	× .5/o367	= Poundal-Minute/Sq Centimeter
	× .3/o934	= Poundal-Minute/Sq Inch
	× .0112	= Poundal-Minute/Sq Foot
	× .4/o217	= Poundal-Hour/Sq Centimeter
	× .056	= Poundal-Hour/Sq Inch
	× .671	= Poundal-Hour/Sq Foot
Kilogram-Mass/Meter-Minute	× 16.6	= Centipoise
	× .166	= Dyne-Second/Sq Centimeter
	× 1660.	= Dyne-Second/Sq Meter
	× 1.07	= Dyne-Second/Sq Inch
	× 155.	= Dyne-Second/Sq Foot
	× .166	= Gram-Mass/Centimeter-Second
	× 10.	= Gram-Mass/Centimeter-Minute
	× 600.	= Gram-Mass/Centimeter-Hour
	× .000166	= Kilogram-Mass/Centimeter-Second
	× .0166	= Kilogram-Mass/Meter-Second
	× 60.	= Kilogram-Mass/Meter-Hour
	× .0017	= Kilogram-Force-Second/Sq Meter
	× .166	= Poise
	× .00374	= Pound-Force-Second/Sq Meter
	× .7/o242	= Pound-Force-Second/Sq Inch
	× .000348	= Pound-Force-Second/Sq Foot
	× .7/o404	= Pound-Force-Minute/Sq Inch
	× .5/o58	= Pound-Force-Minute/Sq Foot
	× .5/o368	= Pound-Mass/Centimeter-Second
	× .3/o933	= Pound-Mass/Inch-Second
	× .0112	= Pound-Mass/Foot-Second
	× .3/o22	= Pound-Mass/Centimeter-Minute
	× .056	= Pound-Mass/Inch-Minute
	× .67	= Pound-Mass/Foot-Minute
	× .0013	= Pound-Mass/Centimeter-Hour
	× 3.36	= Pound-Mass/Inch-Hour
	× 40.4	= Pound-Mass/Foot-Hour
Kilogram-Mass/Meter-Second	× .5/o368	= Poundal-Second/Sq Centimeter
	× .3/o933	= Poundal-Second/Sq Inch
	× .0112	= Poundal-Second/Sq Foot
	× .3/o22	= Poundal-Minute/Sq Centimeter
	× .056	= Poundal-Minute/Sq Inch
	× .67	= Poundal-Minute/Sq Foot
	× .0013	= Poundal-Hour/Sq Centimeter
	× 3.36	= Poundal-Hour/Sq Inch
	× 40.4	= Poundal-Hour/Sq Foot
	× 1000.	= Centipoise
	× 10.	= Dyne-Second/Sq Centimeter
	× 1(5/o).	= Dyne-Second/Sq Meter
	× 64.5	= Dyne-Second/Sq Inch
	× 9290.3	= Dyne-Second/Sq Foot
	× 10.	= Gram-Mass/Centimeter-Second
	× 600.	= Gram-Mass/Centimeter-Minute
	× 36000.	= Gram-Mass/Centimeter-Hour
	× .01	= Kilogram-Mass/Centimeter-Second
	× 60.	= Kilogram-Mass/Meter-Minute
	× 3600.	= Kilogram-Mass/Meter-Hour
	× .10194	= Kilogram-Force-Second/Sq Meter
	× 10.	= Poise
	× .2247	= Pound-Force-Second/Sq Meter
	× .3/o145	= Pound-Force-Second/Sq Inch
	× .0209	= Pound-Force-Second/Sq Foot
	× .5/o242	= Pound-Force-Minute/Sq Inch
	× .3/o348	= Pound-Force-Minute/Sq Foot

K — CONVERSION FACTORS

Kilogram-Mass/Meter-Second	× .3/o2204	= Pound-Mass/Centimeter-Second
	× .056	= Pound-Mass/Inch-Second
	× .672043	= Pound-Mass/Foot-Second
	× .01322	= Pound-Mass/Centimeter-Minute
	× 3.36	= Pound-Mass/Inch-Minute
	× 40.32	= Pound-Mass/Foot-Minute
	× .07837	= Pound-Mass/Centimeter-Hour
	× 201.6	= Pound-Mass/Inch-Hour
	× 2419.35	= Pound-Mass/Foot-Hour
	× .3/o2204	= Poundal-Second/Sq Centimeter
	× .056	= Poundal-Second/Sq Inch
	× .672043	= Poundal-Second/Sq Foot
	× .01322	= Poundal-Minute/Sq Centimeter
	× 3.36	= Poundal-Minute/Sq Inch
	× 40.32	= Poundal-Minute/Sq Foot
	× .07837	= Poundal-Hour/Sq Centimeter
	× 201.6	= Poundal-Hour/Sq Inch
	× 2419.35	= Poundal-Hour/Sq Foot
Kilogram-Meter	× .009295	= Btu
	× .00234270	= Calorie Large
	× 98066500.	= Dyne-Centimeter
	× 98066500.	= Erg
	× 7.233	= Foot-Pound
	× 2.34270	= Gram-Calorie
	× 1(5/o).	= Gram-Centimeter
	× .5/o37037	= Horsepower Metric-Hour
	× .013333	= Horsepower Metric-Second
	× .5/o365303	= Horsepower US-Hour
	× .01315	= Horsepower US-Second
	× 9.80665	= Joule
	× .00234270	= Kilocalorie
	× .00234270	= Kilogram-Calorie
	× .5/o272407	= Kilowatt-Hour
	× .009807	= Kilowatt-Second
	× .09678	= Liter-Atmosphere
	× 9.80665	= Newton-Meter
	× .5/o2778	= Poncelet-Hour
	× .00516426	= Pound-Chu
	× 7.233	= Pound-Foot
	× .00272407	= Watt-Hour
	× 9.80665	= Watt-Second
Kilogram/Meter	× 391.983	= Grain/Inch
	× 10.	= Gram/Centimeter
	× 391.983	= Gram/Inch
	× 1000.	= Kilogram/Kilometer
	× .671972	= Pound/Foot
	× .0560	= Pound/Inch
	× 3548.	= Pound/Mile
	× 2.01591	= Pound/Yard
	× 1.58393	= Ton Long/Mile
	× 1.	= Ton Metric/Kilometer
	× 1.77400	= Ton/Short Mile
Kilogram-Meter/Minute	× 7.233	= Foot-Pound/Minute
	× 2.22222	= Horsepower Metric
	× .00021936	= Horsepower US
	× .0001634	= Kilowatt
	× .16344	= Watt
Kilogram-Meter/Second (kg-m/s)	× .0092957	= Btu/Second
	× 433.980	= Foot-Pound/Minute
	× 7.233	= Foot-Pound/Second
	× 2.3427	= Gram-Calorie/Second
	× .013333	= Horsepower Metric
	× .01315	= Horsepower US
	× .00234270	= Kilogram-Calorie/Second
	× .009806	= Kilowatt
	× .01	= Poncelet

Kilogram-Meter Sc

Kilogram-Slug

Kilogram-Square C
Kilogram/Square C

Kilogram/Square M

Kilogram/Square Mi

Kilojoule
Kiloline

Kiloliter (Kl)

Kilolumen
Kilomaxwell/Square
Kilometer (km)

Kilogram-Meter Squared	× 9.80665	= Watt
	× 1(7/o).	= Gram-Centimeter Squared
	× 3416.9	= Pound-Inch Squared
	× 23.7285	= Pound-Foot Squared
	× .737507	= Slug-Foot Squared
Kilogram-Slug	× 9.80665	= Kilogram-Mass
	× 21.620	= Pound-Mass
	× .67196	= Slug
Kilogram-Square Centimeter	× .341716	= Pound-Square Inch
Kilogram/Square Centimeter	× .9678	= Atmosphere
	× 32.84	= Feet Water @ 0C
	× 28.96	= Inch Mercury @ 0C
	× 394.05	= Inch Water @ 15C
	× 10000.	= Kilogram/Square Meter
	× .9807	= Megabar
	× .9807	= Megadyne/Sq Centimeter
	× .7356	= Meter Hg @ 0C
	× 10.01	= Meter Water @ 15C
	× 1.0	= Metric Atmosphere
	× 2048.16	= Pound/Square Foot
	× 14.2234	= Pound/Square Inch
	× 1.024	= Ton Short/Square Foot
Kilogram/Square Meter	× .4/o967841	= Atmosphere 76cm:32F
	× 98.07	= Bar
	× .007356	= Centimeter Mercury 32F
	× 98.0665	= Dyne/Square Centimeter
	× 10.	= Gram/Square Centimeter
	× .0028959	= Inch Mercury @ 32F
	× .03937	= Inch Water @ 4C
	× 9.807	= Newton/Sq Meter
	× .2048155	= Pound/Square Foot
	× .00142233	= Pound/Square Inch
	× .3/o914362	= Ton Long/Square Foot
	× .0001024	= Ton Short/Square Foot
Kilogram/Square Millimeter	× 1.	= Abvolt/Second
	× 1000.	= Maxwell
	× 1422.34	= Pound/Square Inch
	× .634973	= Ton Long/Square Inch
	× .4/o1	= Volt-Second
Kilojoule	× 1000.	= Joule
Kiloline	× 1000.	= Line
	× 1000.	= Maxwell
	× .4/o1	= Weber
Kiloliter (Kl)	× 28.375	= Bushel US Struck
	× 35.31	= Cubic Feet
	× 61027.0515	= Cubic Inch
	× 1.	= Cubic Meter
	× 264.178	= Gallon Liquid US
	× 10.	= Hectoliter
	× 1000.	= Liter
	× 3.437	= Quarter
	× 1.	= Stere
Kilolumen	× 1000.	= Lumen
Kilomaxwell/Square Centimeter	× 1.0	= Kilogauss
Kilometer (km)	× 1(5/o).	= Centimeter
	× 49.7096	= Chain Gunter
	× 3280.83	= Feet US
	× 10.	= Hectometer
	× 39370.	= Inch US
	× 1000.	= Meter
	× .539593	= Mile Nautical US
	× .1328	= Mile Prussian
	× .6213699	= Mile Statute US
	× 1(9/o).	= Micron
	× 1(6/o).	= Millimeter
	× 1(12/o).	= Millimicron

K — CONVERSION FACTORS

Kilometer (km)	× 198.838	= Rod
	× .9374	= Verst
	× 1093.61114	= Yard
Kilometer/Hour	× 27.78	= Centimeter/Second
	× 54.68	= Feet US/Minute
	× .91134	= Feet US/Second
	× .53959	= Knot US
	× 16.67	= Meter/Minute
	× .2778	= Meter/Second
	× .62137	= Mile Statute US/Hour
	× .27777	= Mile Statute US/Second
Kilometer/Hour/Second	× 27.78	= Centimeter/Sec/Sec
	× .91134	= Feet US/Second/Second
	× .2778	= Meter/Sec/Sec
	× .6213699	= Mile Statute US/Hour/Sec
Kilo-Ounce Apoth-Troy/Year	× 3.54823	= Gram/Hour
	× .085157	= Kilogram/Day
	× .98563	= Milligram/Second
	× 2.73791	= Ounce Troy/Day
	× .11408	= Ounce Troy/Hour
	× .031104	= Ton Metric/Year
Kilopascal	× .010197	= Atmosphere (Kg ƒ/Sq Cm)
	× .009869	= Atmosphere (760 Torr)
	× .01	= Bar
	× 10.000	= Dynes/Sq Centimeter
	× 1(8/o).	= Dynes/Sq Meter
	× .296134	= Inch Mercury (60°F)
	× 4.014742	= Inch Water (4°C)
	× 4.018647	= Inch Water (60°F)
	× 7.500615	= Millimeter Mercury (0°C)
	× 1000.	= Newton/Sq Meter
	× .145038	= Pounds (ƒ)/Sq Inch
	× .044208	= Pounds (ƒ)/Sq Inch/Ft
	× 4.420751	= Pounds (ƒ)/Sq Inch/100 Ft
	× 20.885434	= Pounds (ƒ)/Sq Ft
Kilopound	× 1.0	= Kip
	× 1000.	= Pound
Kilopound/Square Inch (kpsi)	× .70307	= Kilogram/Square Millimeter
	× .001	= Pound/Square Inch
Kilovolt (kv)	× 1000.	= Volt
Kilovolt-Ampere (kva)	× Power Factor	= Kilowatt
Kilovolt-Ampere: Ac: Single Phase:	× 1000.	= Ampere × Volt
2 Ph-4 Wire	× 500.	= Ampere × Volt
3 Phase	× 578.	= Ampere × Volt
Kilovolt/Centimeter	× 1(11/o).	= Abvolt/Centimeter
	× 1(11/o).	= Microvolt/Centimeter
	× 1(8/o).	= Millivolt/Meter
	× 3.335	= Statvolt/Centimeter
	× 1000.	= Volt/Centimeter
	× 2540.005	= Volt/Inch
	× 2.540005	= Volt/Mil
	× 1(5/o).	= Volt/Meter
Kilowatt (kw)	× 3412.874	= Btu/Hour (Develops)
	× 2730.	= Btu/Hour (Effective)
	× 56.8	= Btu/Minute
	× .9478	= Btu/Second
	× 859.975	= Calorie Large/Hour
	× 1(10/o).	= Dyne-Centimeter/Second
	× 1(10/o).	= Erg/Second
	× 2655199.	= Foot-Pound/Hour
	× 44253.33	= Foot-Pound/Minute
	× 737.555	= Foot-Pound/Second
	× 238.88	= Gram-Calorie/Second
	× 1.35972	= Horsepower Metric
	× 1.34102	= Horsepower US
	× 1000.	= Joule/Second

Kilowatt (kw) ____

Kilowatt Current Squ
Kilowatt DC____

Kilowatt-Hour (kwhr

Kilowatt-Hour (Heat G
Kilowatt-Hour/Hr/Sqf
Kilowatt-Hour/Hr/Sqn
Kilowatt-Hour/Second
Kilowatt-Minute ____

Kilowatt-Second ____

Kin ____
Kine ____
Kinematic Viscosity Sq

Kip ____

Kilowatt (kw)	× 859.975	= Kilogram-Calorie/Hour
	× 14.33	= Kilogram-Calorie/Minute
	× .23888	= Kilogram-Calorie/Second
	× 367123.	= Kilogram-Meter/Hour
	× 101.97	= Kilogram-Meter/Second
	× 502.917	= Mile-Pound/Hour
	× 1.01979	= Poncelet
	× 1000.	= Watt
Kilowatt Current Squared (+) Kilovar Current Squared		= Total Current Squared
Kilowatt DC	× 1000.	= Ampere × Volt
	× .00134	= Horsepower × % Efficiency
Kilowatt-Hour (kwhr)	× 3412.874	= Btu
	× 860.	= Calorie IT
	× 6.2	= Cuft Manufactured Gas
	× 3.03	= Cuft Natural Gas
	× 36(12/o).	= Dyne-Centimeter
	× 1.0	= Energy Unit
	× 36(12/o).	= Erg
	× 2655199.	= Foot-Pound
	× 859975.	= Gram-Calorie
	× 367123(5/o).	= Gram-Centimeter
	× 1.35972	= Horsepower-Hour Metric
	× 1.34102	= Horsepower-Hour US
	× 4827.67	= Horsepower US-Second
	× 31862388.	= Inch-Pound
	× 36(5/o).	= Joule
	× 859.9	= Kilo-Calorie
	× 859.975	= Kilogram-Calorie
	× 367.123	= Kilogram-Kilometer
	× 367123.	= Kilogram-Meter
	× 60.	= Kilowatt-Minute
	× 35528.	= Liter-Atmosphere
	× 241(14/o).	= Mass Unit
	× 225(17/o).	= Mev
	× 502.917	= Mile-Pound
	× 1.01979	= Poncelet-Hour
	× .261	= Pound Anthracite
	× 1897.2	= Pound Chu/Minute
	× .545	= Pound Dry Wood
	× .1786	= Pound Fuel Oil
	× 3.518	= Pound Water Evap 212F
	× 22.76	= Pound Water Raised 62-212F
	× 1000.	= Watt-Hour
	× 36(5/o).	= Watt-Second
Kilowatt-Hour (Heat Generated)	× .4/o435	= Gram U235 Fissioned
Kilowatt-Hour/Hr/Sqft/In/°F Diff	× 1.176	= gm-cal/Sec/Sqcm/cm/°C Diff
Kilowatt-Hour/Hr/Sqm/cm/°C Diff	× .02389	= gm-cal/Sec/Sqcm/cm/°C Diff
Kilowatt-Hour/Second	× 3600.	= Kilowatt
Kilowatt-Minute	× 56.92	= Btu
	× 44256.7	= Foot-Pound
	× 60000.	= Joule
	× 14.3416	= Kilogram-Calorie
	× 6118.72	= Kilogram-Meter
	× 16.667	= Watt-Hour
Kilowatt-Second	× 737.6	= Foot-Pound
	× 239.02	= Gram-Calorie
	× 1000.	= Joule
	× .23902	= Kilogram-Calorie
	× 101.976	= Kilogram-Meter
	× .27777	= Watt-Hour
Kin	× 1.32	= Pound Avoir
Kine	× 1.	= Square Centimeter/Second
Kinematic Viscosity Sqft/Sec × Density Pound - Mass		= Abs Viscosity Pound - Force-Sec/Sqft
× Density Pound - Force		= Abs Viscosity Pound - Force-Sec/Sqft
Kip	× 1.0	= Kilopound
	× 1000.	= Pound

K — CONVERSION FACTORS

Klafter	× 2.0740	= Yard
Knot British Admiralty	× 6080.	= Feet US
Knot US	× 51.479	= Centimeter/Second
	× 6080.20	= Feet US/Hour
	× 101.337	= Feet/Minute
	× 1.68894	= Feet/Second
	× 1.8532486	= Kilometer/Hour
	× 30.887	= Meter/Minute
	× .51479	= Meter/Second US
	× 1.15155	= Mile/Hour
	× 1.0	= Mile Nautical/Hour
	× .0003198	= Mile/Second
Krypton: (kr): #36:83.7 Aw:		
Kvar	× 1.0	= Reactive Kilovolt-Ampere
Kwan	× 8.2673	= Pound Avoir
Lambert	× 1.0	= Brightness Unit
	× .3183	= Candle/Square Centimeter
	× 2.0538	= Candle/Square Inch
	× 3183.	= Candle/Square Meter
	× 929.	= Foot-Lambert
	× 1.0	= Lumen/Sq Centimeter
	× .3183	= Lumen/Sqcm/Steradian
	× 1000.	= Millilambert
Lanthanum: (La): #57.138.92 AW:		
Laths: 1×32" Wood: Each 1000 Laths	× 4.8	= Lather-Hr (12" Nail Center)
	× 4.5	= Lather-Hr(16" Nail Center)
	× 9.	= Pound Nail (12" Nail Center)
	× 7.	= Pound Nail (16" Nail Center)
	× 38.5	= Square Yard Covered
Number Bundles	× .48	= Lather-Hr(12" Nail Center)
	× .45	= Lather-Hr(16" Nail Center)
Square Yard Area	× .125	= Lather-Hr(12" Nail Center)
	× .117	= Lather-Hr(16" Nail Center)
	× 26.	= Number Laths
48" Wood: Each 1000 Laths	× 5.3	= Lather-Hr(12" Nail Center)
	× 5.	= Lather-Hr(16" Nail Center)
	× 14.	= Pound Nail (12" Nail Center)
	× 10.	= Pound Nail (16" Nail Center)
Number Bundles	× .53	= Lather-Hr(12" Nail Center)
	× .5	= Lather-Hr(16" Nail Center)
Sqyd Area × (15/inch to weather)	+ 5	= Number Laths
Laths: Wood Bundle	× 100.	= Number Laths
Laying Cinder or Concrete Block: Number	× .4/o8	= Man-Hour/Foot Wheeled
	× .006	= Man-Hour (Load or Unload)
	× .008	= Man-Hour/100' Wheeled
	× .038	= Mason or Helper-Hours
	× .021	= Mortarman-Hour
Lea: Pound	× 120.	= Yard (Cotton)
	× 300.	= Yard (Silk)
Lead: (Pb): #82:207.21 AW: Val. + 2: SpHt. .0297: 11.342 gm/cc: MP327.4C:BP1744C:		
Cubic Foot	× 709.6	= Pound (Spg 11.38) 68F
Linear Expansion: Inch	× 15.7	= Micro-Inch/Degree F
League, Land	× 24.	= Furlong
	× 4.8280	= Kilometer
	× 3.	= Mile Statute US
League, Marine	× 5.56	= Kilometer
	× 3.0	= Mile Nautical US
	× 3.45	= Mile Statute US
Leather: Specific Weight	= .035	= Pound/Cuin
Lever: Fulcrum to Force Distance × Force	= Weight	× Fulcrum to Wgt Distance
Li	× 1890.	= Foot US
	× .01260	= Inch US
Libra Argentina	× 1.0128	= Pound Avoir
Central America - Chile	× 1.014	= Pound Avoir
Cuba	× 1.014	= Pound Avoir

Libra Mexico
Libra Peru-Venezuela
Light Bulb: 25 @
50 @
60 Watt @
100 Watt @
25 Watt @
60 Watt @
100 Watt @
150 Watt @
200 Watt @
300 Watt @
Light: Centimeter/Secon
Lighting: Efficiency
Heat Comes Fr
Lightning Flash
Light Velocity in Vacuun
Light Year
Lignite: Pound
Lime: Barrel
Bushel
Hydrated
Quick:
Quick: Ground-Sh
Limestone: Building Sto
Crushed-1/2":
Loose:
Line
Line/Square Centimeter
Line/Square Inch
Link
Liter

Libra Mexico		× 1.01467	= Pound Avoir
Libra Peru-Venezuela		× 1.0143	= Pound Avoir
Light Bulb:	25 Watt @ 2 Feet	= 5.	= Footcandle
	50 Watt @ 2 Feet	= 13.	= Footcandle
	60 Watt @ 2 Feet	= 17.	= Footcandle
	100 Watt @ 2 Feet	= 32.	= Footcandle
	25 Watt @ .21 Amp	= 10.4	= Lumen/Watt
	60 Watt @ .50 Amp	= 13.9	= Lumen/Watt
	100 Watt @ .83 Amp	= 16.3	= Lumen/Watt
	150 Watt @ 1.25 Amp	= 17.2	= Lumen/Watt
	200 Watt @ 1.67 Amp	= 18.3	= Lumen/Watt
	300 Watt @ 2.50 Amp	= 19.6	= Lumen/Watt
Light: Centimeter/Second Squared		× Gram Mass	= Erg
Lighting: Efficiency			= Lumen/Watt
Heat Comes From		= 3 to 5	= Watt/Square Foot
Lightning Flash		= 20.	= Coulomb (Quantity)
		= 1(17/o).	= Erg(Energy)
Light Velocity in Vacuum: Second		× 299795.	= Kilometer
		× 186284.	= Mile Statute US
Light Year		× 95(11/o).	= Kilometer
		× 59(11/o).	= Mile Statute US
Lignite: Pound		× 8408.	= Btu
Lime: Barrel		× 320.	= Pound
Bushel		× 75.	= Pound
Hydrated	Cubic Foot	× 20 to 45	= Pound
Quick:	Cubic Foot	× 95.	= Pound Spg 1.5
Quick: Ground-Shaken	Cubic Foot	× 64.	= Pound
Limestone: Building Stone:	Cubic Foot	× 160.	= Pound
	Ton	× 12.5	= Cubic Feet
Crushed-1/2":	Cubic Yard	× 2360.	= Pound
	Ton	× .85	= Cubic Yard
Loose:	Cubic Foot	× 96.	= Pound Spg 2.6
Line		× .001	= Kiloline
		× .10/o333585	= Magnetic Flux Density Unit
		× 1.	= Maxwell
		× .99954	= Maxwell Int
		× .7/o1	= Volt-Second
		× .7/o1	= Weber
Line/Square Centimeter		× 1.	= Gauss
		× 1.0	= Gauss Absolute
		× .99966	= Gauss International
		× 1.0	= Electromagnetic Unit
		× .9/o33	= Electrostatic Unit
		× 6.452	= Line/Square Inch
		× .10/o333585	= Magnetic Flux Density Unit
		× 1.0	= Maxwell/Sqcm
		× 6.45163	= Maxwell/Sqin
		× .10/o333585	= Statweber
		× .7/o1	= Volt-Second/Sqcm
		× .7/o1	= Weber/Square Centimeter
		× .7/o645163	= Weber/Sqin
		× .0001	= Weber/Square Meter
Line/Square Inch		× .1550	= Gauss
		× .1550	= Line/Square Centimeter
		× .7/o1	= Volt-Second/Square Inch
		× .8/o155	= Weber/Square Centimeter
		× .7/o1	= Weber/Square Inch
		× .4/o155	= Weber/Square Meter
Link		× 20.11684	= Centimeter
		× .66	= Feet
		× 7.92	= Inch
		× .22	= Yard
Liter		× .02838	= Bushel US Struck
		× 100.	= Centiliter
		× 1000.028	= Cubic Centimeter
		× 1.000028	= Cubic Decimeter

L — CONVERSION FACTORS

Liter	× .035316	= Cubic Feet
	× 61.0270515	= Cubic Inch
	× .001000028	= Cubic Meter
	× .001308	= Cubic Yard
	× .1	= Decaliter
	× 10.	= Deciliter
	× 270.518	= Dram Fluid
	× .22702	= Gallon Dry US
	× .219975	= Gallon Liquid British
	× .264178	= Gallon Liquid US
	× 8.45369	= Gill
	× .01	= Hectoliter
	× 1.	= Kilogram Water 3.98C
	× 1000.	= Milliliter
	× 16231.1	= Minim
	× 33.8147	= Ounce Fluid US Apoth
	×-1.7598	= Pint Dry US
	× 2.11342	= Pint Liquid US
	× 2.202	= Pound Water at 62F
	× .9081	= Quart Dry US
	× 1.136	= Quart Liquid British
	× 1.05671	= Quart Liquid US
	× .001	= Ton Metric
Liter-Atmosphere	× .09604	= Btu
	× 74.74	= Foot-Pound
	× 24.218	= Gram-Calorie
	× .4/o3827	= Horsepower-Hour Metric
	× .4/o3775	= Horsepower-Hour US
	× 101.33	= Joule
	× .024218	= Kilocalorie
	× .024218	= Kilogram-Calorie
	× 10.333	= Kilogram-Meter
	× .4/o2815	= Kilowatt-Hour
Liter/Cubic Meter	× .00748	= Gallon Liquid US/Cuft
Liter/Second	× 2.1186	= Cubic Feet/Minute
	× 15.85068	= Gallon Liq US/Minute
Lithium: (Li)	= +1	= Valence
Lithium: (Li): #3:6.940 AW: SpHt.79: .534 gm/cc:		
Lithium Nucleus	+ Proton	= 2 Helium Nuclei
Little Rock Ark: Heating Load	= 2860.	= Degree-Day
Livre	× 1.102	= Pound (Belgium)
Logarithm: Common	× 2.3025851	= Naperian Logarithm
Computing: a × b	= log ab	= log a + log b
a/b	= log a/b	= log a − log b
a to nth Power	= Log a^n	= n log a
nth Root of a	= log $a^{1/n}$	= (1/n) log a
Naperian	× .43429	= Common Logarithm
Naperian Base	= 2.71828182	
Naperian Log	× Common Log	= 9.6377843
Modulus	= .43429	
Lumber: Fir: Ends Supported: In Wide × In Thick Squared × 2200		= In Long × Lb Uniform Safe Load
Fir-Pine Timber: Board-Foot	× 3.5	= Pound
Oak: Ends Supported: In Wide × In Thick Squared × 3800		= In Long × Lb Uniform Safe Load
Oak Timber: Board-Foot	× 5.5	= Pound
Standard Dressed:	= 1300.	= psi Maximum Bending Stress
Width Inch × Thick Inch × Ft Long	× .08333	= Board-Feet
1" and 2": Board-Feet	× 2.5	= Pound Weight
Lumen	× .07958	= Candlepower
	× .07958	= Candlepower Mean Spherical
	× 1.0	= Light Flux Unit
	× .00147	= Watt
Lumen/Square Centimeter	× 1.0	= Lambert
	× 1.0	= Phot
Lumen/Square Foot	× 1.	= Foot-Candle
	× 1.0	= Light Flux Density Unit
	× 1.076	= Millilambert

Lumen/Square Meter
Lumen/Sqcm/Steradian

Lutecium: (Lu): #71:17
Lux

Maas
Mach Number
Mac Value: Mist and D

Magnesium: (Mg): #12
Magnesium Bicarbona

Magnesium Carbonate

Magnesium Chloride

Magnesium: Cubic Fo
Magnesium Hydroxid

Magnesium: Linear E
Magnesium Nitrate
Magnesium Oxide
Magnesium Sulphate

Magnesium Zeolite
Manganese: (Mn): #
Cubic F
Linear
Manganese Dioxide
Manometer: Water:
Manzana
Marble: Building St

Crushed: C
Masonry: Linear Ex
Mass:
Of a Body
Unit

Lumen/Square Meter	× 1.0	= Lux
Lumen/Sqcm/Steradian	× 1.0	= Candle/Square Centimeter
	× 6.4516	= Candle/Square Inch
	× 3.1416	= Lambert
	× 3141.6	= Millilambert
Lutecium: (Lu): #71:174.99 AW:		
Lux	× .0929	= Footcandle
	× 1.0	= Lumen/Square Meter
	× 1.0	= Meter-Candle
	× .1	= Milliphot
	× .0001	= Phot
Maas	× 1.5	= Liter
Mach Number	× Sound Velocity (fps)	= fps (Object Speed)
Mac Value: Mist and Dust: Cd and Hg	= 0.1	= Milligram/Cubic Meter
Chromic Acid	= 0.1	= Milligram/Cubic Meter
Co-$CC1_4$-NH_4	= 100.	= Part/Million
Gasoline	= 1000.	= Part/Million
+10% Silica	= 1(6/o).	= Particles/Cubic Foot
-10% Silica	= 1(8/o).	= Particles/Cubic Foot
Toluol	= 150.	= Part/Million
Turpentine	= 200.	= Part/Million
Magnesium: (Mg): #12:24.32 AW: .25 SpHt: Val. + 2:1.74 gm/cc:		
Magnesium Bicarbonate	× 4.12	= Calcium Carbonate
	× .684	= Calcium Carbonate
	= 73.17	= Equivalent Weight
	= 146.34	= Molecular Weight
+ Calcium Hydroxide	= Calcium Carbonate	+ Magnesium Hydroxide
+ Sodium Zeolite	= Sodium Bicarbonate	+ Magnesium Zeolite
Magnesium Carbonate	× 1.19	= Calcium Carbonate
	= 42.16	= Equivalent Weight
	= 84.32	= Molecular Weight
	× 1.26	= Sodium Carbonate
Magnesium Chloride	× 1.05	= Calcium Carbonate
+ Sodium Zeolite	= Sodium Chloride	+ Magnesium Zeolite
Magnesium: Cubic Foot	× 109.	= Pound Spg 1.75
Magnesium Hydroxide	× 1.72	= Calcium Carbonate
	= 29.17	= Equivalent Weight
	= 58.34	= Molecular Weight
Magnesium: Linear Expansion: Inch	× 14.3	= Micro-Inch/Degree F
Magnesium Nitrate	× .674	= Calcium Carbonate
Magnesium Oxide	× 2.48	= Calcium Carbonate
Magnesium Sulphate	× .831	= Calcium Carbonate
	= 60.17	= Equivalent Weight
	= 120.38	= Molecular Weight
	× 1.18	= Sodium Sulphate
+ Sodium Zeolite	= Sodium Sulfate	+ Magnesium Zeolite
Magnesium Zeolite + Sodium Chloride	= Sodium Zeolite	+ Magnesium Chloride
Manganese: (Mn): #25:54.93 AW: .11 SpHt: Val. +2: 7.44 gm/cc:		
Cubic Foot	× 500.	= Pound
Linear Expansion: Inch	× 12.8	= Micro-Inch/Degree F
Manganese Dioxide + Hydrochloric Acid	= Manganese Chloride	+ Water + Chlorine
Manometer: Water: Sq Root Height Inch	× 4000.	= Cuft/Min (Air Flow in Pipe)
Manzana	× 1.742	= Acre
Marble: Building Stone: Cubic Foot	× 168.	= Pound
Ton	× 11.9	= Cubic Feet
Crushed: Cubic Foot	× 90.	= Pound Spg 2.6
Masonry: Linear Expansion	= 2.5 to 5.0	= Parts/Million/°F
Mass:	× Acceleration	= Force
Of a Body	× 32.17	= Weight
Unit	× .00149	= Erg
	× .9/o110	= Foot-Pound
	× .23/o16604	= Gram
	× .10/o356	= Gram-Calorie
	× .16/o556	= Horsepower-Hour
	× .16/o415	= Kilowatt-Hour

M

M — CONVERSION FACTORS

Mass: Unit	× .0931	= Mev
Mass	× Light Velocity Squared	= Energy (Einstein)
Maximum Allowable Concentration	= 1.0	= Mac Value
Maxwell	× .001	= Kiloline
	× 1.	= Line
	× .10/o333585	= Magnetic Flux Unit
	× .99954	= Maxwell International
	× .7/o1	= Volt-Second
	× .7/o1	= Weber
Maxwell International	× 1.00046	= Maxwell
Maxwell/Square Centimeter	× 1.	= Gauss
	× 1.0	= Gauss Absolute
	× .99966	= Gauss International
	× 1.0	= Electromagnetic Unit
	× .9/o33	= Electrostatic Unit
	× 1.0	= Line/Sqcm
	× 6.45163	= Line/Sqin
	× .10/o333585	= Magnetic Flux Density Unit
	× 6.452	= Maxwell/Square Inch
	= .10/o333585	= Statweber
	× .7/o1	= Volt-Second/Sqcm
	× .7/o1	= Weber/Sqcm
	× .7/o645163	= Weber/Sqin
	= .0001	= Weber/Sqm
mB	× 1000000.	= Btu
Mb	× 1000.	= Btu
Mbh	× 1000.	= Btu/Hour
Mean Calorie	× .003969	= Btu
	× 1.001	= Calorie IT
	× 99.366	= Foot-Poundal
	× 3.0884	= Foot-Pound-Force
	× 1.00024	= Gram-Calorie
	× 4.1873	= Joule
	× .00100024	= Kilogram-Calorie
	× .426858	= Kilogram-Force-Meter
	× .5/o116279	= Kilowatt-Hour
	× .0099991	= Ostwald Calorie
	× .00220499	= Pound-Calorie

Mean Proportional = Sq Root of (First Number × Second Number)

Mean Spherical Candlepower	× 12.57	= Lumen
Mechanical Efficiency	× HP Indicated	= Brake Horsepower
Mechanics	= 3.	= Dimension Systems

Mechanics = Length-Time + Velocity or Speed - Mass-Force-Pressure-Momentum-Energy-Power-Torque-Gravity Constant

Mega	= 1(6/o). = 10^6	= One Million
Megabar	× .9869	= Atmosphere
	× 1.0197	= Atmosphere Metric
	× 1(6/o).	= Bar
	× 33.49	= Feet Water 59F
	× 29.53	= Inch Mercury, 32F
	× 401.8	= Inch Water 59F
	× 1.0197	= Kilogram/Sq Centimeter
	× 10197.	= Kilogram/Sq Meter
	× 1.0	= Megadyne/Sq Centimeter
	× .7501	= Meter Mercury 32F
	× 10.21	= Meter Water 59F
	× 2088.55	= Pound/Square Foot
	× 14.50	= Pound/Square Inch
	× .06895	= Square Inch/Pound
	× 1.044	= Ton Short/Square Foot
Megabarye	× .6/o986923	= Atmosphere 32F-76cm
	× 1.0	= Bar
	× 1(6/o).	= Barye
	× .4/o75006	= Centimeter Mercury 32F
	× 1(6/o).	= Dyne/Square Centimeter
	× 1.013	= Hectopieze

Megabarye	× .4/o2953	= Inch Mercury 32F
	× .0004015	= Inch Water 39.2F
	× .01019716	= Kilogram/Square Meter
	× .1	= Newton
	× .002089	= Pound/Square Foot
	× .5/o145	= Pound/Square Inch
	× .5/o1044	= Ton Short/Square Foot
Megadyne	× 1(6/o).	= Dyne
	× 1.02	= Kilogram-Force
	× 2.248	= Pound-Force
Megadyne/Square Centimeter	× .9869	= Atmosphere
	× 1.0197	= Atmosphere Metric
	× 1(6/o).	= Bar
	× 33.49	= Feet Water 59F
	× 29.53	= Inch Mercury 32F
	× 401.8	= Inch Water 59F
	× 1.0197	= Kilogram/Sq Centimeter
	× 10197.	= Kilogram/Square Meter
	× 1.0	= Megabar
	× .7501	= Meter Mercury 32F
	× 10.21	= Meter Water 59F
	× 2088.55	= Pound/Square Foot
	× 14.50	= Pound/Square Inch
	× .06895	= Sqin/Pound
	× 1.044	= Ton Short/Square Foot
Magameter	× 1(6/o).	= Meter
	× 1093611.14	= Yard US
Megmho/Cubic Centimeter	× 2.540	= Megmho/Cubic Inch
	× .1662	= Mho/Mil-Foot
Megmho/Cubic Inch	× .3937	= Megmho/Cubic Centimeter
	× .06542	= Mho/Mil-Foot
Megohm	× 1(15/o).	= Abohm
	× 1(12/o).	= Microhm
	× 1(6/o).	= Ohm
	× .5/o1112	= Statohm
Mercuric: Hg:	= + 2	= Valence
Mercurous: Hg:	= + 1	= Valence
Mercury: (Hg): #80:200.61 AW: SpHt. .0332:13.546 gm cc:		
Density: Pound/Cubic Inch	× Inch Hgt Diff	= psi Gage Pressure
Linear Expansion: Inch	× 10.0	= Micro-Inch/Degree F
Spg 13.5951: Boiling Point	= 356.7	= Degree C (Thermodynamic)
	= 356.57	= Degree C (International)
Cubic Foot	× 848.67	= Pound Weight 39.1F
Cubic Inch	× .491	= Pound
Mercury: (Spg 13.56 @ 32F): Centimeter	× .0131579	= Atmosphere 76cm 32F
	× 13332.237	= Dyne/Square Centimeter
	× .44604	= Feet Water 39.2F
	× 13.59508	= Gram/Square Centimeter
	× .3937	= Inch Mercury 32F
	× 5.354	= Inch Water 4C
	× 135.9508	= Kilogram/Square Meter
	× .001333	= Newton/Square Meter
	× 27.8450	= Pound/Square Foot
	× .193368	= Pound/Square Inch
	× .01392	= Ton Short/Square Foot
Mercury: (Spg 13.56 @ 32F): Inch	× .033421	= Atmosphere 76cm 32F
	× .03453	= Atmosphere Metric
	× 28.5	= Bar
	× 2.540	= Centimeter Hg 32F
	× 33864.	= Dyne/Square Centimeter
	× 1.133	= Feet Water 39.2F
	× 1.134	= Feet Water 15C
	× 34.532	= Gram/Square Centimeter
	× 13.6	= Inch Water 4C
	× 13.61	= Inch Water 15C
	× .03453	= Kilogram/Square Centimeter

CONVERSION FACTORS

Mercury: (Spg 13.56 @ 32F): Inch	× 345.32	= Kilogram/Square Meter
	× .03386	= Megabar
	× .03386	= Megadyne/Square Centimeter
	× .02540	= Meter Mercury 32F
	× .3456	= Meter Water 15C
	× .003386	= Newton
	× 70.7256	= Pound/Square Foot
	× .49115	= Pound/Square Inch
	× .03536	= Ton Short/Square Foot
Mercury: (Spg 13.56 @ 62F): Inch	× 13.58	= Inch Water 62F
	× 7.847	= Ounce/Square Inch
Mercury: (Spg 13.56 @ 70F): Inch	× 1.1309	= Feet Water
	× 16.4523	= Inch Red Oil 70F
	× 13.5707	= Inch Water
	× 7.8285	= Ounce/Square Inch
	× .4895	= Pound/Square Inch
Mercury: (Spg 13.56 @ 32F): Meter	× 1.316	= Atmosphere
	× 1.3595	= Atmosphere Metric
	× 44.64	= Foot Water 15C
	× 39.37	= Inch Mercury 32F
	× 535.7	= Inch of Water 15C
	× 1.3595	= Kilogram/Square Centimeter
	× 1.3332	= Megabar
	× 1.3332	= Megadyne/Square Centimeter
	× 13.61	= Meter Water 15C
	× 2784.5	= Pound/Square Foot
	× 19.34	= Pound/Square Inch
	× 1.392	= Ton Short/Square Foot
Mercury: (Spg 13.56 @ 32F): Micron	× .5/o131579	= Atmosphere 76cm 32F
	× 1.333224	= Dyne/Square Centimeter
	× .0013595	= Gram/Square Centimeter
Metal: Chemical Activity: Li, K, Na, Ca, Mg, Al, Mn, Zn, Cr, Fe, Cd, Co, Ni, Sn, Pb, (H), Cu, Sb, Bi, As, Hg, Ag		
Meter	× 1(10/o).	= Angstrom
	× 100.	= Centimeter
	× .0497096	= Chain Gunter
	× .1	= Decameter
	× 10.	= Decimeter
	× 3.18620	= Feet Prussian
	× 3.280833	= Feet US
	× .01	= Hectometer
	× 39.370113	= Inch British Standard
	× 39.3700000	= Inch US Standard
	× .001	= Kilometer
	× 443.84	= Lignes Paris
	× 4.970960	= Link Gunter
	× 1(6/o).	= Micron
	× 1(9/o).	= Millimicron
	× .0005396	= Mile US Nautical
	× .0006214	= Mile US Statute
	× 1000.	= Millimeter
	× .198838	= Rod
	× 1.09361114	= Yard US
Meter-Candle	= 1.0	= Lux
Metering Water w/Orifice Plate: Sq Root Height Inch	× 2.315	= Feet/Second
Meter/Minute	× 1.667	= Centimeter/Second
	× 3.281	= Feet/Minute
	× .05468	= Feet/Second
	× .06	= Kilometer/Hour
	× .03238	= Knot US
	× .01667	= Meter/Second
	× .03728	= Mile Statute US/Hour
Meter/Second	× 100.	= Centimeter/Second
	× 196.85	= Feet/Minute
	× 3.281	= Feet/Second
	× 3.6	= Kilometer/Hour
	× .06	= Kilometer/Minute

Meter/Second	× .1	= Kine
	× 1.943	= Knot US
	× 60.	= Meter/Minute
	× .0062137	= Mile/Second
	× 2.23693	= Mile US Statute/Hour
Meter/Second/Second	× 3.281	= Feet/Second/Second
	× 3.6	= Kilometer/Hour/Second
	× 2.23693	= Mile US/Hour/Second
Methane	+ Oxygen	= Carbon Dioxide + Water
Methane: 30Hg60F: Gas: Boiling Point	= 201.19	= Degree R
Critical Pressure	= 673.	= psi
Critical Temperature	= 343.19	= Degree R
Cuft	× 1013.	= Btu Gross Combustion Heat
	× 9.55	= Cuft Air to Burn
	× .04245	= Pound
Cuft Mixed Air-Gas	× 94.94	= Btu Gross Combustion Heat
Density: Cuft	× .0422	= Pound
Flame Propagation 1" Tube	= 2.17	= fps Max Rate
Flame Temperature	= 3630.	= Degree F Max
Inflammability	= 14.	= % Gas Upper Limit
	= 5.3	= % Gas Lower Limit
Melting Point	= 430.04	= Degree R
Molecular Weight	= 16.032	
% @ Max Flame Propagation Rate	= 9.96	
Pound	× 23861	= Btu
	× 245.	= Btu Heat Vaporization @ BP
	× 17.274	= Pound Air for Combustion
Specific Gravity	= .5544	(Air = 1)
Specific Heat: Cuft	× .0251	= Btu
Pound	× .526	= Btu
Ratio	= 1.303	
Methane: 30Hg60F: Liquid: Degree API	= 340	
Gallon	× 59.17	= Cuft
	× 2.5	= Pound
Pound	× 23.66	= Cuft
Specify Gravity	= .3	
Mev	× .5/o16	= Erg
	× 1(6/o).	= Electron Volt
	× .12/o118	= Foot-Pound
	× .13/o383	= Gram-Calorie
	× .19/o596	= Horsepower-Hour
	× .19/o445	= Kilowatt-Hour
	× .0017	= Mass Unit
Mho	× Ohm	= 1.0
	× .5/o1	= Megmho
	× 1(6/o).	= Micromho
Mho (B)	× 1.0	= Susceptance Unit
Susceptance × Ohm Squared Impedance	× 1.	= Ohm Reactance
Mho (G)	× 1.0	= Conductance Unit
Conductance × Ohm Squared Impedance	× 1.	= Ohm Resistance
Mho (Y)	× 1.0	= Admittance Unit
Admittance	× Volt	= Ampere
Mho/Centimeter Cube	× 1.0	= Conductivity Unit
Mho/Meter	× .10/o1	= Abmho/Centimeter
	× .10/o1	= Abmho/Centimeter Cube
	× 1.0	= Mho/Meter Cube
	× .8/o1662	= Mho-Mil-Foot
	× .8/o1662	= Mho/Mil-Foot
	× .7/o1	= Micromho/Centimeter
	× .7/o1	= Micromho/Centimeter Cube
	× .7/o254	= Micromho/Inch
	× .7/o254	= Micromho/Inch Cube
Mho/Meter × gm/cc	= .5/o1	× Mho/Meter-Gram
	= .5/o1	× Mho-Meter-Gram
Mho/Meter Cube	× 1.0	= Mho/Meter
Mho/Meter-Gram	× 1.0	= Mho-Meter-Gram

M — CONVERSION FACTORS

Mho-Meter-Gram × gm/cc	× .4/o1	= Abmho/Centimeter
	× .4/o1	= Abmho/Centimeter Cube
	× .001662	= Mho/Mil-Foot
	× .001662	= Mho-Mil-Foot
	× 1(6/o).	= Mho/Meter
	× 1(6/o).	= Mho/Meter Cube
	× 1.0	= Mho/Meter-Gram
	× .01	= Micromho/Centimeter
	× .01	= Micromho/Centimeter Cube
	× .0254	= Micromho/Inch
	× .0254	= Micromho/Inch Cube
Mho/Mil-Foot	× 1.	= Conductivity Unit
	× 1.0	= Mho-Mil-Foot
Mho-Mil-Foot	× .006015	= Abmho/Centimeter
	× .006015	= Abmho/Centimeter Cube
	× 6015(5/o).	= Mho/Meter
	× 6015(5/o).	= Mho/Meter Cube
	× 1.0	= Mho/Mil-Foot
	× 6.015	= Micromho/Centimeter
	× 6.015	= Micromho/Centimeter Cube
	× 15.28	= Micromho/Inch
	× 15.28	= Micromho/Inch Cube
× gm/cc	= 601.5	× Mho-Meter-Gram
	= 601.5	× Mho/Meter-Gram
Micro	= .5/o1 = 10^{-6}	= One Millionth
Microamp	× 624(10/o).	= Unit Charge/Second
Microfarad	× .14/o1	= Abfarad
	× .5/o1	= Farad
	× 898800.	= Statfarad
Microgram	× 1.0	= Gamma
	× .5/o1	= Gram
	× .001	= Milligram
Microgram (B_1)	× 1.0	= Gamma
	× .33333	= International Unit
	× .001	= Milligram
	× .66666	= Sherman Unit
Microgram (G)	× .001	= Milligram
	× .4	= Sherman-Bourquin Unit
Microhenry	× 1000.	× Abhenry
	× .5/o1	= Henry
	× .001	= Millihenry
	× .17/o1112	= Stathenry
Micromho	× .6	= ppm Impurity-Steam-77F
Microhm	× 1000.	= Abohm
	× .11/o1	= Megohm
	× .5/o1	= Ohm
	× .17/o1112	= Statohm
Microhm-Centimeter	× 1000.	= Abohm-Centimeter
	× 1000.	= Abohm/Centimeter Cube
	× 6.0153	= Circular Mil-Ohm/Foot
	× 1.0	= Microhm/Centimeter Cube
	× .3937	= Microhm-Inch
	× .3937	= Microhm/Inch Cube
	× .7/o1	= Ohm-Meter
	× .7/o1	= Ohm/Meter
	× 6.015	= Ohm-Mil-Foot
	× 6.015	= Ohm/Mil-Foot
	× 1.0	= Volume Resistivity Unit
Microhm-Centimeter × gm/cc	× .01	= Ohm-Meter-Gram
	× .01	= Ohm/Meter-Gram
Microhm/Centimeter Cube	× 1.0	= Microhm-Centimeter
Microhm-Inch	× 2540.	= Abohm-Centimeter
	× 2540.	= Abohm/Centimeter Cube
	× 15.2789	= Circular Mil-Ohm/Foot
	× 2.54	= Microhm-Centimeter
	× 2.54	= Microhm/Centimeter Cube

Microhm-Inch

Microhm-Inch × gr

Microhm/Inch Cube

Micro-Inch

Microliter

Micromho/Centimet

Micromho/Centimete

Micromho/Centimete

Micromho/Inch

Micromho/Inch × gm

Micromho/ Cube

Micromicr

Micromicrofarad Minu

Micromicron

Micron

Microvolt

Microvolt/Mete

Mil

Microhm-Inch	× 1.0	= Microhm/Inch Cube
	× .7/o254	= Ohm-Meter
	× .7/o254	= Ohm/Meter
	× 15.2789	= Ohm-Mil-Foot
	× 15.2789	= Ohm/Mil-Foot
Microhm-Inch × gm/cc	× .0254	= Ohm-Meter-Gram
	× .0254	= Ohm/Meter-Gram
Microhm/Inch Cube	× 2.54	= Microhm/Centimeter Cube
	× 1.0	= Microhm-Inch
	× 15.28	= Ohm/Mil-Foot
Micro-Inch	× .5/o1	= Inch
	× .4/o254	= Millimeter
Microliter	× .5/o1	= Liter
Micromho/Centimeter	× .001	= Abmho/Centimeter
	× .001	= Abmho/Centimeter Cube
	× 1(8/o).	= Mho/Meter
	× 1(8/o).	= Mho/Meter Cube
	× .1662	= Mho/Mil-Foot
	× .1662	= Mho-Mil-Foot
	× 1.0	= Micromho/Centimeter Cube
	× 2.54	= Micromho/Inch
	× 2.54	= Micromho/Inch Cube
Micromho/Centimeter × gm/cc	= 100.	× Mho/Meter
	= 100.	× Mho-Meter Cube
Micromho/Centimeter Cube	× 1.0	= Micromho Centimeter
Micromho/Inch	× .3/o3937	= Abmho/Centimeter
	× .3/o3937	= Abmho/Centimeter Cube
	× 3937(4/o).	= Mho/Meter
	× 3937(4/o).	= Mho/Meter Cube
	× .06524	= Mho/Mil-Foot
	× .3937	= Micromho/Centimeter
	× .3937	= Micromho/Centimeter Cube
	× 1.0	= Micromho/Inch Cube
Micromho/Inch × gm/cc	= 39.37	× Mho/Meter
	= 39.37	× Mho/Meter Cube
Micromho/Inch Cube	× 1.0	= Micromho/Inch
Micromicro	= .11/o1 = 10^{-12}	= One Trillionth
Micromicrofarad Minus 12	= 67.5	× Oil Dielectric Constant
Micromicron	× .5/o1	= Micron
	× .9/o1	= Millimeter
	× .001	= Millimicron
Micron	× 10000.	= Angstrom
	× .0001	= Centimeter
	× .5/o32808	= Feet
	× .4/o3937	= Inch
	× .8/o1	= Kilometer
	× .5/o1	= Meter
	× 1(6/o).	= Micromicron
	× .001	= Millimeter
	× 1000.	= Millimicron
	× 39.37	= Millionth of Inch
	× .5/o10936	= Yard
Microvolt	× 100.	= Abvolt
	× .001	= Millivolt
	× .8/o3335	= Statvolt
	× .5/o1	= Volt
Microvolt/Meter	× 1.0	= Abvolt/Centimeter
	× .10/o1	= Kilovolt/Centimeter
	× .001	= Millivolt/Meter
	× .10/o3335	= Statvolt/Centimeter
	× .7/o1	= Volt/Centimeter
	× .7/o254	= Volt/Inch
	× .10/o254	= Volt/Mil
	× .5/o1	= Volt/Meter
Mil	× .00254000508	= Centimeter
	× .4/o8333	= Feet US

M — CONVERSION FACTORS

Mil	× .001	= Inch
	× 25.4001	= Microns
	× .0254000508	= Millimeter
Mil (Gunnery Angle Unit)	× .05625	= Degree
Mil (Swedish Mile)	× 6000.	= Famm
	× 10.6884	= Kilometer
	× 6.6415	= Mile Statute US
Mile/Hour	× 44.704	= Centimeter/Second
	× 88.	= Feet/Minute
	× 1.46666	= Feet/Second
	× 1.609347	= Kilometer/Hour
	× 26.82	= Meter/Minute
	× .4470	= Meter/Second
	× .01666	= Mile/Minute
	× .86839	= Mile Nautical US/Hour
	× 1.0	= Mile Statute US/Hour
Mile/Hour/Second	× 44.704	= Centimeter/Sec/Sec
	× 1.46667	= Feet/Second/Second
	× 1.60935	= Kilometer/Hour/Second
	× .44704	= Meter/Second/Second
	× 1.0	= Mile Statute US/Hr/Sec
Mile/Minute	× 5280.	= Feet/Minute
	× 316800.	= Feet/Hour
	× 88.	= Feet/Second
	× 60.	= Mile/Hour
	× 1.0	= Mile Statute US/Minute
Mile Nautical British	× 6080.	= Feet
	× 1853.19	= Meter
	× 1.15152	= Mile Statute US
Mile Nautical US	× 7.5	= Cable Length
	× 92.1243	= Chain Gunter
	× 6080.204	= Feet US
	× 6080.	= Feet British
	× 72962.5	= Inch
	× 1.853248	= Kilometer
	× .333	= League
	× 1853.248	= Meter
	× 1.0	= Mile Geographical
	× 1.15155	= Mile Statute US
	× 1.	= Minute Longitude @ Equator
	× 368.497	= Rod
	× 1.0	= Sea Mile
	× 2026.73	= Yard
Mile Nautical US/Hour	× 1.0	= Knot US
Mile-Pound	× 5280.	= Foot-Pound
	× .00266666	= Horsepower-Hour US
	× .00270366	= Horsepower-Hour Metric
	× .0019884	= Kilowatt-Hour
Mile-Pound/Hour	× 88.	= Foot-Pound/Minute
	× .002667	= Horsepower US
	× 12.177	= Kilogram-Meter/Minute
	× 1.9874	= Watt
Mile-Pound/Minute	× 5280.	= Foot-Pound/Minute
	× .16192	= Horsepower Metric
	× .159	= Horsepower US
	× .119248	= Kilowatt
	× 119.248	= Watt
Mile Statute US	× 160934.72	= Centimeter
	× 52.8	= Chain Engineer
	× 80.	= Chain Gunter
	× 5280.	= Feet
	× 8.	= Furlong
	× 63360.	= Inch
	× 1.6093472	= Kilometer
	× 1.0	= Land Mile
	× 8000.	= Link

Mile Statute US	× 1609.3472	= Meter
	× .86839	= Mile Nautical US
	× 1.0	= Mile US
	× 320.	= Rod
	× 1900.8	= Vara
	× 1760.	= Yard
	× 1.1594	= Mile US
Milla	= .001 = 10^{-3}	= One-Thousandth
Milli	× 1.	= Billion US
Milliard	× 1.0	= Milligram Radium
Millicurie	× 46362.	= Count/Minute
Millicurie at 12"	× .15333	= Milliroentgen/Minute
	× .0092	= Roentgen/Hour
Millier	× 1(6/o).	= Gram
	× 1000.	= Kilogram
	× 2204.6	= Pound Avoir
	× .9842	= Ton Long US
	× 1.0	= Ton Metric
	× 1.1023	= Ton Short US
Milligram (mg)	× .000257206	= Dram Apoth
	× .000564383	= Dram Avoir
	× 1000.	= Gamma
	× .015432356	= Grain Troy-Apoth-Avoir
	× .001	= Gram
	× .5/o1	= Kilogram
	× 1000.	= Microgram
	× .4/o32151	= Ounce Apoth
	× .4/o352739	= Ounce Avoir
	× .000643015	= Pennyweight
	× .5/o2679	= Pound Apoth-Troy
	× .5/o2205	= Pound Avoir
	× .000771618	= Scruple
Milligram (B_1)	× 333.33	= International Unit
	× 1000.	= Microgram
	× 666.66	= Sherman Unit
Milligram (C)	× 20.	= International Unit
	× 2.	= Sherman Unit
	× 20.	= USPX1 Unit
Milligram (G)	× 1000.	= Gamma
	× 1000.	= Microgram
	× 400.	= Sherman-Bourquin Unit
Milligram Gold (Assay Extracted)	× 1.0	= Ounce Troy/Ton of Ore
Milligram Radium	× 1.0	= Millicurie
Milligram Radium at 12"	× 46362.	= Count/Minute
Milligram/Second	× 3.6	= Gram/Hour
	× .0864	= Kilogram/Day
	× 1.01458	= Kilo-Ounce Troy/Year
	× .12699	= Ounce Avoir/Hour
	× .11574	= Ounce Troy/Hour
	× 2.7777	= Ounce Troy/Day
	× .19048	= Pound Avoir/Day
	× .0079367	= Pound Avoir/Hour
	× .031557	= Ton Metric/Year
	× .034786	= Ton Short Avoir/Year
Millihenry	× 1(6/o).	= Abhenry
	× .001	= Henry
	× 1000.	= Microhenry
	× .14/o111279	= Stathenry
Millilambert	× .0003183	= Candle/Square Centimeter
	× .0020538	= Candle/Square Inch
	× .929	= Foot-Lambert
	× .001	= Lambert
	× .929	= Lumen/Square Foot
	× .003183	= Lumen/Sqcm/Steradian
Milliliter	× 1.000028	= Cubic Centimeter
	× .06102705	= Cubic Inch

M — CONVERSION FACTORS

Milliliter	× .2705179	= Dram Apoth
	× .000264178	= Gallon Liquid US
	× .001	= Liter
	× 16.2311	= Minim
	× .0338147	= Ounce Fluid US
	× .0018	= Pint
	× .00105671	= Quart Liquid US
Millimeter	× 1(7/o).	= Angstrom
	× .4/o497	= Chain Gunter
	× .10	= Decimeter
	× .003280839	= Foot
	× .039370078	= Inch
	× .001	= Meter
	× 1000.	= Micron
	× .6/o54	= Mile Nautical
	× .6/o62	= Mile Statute US
	× 39.37	= Mil
	× 1(6/o).	= Millimicron
	× .3/o199	= Rod
	× .00109361114	= Yard US
	× 2.51968	= 64ths of an Inch
Millimeter Mercury (0°C)	× .133322	= Kilopascal
Millimicro	= .8/o1 = 10^{-9}	= One-Billionth
Millimicron	× .6/o1	= Centimeter
	× .8/o32808	= Feet
	× .7/o3937	= Inch
	× .11/o1	= Kilometer
	× .8/o1	= Meter
	× .001	= Micron
	× .5/o1	= Millimeter
	× .8/o10936	= Yard
Million	× Million	= Billion (British-German)
	× 1000.	= Milliard
Milliphot	× .929	= Foot-Candle
	× 10.	= Lux
	× .001	= Phot
Millivolt	× 1(5/o).	= Abvolt
	× 1000.	= Microvolt
	× .5/o3335	= Statvolt
	× .001	= Volt
Millivolt/Meter	× 1000.	= Abvolt/Centimeter
	× .7/o1	= Kilovolt/Centimeter
	× 1000.	= Microvolt/Meter
	× .7/o3335	= Statvolt/Centimeter
	× .4/o1	= Volt/Centimeter
	× .4/o254	= Volt/Inch
	× .001	= Volt/Meter
	× .7/o254	= Volt/Mil
Mina	× .95	= Pound Avoir
Miners-Inch	× 5 to 10	= Acre (Will Irrigate)
	× 1.0	= Gallon/Second (Common)
Miners-Inch (4" Head)	× .02	= Cubic Feet/Second
(6.5" Head)	× .025	= Cubic Feet/Second
(US Reclamation Service)	× 1.0	= Cubic Feet/Second
Miners-Inch (Arizona-California)	× 2160.	= Cubic Feet/Day
	× 1.5	= Cubic Feet/Minute
	× 16157.921	= Gallon Liquid US/Day
	× 11.221	= Gallon Liquid US/Minute
	× .025	= Second-Foot
Miners-Inch (Colorado)	× 2249.856	= Cubic Feet/Day
	× 1.5624	= Cubic Feet/Minute
	× 16830.091	= Gallon Liquid US/Day
	× 11.687	= Gallon Liquid US/Minute
	× .02604	= Second-Foot
Minim	× .003760	= Cubic Inch
	× .0166667	= Dram Fluid

Minim	× 1.0	= Drop (Water)
	× 2.0	= Drops (Alcoholic Medicine)
	× .4/o16276	= Gallon Liquid US
	× .000520833	= Gill
	× .4/o6161	= Liter
	× .0616102	= Milliter
	× .00208333	= Ounce Fluid
	× .000130208	= Pint Liquid US
	× .4/o65104	= Quart Liquid US
Minute	× .4/o463	= Circle
	× .000694	= Day
	× .016666	= Degree
	× .01852	= Grade
	× .01666	= Hour
	× .4/o228	= Month (1/12 Year)
	× .000290888	= Radian
	× .4/o463	= Revolution
	× 60.	= Second
	× .0001852	= Quadrant
	× .5/o1903	= Year
Minute in Arc × Radius	× .000290888	= Length of Arc
Minute of Longitude	× 4.0	= Second of Time

Moh Scale: 1-Talc 2-Gypsum 3-Calc Spar 4-Flourspar 5-Apatite 6-Feldapar 7-Quartz 8-Topaz 9-Sapphire 10-Diamond

Mol (Any Gas 60F-14.7 psia)	× 379.	= Cubic Feet
	× 1.0	= Gram-Molecule
	× 1.0	= Mole

Molal Solution = 1 Mole of Solute in 1000 gm of Water
Molar Solution = 1 Mole of Solute in a Liter of Solution.

Mole	× 1.0	= Gram-Molecular Weight

Mole = Molecular or Formula wgt in gms of Solute in a Liter of Solution.

Molecular Pound-Mass (Fluid)	× 1.0	= Mol
Molecular Pound-Volume (Fluid)	× 1.0	= Mol-Volume
Molecular Weight	× Pound Weight	= Mol Weight
	× Gram Weight	= Mol Weight
		= Gram-Molecular Weight
Molecular Weight in Grams		

Molecular Weight = Sum of Atomic Weights in Compound or Element.

Molecular Weight × (R=cuft-Lb/°R/Lb	= 1544.	= Molar Gas Constant

Molybdenum: (Mo):#42:95.95 AW: .064 SpHt: gm/cc 10.2: .35 gm-cal/Sec/Sqcm/°C/cm:

Linear Expansion: Inch	× 3.0	= Micro-Inch/Degree F
Monel: Linear Expansion: Inch	× 7.8	= Micro-Inch/Degree F
Monosodium Phosphate + Cal Carb + Sod Hydrox	= Cal Phos	+ Sod Carb + Water
Month Calendar	× 30.	= Day (Standard Calculation)
	× 720.	= Hour
	× 43200.	= Minute
	× 2592000.	= Second
Month Lunar	× 28.	= Day
Mortar: Cubic Feet	× .30	= Will Lay Cubic Feet Brick

Regular: In Parts: 1 Portland Cement: 3 Sand: .2 Hyd Lime.
Rich: In Parts: 1 Portland Cement: 2 Sand: .2 Hyd Lime.
Waterproof: 10# Lime to 1 Sack of Cement.
Mortar or Brick Wash: Water + HC1(10%)

Mortar (1:2)	:Cubic Yard Mortar	× .94	= Cubic Yard Sand.
		× .65	= Ton of Patent Plaster
	Cubic Yard Sand	× .6915	= Ton of Patent Plaster
	Ton of Patent Plaster	× 1.466	= Cubic Yard Sand
Mortar(1:2-1/2)	:Cubic Yard Mortar	× .96	= Cubic Yard Sand
		× .58	= Ton of Patent Plaster
	Cubic Yard Sand	× .6042	= Ton of Patent Plaster
	Ton Patent Plaster	× 1.655	= Cubic Yard Sand
Mortar (1:3)	:Cubic Yard Mortar	× 1.00	= Cubic Yard Sand
		× .50	= Ton of Patent Plaster
	Cubic Yard Sand	× .50	= Ton of Patent Plaster
	Ton of Patent Plaster	× 2.00	= Cubic Yard Sand
Mortar (1/2:1:2)	Cuyd	× 1.76	= Barrels Cement
	Cuyd	× 7.04	= Sack Cement

M — CONVERSION FACTORS

Mortar (1/2:1:3)	Cuyd	× 1.19	= Barrels Cement
	Cuyd	× 4.76	= Sack Cement
(1/2:1:2)(1/2:1:3)	Cuyd	× 1.00	= Cubic Yard Sand
(1:1:2)(1:1/2:2)(1:2:10%LP)	Cuyd	× 3.02	= Barrel Cement (LP=Lime Putty)
	Cuyd	× .91	= Cubic Yard Sand
	Cuyd	× 1135.52	= Pounds (376) Cement
	Cuyd	× 1147.6	= Pounds (380) Cement
	Cuyd	× 12.08	= Sack Cement
(1:1:3)(1:1/2:3)(1:3:10%LP)	Cuyd	× .94	= Cubic Yard Sand
	Cuyd	× 2.28	= Barrel Cement
	Cuyd	× 857.28	= Pounds (376) Cement
	Cuyd	× 846.4	= Pounds (380) Cement
	Cuyd	× 9.12	= Sack Cement
Mud: Aquagel-Water: Gallon		× 8.7	= Pound
Common Earth: Cubic Yard		× 2500.	= Pound
Drilling: Dry: Baroid Sack		× 100.	= Pound (Spg 4.3) Weight
Each 1000' of Hole		× Diam Sqin	= Barrel (42) of Mud
Wet: Aquagel: Ton		× 100.	= Barrel (42) Mud (Will Make)
Bentonite: Ton		× 100.	= Barrel (42) Mud (Will Make)
Barrel (42)		× .6	= Sack Barite (to Raise 1#/gal)
		× .01	= Ton Aquagel Needed
		× .01	= Ton Bentonite Needed
Gallon		× 10.	= Pound (Common)
		× 19.	= Pound (Maximum)
Pound/Gallon		× .052	= psi/Foot of Depth
Mud/Pump: psi Standpipe Circ Press × gpm		× .00058343	= Horsepower Output
Myria		= 1(4/o). = 10^4	= Ten Thousand
Myriagram		× 10000.	= Gram
		× 22.04622	= Pound Avoir
		× 26.792	= Pound Troy
Myrialiter		× 283.7	= Bushel US Struck
		× 353.1	= Cubic Feet
		× 2641.4	= Gallon Liquid US
Myriameter		× 10.	= Kilometer
		× 10000.	= Meter
		× 6.2137	= Mile Statute US
		× 10936.1114	= Yard US

N

Nail		× 2.5	= Inch
Nail: Cloth		× 5.715	= Centimeter
		× 2.25	= Inch
		× .25	= Quarter
		× .1875	= Yard
Nail: Common Cut: Pound		× (1340/d)−7	= Number Nails(d=Penny Size)
Keg		× 100.	= Pound
Penny Size (Up to 10d) × .25		+ .5	= Inch Length
Naptha:68F Cubic Foot		× 42.	= Pound
Napthalene: 60F−30"Hg:		= 4.423	= Specific Gravity (Air = 1)
Cubic Feet		× .3387	= Pound
Pound		× 2.95	= Cubic Feet
Natural Gas		= 70%	= Average Apparatus Efficiency
		= .5866	= Btu/Pound Constant Pressure
		= .4457	= Btu/Pound Constant Volume
		= .00367	= Expansion Coefficient
		= 85.40	= Gas Constant
		= .6243	= Specific Gravity
		= 1.315	= Specific Heat Ratio
Natural Gas: Cubic Foot		× 850 to 1200	= Btu (Average Range)
		× 1000.	= Btu (Use as Heat Value) - Avg.
		× 2.05	= Cuft Manufactured Gas
		× 876000.	= Foot Pound
		× .44	= Horsepower-Hour US
		× 1190000.	= Joule
		× .33	= Kilowatt-Hour
		× .086	= Pound Anthracite
		× .18	= Pound Dry Wood

Natural Gas: Cub

Natural Gas: 2"
3"
5.62
6"
Natural Gas Poun

Neodymium: (Nd)
Neon: (Ne): #10:2
Densi
Newton

Newton-Meter

Newton/Square Me

Nickel: (28:58
(5 Cent Piec
Cubic Foot
Linear Expa
Specific Gra
Niobium: (Nb) #41:
Nitrate: (NO_3):
Nitric: (N):
Nitric Acid
Nitric Oxide: Density
Nitride: (N):
Nitrite: (NO_2):
Nitrogen: (N)# 7:14.
Densit
Nitrogen (Atmos) 60

Nitrogen (Chem) 60F

Nitrogen Nucleus +
Nitrous Oxide: Densi
Noggin

Noise: Airplane
Conversation
Critical Level
Cut-Off Saw:
Drop Hammer

Natural Gas: Cubic Foot	× .059	= Pound Fuel Oil
	× 1.16	= Pound Water Evap @ 212F
	× .05037	= Pound Weight
Natural Gas: 2" Pipe: Sq Rt (Initial psi sqd	- final psi sqd)	× 4770 = SqRt Miles × cuft/Day
3" Pipe: Sq Rt (Initial psi sqd	- final psi sqd)	× 13661 = SqRt Miles × cuft/Day
5.625 Pipe: Sq Rt (Initial psi sqd	- final psi sqd)	× 68848 = SqRt Miles × cuft/Day
6" Pipe: Sq Rt (Initial psi sqd	- final psi sqd)	× 84232 = SqRt Miles × cuft/Day
Natural Gas Pound Weight	× 19.86	= Cubic Feet
	× 15.	= Pound Water Evap @ 212F
Neodymium: (Nd): #60:144.27 AW:		
Neon: (Ne): #10:20.183 AW:		
Density: Liter	× .9005	= Gram
Newton	× 100000.	= Dyne
	× 102.	= Gram-Force
	× .01	= Joule/Centimeter
	× 1.0	= Joule/Meter
	× .102	= Kilogram-Force
	× 32.1739	= Kilogram-Mass
	× fpss	= Kilogram-Mass
	× 7.233	= Poundal
	× .2248	= Pound-Force
Newton-Meter	× 1(7/o).	= Dyne-Centimeter
	× 10197.16	= Gram-Centimeter
	× .1019716	= Kilogram-Meter
	× .7376	= Pound-Feet
Newton/Square Meter	× .5/o9869	= Atmosphere 76cm 32F
	× 10.	= Bar
	× .0007501	= Centimeter Hg 32F
	× 10.	= Dyne/Sq Centimeter
	× .0002953	= Inch Hg 32F
	× .004015	= Inch Water 4C
	× .102	= Kilogram/Sq Meter
	× .001	= Kilopascal
	× .02089	= Pound/Sq Foot
	× .000145	= Pound/Sq Inch
	× .4/o1044	= Ton Short/Sq Foot
Nickel: (Ni): #28:58.69 AW: Val + 2: Sp Ht .11:8.85 gm/cc: MP 1452C:BP2900C:		
(5 Cent Piece)	= 5.0	= Gram
Cubic Foot	× 565.	= Pound
Linear Expansion: Inch	× 12.6	= Micro-Inch/Degree F
Specific Gravity	= 8.9 to 0.2	
Niobium: (Nb): #41:92.91 AW:		
Nitrate: (NO_3):	= -1	= Valence
Nitric: (N):	= +5	= Valence
Nitric Acid	+ Glycerine	= Nitroglycerine + Water
Nitric Oxide: Density: Liter	× 1.3388	= Gram
Nitride: (N):	= -3	= Valence
Nitrite: (NO_2):	= -1	= Valence
Nitrogen: (N)# 7:14.008 AW: Val. +5:		
Density: Liter	× 1.2499	= Gram
Nitrogen (Atmos) 60F-30"Hg: Cubic Foot	× .07443	= Pound
Pound	× 13.44	= Cubic Feet
Specific Gravity	= .9722	Air = 1
Nitrogen (Chem) 60F-30"Hg: Cubic Foot	× .07406	= Pound
Pound	× 13.50	= Cubic Feet
Specific Gravity	= .9672	Air = 1
Nitrogen Nucleus + Helium Nucleus	= Proton	+ Oxygen Nucleus
Nitrous Oxide: Density: Liter	× 1.9638	= Gram
Noggin	× 142.06	= Cubic Centimeter
	× 1.0	= Gill (Usually)
	× 5.0	= Ounce Fluid British
Noise: Airplane	= 120.	= Decibel
Conversation	= 60.	= Decibel
Critical Level	= 90.	= Decibel
Cut-Off Saw: Riveter	= 95.	= Decibel
Drop Hammer: Chipping Hammer	= 125.	= Decibel

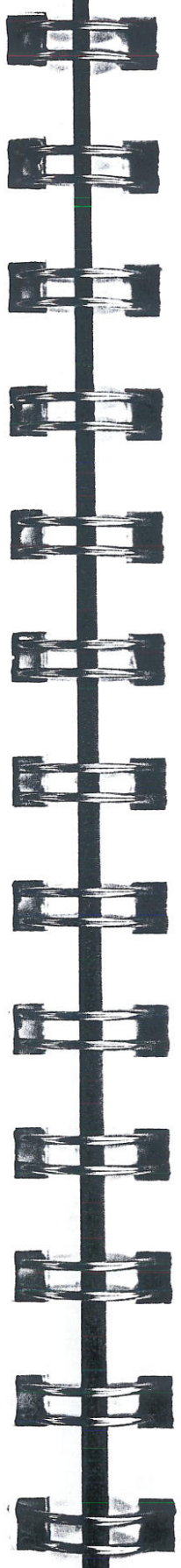
CONVERSION FACTORS

N

Noise: Heavy Traffic	= 80.	= Decibel
Jet Engine	= 140.	= Decibel
Lathes: Spinners: Looms	= 90.	= Decibel
Low Street Noise	= 40.	= Decibel
Whisper	= 20.	= Decibel
Nonogon: Short Radius Squared	× 3.27573	= Area
Width of Side Squared	× 6.181824	= Area
Norm	= 65°F	= Normal Household Temp.
Number Cycles × Cycles/Minute	× .000694	= Day
	× 60.	= Second
	× .01666	= Hour
Number Cycles × Cycles/Second	× .0002777	= Hour
	× .01666	= Minute
	× .4/o11574	= Day
Number (Thread-Fiber)	× 840.	= Yard/Pound
Number Turn × Ampere	× 1.256637	= Gilbert

O

Octagon: Diagonal	× .383	= Side
Long × Short Diameter	× 1.082	= Circumscribing Circumference
Short Diameter	× 1.082	= Diagonal
	× .414	= Side
Short Diameter Squared	× .828	= Area
Short Radius Squared	× 3.31371	= Area
Side	× 2.613	= Diagonal
Width of Side Squared	× 4.828427	= Area
Octahedron: Side Cubed	× .4714	= Volume
Side Squared	× 3.4641	= Total Area
Oersted	× .07958	= Abampere-Turn/Centimeter
	× .7958	= Ampere-Turn/Centimeter
	× 2.021	= Ampere-Turn/Inch
	× 79.58	= Ampere-Turn/Meter
	× 299774(5/o).	= ESU (Magnetizing Force)
	× 1.0	= Gilbert/Centimeter
Ohm Absolute	× 1.0	= Ohm (R)
Ohm × Ampere Squared × Hour	× 3.4128	= Btu/Hour
× Ampere Squared × Minute	× .05688	= Btu/Minute
× Ampere Squared × Second	× .0009480	= Btu
× Ampere Squared × Second	× .2389	= Gram-Calorie
× Time in Second	× Amp Squared	= Joule or Watt-Second
× Volt × Time	× .2389	= Gram-Calorie Heat
× Wire Cross Section Sqin	= Feet Wire	× Ohm/Sqin/Ft Wire
× Wire Diameter Squared in Mil	= Feet Wire	× Mil-Foot
Ohm/Centimeter	× 1.0	= Ohm-Centimeter
Ohm-Centimeter	× 393700.	= Microhm-Centimeter
	× 1.0	= Ohm/Centimeter
	× .3937	= Ohm-Inch
	× 1.0	= Resistivity Unit
Ohm International	× 1.01358	= BA Unit
	× 1(9/o).	= Electromagnetic Unit
	× .10/o1	= Electrostatic Unit
	× 1.000495	= Ohm Absolute
	× 1.00283	= Ohm Legal
	× 1.0	= Resistance Unit
	× 1.06300	= Siemen Unit
Ohm/Kilo-Feet	× 3.2808	= Ohm/Kilometer
Ohm/Kilometer	× .3048	= Ohm/1000 Feet
Ohm/Kilo-Yard	× 1.0936	= Ohm/Kilometer
Ohm/Meter	× 1.0	= Ohm-Meter
Ohm-Meter	× 1(11/o).	= Abohm-Centimeter
	× 1(11/o).	= Abohm/Centimeter Cube
	× 1(8/o).	= Microhm-Centimeter
	× 1(8/o).	= Microhm/Centimeter Cube
	× 3937(4/o).	= Microhm-Inch
	× 3937(4/o).	= Microhm/Inch Cube
	× 1.0	= Ohm/Meter
	× 6015(5/o).	= Ohm-Mil-Foot



Ohm-Meter
Ohm-Meter
Ohm/Meter
Ohm-Meter-Gram
Ohm-Meter-Gram ×
Ohm/Mil-Foot
Ohm-Mil-Foot
Ohm-Mil-Foot × gm
Ohm (R)
Ohm (X)
Ohm (Z)
Ohm Squared Impe
Oil Burner (Home):
Oil: Crude: Barrel (
Cubic F
Gallon
Metric
Pound
Oil: Fuel: Pound

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Ohm-Meter	× 6015(5/o).	= Ohm/Mil-Foot
Ohm-Meter × gm/cc	× .5/o1	= Ohm-Meter-Gram
	× .5/o1	= Ohm/Meter-Gram
Ohm/Meter-Gram	× 1.0	= Ohm-Meter-Gram
	× 5710.0	= Ohm-Mile-Pound
Ohm-Meter-Gram	× 1.0	= Ohm/Meter-Gram
	× 5710.	= Ohm-Mile-Pound
Ohm-Meter-Gram × gm/cc	= 1(5/o).	× Abohm-Centimeter
	= 1(5/o).	= Abohm/Centimeter Cube
	= 100.	× Microhm-Centimeter
	= 100.	× Microhm/Centimeter Cube
	= 39.37	× Microhm-Inch
	= 39.37	× Microhm/Inch Cube
	= .5/o1	× Ohm-Meter
	= .5/o1	× Ohm/Meter
	= 601.5	× Ohm-Mil-Foot
	= 601.5	× Ohm/Mil-Foot
Ohm/Mil-Foot	× 1.0	= Circular Mil-Ohm/Foot
	× 1.0	= Ohm-Mil-Foot
	= 1.0	= Unit Specific Resistance
Ohm-Mil-Foot	× 166.2	= Abohm-Centimeter
	× 166.2	= Abohm/Centimeter Cube
	× 1.0	= Circular Mil-Ohm/Foot
	× .1662	= Microhm-Centimeter
	× .1662	= Microhm-Centimeter Cube
	× .06545	= Microhm-Inch
	× .06545	= Microhm-Inch Cube
	× .8/o1662	= Ohm-Meter
	× 1.0	= Ohm/Mil-Foot
Ohm-Mil-Foot × gm/cc	× .001662	= Ohm-Meter-Gram
	× .001662	= Ohm/Meter-Gram
Ohm (R)	× 1(9/o).	= Abohms
	× 1.0	= Electromagnetic Unit
	× .6/o111262	= Electrostatic Unit
	× .5/o1	= Megohm
	× 1(6/o).	= Microhms
	× 1.0	= Ohm Absolute
	× .999505	= Ohm International
	× 1.0	= Resistance Unit Practical
	× .11/o1112	= Statohm
	× Ampere	= Volt
	× Ampere Squared	= Watt
	× Coulomb/Sec	= Volt
	× Mho	= 1.0
	× Watt	= Volt Squared
Ohm (X)	× 1.0	= Reactance Capacitive Unit
	× 1.0	= Reactance Inductive Unit
Ohm (Z)	× Ampere	= Volt
	× 1.0	= Impedance Unit Practical
Ohm Squared Impedance	× Mho Conductance	= Ohm Resistance
	× Mho Susceptance	= Ohm Reactance
Oil Burner (Home):	= 800	= Watt Avg Use
Oil: Crude: Barrel (42)	× 5800000.	= Btu (Common)
	× 4800.	= Cuft Gas (Evaporated)
	× 273-300	= Pound (273 Common)
	× 299.828	= Pound DOE* (Std.)
Cubic Foot	× .1781	= Barrel (42)
Gallon	× .02380952	= Barrel (42)
	× 7.139	= Pound DOE* (Std.)
Metric Ton	× 7.33	= Barrel DOE* (Std.)
Pound	× 19344.	= Btu DOE* (Std.)
Oil: Fuel: Pound	× 19105.	= Btu (Fuel Comparison)
	× 34.7	= Cuft Manufactured Gas
	× 17.	= Cuft Natural Gas
	× 14868421.	= Foot-Pound
	× 7.5	= Horsepower-Hour US

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CONVERSION FACTORS

Oil: Fuel: Pound	× 20155263.	= Joule
	× 5.598	= Kilowatt-Hour
	× 1.46	= Pound Anthracite
	× 3.05	= Pound Dry Wood
	× 19.7	= Pound Water Evap 212F
Oil: Lubricating: Cubic Foot	× 57.	= Pound
Gallon	× 7.5	= Pound
Oil: Specific Gravity @ 60F -.00035	× °F - 60	= spg at Temperature
Oil: to Lift: Height Feet × Spg	× .434	= psi to Start Well Flowing
	× 8.35	= Work in Foot-Pound
Oil: Ultimate Recovery: Flow and Pump	= 20 to 40%	= of Original Sand Volume
Oil Well: gpm/ft of Drawdown	× ft drawdown	= gpm During Drawdown
Specific Capacity	× 1.0	= gpm/ft of Drawdown
SW USA: Foot Depth × .004 to .002	+ 74	= °F Hole Temperature
Oklahoma City Heating Load	= 3830.	= Degree-Day
Omaha Heating Load	= 6130.	= Degree-Day
One-Gram	= .1	= Gram
Orange	= 6470.	= Angstrom
	= 25.5	= Micro-Inch
Osmium: (Os): #76:190.82 AW: SpHt .031:22.48 gm/cc:		
Ostwald Calorie	× .3960	= Btu
	× 9936.6	= Foot-Poundal
	× 308.84	= Foot-Pound-Force
	× 100.024	= Gram-Calorie
	× 100.	= Gram-Calorie Mean
	× 418.73	= Joule
	× .100024	= Kilogram-Calorie
	× 42.6858	= Kilogram-Force-Meter
	× .000116279	= Kilowatt-Hour
	× 100.	= Mean Calorie
	× .220499	= Pound-Calorie
Ounce Apothecaries - Troy	× 8.0	= Dram Apoth
	× 17.55428	= Dram Avoir
	× 480.	= Grain Apoth-Troy
	× 31.103481	= Gram
	× .031103	= Kilogram
	× 1.0971429	= Ounce Avoir
	× 31103.481	= Milligram
	× 20.0	= Pennyweight Troy
	× .08333	= Pound Apoth-Troy
	× .068571	= Pound Avoir
	× 24.	= Scruple Apoth-Troy
	× .4/o3061	= Ton Long
	× .4/o311034	= Ton Metric
	× .4/o3429	= Ton Short
Ounce Apoth-Troy/Day	× 1.29598	= Gram/Hour
	× .031104	= Kilogram/Day
	× .365224	= Kilo-Ounce Troy/Year
	× .36	= Milligram/Second
	× .041667	= Ounce Troy/Hour
	× .011360	= Ton Metric/Year
Ounce Apoth-Troy/Hour	× 31.1035	= Gram/Hour
	× .74649	= Kilogram/Day
	× 8.76581	= Kilo-Ounce Troy/Year
	× 8.63986	= Milligram/Second
	× 24.	= Ounce Apoth-Troy/Day
	× .27265	= Ton Metric/Year
Ounce Apoth-Troy (1000)/Year	× 3.54823	= Gram/Hour
	× .085157	= Kilogram/Day
	× .98563	= Milligram/Second
	× 2.73791	= Ounce Troy/Day
	× .11408	= Ounce Troy/Hour
	× .031104	= Ton Metric/Year
Ounce Avoirdupois (Oz)	× 141.7476	= Carat
	× .000625	= Cwt
	× 7.29167	= Dram Apoth

Ounce Avoirdupois (Oz)	× 16.0	= Dram Avoir
	× 437.5	= Grain
	× 28.349527	= Gram
	× .028350	= Kilogram
	× 28349.527	= Milligram
	× .9114583	= Ounce Apoth-Troy
	× 18.22917	= Pennyweight
	× .075955	= Pound Apoth-Troy
	× .0625	= Pound Avoir
	× 21.875	= Scruple
	× .4/o279	= Ton Long
	× .4/o2835	= Ton Metric
	× .4/o3125	= Ton Short
Ounce Avoirdupois/Gallon Liquid US	× 7.5	= Gram/Liter
Ounce Avoirdupois/Hour	× 28.34953	= Gram/Hour
	× .68039	= Kilogram/Day
	× 7.87487	= Milligram/Second
	× 1.5	= Pound Avoir/Day
	× .0625	= Pound Avoir/Hour
	× .24851	= Ton Metric/Year
	× .27393	= Ton Short Avoir/Year
Ounce Fluid British	× 28.4130	= Cubic Centimeter
	× 1.732	= Cubic Inch
	× .00625	= Gallon British
Ounce Fluid US Apoth	× .0008392	= Bushel US Std Struck
	× 29.5729	= Cubic Centimeter
	× .001044	= Cubic Foot
	× 1.80469	= Cubic Inch
	× .4/o3868	= Cubic Yard
	× 8.0	= Dram Fluid
	× .0078125	= Gallon Liquid US
	× 29.5729	= Gram Water
	× .25	= Gill
	× .03110	= Kilogram
	× .0295729	= Liter
	× 29.5729	= Milliliter Water
	× 480.	= Minim
	× .0625	= Pint Liquid US
	× .08333	= Pound Apoth - Troy
	× .06857	= Pound Avoir
	× .02686	= Quart Dry US
	× .03125	= Quart Liquid US
	× 24.	= Scruple Apoth-Troy
	× 2.0	= Tablespoon
	× .4/o3061	= Ton Long
	× .4/o3110	= Ton Metric
	× .4/o3429	= Ton Short
Ounce Fluid US/Gallon Liquid US	× 7.7	= Cubic Centimeter/Liter
	× 7.5	= Gram/Liter
Ounce/Square Foot	× .001002	= Feet Water 60F
	× .000886	= Inch Mercury 32F
	× .01203	= Inch Water 60F
	× 3050.	= Milligram/Square Decimeter
	× .00694	= Ounce/Square Inch
	× .0625	= Pound/Square Foot
	× .000434	= Pound/Square Inch
Ounce/Square Inch	× 118.3	= Feet Air 62F
	× 87.2	= Feet Air/Second
	× .1443	= Foot Water 62F
	× .1272	= Inch Mercury 70F
	× 2.1017	= Inch Red Oil 70F
	× 1.732	= Inch Water 62F
	× 144.	= Ounce/Square Foot
	× .0625	= Pound/Square Inch
	× 9.	= Pound/Square Foot
Ounce Troy/Gallon Liquid US	× 8.2	= Gram/Liter

CONVERSION FACTORS

Oven: Exhaust cfm × (Exhaust °F − Intake °F)	× 1.08	= Btu/Hr Exhaust Loss
Lb Load × SpHt × (Oven °F − Load °F)	× (60/Minutes to Temp)	= Btu/Hr Absorp Loss
To Remove Water: Pound Water Entering	× 1200.	= Btu/Hr Water Evap Heat Loss
2" Walls: Sqft × (Oven °F − Ambient °F)	× 0.5	= Btu/Hr Radiation Loss
4" Walls: Sqft × (Oven °F − Ambient °F)	× 0.35	= Btu/Hr Radiation Loss
Oxide: (O):	= −2	= Valence
Oxygen: (O): #8:16.00 AW: Val. −2:		
(60F−30"Hg) Cubic Foot	× .08463	= Pound
Pound	× 11.82	= Cubic Feet
Specific Gravity	= 1.1053	Air = 1
Point	= 90.19	= Degree Kelvin
Density: Liter	× 1.4277	= Gram
Pace:	× 3.	= Feet
British	× 76.2	= Centimeter
	× 30.	= Inch
Pail: Common Water	× 2.272	= Gallon Liquid US
	× 19.	= Pound (Capacity)
Paint: Area to Cover in Sqft	× .001724	= Gallon Enamel (Minimum)
Gallon Enamel	× 580.	= Sqft Area Covered

Gallon Can 7" High:

7"	= 100.00%	= 4 Qt.	= 128 oz.	2"	= 28.60%		= 37 oz.
6"	= 85.75%		= 110 oz.	1.75"	= 25.00%	= 1 Qt.	= 32 oz.
5.25"	= 75.00%	= 3 Qt.	= 96 oz.	1"	= 14.30%		= 18 oz.
5"	= 71.50%		= 92 oz.	1/2"	= 7.15%		= 9 oz.
4"	= 57.20%		= 73 oz.	1/4"	= 3.58%		= 4.5 oz.
3.5"	= 50.00%	= 2 Qt.	= 64 oz.	1/8"	= 1.79%		= 2.25 oz.
3"	= 42.80%		= 55 oz.	1/16"	= .89%		= 1.125 oz.

Paint: Finish Coat: Board or Plaster	= 700.	= Sqft Coverage/Gallon
Brick	= 450.	= Sqft Coverage/Gallon
Brick or Concrete	= .7	= Man-Hr/Square/Coat
Calcimine Plaster	= .6	= Man-Hr/Square/Coat
Clapboard	= .5	= Man-Hr/Square/Coat
Clapboard	= 630.	= Sqft Coverage/Gallon
Enamel Trim	= .85	= Man-Hr/Square/Coat
Oiling Brickwork	= .7	= Man-Hr/Square Coat
Outside Woodwork	= .45	= Man-Hr/Square/Coat
Polishing Floor	= 1.0	= Man-Hr/Square/Coat
Plaster	= .7	= Man-Hr/Square/Coat
Stenciling	= 5.0	= Man-Hr/Square/Coat
Stucco or Concrete	= 500.	= Sqft Coverage/Gallon
Varnish Trim	= .67	= Man-Hr/Square/Coat
Varnish Floor	= .5	= Man-Hr/Square Coat
Wax Floor	= .5	= Man-Hr/Square/Coat
Paint Spray: Water Booth: Each Front Foot	× 5.0	= gpm (average Design)
Painting: Alcohol Stain on Wood	= 400.	= Sqft Coverage/Gallon
Aniline Stain on Wood	= 650.	= Sqft Coverage/Gallon
Calcimine on Plaster	= 150.	= Sqft Coverage/Gallon
Fill-Sand-Rub Down Trim	= 1.3	= Man-Hr/Square/Operation
Floor Varnish on Wood	= 500.	= Sqft Coverage/Gallon
Liquid Filler on Wood	= 450.	= Sqft Coverage/Gallon
Oil Stain on Wood	= 550.	= Sqft Coverage/Gallon
Paste Filler on Wood	= 300.	= Sqft Coverage/Gallon
Priming: Board or Plaster	= 500.	= Sqft Coverage/Gallon
Brick	= 400.	= Sqft Coverage/Gallon
Brick or Plaster	= .9	= Man-Hr/Square/Coat
Calcimine Plaster	= .3	= Man-Hr/Square/Coat
Clapboard	= .55	= Man-Hr/Square/Coat
Clapboard	= 450.	= Sqft Coverage/Gallon
Concrete	= .9	= Man-Hr/Square/Coat
Filling Floor	= .7	= Man-Hr/Square/Coat
Oiling Brickwork	= .9	= Man-Hr/Square/Coat
Outside Woodwork	= .5	= Man-Hr/Square/Coat
Stucco or Concrete	= 425.	= Sqft Coverage/Gallon
Shellac on Wood	= 700.	= Sqft Coverage/Gallon
Stain In or Out Trim or Floors	= .6	= Man-Hr/Square/Coat

Painting: Varnishing Wood	= 600.	= Sqft Coverage/Gallon
Water Stain on Wood	= 700.	= Sqft Coverage/Gallon
Palladium: (Pd): #46:106.7 AW:		
Palm	× 3.	= Inch
Palm: British	× 7.62	= Centimeter
	× 3.0	= Inches
Paper: Cubic Foot	× 43 to 69	= Pound
Specific Heat	= .35	= Btu/Pound/°F
Paperhanging: Wall or Ceiling: Rolls	× .3	= Man-Hr (Light-Medium Paper)
Rolls	× .5	= Man-Hr (Heavy Paper)
Number of Rolls	× .11	= Gallon Paste (Light-Med)
Number of Rolls	× .17	= Gallon Paste (Heavy Paper)
Parabola: Base × Height	× .6667	= Area
Paraboloid: Height x Base Width	× .39269908	= Volume
Radius Squared × Height	× 1.5707	= Volume
Parallelogram: Altitude	× Base	= Area
Parking Car: 90° Angle: 8' x 22' Slot: 24' Driveway: 3' Wheel Barrier:		
45° Angle: 8' x 20' Slot: 15' Driveway: 2' Wheel Barrier:		
30° Angle: 8' x 21' Slot: 18' Driveway: 3' Wheel Barrier:		
Parsec	× 31(12/o).	= Kilometer
	× 19(12/o).	= Mile US Statute
Parts/100,000	× .5835	= Grain Gallon Liquid US
	× 10.0	= Parts/Million
Parts/Million (ppm)	× .05833	= Grain Gallon Liquid US
	× .001	= Gram/Liter
	× .1	= Parts/100,000
	× 8.345	= Pound/Million Gallon US
Parts/Million Impurity	× 100.	= % Moisture × ppm Boiler Water
Pcu	× 1.0	= Pound Centigrade Heat Unit
	× 1.0	= Pound-Chu
Pcu Hour-Square Foot-°C	× 1.0	= Heat Transfer Coefficient
Pcu Pound °C	× 1.0	= Humid Heat Unit
	× 1.0	= Specific Heat Unit
Peck	× .25	= Bushel
	× 8809.8	= Cubic Centimeter
	× .31111	= Cubic Feet
	× 537.605	= Cubic Inch Std Volume
	× .881	= Decaliter
	× 2.	= Gallon Dry US
	× 2.3273	= Gallon Liquid US
	= 8×8×8.5	= Inch Standard Box
	× 8.809581	= Liter Dry
	× 9.092	= Liter Liquid
	× 16.	= Pint Dry US
	× 8.	= Quart Dry US
	× 9.3092	= Quart Liquid US
Peck British	× 2.0	= Gallon British
	× 9.0919	= Liter
Pendulum: Sq Root of (Length Accel Gravity)	= .15915	× Time/Period
Pennyweight Gallon Liquid US	× .41	= Gram Liter
Pennyweight Troy (dwt)	× .4	= Dram Apoth
	× .8777143	= Dram Avoir
	× 24.	= Grain Troy
	× 1.55517	= Gram
	× .001555	= Kilogram
	× 1555.174	= Milligram
	× .054857	= Ounce Avoir
	× .05	= Ounce Troy
	× .00342857	= Pound Avoir
	× .0041666	= Pound Troy
	× 1.2	= Scruple
Pentagon: Short Radius Squared	× 3.63271	= Area
Width of Side Squared	× 1.720477	= Area
Pentane: 30Hg60F: Gas: Boiling Point	= 557.	= Degree R
Critical Pressure	= 485.	= psi
Critical Temperature	= 840.	= Degree R

CONVERSION FACTORS

Pentane: 30Hg60F:Cuft	× .0854	= Btu
	× 38.19	= Cuft Air to Burn
	× 4025	= Pound
Density: Cuft	× .1901	= Pound
Flame Propagation 1" Tube	2.72	= fps Max Rate
Inflammability	= 8.	= % Gas Upper Limit
	= 1.4	= % Gas Lower Limit
Mean Coeff Expansion	= .00081	= (0-50F)
	= .00089	= (50-100F)
Melting Point	= 258.19	= Degree R
Molecular Weight	= 72.10	
% @ Max Flame Propagation Rate	= 2.92	
Pound	× 21121.	= Btu
	× 153.	= Btu Heat Vaporization @ BP
Specific Gravity	= 2.975	(Air = 1)
Specific Heat: Pound	× .402	= Btu
Liquid: Degree API	= 92.7	
Gallon	× 110041.	= Btu
	× 110000.	= Btu Heat Vaporization @ BP
	× 27.67	= Cuft
	× 5.25	= Pound
Pound	× 20948.	= Btu
	× 5.26	= Cuft
Specific Gravity	= .631	
Vapor Pressure	= 16.	= psi Gage 60F
	= 8.6	= psi Gage 80F
	= .9	= psi Gage 100F
	= 7.8	= psi Gage 120F
Perch Linear	× 16.5	= Feet
	× 5.0292	= Meter
	× 1.0	= Pole or Rod
	× 5.5	= Yard
Masonry	× 24.75	= Cubic Foot
Volume	× 24.75	= Cubic Foot
	× .70085	= Cubic Meter
	= 16.5×1.5×1	= Dimension in Feet
Perm (Water Vapor Permeability) × 1.0 = Grain Water/Hr/Sqft/inch Hg Press Differential		
Perm-Inch (Water Vapor Passing thru a Material)	× 1.0	= Grain/Hr/Sqft/Inch
Permanganate: Mno_4:	= -1	= Valence
Permability: Cuft/Day/Sqft Sand/psf Pressure Diff/Foot Sand Thickness = Darcy		
Pes	× 1.0	= Foot
Pferde Starke	× 1.0	= Cheval Vapeur
	× 1.0	= Metric Horsepower
Pfund (Austria-Hungary)	× 1.2346	= Pound Avoir
(Germany)	× 500.	= Gram
pH Number = $-\log H^+$ = $\log 1/H^+$ = log H^+ ion in Mole/Liter = $\log 1/(H^+$ ion gram - mols/Liter @ 71.6F)		
Phon	× 1.0	= Sound Loudness Unit
Phosphate: Pebble: Cubic Foot	× 100.	= Pound
Rock: Cubic Foot	× 85.	= Pound
Phosphate: PO_4:	= -3	= Valence
Phosphide: P:	= -3	= Valence
Phospher Bronze: Cubic Foot	× 549.35	= Pound
Phosphoric: P:	= +5	= Valence
Phosphorous: P:	= +3	= Valence
Phosphorus:(P):#15:30.98 AW:		
Phot	× 929.	= Footcandle
	× 1.0	= Lumen/Square Centimeter
	× 10000.	= Lux
	× 1000.	= Milliphot
Pi (π)	× 1.	= 3.14159265358979323846
	× 2.	= 6.283185531
	× 3.	= 9.42477796
	× 4.	= 12.56637061
	× 5.	= 15.70796327
	× 6.	= 18.84955592

Pi (π)

Pi (π) Values:

Pic

Picul

Pied

Pile Driving & Set B

Pile Pulling & Remov

Pinch

Pint Dry US

Pint Liquid British

Pint Liquid US (pt)

Pi (π)	× 7.	= 21.99114857
	× 8.	= 25.13274123
	× 9.	= 28.27433388
	× π	= 9.869604401 = π^2
Pi (π) Values:	= 1/π	= .3183099 = Reciprocal
	= 2/π	= .63662
	= 3/π	= .95493
	= 4/π	= 1.27324
	= 5/π	= 1.59155
	= 6/π	= 1.90986
	= 7/π	= 2.22817
	= 8/π	= 2.54648
	= 9/π	= 2.86479
	= 12/π	= 3.81972
	= 360/π	= 114.5915
	= π/2	= 1.57096
	= π/3	= 1.047197
	= π/4	= .7853982
	= π/6	= .523599
	= π/12	= .261799
	= π/64	= .049087
	= π/360	= .0087266
	= 1/4(π)	= .07957747
	= 1/π^2	= .10132116
	= 4/3(π)	= 4.18879020
	= Log π	= .49714987
	= Log π/4	= 9.89509-10
Square Root of π		= 1.77245385
Square Root of 1/π		= .564189
Square Root of π/4		= .886226
Square Root of 4/π		= 1.128379167
Cube Root of 6/π		= 1.240700982
Log Square Root of π		= .248575
Log Square Root of π/4		= 9.947545-10
Pic	× 22.83	= Inch US
Picul	× 135.	= Pound Avoir (Avg)
Pied	× .325	= Meter
	× 12.	= Paris Inch
Pile Driving & Set Braces:	(Feet Depth × .001) + .01	= Man-Hour/Sqft of Area
Pile Pulling & Remove Braces:	(Feet Depth × .0002) + .002	= Man-Hour/Sqft of Area
Pinch	× .125	= Teaspoon (or Less)
Pint Dry US	× .015625	= Bushel
	× 550.6136	= Cubic Centimeter
	× .01945	= Cubic Feet
	× 33.6003125	= Cubic Inch
	× 2.	= Cup
	× .125	= Gallon Dry US
	× .14545	= Gallon Liquid US
	× .550599	= Liter
	× .0625	= Peck
	× .5	= Quart Dry US
	× .58182	= Quart Liquid US
	× .05506	= Decaliter
Pint Liquid British	× .56825	= Liter
	× 1.20094	= Pint Liquid US
Pint Liquid US (pt)	× .003968	= Barrel (31.5)
	× 473.1798	= Cubic Centimeter
	× .01671	= Cubic Feet
	× 28.875	= Cubic Inch
	× 2.	= Cup
	× .10742	= Gallon Dry US
	× .125	= Gallon Liquid US
	× 4.	= Gill
	× .473167	= Liter
	× 473.167	= Milliliter
	× 16.	= Ounce Fluid US

P CONVERSION FACTORS

Pint Liquid US (pt)	× .5	= Quart Liquid US
	× .42968	= Quart Dry US
	× 128.	= Dram Fluid
	× 7680.	= Minim
Pipe (Liquid Container)	× 4.	= Barrel (31.5)
	× 1.	= Butt
	× 2.	= Hogshead
	× 126.	= Gallon Liquid US
	× 4032.	= Gill
	× 1008.	= Pint Liquid US
	× 1.5	= Puncheon
	× 504.	= Quart Liquid US
	× .5	= Tun
Pipe: Angle Valve: Diam Inch	× 14.0	= Equiv Feet of Pipe
Area Sqin × Feet Filled	= 808.5	× Barrel (42) (Sec Casing)
× Feet Long	× .001237	= Barrel (42)
× 100 Ft Long	× .1237	= Barrel (42)
Base Area	× Height	= Volume (See Tubing)
Base Perimeter	× Height	= Lateral Area
Circumference Squared × Length	× .07957747	= Volume (See Cylinder)
Diameter Foot × Foot Long	× 3.1416	= Sqft Lateral Area
	× 452.389248	= Sqin Lateral Area
Diameter Foot × Inch Long	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
Diameter × Length	× 3.1416	= Lateral Area
Diameter Inch × Foot Long	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
Diameter Inch × Inch Long	× .021816	= Sqft Lateral Area
	× 3.1416	= Sqin Lateral Area
Diameter Squared Foot × Foot Long	× .139885	= Barrel (42)
	× .785398	= Cubic Foot
	× 1357.168	= Cubic Inch
	× 5.87517	= Gallon US
	× .74613	= Sack Cement
Diameter Squared Foot × Inch Long	× .01165	= Barrel (42)
	× .06542	= Cubic Foot
	× 113.09734	= Cubic Inch
	× .489597	= Gallon US
	× .06206	= Sack Cement
Diameter Squared × Length	× .7854	= Cubic Volume
Diameter Squared Inch × Feet Filled	= 1029.4	× Barrel (42)
Diameter Squared Inch × Foot Long	× .0009714234	= Barrel (42)
× 100 Foot	× .0971428	= Barrel (42)
× 1000 Foot	× .971428	= Barrel (42)
× Foot Long	× .00545412	= Cubic Foot
	× 9.4247784	= Cubic Inch
	× .0408	= Gallon US
	× .2652	= Pound Crude Oil Weight
	× .34	= Pound Water Weight
	× .005177	= Sack Cement
Pipe: Diam Squared Inch × Ft Fill-up × Hour	× .023312	= Bbl(42)/Day Est Production
Diameter Squared Inch × Ft/Min	× .00545	= Cubic Feet/Second
	× .0408	= Gallon Water/Minute
× Ft/Sec	× .327	= Cubic Feet/Minute
	× 2.44798	= Gallon Water/Minute
Diameter Squared Inch × Inch Long	× .4/08095195	= Barrel (42)
	× .00045451	= Cubic Foot
	× .785398	= Cubic Inch
	× .0034	= Gallon US
	× .000431	= Sack Cement
Pipe: Ell 45°: Diam Inch	× 1.2	= Equiv Feet of Pipe
Feet/Second Squared × Foot Long	× .0003105	= Ft Diam × Ft Hd Frict Loss
	× .003726	= In Diam × Ft Hd Frict Loss
Ft Head Friction Loss × Diam Foot	× 3220.20	= fps Squared × Ft Long
× Diam Inch	× 268.35	= fps Squared × Ft Long
Gate Valve: Diam Inch	× .5	= Equiv Feet of Pipe

Pipe: Globe Valve: Diam Inch	× 26.	= Equiv Feet of Pipe
Inch ID × fps	× .32724	= Cuft/min (Air)
Inch ID Squared × Inch Thick	× .8	= Section Modulus
Inch Wall Thickness × psi Tensile	× 2.	= Inch OD × psi Burst Internal
Inside Radius × Length	× 6.28318	= Area Internal
Long Sweep Ell: Diam Inch	× 1.8	= Equiv Feet of Pipe
Med. Sweep Ell: Diam Inch	× 2.3	= Equiv Feet of Pipe
OD Minus Thickness × Thickness	× 10.68	= Pound Weight/Foot
OD Minus Thickness × Thickness	× 28.2	= Ton Wgt/Mile
OD Minus Thickness × Thick × Length	× 3.1416	= Cubic Inch of Metal (All Inch)
Outside Diameter × Thickness	× 3.1416	= Sqin Metal Area: Section
Outside Radius × Length	× 6.28318	= Area External
Radius × Length	× 6.28318	= Lateral Area
Radius Squared × Length	× 3.1416	= Volume
Return Bend: Diam Inch	× 6.0	= Equiv Feet of Pipe
Square Ell: Diam Inch	× 5.5	= Equiv Feet of Pipe
Standard Ell: Diam Inch	× 2.5	= Equiv Feet of Pipe
Standard Tee: Diam Inch	× 6.0	= Equiv Feet of Pipe
Swing Check: Diam Inch	× 7.	= Equiv Feet of Pipe
Screw: Number Joints × (Inch Diam	× .1) + 2.3	= Inch Make-Up Loss
Pipe: Lap Weld: Inch Wall Thickness	× 1(5/o).	= psi Bursting × Inch OD
A-Smls: Inch Wall Thickness	× 1(5/o).	= psi Bursting × Inch OD
B-Smls: Inch Wall Thickness	× 12(4/o).	= psi Bursting × Inch OD
C-Smls: Inch Wall Thickness	× 15(4/o).	= psi Bursting × Inch OD
Actual Stress psi	× Safety Factor	= psi Ultimate Strength
Pipe: Lap Weld: (Inch Thick/Inch OD) Cubed	× 50210000.	= psi External-Collapse:-580 psi
× 86700	- 1388	= psi External-Collapse: +580 psi
Grade C: (Inch Thick/Inch OD) × 119690	- 1915	= psi External - Collapse
Grade D: (Inch Thick/Inch OD) × 151350	- 2422	= psi External - Collapse
Pipe: Steel: 1/2" (180F Hot Water): Heat Loss	= .546	= Btu/Hr/Ft/°F-20
1" (180F Hot Water): Heat Loss	= .819	= Btu/Hr/Ft/°F-20
2" (180F Hot Water): Heat Loss	= 1.412	= Btu/Hr/Ft/°F-20
1" Surface Area	× 1.25	= Equivalent Direct Radiation
Piston: Diameter Squared in Inch	× 4.	= Gallon/Minute (Approx.)
Square Root of Gallon/Minute	× .5	= Diameter of Piston
Plaster: Brown Coat: Lime Plaster: Sqft	× .08	= Mason-Hr (On Brick)
	× .075	= Mason-Hr (On Scratch)
	× .075	= Mason-Hr (On Plast. Board)
Port. Cement: Sqft	× .095	= Mason-Hr (On Brick)
	× .09	= Mason-Hr (On Scratch)
Pat. Plaster: Sqft	× .075	= Mason-Hr (On Brick)
	× .07	= Mason-Hr (On Scratch)
	× .07	= Mason-Hr (On Plast. Board)
Finish Coat: Caen Stone: Sqft	× .4	= Mason-Hr (On Brown Coat)
Floated Sand: Sqft	× .11	= Mason-Hr (On Brown Coat)
Hard Finish: Sqft	× .095	= Mason-Hr (On Brown Coat)
Keene Cement: Sqft	× .125	= Mason-Hr (On Brown Coat)
Sanded White: Sqft	× .1	= Mason-Hr (On Brown Coat)
White Skim: Sqft	× .085	= Mason-Hr (On Brown Coat)
Hoisting: Number of Stories	× .0015	= Elevator-Hour/Square Yard
Pound of Cement	× .05	= Pound of Lime (Lean)
	× .1	= Pound of Lime (Rich)
Ruling to Imitate Tile: Sqft	× .0025	= Laborer-Hour
	× .1	= Mason-Hr(Caen Stone)
	× .04	= Mason-Hr(Keenes)
	× .03	= Mason-Hr(Port. Cement)
	× .03	= Mason-Hr(Lime Plaster)
Running Ornamental: Sqft	× .08	= Laborer-Hr
	× .24	= Mason-Hr (Keenes)
	× .2	= Mason-Hr (Plaster)
	× .48	= Mason-Hr (Portland)
Plaster: Scratch: Portland Cement: Sqft	× .05	= Mason-Hr (On Brick)
	× .07	= Mason-Hr (On Metal Lath)
	× .055	= Mason-Hr (On Wood Lath)
Patent or Lime: Sqft	× .045	= Mason-Hr (On Brick)
	× .055	= Mason-Hr (On Concrete)

CONVERSION FACTORS

Plaster: Scratch: Patent or Lime: Sqft	× .06	= Mason-Hr (On Metal Lath)
	× .05	= Mason-Hr (On Wood Lath)
Specific Heat	= .20	= Btu/Pound/°F
Stucco Finish: Square Yard	× .12	= Helper-Hr(Pebble Dash)
	× .11	= Helper-Hr(Broomed)
	× .09	= Helper-Hr(Plain)
	× .11	= Helper-Hr(Sand Float)
	× .11	= Helper-Hr(Slap Dash)
	× .15	= Mason-Hr(Broomed)
	× .16	= Mason-Hr(Pebble Dash)
	× .12	= Mason-Hr(Plain)
	× .15	= Mason-Hr(Sand Float)
	× .15	= Mason-Hr(Slap Dash)
Plasterboard: 12" Nailing: Square Yard	× .2t" + .04	= Man-Hour Applying
16" Nailing: Square Yard	× .2t" + .03	= Man-Hour Applying
Square Yard	× 36t" + 4.5	= Pound Weight (t"=Thick Inch)
Plastic: Specific Heat	= .35	= Btu/Pound/°F
Plating: Aluminum: Amp × Second	× .4/o939	= Gram Deposited at Cathode
Chromium: Amp × Second	× .0001796	= Gram Deposited at Cathode
Copper: Amp × Second	× .0003294	= Gram Deposited at Cathode
Gold: Amp × Second	× .0006812	= Gram Deposited at Cathode
Hydrogen: Amp × Second	× .4/o1045	= Gram Deposited at Cathode
Nickel: Amp × Second	× .000304	= Gram Deposited at Cathode
Oxygen: Amp × Second	× .4/o8291	= Gram Deposited at Cathode
Silver: Amp × Second	× .00118	= Gram Deposited at Cathode
Oz/Sqft/Mil Thickness	× 12.	= Spg of Metal
Platinum: (Pt): #78:195.23 AW:		
Plowing: Average Soil: Cubic Yard	× .029	= Man-Hr (2-Horse Plow)
	× .0135	= Man-Hr (Tractor Plow)
Heavy Soil: Cubic Yard	× .03	= Man-Hr (2-Horse Plow)
	× .0145	= Man-Hr(Tractor Plow)
Soft Clay: Cubic Yard	× .05	= Man-Hr (2-Horse Plow)
	× .0225	= Man-Hr(Tractor Plow)
Stiff Clay: Cubic Yard	× .029	= Man-Hr(Tractor Plow)
Top Soil: Cubic Yard	× .025	= Man-Hr (2-Horse Plow)
	× .0115	= Man-Hr(Tractor Plow)
Plumbing: Branches Feet	× .09d" + .04	= Fitter + Helper-Hour
CI Subsurface Drain: Hour	× (15/d") + 1.	= Feet (Roughing)
CI Soil and Vent Stack: Hour	× (10/d") + 3.	= Feet
WI Soil and Vent Stack: Hour	× (8/d") + 2.	= Feet
1/2, 2"GI Water Pipe: Hour	× (3/d") + 6.	= Feet (Roughing)
2-1/2, 4" GI Water Pipe: Hour	× (10/d") + 1.	= Feet (Roughing)
Kitchen Sink: Roughing	= 10.	= Fitter and Helper-Hour
Kitchen Sink: Installing	= 5.	= Fitter and Helper-Hour
Mains on Ceiling: Feet	× .055d" + .03	= Fitter and Helper-Hour
Pair Wash Trays: Roughing	= 12.	= Fitter and Helper-Hour
Pair Wash Trays: Installing	= 10.	= Fitter and Helper-Hour
3-Piece Bath: Roughing	= 20.	= Fitter and Helper-Hour
Installing	= 15.	= Fitter and Helper-Hour
Pipe Size in Inch	× 1.5	= Pound Lead/Joint CI Pipe
	× .05	= Pound Oakum/Joint CI Pipe
Risers: Feet	× .04d" + .05	= Fitter and Helper-Hour
Plunger Pump: (Diameter in Inch	× .554) - .437	= K (Use Below)
Stroke in Inches (S")	× spm × K	= Barrel (42)/Day
Strokes/Minute (spm)	× S" × K	= Barrel (42)/Day
pOH Number	= log 1/OH-	
Point	× .035278	= Centimeter
	× .0138888	= Inch
Poise	× 100.	= Centipoise
	× 1.	= Dyne-Second/Sq Centimeter
	× 10000.	= Dyne-Second/Sq Meter
	× 6.45	= Dyne-Second/Sq Inch
	× 929.03	= Dyne-Second/Sq Foot
	× 1.	= Gram-Mass/Centimeter-Second
	× 60.	= Gram-Mass/Centimeter-Minute
	× 3600.	= Gram-Mass/Centimeter-Hour

Poise

Pole

Polygon: Irregular: D
P ar: Ap
Ra

Ponce

Poncelet

Poncelet-Hour

Ponds: Spray Pound
Sqft
Nozzl
Maxir

Pood

Porcelain: Specific
Porosity of Oil Sand
Potassium Chloride
Potassium: (K): #19

Poise	× 980.7	= Gram-Mass-Second/Sqcm
	× .001	= Kilogram-Mass/Centimeter-Second
	× .1	= Kilogram-Mass/Meter-Second
	× 6.	= Kilogram-Mass/Meter-Minute
	× 360.	= Kilogram-Mass/Meter-Hour
	× .010194	= Kilogram-Force-Second/Sq Meter
	× .02247	= Pound-Force-Second/Sq Meter
	× .4/o145	= Pound-Force-Second/Sq Inch
	× .00209	= Pound-Force-Second/Sq Foot
	× .6/o242	= Pound-Force-Minute/Sq Inch
	× .4/o348	= Pound-Force-Minute/Sq Foot
	× .4/o2204	= Pound-Mass/Centimeter-Second
	× .0056	= Pound-Mass/Inch-Second
	× .0672043	= Pound-Mass/Foot-Second
	× .001322	= Pound-Mass/Centimeter-Minute
	× .336	= Pound-Mass/Inch-Minute
	× 4.032	= Pound-Mass/Foot-Minute
	× .007837	= Pound-Mass/Centimeter-Hour
	× 20.16	= Pound-Mass/Inch-Hour
	× 241.935	= Pound-Mass/Foot-Hour
	× .4/o2204	= Poundal-Second/Sq Centimeter
	× .0056	= Poundal-Second/Sq Inch
	× .06720	= Poundal-Second/Sq Foot
	× .001322	= Poundal-Minute/Sq Centimeter
	× .336	= Poundal-Minute/Sq Inch
	× 4.032	= Poundal-Minute/Sq Foot
	× .007837	= Poundal-Hour/Sq Centimeter
	× 20.16	= Poundal-Hour/Sq Inch
	× 241.93	= Poundal-Hour/Sq Foot
	× Rhe	= 1.0
Pole	× 16.5	= Feet
	× 5.0292	= Meter
	× 1.	= Rod
	× 5.5	= Yard
Polygon: Irregular: Divide into Triangles. Compute. Add Areas for Total Area.		
Regular: Apothem × Perimeter	× .5	= Area
Radius Squared × Sides	× tan 180/Sides	= Area
Ponce	× 2.71	= Centimeter
	× 1.	= French Inch
Poncelet	× 3346.	= Btu/Hour
	× 55.77948	= Btu/Minute
	× .92957	= Btu/Second
	× 1(7/o).	= Erg/Second
	× 723.3	= Foot-Pound/Second
	× 1.33333	= Horsepower Metric
	× 1.31509	= Horsepower US
	× .23425	= Kilogram-Calorie/Second
	× 100.	= Kilogram-Meter/Second
	× .9806	= Kilowatt
	× 980.597	= Watt
Poncelet-Hour	× 2603880.	= Foot-Pound
	× 360000.	= Kilogram-Meter-Hour
Ponds: Spray: Pound Water Sprayed/Hour	× .005	= Sqft Pond Area Needed
Sqft Pond Area Needed	× 200.	= Pound Water Sprayed/Hour
Nozzle Pressure Should Be	= 7 - 10	= psi
Maximum Pond Depth	= 3	= Feet
Pood	× 1000.	= Cubic Inch
	× 40.	= Funt
	× 3.6	= Gallon British
	× 4.32	= Gallon US
	× 16.3805	= Kilogram
	× 36.112	= Pound Avoir US
Porcelain: Specific Heat	= .26	= Btu/Pound/°F
Porosity of Oil Sand in Percent	× 77.578	= Barrel (42) Acre-Foot
Potassium Chloride + Sodium Nitrate	= Potassium Nitrate + Sodium Chloride	

Potassium: (K): #19.39.096 AW: Val. + 1: SpHt .177: .87 gm/cc: MP 63.5C:BP 774C:

CONVERSION FACTORS

Potassium: Density: Liter	× 1.744	= Gram
Pottle	× 2.273	= Cubic Decimeter
	× 2.0	= Quart Liquid British
Poundal	× 13825.5	= Dyne
	× 14.0981	= Gram
	× .0140981	= Kilogram-Force
	× .001383	= Joule/Centimeter
	× .1383	= Joule/Meter
	× .1383	= Newton
	× .0310832	= Pound-Force
Poundal/Cubic Inch	× 843.683	= Dyne/Cubic Centimeter
	× .860378	= Gram/Cubic Centimeter
Poundal-Hour/Square Centimeter	× 12700.	= Centipoise
	× 127.	= Dyne-Second/Sq Centimeter
	× 1270000.	= Dyne-Second/Sq Meter
	× 820.	= Dyne-Second/Sq Inch
	× 118500.	= Dyne-Second/Sq Foot
	× 127.	= Gram-Mass/Centimeter-Second
	× 7650.	= Gram-Mass/Centimeter-Minute
	× 460000.	= Gram-Mass/Centimeter-Hour
	× .127	= Kilogram-Mass/Centimeter-Second
	× 12.7	= Kilogram Mass/Meter-Second
	× 765.	= Kilogram-Mass/Meter-Minute
	× 46000.	= Kilogram-Mass/Meter-Hour
	× 1.3	= Kilogram-Force-Second/Sq Meter
	× 127.	= Poise
	× 2.87	= Pound-Force-Second/Sq Meter
	× .00185	= Pound-Force-Second/Sq Inch
	× .266	= Pound-Force-Second/Sq Foot
	× .4/o309	= Pound-Force-Minute/Sq Inch
	× .00444	= Pound-Force-Minute/Sq Foot
	× .00281	= Pound-Mass/Centimeter-Second
	× .715	= Pound-Mass/Inch-Second
	× 8.57	= Pound-Mass/Foot-Second
	× .168	= Pound-Mass/Centimeter-Minute
	× 42.9	= Pound-Mass/Inch-Minute
	× 515.	= Pound-Mass/Foot-Minute
	× 1.0	= Pound-Mass/Centimeter-Hour
	× 2570.	= Pound-Mass/inch-Hour
	× 30900.	= Pound-Mass/Foot-Hour
	× .00281	= Poundal-Second/Sq Centimeter
	× .715	= Poundal-Second/Sq Inch
	× 8.57	= Poundal-Second/Sq Foot
	× .168	= Poundal-Minute/Sq Centimeter
	× 42.9	= Poundal-Minute/Sq Inch
	× 515.	= Poundal-Minute/Sq Foot
	× 2570.	= Poundal-Hour/Sq Inch
	× 30900.	= Poundal-Hour/Sq Foot
Poundal-Hour/Square Foot	× .414	= Centipoise
	× .00414	= Dyne-Second/Sq Centimeter
	× 41.4	= Dyne-Second/Sq Meter
	× .0267	= Dyne-Second/Sq Inch
	× 3.84	= Dyne-Second/Sq Foot
	× .00414	= Gram-Mass/Centimeter-Second
	× .248	= Gram-Mass/Centimeter-Minute
	× 14.9	= Gram-Mass/Centimeter-Hour
	× .5/o414	= Kilogram-Mass/Centimeter-Second
	× .000414	= Kilogram-Mass/Meter-Second
	× .0248	= Kilogram-Mass/Meter-Minute
	× 1.49	= Kilogram-Mass/Meter-Hour
	× .4/o421	= Kilogram-Force-Second/Sq Meter
	× .00414	= Poise
	× .4/o93	= Pound-Force-Second/Sq Meter
	× .7/o6	= Pound-Force-Second/Sq Inch
	× .5/o864	= Pound-Force-Second/Sq Foot
	× .8/o1	= Pound-Force-Meter/Sq Inch

Poundal-Hour/Square Foot	× .6/o144	= Pound-Force-Meter/Sq Foot
	× .7/o911	= Pound-Mass/Centimeter-Second
	× .4/o231	= Pound-Mass/Inch-Second
	× .3/o278	= Pound-Mass/Foot-Second
	× .5/o545	= Pound-Mass/Centimeter-Minute
	× .00139	= Pound-Mass/Inch-Minute
	× .0166	= Pound-Mass/Foot-Minute
	× .4/o324	= Pound-Mass/Centimeter-Hour
	× .0832	= Pound-Mass/Inch-Hour
	× 1.0	= Pound-Mass/Foot-Hour
	× .7/o911	= Poundal-Second/Sq Centimeter
	× .4/o231	= Poundal-Second/Sq Inch
	× .3/o278	= Poundal-Second/Sq Foot
	× .5/o545	= Poundal-Minute/Sq Centimeter
	× .00139	= Poundal-Minute/Sq Inch
	× .0166	= Poundal-Minute/Sq Foot
	× .4/o324	= Poundal-Hour/Sq Centimeter
	× .0832	= Poundal-Hour/Sq Inch
Poundal-Hour/Square Inch	× 4.96	= Centipoise
	× .0496	= Dyne-Second/Sq Centimeter
	× 496.	= Dyne-Second/Sq Meter
	× .32	= Dyne-Second/Sq Inch
	× 46.1	= Dyne-Second/Sq Foot
	× .0496	= Gram-Mass/Centimeter-Second
	× 2.98	= Gram-Mass/Centimeter-Minute
	× 178.	= Gram-Mass/Centimeter-Hour
	× .4/o496	= Kilogram-Mass/Centimeter-Second
	× .00496	= Kilogram-Mass/Meter-Second
	× .298	= Kilogram-Mass/Meter-Minute
	× 17.8	= Kilogram-Mass/Meter-Hour
	× .3/o505	= Kilogram-Force-Second/Sq Meter
	× .0496	= Poise
	× .2/o111	= Pound-Force-Second/Sq Meter
	× .6/o72	= Pound-Force-Second/Sq Inch
	× .000103	= Pound-Force-Second/Sq Foot
	× .7/o12	= Pound-Force-Meter/Sq Inch
	× .5/o172	= Pound-Force-Meter/Sq Foot
Poundal-Hour/Square Inch	× .5/o109	= Pound-Mass/Centimeter-Second
	× .3/o278	= Pound-Mass/Inch-Second
	× .00333	= Pound-Mass/Foot-Second
	× .4/o656	= Pound-Mass/Centimeter-Minute
	× .0167	= Pound-Mass/Inch-Minute
	× .2	= Pound-Mass/Foot-Minute
	× .000389	= Pound-Mass/Centimeter-Hour
	× 1.0	= Pound-Mass/Inch-Hour
	× 12.	= Pound-Mass/Foot-Hour
	× .5/o109	= Poundal-Second/Sq Centimeter
	× .3/o278	= Poundal-Second/Sq Inch
	× .00333	= Poundal-Second/Sq Foot
	× .4/o656	= Poundal-Minute/Sq Centimeter
	× .0167	= Poundal-Minute/Sq Inch
	× .2	= Poundal-Minute/Sq Foot
	× .000389	= Poundal-Hour/Sq Centimeter
	× 12.	= Poundal-Hour/Sq Foot
Poundal/Inch	× 5443.11	= Dyne/Centimeter
	× 5.55081	= Gram/Centimeter
	× .0310832	= Pound/Inch
Poundal-Minute/Square Centimeter	× 75700.	= Centipoise
	× 757.	= Dyne-Second/Sq Centimeter
	× 7570000.	= Dyne-Second/Sq Meter
	× 4870.	= Dyne-Second/Sq Inch
	× 702000.	= Dyne-Second/Sq Foot
	× 757.	= Gram-Mass/Centimeter-Second
	× 45400.	= Gram-Mass/Centimeter-Minute
	× 2720000.	= Gram-Mass/Centimeter-Hour
	× .757	= Kilogram-Mass/Centimeter-Second

CONVERSION FACTORS

Poundal-Minute/Square Centimeter	× 75.7	= Kilogram-Mass/Meter-Second
	× 4540.	= Kilogram Mass/Meter-Minute
	× 272000.	= Kilogram-Mass/Meter-Hour
	× 7.7	= Kilogram-Force-Second/Sq Meter
	× 757.	= Poise
	× 17.	= Pound-Force-Second/Sq Meter
	× .011	= Pound-Force-Second/Sq Inch
	× 1.58	= Pound-Force-Second/Sq Foot
	× .3/o183	= Pound-Force-Minute/Sq Inch
	× .0265	= Pound-Force-Minute/Sq Foot
Poundal-Minute/Square Centimeter	× .0166	= Pound-Mass/Centimeter-Second
	× 4.23	= Pound-Mass/Inch-Second
	× 50.8	= Pound-Mass/Foot-Second
	× 1.0	= Pound-Mass/Centimeter-Minute
	× 254.	= Pound-Mass/Inch-Minute
	× 3050.	= Pound-Mass/Foot-Minute
	× 5.92	= Pound-Mass/Centimeter-Hour
	× 15200.	= Pound-Mass/Inch-Hour
	× 183000.	= Pound-Mass/Foot-Hour
	× .0166	= Poundal-Second/Sq Centimeter
	× 4.23	= Poundal-Second/Sq Inch
	× 50.8	= Poundal-Second/Sq Foot
	× 254.	= Poundal-Minute/Sq Inch
	× 3050.	= Poundal-Minute/Sq Foot
	× 5.92	= Poundal-Hour/Sq Centimeter
	× 15200.	= Poundal-Hour/Sq Inch
	× 183000.	= Poundal-Hour/Sq Foot
Poundal-Minute/Square Foot	× 24.7	= Centipoise
	× .247	= Dyne-Second/Sq Centimeter
	× 2470.	= Dyne-Second/Sq Meter
	× 1.6	= Dyne-Second/Sq Inch
	× 230.	= Dyne-Second/Sq Foot
	× .247	= Gram-Mass/Centimeter-Second
	× 14.9	= Gram-Mass/Centimeter-Minute
	× 890.	= Gram-Mass/Centimeter-Hour
	× .000247	= Kilogram-Mass/Centimeter-Second
	× .0247	= Kilogram-Mass/Meter-Second
	× 1.49	= Kilogram-Mass/Meter-Minute
	× 89.	= Kilogram-Mass/Meter-Hour
	× .00252	= Kilogram-Force-Second/Sq Meter
	× .247	= Poise
	× .00556	= Pound-Force-Second/Sq Meter
	× .5/o359	= Pound-Force-Second/Sq Inch
	× .000517	= Pound-Force-Second/Sq Foot
	× .7/o6	= Pound-Force-Minute/Sq Inch
	× .5/o862	= Pound-Force-Minute/Sq Foot
	× .5/o556	= Pound-Mass/Centimeter-Second
	× .00138	= Pound-Mass/Inch-Second
	× .0166	= Pound-Mass/Foot-Second
	× .000327	= Pound-Mass/Centimeter-Minute
	× .0834	= Pound-Mass/Inch-Minute
	× 1.0	= Pound-Mass/Foot-Minute
	× .0019	= Pound-Mass/Centimeter-Hour
	× 5.	= Pound-Mass/Inch-Hour
	× 60.	= Pound-Mass/Foot-Hour
	× .5/o556	= Poundal-Second/Sq Centimeter
	× .00138	= Poundal-Second/Sq Inch
	× .0166	= Poundal-Second/Sq Foot
	× .000327	= Poundal-Minute/Sq Centimeter
	× .0834	= Poundal-Minute/Sq Inch
	× .0019	= Poundal-Hour/Sq Centimeter
	× 5.	= Poundal-Hour/Sq Inch
	× 60.	= Poundal-Hour/Sq Foot
Poundal-Minute/Square Inch	× 298.	= Centipoise
	× 2.98	= Dyne-Second/Sq Centimeter
	× 29800.	= Dyne-Second/Sq Meter

Poundal-Minute/Square Inch	× 19.2	= Dyne-Second/Sq Inch
	× 2760.	= Dyne-Second/Sq Foot
	× 2.98	= Gram-Mass/Centimeter-Second
	× 1.78	= Gram-Mass/Centimeter-Minute
	× 10700.	= Gram-Mass/Centimeter-Hour
	× .00298	= Kilogram-Mass/Centimeter-Second
	× .298	= Kilogram-Mass/Meter-Second
	× 17.8	= Kilogram-Mass/Meter-Minute
	× 1070.	= Kilogram-Mass/Meter-Hour
	× .0303	= Kilogram-Force-Second/Sq Meter
	× 2.98	= Poise
	× .067	= Pound-Force-Second/Sq Meter
	× .4/o432	= Pound-Force-Second/Sq Inch
	× .00622	= Pound-Force-Second/Sq Foot
	× .6/o72	= Pound-Force-Minute/Sq Inch
	× .3/o103	= Pound-Force-Minute/Sq Foot
	× .4/o656	= Pound-Mass/Centimeter-Second
Poundal-Minute/Square Inch	× .0166	= Pound-Mass/Inch-Second
	× .2	= Pound-Mass/Foot-Second
	× .00393	= Pound-Mass/Centimeter-Minute
	× 1.0	= Pound-Mass/Inch-Minute
	× 12.	= Pound-Mass/Foot-Minute
	× .0233	= Pound-Mass/Centimeter-Hour
	× 60.	= Pound-Mass/Inch-Hour
	× 720.	= Pound-Mass/Foot-Hour
	× .4/o656	= Poundal-Second/Sq Centimeter
	× .0166	= Poundal-Second/Sq Inch
	× .2	= Poundal-Second/Sq Foot
	× .00395	= Poundal-Minute/Sq Centimeter
	× 12.	= Poundal-Minute/Sq Foot
	× .0233	= Poundal-Hour/Sq Centimeter
	× 60.	= Poundal-Hour/Sq Inch
	× 720.	= Poundal-Hour/Sq Foot
Poundal-Second/Square Centimeter	× 4540000.	= Centipoise
	× 45400.	= Dyne-Second/Sq Centimeter
	× 454(6/o).	= Dyne-Second/Sq Meter
	× 292000.	= Dyne-Second/Sq Inch
	× 421(5/o).	= Dyne-Second/Sq Foot
	× 45400.	= Gram-Mass/Centimeter-Second
	× 2720000.	= Gram-Mass/Centimeter-Minute
	× 163(6/o).	= Gram-Mass/Centimeter-Hour
	× 45.4	= Kilogram-Mass/Centimeter-Second
	× 4540.	= Kilogram-Mass/Meter-Second
	× 272000.	= Kilogram-Mass/Meter-Minute
	× 165(5/o).	= Kilogram-Mass/Meter-Hour
	× 462.	= Kilogram-Force-Second/Sq Meter
	× 45400.	= Poise
	× 1020.	= Pound-Force-Second/Sq Meter
	× .658	= Pound-Force-Second/Sq Inch
	× 94.8	= Pound-Force-Second/Sq Foot
	× .0109	= Pound-Force-Minute/Sq Inch
	× 1.58	= Pound-Force-Minute/Sq Foot
	× 1.0	= Pound-Mass/Centimeter-Second
	× 254.	= Pound-Mass/Inch-Second
	× 3050.	= Pound-Mass/Foot-Second
	× 60.1	= Pound-Mass/Centimeter-Minute
	× 15200.	= Pound-Mass/Inch-Minute
	× 182000.	= Pound-Mass/Foot-Minute
	× 356.	= Pound-Mass/Centimeter-Hour
	× 914000.	= Pound-Mass/Inch-Hour
	× 109(5/o).	= Pound-Mass/Foot-Hour
	× 254.	= Poundal-Second/Sq Inch
	× 3050.	= Poundal-Second/Sq Foot
	× 60.1	= Poundal-Minute/Sq Centimeter
	× 15200.	= Poundal-Minute/Sq Inch
	× 182000.	= Poundal-Minute/Sq Foot

CONVERSION FACTORS

Poundal-Second/Square Centimeter	× 356.	= Poundal-Hour/Sq Centimeter
	× 914000.	= Poundal-Hour/Sq Inch
	× 109(5/o).	= Poundal-Hour/Sq Foot
Poundal-Second/Square Foot	× 1488.	= Centipoise
	× 14.88	= Dyne-Second/Sq Centimeter
	× 148800.	= Dyne-Second/Sq Meter
	× 96.	= Dyne-Second/Sq Inch
	× 13800.	= Dyne-Second/Sq Foot
	× 14.88	= Gram-Mass/Centimeter-Second
	× 894.	= Gram-Mass Centimeter-Minute
	× 53500.	= Gram-Mass/Centimeter-Hour
	× .01488	= Kilogram-Mass/Centimeter-Second
	× 1.488	= Kilogram-Mass/Meter-Second
	× 89.4	= Kilogram-Mass/Meter-Minute
	× 5350.	= Kilogram-Mass/Meter-Hour
	× .151	= Kilogram-Force-Second/Sq Meter
	× 14.88	= Poise
	× .334	= Pound-Force-Second/Sq Meter
	× .000216	= Pound-Force-Second/Sq Inch
	× .0311	= Pound-Force-Second/Sq Foot
	× .5/o36	= Pound-Force-Minute/Sq Inch
	× .000517	= Pound-Force-Minute/Sq Foot
Poundal-Second/Square Foot	× .3/o328	= Pound-Mass/Centimeter-Second
	× .0832	= Pound-Mass/Inch-Second
	× 1.0	= Pound-Mass/Foot-Second
	× .0196	= Pound-Mass/Centimeter-Minute
	× 5.	= Pound-Mass/Inch-Minute
	× 60.	= Pound-Mass/Foot-Minute
	× .116	= Pound-Mass/Centimeter-Hour
	× 300.	= Pound-Mass/Inch-Hour
	× 3600.	= Pound-Mass/Foot-Hour
	× .3/o328	= Poundal-Second/Sq Centimeter
	× .0832	= Poundal-Second/Sq Inch
	× .0196	= Poundal-Minute/Sq Centimeter
	× 5.	= Poundal-Minute/Sq Inch
	× 60.	= Poundal-Minute/Sq Foot
	× .116	= Poundal-Hour/Sq Centimeter
	× 300.	= Poundal-Hour/Sq Inch
	× 3600.	= Poundal-Hour/Sq Foot
Poundal-Second/Square Inch	× 17800.	= Centipoise
	× 178.	= Dyne-Second/Sq Centimeter
	× 1780000.	= Dyne-Second/Sq Meter
	× 1150.	= Dyne-Second/Sq Inch
	× 166000.	= Dyne-Second/Sq Foot
	× 178.	= Gram-Mass/Centimeter-Second
	× 10700.	= Gram-Mass/Centimeter-Minute
	× 643000.	= Gram-Mass/Centimeter-Hour
	× .178	= Kilogram-Mass/Centimeter-Second
	× 17.8	= Kilogram-Mass/Meter-Second
	× 1070.	= Kilogram-Mass/Meter-Minute
	× 64300.	= Kilogram-Mass/Meter-Hour
	× 1.82	= Kilogram-Force-Second/Sq Meter
	× 178.	= Poise
	× 4.01	= Pound-Force-Second/Sq Meter
	× .00259	= Pound-Force-Second/Sq Inch
	× .373	= Pound-Force-Second/Sq Foot
	× .4/o43	= Pound-Force-Minute/Sq Inch
	× .0062	= Pound-Force-Minute/Sq Foot
Poundal-Second/Square Inch	× .00394	= Pound-Mass/Centimeter-Second
	× 1.0	= Pound-Mass/Inch-Second
	× 12.	= Pound-Mass/Foot-Second
	× .236	= Pound-Mass/Centimeter-Minute
	× 60.	= Pound-Mass/Inch-Minute
	× 720.	= Pound-Mass/Foot-Minute
	× 1.4	= Pound-Mass/Centimeter-Hour
	× 3600.	= Pound-Mass/Inch-Hour

Poundal-Second/Square Inch	× 4325.	= Pound-Mass/Foot-Hour
	× .00394	= Poundal-Second/Sq Centimeter
	× 12.	= Poundal-Second/Sq Foot
	× .236	= Poundal-Minute/Sq Centimeter
	× 60.	= Poundal-Minute/Sq Inch
	× 720.	= Poundal-Minute/Sq Foot
	× 1.4	= Poundal-Hour/Sq Centimeter
	× 3600.	= Poundal-Hour/Sq Inch
	× 4325.	= Poundal-Hour/Sq Foot
Poundal/Square Inch	× 2142.97	= Dyne/Square Centimeter
	× 2.18536	= Gram/Square Centimeter
	× .031081	= Pound/Square Inch
Pound Apothecaries and Troy	× 22.816	= Cubic Inch Water 62F
	× 210.5614	= Dram Avoir
	× 96.	= Dram Troy
	× 5760.	= Grain Apoth-Troy-Avoir
	× 373.24	= Gram
	× .37324177	= Kilogram
	× 373241.77	= Milligram
	× 12.	= Ounce Apoth-Troy
	× 13.1657	= Ounce Avoir
	× 240.	= Pennyweight Troy
	× .8228571	= Pound Avoir
	× 288.	= Scruple Troy
	× .3/o3673	= Ton Long
	× .3/o3732	= Ton Metric
	× .3/o4114	= Ton Short
Pound Avoirdupois	× 2267.9616	= Carat
	× .01	= Cwt
	× 116.6667	= Dram Apoth
	× 256.	= Dram Avoir
	× 7000.	= Grain
	× 453.5924277	= Gram
	× .00893	= Hundredweight Long
	× .01	= Hundredweight Short
	× .45359245	= Kilogram (England)
	× .4535924277	= Kilogram (US)
	× 453592.42	= Milligram
	× 291.6667	= Pennyweight
	× 14.5833	= Ounce Apoth-Troy
	× 16.	= Ounce Avoir
	× 32.174	= Poundal
	× 1.21528	= Pound Apoth-Troy
	× 350.	= Scruple
	× .031081	= Slug
	× .0004464	= Ton Long
	× .3/o453592	= Ton Metric
	× .0005	= Ton Short
Pound Avoirdupois × Feet/Minute	× .4/o30303	= HP to Hoist Vertical
Pound Avoirdupois/Day	× 18.89969	= Gram/Hour
	× .45359	= Kilogram/Day
	× 5.24991	= Milligram/Second
	× .66667	= Ounce Avoir/Hour
	× .041667	= Pound Avoir/Hour
	× .16567	= Ton Metric/Year
	× .18262	= Ton Short Avoir/Year
Pound Avoirdupois/Hour	× 453.59243	= Gram/Hour
	× 10.88622	= Kilogram/Day
	× 125.99790	= Milligram/Second
	× 16.	= Ounce Avoir/Hour
	× 24.	= Pound Avoir/Day
	× 3.97611	= Ton Metric/Year
	× 4.38291	= Ton Short/Year
Pound Avoirdupois/Kilo-Foot	× 1.488	= Kilogram/Kilometer
Pound/Bushel	× .01287	= Gram/Cubic Centimeter
	× 12.8718	= Kilogram/Cubic Meter

CONVERSION FACTORS

Pound/Bushel	× 1.28718	= Kilogram/Hectoliter
	× .80356	= Pound/Cubic Foot
	× .000465	= Pound/Cubic Inch
	× 21.6962	= Pound/Cubic Yard
	× .125	= Pound/Gallon Dry US
	× .10742	= Pound/Gallon Liquid US
Pound-Calorie	× 1.8	= Btu
	× 453.6	= Gram-Calorie
	× .4536	= Kilogram-Calorie
	× 453.474	= Mean Calorie
	× 4.53474	= Ostwald Calorie
Pound Centigrade Heat Unit (lb-Chu)	× 1.8	= Btu
	× 453.6	= Gram-Calorie
	× 1399.5	= Foot-Pound
	× .4/o70686	= Horsepower US-Hour
	× .3/o71718	= Horsepower-Metric-Hour
	× 2.57968	= Horsepower-Metric-Second
	× 2.5346	= Horsepower US-Second
	× 1897.2	= Joule
	× .4536	= Kilogram-Calorie
	× 193.5	= Kilogram-Meter
	× .3/o52704	= Kilowatt-Hour
	× 1.89881	= Kilowatt-Second
	× 1.0	= pcu
	× 1.0	= Pound-Chu
	× .52704	= Watt-Hour
Pound-Chu	× 1.0	= Pound Centigrade Heat Unit
Pound-Chu/Hr-Sqft/Ft/°C	× .00413	= Gram-Cal/Sec-Sqcm/cm/°C
	× 173.	= Kilo-Erg/Sec-Sqcm/cm/°C
	× .0173	= Watt/Sqcm/cm/°C
Pound/Cubic Foot	× .0160184	= Gram/Cubic Centimeter
	× 16.0184	= Kilogram/Cubic Meter
	× 1.60184	= Kilogram/Hectoliter
	× 1.24446	= Pound/Bushel US
	× .0005787	= Pound/Cubic Inch
	× 27.	= Pound/Cubic Yard
	× .031081	= Pound-Force Density
	× .15555	= Pound/Gallon Dry US
	× .13368	= Pound/Gallon Liquid US
	× Cubic Foot	= Pound-Mass
	× .8/o5456	= Pound/Mil-Foot
	× .031081	= Slug/Cubic Foot
	× .016037206	= Specific Gravity 62F
	× .016034377	= Specific Gravity 60F
	× .016019222	= Specific Gravity 39.1F
	× .012054	= Ton Long/Cu Yard
	× .01602	= Ton Metric/Cu Meter
	× .0005	= Ton Short/Cubic Foot
	× .0135	= Ton Short/Cubic Yard
Pound/Cubic Inch	× 27.67974	= Gram/Cubic Centimeter
	× 27679.74	= Kilogram/Cubic Meter
	× 2767.97	= Kilogram/Hectoliter
	× 2150.42688	= Pound/Bushel US Struck
	× 1728.	= Pound/Cubic Foot
	× 46656.	= Pound/Cubic Yard
	× 268.803	= Pound/Gallon Dry US
	× 231.	= Pound/Gallon Liquid US
	× .5/o9425	= Pound/Mil-Foot
	× 27.681	= Specific Gravity 39.1F
	× 27.712	= Specific Gravity 62F
	× 27.707	= Specific Gravity 60F
	× 20.83	= Ton Long/Cubic Yard
	× 27.68	= Ton Metric/Cubic Yard
	× .864	= Ton Short/Cubic Foot
	× 23.33	= Ton Short/Cubic Yard
Pound/Cubic Yard	× .000593272	= Gram/Cubic Centimeter

Pound/Cubic Yard	× .59327	= Kilogram/Cubic Meter
	× .059327	= Kilogram/Hectoliter
	× .04609	= Pound/Bushel US Struck
	× .037037	= Pound/Cubic Foot
	× .4/o214334	= Pound/Cubic Inch
	× .005761	= Pound/Gallon Dry US
	× .004951	= Pound/Gallon Liquid US
	× .0004464	= Ton Long/Cubic Yard
	× .005933	= Ton Metric/Cubic Meter
	× .0005	= Ton Short/Cubic Yard
Pound-Foot	× 13560000.	= Dyne-Centimeter
	× 13830.	= Gram-Centimeter
	× .1383	= Kilogram-Meter
	× 1.305	= Newton-Meter
Pound/Foot	× 583.333	= Grain/Inch
	× 14.88161	= Gram/Centimeter
	× 37.79937	= Gram/Inch
	× 1488.16	= Kilogram/Kilometer
	× 1.4881459	= Kilogram/Meter
	× .0833	= Pound/Inch
	× 3.0	= Pound/Yard
Pound-Foot Squared	× 421434.	= Gram-Centimeter Squared
	× .0421434	= Kilogram-Meter Squared
	× 144.	= Pound-Inch Squared
	× .0310811	= Slug-Foot Squared
Pound-Force-Apoth	× 366025.	= Dyne
Pound-Force-Avoir	× 444822.	= Dyne
	× 32.174	= Feet/Second/Second
	× Foot Height	= Foot-Pound Potential Energy
	× 453.5924277	= Gram-Force
	× .0448	= Joule/Centimeter
	× 4.448	= Joule/Meter
	× .45359	= Kilogram
	× .4536	= Kilogram-Force
	× 4.448	= Newton
	× 32.174	= Poundal
	× 1.	= Pound-Force-Avoir
	× .031081	= Pound-Mass
	× 1.	= Pound-Weight
Pound-Force-Foot/Pound-Mass-°F	= R	= (Specific Heat Constant)
Pound-Force × Foot/Pound-Mass × °F	= R	= SpHt Constant
× Second Squared	= Pound-Force Density × Foot Fourth Power	
× Sp Heat Btu/lb-° F × °F	× Second Squared	= Btu × Foot
Pound-Force Density	× 32.174	= Pound/Cubic Foot Density
× Foot Fourth Power	= Pound-Force	× Second Squared
× Kinematic Vis Sqft/sec		= Abs Vis Pound-Force-sec/Sqft
Pound-Force-Minute/Sq Foot	× 2870000.	= Centipoise
	× 28700.	= Dyne-Second/Sq Centimeter
	× 287(6/o).	= Dyne-Second/Sq Meter
	× 18500.	= Dyne-Second/Sq Inch
	× 267(5/o).	= Dyne-Second/Sq Foot
	× 28700.	= Gram-Mass/Centimeter-Second
	× 1720000.	= Gram-Mass/Centimeter-Minute
	× 1035(5/o).	= Gram-Mass/Centimeter-Hour
	× 28.7	= Kilogram-Mass/Centimeter-Second
	× 2870.	= Kilogram-Mass/Meter-Second
	× 172000.	= Kilogram-Mass/Meter-Minute
	× 10350000.	= Kilogram-Mass/Meter-Hour
	× 293.	= Kilogram-Force-Second/Sq Meter
	× 28700.	= Poise
	× 645.	= Pound-Force-Second/Sq Meter
	× .416	= Pound-Force-Second/Sq Inch
	× 60.	= Pound-Force-Second/Sq Foot
	× .00695	= Pound-Force-Second/Sq Inch
Pound-Force-Minute/Sq Foot	× .634	= Pound-Mass/Centimeter-Second
	× 161.	= Pound-Mass/Inch-Second

Pound-Force-Minute/Sq Foot	× 1930.	= Pound-Mass/Foot-Second
	× 38.	= Pound-Mass/Centimeter-Minute
	× 96600.	= Pound-Mass/Inch-Minute
	× 116000.	= Pound-Mass/Foot-Minute
	× 225.	= Pound-Mass/Centimeter-Hour
	× 579000.	= Pound-Mass/Inch-Hour
	× 6950000.	= Pound-Mass/Foot-Hour
	× .634	= Poundal-Second/Sq Centimeter
	× 161.	= Poundal-Second/Sq Inch
	× 1930.	= Poundal-Second/Sq Foot
	× 38.	= Poundal-Minute/Sq Centimeter
	× 96600.	= Poundal-Minute/Sq Inch
	× 116000.	= Poundal-Minute/Sq Foot
	× 225.	= Poundal-Hour/Sq Centimeter
	× 579000.	= Poundal-Hour/Sq Inch
	× 6950000.	= Poundal-Hour/Sq Foot
Pound-Force-Minute/Square Inch	× 414(6/o).	= Centipoise
	× 4140000.	= Dyne-Second/Sq Centimeter
	× 414(8/o).	= Dyne-Second/Sq Meter
	× 267(5/o).	= Dyne-Second/Sq Inch
	× 384(7/o).	= Dyne-Second/Sq Foot
	× 4140000.	= Gram-Mass/Centimeter-Second
	× 248(6/o).	= Gram-Mass/Centimeter-Minute
	× 149(8/o).	= Gram-Mass/Centimeter-Hour
	× 4140.	= Kilogram-Mass/Centimeter-Second
	× 414000.	= Kilogram-Mass/Meter-Second
	× 248(5/o).	= Kilogram-Mass/Meter-Minute
	× 149(7/o).	= Kilogram-Mass/Meter-Hour
	× 42100.	= Kilogram-Force-Second/Sq Meter
	× 4140000.	= Poise
	× 93000.	= Pound-Force-Second/Sq Meter
	× 60.	= Pound-Force-Second/Sq Inch
	× 8640.	= Pound-Force-Second/Sq Foot
	× 144.	= Pound-Force-Minute/Sq Foot
Pound-Force-Minute/Square Inch	× 91.1	= Pound-Mass/Centimeter-Second
	× 23100.	= Pound-Mass/Inch-Second
	× 278000.	= Pound-Mass/Foot-Second
	× 5450.	= Pound-Mass/Centimeter-Minute
	× 1390000.	= Pound-Mass/Inch-Minute
	× 166(5/o).	= Pound-Mass/Foot-Minute
	× 32400.	= Pound-Mass/Centimeter-Hour
	× 832(5/o).	= Pound-Mass/Inch-Hour
	× 9990000.	= Pound-Mass/Foot-Hour
	× 91.1	= Poundal-Second/Sq Centimeter
	× 23100.	= Poundal-Second/Sq Inch
	× 278000.	= Poundal-Second/Sq Foot
	× 5450.	= Poundal-Minute/Sq Centimeter
	× 1390000.	= Poundal-Minute/Sq Inch
	× 166(5/o).	= Poundal-Minute/Sq Foot
	× 32400.	= Poundal-Hour/Sq Centimeter
	× 832(5/o).	= Poundal-Hour/Sq Inch
	× 9990000.	= Poundal-Hour/Sq Foot
Pound-Force-Second/Square Foot	× 478000.	= Centipoise
	× 478.	= Dyne-Second/Sq Centimeter
	× 4780000.	= Dyne-Second/Sq Meter
	× 3080.	= Dyne-Second/Sq Inch
	× 445000.	= Dyne-Second/Sq Foot
	× 478.	= Gram-Mass/Centimeter-Second
	× 28700.	= Gram-Mass/Centimeter-Minute
	× 1720000.	= Gram-Mass/Centimeter-Hour
	× .478	= Kilogram-Mass/Centimeter-Second
	× 47.8	= Kilogram-Mass/Meter-Second
	× 2870.	= Kilogram-Mass/Meter-Minute
	× 172000.	= Kilogram-Mass/Meter-Hour
	× 4.87	= Kilogram-Force-Second/Sq Meter
	× 478.	= Poise

Pound-Force-Second/Square Foot	× 10.7	= Pound-Force-Second/Sq Meter
	× .00694	= Pound-Force-Second/Sq Inch
	× .000115	= Pound-Force-Minute/Sq Inch
	× .0166	= Pound-Force-Minute/Sq Foot
	× .0105	= Pound-Mass/Centimeter-Second
	× 2.68	= Pound-Mass/Inch-Second
	× 32.2	= Pound-Mass/Foot-Second
	× .632	= Pound-Mass/Centimeter-Minute
	× 161.	= Pound-Mass/Inch-Minute
	× 1930.	= Pound-Mass/Foot-Minute
	× 3.74	= Pound-Mass/Centimeter-Hour
	× 9650.	= Pound-Mass/Inch-Hour
	× 115000.	= Pound-Mass/Foot-Hour
	× .0105	= Poundal-Second/Sq Centimeter
	× 2.68	= Poundal-Second/Sq Inch
	× 32.2	= Poundal-Second/Sq Foot
	× .632	= Poundal-Minute/Sq Centimeter
	× 161.	= Poundal-Minute/Sq Inch
	× 1930.	= Poundal-Minute/Sq Foot
	× 3.74	= Poundal-Hour/Sq Centimeter
	× 9650.	= Poundal-Hour/Sq Inch
	× 115000.	= Poundal-Hour/Sq Foot
Pound-Force-Second/Square Inch	× 69(5/o).	= Centipoise
	× 69000.	= Dyne-Second/Sq Centimeter
	× 69(7/o).	= Dyne-Second/Sq Meter
	× 445000.	= Dyne-Second/Sq Inch
	× 64(6/o).	= Dyne-Second/Sq Foot
	× 69000.	= Gram-Mass/Centimeter-Second
	× 4140000.	= Gram-Mass/Centimeter-Minute
	× 248(6/o).	= Gram-Mass/Centimeter-Hour
	× 69.	= Kilogram-Mass/Centimeter-Second
	× 6900.	= Kilogram-Mass/Meter-Second
	× 414000.	= Kilogram-Mass/Meter-Minute
	× 248(5/o).	= Kilogram-Mass/Meter-Hour
	× 703.	= Kilogram-Force-Second/Sq Meter
	× 69000.	= Poise
	× 1550.	= Pound-Force-Second/Sq Meter
	× 144.	= Pound-Force-Second/Sq Foot
	× .0167	= Pound-Force-Minute/Sq Inch
	× 2.4	= Pound-Force-Minute/Sq Foot
Pound-Force-Second/Square Inch	× 1.52	= Pound-Mass/Centimeter-Second
	× 386.	= Pound-Mass/Inch-Second
	× 4640.	= Pound-Mass/Foot-Second
	× 91.2	= Pound-Mass/Centimeter-Minute
	× 23200.	= Pound-Mass/Inch-Minute
	× 2780.	= Pound-Mass/Foot-Minute
	× 540.	= Pound-Mass/Centimeter-Hour
	× 1390000.	= Pound-Mass/Inch-Hour
	× 16660000.	= Pound-Mass/Foot-Hour
	× 1.52	= Poundal-Second/Sq Centimeter
	× 386.	= Poundal-Second/Sq Inch
	× 4640.	= Poundal-Second/Sq Foot
	× 91.2	= Poundal-Minute/Sq Centimeter
	× 23200.	= Poundal-Minute/Sq Inch
	× 2780.	= Poundal-Minute/Sq Foot
	× 540.	= Poundal-Hour/Sq Centimeter
	× 1390000.	= Poundal-Hour/Sq Inch
	× 16660000.	= Poundal-Hour/Sq Foot
Pound-Force-Second/Square Meter	× 4450.	= Centipoise
	× 44.5	= Dyne-Second/Sq Centimeter
	× 445000.	= Dyne-Second/Sq Meter
	× 287.	= Dyne-Second/Sq Inch
	× 41400.	= Dyne-Second/Sq Foot
	× 44.5	= Gram-Mass/Centimeter-Second
	× 2670.	= Gram-Mass/Centimeter-Minute
	× 160000.	= Gram-Mass/Centimeter-Hour

P — CONVERSION FACTORS

Pound-Force-Second/Square Meter	× .0445	= Kilogram-Mass/Centimeter-Second
	× 4.45	= Kilogram-Mass/Meter-Second
	× 267.	= Kilogram-Mass/Meter-Minute
	× 16000.	= Kilogram-Mass/Meter-Hour
	× .454	= Kilogram-Force-Second/Sq Meter
	× 44.5	= Poise
	× .000645	= Pound-Force-Second/Sq Inch
	× .093	= Pound-Force-Second/Sq Foot
	× .5/o107	= Pound-Force-Minute/Sq Inch
	× .00155	= Pound-Force-Minute/Sq Foot
	× .0098	= Pound-Mass/Centimeter-Second
	× .249	= Pound-Mass/Inch-Second
	× 2.99	= Pound-Mass/Foot-Second
	× .0588	= Pound-Mass/Centimeter-Minute
	× 14.9	= Pound-Mass/Inch-Minute
	× 179.	= Pound-Mass/Foot-Minute
	× .348	= Pound-Mass/Centimeter-Hour
	× 896.	= Pound-Mass/Inch-Hour
	× 10750.	= Pound-Mass/Foot-Hour
	× .0098	= Poundal-Second/Sq Centimeter
	× .249	= Poundal-Second/Sq Inch
	× 2.99	= Poundal-Second/Sq Foot
	× .0588	= Poundal-Minute/Sq Centimeter
	× 14.9	= Poundal-Minute/Sq Inch
	× 179.	= Poundal-Minute/Sq Foot
	× .348	= Poundal-Hour/Sq Centimeter
	× 896.	= Poundal-Hour/Sq Inch
	× 10750.	= Poundal-Hour/Sq Foot
Pound/Gallon Dry US	× .102974	= Gram/Cubic Centimeter
	× 102.974	= Kilogram/Cubic Meter
	× 10.2974	= Kilogram/Hectoliter
	× 8.	= Pound/Bushel US Struck
	× 6.42851	= Pound/Cubic Foot
	× .003720	= Pound/Cubic Inch
	× 173.570	= Pound/Cubic Yard
	× .85937	= Pound/Gallon Liquid US
Pound/Gallon Liquid US	× .119826	= Gram/Cubic Centimeter
	× 119.826	= Kilogram/Cubic Meter
	× 11.9826	= Kilogram/Hectoliter
	× 9.30920	= Pound/Bushel US Struck
	× 7.480519	= Pound/Cubic Foot
	× .004329	= Pound/Cubic Inch
	× 201.9735	= Pound/Cubic Yard
	× 1.16365	= Pound/Gallon Dry US
	× .09017	= Ton Long/Cubic Yard
	× .1198	= Ton Metric/Cubic Meter
	× .00374	= Ton Short/Cubic Foot
	× .1010	= Ton Short/Cubic Yard
Pound/Hour-Square Foot	× 1.0	= Mass Velocity Unit
Pound/HP-Hour × Reaction Voltage	= 1.6457	× Gram/Ampere-Hour
Pound/HP-Year × Reaction Voltage	= 14426.5	× Gram/Ampere-Hour
Pound/Inch	× 178.577508	= Gram/Centimeter
	× 453.5883735	= Gram/Inch
	× 17.8577	= Kilogram/Meter
	× 12.	= Pound/Foot
	× 36.	= Pound/Yard
	× 28.2857	= Ton Long/Mile
	× 17.8577	= Ton Metric/Kilometer
	× 31.6800	= Ton Short/Mile
Pound-Inch Squared	× 2926.6	= Gram-Centimeter Squared
	× .00029266	= Kilogram-Meter Squared
	× .006944	= Pound-Foot Squared
	× .000215841	= Pound-Inch Squared
Pound-Mass	× °C	= Chu
	× 453.5924277	= Gram-Mass
	× .45359	= Kilogram-Mass

Pound-Mass

Pound-Mass (British
Pound-Mass × Feet/
Pound-Mass of Matt
Pound-Mass × Spec
Pound-Mass/Centim

Pound-Mass/Centim

Pound-Mass/Centi

Pound-Mass	× .046253	= Kilogram-Slug Mass
	× 32.174	= Pound-Force
	× fps Squared	= Pound-Force
	× .031081	= Slug Mass
Pound-Mass (British Absolute)	× 1.0	= Poundal/Foot/Second Squared
Pound-Mass × Feet/Second Squared	× .01554	= Foot-Pound Kinetic Energy
Pound-Mass of Matter	× 35(11/o).	= Btu (Energy)
Pound-Mass × Specific Heat Btu/Lb-°F	× °F	= Btu
Pound-Mass/Centimeter-Hour	× 12700.	= Centipoise
	× 127.	= Dyne-Second/Sq Centimeter
	× 1270000.	= Dyne-Second/Sq Meter
	× 820.	= Dyne-Second/Sq Inch
	× 118500.	= Dyne-Second/Sq Foot
	× 127.	= Gram-Mass/Centimeter-Second
	× 7650.	= Gram-Mass/Centimeter-Minute
	× 460000.	= Gram-Mass/Centimeter-Hour
	× .127	= Kilogram-Mass/Centimeter-Second
	× 12.7	= Kilogram-Mass/Meter-Second
	× 765.	= Kilogram-Mass/Meter-Minute
	× 46000.	= Kilogram-Mass/Meter-Hour
	× 1.3	= Kilogram-Force-Second/Sq Meter
	× 127.	= Poise
	× 2.87	= Pound-Force-Second/Sq Meter
	× .00185	= Pound-Force-Second/Sq Inch
	× .266	= Pound-Force-Second/Sq Foot
	× .4/o309	= Pound-Force-Minute/Sq Inch
	× .00444	= Pound-Force-Minute/Sq Foot
	× .00281	= Pound-Mass/Centimeter-Second
	× .715	= Pound-Mass/Inch-Second
	× 8.57	= Pound-Mass/Foot-Second
	× .168	= Pound-Mass/Centimeter-Minute
	× 42.9	= Pound-Mass/Inch-Minute
	× 515.	= Pound-Mass/Foot-Minute
	× 2570.	= Pound-Mass/Inch-Hour
	× 30900.	= Pound-Mass/Foot-Hour
	× .00281	= Poundal-Second/Sq Centimeter
	× .715	= Poundal-Second/Sq Inch
	× 8.57	= Poundal-Second/Sq Foot
	× .168	= Poundal-Minute/Sq Centimeter
	× 42.9	= Poundal-Minute/Sq Inch
	× 515	= Poundal-Minute/Sq Foot
	× 1.0	= Poundal-Hour/Sq Centimeter
	× 2570.	= Poundal-Hour/Sq Inch
	× 30900.	= Poundal-Hour/Sq Foot
Pound-Mass/Centimeter-Minute	× 75700.	= Centipoise
	× 757.	= Dyne-Second/Sq Centimeter
	× 7570000.	= Dyne-Second/Sq Meter
	× 4870.	= Dyne-Second/Sq Inch
	× 702000.	= Dyne-Second/Sq Foot
	× 757.	= Gram-Mass/Centimeter-Second
	× 45400.	= Gram-Mass/Centimeter-Minute
	× 2720000.	= Gram-Mass/Centimeter-Hour
	× .757	= Kilogram-Mass/Centimeter-Second
	× 75.7	= Kilogram-Mass/Meter-Second
	× 4540.	= Kilogram-Mass/Meter-Minute
	× 272000.	= Kilogram-Mass/Meter-Hour
	× 7.7	= Kilogram-Force-Second/Sq Meter
	× 757.	= Poise
	× 17.	= Pound-Force-Second/Sq Meter
	× .011	= Pound-Force-Second/Sq Inch
	× 1.58	= Pound-Force-Second/Sq Foot
	× .3/o183	= Pound-Force-Minute/Sq Inch
	× .0263	= Pound-Force-Minute/Sq Foot
Pound-Mass/Centimeter-Minute	× .0166	= Pound-Mass/Centimeter-Second
	× 4.23	= Pound-Mass/Inch-Second
	× 50.8	= Pound-Mass/Foot-Second

Pound-Mass/Centimeter-Minute	× 254.	= Pound-Mass/Inch-Minute
	× 3050.	= Pound-Mass/Foot-Minute
	× 5.92	= Pound-Mass/Centimeter-Hour
	× 15200.	= Pound-Mass/Inch-Hour
	× 183000.	= Pound-Mass/Foot-Hour
	× .0166	= Poundal-Second/Sq Centimeter
	× 4.23	= Poundal-Second/Sq Inch
	× 50.8	= Poundal-Second/Sq Foot
	× 1.0	= Poundal-Minute/Sq Centimeter
	× 254.	= Poundal-Minute/Sq Inch
	× 3050.	= Poundal-Minute/Sq Foot
	× 5.92	= Poundal-Hour/Sq Centimeter
	× 15200.	= Poundal-Hour/Sq Inch
	× 183000.	= Poundal-Hour/Sq Foot
Pound-Mass/Centimeter-Second	× 4540000.	= Centipoise
	× 45400.	= Dyne-Second/Sq Centimeter
	× 454(6/o).	= Dyne-Second/Sq Meter
	× 292000.	= Dyne-Second/Sq Inch
	× 421(5/o).	= Dyne-Second/Sq Foot
	× 45400.	= Gram-Mass/Centimeter-Second
	× 2720000.	= Gram-Mass/Centimeter-Minute
	× 163(6/o).	= Gram-Mass/Centimeter-Hour
	× 45.4	= Kilogram-Mass/Centimeter-Second
	× 4540.	= Kilogram-Mass/Meter-Second
	× 272000.	= Kilogram-Mass/Meter-Minute
	× 163(5/o).	= Kilogram-Mass/Meter-Hour
	× 462.	= Kilogram-Force-Second/Sq Meter
	× 45400.	= Poise
	× 1020.	= Pound-Force-Second/Sq Meter
	× .658	= Pound-Force-Second/Sq Inch
	× 94.8	= Pound-Force-Second/Sq Foot
	× .0109	= Pound-Force-Minute/Sq Inch
	× 1.58	= Pound-Force-Minute/Sq Foot
Pound-Mass/Centimeter-Second	× 254.	= Pound-Mass/Inch-Second
	× 3050.	= Pound-Mass/Foot-Second
	× 60.1	= Pound-Mass/Centimeter-Minute
	× 15200.	= Pound-Mass/Inch-Minute
	× 182000.	= Pound-Mass/Foot-Minute
	× 356.	= Pound-Mass/Centimeter-Hour
	× 914000.	= Pound-Mass/Inch-Hour
	× 109(5/o).	= Pound-Mass/Foot-Hour
	× 1.0	= Poundal-Second/Sq Centimeter
	× 254.	= Poundal-Second/Sq Inch
	× 3080.	= Poundal-Second/Sq Foot
	× 60.1	= Poundal-Minute/Sq Centimeter
	× 15200.	= Poundal-Minute/Sq Inch
	× 182000.	= Poundal-Minute/Sq Foot
	× 356.	= Poundal-Hour/Sq Centimeter
	× 914000.	= Poundal-Hour/Sq Inch
	× 109(5/o).	= Poundal-Hour/Sq Foot
Pound-Mass/Cubic Foot	× .031081	= Slug/Cubic Foot
Pound-Mass Density × Kinomatic Vis Sqft/Sec		= Abs Vis Pound-Force-Sec/Sqft
Pound-Mass/Foot-Hour	× .414	= Centipoise
	× .00414	= Dyne-Second/Sq Centimeter
	× 41.4	= Dyne-Second/Sq Meter
	× .0267	= Dyne-Second/Sq Inch
	× 3.84	= Dyne-Second/Sq Foot
	× .00414	= Gram-Mass/Centimeter-Second
	× .248	= Gram-Mass/Centimeter-Minute
	× 14.9	= Gram-Mass/Centimeter-Hour
	× .5/o414	= Kilogram-Mass/Centimeter-Second
	× .000414	= Kilogram-Mass/Meter-Second
	× .0248	= Kilogram-Mass/Meter-Minute
	× 1.49	= Kilogram-Mass/Meter-Hour
	× .4/o421	= Kilogram-Force-Second/Sq Meter
	× .00414	= Poise

Pound-Mass/Foot-Hour	× .4/o93	= Pound-Force-Second/Sq Meter
	× .7/o6	= Pound-Force-Second/Sq Inch
	× .5/o864	= Pound-Force-Second/Sq Foot
	× .8/o1	= Pound-Force-Meter/Sq Inch
	× .6/o144	= Pound-Force-Meter/Sq Foot
	× .7/o911	= Pound-Mass/Centimeter-Second
	× .4/o231	= Pound-Mass/Inch-Second
	× .3/o278	= Pound-Mass/Foot-Second
	× .5/o545	= Pound-Mass/Centimeter-Minute
	× .00139	= Pound-Mass/Inch-Minute
	× .0166	= Pound-Mass/Foot-Minute
	× .4/o324	= Pound-Mass/Centimeter-Hour
	× .0832	= Pound-Mass/Inch-Hour
	× .7/o911	= Poundal-Second/Sq Centimeter
	× .4/o231	= Poundal-Second/Sq Inch
	× .3/o278	= Poundal-Second/Sq Foot
	× .5/o545	= Poundal-Minute/Sq Centimeter
	× .00139	= Poundal-Minute/Sq Inch
	× .0166	= Poundal-Minute/Sq Foot
	× .4/o324	= Poundal-Hour/Sq Centimeter
	× .0832	= Poundal-Hour/Sq Inch
	× 1.0	= Poundal-Hour/Sq Foot
Pound-Mass/Foot-Minute	× 24.7	= Centipoise
	× .247	= Dyne-Second/Sq Centimeter
	× 2470.	= Dyne-Second/Sq Meter
	× 1.6	= Dyne-Second/Sq Inch
	× 230.	= Dyne-Second/Sq Foot
	× .247	= Gram-Mass/Centimeter-Second
	× 14.9	= Gram-Mass/Centimeter-Minute
	× 890.	= Gram-Mass/Centimeter-Hour
	× .000247	= Kilogram-Mass/Centimeter-Second
	× .0247	= Kilogram-Mass/Meter-Second
	× 1.49	= Kilogram-Mass/Meter-Minute
	× 89.	= Kilogram-Mass/Meter-Hour
	× .00252	= Kilogram-Force-Second/Sq Meter
	× .247	= Poise
	× .00556	= Pound-Force-Second/Sq Meter
	× .5/o359	= Pound-Force-Second/Sq Inch
	× .000517	= Pound-Force-Second/Sq Foot
	× .7/o6	= Pound-Force-Minute/Sq Inch
	× .5/o862	= Pound-Force-Minute/Sq Foot
Pound-Mass/Foot-Minute	× .5/o556	= Pound-Mass/Centimeter-Second
	× .00138	= Pound-Mass/Inch-Second
	× .0166	= Pound-Mass/Foot-Second
	× .000327	= Pound-Mass/Centimeter-Minute
	× .0834	= Pound-Mass/Inch-Minute
	× .0019	= Pound-Mass/Centimeter-Hour
	× 5.	= Pound-Mass/Inch-Hour
	× 60.	= Pound-Mass/Foot-Hour
	× .5/o556	= Poundal-Second/Sq Centimeter
	× .00138	= Poundal-Second/Sq Inch
	× .0166	= Poundal-Second/Sq Foot
	× .000327	= Poundal-Minute/Sq Centimeter
	× .0834	= Poundal-Minute/Sq Inch
	× 1.0	= Poundal-Minute/Sq Foot
	× .0019	= Poundal-Hour/Sq Centimeter
	× 5.	= Poundal-Hour/Sq Inch
	× 60.	= Poundal-Hour/Sq Foot
Pound-Mass/Foot-Second	× 1488.	= Centipoise
	× 14.8	= Dyne-Second/Sq Centimeter
	× 148000.	= Dyne-Second/Sq Meter
	× 96.	= Dyne-Second/Sq Inch
	× 13800.	= Dyne-Second/Sq Foot
	× 14.8	= Gram-Mass/Centimeter-Second
	× 894.	= Gram-Mass/Centimeter-Minute
	× 53500.	= Gram-Mass/Centimeter-Hour

P — CONVERSION FACTORS

Pound-Mass/Foot-Second	× .0148	= Kilogram-Mass/Centimeter-Second
	× 1.48	= Kilogram-Mass/Meter-Second
	× 89.4	= Kilogram-Mass/Meter-Minute
	× 5350.	= Kilogram-Mass/Meter-Hour
	× .151	= Kilogram-Force-Second/Sq Meter
	× 14.8	= Poise
	× .334	= Pound-Force-Second/Sq Meter
	× .000216	= Pound-Force-Second/Sq Inch
	× .0311	= Pound-Force-Second/Sq Foot
	× .5/o36	= Pound-Force-Minute/Sq Inch
	× .000517	= Pound-Force-Minute/Sq Foot
Pound-Mass/Foot-Second	× .3/o328	= Pound-Mass/Centimeter-Second
	× .0832	= Pound-Mass/Inch-Second
	× .0196	= Pound-Mass/Centimeter-Minute
	× 5.	= Pound-Mass/Inch-Minute
	× 60.	= Pound-Mass/Foot-Minute
	× .116	= Pound-Mass/Centimeter-Hour
	× 300.	= Pound-Mass/Inch-Hour
	× 3600.	= Pound-Mass/Foot-Hour
	× .3/o328	= Poundal-Second/Sq Centimeter
	× .0832	= Poundal-Second/Sq Inch
	× 1.0	= Poundal-Second/Sq Foot
	× .0196	= Poundal-Minute/Sq Centimeter
	× 5.	= Poundal-Minute/Sq Inch
	× 60.	= Poundal-Minute/Sq Foot
	× .116	= Poundal-Hour/Sq Centimeter
	× 300.	= Poundal-Hour/Sq Inch
	× 3600.	= Poundal-Hour/Sq Foot
Pound-Mass-Foot/Second Squared	× 1.0	= Pound-Force
Pound-Mass/Inch-Hour	× 4.96	= Centipoise
	× .0496	= Dyne-Second/Sq Centimeter
	× 496.	= Dyne-Second/Sq Meter
	× .32	= Dyne-Second/Sq Inch
	× 46.1	= Dyne-Second/Sq Foot
	× .0496	= Gram-Mass/Centimeter-Second
	× 2.98	= Gram-Mass/Centimeter-Minute
	× 178.	= Gram-Mass/Centimeter-Hour
	× .4/o496	= Kilogram-Mass/Centimeter-Second
	× .00496	= Kilogram-Mass/Meter-Second
	× .298	= Kilogram-Mass/Meter-Minute
	× 17.8	= Kilogram-Mass/Meter-Hour
	× .3/o505	= Kilogram-Force-Second/Sq Meter
	× .0496	= Poise
	× .2/o111	= Pound-Force-Second/Sq Meter
	× .6/o72	= Pound-Force-Second/Sq Inch
	× .000103	= Pound-Force-Second/Sq Foot
	× .7/o12	= Pound-Force-Meter/Sq Inch
	× .5/o172	= Pound-Force-Meter/Sq Foot
Pound-Mass/Inch-Hour	× .5/o109	= Pound-Mass/Centimeter-Second
	× .3/o278	= Pound-Mass/Inch-Second
	× .00333	= Pound-Mass/Foot-Second
	× .4/o656	= Pound-Mass/Centimeter-Minute
	× .0167	= Pound-Mass/Inch-Minute
	× .2	= Pound-Mass/Foot-Minute
	× .000389	= Pound-Mass/Centimeter-Hour
	× 12.	= Pound-Mass/Foot-Hour
	× .5/o109	= Poundal-Second/Sq Centimeter
	× .3/o278	= Poundal-Second/Sq Inch
	× .00333	= Poundal-Second/Sq Foot
	× .4/o656	= Poundal-Minute/Sq Centimeter
	× .0167	= Poundal-Minute/Sq Inch
	× .2	= Poundal-Minute/Sq Foot
	× .000389	= Poundal-Hour/Sq Centimeter
	× 1.0	= Poundal-Hour/Sq Inch
	× 12.	= Poundal-Hour/Sq Foot
Pound-Mass/Inch-Minute	× 298.	= Centipoise

Pound-Mass/Inch-Minute	× 2.98	= Dyne-Second/Sq Centimeter
	× 29800.	= Dyne-Second/Sq Meter
	× 19.2	= Dyne-Second/Sq Inch
	× 2760.	= Dyne-Second/Sq Foot
	× 2.98	= Gram-Mass/Centimeter-Second
	× 1.78	= Gram-Mass/Centimeter-Minute
	× 10700.	= Gram-Mass/Centimeter-Hour
	× .00298	= Kilogram-Mass/Centimeter-Second
	×.298	= Kilogram-Mass/Meter-Second
	× 17.8	= Kilogram-Mass/Meter-Minute
	× 1070.	= Kilogram-Mass/Meter-Hour
	× .0303	= Kilogram-Force-Second/Sq Meter
	× 2.98	= Poise
	× .067	= Pound-Force-Second/Sq Meter
	× .4/o432	= Pound-Force-Second/Sq Inch
	× .00622	= Pound-Force-Second/Sq Foot
	× .6/o72	= Pound-Force-Minute/Sq Inch
	× .3/o103	= Pound-Force-Minute/Sq Foot
Pound-Mass/Inch-Minute	× .4/o656	= Pound-Mass/Centimeter-Second
	× .0166	= Pound-Mass/Inch-Second
	× .2	= Pound-Mass/Foot-Second
	× .00393	= Pound-Mass/Centimeter-Minute
	× 12.	= Pound-Mass/Foot-Minute
	× .0233	= Pound-Mass/Centimeter-Hour
	× 60.	= Pound-Mass/Inch-Hour
	× 720.	= Pound-Mass/Foot-Hour
	× .4/o656	= Poundal-Second/Sq Centimeter
	× .0166	= Poundal-Second/Sq Inch
	× .2	= Poundal-Second/Sq Foot
	× .00393	= Poundal-Minute/Sq Centimeter
	× 1.0	= Poundal-Minute/Sq Inch
	× 12.	= Poundal-Minute/Sq Foot
	× .0233	= Poundal-Hour/Sq Centimeter
	× 60.	= Poundal-Hour/Sq Inch
	× 720.	= Poundal-Hour/Sq Foot
Pound-Mass/Inch-Second	× 17800.	= Centipoise
	× 178.	= Dyne-Second/Sq Centimeter
	× 1780000.	= Dyne-Second/Sq Meter
	× 1150.	= Dyne-Second/Sq Inch
	× 166000.	= Dyne-Second/Sq Foot
	× 178.	= Gram-Mass/Centimeter-Second
	× 10700.	= Gram-Mass/Centimeter-Minute
	× 643000.	= Gram-Mass/Centimeter-Hour
	× .178	= Kilogram-Mass/Centimeter-Second
	× 17.8	= Kilogram-Mass/Meter-Second
	× 1070.	= Kilogram-Mass/Meter-Minute
	× 64300.	= Kilogram-Mass/Meter-Hour
	× 1.82	= Kilogram-Force-Second/Sq Meter
	× 178.	= Poise
	× 4.01	= Pound-Force-Second/Sq Meter
	× .00259	= Pound-Force-Second/Sq Inch
	× .373	= Pound-Force-Second/Sq Foot
	× .4/o43	= Pound-Force-Minute/Sq Inch
	× .0062	= Pound-Force-Minute/Sq Foot
	× .00394	= Pound-Mass/Centimeter-Second
Pound-Mass/Inch-Second	× 12.	= Pound-Mass/Foot-Second
	× .236	= Pound-Mass/Centimeter-Minute
	× 60.	= Pound-Mass/Inch-Minute
	× 720.	= Pound-Mass/Foot-Minute
	× 1.4	= Pound-Mass/Centimeter-Hour
	× 3600.	= Pound-Mass/Inch-Hour
	× 4325.	= Pound-Mass/Foot-Hour
	× .00394	= Poundal-Second/Sq Centimeter
	× 1.0	= Poundal-Second/Sq Inch
	× 12.	= Poundal-Second/Sq Foot
	× .236	= Poundal-Minute/Sq Centimeter

CONVERSION FACTORS

Pound-Mass/Inch-Second	× 60.	= Poundal-Minute/Sq Inch
	× 720.	= Poundal-Minute/Sq Foot
	× 1.4	= Poundal-Hour/Sq Centimeter
	× 3600.	= Poundal-Hour/Sq Inch
	× 4325.	= Poundal-Hour/Sq Foot
Pound-Mass/Second-Foot	× 1488.	= Centipoise
Pound/Mile	× .11048	= Grain/Inch
	× .0028185	= Gram/Centimeter
	× .28185	= Kilogram/Kilometer
	× .00028185	= Kilogram/Meter
	× .00018939	= Pound/Foot
	× .00056818	= Pound/Yard
Pound/Million Gallon	× .00700	= Grain/Gallon
	× .11982	= Part/Million
Pound-Mole	× 1.986	= Btu IT/°R
	× .7302	= Cuft × Atmos/°R
	× 1.314	= Cuft × Atmos/°K
	× 21.85	= Cuft × In Hg/°R
	× 555.0	= Cuft × mm Hg/°R
	× 998.9	= Cuft × mm Hg/°K
	× 1.986	= Chu/°K
	× 10.73	= Cuft × psi Abs/°R
	× 1545.0	= Cuft × psf Abs/°R
	× .0007805	= HP-Hr/°R
	× .0005819	= Kwhr/°R
Pound-Mole/Cubic Foot	× 1.0	= Concentration Unit
Pound-Mole (Gas 60F-30"HG)	× 379.	= Standard Cubic Foot
Pound-Mole/Hour-Square Foot	× 1.0	= Molar Mass Velocity Unit
	× 1.0	= Molar Rate Liquid Flow Unit
Pound/Pound	× 1.0	= Humidity Unit
Pound/Pound-Mole	× 1.0	= Molecular Weight Unit
Pound/Square Foot (psf)	× 13.14	= Air Height Feet 62F
	× .000472543	= Atmosphere cm-32F
	× .0359131	= Centimeter Mercury Height 32F
	× 478.803	= Dyne/Square Centimeter
	× 29.1	= Feet/Second
	× .488241	= Gram/Square Centimeter
	× .014139	= Inch Mercury Height 32F
	× .000488241	= Kilogram/Square Centimeter
	× .48824	= Kilogram/Square Decimeter
	× 4.88241	= Kilogram/Square Meter
	× .04788	= Kilopascal
	× 47.88	= Newton/Square Meter
	× .1111	= Ounce/Square Inch
	× .107638	= Pound/Square Centimeter
	× .00694445	= Pound/Square Inch
	× 10.76387	= Pound/Square Meter
	× .010763	= Pound/Square Millimeter
	× 9.	= Pound/Square Yard
	× .0005	= Ton Short/Square Foot
	× .01602	= Water Feet Height 39.1F
	× .19245	= Water Inch Height 39.1F
Pound/Square Foot/Year	× 133.8	= Mg/Sq Decimeter/Day
Pound/Square Inch (psi)	× 1893.	= Air Height Feet 62F
	× .0680462	= Atmosphere 76 cm-32F
	× .0006895	= Barye
	× 5.17149	= Centimeter Mercury 32F
	× 68947.6	= Dyne/Square Centimeter
	× 349.	= Feet/Second
	× 2.3114	= Feet Water 70F
	× 2.30947	= Feet Water 62F
	× 70.307	= Gram/Square Centimeter
	× 33.672	= Inch Red Oil 70F
	× 27.70	= Inch Water 15C
	× 27.7369	= Inch Water 70F
	× .0703067	= Kilogram/Square Centimeter

Pound/Square Inch (psi)	× 703.06	= Kilogram/Square Meter
	× .00070306	= Kilogram/Square Millimeter
	× 6.894757	= Kilopascal
	× 2.0438	= Mercury Inch 70F
	× 2.036	= Mercury Inch Height 0C
	× 2.0416	= Mercury Inch Height 62F
	× 51.7147	= Mercury Millimeter Height
	× .06895	= Megabar
	× .06895	= Megadyne/Square Centimeter
	× .7037	= Meter Water 15C
	× .689476	= Newton/Square Meter
	× 2304.	= Ounce/Square Foot
	× 144.	= Pound/Square Foot
	× .07200	= Ton Short/Square Foot
Pound (1000)/Square Inch	× .70307	= Kilogram/Square Millimeter
Pound/Square Inch Absolute (psia)	- 14.7	= psi Gage Reading
Pound/Square Inch Gage Reading	+ 14.7	= Pound/Square Inch Absolute
Pound (Sweden)	× .9377	= Pound Avoir
Pound-Troy	× 22.816	= Cubic Inch Water 62F
	× 210.6514	= Dram Avoir
	× 96.	= Dram Troy
	× 5760.	= Grain Apoth-Troy-Avoir
	× 373.242	= Gram
	× .37324177	= Kilogram
	× 373241.77	= Milligram
	× 12.	= Ounce-Apoth-Troy
	× 13.1657	= Ounce Avoir
	× 240.	= Pennyweight Troy
	× .8228571	= Pound Avoir
	× 288.	= Scruple
	× .3/o3673	= Ton Long
	× .3/o3732	= Ton Metric
	× .3/o4114	= Ton Short
Pound/Yard	× 194.444	= Grain/Inch
	× 4.96054	= Gram/Centimeter
	× 12.6	= Gram/Inch
	× 496.054	= Kilogram/Kilometer
	× .496054	= Kilogram/Meter
	× .33333	= Pound/Foot
	× .02778	= Pound/Inch
	× .78571	= Ton Long/Mile
	× .45605	= Ton Metric/Kilometer
	× .8800	= Ton Short/Mile
Pound/1000 Yard	× .4960	= Kilogram/Kilometer
	× 1.0936	= Pound/Kilometer
Power	× Time	= Work
	× Time	= Force
Power Factor: Single Ph × Amp × Volt	× .001	= Kilowatt AC
2 Ph-4 Wire × Amp × Volt	× .002	= Kilowatt AC
3 Ph × Amp × Volt	× .00173	= Kilowatt AC
Single Ph × Amp × Volt × % Eff	× .00134	= HP Elec AC
2 Ph-4 Wire × Amp × Volt × % Eff	× .00268	= HP Elec AC
3 Ph × Amp × Volt × % Eff	× .002319	= HP Elec AC
Power Factor (PF)	× Impedance	= Ohm
× Ampere	× Volt	= Watt (True Power)
Power Line Formulae: Area in Circular Mils	= A	= DWT/PE
Distance in Feet	= D	= APE/WT
Volts Squared	= E	= DWT/PA
Percent Loss	= P	= DWT/AE
Watts	= W	= APE/DT
Constant = $1080/PF^2$	= T	= APE/DW
Power Saw: Cutting 2×4, 2×6 Studs:	= .003	= Saw-Hour/Board-Foot
Power Shovel (3/4 Yd) Work: Cubic Yard	× .0075	= Hour Work Excavating
(1-1/4 Yd) Work: Cubic Yard	× .0045	= Hour Work Excavating
(1-1/2 Yd) Work: Cubic Yard	× .004	= Hour Work Excavating
(1-3/4 Yd) Work: Cubic Yard	× .0035	= Hour Work Excavating

P — CONVERSION FACTORS

Power Shovel (2 Yd) Work: Cubic Yard		× .003	= Hour Work Excavating
Lost Time Moving and Waiting on Trucks			= Digging Time
Praseodymium: (Pr): #59:140.92 AW:			
Press Brake: Tons to Form × Die Width Inch			= Part Length Inch × Thickness Inch Squared
Pressure		× Area	= Total Force
Prestone: Cubic Foot		× 68.	= Pound
Gallon		× 9.	= Pound
Primary Ampere × Primary Turns			= Secondary Ampere × Secondary Turns
Primary Voltage × Primary Ampere			= Secondary Voltage × Secondary Ampere
Primary Watt			= Secondary Watt
Principal × Rate		× Time	= Interest
× Rate × Time		+ Principal	= Amount
Prism: Base Area		× Height	= Cubic Volume
Base Perimeter		× Height	= Lateral Area
Lateral Edge or Element Length		× Section Area	= Volume
Lateral Edge or Element Length		× Section Perimeter	= Lateral Area
Number Sides × Side		× Height	= Lateral Area
Number Sides × Side × Radius × Height		× .5	= Volume
Probability an Event May Happen		× Total Trials	= Number of Good Trials
Productivity Factor = Barrel/Day divided by Static minus Flowing Pressure			
Promethium: (Pr): #61:145.00 AW:			
Propane: 30Hg60F Gas:	Boiling Point	= 415.89	= Degree R
	Critical Pressure	= 617.	= psi
	Critical Temperature	= 665.89	= Degree R
	Cuft	× 2526.	= Btu
		× 23.87	= Cuft Air to Burn
		× .118	= Pound
	Cuft Mixed Air-Gas	× 100.47	= Btu Gross Combustion Heat
	Density: Cuft	× .1162	= Pound
	Flame Propogation 1" Tube	2.69	= fps Max Rate
	Flame Temperature	= 3710.	= Degree F Max
	Inflammability	= 9.5	= % Gas Upper Limit
		= 2.4	= % Gas Lower Limit
	Mean Coeff Expansion	= .00143	= (0-50F)
		= .00180	= (50-100F)
	Melting Point	= 153.79	= Degree R
	Molecular Weight	= 44.06	
	% @ Flame Propagation Rate		= 4.71
	Pound	× 21692.	= Btu
		× 183.	= Btu Heat Vaporization @ BP
		× 15.712	= Pound Air for Combustion
	Specific Gravity	= 1.522	(Air = 1)
	Specific Heat: Cuft	× .0566	= Btu
	Pound	× .390	= Btu
Propane: 30Hg60F Liquid:	Degree API	= 147.	
	Gallon	× 88806.	= Btu
		× 91300.	= Btu Heat Vaporization @ BP
		× 36.52	= Cuft
		× 4.23	= Pound
	Pound	× 20973.	= Btu
		× 8.61	= Cuft
	Specific Gravity	= .508	
	Vapor Pressure	= 92.4	= psi Gage 60F
		= 128.9	= psi Gage 80F
		= 175.	= psi Gage 100F
		= 225.	= psi Gage 120F
Propeller Horsepower		× 550.	= Pound Thrust × Feet/Second
Propylene Gas (60F-30"Hg)		= 1.452	= Specific Gravity (Air = 1)
	Cubic Foot	× 2290.	= Btu Gross Combustion Heat
		× 21.8	= Cuft Air for Combustion
		× .112	= Pound
	Cuft Mixed Air-Gas	× 103.55	= Btu Gross Combustion Heat
	Flame Temperature	= 3800.	= Degree F Maximum
	Pound	× 21032.	= Btu Gross Combustion Heat
		× 8.99	= Cubic Feet
		× 14.820	= Pound Air for Combustion

Protactinium: (Pa): #91:231.00 AW:		
Pulley: Belted: Driven Pulley Diameter	× Speed Ratio	= Driven Pulley Diameter
Driver Pully Diameter/Driven Pulley Diameter		= Speed Ratio
rpm of Driver Pulley	× Speed Ratio	= rpm of Driven Pulley
Diam. Inch (Motor) × Motor rpm = Driven Pulley Diam Inch × Driven Machine rpm		
Diameter Inch × rpm	× .261789	= Feet/Minute (Belt Speed)
Rope: Number Stands	× Effort	= Resistance
Pump	= 50 to 85%	= Efficiency
Pump: Bbl/Day × psi Pump Disch Press	× .4/o17	= HP Input to Sucker Rod
Bbl Water/Day × Ft Pump Depth	× .007378	= HP Input to Sucker Rod
Feet Head × gpm × spg	× .0002525	= HP
Plunger: Inch Stroke × spm	× K	= Bbl(42)/Day
Diameter Inch	× .554 - .437	= K (Use Above)
psi Discharge × gpm × spg	× .0005831	= HP
psi Head Equiv to Atmos Press	- Vapor Press to Water Temp	= Max Pump Lift
Steam: spm × Sqin Water Cylinder × Inch Stroke	× .26	= Gal/Hour Discharge
Pump (100% Eff) Head in Feet × gpm	× .00025	= Horsepower
Pump: Mud: psi Standpipe Circ Press × gpm	× .00058343	= Horsepower Output
Pumping Oil: Stripper: Year	× 60.	= Barrel/Acre (Efficiency)
Puncheon	× 84.	= Gallon Liquid US
	× 70.	= Gallon Liquid British
	× .66	= Pipe
	× 2.	= Tierce
	× .333	= Tun
	× 84.	= Wine Gallon
Punch Press: Part Length Inch × Thickness Inch × Ton Shear Strength		= Tons to Blank Part
Pyramid: Base Area × Vertical Height	× .3333	= Volume
Base Perimeter × Slant Height	× .5	= Lateral Area
Inscribed Radius × Height × Side × Number Sides	× .1666	= Volume

Q

Quadrant:	× .25	= Circumference
	× 90.	= Degree
	× 5400.	= Minute
	× 1.570797	= Radian
	× .25	= Revolution
	× 324000.	= Second
Quadrant: Chord Squared	× .3927	= Area
Radius Squared	× .7854	= Area
Quart Dry British	× 1.0320	= Quart Dry US
Quart Dry US	× .03125	= Bushel US Std Struck
	× 1101.2	= Cubic Centimeter
	× 1.101198	= Cubic Decimeter
	× .03889	= Cubic Foot
	× 67.200625	= Cubic Inch
	× .001440	= Cubic Yard
	× .110120	= Decaliter
	× .25	= Gallon Dry US
	× .29091	= Gallon Liquid US
	× 1.1012	= Liter
	× 37.24	= Ounce Fluid US Apoth
	× .125	= Peck
	× 2.	= Pint
	× .969	= Quart Dry British
	× 1.16365	= Quart Liquid US
Quart Liquid British	× .25	= Gallon Liquid British
	× 1.13650	= Liter
	× 1.2003	= Quart Liquid US
Quart Liquid US	× .007937	= Barrel (31.5)
	× .02686	= Bushel US Std Struck
	× 946.331	= Cubic Centimeter
	× .946331	= Cubic Decimeter
	× .03342	= Cubic Foot
	× 57.75	= Cubic Inch
	× .001238	= Cubic Yard
	× 4.0	= Cup
	× 256.	= Dram Fluid

Q — CONVERSION FACTORS

Quart Liquid US	× .21484	= Gallon Dry US
	× .25	= Gallon Liquid US
	× 8.	= Gill
	× .946331	= Liter
	× 946.33	= Milliliter
	× 15360.	= Minim
	× 32.0	= Ounce Fluid US Apoth
	× 2.	= Pint Liquid US
	× .85937	= Quart Dry US
	× .0059523	= Barrel (42)
	× .000946358	= Cubic Meter
	× .01865	= Cwt
	× .0946332	= Decaliter
	× .2081483	= Gallon Liquid British
	× 944.73096	= Gram Water 62F
	× .00946332	= Hectoliter
	× 2.0828	= Pound Water 62F
	× .0009313	= Ton Long Water 39.1F
	× .0009298	= Ton Long Water 62F
	× .00104138	= Ton Short Water 62F
Quarter	× 8.	= Bushel
	× 2.909	= Hectoliter
Quarter Avoirdupois	× 28.	= Pound Avoir
	× 2.	= Stone
	× .0125	= Ton Long
	× .014	= Ton Short
Quarter Cloth	× 9.	= Inch
	× 4.	= Nail
Quarter Long	× 12.70	= Kilogram
	× 28.	= Pound
	× .0125	= Ton Long
	× .014	= Ton Short
Quarter-Section	× .25	= Section
	× .25	= Square Mile
	× .007	= Township
Quarter Short	× 25.	= Pound
	× .0125	= Ton Short
	× .01116	= Ton Long
Quarter (25 Cent Piece)	= 6.25	= Gram
Quartz: Linear Expansion: Inch	× .3	= Micro-Inch/Degree F
Quintal	× 1(5/o).	= Gram
	× 1.96841	= Hundredweight Long
	× 2.20462	= Hundredweight Short
	× 100.	= Kilogram
	× 200.462	= Pound Avoirdupois
	× 267.92	= Pound Troy
	× 1543235.639	= Grain
	× 1(5/o).	= Gram Water 4C
	× 1000.	= Hectogram
	× 100.	= Liter Water
	× 3215.0742	= Ounce Apoth-Troy
	× 3527.3957	= Ounce Avoir
	× 178.57	= Pound Austrian
	× 244.19	= Pound Russian
	× 235.25	= Pound Sweden
	× .09842	= Ton Long US
	× .1	= Ton Metric
	× .11023	= Ton Short US
	× 200.	= Zollpfund
Quintillion	= 1(18/o).	= Units
Quire	× .048	= Long Ream
	× .05	= Ream
	× 24.	= Sheet
	× 25.	= Sheet (Sometimes Used)

R

Radian	× .159155	= Circle

Radian	× .159155	= Circumference
	× 57.2957795131	= Decimal Degree
	× 57°17'44.8"	= Degree-Minute-Second
	× 63.662	= Grade
	× 206265.	= Inch
	× 3437.75	= Minute
	× .159155	= Revolution
	× .636619	= Quadrant
	× 206265.	= Second
Radian/Second	× 57.29	= Degree/Second
	× 9.549	= Revolution/Minute
	× .159155	= Revolution/Second
Radian/Second/Second	× 573.	= Revolution/Minute/Minute
	× 9.549	= Revolution/Minute/Second
	× .1592	= Revolution/Second/Second
Radiation Factor 0-200C	= 1.0	= Emissivity 0-200C (See)
Radiation: Hot Air: Total Pipe Area	× .5416	= Steam Radiation Surface
In Watts/Sqin Cast Iron Surface	= .8/o92 (Hot Body °K⁴ - Ambientor Wall °K⁴)	
In Watts/Sqin Steel Surface	= .7/o2576 (Hot Body °K⁴ - Ambientor Wall °K⁴)	
In Watts/Sqin Surface = .10/o368 (Emissivity) (Hot Body °K⁴ - Ambientor Wall °K⁴)		
Radio-Phonograph:	= 175	= Watt Avg Use
Radium: (Ra): #88:226.05 AW:		
Radon: (Rn): #86:222. AW:		
Rainfall (20-30" Annual): (Annual Inch	× .25) - 3.5	= Inch Runoff (20-100 SqMi)
(30-50" Annual): (Annual Inch	× .6) - 12.5	= Inch Runoff (20-100 SqMi)
Range: 1 Casing: Joint	× 23.0	= Feet Average Length
2 Casing: Joint	× 30.0	= Feet Average Length
3 Casing: Joint	× 38.0	= Feet Average Length
1 Tubing: Joint	× 21.5	= Feet Average Length
2 Tubing: Joint	× 31.5	= Feet Average Length
Rankine Degree	- 459.69	= Fahrenheit Degree
	× 1.8	= Kelvin Degree
Rate	× Time	= Distance
Rate × Principal	× Time	= Interest
× Principal × Time	+ Principal	= Amount
Ream:	× 20.	= Quire
	× 480.	= Sheet
Ream: Long	× 500.	= Sheet
Perfect	× 516.	= Sheet
Reaumur Degree	× 1.25	= Centigrade Degree
× 1.25	+ 273.16	= Kelvin Degree
Rectangle: Height	× Base	= Area
Rectangular Tank: L × W × D in Feet	× .1781	= Barrel (42)
	× 1.0	= Cubic Feet
	× 7.4805	= Gallon Liquid US
L × W × D in Inch	× .0001031	= Barrel (42)
	× .000579	= Cubic Feet
	× .00433	= Gallon Liquid US
Red	= 7000.	= Angstrom
	= 27.5	= Micro-Inch
Red Oil (Min. Seal Spg. .827-70F): Inch	× .0609	= Inch Height Mercury 70F
	× .827	= Inch Height Water 70F
	× .4788	= Ounce/Square Inch
	× .0298	= Pound/Square Inch
Refrigeration: Btu Heat Load × Hrs Operated	× .5/o34722	= Total Short Ton Load
Cold Storage: Men Working	= 600 to 1000	= Btu/Hr/Person
Horsepower	× 42.4	= Btu/Minute
Up to .5 HP Motor in Stg Space	= 4250.	= Btu/Hr/HP
.5 to 3 HP Motor in Stg Space	= 3700.	= Btu/Hr/HP
Over 3 HP Motor in Stg Space	= 2950.	= Btu/Hr/HP
Performance Coeff	× HP/Ton	= 4.71
Refrigeration Ton	× 1.0	= Refrigeration Short Ton
= 144 Btu/Pound	× 2000.	= 288000 Btu/Short Ton
Standard	× 288000.	= Btu
	× 200.	= Btu/Minute
Commercial	× 288000.	= Btu/Day

CONVERSION FACTORS

Refrigeration Ton Commercial	× 12000.	= Btu/Hour
	× 144.	= Btu Loss/Pound Ice/Hour
	× 83.33	= Pound Ice Lost/Hour
Refrigeration Ton/Day	× 200.	= Btu/Minute (Effect)
Refrigerator:	= 150	= Watt Avg Use
Reinforcing Rod: Sqin Cross Section	× 3.4	= Pound/Linear Feet
Rep	× 83.8	= Erg Absorbed/Gram of Air
	× 83.8	= Erg/Gram
	× 1.0	= Roentgen Physical Equivalent
Repressuring: Stripper: Years	× 200.	= Bbls/Acre (Efficiency)
Resistance: Aluminum: (K Value)	= 17.7	= Ohm/Mil-Foot
Copper: (K Value)	= 10.4	= Ohm/Mil-Foot
Manganin: (K Value)	= 280.	= Ohm/Mil-Foot
Nichrome: (K Value)	= 660.	= Ohm/Mil-Foot
Silver: (K Value)	= 9.74	= Ohm/Mil-Foot
Specific, or Resistivity:	= K	= Ohm/Mil-Foot
Revolution	× 360.	= Degree
	× 21600.	= Minute
	× 4.	= Quadrant
	× 6.283185	= Radian
	× 1296000.	= Second
Revolution/Minute	× 6.	= Degree/Second
	× .1047	= Radian/Second
	× .01667	= Revolution/Second
Revolution/Minute/Minute	× .001745	= Radian/Sec/Sec
	× .01667	= Revolution/Min/Sec
	× .0002778	= Revolution/Sec/Sec
Revolution/Minute/Second	× .1047	= Radian/Sec/Sec
	× 60.	= Revolution/Min/Min
	× .01667	= Revolution/Sec/Sec
Revolution/Second	× 360.	= Degree/Second
	× 6.283	= Radian/Second
	× 60.	= Revolution/Minute
Revolution/Second/Second	× 6.283	= Radian/Sec/Sec
	× 3600.	= Revolution/Min/Min
	× 60.	= Revolution/Min/Sec
Reyn	× 69(5/o).	= Centipoise
	× 1.0	= Lb-Force-Second/Sq Inch
Reyn × Density in lb-sec Squared/Inch 4th Power		= Sqin/Second
Rhe	× Centipoise	= .01
	× Dyne-Sec/Sqcm	= 1.0
	× Gram-Mass/Cm-Sec	= 1.0
	× Poise	= 1.0

Rhenium: (Re): #75:186.31 AW:
Rhodium: (Rh): #45:102.91 AW:
Rhomboid: Quadrilateral with Opposite Sides and Angles Equal.

Rhombus: Large × Small Diagonal	× .5	= Area
Quadrilateral with Sides Equal and Parallel, No Right Angles.		
Ring: Circle: Large Diam Squared Minus Small Diam Squared		× .7854 = Area
Large Diam Squared Minus Small Radius Squared		× 3.1416 = Area
Ring: Solid: Large Diameter × Small Diam	× 3.1416	= Area
Large Radius × Small Radius	× 12.5664	= Area
Small Diam Squared × Large Diam	× 2.463	= Volume
Small Radius Squared × Large Rad	× 19.7392	= Volume
Thickness × Mean Radius	× 39.4784	= Convex Surface Area
Thickness Squared × Mean Radius	× 19.7392	= Volume
Roaster: Electric	= 1650	= Watt Avg Use
Rock: Field: Cubic Yard	× 2000.	= Pound
Trap: Crushed 3/4": Cubic Yard	× 2600.	= Pound
1-1/2": Cubic Yard	× 2550.	= Pound
3/4": Ton	× .77	= Cubic Yard
1-1/2": Ton	× .785	= Cubic Yard
Rod	× .165	= Chain Engineer
	× .25	= Chain Gunter
	× .5029	= Decameter
	× 16.5	= Feet US

Rod	× .025	= Furlong
	× 198.	= Inch
	× .005029	= Kilometer
	× 25.	= Link
	× 5.02921	= Meter
	× .002714	= Mile Nautical US
	× .003125	= Mile Statute US
	× 1.0	= Perch-Pole
	× 5.5	= Yard US
Roentgen (Ionizing Power)	× 83.8	= Erg Absorbed/Gram of Air
Road	× .25	= Acre
	× 2.5	= Square Chain Gunter
	× 10.117	= Square Dekameter
	× 10890.	= Square Feet
	× 1568160.	= Square Inch
	× 1012.	= Square Meter
	× .0003906	= Square Mile
	× 40.	= Square Perch or Rod
	× 1210.	= Square Yard
Roofing: Asbestos: Number of Plies	× .005	= Labor-Hr/Sqft (Summer)
	× .006	= Labor-Hr/Sqft (Winter)
	× .2	= Pound Asbestos Felt/Sqft
Square Foot	× .9	= Pound Asphalt
Asphalt: Number of Plies	× .3	= Pound Asphalt/Sqft
	× .25	= Pound Felt/Square Foot
Concrete Deck: Sqft	× .1	= Pound Asphalt Primer
Promenade Tile: Square Feet	× .08	= Labor-Hour
	× 3.	= Pound Composition
	× .1	= Roofer-Hour
Slate: Square Feet	× .02	= Helper-Hour
	× .025 to .035	= Slater-Hr (Curved Area)
	× .054 to .064	= Slater-Hr (Hip-Valley)
	× .02 to .03	= Slater-Hr (Straight Roof)
Tar-Gravel or Asphalt: Plies	× .005	= Labor-Hr/Sqft (Summer)
	× .006	= Labor-Hr/Sqft (Winter)
Tar-Gravel: Number of Plies	× .15	= Pound Felt/Square Foot
	× .3	= Pound Tar/Square Foot
Square Feet	× 4.0	= Pound Gravel
Wood Deck: Sqft	× .05	= Pound Rosin Paper
	× 20.	= Feet
Rope:	× 6.0960	= Meter
Manila: Pounds Load to be Lifted	× 5.	= Pound Safe Tensile Strength
1/4" Dia. (3/4" Cir)(60'/#)	= 600.	= Pound Tensile
3/8" Dia. (1-1/8" Cir)(26.7'/#)	= 1350.	= Pound Tensile
1/2" Dia. (1-1/2" Cir)(15'/#)	= 2650.	= Pound Tensile
3/4" Dia. (2-1/4" Cir)(6.6'/#)	= 5400.	= Pound Tensile
Pound Pull × Number Sheaves × (.86	× Each Sheave)	= Pound Load to Lift
Rope: 6×7 Wire: (Diameter in Inch	× 2.38) - .8	= Pound/Foot
	× 10.4) - 3.4	= Short Ton Work Load
6 × 19 Wire: (Diameter in Inch)	× 2.78) - 1.12	= Pound/Foot
	× 11.6) - 4.45	= Short Ton Work Load
Rope Slings: Lb Safe Load × Safety Factor	= 2.	× psi Tensile × Sine of Angle
Rotl	× 7.	= Foot US
Rubber: Specific Heat	= .48	= Btu/Pound/°F
Rubidium: (Rb): #37:85.48 AW:		
Run	× 1600.	= Yard/Pound Avoir
Ruthenium: (Ru): #44:101.7 AW:		
		S
Sabin	× 1.0	= Sound Absorption Unit-Total
	× 1.0	= Sqft Total Absorbing Surface
Sabin = Absorption Coeff. of Accoustical Material		× Room Area Sqft
Sabin × Seconds Reverberation	× 20.	= Cuft (Room Size)
Sack	× 3.0	= Bushel US Std Struck
Sack British	× 3.0	= Bushel Imperial
	× .10911	= Cubic Meter
Sagene	× 7.	= Foot US

CONVERSION FACTORS

Salm	× 8.26	= Bushel US
Salt Water: Spg 1.100-60F: Height Feet	× .477	= Pound/Square Inch
1.154-60F: Barrel (42)	× 404.25	= Pound Weight
Cubic Feet	× 72.	= Pound Weight
Height Feet	× .500	= Pound/Square Inch
1.200-60F: Height Feet	× .520	= Pound/Square Inch
1.250-60F: Height Feet	× .542	= Pound/Square Inch
Samarium: (Sm): #62:150.43 AW:		
Sand: Dry:	= 1.44 to 1.76	= Average Specific Gravity
	= 38.	= Degree Natural Slope
Cubic Foot	× 89.7 to 110	= Pound (Range)
	× .04 to .05	= Ton Long (Range)
Cubic Yard	× 2422 to 2970	= Pound
	× 1.1 to 1.35	= Ton Long (Range)
Cubic Yard × 4945.	= Diam Inch Squared × Ft of Hole Filled	
Diam Inch Squared × Ft Hole Filled	× .0002022	= Cubic Yard
Square Foot	× 2 to 4	= Ton Long (Support)
Pit: Dry: Cubic Foot	× .0455	= Ton Long
River: Dry: Cubic Foot	× .0476	= Ton Long
Specific Heat	= .20	= Btu/Pound/°F
Wet:	= 1.89 to 2.07	= Average Specific Gravity
	= 22.	= Degree Natural Slope
Cubic Foot	× 118 to 129	= Pound
Standing Interior Finishes: Square	× 1.25	= Man-Hr (Plain Hardwood)
	× 1.0	= Man-Hr.(Plain Softwood)
	× 1.5	= Man-Hr (Molded Hardwood)
	× 1.25	= Man-Hr (Molded Softwood)
Sandstone: Cubic Yard	× 39 to 44	= Hundredweight
Building Stone: Cubic Foot	× 164.	= Pound
Ton	× 12.2	= Cubic Feet
Sashen	× 3.0	= Arshin
	× 7.0	= Feet US
	× 2.1336	= Meter
	× 12.0	= Tchetvert
	× 48.0	= Vershok
Saum	× 150.	= Liter
	× 100.	= Maass
Saw Blade Thickness Should Be	.001	= Inch Pulley Diameter
Sawdust: Cubic Foot	× 13.	= Pound
Saybolt-Furol Second	(See pg. 163)	= Saybolt-Universal Second
Saybolt Universal Second	(See pg. 163)	= Centistoke
@ 100F	× .0285	= Engler Degree @ 100F
	× .2165	= Kinematic Centistoke @ 100F
	× .8773	= Redwood #1 Seconds @ 100F
	× .10	= Saybolt-Furol Second
Scaffolds: Covered Area in Square Feet	× .033	= Board-Foot/Foot High
Covered Floor Area in Sqft	× 2.	= Plank Board-Feet
Dismantling:	= 50%	= Salvable Lumber
Board-Feet	× .003	= Labor-Hour
Erecting: Board-Feet	× .016	= Carpenter-Hour
Scandium: (Sc): #21:45.10 AW:		
Score	× 20.	= Articles or Units
Scruple Apothecaries	× .333	= Dram Apoth
	× .7314286	= Dram Avoir
	× 20.	= Grain Apoth
	× 1.2959784	= Gram
	× .0012959	= Kilogram
	× 1295.9784	= Milligram
	× .041666	= Ounce Apoth
	× .0347143	= Ounce Avoir
	× .83333	= Pennyweight
	× .0034722	= Pound Apoth
	× .0028571	= Pound Avoir
Se	× .02451	= Acre
Sea Water (Spg 1.025): Cubic Foot	× 64.	= Pound (Common)
Gallon	× 8.55	= Pound (Common)

Second (sec)

Second × Volt
× Volt
× Volt
× Watt
Second-Foot

Second-Foot/Day
Second-Foot/Year

Second Mean Solar
Second/Milligram

Second of Longitud
Seconds in Arc × F
Second Squared
Second Squared ×
×

Section

Sector: Circle: Ang
Arc
Par
Rad
Rad
Rad
Sin
Sin
Sq
Sq
Sq
Sector: Semicircle
Sector: Sphere: Co
Ra
Ra

Second (sec)	× .6/o7716	= Circle-Revolution
	× Ampere	= Coulomb
	× .4/o1157407	= Day
	× .0002778	= Degree
	× .00031	= Grade
	× .0002777	= Hour
	× Watt	= Joule
	× 1(8/o).	= Line/Volt
	× .01666	= Minute
	× .6/o3805	= Month (1/12 Year)
	× .5/o3087	= Quadrant
	× .5/o484814	= Radian
	× .7/o317	= Year
Second × Volt	× Ampere	= Joule
× Volt	× 1(8/o).	= Line
× Volt	× Ampere	= Watt-Second
× Watt	× 1(7/o).	= Dyne-Centimeter or Erg
Second-Foot	× 1.98347	= Acre-Feet
	× 1.0	= Acre-Inch/Hour
	× 86400.	= Cubic Feet/Day
	× 1.0	= Cubic Foot/Second
	× 6.23	= Gallon British/Second
	× 646272.	= Gallon Liquid US/Day
	× 448.8	= Gallon Liquid US/Minute
	× 7.4805194	= Gallon Liq US/Second/Day
	× .1136	= Horsepower/Falling Foot
	× 448.83116	= Minute-Gallon
	× 40.	= Miner-Inch (Ariz-Calif)
	× 38.4	= Miner-Inch(Colorado)
Second-Foot/Day	× 646316.8762	= Gallon/Day
Second-Foot/Year	× 31536000.	= Cubic Feet
	× 1.13	= Feet Deep/Square Mile
	× 13.57	= Inch Deep/Square Mile
Second Mean Solar	× 1.00273791	= Sidereal Second
Second/Milligram	× 11.57407	= Day/Kilogram
	× .36	= Day/Ounce Apoth-Troy
	× 5.24991	= Day/Pound Avoir
	× .27778	= Hour/Gram
	× 8.63986	= Hour/Ounce Apoth-Troy
	× 7.87487	= Hour/Ounce Avoir
	× 125.99790	= Hour/Pound Avoir
	× .98563	= Year/Kilo-Ounce Apoth-Troy
	× 31.68877	= Year/Ton Metric
	× 26.74767	= Year/Ton Short Avoir
Second of Longitude	× .06666	= Second of Time
Seconds in Arc × Radius	× .5/o484814	= Length of Arc
Second Squared	× Dyne	= Gram-Centimeter Mass
Second Squared × Pound-Force	= Pound-Force Density × Foot Fourth Power	
× Pound-Force × SpHt Btu/lb-°F × Second Squared	= Btu × Foot	
Section	× 640.	= Acre
	× 1.	= Square Mile
Sector: Circle: Angle Radians	× Radius	= Arc Length
Arc Length × Radius	× .5	= Area
Part of Circle Between Arc and Two Radii.		
Radius × Angle Degree	× .0174532	= Arc Length
Radius Squared × Angle Degree	× .008722419	= Area
Radius Squared × Angle Radian	× .5	= Area
Sin (.5 Angle Degree) × Radius	× 2.	= Sector Chord
Sin (.5 Angle Radian) × Radius	× 2.	= Sector Chord
Sq Root of (Diameter	× Rise)	= Chord of Half of Arc
Sq Root of Rise × (Diameter - Rise)	× 2	= Chord
Sq Root of (Radius Squared - .25	Chord Squared)	- Radius = Rise
Sector: Semicircle: Radius Squared	× 1.5707	= Area
Sector: Sphere: Cone Area	+ Cap Area	= Total Area
Radius × Cap Area	× .3333	= Volume
Radius Squared × Arc Height	× 2.0943951	= Volume

CONVERSION FACTORS

Segment: Circle: Angle Radians	× Radius	= Arc Length
Chord × Height	× .666	= Area (3% Error)
Part of Circle Between Arc and Chord.		
Radius × Angle Degree	× .0174532	= Arc Length
Sin (.5 Angle Degree) × Radius	× 2.	= Chord
Sin (.5 Angle Radian) × Radius	× 2.	= Chord
Sq Root of (2 × Hgt × Radius	- Hgt Squared)	× 2 = Chord
Sq Root of Height × (Diam - Height)	× 2.	= Chord
Segment: Sphere: Arc Height × Radius	× 6.2832	= Spherical Surface Area
Arc Hgt Squared × π × Radius	- 1.047 × Hgt	= Volume
Selenium: (Se): #34:78.96 AW:		
Semicircle: Radius	× 3.1416	= Length
Seven-Gram	= 1(7/o).	= Gram
Sextillion	= 1(21/o).	= Units
Shaft: Avg Load: Diam Cubed × rpm	× .0091	= HP
Hvy Load: Diam Cubed × rpm	× .008	= HP
Inch Diameter × rpm	× .11039	= Sq Root of Indicated HP
Inch Diameter Cubed × rpm	× .015625	= Maximum Safe Horsepower
Inch Diameter Squared × rpm Squared	× .01218595	= Indicated Horsepower
Jacks & Counters: Diam Cubed × rpm	× .0111	= HP
Light Load: Diam Cubed × rpm	× .010	= HP
Line: Avg Load: Diam Cubed × rpm	× .0111	= HP
Hvy Load: Diam Cubed × rpm	× .010	= HP
Light Load: Diam Cubed × rpm	× .0133	= HP
Square Root of Horsepower/rpm	× 8.062	= Inch Shaft Diam Needed
Shaku	× 11.93	= Inch US
Shale: Cubic Yard	× 2400 to 3000	= Pound
Shekel	× 252.666	= Grain Gold
	× 16.177	= Grain Silver
Shell: Drum or Tube: Unit Stress (psi)	× 2t"/d"	= psi Internal Pressure
Sherman-Bourquin Unit	× 2.5	= Gamma (Riboflavin)
Sherman Unit B_1	× .5	= International Unit
	× 1.5	= Microgram
	× .0015	= Milligram
Sherman Unit C	× 10.	= International Unit
	× .5	= Milligram
	× 10.	= USPX1
Shingles: Slate: Number Shingles	× .01	= Pound of Nail
Number Shingles/Square	× .01	= Pound of Nail/Square
Square	× (40560/a")-19	= Number Shingle Needed
Square Foot	× (406/a")-.2	= Number Shingle Needed
Wood:	= 4 × 16 to 18	= Inch Average Size
Bundle	× 239 to 250	= Avg Number Shingle
Each 100 Shingles	× 3iw - 2.	= Square Feet Covered
Each 1000 Shingles	× 30iw - 20.	= Square Feet Covered
Number Shingles	× .03iw - .02	= Square Feet Covered
Square	× 16/iw	= Pound Nail
Square Foot	× (48/iw) - 2.	= Number Shingle Needed
Square Feet	× .16/iw	= Pound Nail Needed
a" = Area Sqin.	iw = Inches to Weather	
Shingling: Asphalt Single: Square	× 2.75	= Man-Hour
Asphalt Strip: Square	× 2.00	= Man-Hour
Asphalt Twin: Square	× 2.25	= Man-Hour
Number Wood Shingles	× .005	= Man-Hr (Curved Surface)
	× .004	= Man-Hr (Side Wall)
	× .0036	= Man-Hr (Straight Roof)
Sho	× 1.91	= Quart Liquid US
Siemen (G)	× 1.0	= Conductance Unit
	× .9407	= Ohm International
Sign	× 30.	= Degree
Silage: Cubic Foot	× 35.	= Pound (Average)
	× .0175	= Short Ton
Number Cows	× 40.	= Pound Silage/Day
Short Ton	× 57.14	= Cubic Feet

Silicon: (Si): #14:28.06 AW: Val. +4

Silver: (Ag): #47:107.880 AW: SpHt. .06 Val. + 1:10.5 gm/cc:MP960.5:BP 2001C:

Length
(3% Error)
Chord
ical Surface Area
ot of Indicated HP
mum Safe Horsepower
ted Horsepower
haft Diam Needed
/S
Gold
Silver
ternal Pressure
a (Riboflavin)
ational Unit
ram
ram
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am
il
of Nail/Square
Shingle Needed
Shingle Needed
verage Size
umber Shingle
Feet Covered
Feet Covered
Feet Covered
Nail
Shingle Needed
Nail Needed
ther
our
our
our
(Curved Surface)
(Side Wall)
(Straight Roof)
iquid US
tance Unit
nternational
Average)
Ton
Silage/Day
Feet

CONVERSION FACTORS

Silver: (Ag): Cubic Foot		× 656.	= Pound 68F
Linear Expansion: Inch		× 10.8	= Micro-Inch/Degree F
Point		= 960.5	= Degree Centigrade (Int)
Six-Gram		= 1(6/o).	= Gram
Skalpund		× 425.076	= Gram
		× 1000.	= Korn
		× 100.	= Ort
		× .9371	= Pound Avoir US
Skein	× .9371	× 360.	= Feet Common
		× 109.73	= Meter
		× 120.	= Yard Common
		× 840.	= Yard Cotton
		× 1600.	= Yard Worsted
Skin: Human: Dry: Resistance to Electric Current		= 100 to 600000.	= Ohms
Wet: Resistance to Electric Current		= 1000	= Ohms
Skippund		× 20.	= Liespund
		× 400.	= Skalpund
Slag: Crushed: Cubic Yard		× 2000.	= Pound
Ton Short		× 1.0	= Cubic Yard
Slate: Building Stone: Cubic Foot		× 175.	= Pound
Ton		× 11.4	= Cubic Feet
Specific Gravity		= 2.8	
Slip: Dirt Work: Feet Hauled		× .20	= Hour/Cuyd (Horse Drag)
		× .045	= Hour/Cuyd (Tractor Drag)
Slug		× 1.0	= Geepound
		× 14.594	= Kilogram-Mass
		× 1.4881	= Kilogram-Slug
		× 1.0	= Pound/Foot/Second Squared
		× fpss	= Pound-Force
		× Gravity	= Pound-Force
		× 32.1739	= Pound-Mass
		× 1.0	= Slug-Mass
Slug/Cubic Foot		× 32.1739	= Pound-Mass/Cubic Foot
		× .51546	= Specific Gravity
Slug-Foot Squared		× 13559000.	= Gram-Centimeter Squared
		× 1.3559	= Kilogram-Meter Squared
		× 32.1739	= Pound-Foot
		× 4633.04	= Pound-Inch
Snow: Cubic Foot		× 7.2	= Pound @ 32F
		× 4.9	= Pound @ 20F
		× 5 to 12	= Pound (Fresh Fallen)
Inch Deep		× .1	= Inch of Water
Horizontal Square Feet of Roof		× 25.	= Pound Snow Load (Under 20F)
Number Degrees over 20F		× 1.	= Pound (Deduct from Snow Load)
Rain Compacted: Cubic Foot		× 15 to 50	= Pound
Soap: Pound		× 25344000.	= Bubble (Saponification)
(To Precipitate Water Hardness)		× .666	= Grain/Gallon
Sodium: (Na): #11:22.997 AW: Val. +1:			
Density: Liter		× 1.026	= Gram
Sodium Bicarbonate		× .631	= Sodium Carbonate
Sodium Carbonate + Calcium Chloride		= Calcium Carbonate	+ Sodium Chloride
+ Calcium Hydroxide		= Calcium Carbonate	+ Sodium Hydroxide
+ Calcium Hydroxide		= Sodium Hydroxide	+ Calcium Carbonate
+ Calcium Sulfate		= Calcium Carbonate	+ Sodium Sulfate
+ Hydrocloric Acid		= Sodium Chloride	+ Water + Carbon Dioxide
+ Mg-Chloride + Cal-Hydroxide		= Mg Hydroxide	+ Cal-Carb + Sod Chloride
+ Mg-Sulfate + Cal-Hydroxide		= Mg Hydroxide	+ Cal-Carb + Sod Sulfate
Sodium Chloride + Silver Nitrate		= Silver Chloride	+ Sodium Nitrate
Sodium Hydroxide + Carbon Dioxide		= Sodium Carbonate	+ Water
+ Hydrochloric Acid		= Sodium Chloride	+ Water
+ Sulfuric Acid		= Sodium Sulfite	+ Water
Sodium Nitrate + Sulfuric Acid		= Nitric Acid	+ Sodium Hydrogen Sulfate
+ Sulfuric Acid		= Nitric Acid	+ Sodium Sulfate
Solar Radiation: Energy Falling; Minute		× 1.93	= Gram-Calorie/Sq Centimeter
Sound: Each Time Distance is Doubled, Intensity is Reduced Four Times, or 6 db.			
Second		× 1125.	= Feet (Common)

CONVERSION FACTORS

Sound Second	× 1091.	= Feet 32F
	× 332.53	= Meter 32F
Sound: 256 cy/sec: Wave Length	= 1.34	= Meter in Air 20C
Sound: 256 cy/sec: Wave Length	= 5.70	= Meter in Water 20C
	= 13.7	= Meter in Brass Rod 20C
Square Root of (Sabin	× .0198)	= Feet Distance
Wave Length	× Frequency	= Sound Velocity
Span	× .00104167	= Cable Length
	× 22.86	= Centimeter
	× .125	= Fathom
	× 9.	= Inch
Spandrel: Chord Squared	× .1073	= Area
Radius Squared	× .2146	= Area
Specific Gravity	× 1.0	= Density (In Metric System)
	× 28.9	= Gram-Molecular Wgt of Gas
	× Stroke	= Poise
	× 62.355	= Pound/Cubic Foot 62F
	× 62.366	= Pound/Cubic Foot 60F
	× 62.4245	= Pound/Cubic Foot 39.1F
	× .0360850	= Pound/Cubic Inch 62F
	× .0360891	= Pound/Cubic Inch 60F
	× .03612557	= Pound/Cubic Inch 39.1F
		= Ratio of Density to Water
	× 1.94	= Slug/Cubic Foot
Specific Gravity × Weight Equal Volume Water		= Weight of Substance
× Weight of Displaced Water		= Weight of Solid
Specific Gravity Oil @ 60F	× Centistoke	= Centipoise
Specific Heat: Btu/Lb-°F × Pound-Force × °F	× Second Squared	= Btu × Foot
× Fahrenheit Degree	× Pound-Mass	= Btu
Constant	× Pound-Mass-°F	= Pound-Force
Of Solid Element	× Atomic Weight	= 6.2 (Approx.)
Of Solid Element × Atomic Weight	× .16129	= 1.0
Unit		= Gm-Calorie/gm/°C
		= Btu/Pound/°F
Specific Volume	× Density	= 1.0
	× Specific Wgt	= 1.0
Specific Volume (cuft/Lb Mass) × Density (Lb Mass/cuft)		= 1.0
Specific Weight	× Sp Volume	= 1.0
Sphere:	× 2.	= Hemisphere
	× 8.	= Spherical Right Angle
	× 12.57	= Steradian
Sphere: Circumference	× Diameter	= Surface Area
Circumference Cubed	× .016887	= Volume
Circumference Squared	× .3183	= Surface Area
Cube Root of Volume	× 1.2407	= Diameter
Diameter Cubed	× .523599	= Volume
Diameter Squared	× 3.1416	= Convex Surface Area
Lateral Area of Circumscribed Cylinder		= Area of Sphere
Radius	× 1.1547	= Side of Inscribed Cube
Radius Cubed	× 4.18879	= Volume
Radius Squared	× 12.56637	= Convex Surface Area
Surface Area × Diameter	× .16666	= Volume
Volume Circumscribed Cylinder	× .666	= Volume of Sphere
Sphere Segment: Radius × Height	× 6.2832	= Spherical Surface Area
Spherical Degree	× .01745292	= Steradian
	× .0013888	= Steregon
Spherical Right Angle	× .25	= Hemisphere
	× .125	= Sphere
	× 1.571	= Steradian
Spheroid: Oblate: Long Semiaxis Squared × Medium Semiaxis × 4.18879		= Volume
Prolate: Long Semiaxis × Medium Semiaxis Squared × 4.18879		= Volume
Sprocket: Number Teeth of Driven	× Speed Ratio	= Number Teeth of Driver
Number Teeth of Driver/Number Teeth of Driven		= Speed Ratio
rpm of Driven	× Speed Ratio	= rpm of Driver
Spruce: Weight	× 6.4805	= Aluminum Alloy Weight
	× 18.1312	= Steel Weight

Spruce: Weight of 1 Sqin × 1 Ft	= .18750	= Pound
Spyndle (Jute)	× 14400.	= Yard/Pound Avoir
Squad	× 8.	= Men
Square	× 100.	= Square Feet (Bldg Trades)
Square: Diagonal Squared	× .5	= Area
Side	× 1.414	= Diagonal Length
Side Squared	× 1.	= Area
Square Acre	= 208.7103	= Feet on Each Side
Square Centimeter (sqcm)	× .7/o2471	= Acre
	× 1.27324	= Circular Centimeter
	× .197352	= Circular Inch
	× 127.324	= Circular Millimeter
	× 197352.	= Circular Mil
	× .7/o1	= Hectare
	× .6/o247	= Square Chain Gunter
	× .01	= Square Decimeter
	× .001076317	= Square Foot
	× .15499969	= Square Inch
	× .00247104	= Square Link
	× .0001	= Square Meter
	× 154999.69	= Square Mil
	× .10/o3861	= Square Mile
	× 100.	= Square Millimeter
	× .5/o3954	= Square Rod
	× .00011959	= Square Yard
Square Chain Engineer	× .2296	= Acre
	× 9.29	= Are
	× 12732.4	= Circular Foot
	× 1833460.	= Circular Inch
	× .0929034	= Hectare
	× .9184	= Rood
	× 9290340.	= Square Centimeter
	× 2.296	= Square Chain Gunter
	× 92903.4	= Square Decimeter
	× 10000.057	= Square Foot British
	× 1440000.	= Square Inch
	× .000929	= Square Kilometer
	× 929.034	= Square Meter
	× .0003587	= Square Mile Statute US
	× 929034000.	= Square Millimeter
	× 36.73	= Square Rod
	× 1296	= Square Vara
	× 1111.11	= Square Yard
	× 10000.	= Square Foot US
Square Chain Gunter	× .1009	= Acre
	× 4.04687	= Are
	× .4	= Rood
	× .0001562	= Section
	× 4046873.	= Square Centimeter
	× 4396.	= Square Feet
	× 627264	= Square Inch
	× 10000.	= Square Link
	× 404.6873	= Square Meter
	× .0001562	= Square Mile Statute US
	× 4047(5/o).	= Square Millimeter
	× 16.	= Square Perch
	× 16.	= Square Pole
	× 16.	= Square Rod
	× 484.444	= Square Yard
Square Decameter (sqdkm)	× 3.954	= Square Rod
Square Decimeter (sqdm)	× 100.	= Square Centimeter
	× .1076317	= Square Foot
	× 15.499969	= Square Inch
	× .01	= Square Meter
	× .011959	= Square Yard
Square Foot British	× .99999419	= Square Foot US

CONVERSION FACTORS

Square Foot British / Square Foot US (Sqft)

× .0929029	=	Square Meter
× .4/o2296	=	Acre
× .000929	=	Are
× 1.27324	=	Circular Foot
× 183.346	=	Circular Inch
× .5/o929034	=	Hectare
× .4/o9184	=	Rood
× 929.0341	=	Square Centimeter
× .0002296	=	Square Chain Gunter
× 9.29034	=	Square Decimeter
× 1.0000057	=	Square Foot British
× 144.	=	Square Inch
× .7/o929034	=	Square Kilometer
× 2.2956	=	Square Link
× .0929034	=	Square Meter
× .7/o3587	=	Square Mile Statute US
× 92903.4	=	Square Millimeter
× .003673	=	Square Rod
× .1296	=	Square Vara
× .1111	=	Square Yard

Square Foot/Cubic Foot

× 1.0	=	Interfacial Area Unit

Square Inch (sqin)

× .6/o1594	=	Acre
× 1.2732	=	Circular Inch
× 1273239.	=	Circular Mil
× .7/o6451	=	Hectare
× .6/o6377	=	Rood
× 6.451626	=	Square Centimeter
× .5/o1594	=	Square Chain Gunter
× .064516	=	Square Decimeter
× .006944	=	Square Foot
× .9/o6451	=	Square Kilometer
× .0159432	=	Square Link
× .0006451	=	Square Meter
× 1(6/o).	=	Square Mil
× .9/o2491	=	Square Mile Statute US
× 645.16	=	Square Millimeter
× .4/o2551	=	Square Rod
× .0007716	=	Square Yard

Square Kilometer (sqkm)

× 247.104	=	Acre
× 100.	=	Hectare
× 10763845.488	=	Square Feet
× 1(6/o).	=	Square Meter
× .3861006	=	Square Mile Statute US
× 39536.622	=	Square Rod
× 1195982.83	=	Square Yard

Square Link Gunter

× .4/o1	=	Acre
× .5/o4047	=	Hectare
× 404.6873	=	Square Centimeter
× .0001	=	Square Chain Gunter
× .4356	=	Square Foot
× 62.7264	=	Square Inch
× .04046873	=	Square Meter
× .7/o15625	=	Square Mile
× .0016	=	Square Rod
× .0484	=	Square Yard

Square Meter (sqm)

× .000247104	=	Acre
× .01	=	Are
× 1.	=	Centare or Centaire
× .0001	=	Hectare
× .0009884	=	Rood
× 10000.	=	Square Centimeter
× .00247104	=	Square Chain Gunter
× 100.	=	Square Decimeter
× 10.76387	=	Square Feet
× 1459.3969	=	Square Inch
× .5/o1	=	Square Kilometer

Square Meter (sqm)	× 24.7104	= Square Link
	× .6/o3861	= Square Mile Statute US
	× 1(6/o).	= Square Millimeter
	× .039537	= Square Rod
	× 1.19599	= Square Yard
Square Mil	× 1.27324	= Circular Mil
	× .5/o64516258	= Square Centimeter
	× .5/o1	= Square Inch
	× .00064516	= Square Milimeter
Square Mile (sqmi)	× 640.	= Acre
	× 258.9998	= Hectare
	× 2560.	= Rood
	× 259(8/o).	= Square Centimeter
	× 6400.	= Square Chain Gunter
	× 27878400.	= Square Feet
	× 4014489600.	= Square Inch
	× 2.589998	= Square Kilometer
	× 64(6/o).	= Square Link
	× 2589998.	= Square Meter
	× 259(10/o).	= Square Millimeter
	× 102400.	= Square Rod
	× 3097600.	= Square Yard
Square Millimeter (sqmm)	× 1973.5	= Circular Mil
	× .00155	= Circular Inch
	× .01	= Square Centimeter
	× .00155	= Square Inch
Square Perch	× .00625	= Acre
	× .2529	= Are
	× .002529	= Hectare
	× .025	= Rood
	× 252930.	= Square Centimeter
	× .0625	= Square Chain Gunter
	× .2529	= Square Dekameter
	× 272.25	= Square Feet
	× 39204.	= Square Inch
	× .4/o2529	= Square Kilometer
	× 625.	= Square Link
	× 25.29295	= Square Meter
	× .5/o9766	= Square Mile Statute US
	× 25293000.	= Square Millimeter
	× 30.25	= Square Yard
Square Pole	× .00625	= Acre
	× .2529	= Are
	× .002529	= Hectare
	× .025	= Rood
	× 252930.	= Square Centimeter
	× .0625	= Square Chain Gunter
	× .2529	= Square Dekameter
	× 272.25	= Square Feet
	× 39204.	= Square Inch
	× .4/o2529	= Square Kilometer
	× 625.	= Square Link
	× 25.29295	= Square Meter
	× .5/o9766	= Square Mile Statute US
	× 25293000.	= Square Millimeter
	× 30.25	= Square Yard
Square Rod	× .00625	= Acre
	× .2529	= Are
	× .002529	= Hectare
	× .025	= Rood
	× 252930.	= Square Centimeter
	× .0625	= Square Chain Gunter
	× .2529	= Square Dekameter
	× 272.25	= Square Feet
	× 39204.	= Square Inch
	× .4/o2529	= Square Kilometer

Square Rod	× 625.	= Square Link
	× 25.29295	= Square Meter
	× .5/o9766	= Square Mile Statute US
	× 25293000.	= Square Millimeter
	× 30.25	= Square Yard
Square Vara	× 7.716	= Square Feet
Square Yard (sqyd)	× .000206612	= Acre
	× .4/o8361	= Hectare
	× .0008264	= Rood
	× 8361.307	= Square Centimeter
	× .002066	= Square Chain Gunter
	× 9.	= Square Feet
	× 1296.	= Square Inch
	× .6/o8361307	= Square Kilometer
	× .836131	= Square Meter
	× .6/o3228	= Square Mile Statute US
	× 836130.7	= Square Millimeter
	× .03306	= Square Rod
Stainless Steel: Linear Expansion: Inch	× 17.8	= Micro-Inch/°C(18-8)
	× 9.9	= Mirc-Inch/°F(18-8)
Stannic: Sn:	= +4	= Valence
Stannous: Sn:	= +2	= Valence
Staples: Fence: #9 Gage: Pound	× (120/L")-10	= Number Staples (L=Inch Lgt)
Statampere	× .10/o33358	= Abampere
	× .9/o333585	= Ampere
Statampere/Square Centimeter	× .10/o3335	= Abampere/Sq Centimeter
	× .9/o3335	= Ampere/Sq Centimeter
	× .8/o2151	= Ampere/Sq Inch
	× .5/o3335	= Ampere/Sq Meter
Statcoulomb	× .10/o33358	= Abcoulomb
	× .13/o92663	= Ampere-Hour
	× .9/o333585	= Coulomb
	= 1.0	= Electric Charge Unit
	× .14/o34571	= Faraday
Statcoulomb/Square Centimeter	× .10/o3335	= Abcoulomb/Sq Centimeter
	× .9/o3335	= Coulomb/Sq Centimeter
	× .8/o2151	= Coulomb/Sq Inch
	× .5/o3335	= Coulomb/Sq Meter
Statfarad	× .20/o11127	= Abfarad
	× .11/o111279	= Farad
	× .5/o1112	= Microfarad
Stathenry	× 898645(15/o).	= Abhenry
	× 898645(6/o).	= Henry
	× 898645(12/o).	= Microhenry
	× 898645(9/o).	= Millihenry
Statmho	× .11/o111279	= Moh
Statoersted	× 1.	= Esu(Magnetizing Force)
	× .10/o333585	= Oersted
Statohm	× 898645(15/o).	= Abohm
	× 898645.	= Megohm
	× 898645(12/o).	= Microhm
	× 898645(6/o).	= Ohm
Statvolt	× 299774(5/o).	= Abvolt
	× 299774(3/o).	= Microvolt
	× 299774.	= Millivolt
	× 299.774	= Volt
Statvolt/Centimeter	× 299774(5/o).	= Abvolt/Centimeter
	× .2998	= Kilovolt/Centimeter
	× 299774(5/o).	= Microvolt/Meter
	× 29977400.	= Millivolt/Meter
	× 299.774	= Volt/Centimeter
	× 761.6	= Volt/Inch
	× 29977.4	= Volt/Meter
	× .7616	= Volt/Mil
Statweber	× 1.	= Magnetic Flux Unit
	× 299774(5/o).	= Maxwell

Statweber
Steam: Cast Iron Ra
Cast Iron Ra
C pot
Cubic Inch o
Micromho
Point
Pound of Wa
Pound Weigh
ppm Impurity
Steel: Bar or Rod: E
Bending: (Lgt
Cast Linear E
Cold Roll: Cor
Cub
Lin
Ten
Ten
Cubic Foot
Cubic Inch
Dead Load: S
°F Increase
Feet Long × I
Hard: Linear E
Heat Conducti
Inch Length ×
Medium: Linea
Modulus Elast
Safety Factor
Shock: Safety
Soft: Linear E
Specific Heat
Specific Therm
The Condu
Weig
Steel: Weight: Bar 1
200-1100F: °F
Stellite: Linear Expan
Step Military
Steps: Rise-Tread Re
Steradian
Stere
Steregon
Sthene
Stilb (sb)

Statweber	× 299.774	= Weber
Steam: Cast Iron Radiation: Area in Sqft	× 110.	= Btu/Degree-Day (Consumes)
Cast Iron Radiation: Area in Sqft	× 240.	= Btu/Hour (Transmits)
Cubic Foot	× .03732	= Pound Weight
Cubic Inch of Water at 212F	× 1646.	= Cubic Inches of Steam
Micromho	× .6	= ppm Impurity-Steam-77F
Point	= 100.000	= Degree Centigrade
Pound of Water at 212F	× 27222.	= Cubic Feet of Steam
Pound Weight	× 26.795	= Cubic Feet (Volume)
ppm Impurity	× 100.	= %Moisture × ppm Boiler Water
Steel: Bar or Rod: End Area Sqin	× 3.4	= Pound/Linear Foot
Bending: (Lgth Ft × Thick Inch Sqd	× 575/(In Wide	Female Die = Ton Load Press Brake
Cast Linear Expansion: Inch	× 11.0	= Micro-Inch/°C
	× 6.1	= Micro-Inch/°F
Cold Roll: Compression	= 60000.	= psi
Cubical Expansion	= 19.	= Parts/Million/°F
Linear Expansion	× 6.2	= Parts/Million/°F
Tensile	= 60000.	= psi
Tensile psi	× .75	= psi Ultimate Shear
Cubic Foot	× 489.569	= Pound (Pipe-Tube) 7.851 spg
Cubic Inch	× .2833	= Pound (Pipe-Tube) 7.851 spg
Dead Load: Safety Factor	= 3-4	= Based on Ultimate Stress
°F Increase	× 200.	= psi (When in Tension)
Feet Long × Inch Wide × Inch Thick	× 3.4	= Pound
Hard: Linear Expansion: Inch	× 13.2	= Micro-Inch/°C
	× 7.3	= Micro-Inch/°F
Heat Conductivity: k	= 26.	= Btu/(Hr)(Sqft)(°F/Ft)
Inch Length × psi Pull	× .7/o333	= Inch Stretched
Medium: Linear Expansion: Inch	× 12.0	= Micro-Inch/°C
	× 6.7	= Micro-Inch/°F
Modulus Elasticity	= 3(7/o).	= psi
Safety Factor	× Design Stress	= Ult Stress or Elastic Limit
Shock: Safety Factor	= 10-15	= Based on Ultimate Stress
Soft: Linear Expansion Inch	× 11.0	= Micro-Inch/°C
	× 6.1	= Micro-Inch/°F
Specific Heat	= .1166	= Btu/Pound/°F
Specific Thermal Capacity	= 64.0	= Watt-Second/Cuin/°C
Thermal Conductivity	= 1.1	= Watt/°C/Inch
Weight	× .3574	= Aluminum Alloy Weight
	× 1.140	= Copper Weight
	× 1.084	= Inconel Weight
	× 1.126	= Monel Weight
	× 1.133	= Nickel Weight
	× .05515	= Spruce Weight
Steel: Weight: Bar 1 Sqin × 1 Ft	= 3.3996	= Pound
200-1100F: °F × .8/o22	+ .5/o61	= Expansion Coeff ppm/°F
Stellite: Linear Expansion: Inch	× 8.5	= Micro-Inch/Degree F
Step Military	× 2.5	= Feet
Steps: Rise-Tread Relation: 12.5 Minus (.5	× Inch Tread)	= Rise in Inches
25 Minus (2.	× Inch Rise)	= Tread in Inches
Steradian	× .1592	= Hemisphere
	× .07958	= Sphere
	× 57.2957795	= Spherical Degree
	× .6366	= Spherical Right Angle
	× .0795779	= Steregon
Stere	× .2759	= Cord
	× 35.3105	= Cubic Feet
	× 1.	= Cubic Meter
	× 1.308	= Cubic Yard
Steregon	× 720.	= Spherical Degree
	× 12.56637061	= Steradian
Sthene	× 1(8/o).	= Dyne
Stilb (sb)	× 1.0	= Candle/Square Centimeter
	× 6.4516	= Candle/Square Inch
	× 2919.	= Foot-Lambert
	× 3.1416	= Lambert

CONVERSION FACTORS

Stilb (sb)	× 3141.6	= Millilambert
St. Louis Heating Load	= 4580.	= Degree-Day
Stoke	× 100.	= Centistoke
	× Spg	= Poise
	× 1.0	= Square Centimeter/Second
	× .001075	= Square Feet/Second
Stone Avoirdupois	× .125	= CWT
	× 6.350	= Kilogram
	× 14.	= Pound
Stone: Crushed: Cubic Foot	× 100.	= Pound (Spg 1.6)
Cut: Handling: Car to Truck	= .04	= Man-Hour/Cubic Foot
Truck to Pile	= .04	= Man-Hour/Cubic Foot
Wheeling	= .03	= Man-Hour/100' Wheeled
Handwork: Setting Ashler	= .2	= Laborer-Hour/Cubic Foot
	= .12	= Mason-Hour/Cubic Foot
Set Cornice	= .2	= Mason-Hour/Cubic Foot
Set Sill or Lintel	= .3	= Helper or Mason-Hr/Cuft
Old Work: Clean or Point	= .015	= Labor-Hour/Square Foot
	= .03	= Mason-Hour/Square Foot
New Work: Wash or Point	= .01	= Labor-Hour/Square Foot
	= .02	= Mason-Hour/Square Foot
Pointing: Heavy Foundation	= .0003	= Cuyd Mortar/Cuft Stone
Ornamental Work	= .0004	= Cuyd Mortar/Cuft Stone
Sill or Lintel	= .0005	= Cuyd Mortar/Cuft Stone
Thin Ashler	= .0005	= Cuyd Mortar/Cuft Stone
Setting: Heavy Foundation	= .001	= Cuyd Mortar/Cuft Stone
Set or Parge: Ornamental	= .0013	= Cuyd Mortar/Cuft Stone
Sill or Lintel	= .0015	= Cuyd Mortar/Cuft Stone
Thin Ashler	= .0015	= Cuyd Mortar/Cuft Stone
Stone: Handling: Pit to Truck: Cubic Yard	× .78	= Man-Hr Large Round Boulder
	× .725	= Man-Hr Large Split Stone
	× .725	= Man-Hr Small Round Cobble
	× .67	= Man-Hr Split Stone
Hauling Calculation: Ton	× .78	= Cubic Yard
Cubic Yard	× 2600.	= Pound
Lay: Wall 18-30" Flat Split Stone	= .26	= Cuyd Mortar/Cuyd Wall
	= 2.5	= Mason or Helper-Hr/Cuyd Wall
Wall 30-48": Cobble or Boulder	= .3	= Cuyd Mortar/Cuyd Wall
	= 5.25	= Helper-Hour/Cuyd Wall
	= 6.25	= Mason-Hour/Cuyd Wall
Cobweb Rubble	= .15	= Cuyd Mortar/Cuyd Wall
	= 5.3	= Helper-Hour/Cuyd Wall
	= 6.4	= Mason-Hour/Cuyd Wall
Wall Random or Coursed Ashler	= .15	= Cuyd Mortar/cuyd Wall
	= 5.3	= Helper-Hour/Cuyd Wall
	= 6.4	= Mason-Hour/Cuyd Wall
Stone: Load-Wheel-Unload: Cuft	× .002	= Man-Hour/Foot Wheeled
Stone: Point: Raked Out: Large Boulder	= .018	= Laborer-Hr/Sqft
	= .05	= Mason-Hr/Sqft
Raked Out: Flat Stone	= .017	= Laborer-Hr/Sqft
	= .05	= Mason-Hr/Sqft
Raked Out: Random/Coursed	= .012	= Laborer-Hr/Sqft Ashler
	= .033	= Mason-Hr/Sqft Ashler
Ribbon Joint: Cobweb Rubble	= .033	= Laborer-Hr/Sqft
	= .1	= Mason-Hr/Sqft
Ribbon Joint: Random/Coursed	= .033	= Laborer-Hr/Sqft Ashler
	= .1	= Mason-Hr/Sqft Ashler
Smooth Joint: Cobweb Rubble	= .017	= Laborer-Hr/Sqft
	= .05	= Mason-Hr/Sqft
Smooth Joint: Random/Coursed	= .017	= Laborer-Hr/Sqft Ashler
	= .05	= Mason-Hr/Sqft Ashler
Stonework: Freestone: Beds or Builds	= .4	= Cutter-Hr/Sqft Surface
Fine Hammer	= 2.0	= Cutter-Hr/Sqft Surface
Face Hammer	= .8	= Cutter-Hr/Sqft Surface
Granite: Beds or Builds	= .5	= Cutter-Hr/Sqft Surface
Fine Hammer	= 2.5	= Cutter-Hr/Sqft Surface

Stonework: Granite: Face Hammer	= 1.0	= Cutter-Hr/Sqft Surface
Stram: Cubic Feet	× .0016	= Ton Short
Strontium: (Sr): #38.87.63AW:		
Structural Steel: Floor Beams	= 250.	= Sqft/Ton to be Painted
Girders-Columns	= 200.	= Sqft/Ton to be Painted
Trusses-Purlins	= 400.	= Sqft/Ton to be Painted
Studs: 2×4 Wall: 12" Spacing: Linear Feet	× .005H' + .08	= Carpenter-Hr(Hand Saw)
	× .0035H' + .056	= Carpenter-Hr (Power Saw)
	× .68H' + 2.56	= Board-Feet
16" Spacing: Linear Feet	× .005H' + .06	= Carpenter-Hr(Hand Saw)
	× .0035H' + .042	= Carpenter-Hr(Power Saw)
	× .5H' + 2.7	= Board-Feet
2×6 Wall: 12" Spacing: Linear Feet	× .018H' + .046	= Carpenter-Hr(Hand Saw)
	× .0128H' + .031	= Carpenter-Hr(Power Saw)
	× 1.17H' + 2.64	= Board-Feet
16" Spacing: Linear Feet	× .015H' + .04	= Carpenter-Hr(Hand Saw)
	× .0105H' + .028	= Carpenter-Hr(Power Saw)
	× 9.17H' + 2.66	= Board-Feet
Styrofoam #22: Compressive Yield Strength	= 16 to 32	= psi
Flexural Strength	= 42 to 61	= psi
(Polystyrene) Density	= 1.6 to 2.0	= Lb/Cuft
Shear Strength	= 27 to 36	= psi
Tensile Strength	= 45 to 61	= psi
Sulfate: SO_4	= -2	= Valence
Sulfate Radicle	× 1.48	= Sodium Sulfate
Sulfide: S:	= -2	= Valence
Sulfide Test: Sulfide + Hydrochloric Acid	= Hydrogen Sulfide	+ Metal Chloride
Sulfite: SO_3	= -2	= Valence
Sulfur: (S): #16:32.06 AW: SpHt .19: Val. -2:		
Sulfur: (S) Density: Liter	× 2.8607	= Gram
Point	= 444.6	= Degree C International
	= 444.7	= Degree C Thermodynamic
Trioxide	× 1.77	= Sodium Sulfate
Sulfur Dioxide	+ Water	= Sulfurous Acid
Sulfuric Acid + Barium Peroxide	= Hydrogen Peroxide	+ Barium Sulfate
+ Sodium Nitrate	= Sodium Sulfate	+ Nitric Acid
+ Sodium Chloride	= Sodium Sulfate	+ Hydrochloric Acid
Sulfurous Acid	+ Oxygen	= Sulfuric Acid
Sun	× 1.193	= Inch US
Sun Radiation Density: cc	× .4/o43	= Erg
Sunlight: Contains	= 3 to 5	= Percent Ultraviolet Radiation
Standard Hour	× 3.0	= Carbon Arc Hour (Modified)
	× 31.08	= mg Oxalic Acid/Hour
Sprocket: Chain Drive: Inch Pitch Diam × rpm	× .5	= In-Lb Transmitted Torque
In-Lb Transmitted Torque	× rpm × .4/o158	= HP
Tablespoon	× .0625	= Cup
	× 3.999	= Fluid Drams
	× .499875	= Ounce Fluid US
	× 3.	= Teaspoon
Tael	× 575.64	= Grain
Talent:	× 60.	= Minas(80 or 50 Shekel Each)
	× 3000 or 3600	= Shekel
Talent: Attic	× 26.26	= Kilogram
	× 57.85	= Pound
Gold	× 12633.3	= Grain (50 Shekel)
	× 15159.96	= Grain (60 Shekel)
Ton	× .25	= Acre
Tank: Actual Stress psi	× Safety Factor	= Ultimate Strength psi
Base Area	× Height	= Volume
Base Perimeter	× Height	= Lateral Area
Bolted or Welded: Unit Stress (psi)	× 2t"/d"	= psi Internal Pressure
Bbl (42)/Inch × Inches Production	× Hour	= Barrel (42)/Day
Circumference Squared Feet	× .0141648	= Barrel (42)/Foot Depth
	× .0001475	= Barrel (42)/.125" Depth
	× .0002951	= Barrel (42)/.25" Depth

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T — CONVERSION FACTORS

Tank: Circumference Squared Feet	× .0011804	= Barrel (42)/Inch Depth
Circumference Squared × Height	× .07957747	= Volume
Cold Roll Steel: Cubical Expansion	= .19	= Parts/Million/°F
Linear Expansion	= 6.2	= Parts/Million/°F
Diameter Foot × Foot High	× 3.1416	= Sqft Lateral Area
	× 452.389248	= Sqin Lateral Area
× Inch High	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
Diameter × Height	× 3.1416	= Lateral Area
Diameter Inch × Foot High	× .2617989	= Sqft Lateral Area
	× 37.69908	= Sqin Lateral Area
× Inch High	× .021816	= Sqft Lateral Area
	× 3.1416	= Sqin Lateral Area
Diameter Squared Foot	× .7854	= Square Feet Base Area
Diameter Squared Foot × Foot High	× .139885	= Barrel (42)
	× .785398	= Cubic Foot
	× 1357.168	= Cubic Inch
	× 5.87517	= Gallon US
Diameter Squared Foot × Inch High	× .01165	= Barrel (42)
	× .0654415	= Cubic Foot
	× 113.09734	= Cubic Inch
	× .489597	= Gallon US
Diameter Squared × Height	× .7854	= Volume
Diameter Squared Inch × Foot High	× .0009714234	= Barrel(42)
	× .00545412	= Cubic Foot
	× 9.4247784	= Cubic Inch
	× .0408	= Gallon US
Diameter Squared Inch × Inch High	× .4/o8095195	= Barrel (42)
	× .00045451	= Cubic Foot
	× .785398	= Cubic Inch
	× .0034	= Gallon US
Tank: Inch Wall Thickness	× 30000.	= psi Allowable Press × Inch OD
Inside Radius × Height	× 6.28318	= Area Internal
Liquid Cubical Exp Coeff (-) Tank Cubical Exp Coeff		= Net Expansion Coefficient
(-) Tank Cubical Exp Coeff		= Parts/Million/°F
Oil Storage Steel 37500 Bbl:	= 38381.	= Barrel (42)/Volume
	= 215485.	= Cuft(95.5 × 30.083')
	= 7163.	= Square Feet Base
55000 Bbl:	= 55864.	= Barrel (42)/Volume
	= 313652.	= Cuft(114.583 × 30.417')
	= 10312.	= Square Feet Base
Oil: 55000: Spaced 500' Centers	= 5.74	= Acres Occupied/Tank
Outside Radius × Height	× 6.28318	= Area External
Parts/Million/°F × °F Temp Drop	× Gallons	= Net Gallons Expanded
Radius × Height	× 6.28318	= Lateral Area
Radius Squared × Height	× 3.1416	= Volume
Tentalum: (Ta): #73:180.88 AW: SpHt .036: gm/cc	16.6:	
Tar: 68F: Cubic Foot	× 62 to 68	= Pound
Tchetvert	× 209.9	= Liter
	× 2.	= Osmini
	× 4.	= Poyok
	× 8.	= Tchetverik
Teaspoon	× .0208	= Cup
	× 1.333	= Dram Fluid
	× 4.9	= Milliliter
	× 45 to 60	= Minim (Drops)
	× .333	= Tablespoon
Technetium: (Tc): #43.99. AW		
Tees: 1 to 4": Air Flow Resistance: Inch Diam	× 3.7 - 1.7	= Equiv Feet Straight Pipe
5 to 8": Air Flow Resistance: Ft Diam	× 4.	= Equiv Feet Straight Pipe
Water Flow Resistance: Inch Diam	= 5.	= Equiv Feet Straight Pipe
Feet Diam	= 60.	= Equiv Feet Straight Pipe
Television:	= 300.	= Watt (Avg Use)
Tellurium: (Te): #52:127.61 AW: SpHt .047: gm/cc	6.24:	
Temperature: Centigrade Degree	+ 273.16	= Centigrade Degree Absolute
	+ 273.16	= Kelvin Degree

Temperature: Centigrade Degree	× .8	= Reaumur Degree
Centigrade Degree × 1.8	+ 32	= Fahrenheit Degree
Centigrade Degree Absolute	- 273.16	= Centigrade Degree
	× 1.0	= Kelvin Degree
Fahrenheit Degree	+ 459.69	= Fahrenheit Degree Absolute
	× 8.547	= Kelvin Degree
Absolute	× 1.0	= Rankine Degree
Minus 32	× .555	= Centigrade Degree
	× .444	= Reaumur Degree
Minus 32 × .555	+ 273.16	= Kelvin Degree
Temperature: Kelvin Degree	- 273.16	= Centigrade Degree
	× 1.0	= Centigrade Degree Absolute
	× .117	= Fahrenheit Degree
Minus 273.16	× .8	= Reaumur Degree
Minus 273.16 × 1.8	+ 32	= Fahrenheit Degree
Temperature: Drop × Specific Heat	× Mass	= Heat Lost
Normal Household:	= 65°F	= Norm
Outside: Avg of Daily High + Low	- Norm	= Degree-Day
Rise × Specific Heat	× Mass	= Heat Gained
Temperature: Rankine Degree	× 1.0	= Fahrenheit Degree Absolute
Temperature: Reaumur Degree	× 1.25	= Centigrade Degree
× 2.25	+ 32	= Fahrenheit Degree
× 1.25	+ 273.16	= Kelvin Degree
Tensile Strength: psi × sqin Cross-Section Area		= Pound: Max Test Load
Terbium: (Tb): #65:159.2 AW:		
Terra-Cotta: Backing with Brick	= .8	= Bricks/Cubic Foot
	= .04	= Laborer-Hr/Cubic Foot
Handling: Car to Truck	= .03	= Man-Hr/Cubic Foot
Truck to Pile	= .03	= Man-Hr/Cubic Foot
Wheeling	= .03	= Man-Hr/Cuft/Foot Wheeled
Hauling Calculation	= 28.	= Cubic Feet/Ton
	= 75.	= Pound/Cubic Foot
New Work: Wash or Point	= .0075	= Labor-Hr/Square Foot
	= .015	= Mason-Hr/Square Foot
Old Work: Clean or Point	= .01	= Labor-Hr/Square Foot
	= .02	= Mason-Hr/Square Foot
Setting: Cubic Feet	× .0016	= Cubic Yard of Mortar
	× .1	= Laborer-Hr
Setting of Backing: Cuft	× .08	= Mason-Hr
Sort and Carry to Scaffold	= .08	= Man-Hr/Cubic Foot
Tetrahedron: Side Cubed	× .1179	= Volume
Side Squared	× 1.7321	= Total Area
Thallium: (Tl): #81:204.39 AW:		
Therm	× 1(5/o).	= Btu
	× 1.	= French Thermal Unit
	× 1.	= Gramme-Degree
Thermal Capacity of Body	× 1.0	= gm-cal/°C
	× 1.0	= Erg/°C
	× 1.0	= Joule/°C
Thermal Capacity of Substance	× 1.0	= gm-cal/sec/°C/gm
	× 1.0	= Erg/sec/°C/gm
	× 1.0	= Watt/°C/kg
Thermal Conductivity	× 1.0	= gm-cal/sec/°C/cm
	× 1.0	= Erg/sec/°C/cm
	× 1.0	= Watt/°C/m
Thermal Ohm	× 1.0	= Joule
Thermal Ohm/Sec/Sqcm/cm/°C Diff.	× .2389	= gm-cal/Sec/Sqcm/cm/°C Diff.
Thermal Transmittance Unit	× 1.0	= Btu/Sec/°F/sqin
	× 1.0	= gm-cal/sec/°C/sqcm
	× 1.0	= Erg/sec/°C/sqcm
	× 1.0	= Surface Coeff of Transfer Unit
	× 1.0	= Watt/°C/sqm
Thermodynamics	= 4.	= Dimension Systems

Thermodynamious = 3 Fundamental Mechanics Dimensions + Temperature - Heat Quantity - Thermal Capacity, Conductivity - Transmittance - Entropy

Thermometer: Alcohol in Glass = -100 to 250= Fahrenheit Degree Range

T CONVERSION FACTORS

Thermometer: Bimetallic	= -40 to 800	= Fahrenheit Degree Range
Mercury in Glass	= -40 to 950	= Fahrenheit Degree Range
Transmitting-Expansion: Mercury	= -40 to 1000	= Fahrenheit Degree Range
Nitrogen	= -200 to 800	= Fahrenheit Degree Range
Thorium: (Th): #90.232.12 AW:		
Three-Gram (Bennett System)	= 1000.	= Gram
Thulium: (Tm): #69:169.4 AW:		
Tierce	× 42.	= Gallon Liquid US
Tile: Bonding: Square Feet of 16" Wall	× .7	= Number Tiles
Corner: Linear Feet of Corner	× 2.0	= Number Tiles
Hollow: Bock:	t"	= Inch Tile Thickness
Under 4": Partition:	= .03t"	= Cuyd Mortar/Square
Column Covering	= .02t" + .06	= Cuyd Mortar/Square
Floor Construction	= .03t"	= Cuyd Mortar/Square
Furring	= .02t" + .03	= Cuyd Mortar/Square
Wall Construction:	= .03t" + .08	= Cuyd Mortar/Square
Interlocking Wall: 8" Backing	= .25	= Cuyd Mortar/Square
Inch Wall × Square	× .035 + .03	= Cuyd Mortar
	× 1.15 - .2	= Mason-Hr
	× 25. + 10.	= Number Tile Needed
Number Tile	× 17.	= Pound Weight
Ton	× 137.	= Number Tiles
Tile: Lay: Hollow: 8×8×t: Square Feet	× .085	= Mason-Hr(Flat Arch)
	× 1.8	= Number Tile (Furring)
Square	× .625t" + 1.25	= Mason-Hr (Load Bearing Wall Tile)
	× 1.25t" + 1.25	= Mason-Hr (Partition)
Hollow: 12×12×t: Square	× .5t" + 1.	= Mason-Hr(Flat Arch)
	× t" + 1.	= Mason-Hr(Furring)
	× .35t" + 4.	= Mason-Hr(Load Bearing Wall Tile)
	× .3t" + 3.4	= Mason-Hr (Partition)
Square Feet	× .003t" + .034	= Mason-Hr (Partition)
Hollow: Square	× .5t" + 1.	= Mason-Hr (Round Column)
	× .5t" + 1.5	= Mason-Hr (Square Column)
Linear Feet	× .015	= Mason-Hr (Shoe-Soffit)
Tilework: Hoisting: Number of Stories	× .045t" - .04	= Elevator-Hour/Square
Stock Pile to Work	= .05t" + 1.6	= Laborer-Hr(0-40' Carry)
	= .1t" + 1.9	= Laborer-Hr (40-80' Carry)
	= .145t" + 2.2	= Laborer-Hr (80-120' Carry)
Timber: Dead Load: Safety Factor	× 7	= Based on Ultimate Stress
Shock: Safety Factor	× 20	= Based on Ultimate Stress
Time	× Acceleration	= Final Velocity
	× Avg Velocity	= Distance
	× Power	= Force
	× Velocity	= Distance
Time Squared × Acceleration	× .5	= Distance
Time × Principal	× Rate	= Interest
× Principal × Rate	+ Principal	= Amount
Tin: (Sn): #50:118.70 AW: SpHt.054: gm/cc 7.30:		
Titanium: (Ti):#22:47.90 AW: SpHt .125: gm/cc	4.54:	
Toaster-Automatic:	= 1100.	= Watt Avg Use
Toise	× 1.95	= Meter
	× 6.	= Paris Feet
Toluene Gas(60F-30"Hg)	= 3.180	= Specific Gravity (Air=1)
Cubic Foot	× 4414.	= Btu Gross Combustion Heat
	× 43.0	= Cuft Air for Combustion
	× .2435	= Pound
Cuft Mixed Air-Gas	× 100.22	= Btu Gross Combustion Heat
Flame Temperature	= 3745.	= Degree F Maximum
Pound	× 18245.	= Btu Gross Combustion Heat
	× 4.11	= Cubic Feet
	× 13.535	= Pound Air for Combustion
Ton Assay	× 29166.72	= Milligram
Ton British Shipping	× 32.72	= Bushel British
	× 33.75	= Bushel US
	× 42.	= Cubic Feet
	× .952381	= Ton Shipping US

Tonde	× 1.36	= Acre
Ton Displacement	× 1.0	= Displacement Ton
	× 35.	= Cubic Foot
	× 1.0	= Long Ton Weight of Sea Water
Ton Long	× 25.	= Cubic Feet Dry Sand
	× 20.	= CWT Long
	× 22.4	= CWT Short
	× 1016047.	= Gram
	× 15680000.	= Grain
	× 1016.04704	= Kilogram
	× 32667.	= Ounce Apoth-Troy
	× 35840.	= Ounce Avoir
	× 2722.22	= Pound Apoth-Troy
	× 2240.	= Pound Avoir
	× 1.0	= Ton Gross
	× 1.0	= Ton Gross Avoir
	× 1.0	= Ton Long Avoir
	× 1.01605	= Ton Metric
	× 1.12	= Ton Net
	× 1.12	= Ton Short
Ton Long/Cubic Yard	× 1.329	= Gram/Cubic Centimeter
	× 1329.	= Kilogram/Cubic Meter
	× .0401	= Pound/Cubic Inch
	× 82.96	= Pound/Cubic Foot
	× 2240.	= Pound/Cubic Yard
	× 11.09	= Pound/Gallon Liquid US
	× 1.329	= Ton Metric/Cubic Meter
	× 1.12	= Ton Short/Cubic Yard
Ton Long-Mile	× 1016.	= Kilogram-Mile
	× 2240.	= Pound-Mile
	× 1.1016	= Ton Metric-Mile
	× 1.12	= Ton Short-Mile
Ton Long-Mile Crushed Rock	× .77 to .79	= Cubic Yard-Mile
Ton Long-Mile Sand	× .74 to .91	= Cubic Yard-Mile
Ton Long/Mile	× 247.475	= Grain/Inch
	× 6.31342	= Gram/Centimeter
	× .42424	= Pound/Foot
	× .03535	= Pound/Inch
	× 1.272727	= Pound/Yard
	× .631342	= Ton Metric/Kilometer
Ton Long/Square Foot	× .3/o109366	= Kilogram/Square Meter
Ton Long/Square Inch	× 1.57494	= Kilogram/Square Millimeter
Ton Metric	× 7.454	= Barrel (42) Oil 36 API
	× 6.297	= Barrel (31.5) Water 60F
	× 15432356	= Grain
	× 1(6/o).	= Gram
	× 19.6841	= Hundredweight Long
	× 1000.	= Kilogram
	× 32151.	= Ounce Apoth-Troy
	× 35274.	= Ounce Avoir
	× 2679.23	= Pound Apoth-Troy
	× 2204.62125	= Pound Avoir
	× .98420640	= Ton Long
	× 1.0	= Tonneau
	× 1.1023112	= Ton Short
Ton Metric/Kilometer	× 391.983	= Grain/Inch
	× 10.	= Gram/Centimeter
	× .67197	= Pound/Foot
	× .05600	= Pound/Inch
	× 2.01591	= Pound/Yard
	× .4/o25	= Ton Long/Inch
	× 1.583597	= Ton Long/Mile
	× .4/o28	= Ton Short/Inch
	× 1.77400	= Ton Short/Mile
Ton Metric/Year	× 114.07955	= Gram/Hour
	× 2.73791	= Kilogram/Day

T — CONVERSION FACTORS

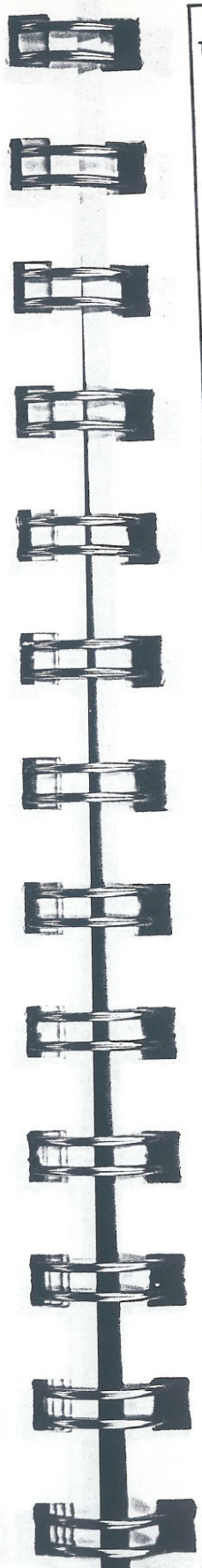
Ton Metric/Year	× 32.15072	= Kilo-Ounce Troy/Year
	× 31.68877	= Milligram/Second
	× 4.02404	= Ounce Avoir/Hour
	× 88.02578	= Ounce Troy/Day
	× 3.66774	= Ounce Troy/Hour
	× 6.03606	= Pound Avoir/Day
	× .25150	= Pound Avoir/Hour
	× 1.10231	= Ton Short Avoir/Year
Tonne	× 22.046223	= Cwt Short
	× 257205.94	= Dram Apoth
	× 564383.32	= Dram Avoir
	× 15432356.	= Grain
	× 1(6/o).	= Gram
	× 1000.	= Kilogram
	× 1(9/o).	= Milligram
	× 32150.742	= Ounce Apoth-Troy
	× 35273.96	= Ounce Avoir
	× 643014.85	= Pennyweight
	× 2679.2285	= Pound Apoth-Troy
	× 2204.622341	= Pound Avoir
	× 771617.8	= Scruple
	× .9842064	= Ton Long
	× 1.0	= Ton Metric
	× 1.1023112	= Ton Short
Ton Refrigeration:	× 200.	= Btu/Minute
	× 1.0	= Refrigeration Short Ton
Commercial:	× 288000.	= Btu/Day
	× 12000.	= Btu/Hour
	× 144.	= Btu Loss/Pound Ice/Hour
	× 200.	= Btu/Minute
	× 83.33	= Pound Ice Lost/Hour
Standard:	× 288000.	= Btu
Ton Refrigeration/Day	× 200.	= Btu/Minute
Ton Register	× 100.	= Cubic Feet
	× 1.0	= Ton Shipping US
Ton Shipping US	× 31.16	= Bushel British
	× 32.143	= Bushel US
	× 40.	= Cubic Feet
	× 2.8317	= Cubic Meter
	× 1.0	= Freight Ton
	× 1.0	= Measurement Ton
	× 1.0	= Register Ton
	× 1.050	= Ton Shipping British
Ton Short	× 40.	= Cubic Feet (Storage)
	× 32.07	= Cubic Feet Water 62F
	× 889644000.	= Dyne
	× 224.	= Gallon Liquid British
	× 268.8	= Gallon Liquid US
	× 8064.	= Gill
	× 14(6/o).	= Grain
	× 907184.	= Gram
	× 4.	= Hogshead
	× 17.857	= Hundredweight Long
	× 20.	= Hundredweight Short
	× 907.18486	= Kilogram
	× 1000.	= Liter
	× 29166.72	= Ounce Apoth-Troy Assay
	× 32000.	= Ounce Avoir
	× 2.	= Pipe
	× 2430.56	= Pound Apoth-Troy
	× 2000.	= Pound Avoir
	× 1008.	= Quart Liquid US
	× .8928571	= Ton Gross
	× .8928571	= Ton Long
	× .90718486	= Ton Metric
	× 1.0	= Ton Net

Ton Short	× 1.0	= Ton Net Avoir
	× 1.0	= Ton Short Avoir
Ton Short/Cubic Foot	× 2000.	= Pound/Cubic Foot
	× 1.157	= Pound/Cubic Inch
	× 267.	= Pound/Gallon Liquid US
	× 27.	= Ton Short/Cubic Yard
Ton Short/Cubic Yard	× 1.187	= Gram/Cubic Centimeter
	× 1187.	= Kilogram/Cubic Meter
	× 74.07	= Pound/Cubic Foot
	× .04287	= Pound/Cubic Inch
	× 9.902	= Pound/Gallon Liquid US
	× .8929	= Ton Long/Cubic Yard
	× 1.187	= Ton Metric/Cubic Meter
	× .037	= Ton Short/Cubic Foot
Ton Short/Mile	× 220.960	= Grain/Inch
	× 5.63698	= Gram/Centimeter
	× .563698	= Kilogram/Meter
	× .37879	= Pound/Foot
	× .03157	= Pound/Inch
	× 1.13636	= Pound/Yard
	× .89286	= Ton Long/Mile
Ton Short/Square Foot	× .94502	= Atmosphere: 32F-32.2 fpss
	× .9576	= Bar
	× 957600.	= Barye 32F
	× 71.826	= Centimeter Hg: 32F-32.2 fpss
	× 957600.	= Dyne/Sq Centimeter
	× 32.07	= Feet Water: 59F-32.2 fpss
	× 28.28	= Inch Mercury 32F-32.2 fpss
	× 384.8	= Inch Water: 59F-32.2 fpss
	× .97648	= Kilogram/Square Centimeter
	× 9764.8	= Kilogram/Square Meter
	× .9576	= Megabarye
	× .9576	= Megadyne/Sq Centimeter
	× .7182	= Meter Mercury: 32F-32.2 fpss
	× 9.774	= Meter Water: 59F-32.2 fpss
	× 95760.	= Newton/Sq Meter
	× 2000.	= Pound/Square Foot
	× 13.8889	= Pound/Square Inch
Ton Short/Year	× 103.49124	= Gram/Hour
	× 2.48379	= Kilogram/Day
	× 28.74767	= Milligram/Second
	× 3.65051	= Ounce Avoir/Hour
	× 5.47582	= Pound Avoir/Day
	× .22816	= Pound Avoir/Hour
	× .90719	= Ton Metric/Year
Topeka Kansas Heating Load	= 5280.	= Degree-Day
Torque: Foot-Pound × cuin Displacement	× .00019	= Brake HP
Foot-Pound × rpm	× .000190399	= Brake Horsepower
	= 5250.	× Horsepower
Inch-Pound × rpm	× .4/o158665	= Brake Horsepower
	= 63025.	× Horsepower
	× 2.4	= In-Lb Unsupported Shaft
	× 1.5	= Inch-Pound Starting
Physical Unit		= Poundal-Foot
Technical Unit		= Pound-Force-Foot
Torus: Thickness × Mean Radius	× 39.4784	= Convex Surface Area
Thickness Squared × Mean Radius	× 19.7392	= Volume
Township	× 23040.	= Acre
	× 93240.	= Hectare
	× 144.	= Quarter-Section
	× 36.	= Section
	× 93.240	= Square Kilometer
	× 36.	= Square Mile
Transite: Specific Heat	= .20	= Btu/Pound/°F
Trapezium: Divided into Two Triangles	= .5(B+b)(A+a)	= Area

Make Ends Triangles, Center Section Trapezoid. Add Areas for Total Area

CONVERSION FACTORS

Trapezium: Sum of Triangles Altitudes	× .5(B+b)	= Area	
Sum of Triangles Bases	× .5(A+a)	= Area	
Quadrilateral with no Parallel Sides.			
Trapezoid: Base + Side × Height	× .5	= Area	
Large Plus Small Base × Height	× .5	= Area	
Quadrilateral with two Bases Parallel.			
Trap Rock: Crushed: Cubic Foot	× 97 to 107	= Pound (Spg 3.0)	
Triangle: Equilateral: Height	× 1.15466	= Side	
Side	× .86605	= Altitude	
Side Squared	× .43301	= Area	
General Formula: Sq Root of s(s-a)(s-b)(a-c)		= Area (s = a + b + c)	
Right: Height × Base	× .5	= Area	
Right: Height Squared	+ Base Squared	= Diagonal Squared	
Sin A × Diagonal × Base	× .5	= Area	
Trigonometric Functions: Sin A	= a/c	= Opposite Side/Hypotenuse	
Cos A	= b/c	= Adjacent Side/Hypotenuse	
Tan A	= a/b	= Opposite Side/Adjacent Side	
Csc A	= c/a	= 1/Sin A	
Sec A	= c/b	= 1/Cos A	
Cot A	= b/a	= 1/Tan A	
Sin A/a	= Sin B/b	= Sin C/c	
Trillion	× .001	= Billion	
Trisodium Phosphate + Calcium Carbonate	= Calcium Phosphate + Sodium Carbonate		
+ Calcium Sulfate	= Calcium Phosphate + Sodium Sulfate		
Tsubo	× 35.58	= Square Foot US	
Tsun	× 1.26	= Inch US	
Tubing: Area Sqin × Feet Filled	= 808.5	= Barrel (42) (See Casing)	
× Feet Long	× .001237	= Barrel (42)	
×100 Ft Long	× .1237	= Barrel (42)	
Base Area	× Height	= Volume (See Pipe)	
Base Perimeter	× Height	= Lateral Area	
Circumference Squared × Length	× .07957747	= Volume (See Cylinder)	
Copper: Inch Wall Thick × psi Tensile	× .1666	= Inch Radius × psi Max Wk Press	
Tubing: Diameter Foot × Foot Long	× 3.1416	= Sqft Lateral Area	
	× 452.389248	= Sqin Lateral Area	
Diameter Foot × Inch Long	× .2617989	= Sqft Lateral Area	
	× 37.69908	= Sqin Lateral Area	
Diameter × Length	× 3.1416	= Lateral Area	
Diameter Inch × Foot Long	× .2617989	= Sqft Lateral Area	
	× 37.69908	= Sqin Lateral Area	
Diameter Inch × Inch Long	× .021816	= Sqft Lateral Area	
	× 3.1416	= Sqin Lateral Area	
Diameter Squared Foot × Foot Long	× .139885	= Barrel (42)	
	× .785398	= Cubic Foot	
	× 1357.168	= Cubic Inch	
	× 5.87517	= Gallon US	
	× .74613	= Sack Cement	
Diameter Squared Foot × Inch Long	× .01165	= Barrel (42)	
	× .0654415	= Cubic Foot	
	× 113.09734	= Cubic Inch	
	× .489597	= Gallon US	
	× .06206	= Sack Cement	
Tubing: Diameter Squared × Length	× .7854	= Cubic Volume	
Diameter Squared Inch × Feet Filled	= 1029.4	× Barrel (42)	
Diameter Squared Inch × Foot Long	×.0009714234	= Barrel (42)	
× 100 Foot	× .0971428	= Barrel (42)	
× 1000 Foot	× .971428	= Barrel (42)	
× Foot Long	× .00545412	= Cubic Foot	
	× 9.4247784	= Cubic Inch	
	× .0408	= Gallon US	
	× .2652	= Pound Crude Oil Weight	
	× .34	= Pound Water Weight	
	× .005177	= Sack Cement	
Diam Squared Inch × Ft Fill-up × Hour	× .023312	= Bbl(42)/Day Est Production	
Diameter Squared Inch × Ft/Min	× .00545	= Cubic Feet/Second	
	× .0408	= Gallon Water/Minute	



Tubing: Diameter Squared Inch × Ft/Sec	× .327	= Cubic Feet/Minute
	× 2.44798	= Gallon Water/Minute
Diameter Squared Inch × Inch Long	× .4/o8095195	= Barrel (42)
	× .00045451	= Cubic Foot
	× .785398	= Cubic Inch
	× .0034	= Gallon US
	× .000431	= Sack Cement
Tubing: Ft Head Friction Loss × Diam Foot	× 3220.20	= fps Squared × Ft Long
× Diam Inch	× 268.35	= fps Squared × Ft Long
Feet/Second Squared × Foot Long	× .0003105	= Ft Diam × Ft Hd Frict Loss
	× .003726	= In Diam × Ft Hd Frict Loss
Inch ID Squared × Inch Thick	× .8	= Section Modulus
Inside Radius × Length	× 6.28318	= Area Internal
OD Minus Thickness × Thickness	× 10.68	= Pound Weight/Foot
OD Minus Thickness × Thickness	× 28.2	= Ton Wgt/Mile
OD Minus Thickness × Thick × Length	× 3.1416	= Cubic Inch of Metal
Outside Diameter × Thickness	× 3.1416	= Sqin Metal Area: Section
Outside Radius × Length	× 6.28318	= Area External
Radius × Length	× 6.28318	= Lateral Area
Radius Squared × Length	× 3.1416	= Volume
Rectangle: (A + B - 2t") × Inch Thick	× 6.8	= Pound Wgt/Foot
Regular: Number Joint × Inch Diam	× .45 + .9	= Inch Make-up Loss
Square: (Inch Diam Minus Inch Thick)	× 13.6 × Inch Thick	= Pound Wgt/Foot
Upset End Smls: Joint × Inch Diam	× .35 + 1.4	= Inch Make-up Loss
Tulsa Heating Load	= 3500.	= Degree-Day
Tumbler	× 8.	= Fluid Ounce US
Tun	× 252.	= Gallon Liquid US
	× 953.8956	= Liter
	× 2.	= Pipe
	× 3.	= Puncheon
Tungsten: (W): #74:183.92 AW: SpHt .032: gm/cc 19.3:		
Linear Expansion: Inch	× 2.2	= Micro-Inch/Degree F
Two-Gram (Bennett System)	= 100.	= Gram
Typp (Cotton-Woolen)	× 1000.	= Yard/Pound Avoir
U_{235} Fissions/Second	= .10/o321	= Watt
Fissioned: Gram	× 23000.	= Kw-hr(Heat Generated)
Ultimate Oil Recovery: Flow and Pump	= 20-40%	= Of Original Sand Volume
Ultra-Violet	= 4000.	= Angstrom
	= 15.7	= Micro-Inch
Unit	× Number	= Quantity
U	× N	= Q
UN	= un	= Q
U	= unN	= Unit Relation
UN = N(Nn × u)	= u(N × Nn)	= Q
U/Y	× N	= u/y(=1/1)
(a/b)/(x/y)	= (a/b)(y/x)	= ay/bx
(a/b)/x	= (a/b)(1/x)	= a/bx
(a/b)+(x/y)	= (ay/by)+(bx/by)	= (ay + bx)/by
	= (a/b)(x/y)	= ax/by
(a/b)x	= (a/b)(x/1)	= ax/b
	a:b::c:d	= (a/b = c/d)
	(a/b = c/d)	= (ad = bc)
	(a/b = c/d)	= (a + b)/b = (c + d)/d
	(a/b = c/d)	= (a - b)/b = (c - d)/d
(a/b = c/d)	= (a + b)/(a - b)	= (c + d)/(c - d)
Unit Charge/Second	× .15/o16	= Microamp
Unodecagon: Short Radius Squared	× 3.22993	= Area
Width of Side Squared	× 9.365640	= Area
Uranium: (U): #92:233.07 AW: SpHt .028: gm/cc 18.7:		
(Geiger): Metric Ton of Ore × U	× 25.	= Gram Uranium (See Geiger)
	× .875	= Ounce Uranium
US Dry Measure	× .969	= Dry Measure British
USPX1 Unit (A and D)	× 1.0	= International Unit
	× 2.0	= Sherman Unit
USPX1 Unit C	× .05	= Milligram

U

U — CONVERSION FACTORS

USPX1 Unit C	× 1.0	= International Unit
	× .1	= Sherman Unit
U-Tube: psia Baro Press + #/cuft Liq Den	× Tubes Inch Diff	× .0005787 = psia

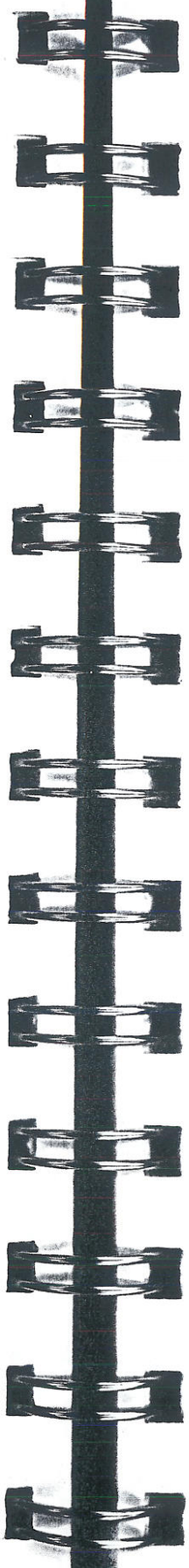
V

Vacuum Cleaner	= 125.	= Watt (Avg Use)
Vacuum Pressure	- Atmos Press	= Absolute Pressure
Valence (See end of "V" Section)	See Individual Element or Compound Name	
Valve: Angle: Water Flow Resistance: d"	× 3.33	= Equiv Feet Straight Pipe
D'	× 40.	= Equiv Feet Straight Pipe
Gate: Water Flow Resistance: d"	× .9	= Equiv Feet Straight Pipe
D'	× 11.	= Equiv Feet Straight Pipe
Globe: Water Flow Resistance: d"	× 7.5	= Equiv Feet Straight Pipe
D'	× 90.	= Equiv Feet Straight Pipe
1-3": Air Flow Resistance: d"	× 5.5 - 3.5	= Equiv Feet Straight Pipe
4-8": Air Flow Resistance: d"	× 8.25 - 13.	= Equiv Feet Straight Pipe
Vanadium: (V): #23:50.95 AW: SpHt .120: gm/cc 6.0:		
Var	× 1.0	= Reactive Power Unit
	× 1.0	= Reactive Volt-Ampere
Vara	× 2.7777	= Feet
	× 33.3333	= Inch
	× .9259	= Yard
Vedro	× 750.	= Cubic Inch
	× 2.7	= Gallon Liquid British
	× 3.247	= Gallon Liquid US
	× 10.	= Krushky (stoof)
	× 12.299	= Liter
	× 25.976	= Pint
	× 12.988	= Quart
Velocity	× Mass	= Momentum
Velocity: Square Foot of Feet Height	× 8.02	= Falling Feet/Second
Ventilation and Cooling	= 1.0	= Change of Air/Minute
Verst	× 1066.0	= Meter
	× 500.	= Saschen
Violet	= 4240.	= Angstrom
	= 16.7	= Micro-Inch
Viscosity Absolute	= Centipoise	= Dyne-Sec/Sqcm
	= Poise	= Dyne-Sec/Sqcm
	× cm-sec	= Gram
	= Reyn	= Lb-Sec/Sqin
	× sec-ft	= Pound
Viscosity Kinematic	× Density	= Centipoise Abs Viscosity
	× Density	= Reyn Abc Viscosity
Viscosity Kinematic = Centipoise/Density	= .22 × Sec	- (180/Sec) = Centistoke
Centistoke	× Density	= Centipoise Abs Viscosity
× Density	= Centistoke	= Absolute Viscosity Centipoise
= Reyn/Density lb-sec sqd/Inch 4th Power		= Sqin/Second
Sqft/Sec × Density Lb-Mass = Abs Viscosity Pound-Force-Sec/Sqft		
Sqft/Sec × Density Lb-Force = Abs Viscosity Pound-Force-Sec/Sqft		
Viscosity: (Seconds Efflux × .00226)-(1.95/Second Efflux)		= Saybolt Universal (Sec = -100)
(Seconds Efflux × .00220)-(1.35/Second Efflux)		= Saybolt Universal (Sec = +100)
(Seconds Efflux × .0224)-(1.84/Second Efflux)		= Saybolt Furol (Sec = -40)
(Seconds Efflux × .0216)-(.60/Second Efflux)		= Saybolt Furol (Sec = +40)
(Seconds Efflux × .00260)-(1.79/Second Efflux)		= Redwood #1 Second (Sec =-100)
(Seconds Efflux × .00247)-(.40/Second Efflux)		= Redwood #1 Second(Sec=+100)
(Seconds Efflux × .027)-(20/Second Efflux)		= Redwood Admiralty
(Seconds Efflux × .00147)-(3.74/Second Efflux)		= Engler Degree
(Engler Degree × .09261)-(.0729/Engler Degree)		= Centistoke
(Redwood Second × .26)-(172/Redwood Second)		= Centistoke
(Saybolt Second × .220)-(180/Saybolt Second)		= Centistoke (Sec = -50)
(Saybolt Second × .220)-(195/Saybolt Second)		= Centistoke (Sec = 50-100)
(Saybolt Second × .220)-(135/Saybolt Second)		= Centistoke (Sec = +100)
Visible Spectrum	= 400 to 800	= Millimicron
Volt (E)(EMF)	× 1(8/o).	= Abvolt
	× 1.	= Electrical Pressure Unit
	× 1(8/o).	= Electromagnetic Unit
	× 1.0	= Electromotive Force Unit

Volt (E)(EMF)	× .0033358	= Electrostatic Unit
	× 1(8/o).	= Line/Second
	× 1(6/o).	= Microvolt
	× 1000.	= Millivolt
	× 1.0	= Potential Difference Unit
	× .0033358	= Statvolt
	× 1.0	= Volt Absolute
	× .99966	= Volt International
	× Ampere	= Volt-Ampere
	× Ampere	= Watt
	× Ampere-Second	= Joule
	× Ampere-Second	= Watt-Second
	× Coulomb	= Joule
	× Coulomb	= Watt-Second
	× Farad	= Coulomb
	× Mho Admittance	= Ampere
Voltage Reaction × Amp-Hr/Gram	× 1.3411	= Horsepower-Hour/Kilogram
× Amp-Hr/Gram	× .60786	= Horsepower-Hour/Pound
× Kg/HP-Hr	= .7465	× Gram/Ampere-Hour
× Kg/HP-Year	= 6543.8	× Gram/Ampere-Hour
× Lb/HP-Hr	= 1.6457	× Gram/Ampere-Hour
× Lb/HP-Year	= 14426.5	× Gram/Ampere-Hour
Volt × Ampere	× Hour	= Watt-Hour
	× Power Factor	= Watt
	× Second	= Joule
	× Second	= Watt-Second
× Ampere × Hour	× .001	= Kilowatt-Hour
	× .2389	= Gram-Calorie/Hour
× Ampere × Minute	× .2389	= Gram-Calorie/Minute
× Ampere × Second	× .2389	= Gram-Calorie/Second
× Ampere × Time	× 1.0	= Heat
Volt-Ampere	× 1(8/o).	= Apparent Power Unit
Volt/Centimeter	× 1.	= Abvolt/Centimeter
	× .001	= Field Intensity Unit
	× 1(8/o).	= Kilovolt/Centimeter
	× 1(5/o).	= Microvolt/Centimeter
	× .003335	= Millivolt/Meter
	× 2.54	= Statvolt/Centimeter
	× 100.	= Volt/Inch
	× .00254	= Volt/Meter
Volt DC × Ampere	× .001	= Volt/Mil
× Ampere × % Efficiency	× .00134	= Kilowatt
Volt Electron	× 1602(9/o).	= Horsepower Elec.
Volt/Inch	× 3937(4/o).	= Erg
	× .0003937	= Abvolt/Centimeter
	× 3937(4/o).	= Kilovolt/Centimeter
	× 39370.	= Microvolt/Meter
	× .001313	= Millivolt/Meter
	× .3937	= Statvolt/Centimeter
	× 39.37	= Volt/Centimeter
	× .001	= Volt/Meter
Volt International	× 1.00034	= Volt/Inch
Volt/Meter	× 1(6/o).	= Volt Absolute
	× .4/o1	= Abvolt/Centimeter
	× 1(6/o).	= Kilovolt/Centimeter
	× 1000.	= Microvolt/Meter
	× .4/o3335	= Millivolt/Meter
	× .01	= Statvolt/Centimeter
	× .0254	= Volt/Centimeter
	× .4/o254	= Volt/Inch
Volt/Mil	× 3937(7/o).	= Volt/Mil
	× .3937	= Abvolt/Centimeter
	× 3937(7/o).	= Kilovolt/Centimeter
	× 3937(4/o).	= Microvolt/Meter
	× 1.313	= Millivolt/Meter
		= Statvolt/Centimeter

V CONVERSION FACTORS

Volt/Mil	× 393.7	= Volt/Centimeter	
	× 1000.	= Volt/Inch	
	× 39370.	= Volt/Meter	
Volt: × Power Factor	× Ampere	= Watt	
Single Ph × Amp	× .001	= Kilovolt-Ampere	AC
2 Ph-4 Wire × Amp	× .002	= Kilovolt-Ampere	AC
3 Ph × Amp	× .00173	= Kilovolt-Ampere	AC
Single Ph × Amp × PF	× .001	= Kilowatt	AC
2 Ph-4 Wire × Amp × PF	× .002	= Kilowatt	AC
3 Ph × Amp × PF	× .00173	= Kilowatt	AC
Single Ph × Amp × PF × % Eff	× .00134	= HP Elec	AC
2 Ph-4 Wire × Amp × PF × % Eff	× .00268	= HP Elec	AC
3 Ph × Amp × PF × % Eff	× .002319	= HP Elec	AC
Volt: × Second	× 1(8/o).	= Line	
Volt-Second	× 1(5/o).	= Kiloline	
	× 1(8/o).	= Maxwell	
Volt-Second/Square Centimeter	× 6.452	= Volt-Second/Square Inch	
Volt-Second/Square Inch	× .1550	= Volt-Second/Sq Centimeter	
Volume, Unit	× Density	= Weight	
Valences: Acetate	= -1	= $C_2H_3O_2$	
Aluminum	= +3	= Al	
Ammonium	= +1	= NH_4	
Antimonic	= +5	= Sb	
Antimony	= +3	= Sb	
Arsenate	= -3	= AsO_4	
Arsenic	= +5	= As	
Arsenite	= -3	= AsO_3	
Arsenous	= +3	= As	
Barium	= +2	= Ba	
Bicarbonate	= -1	= HCO_3	
Bismuth	= +3	= Bi	
Bisulfate	= -1	= HSO_4	
Bisulfite	= -1	= HSO_3	
Boron	= +3	= B	
Bromide (Bromine)	= -1	= Br	
Valences: Cadmium	= +2	= Cd	
Calcium	= +2	= Ca	
Carbide	= -4	= C	
Carbon	= +4	= C	
Carbonate	= -2	= CO_3	
Chlorate	= -1	= ClO_3	
Chloride	= -1	= Cl	
Chlorine	= -1	= Cl	
Chromate	= -2	= CrO_4	
Chromic	= +3	= Cr	
Cupric	= +2	= Cu	
Cuprous	= +1	= Cu	
Cyanide	= -1	= CN	
Ferric	= +3	= Fe	
Ferrous	= +2	= Fe	
Flouride	= -1	= F	
Valences: Hydrogen	= +1	= H	
Hydroxide	= -1	= OH	
Iodide	= -1	= I	
Lead	= +2	= Pb	
Lithium	= +1	= Li	
Magnesium	= +2	= Mg	
Manganese	= +2	= Mn	
Mercuric	= +2	= Hg	
Mercurous	= +1	= Hg	
Nickel	= +2	= Ni	
Nitrate	= -1	= NO_3	
Nitric (Nitrogen)	= +5	= N	
Nitride	= -3	= N	
Nitrite	= -1	= NO_2	
Oxide	= -2	= O	



Valences: Permangana
Phosphate
Phosphoric
Phosphorou
Potassium
Silicon
Silver
Sodium
Sulfate
Sulfide
Sulfite
Stannic
Stannous
Sulfur
Zinc

Waffle Iron
Wallpaper: Fee: Arou
Square Fe
Washing Machine: Ho
Water

Water: Ba (31.5)
Water: Barrel (42) 3
60
Water: Barrel (42)/D
Water: Barrel (42)/H
Water: Barrel US/Da
Water: Boiler, Feed:
Water: Cast Iron Ra
Water: Compressibil
Water: Cooling: °F
Water: Cubical Expa
Water: Cubic Centim
Water: Cubic Foot 3

Valences: Permanganate	= -1	= MnO_4
Phosphate	= -3	= PO_4
Phosphide	= -3	= P
Phosphoric	= +5	= P
Phosphorous	= +3	= P
Potassium	= +1	= K
Silicon	= +4	= Si
Silver	= +1	= Ag
Sodium	= +1	= Na
Sulfate	= -2	= SO_4
Sulfide	= -2	= S
Sulfite	= -2	= SO_3
Stannic	= +4	= Sn
Stannous	= +2	= Sn
Sulfur	= -2	= S
Zinc	= +2	= Zn

W

Waffle Iron Up to	= 1000.	= Watt Avg Use
Wallpaper: Feet Around Room	× .1111	= Number Rolls Needed
Square Feet in Room	× .01375	= Number Rolls Needed
Washing Machine: Home Automatic	= 700	= Watt Avg Use
Water	= 79.24	= Btu (Latent Heat)
	= .435	= Btu/Pound (Cp)
	= .324	= Btu/Pound (Cv)
	= 8.065	= Molal
	= 1.00000	= Relative Volume 39.1F
	= 1.00025	= Relative Volume 50F
	= 1.00083	= Relative Volume 59F
	= 1.00171	= Relative Volume 68F
	= 1.00425	= Relative Volume 77F
	= 1.00586	= Relative Volume 95F
	= 1.00767	= Relative Volume 104F
	= 1.04332	= Relative Volume 212F
	= 1.94	= Slug/Cubic Foot 32F
	= 1.938	= Slug/Cubic Foot 60F
	= 1.0000	= Spg 4C or 39.2F
	= .958	= Spg 100C or 212F
Water: Barrel (31.5)	× 4.2109	= Cubic Feet
	× 7276.5	= Cubic Inch
Water: Barrel (42) 39.2F	× 350.49	= Pound
60F	× 350.16	= Pound
Water: Barrel (42)/Day	× 1.75	= Gal/Hour
	× .02916	= Gal/Minute
	× .000486	= Gal/Second
Water: Barrel (42)/Hour	× .09357	= Cuft/Minute
	× 2.694	= Cuin/Second
	× .2859	= Diam Inch Squared × fps
	× .7	= gpm
Water: Barrel US/Day	× 1.3125	= Gal/Hour
	× .021875	= Gal/Minute
	× .0003646	= Gal/Second
Water: Boiler, Feed: Chloride	= 6 ppm	= Max in Terms of Chlorine
Dissolved Oxygen	= .05	= cc/Liter Maximum
Hardness	= 26 ppm	= Max in Terms of Cal Carbonate
Oil	= None	
Organic Matter	= .5	= ppm Maximum
pH Value	= 7.0	= Not Less Than
Water: Cast Iron Radiation: Sqft	× 66.	= Btu/Degree-Day (Consumes)
	× 150.	= Btu/Hour (Transmits)
Water: Compressibility: Atmosphere	× .4/o51	= Volume (Maximum)
Water: Cooling: °F × gpm × °F Liquid Temp Drop	× 8.33	= Btu/Hour
Water: Cubical Expansion @ 70F	= 115.	= Parts/Million/°F
Water: Cubic Centimeter	× .99997	= Gram 39.1F
	× .998844	= Gram 62F
Water: Cubic Foot 39.1F	× 1646.	= Cubic Feet of Steam
	× .028317	= Cubic Meter

W — CONVERSION FACTORS

Water: Cubic Foot 39.1F	× 6.232102	= Gallon British
	× 7.480519	= Gallon Liquid US
	× 28.317	= Liter
	× 62.425	= Pound (Maximum Density)
	× .00284	= Ton Long
60F	× 62.366	= Pound
62F	× 62.355	= Pound
70F	× 62.2987	= Pound
100F	× 62.0	= Pound
130F	× 61.55	= Pound
170F	× 60.8	= Pound
200F	× 60.12	= Pound
212F	× 26.8	= Cuft Steam 14.7 psia
212F	× 59.83	= Pound
212F Evaporated At	× 7.5	= Pound Coal Practical
	× 4.4	= Pound Coal Heat Value
Water: Cubic Foot/Day	× .0417	= Cuft/Hour
	× .000694	= Cuft/Minute
	× .4/o1157	= Cuft/Second
Water: Cubic Foot/Hour	× 24.	= Cuft/Day
	× .01666	= Cuft/Minute
	× .0002777	= Cuft/Second
	× 7.48	= Gal/Hour
	× .1247	= gpm
	× .002078	= Gal/Second
Water: Cubic Foot Million	× 22.95	= Acre-Foot
Water: Cubic Foot Million/Day	× 4166.67	= Cuft/Hour
	× 694.446	= Cuft/Minute
	× 11.5741	= Cuft/Second
Water: Cubic Foot/Minute	× 256.464	= Bbl(42)/Day
	× 10.686	= Bbl(42)/Hour
	× .1781	= Bbl(42)/Minute
	× .002968	= Bbl(42)/Second
	× 471.950	= cucm/Second
	× 1440.	= Cuft/Day
	× 60.	= Cuft/Hour
	× .01666	= Cuft/Second
	× 103680.	= Cuin/Hour
	× 1728.0	= Cuin/Minute
	× 28.800	= Cuin/Second
	× .02832	= Cubic Meter/Minute
	× 10771.2	= Gal/Day
	× 448.83	= Gal/Hour
	× 7.480519	= Gal/Minute
	× .1247	= Gal/Second
	× .4719	= Liter/Second
	× 3741.3	= Pound Water 62F/Hour
	× 62.425	= Pound Water 39.1F/Minute
	× 62.355	= Pound Water 62F/Minute
Water: Cubic Foot/Second	× 15387.43	= Bbl(42)/Day
	× 641.16	= Bbl(42)/Hour
	× 10.686	= Bbl(42)/Minute
	× .1780959	= Bbl(42)/Second
	× 86400.	= Cuft/Day
	× 3600.	= Cuft/Hour
	× 60.	= Cuft/Minute
	× 646316.8416	= Gallon/Day
	× 2692.86	= Gallon/Hour
	× 448.831	= Gallon/Minute
	× 7.480519	= Gallon/Second
	× .646316	= Gallon Million/Day
	× 5387472.	= Pound Water 62F/Day
	× 224478.	= Pound Water 62F/Hour
	× 3741.3	= Pound Water 62F/Minute
	× 62.355	= Pound Water 62F/Second
Water: Cubic Inch 39.1F	× .003607	= Gallon British

Water: Cubic Inch 39.1F	× .004329	= Gallon US
	× .576384	= Ounce Avoir
39.2F	× .036125	= Pound Avoir
60 F	× .03609	= Pound Avoir
212 F Evaporated at	× 1.0	= Cubic Foot Steam (Approx)
	× .5	= Pound Avoir
Water: Cup		
Waterfall: Cuft/Min × Feet Height	× .114	= HP (100% Eff)
Cuft/Min × Feet Height	× .10032	= HP (88% Eff)
Sq ft/Cross Section × Ft High × fps	× .001878	= HP (100% Eff)
Water: Feet Head Friction Loss × Feet Diam	× 3220.	= fps Squared × Ft Pipe Length
Water: Feet/Second Squared	× .015625	= Head in Feet
	× .015625	= Ft Velocity Head
Water-Flooding: Five-Spot	= 72%	= Relative Efficiency
Regular Line Drive	= 71%	= Relative Efficiency
Seven-Spot	= 74%	= Relative Efficiency
Staggered Line Drive	= 80%	= Relative Efficiency
2-Year Stripper	= 3000.	= Bbl/Acre Avg Efficiency
Water: Fresh: Pound	× 1.6 to 1.9	= Pound Sea Water
Water: Gallon British 39.1F	× 277.420	= Cubic Inch British
	× 277.418	= Cubic Inch US
	× 1.20094	= Gallon Liquid US
	× 4.537	= Liter
62F	× .16046	= Cubic Foot
	× 277.274	= Cubic Inch
	× 10.	= Pound
Water: Gallon/Day (gpd)	× .5/o1547	= Cuft/Second
Water: Gallon/Hour (gph)	× .1337	= Cuft/Hour
	× .002228	= Cuft/Minute
	× .4/o371	= Cuft/Second
	× .01666	= gpm
	× .0002777	= gps
Water: Gallon Million/Day	× 133680.	= Cuft/Day
	× 92.88	= Cuft/Minute
	× 1.548	= Cuft/Second
	× 694.44	= gpm
	× 11.57	= gps
Water: Gallon/Minute (gpm)	× 34.28	= Bbl(42)/Day
	× 1.428	= Bbl(42)/Hour
	× .0238	= Bbl(42)/Minute
	× 192.5	= Cuft/Day
	× 8.02	= Cuft/Hour
	×.1337	= Cuft/Minute
	× .002228	= Cuft/Second
	× 1440.	= Gallon/Day
	× 60.	= Gallon/Hour
	× .01666	= Gallon/Second
	× 24.51	= Pipe Diam Inch Squared × fpm
	× .4085	= Pipe Diam Inch Squared × fps
	× .002228	= Second/Foot
	× 5.35	= Ton Long Water 62F/Day
	× 6.00	= Ton Short Water 62F/Day
Water: Gallon/Minute/Day	× .0042	= Acre-Foot
Water: Gallon/Minute × Feet Head	× .0002525	= HP US (100% Pump Eff)
	× .000297	= HP US (85% Pump Eff)
	× .0003885	= HP US (65% Pump Eff)
	× .000505	= HP US (50% Pump Eff)
Water: Gallon/Second (gps)	× 481.	= Cuft/Hour
	× 8.02	= Cuft/Minute
	× .1337	= Cuft/Second
	× 60.	= Gal/Minute
	× 3600.	= Gal/Hour
Water: Gallon US	× .5/o30688832	= Acre-Foot
	× 3.78	= Liter
Water: Gallon US: 39.1F	× .8326735	= Gallon British
	× .8593649	= Gallon Dry US
39.2F	× 8.345	= Pound

W CONVERSION FACTORS

Water: Gallon US: 60F	× 8.337	= Pound
62F	× .13368056	= Cubic Foot
	× 231.	= Cubic Inch (Standard)
	× 8.3311	= Pound
65F	× 58330.	= Grain
212F Evaporated At	× 1.0	= Pound Coal Common
7" Diameter	× 6" High	= Cylinder (Std Container)
Water: .5" Garden Hose: Hour Used	× 200.	= Gallon (with Nozzle)
.75" Garden Hose: Hour Used	× 300.	= Gallon (with Nozzle)
Water: Gram	× .03371	= Fluid Ounce
Water: Head (See "Height"): Foot	× 64.	= fps Squared
Inch	× .0361 Density	= psi Fluid Head
	× #/cuin Density	= psi Fluid Head
Inch × Orifice Area Sqin	× 27.8	= Cuin/Sec Flow Rate
Water: Heat Conductivity: k	= .343	= Btu/(Hr-Sqft)(°F/Ft)
Water Heater: Home:	= 2-4000	= Watt Avg Use
Water: Heat of Vaporization		= Heat of Condensation
Water: Height; Centimeter 39.1F	× 980.639	= Dyne/Square Centimeter
Water: Height: Feet 39.1F	× 62.425	= Pound/Square Foot
	× .4335	= Pound/Square Inch
Feet 39.2F	× .0294992	= Atmosphere
	× 2.24198	= Centimeter Mercury 32F
	× 29890.1	= Dyne/Square Centimeter
	× 30.4794	= Gram/Square Centimeter
	× .882647	= Inch Mercury 32F
	× .03048	= Kilogram/Square Meter
	× 22.42	= Millimeter Hg 32F
	× 62.45	= psf
Feet 59F	× .02947	= Atmosphere
	× .03045	= Atmosphere Metric
	× .8819	= Inch Mercury: 32F
	× 12.	= Inch Water: 59F
	× .03045	= Kilogram/Sq Centimeter
	× .02986	= Megabar
	× .02986	= Megadyne/Sq Centimeter
	× .02240	= Meter Mercury: 32F
	× .3048	= Meter Water: 59F
	× .4331	= Pound/Sq Inch
	× .03119	= Ton Short/Sq Foot
Water: Height: Feet 60F	× .4331	= Pound/Square Inch
Feet 62F	× 819.6	= Feet of Air 62F
	× .8816	= Inch of Mercury
	× 6.92832	= Ounce/Square Inch
	× 62.355	= Pound/Square Foot
	× .43302	= Pound/Square Inch
Feet 70F	× 14.5481	= Inch Red Oil
	× .8843	= Inch Mercury
	× .69221	= Ounce/Square Inch
	× 62.2987	= Pound/Square Foot
	× .4326	= Pound/Square Inch
Water: Height: Inch 39.2F	× .002458	= Atmosphere 76cm:32F
	× .002491	= Bar
	× .1868	= Centimeter Mercury 32F
	× .002491	= Dyne/Sq Centimeter
	× .08333	= Ft Water 39.2F=4C
	× .07355	= Inch Mercury 32F
	× .00254	= kg/Sqcm
	× 25.40	= Kilogram/Square Meter
	× 1.868	= Millimeter Hg 32F
	× .0002491	= Newton/Square Meter
	× 5.204	= Pound/Square Foot
	× .03613	= Pound/Square Inch
	× .002601	= Ton Short/Sq Foot
Inch 59F	× .002456	= Atmosphere
	× .002538	= Atmosphere Metric
	× .08333	= Feet Water: 59F

Water: Height: Inch 59F	× .07349	= Inch Mercury: 32F
	× .002538	= Kilogram/Sq Centimeter
	× .002489	= Megabar
	× .002489	= Megadyne/Sq Centimeter
	× .001867	= Meter Mercury: 32F
	× .02540	= Meter Water: 59F
	× .03609	= Pound/Sq Inch
	× .002599	= Ton Short/Sq Foot
Inch 60F	× .03613	= Pound/Square Inch
Inch 62F	× 68.3	= Feet of Air 62F
	× .07347	= Inch of Mercury
	× .5774	= Ounce/Square Inch
	× 5.1966	= Pound/Square Foot
	× .036085	= Pound/Square Inch
Inch 70F	× 1.2123	= Inch Red Oil(Min Seal Spg.827)
	× .5768	= Ounce/Square Inch
	× .03605	= Pound/Square Inch
Water: Height: Meter 59F	× .09670	= Atmosphere
	× .09991	= Atmosphere Metric
	× 3.281	= Feet Water: 59F
	× 2.893	= Inch Mercury: 32F
	× 39.37	= Inch Water: 59F
	× .09991	= Kilogram/Sq Centimeter
	× .09798	= Megabar
	× .09798	= Megadyne/Sq Centimeter
	× .07349	= Meter Mercury: 32F
	× 204.633	= Pound/Square Foot
	× 1.421	= Pound/Square Inch
	× .1023	= Ton Short/Sq Foot
Meter 62F	× 1.420666	= Pound/Square Inch
Water: Inch	× 10.	= Inch of Snow (Common)
	× 1.0	= Inch of Water
	× 14.0	= Pint/Minute
	× 1.0	= Waterinch
Water: Lawn Sprinkler: Front Foot of Lot	× .5	= Hrs Watering to = 1" Rain
Hour Used	× 120.	= Gallon
Water Leak Loss: 1/32" Stream: Hour	× 7.5	= Gallon 40 psi
1/16" Stream: Hour	× 30.	= Gallon 40 psi
1/8" Stream: Hour	× 113.	= Gallon 40 psi
1/4" Stream: Hour	× 283.	= Gallon 40 psi
1/2" Stream: Hour	× 1008.	= Gallon 40 psi
Water: Lift In Feet × Gallon US	× 8.35	= Foot-Pound Work
Water Manometer: Sq Root of Inch Height	× 4000.	= Cuft/Min (Air Flow in Pipe)
Water-Oil Emulsion: To Raise Heat: % Water	× 193. + 149	= Btu Heat/Bbl(42)/°F Raised
Water: Orifice Plate Meter: Sq Root Inch Height	× 2.315	= Feet/Second
Water: Ounce Fluid US	× 1.735	= Cubic Inch
	× .125	= Cup
	× 2.	= Tablespoon
Water Pail (Common)	× 2.272	= Gallon Liquid US
	× 19.	= Pound (Capacity)
Water: Percent in Crude Oil	× .032	= Micromicrofarad Change
Water: Pipe: Area Square Inch × fpm	× .006944	= Cuft/Sec
	= 144.	= Cuft/Sec
Water: Pipe: Diam Inch Squared × fpm	× .00545	= Cuft/Sec
	× .0408	= Gal Water/Min
	× .7854	= Cuft/Min
Water: Pipe: fps Squared × Ft Long	× .0003105	= Ft Diam × Ft Hd Frict Loss
fps Squared × Ft Long	× .003726	= In Diam × Ft Hd Frict Loss
Water: Pipe: Ft Diam × Ft Head Frict Loss	× 3220.20	= fps Squared × Ft Long
Water: Pipe: Inch Diam × Ft Head Frict Loss	× 268.35	= fps Squared × Ft Long
Water: Pipe: Radius Inch Squared × fpm	× .0218166	= Cuft/Sec
	× 1.308	= Cuft/Min
	× 78.48	= Cuft/Hour
	× 1883.52	= Cuft/Day
Water: Pipe: 4th Power Inch Diam × Ft Velocity Head	= .00259	× gpm Squared
4th Power Inch Diam × Ft Velocity Head	= .00127	× bbl(42)/Hr Squared

CONVERSION FACTORS

Water: Pound 62F	× .01603489	= Cubic Foot
	× 27.72	= Cubic Inch
	× .10	= Gallon Liquid British
	× .120	= Gallon Liquid US
	× .4536	= Kilogram
Pound 212F: Evaporated At	× 970.	= Btu Required
	× 1.763	= Cuft Manufactured Gas
	× .8617	= Cuft Natural Gas
	× 751300.	= Foot-Pound
	× .3813	= Horsepower-Hour US
	× 1019000.	= Joule
	× 103900.	= Kilogram-Meter
	× .284	= Kilowatt-Hour
	× .07414	= Pound Anthracite
	× .066726	= Pound Bituminous
	× .1549	= Pound Dry Wood
	× .0507	= Pound Fuel Oil
Water: Pound/Hour	× °F Temp Rise	= Btu Liberated/Hr
Water: Pound 62F/Hour	× .002673	= Cuft/Min
	× .4/o4455	= Cuft/Sec
	× 2.8794	= Gal/Day
	× .1200	= Gal/Hr
	× .0020	= Gal/Min
	× .01666	= Pound Water 62F/Min
Water: Pound 62F/Minute	× .01604	= Cuft/Min
	× .002673	= Cuft/Sec
	× 172.7658	= Gal/Day
	× 7.1986	= Gal/Hr
	× .1200	= Gal/Min
	× 60.	= Pound Water 62F/Hr
Water: Pound/Square Inch	× 2.30947	= Feet Head or Height 62F
Waterproofing: Brick or Tile: Gallon	× 1.0	= Labor-Hour
Square Feet	× .0133	= Gallon of Coating
Membrane: Number Plies	× .008	= Labor-Hour/Square Foot
	× 3.2	= Pound Tar-Asphalt/Sqft
	× 1.1	= Sqft Felt-Burlap/Sqft
Rough Concrete: Gallon	× 1.0	= Labor-Hour
Square Feet	× .0133	= Gallon of Coating
Smooth Concrete: Gallon	× 1.5	= Labor-Hour
Square Feet	× .008	= Gallon of Coating
Stone: Square Feet	× .008	= Gallon of Coating
Wood: Square Feet	× .004	= Gallon of Coating
Wood or Stone: Gallon	× 1.5	= Labor-Hour
Water: Pump: bbl/hr × spg × Ft Total Hd	× .000176678	= Hydraulic Horsepower
	× 1.0	= 5660. × Hyd HP
Water: Pump: bbl/Hr × Total Head psi	× 1.0	= 2450. × Hyd HP
	× .00040818	= Hydraulic Horsepower
Water: Pump: % Eff × % Motor Eff × Kw/kilo-Gallon/Hr		= .00315 × spg × Ft Total Head
% Pump Efficiency	× Brake HP	= Hydraulic Horsepower
Water: Pump: Ft Discharge Head − Ft Suct Hd		= Ft Total Head
Ft Discharge Head + Ft Suct Lift		= Ft Total Head
Ft Static Suct Hd − Ft Suct Frict Hd		= Ft Total Suction Head
Ft Suct Lift + Ft Static Suction Lift		= Ft Total Suction Lift
Water: Pump: gpm × spg × Ft Total Hd	× .000252399	= 3960. × Brake HP × % Pump Eff
	× .000252399	= Hydraulic Horsepower
	× 8.33	= 33000. × Hyd HP
Water: Pump: gpm × Total Head psi	× .00058343	= Hydraulic Horsepower
	× 1.0	= 1714. × Hyd HP
Water: Pump: Theoretical Horsepower	× 1.0	= Hydraulic Horsepower
Water Pump: Home:	= 700.	= Watt Avg Use
Water: Relative Volume @ °F	× #/cuft @ °F	= 62.4245 Pound/cuft
Water: Salt: Spg 1.154: Barrel (42)	× 404.2499	= Pound 60F
Cubic Foot	× 71.970	= Pound 60F
	× 1.99	= Slug
Feet Head	× .500	= Pound/Square Inch 60F
Water Sea:	= 1.02 to 1.03	= Specific Gravity

Water Sea: Freezing Point	= 27.	= Degree F (Fresh Ice)
Water: Square Root Feet Head	× 8.0	= Ft/Sec (Nozzle Discharge)
Square Root of psi	× 12.16	= Ft/Sec (Nozzle Discharge)
Water: Surface Tension: Centimeter	× 71.	= Dyne 78F
Water: Tank: To Raise Heat; Pound Water × 1.1	× °F	= Btu Required (+10% Loss)
Rise in °F × 1.1	× Lb Water	= Btu Required (+10% Loss)
Rise in °F	× Pound Water	= Btu Required (No Loss)
Water: Temperature Rise in °F	× Pound/Hour	= Btu Liberated/Hr
Water: To Cool a Device: Gpm × °C Rise	× .264	= Kilowatt (Dissipated)
Water: Ton Long	× 35.9249	= Cubic Feet 62F
	× 224.0	= Gallon Liquid British
	× 268.87217	= Gallon Liquid US
Water: Ton Short	× 32.07	= Cubic Feet 62F
	× 240.06433	= Gallon Liquid US
Water Travels thru Oil Sand	= 35-250	= Feet/Year (Average 70)
Water: Triple Point Pressure	= .4579	= Centimeter Mercury
Triple Point Temperature	= 273.15	= Degree C Absolute
Water Usage: Automatic Washing Machine	= 17.	= Gal/Load
Baths (Shower or Tub)	= 30.	= Gal/Day/Person
Dish Washer @ 3 Gal/Load	= 9.	= Gal/Day
Garden Hose (1/2" Nozzle)	= 200.	= Gal/Hour
Lavatory @ 2 Gal/Filling	= 24.	= Gal/Day
Sink	= 60.	= Gal/Day
Toilet	= 12.	= Gal/Day/Person
Water Vapor	= 1.277	= Specific Heat Ratio
32F-30"Hg:	= 85.7	= Gas Constant
	= 18.016	= Molecular Weight
	= .6223	= Specific Gravity
Cubic Foot	× .050231	= Pound
Pound	× 19.908	= Cubic Feet
60F-30"Hg: Cubic Foot	× .04764	= Pound (Spg .62222)
Pound	× 20.99	= Cubic Feet
Cubic Meter of Air @ 30C	× 30.	= gm (100% Humidity)
	× 20.	= gm (67% Humidity)
	× 15.	= gm (50% Humidity)
	× 0.0	= gm (0% Humidity)
Degree Fahrenheit	× .00218778	= Expan Coeff (Cv 76cm Hg)
Water: Viscosity: 32F=0C:	= 1.7921	= Centipoise
68F	= 2.42	= Pound/Foot-Hour
68.4F=20.20C:	=1.000	= Centipoise
Water Volume	× 1.0855	= Ice Volume
Water Well: SW USA: Foot Depth × (.004 to .002)	+ 74	= °F Hole Temperature
Watt (W)	× 1.0	= Active Power Unit
	× .05685	= Btu/Minute
	× 3.4128	= Btu/Hour
	× .0009477	= Btu/Second
	× .000238889	= Calorie Large/Second
	× .238889	= Calorie Small/Second
	× 1.	= Electrical Power Unit
	× 1(7/o).	= Erg/Second
	× 2654.16	= Foot-Pound/Hour
	× 44.2534	= Foot-Pound/Minute
	× .737557	= Foot-Pound/Second
	× 1423.82	= Foot-Poundal/Minute
	× .000238889	= Gram-Calorie/Second
	× .001360	= Horsepower Metric
	× .001341	= Horsepower US
	× 1.0	= Joule/Second
	× .01433	= Kilogram-Calorie/Minute
	× .238889	= Kilogram-Calorie/Second
	× .10198	= Kilogram-Meter/Second
	× .001	= Kilowatt
	× 13.66	= Lumen (Light Bulb Eff)
	× 680.272	= Lumen (Radiation Equiv)
	× .001020	= Poncelet
	× 312(8/o).	= U^{235} Fission/Second

W — CONVERSION FACTORS

Watt (W)	× 1.0	= Volt-Ampere
	× 1.0	= Watt Absolute
	× .9998	= Watt International
	× Lumen/Watt	= 12.566 × Candlepower
	× Lumen/Watt	= Lumen
	× Ohm	= Volt Squared
	× Second	= Joule
Watt Absolute	× 1.0	= Watt (Commonly written)
Watt-Hour (whr)	× 1.	= Ampere-Hour/Volt
	× 3.4128	= Btu
	× 36(9/o).	= Dyne-Centimeter
	× 36(9/o).	= Erg
	× 1.0	= Energy Unit
	× 2655.4	= Foot-Pound
	× 859.975	= Gram-Calorie
	× 3671(4/o).	= Gram-Centimeter
	× .00134102	= Horsepower-Hour US
	× .00013596	= Horsepower Metric-Hour
	× 4.89456	= Horsepower Metric-Second
	× 4.8276	= Horsepower US-Second
	× 3600.	= Joule Int.
	× .859975	= Kilogram-Calorie
	× 367.1	= Kilogram-Meter
	× .001	= Kilowatt-Hour
	× 3.6	= Kilowatt-Second
	× .5027	= Mile-Pound
	× 1.8972	= Pound-Chu
	× 3600.	= Watt-Second
Watt-Hour/Second	× 3600.	= Watt
Watt International	× 1.000165	= Watt
	× 1.000165	= Watt Absolute
Watt × Lumen/Watt	× .0795877	= Candlepower
Watts Convected/Sqin Vert Surface in Air	= .0014 × (Rise °C)× (4th Root of Rise °C)	
Watt-Second	× .0009477	= Btu
	× 1(7/o).	= Dyne-Centimeter
	× 1(7/o).	= Erg
	× .23888	= Gram-Calorie
	× 10197.16	= Gram-Centimeter
	× .737557	= Foot-Pound
	× .6/o372506	= Horsepower-Hour
	× .00136	= Horsepower Metric-Second
	× .4/o22350	= Horsepower US-Minute
	× .00134102	= Horsepower US-Second
	× 1.	= Joule
	× .3/o23888	= Kilogram-Calorie
	× .1019716	= Kilogram-Meter
	× .6/o2777	= Kilowatt-Hour
	× .001	= Kilowatt-Second
	× .000527	= Pound-Chu
	× .3/o2777	= Watt-Hour
Watt × Second	× 1(7/o).	= Dyne-Centimeter
	× 1(7/o).	= Erg
Watt/Square Centimeter	× 76081.	= Btu/Day/Sqft
	× 3170.	= Btu/Hr/Sqft
	× 859.68	= Gram-Calorie/Hr/Sqcm
	× .2388	= Gram-Calorie/Sec/Sqcm
Watt/Square Centimeter/°C	× 42267.	= Btu/Day/Sqft/°F
	× 1761.	= Btu/Hr/Sqft/°F
	× 859.68	= Gram-Calorie/Hr/Sqcm/°C
	× .2388	= Gram-Calorie/Sec/Sqcm/°C
Watt/Square Centimeter/Centimeter/°C	× 16641.	= Btu/Day/Sqft/In/°F
	× 57.79	= Btu/Hr/Sqft/Ft/°F
	× 693.5	= Btu/Hr/Sqft/Inch/°F
	× 859.68	= Gram-Calorie/Hr/Sqcm/cm/°C
	× .2388	= Gram-Calorie/Sec/Sqcm/cm/°C
Watt/Square Inch	× 8.19	= Btu/Sqft/Minute

Watt/Square Inch

Watt/Squa /°F

Watts Radiated/ Sqin
/Sqin
/Sqin

Watt True

Weber

Weber/Square Centim

Weber/Square Inch

Weber/Square Meter

Wedge Spherical Sp
Sp

Week

Weight-Force

Weight-Ton British a
Metric C

Wichita Kansas Heat

Wineglassful

Wheelbarrow Feet W

Wheelbarrow Stand

Wire Area Square C

Wire Diameter Mil
Diameter Mil S

Wire Mil-Foot

Wiring Draw Wire t
Housework
Install Cond
Other Work

Wood Dry Average
Linear Expar

Watt/Square Inch	× 6371.	= Foot-Pound/Sqft/Minute
	× .193	= Horsepower/Square Foot
Watt/Square Inch/°F	× 11764.7	= Btu/Day/Sqft/°F
	× 490.2	= Btu/Hr/Sqft/°F
	× 239.37	= gm-cal/Hr/Sqcm/°C
	× .06647	= gm-cal/Sec/Sqcm/°C
	× .19313	= HP/Sqft/°F
	× 2392.15	= Kg-cal/Hr/Sqm/°C
	× 490.2	= pcu/Hr/Sqft/°C
	× 863235.3	= Thermal Ohm/Sqcm
	× .27833	= Watt/Sqcm/°C
Watts Radiated/Sqin Cast Iron Surface	= .8/o92 × (Hot Body °K⁴ - Ambient or Wall °K⁴)	
/Sqin Steel Surface	= .7/o2576 × (Hot Body °K⁴ - Ambient or Wall °K⁴)	
/Sqin Surface = .10/o368 × (Emissivity) × (Hot Body °K⁴ - Ambient or Wall °K⁴)		
Watt True	× 1.0005	= Volt-Ampere International
Weber	× 1(5/o).	= Kiloline
	× .00333585	= Magnetic Flux Unit
	× 1(8/o).	= Maxwell
Weber/Square Centimeter	× 1(8/o).	= Gauss
	× 1(8/o).	= Line/Sqcm
	× 645163000.	= Line/Square Inch
	× .00333585	= Mag Flux Density Unit
	× 10000.	= Weber/Square Meter
Weber/Square Inch	× .6/o155	= Gauss
	× .6/o155	= Line/Square Inch
	× 1(8/o).	= Line/Square Inch
	× 155(5/o).	= Maxwell/Square Centimeter
	× 1(8/o).	= Maxwell/Square Inch
	× .155	= Weber/Square Centimeter
	× 1550.	= Weber/Square Meter
Weber/Square Meter	× 10000.	= Gauss
	× 64520.	= Line/Square Inch
	× .0001	= Weber/Square Centimeter
	× .0006452	= Weber/Square Inch
Wedge Spherical: Sphere Area × Wedge Dihedral Angle = 360.		× Lune Area
Sphere Volume × Wedge Dihedral Angle = 360.		× Wedge Volume
Week	× 7.	= Day
	× 168.	= Hour
	× 10080.	= Minute
	× 604800.	= Second
Weight-Force	× Height	= Potential Energy
Weight-Ton: British and US	× 2240.	= Pound
Metric Countries	× 2204.6	= Pound
Wichita Kansas Heating Load	= 4675.	= Degree-Day
Wineglassful	× 2.	= Fluid Ounce
Wheelbarrow: Feet Wheeled	× .6	= Man-Hr/Cuyd(Dry Avg Soil)
	× .7	= Man-Hr/Cuyd(Dry Clay)
	× .75	= Man-Hr/Cuyd(Dry Hard Pan)
	× .6	= Man-Hr/Cuyd(Dry Sand-Loam)
	× .75	= Man-Hr/Cuyd(Wet Avg Soil)
	× .85	= Man-Hr/Cuyd(Wet Clay)
	× .95	= Man-Hr/Cuyd(Wet Hard Pan)
	× .65	= Man-Hr/Cuyd(Wet Sand-Loam)
Wheelbarrow: Standard Capacity	= 4.0	= Cubic Feet
Wire: Area Square Centimeter × Ohm	= cm Wire	× K in sqcm/cm
Wire: Diameter Mil	× Feet	= Mil-Foot
Diameter Mil Squared × Ohm	= Feet Wire	× (k-mil-foot)
Wire: Mil-Foot	× 9.6	= Ohm (Commercial Copper)
	× 58.3	= Ohm (Pure Iron)
	× 90.0	= Ohm (Telegraph Iron)
Wiring: Draw Wire thru Conduit: Day	× 2000.	= Feet Circuit (Man + Helper)
Housework: Knob & Tube: Day	× 10.	= Outlets (Man + Helper)
Install Conduit: Hours	× (3/d") + 6	= Feet Conduit (Man + Helper)
Other Work: Day	× 500.	= Feet Circuit (Man + Helper)
Wood: Dry Average: Pound	× 8500.	= Btu(Heat Valve)
Linear Expansion	= 3.0 to 5.5	= Parts/Million/°F

W — CONVERSION FACTORS

Wood: Pine: Specific Heat	= .67	= Btu/Pound/°F
Pound	× 7870.	= Btu(Common Fuel Value)
Work: Centimeter	× Dyne	= Erg
Distance	× Weight	= Work
Feet	× Pound	= Foot-Pound
Units	= 1.	= Foot-Pound or gram-cm
	= 1.	= Gram-Meter or Kg-m

X

Xenon: (Xe): #54:13 AW:		
Xylene Gas: 60F-30"Hg:	= 3.664	= Specific Gravity Air=1
Cubic Foot	× 5146.	= Btu Gross Combustion Heat
	× 50.2	= Cuft Air for Combustion
	× .2805	= Pound
Cuft Mixed Air-Gas	× 100.48	= Btu Gross Combustion Heat
Pound	× 18340.	= Btu Gross Combustion Heat
	× 3.56	= Cubic Foot
	× 13.708	= Pound Air for Combustion
Flame Temperature	= 3740.	= Fahrenheit Degree Maximum

Y

Yard British	× .9999971	= Yard US
Yard (Construction Parlance)	× 1.	= Cubic Yard (Dirt-Rock etc)
Yard US	× 91.4402	= Centimeter
	× .04545	= Chain Gunter
	× 3.	= Feet
	× 36.	= Inch
	× .0009144018	= Kilometer
	× 4.54545	= Link
	× .9144018	= Meter
	× 3600/3937	= Meter (Act Congress 1886)
	× 914402.	= Micron
	× .0004934	= Mile Nautical US
	× .0005682	= Mile Statute US
	× 914.402	= Millimeter
	× 9144(5/o).	= Millimicron
	× 4.	= Quarter (Cloth)
	× .1818	= Rod
	× 1.0000029	= Yard British
Year	× .01	= Century
	× 8765.	= Hours
	× 365.24734	= Mean Solar Day
	× 525948.	= Minute
	× 31556925.	= Second
	× 366.008515	= Sidereal Day
Year/Kilo-Ounce Troy	× 11.74281	= Day/Kilogram
	× .365224	= Day/Ounce Troy
	× .28183	= Hour/Gram
	× 8.76581	= Hour/Ounce Troy
	× 1.01458	= Second/Milligram
	× 32.15072	= Year/Ton Metric
Year/Ton Metric	× .36524	= Day/Kilogram
	× .011360	= Day/Ounce Troy
	× .16567	= Day/Pound Avoir
	× .0087658	= Hour/Gram
	× .24851	= Hour/Ounce Avoir
	× .27265	= Hour/Ounce Troy
	× 3.97611	= Hour/Pound Avoir
	× .031557	= Second/Milligram
	× .031104	= Year/Kilo-Ounce Troy
	× .90719	= Year/Ton Short Avoir
Year/Ton Short Avoir	× .40261	= Day/Kilogram
	× .18262	= Day/Pound Avoir
	× .0096626	= Hour/Gram
	× .27393	= Hour/Ounce Avoir
	× 4.38291	= Hour/Pound Avoir
	× .034786	= Second/Milligram
	× 1.10231	= Year/Ton Metric

Youngs Modulus: Casing-Pipe: Length in Feet	× 3.4	= psi Stress (Hanging Free)
Tubing-Wire: Length in Feet	× 3.4	= psi Stress (Hanging Free)
Ytterbium: (Yb): #70:173.04 AW:		
Yttrium: (Y): #39.88.92 AW:		
Zero Temperature	= -273.16	= Centigrade Degree
	= 0.0	= Centigrade Degree Absolute
	= -459.69	= Fahrenheit Degree
	= 0.0	= Fahrenheit Degree Absolute
	= 0.0	= Kelvin Degree
	= 0.0	= Rankine Degree
Zinc	+ Copper Sulfate	= Zinc Sulfate + Copper
Zinc: (Zn): #30:65.38 AW: .10 SpHt: Val. +2:		
Cubic Foot	× 443.	= Pound 68F
Linear Expansion: Inch	× 14.0	= Micro-Inch/°F
Zirconium: (Zr): #40:91.22 AW:		
Zollpfund	× 500.	= Gram
Zone: Sphere: Radius × Height	× 6.28318	= Convex Surface Area