



| TO CONVERT | INTO | MULTIPLY BY | |
|--------------------|--------------------------|-------------------------|---------------------|
| acres | sq feet | 43,560.0 | |
| | sq meters | 4,047. | |
| | so miles | 1.562×10^{-3} | |
| | sq yards | 4,840. | |
| acre-feet | cu feet | 43,560.0 | |
| | gallons | 3.259×10^5 | |
| amperes/sq cm | amps/sq in. | 6.452 | |
| | amps/sq meter | 10^4 | |
| amperes/sq in. | amps/sq cm | 0.1550 | |
| | amps/sq meter | 1,550.0 | |
| amperes/sq meter | amps/sq cm | 10^{-4} | |
| | amps/sq in. | 6.452×10^{-4} | |
| ampere-hours | coulombs | 3,600.0 | |
| | faradays | 0.03731 | |
| ampere-turns | gilberts | 1.257 | |
| ampere-turns/cm | amp-turns/in. | 2.540 | |
| | amp-turns/meter | 100.0 | |
| | gilberts/cm | 1.257 | |
| ampere-turns/in. | amp-turns/cm | 0.3937 | |
| | amp-turns/meter | 39.37 | |
| | gilberts/cm | 0.4950 | |
| ampere-turns/meter | amp-turns/cm | 0.01 | |
| | amp-turns/in. | 0.0254 | |
| | gilberts/cm | 0.01257 | |
| | acres | 0.02471 | |
| ares | sq meters | 100.0 | |
| | cms of mercury | 76.0 | |
| atmospheres | ft of water (at 4 Deg.C) | 33.90 | |
| | in. of mercury (at 0 C) | 29.92 | |
| | kgs/sq cm | 1.0333 | |
| | kgs/sq meter | 10,332. | |
| | pounds/sq in. | 14.70 | |
| | tons/sq ft | 1.058 | |
| | barrels (oil) | gallons (oil) | 42.0 |
| | bars | atmospheres | 0.9869 |
| | | dynes/sqcm | 10^6 |
| | | kgs/sq meter | 1.020×10^4 |
| pounds/sq ft | | 2,089. | |
| pounds/sq in. | | 14.50 | |
| Btu | ergs | 1.0550×10^{10} | |
| | foot-lbs | 778.3 | |
| | gram-calories | 252.0 | |
| | horsepower-hrs | 3.931×10^4 | |
| | joules | 1,054.8 | |

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|------------------------|----------------------|------------------------|----------------------------------|
| Btu | kilogram-calories | 0.2520 | |
| | kilogram-meters | 107.5 | |
| | kilowatt-hrs | 2.928×10^{-4} | |
| Btu/hr | foot-pounds/sec | 0.2162 | |
| | gram-cal/sec | 0.0700 | |
| | horsepower | 3.929×10^{-4} | |
| | watts | 0.2931 | |
| Btu/min | foot-lbs/sec | 12.96 | |
| | horsepower | 0.02356 | |
| | kilowatts | 0.01757 | |
| | watts | 17.57 | |
| Btu/sq ft/min | watts/sq in. | 0.1221 | |
| bushels | cu ft | 1.2445 | |
| | cu in. | 2,150.4 | |
| | cu meters | 0.03524 | |
| | liters | 35.24 | |
| | pecks | 4.0 | |
| | pints (dry) | 64.0 | |
| | quarts (dry) | 32.0 | |
| | centares (centiares) | sq meters | 1.0 |
| | Centigrade | Fahrenheit | $(\text{Deg.C} \times 9/5) + 32$ |
| | centigrams | grams | 0.01 |
| centiliters | liters | 0.01 | |
| centimeters | feet | 3.281×10^{-2} | |
| | inches | 0.3937 | |
| | kilometers | 10^{-5} | |
| | meters | 0.01 | |
| | miles | 6.214×10^{-6} | |
| | millimeters | 10.0 | |
| | mils | 393.7 | |
| | yards | 1.094×10^{-2} | |
| | centimeter-dynes | cm-grams | 1.020×10^{-3} |
| | | meter-kgs | 1.020×10^{-8} |
| | | pound-feet | 7.376×10^{-8} |
| | centimeter-grams | cm-dynes | 980.7 |
| meter-kgs | | 10^{-5} | |
| pound-feet | | 7.233×10^{-5} | |
| centimeters of mercury | atmospheres | 0.01316 | |
| | feet of water | 0.4461 | |
| | kgs/sq meter | 136.0 | |
| | pounds/sq ft | 27.85 | |
| | pounds/sq in. | 0.1934 | |
| centimeters/sec | feet/min | 1.1969 | |
| | feetsec | 0.03281 | |
| | kilometers/hr | 0.036 | |
| | knots | 0.1943 | |
| | meters/min | 0.6 | |
| | miles/hr | 0.02237 | |

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| TO CONVERT | INTO | MULTIPLY BY |
|---------------------|---------------------|------------------------|
| centimeters/sec | miles/min | 3.728×10^{-4} |
| centimeters/sec/sec | feet/sec/sec | 0.03281 |
| | kms/hr/sec | 0.036 |
| | meters/sec/sec | 0.01 |
| | miles/hr/sec | 0.02237 |
| circular mils | sq cms | 5.067×10^{-6} |
| | sq mils | 0.7854 |
| | sq inches | 7.854×10^{-7} |
| coulombs | faradays | 1.036×10^{-5} |
| coulombs/sq cm | coulombs/sq in. | 64.52 |
| | coulombs/sq meter | 10^4 |
| coulombs/sq in. | coulombs/sq cm | 0.1550 |
| | coulombs/sq meter | 1,550. |
| coulombs/sq meter | coulombs/sq cm | 10^{-4} |
| | coulombs/sq in. | 6.452×10^{-4} |
| cubic centimeters | cu feet | 3.531×10^{-5} |
| | cu inches | 0.06102 |
| | cu meters | 10^{-6} |
| | cu yards | 1.308×10^{-6} |
| | gallons (U.S. liq.) | 2.642×10^{-4} |
| | liters | 0.001 |
| | pints (U.S. liq.) | 2.113×10^{-3} |
| | quarts (U.S. liq.) | 1.057×10^{-3} |
| cubicfeet | bushels (dry) | 0.8036 |
| | cu cms | 28,320.0 |
| | cu inches | 1,728.0 |
| | cu meters | 0.02832 |
| | cu yards | 0.03704 |
| | gallons (U.S. liq.) | 7.48052 |
| | liters | 28.32 |
| | pints (U.S. liq.) | 59.84 |
| | quarts (U.S. liq.) | 29.92 |
| cubic feet/min | cu cms/sec | 472.0 |
| | gallons/sec | 0.1247 |
| | liters/sec | 0.4720 |
| | pounds of water/min | 62.43 |
| cubic feet/sec | million gals/day | 0.646317 |
| | gallons/min | 448.831 |
| cubic inches | cu cms | 16.39 |
| | cu feet | 5.787×10^{-4} |
| | cu meters | 1.639×10^{-5} |
| | cu yards | 2.143×10^{-5} |
| | gallons (U.S. liq.) | 4.329×10^{-3} |
| | liters | 0.01639 |
| | mil-feet | 1.061×10^5 |
| | pints (U.S. liq.) | 0.03463 |
| | quarts (U.S. liq.) | 0.01732 |
| cubic meters | bushels (dry) | 28.38 |

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|-----------------|------------------------|---------------------------|---------|
| | cu cms | 10 ⁶ | |
| | cu feet | 35.31 | |
| | cu inches | 61,023.0 | |
| | cu yards | 1.308 | |
| | gallons (U.S. liq.) | 264.2 | |
| | liters | 1,000.0 | |
| | pints (U.S. liq.) | 2,113.0 | |
| | quarts (U.S. liq.) | 1,057. | |
| cubic yards | cu cms | 7.646 x 10 ⁵ | |
| | cu feet | 27.0 | |
| | cu inches | 46,656.0 | |
| | cu meters | 0.7646 | |
| | gallons (U.S. liq.) | 202.0 | |
| | liters | 764.6 | |
| | pints (U.S. liq.) | 1,615.9 | |
| cubic yards/min | quarts (U.S. liq.) | 807.9 | |
| | cubic ft/sec | 0.45 | |
| | gallons/sec | 3.367 | |
| | liters/sec | 12.74 | |
| days | hours | 24.0 | |
| | minutes | 1,440.0 | |
| | seconds | 86,400.0 | |
| decigrams | grams | 0.1 | |
| deciliters | liters | 0.1 | |
| decimeters | meters | 0.1 | |
| degrees (angle) | minutes | 60.0 | |
| | quadrants | 0.01111 | |
| | radians | 0.01745 | |
| | seconds | 3,600.0 | |
| | degrees/sec | radians/sec | 0.01745 |
| | degrees/sec | revolutions/min | 0.1667 |
| dekagrams | grams | 10.0 | |
| | grams | 10.0 | |
| dekaliters | liters | 10.0 | |
| dekameters | meters | 10.0 | |
| drams | grams | 1.7718 | |
| | grains | 27.3437 | |
| | ounces | 0.0625 | |
| | grams | 1.020 x 10 ⁻³ | |
| dynes | joules/cm | 10 ⁻⁷ | |
| | joules/meter (newtons) | 10 ⁻⁵ | |
| | kilograms | 1.020 x 10 ⁻⁶ | |
| | poundals | 7.233 x 10 ⁻⁵ | |
| | pounds | 2.248 x 10 ⁻⁶ | |
| | dynes/sq cmbars | 10 ⁻⁶ | |
| | Btu | 9.480 x 10 ⁻¹¹ | |
| ergs | dyne-centimeters | 1.0 | |
| | foot-pounds | 7.367 x 10 ⁻⁸ | |

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| TO CONVERT | INTO | MULTIPLY BY | |
|---------------|------------------|--------------------------|---------|
| ergs | gram-calories | 0.2389×10^{-7} | |
| | gram-cms | 1.020×10^{-3} | |
| | horsepower-hrs | 3.7250×10^{-14} | |
| | joules | 10^{-7} | |
| | kg-calories | 2.389×10^{-11} | |
| | kg-meters | 1.020×10^{-8} | |
| | kilowatt-hrs | 0.2778×10^{-13} | |
| | watt-hours | 0.2778×10^{-10} | |
| ergs/sec | Btu/min | $5,688 \times 10^{-9}$ | |
| | ft-lbs/min | 4.427×10^{-6} | |
| | ft-lbs/sec | 7.3756×10^{-8} | |
| | horsepower | 1.341×10^{-10} | |
| | kg-calories./min | 1.433×10^{-9} | |
| | kilowatts | 10^{-10} | |
| farads | microfarads | 10^6 | |
| faradays | ampere-hours | 26.80 | |
| | coulombs | 9.649×10^{-4} | |
| fathoms | feet | 6.0 | |
| feet | centimeters | 30.48 | |
| | kilometers | 3.048×10^{-4} | |
| | meters | 0.3048 | |
| | miles (naut.) | 1.645×10^{-4} | |
| | miles (stat.) | 1.894×10^{-4} | |
| | millimeters | 304.8 | |
| | mils | 1.2×10^4 | |
| | feet of water | atmospheres | 0.02950 |
| | | in. of mercury | 0.8826 |
| | | kgs/sq cm | 0.03048 |
| kgs/sq meter | | 304.8 | |
| pounds/sq ft | | 62.43 | |
| pounds/sq in. | | 0.4335 | |
| feet/min | cms/sec | 0.5080 | |
| | feet/sec | 0.01667 | |
| | kms/hr | 0.01829 | |
| | meters/min | 0.3048 | |
| | miles/hr | 0.01136 | |
| | cms/sec | 30.48 | |
| feet/sec | kms/hr | 1.097 | |
| | knots | 0.5921 | |
| | meters/min | 18.29 | |
| | miles/hr | 0.6818 | |
| | miles/min | 0.01136 | |
| | cms/sec/sec | 30.48 | |
| feet/sec/sec | kms/hr/sec | 1.097 | |
| | meters/sec/sec | 0.3048 | |
| | miles/hr/sec | 0.6818 | |
| feet/100 feet | per cent grade | 1.0 | |

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| TO CONVERT | INTO | MULTIPLY BY |
|------------------|-------------------------|------------------------|
| foot-pounds | Btu | 1.286×10^{-3} |
| | ergs | 1.356×10^7 |
| | gram-calories | 0.3238 |
| | hp-hrs | 5.050×10^{-7} |
| | joules | 1.356 |
| | kg-calories | 3.24×10^{-4} |
| | kg-meters | 0.1383 |
| | kilowatt-hrs | 3.766×10^{-7} |
| | foot-pounds/min | Btu/min |
| foot-pounds/min | foot-pounds/sec | 0.01667 |
| | horsepower | 3.030×10^{-5} |
| | kg-calories/min | 3.24×10^{-4} |
| | kilowatts | 2.260×10^{-5} |
| foot-pounds/sec | Btu/hr | 4.6263 |
| | Btu/min | 0.07717 |
| | horsepower | 1.818×10^{-3} |
| | kg-calories/min | 0.01945 |
| | kilowatts | 1.356×10^{-3} |
| furlongs | rods | 40.0 |
| | feet | 660.0 |
| gallons (U.S.) | cu cms | 3,785.0 |
| | cu feet | 0.1337 |
| | cu inches | 231.0 |
| | cu meters | 3.785×10^{-3} |
| | cu yards | 4.951×10^{-3} |
| | gallons (Imp.) | 0.83267 |
| | liters | 3.785 |
| | pints | 8.0 |
| | quarts | 4.0 |
| | gallons (liq. Br. Imp.) | gallons (U.S. liq.) |
| gallons of water | liters | 4.54 |
| | pounds of water | 8.3453 |
| gallons/min | cu ft/sec | 2.228×10^{-3} |
| | liters/sec | 0.06308 |
| | cu ft/hr | 8.0208 |
| gausses | lines/sq in. | 6.452 |
| | webers/sq cm | 10^{-8} |
| | webers/sq in. | 6.452×10^{-8} |
| | webers/sq meter | 10^{-4} |
| gilberts | ampere-turns | 0.7958 |
| | amp-turns/cm | 0.7958 |
| gilberts/cm | amp-turns/in | 2.021 |
| | amp-turns/meter | 79.58 |
| | gills | liters |
| gin | pints (tig.) | 0.25 |
| | martinis (dry) | 20g + 1v |
| grains (troy) | grains (avdp) | 1.0 |

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| TO CONVERT | INTO | MULTIPLY BY |
|-------------------|------------------------|-------------------------|
| grams | 0.06480 | |
| | ounces (avdp) | 2.0833×10^{-3} |
| | pennyweight (troy) | 0.04167 |
| grains/U.S. gal | parts/million | 17.118 |
| | pounds/million gal | 142.86 |
| grains/lmp. gal | parts/million | 14.286 |
| grams | dynes | 980.7 |
| | grains | 15.43 |
| | joules/cm | 9.807×10^{-5} |
| | joules/meter (newtons) | 9.807×10^{-3} |
| | kilograms | 0.001 |
| | milligrams | 1,000. |
| | ounces (avdp) | 0.03527 |
| | ounces (troy) | 0.03215 |
| | poundals | 0.07093 |
| | pounds | 2.205×10^{-3} |
| | grams/cm ³ | 5.600×10^{-3} |
| grams/cu cm | pounds/cu ft | 62.43 |
| | pounds/cu in | 0.03613 |
| | pounds/mil-foot | 3.405×10^{-7} |
| grams/liter | grains/gal | 58.417 |
| | pounds/1,000 gal | 8.345 |
| | pounds/cu ft | 0.062427 |
| | parts/million | 1,000.0 |
| grams/sq cm | pounds/sq ft | 2.0481 |
| gram-calories | Btu | 3.9683×10^{-3} |
| | ergs | 4.1868×10^7 |
| | foot-pounds | 3.0880 |
| | horsepower-hrs | 1.5596×10^{-6} |
| | kilowatt-hrs | 1.1630×10^{-6} |
| | watt-hrs | 1.1630×10^{-3} |
| gram-calories/sec | Btu/hr | 14.286 |
| gram-centimeters | Btu | 9.297×10^{-8} |
| | ergs | 980.7 |
| | joules | 9.807×10^{-5} |
| | kg-cal | 2.343×10^{-8} |
| | kg-meters | 10^{-5} |
| hectares | acres | 2.471 |
| | sq feet | 1.076×10^5 |
| hectograms | grams | 100.0 |
| hectoliters | liters | 100.0 |
| hectometers | meters | 100.0 |
| hectowatts | watts | 100.0 |
| henries | millihenries | 1,000.0 |
| horsepower | Btu/min | 42.44 |
| | foot-tbs/min | 33,000. |
| | foot-lbs/sec | 550.0 |

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| TO CONVERT | INTO | MULTIPLY BY |
|---------------------------------|--|----------------------------|
| horsepower (metric) | horsepower (542.5 ft lb/sec) | 0.9863 (550 ft lb/sec) |
| horsepower | horsepower (metric) (550 ft lb/sec) | 1.014 (542.5 ft lb/sec) |
| horsepower | kg-calories/min | 10.68 |
| | kilowatts | 0.7457 |
| | watts | 745.7 |
| horsepower (boiler) | Btu/hr | 33.479 |
| | kilowatts | 9.803 |
| horsepower-hrs | Btu | 2,547. |
| | ergs | 2.6845×10^{13} |
| | foot-lbs | 1.98×10^6 |
| | gram-calories | 641,190. |
| | joules | 2.684×10^6 |
| | kg-calories | 641.1 |
| | kg-meters | 2.737×10^5 |
| | kilowatt-hrs | 0.7457 |
| hours | days | 4.167×10^{-2} |
| | minutes | 60.0 |
| | seconds | 3,600.0 |
| hours | weeks | 5.952×10^{-3} |
| inches | centimeters | 2.540 |
| | feet | 8.333×10^{-2} |
| | meters | 2.540×10^{-2} |
| | miles | 1.578×10^{-5} |
| | millimeters | 25.40 |
| | mils | 1,000.0 |
| | yards | 2.778×10^{-2} |
| inches of mercury | atmospheres | 0.03342 |
| | feet of water | 1.133 |
| | kgs/sq cm | 0.03453 |
| | kgs/sq meter | 345.3 |
| | pounds/sq ft | 70.73 |
| | pounds/se in. | 0.4912 |
| inches of water (at 4 deg.C) | atmospheres | 2.458×10^{-3} |
| | inches of mercury | 0.07355 |
| | kgs/sq cm | 2.540×10^{-3} |
| | ounces/sq in. | 0.5781 |
| | pounds/sq ft | 5.204 |
| | pounds/sq in. | 0.03613 |
| joules | Btu | 9.480×10^{-4} |
| | ergs | 10^7 |
| | foot-pounds | 0.7376 |
| | kg-calories | 2.389×10^{-4} |
| | kg-meters | 0.1020 |

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| TO CONVERT | INTO | MULTIPLY BY |
|--------------------|------------------------|-------------------------|
| joules | newton meter | 1 |
| | watt-hrs | 2.778×10^{-4} |
| joules/cm | grams | 1.020×10^4 |
| | dynes | 10^7 |
| | joules/meter (newtons) | 100.0 |
| joules/cm | poundals | 723.3 |
| | pounds | 22.48 |
| kilograms | dynes | 980,665. |
| | grams | 1,000.0 |
| | joules/cm | 0.09807 |
| | joules/meter (newtons) | 9.807 |
| | poundals | 70.93 |
| | pounds | 2.205 |
| | tons (long) | 9.842×10^{-4} |
| | tons (short) | 1.102×10^{-3} |
| kilograms (force) | newtons | 9.80665 |
| kilograms/cu meter | grams/cu cm | 0.001 |
| | pounds/cu ft | 0.06243 |
| | pounds/cu in, | 3.613×10^{-5} |
| | pounds/mil-foot | 3.405×10^{-10} |
| kilograms/meter | pounds/ft | 0.6720 |
| kilograms/sq cm | atmospheres | 0.9678 |
| | feet of water | 32.81 |
| | inches of mercury | 28.96 |
| | pounds/sq ft | 2,048. |
| | pounds/sq in. | 14.22 |
| kilograms/sq meter | atmospheres | 9.678×10^{-5} |
| | bars | 98.07×10^{-6} |
| | feet of water | 3.281×10^{-3} |
| | inches of mercury | 2.896×10^{-3} |
| | pounds/sq ft | 0.2048 |
| | pounds/sq in. | 1.422×10^3 |
| kilograms/sq mm | kgs/sq meter | 106 |
| | kilogram-caloriesBtu | 3.968 |
| | foot-pounds | 3,088. |
| | hp-hrs | 1.560×10^{-3} |
| | joules | 4,186. |
| | kg-meters | 426.9 |
| | kilojoules | 4186 |
| | kilowatt-hrs | 1.163×10^{-3} |
| kilogram meters | Btu | 9.294×10^{-3} |
| | ergs | 9.804×10^7 |
| | foot-pounds | 7.233 |
| | foot-in. | 86.51102 |
| | joules | 9.804 |
| | kg-calories | 2.342×10^{-3} |
| | kilowatt-hrs | 2.723×10^{-6} |
| kilolines | maxwells | 1,000.0 |

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| TO CONVERT | INTO | MULTIPLY BY | |
|---|-------------------|-------------------------|--------------------------|
| kiloliters | liters | 1,000.0 | |
| | miles | 0.6214 | |
| kilometers | centimeters | 10 ⁵ | |
| | feet | 3,281. | |
| | inches | 3.937 x 10 ⁴ | |
| | meters | 1,000.0 | |
| | millimeters | 10 ⁶ | |
| | yards | 1,094. | |
| kilometers/hr | cms/sec | 27.78 | |
| | feet/min | 54.68 | |
| | feet/sec | 0.9113 | |
| | knots | 0.5396 | |
| | meters/min | 16.67 | |
| | miles/hr | 0.6214 | |
| | cms/sec/sec | 27.78 | |
| kilometers/hr/sec | ft/sec/sec | 0.9113 | |
| | metars/sec/sec | 0.2778 | |
| | miles/hr/sec | 0.6214 | |
| | Btu/min | 56.92 | |
| kilowatts | foot-lbs/min | 4.426 x 10 ⁴ | |
| | foot-tbs/sec | 737.6 | |
| | horsepower | 1.341 | |
| | kg-calories/min | 14.34 | |
| | watts | 1,000.0 | |
| | kilowatt-hrs | Btu | 3,413. |
| | | ergs | 3.600 x 10 ¹³ |
| foot-lbs | | 2.655 x 10 ⁶ | |
| gram-calories | | 859,850. | |
| horsepower-hrs | | 1.341 | |
| joules | | 3.6 x 10 ⁶ | |
| kg-calories | | 859.85 | |
| kg-meters | | 3.671 x 10 ⁵ | |
| pounds of water evaporated from and at 212 deg.F. | | 3.53 | |
| pounds of water raised from 62 deg. to 212 deg.F. | | 22.75 | |
| knots | | feet/hr | 6,080. |
| | kilomaters/hr | 1.8532 | |
| | nautical miles/hr | 1.0 | |
| | statute miles/hr | 1.151 | |
| | yards/hr | 2,027. | |
| | feet/sec | 1.689 | |
| | feet/min. | 101.34 | |
| league | miles (approx.) | 3.0 | |

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|--------------------|---------------------|------------------------|
| lines/sq cm | gausses | 1.0 |
| lines/sq in, | gausses | 0.1550 |
| lines/sq in. | webers/sq cm | 1.550×10^{-9} |
| | webers/sq in. | 10^{-8} |
| | webers/sq meter | 1.550×10^{-5} |
| links (engineer's) | inches | 12.0 |
| links (surveyor's) | inches | 7.92 |
| liters | bushels (U.S. dry) | 0.02838 |
| | cu cm | 1,000.0 |
| | cu feet | 0.03531 |
| | cu inches | 61.02 |
| | cu meters | 0.001 |
| | cu yards | 1.308×10^{-3} |
| | gallons (U.S. liq.) | 0.2642 |
| | gallons (imperial) | 0.21997 |
| | pints (U.S. liq.) | 2.113 |
| | quarts (U.S. liq.) | 1.057 |
| liters/min | cu ft/sec | 5.886×10^{-4} |
| | gals/sec | 4.403×10^{-3} |
| lumens/sq ft | foot-candles | 1.0 |
| lux | foot-candles | 0.0929 |
| m ² | ft ² | 10.765 |
| maxwells | kilolines | 0.001 |
| | webors | 10^{-8} |
| megalines | maxwells | 10^6 |
| megohms | microhms | 10^{12} |
| | ohms | 10^6 |
| meters | centimeters | 100.0 |
| | feet | 3.281 |
| | inches | 39.37 |
| | kilometers | 0.001 |
| | miles (naut.) | 5.396×10^{-4} |
| | miles (stat.) | 6.214×10^{-4} |
| | millimeters | 1,000.0 |
| | yards | 1.094 |
| | varas | 1.179 |
| meters/min | cms/sec | 1.667 |
| | feet/min | 3.281 |
| | feet/sec | 0.05468 |
| | kms/hr | 0.06 |
| | knots | 0.03238 |
| | miles/hr | 0.03728 |
| meters/sec | feet/min | 196.8 |
| | feet/sec | 3.281 |
| | kilometers/hr | 3.6 |
| | kilometers/min | 0.06 |
| | miles/hr | 2.237 |
| | miles/min | 0.03728 |

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| TO CONVERT | INTO | MULTIPLY BY | |
|------------------|-------------------|--------------------------|-------|
| meters/sec/sec | cms/sec/sec | 100.0 | |
| | ft/sec/sec | 3.281 | |
| | kms/hr/sec | 3.6 | |
| | miles/hr/sec | 2.237 | |
| | pound-feet | 7.233 | |
| microfarad | farads | 10 ⁻⁶ | |
| meter- kilograms | cm-dynes | 9.807 x 10 ⁷ | |
| | cm-grams | 10 ⁵ | |
| micrograms | grams | 10 ⁻⁶ | |
| microhms | megohms | 10 ⁻¹² | |
| | ohms | 10 ⁻⁶ | |
| microliters | liters | 10 ⁻⁶ | |
| miles (naut.) | feet | 6,076103 | |
| | kilometers | 1.852 | |
| | meters | 1,852. | |
| | miles (statute) | 1.1508 | |
| | yards | 2,025.4 | |
| miles (statute) | centimeters | 1.609 x 10 ⁵ | |
| | feet | 5,280. | |
| | inches | 6.336 x 10 ⁴ | |
| | kilometers | 1.609 | |
| | meters | 1,609. | |
| | miles (naut.) | 0.8684 | |
| | yards | 1,760. | |
| miles/hr | cms/sec | 44.70 | |
| | feet/min | 88. | |
| | feet/sec | 1.467 | |
| | kms/hr | 1.609 | |
| | kms/min | 0.02682 | |
| | knots | 0.8684 | |
| | meters/min | 26.82 | |
| | miles/min | 0.01667 | |
| | miles/hr/sec | cms/sec/sec | 44.70 |
| | | feet/sec/sec | 1.467 |
| kms/hr/sec | | 1.609 | |
| meters/sec/sec | | 0.4470 | |
| miles/min | cms/sec | 2,682. | |
| | feet/sec | 88. | |
| | kms/min | 1.609 | |
| | miles (naut.)/min | 0.8684 | |
| | miles/hr | 60.0 | |
| | mil-feetcu inches | 9.425 x 10 ⁻⁶ | |
| | millierskilograms | 1,000. | |
| milligrams | grams | 0.001 | |
| milligrams/liter | parts/million | 1.0 | |
| millihenries | henries | 0.001 | |
| milliliters | liters | 0.001 | |
| Millimeters | centimeters | 0.1 | |

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| TO CONVERT | INTO | MULTIPLY BY | |
|---------------------|--------------------|-------------------------|------------------------|
| Millimeters | feet | 3.281×10^{-3} | |
| | inches | 0.03937 | |
| | kilometers | 10^{-6} | |
| | meters | 0.001 | |
| | miles | 6.214×10^{-7} | |
| | mils | 39.37 | |
| | yards | 1.094×10^{-3} | |
| | million gals/day | cu ft/sec | 1.54723 |
| | mils | centimeters | 2.540×10^{-3} |
| | | feet | 8.333×10^{-5} |
| inches | | 0.001 | |
| kilometers | | 2.540×10^{-8} | |
| yards | | 2.778×10^{-5} | |
| miner's inches | cu ft/min | 1.5 | |
| minutes (angles) | degrees | 0.01667 | |
| | quadrants | 1.852×10^{-4} | |
| | radians | 2.909×10^{-4} | |
| | seconds | 60.0 | |
| | myriagrams | kilograms | 10.0 |
| myriameters | kilometers | 10.0 | |
| myriawatts | kilowatts | 10.0 | |
| nepers | decibels | 8.686 | |
| newtons | dynes | 10^5 | |
| | kilograms (force) | 0.10197162 | |
| | pounds (force) | 0.046246 | |
| | megohms | 10^{-6} | |
| | ohms | microhms | 10^6 |
| | ohms | drams | 16.0 |
| grains | | 437.5 | |
| grams | | 28.349527 | |
| pounds | | 0.0625 | |
| ounces (troy) | | 0.9115 | |
| tons (long) | | 2.790×10^{-5} | |
| tons (metric) | | 2.835×10^{-5} | |
| ounces (fluid) | | cu inches | 1.805 |
| | | liters | 0.02957 |
| ounces (troy) | | grains | 480.0 |
| | | grams | 31.103481 |
| | | ounces (avdp.) | 1.09714 |
| | | pennyweights (troy) | 20.0 |
| | pounds (troy) | 0.08333 | |
| | pounds/sq in. | 0.0625 | |
| parts/million | grains/U.S. gal | 0.0584 | |
| | grains/lmp. gal | 0.07016 | |
| | pounds/million gal | 8.345 | |
| | pascal | newton/sq meter | 1 |
| pennyweights (troy) | kilograms/sq cm | 1.0197×10^{-5} | |
| | grains | 24.0 | |

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| TO CONVERT | INTO | MULTIPLY BY |
|---------------------|------------------------|--------------------------|
| ounces (troy) | 0.05 | |
| | grams | 1.55517 |
| | pounds (troy) | 4.1667×10^{-3} |
| pints (dry) | cu inches | 33.60 |
| pints (liq.) | cu cms. | 473.2 |
| | cu feet | 0.01671 |
| | cu inches | 28.87 |
| | cu meters | 4.732×10^{-4} |
| pints (liq.) | cu yards | 6.189×10^{-4} |
| | gallons | 0.125 |
| | liters | 0.4732 |
| | quarts (liq.) | 0.5 |
| poundals | dynes | 13,826. |
| | grams | 14.10 |
| | joules/cm | 1.383×10^{-3} |
| | joules/meter (newtons) | 0.1383 |
| | kilograms | 0.01410 |
| | pounds | 0.03108 |
| pounds | drams | 256. |
| | dynes | 44.4823×10^{-4} |
| | grains | 7,000. |
| | grams | 453.5924 |
| | joules/cm | 0.04448 |
| | joules/meter (newtons) | 4.448 |
| | kilograms | 0.4536 |
| | ounces | 16.0 |
| | ounces (troy) | 14.5833 |
| | poundals | 32.17 |
| | pounds (troy) | 1.21528 |
| | tons (short) | 0.0005 |
| pounds (troy) | grains | 5,760. |
| | grams | 373.24177 |
| | ounces (avdp.) | 13.1657 |
| | ounces (troy) | 12.0 |
| | pennyweights (troy) | 240.0 |
| | pounds (avdp.) | 0.822857 |
| | tons (long) | 3.6735×10^{-4} |
| | tons (metric) | 3.7324×10^{-4} |
| | tons (short) | 4.1143×10^{-4} |
| pounds (force) | newtons | 21.6237 |
| pounds of water | cu feet | 0.01602 |
| | cu inches | 27.68 |
| | gallons | 0.1198 |
| pounds of water/min | cu ft/sec | 2.670×10^{-4} |
| pound-feet | cm-dynes | 1.356×10^7 |
| | cm-grams | 13,825. |
| | meter-kgs | 0.1383 |

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| TO CONVERT | INTO | MULTIPLY BY |
|-------------------|-------------------|------------------------|
| pounds/cu ft | grams/cu cm | 0.01602 |
| | kgs/cu meter | 16.02 |
| pounds/cu in. | pounds/cu in. | 5.787×10^{-4} |
| | pounds/mil-foot | 5.456×10^{-9} |
| | gms/cu cm | 27.68 |
| | kgs/cu meter | 2.768×10^4 |
| | pounds/cu ft | 1,728. |
| pounds/ft | pounds/mil-foot | 9.425×10^{-6} |
| | kgs/meter | 1.488 |
| pounds/in. | gms/cm | 178.6 |
| pounds/mil-foot | gms/cu cm | 2.306×10^6 |
| pounds/sq ft | atmospheres | 4.725×10^{-4} |
| | feet of water | 0.01602 |
| | inches of mercury | 0.01414 |
| | kgs/sq meter | 4.882 |
| | pounds/sq in. | 6.944×10^{-3} |
| | atmospheres | 0.06804 |
| | feet of water | 2.307 |
| | inches of mercury | 2.036 |
| | kgs/sq meter | 703.1 |
| | pounds/sq ft | 144.0 |
| quadrants (angle) | bar | 0.068966 |
| | degrees | 90.0 |
| | minutes | 5,400.0 |
| | radians | 1.571 |
| | seconds | 3.24×10^5 |
| quarts (dry) | cu inches | 67.20 |
| quarts (liq.) | cu cms | 946.4 |
| | cu feet | 0.03342 |
| | cu inches | 57.75 |
| | cu meters | 9.464×10^{-4} |
| | cu yards | 1.238×10^{-3} |
| | gallons | 0.25 |
| | liters | 0.9463 |
| | radians | degrees |
| minutes | | 3,438. |
| quadrants | | 0.6366 |
| seconds | | 2.063×10^5 |
| radians/sec | degrees/sec | 57.30 |
| | revolutions/min | 9.549 |
| radians/sec/sec | revolutions/sec | 0.1592 |
| | revs/min/min | 573.0 |
| | revs/min/sec | 9.549 |
| revolutions | revs/sec/sec | 0.1592 |
| | degrees | 360.0 |
| | quadrants | 4.0 |
| | radians | 6.283 |

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| TO CONVERT | INTO | MULTIPLY BY |
|---------------------|-----------------|-------------------------|
| revolutions/min | degrees/sec | 6.0 |
| | radians/sec | 0.1047 |
| | revs/sec | 0.01667 |
| revolutions/min/min | radians/sec/sec | 1.745×10^{-3} |
| | revs/min/sec | 0.01667 |
| | revs/sec/sec | 2.778×10^{-4} |
| revolutions/sec | degrees/sec | 360.0 |
| | radians/sec | 6.283 |
| | revs/min | 60.0 |
| revolutions/sec/sec | radians/sec/sec | 6.283 |
| revolutions/sec/sec | revs/min/min | 3,600.0 |
| | revs/min/sec | 60.0 |
| rods | feet | 16.5 |
| seconds (angle) | degrees | 2.778×10^{-4} |
| | minutes | 0.01667 |
| | quadrants | 3.087×10^{-6} |
| square centimeters | radians | 4.848×10^{-6} |
| | circular mils | 1.973×10^5 |
| | sq feet | 1.076×10^{-3} |
| | sq inches | 0.1550 |
| | sq meters | 0.0001 |
| | sq miles | 3.861×10^{-11} |
| | sq millimeters | 100.0 |
| | sq yards | 1.196×10^{-4} |
| square feet | acres | 2.296×10^{-5} |
| | circular mils | 1.833×10^8 |
| | sq cms | 929.0 |
| | sq inches | 144.0 |
| | sq meters | 0.09290 |
| | sq miles | 3.587×10^{-8} |
| | sq millimeters | 9.290×10^4 |
| | sq yards | 0.1111 |
| square inches | circular mils | 1.273×10^6 |
| | sq cms | 6.452 |
| | sq feet | 6.944×10^{-3} |
| | sq millimeters | 645.2 |
| | sq mils | 10^6 |
| square kilometers | sq yards | 7.716×10^{-4} |
| | acres | 247.1 |
| | sq cms | 10^{10} |
| | sq ft | 10.76×10^6 |
| | sq inches | 1.550×10^9 |
| | sq meters | 10^6 |
| | sq miles | 0.3861 |
| square meters | sq yards | 1.196×10^6 |
| | acres | 2.471×10^{-4} |
| | sq cms | 10^4 |

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| TO CONVERT | INTO | MULTIPLY BY |
|--------------------------------|----------------------------------|------------------------|
| so feet | 10.76 | |
| | sq inches | 1,550. |
| | sq miles | 3.861×10^{-7} |
| | sq millimeters | 10^6 |
| | sq yards | 1.196 |
| square miles | acres | 640.0 |
| | sq feet | 27.88×10^6 |
| | sq kms | 2.590 |
| | sc meters | 2.590×10^6 |
| | sq yards | 3.098×10^6 |
| square millimeters | circular mils | 1,973. |
| square millimeters | sq cms | 0.01 |
| | sq feet | 1.076×10^{-5} |
| | sq inches | 1.550×10^{-3} |
| square mils | circular mils | 1.273 |
| | sq cms | 6.452×10^{-6} |
| | sq inches | 10^6 |
| square yards | acres | 2.066×10^{-4} |
| | sq cms | 8,361. |
| | sq feet | 9.0 |
| | sq inches | 1,296. |
| | sq meters | 0.8361 |
| | sq miles | 3.228×10^{-7} |
| | sq millimeters | 8.361×10^5 |
| stone | kg | 6.35 |
| temperature (deg.C) +273 | absolute temperature (deg. C) | 1.0 |
| temperature (deg. C) +17.78 | temperature (deg. F) | 1.8 |
| temperature (deg. F)+460 | absolute temperature (deg. F) | 1.0 |
| temperature (deg. F)-32 | temperature(deg. C) | 5/9 |
| tons (long) | kilograms | 1,016. |
| | pounds | 2,240. |
| | tons (short) | 1.120 |
| tons (metric) | kilograms | 1,000. |
| | pounds | 2,205. |
| tons (short) | kilograms | 907.1 848 |
| | ounces | 32,000. |
| | ounces (troy) | 29,1 66.66 |
| | pounds | 2,000. |
| | pounds !troy) | 2,430.56 |
| | tons (long) | 0.89287 |
| | tons (metric) | 0.9078 |
| tons (short)/sq ft | kgs/sq meter | 9,765. |
| | pounds/sq in. | 2,000. |

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| TO CONVERT | INTO | MULTIPLY BY |
|---------------------|---------------------|------------------------|
| tons of water/24hrs | pounds of water/hr | 83.333 |
| | gallons/min | 0.16643 |
| | cu ft/hr | 1.3349 |
| watts | Btu/hr | 3.413 |
| | Btu/min | 0.05688 |
| | ergs/sec | 10^7 |
| | foot-lbs/min | 44.27 |
| | foot-lbs/soc | 0.7378 |
| | horsepower | 1.341×10^{-3} |
| | horsepower (metric) | 1.360×10^{-3} |
| | kg-calories/min | 0.01433 |
| | kilowatts | 0.001 |
| watt-hours | Btu | 3.413 |
| | ergs | 3.60×10^{10} |
| | foot-pounds | 2,656. |
| | gram-calories | 859.85 |
| | horsepower-hrs | 1.341×10^{-3} |
| | kilogram-calories | 0.8598 |
| | kilogram-meters | 367.2 |
| | kilowatt-hrs | 0.001 |
| | maxwells | 10^8 |
| webers/sq in. | kilolines | 10^5 |
| | gausses | 1.550×10^7 |
| | lines/sri in. | 10^8 |
| webers/sq meter | webers/sq cm | 0.1550 |
| | webers/sq meter | 1,550. |
| | gausses | 10^4 |
| | lines/sq in. | 6.452×10^4 |
| | webers/sq cm | 10^{-4} |
| yards | webers/sq in. | 6.452×10^{-4} |
| | centimeters | 91.49 |
| | feet | 3.0 |
| | inches | 36.0 |
| | kilometers | 9.144×10^{-4} |
| | meters | 0.9144 |
| | miles (naut.) | 4.934×10^{-4} |
| | miles (stat.) | 5.682×10^{-4} |
| | millimeters | 914.4 |

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