

CONVERSION CHARTS

VOLUME

1728 CUBIC INCHES	1 CUBIC FOOT
231 CUBIC INCHES	1 GALLON
27 CUBIC FEET	1 CUBIC YARD
1 CUBIC FOOT	7.48052 GALLONS (US)
1 CUBIC YARD	202 GALLONS (US)
4 QUARTS	3.75 LITERS
1 GALLON	3.785 LITERS
1 GALLON	.00379 CUBIC METERS
1 GALLON	.833 IMPERIAL GALLONS
27,154 GALLONS	1 ACRE INCH
325,851 GALLONS	1 ACRE FOOT
1,000,000 GALLONS	3.0889 ACRE FEET
1 ACRE FOOT	43,560 CUBIC FEET

FLOWS

1 GALLON PER MINUTE (US)	.002228 CU. FT. PER SECOND
1 GALLON PER MINUTE (US)	.13368 CU. FT. PER MINUTE
1 GALLON PER MINUTE (US)	8.0208 CU. FT. PER HOUR
1 GALLON PER MINUTE (US)	.06309 LITERS PER SECOND
1 GALLON PER MINUTE (US)	3.78533 LITERS PER MINUTE
1 CUBIC FOOT PER SECOND	448.83 GALLONS PER MINUTE
1 LITER PER SECOND	15.85 GALLONS PER MINUTE
1 CUBIC METER PER MINUTE	664.2 GALLONS PER MINUTE
1 ACRE INCH PER HOUR	452.57 GALLONS PER MINUTE
1 ACRE FOOT PER DAY	226.3 GALLONS PER MINUTE
1,000,000 GALLONS PER DAY	694.4 GALLONS PER MINUTE
1 CUBIC FOOT PER SECOND	.992 ACRE INCHES PER HOUR
1 GALLON PER MINUTE (US)	1 MINERS INCH

POWER

$$\text{HORSE POWER} = \frac{\text{GPM} \times \text{TOTAL HEAD (FT.)}}{3960 \times \text{PUMP EFFICIENCY}}$$

$$\text{PUMP EFFICIENCY} = \frac{\text{GPM} \times \text{TOTAL HEAD (FT.)}}{3960 \times \text{BHP TO PUMP}}$$

1 HORSE POWER	33,000 FT. LBS. PER MINUTE
1 HORSE POWER	746 WATTS
1 HORSE POWER	.746 KILOWATTS

WEIGHTS

1 US GALLON (WATER)	8.3357 POUNDS
1 CU. FT. (WATER)	62.3554 POUNDS

PRESSURES

1 ATMOSPHERE	14.6963 LBS. PER SQ. INCH
1 LB. PER SQ. INCH	2.31 FEET OF HEAD
1 FOOT OF HEAD	.433 LBS. PER SQ. INCH
1 FOOT OF WATER	62.3554 LBS. PER SQ. FOOT