

Calculating Rainfall Volumes

To calculate the volume of rainfall in cubic feet that falls in an average year on a specific catchment area, such as your roof, yard, neighborhood, or other subwatershed:

Catchment Area (sq. ft.) × Average Annual Rainfall (ft) = Total rainwater (cubic feet)

Rainfall in inches/12 = Average Annual Rainfall in feet

Convert cubic feet to gallons by multiplying your cubic foot figure by 7.48 gallons per cubic foot

Catchment Area (sq.ft.) × rainfall (ft.) × 7.48 gal/cubic ft. =Total Rainwater (gallons)

**Sample Problem: 2500 sq. ft. house
18 inches of rain per year typically**

What is the volume of water that could be captured?

Do the math here: