

Water & Wastewater Math Formula Sheet

Math Conversions

Volume Conversions

1 cubic foot = 7.48 gallons

1 gallon = 3.785 liters

1 gallon = 4 quarts

1 cubic yard = 27 cubic feet

1 cubic meter = 35.3 cubic feet

1 liter = 1,000 milliliters

Volume of a Rectangle

Volume = Area x Height

$V = L \times W \times H$

Volume of Circles/Cylinders

Volume = Area x Height

$V = 0.785 \times D^2 \times H$

Volume of a Cone

Volume = Area x Height / 3

$V = 0.785 \times D^2 \times H / 3$

Area Conversions

1 square foot = 144 square inches 1 square yard = 9 square feet