

Useful Unit Conversions

VOLUME

1 acre-ft=0.504 cfs-day=325,851 gallons=43,560 cubic ft=1233 cubic meters
1 US gallon = 0.1337 cubic ft = 3.79 liters = 0.833 imperial gallons
1 cfs-day = 1.983 acre feet = 646,320 gallons = 2447 cubic meters
1 million gallons = 3.07 acre-feet = 1.547 cfs-days
1 cubic meter = 35.3 cubic feet = 264 gallons = 1000 liters

FLOW RATES

1 cfs = 1.983 acre-feet/day = 449 gallons/minute = 0.646 million gallons/day
1gallon/minute(gpm)=1.61 acre-ft/year=1440gallons/day=0.0631 liters/second
1 million gallons/day = 694 gallons/minute = 1.547 cfs = 1120 acre-ft/year

MISCELLANEOUS CONVERSIONS

Length	1 mile = 5280 feet = 1.609 kilometers = 320 rods
Area	1 acre = 43,560 square feet = 0.4047 hectares 1 square mile=640 acres=259 hectares=2.5 sq.kilometers
Pressure	1 psi = 2.31 ft. water = 0.68 atmospheres = 2.04 in.mercury
Flow Rate	1 cfs = 38.4 miner's inches (CO) 1 cfs = 40 miner's inches (AZ, CA, NV, OR) 1 cfs = 50 miner's inches (ID, KS, NE, NM, ND, SD, UT)
Power	1 horsepower = 550 foot-pound/second = .7457 Kilowatts
Energy/Area	1 langley = 1 calorie/square centimeter
Concentration	1 milligram/liter = 1 part/million(<7000mg/l) = 8.35 lbs/MG
Permeability	1 gallon/day/square foot = 0.1337 feet/day
Velocity	1 ft/second = 86,400 ft/day = .6818 mph = 1.097 kilmtrs/hr.
Temperature	F = 9/5 C+32:K = C+273.15:R = F+459.67
Volume	1 barrel(oil) = 42 gallons = 5.615 cubic feet
Weight	1 cubic foot water = 62.4 pounds @ 60 F