

# EARTHSMART Actions

## DIY Rain Gauge Data Sheet

### ACTUAL RAIN

Check your rain gauge daily and record how much rain you observe in inches.

Sun	Mon	Tues	Wed	Thur	Fri	Sat

How much rain fell this week? \_\_\_\_\_ inches

### THOUGHT EXPERIMENT

What do you think would happen if you put a 5-gallon bucket next to your rain gauge? Would they show the same measurement of rain? You can test this out on a rainy day.

### CALCULATE

How much rain falls on your roof each year? Let's calculate it.

1. Access Google Earth and find your house
2. Use the measuring tool on the left toolbar and measure the area for a part of your roof that would all drain to one area
3. Use the drop down to convert the measurement to square feet. This is your Roof Square Footage.
4. Find the average rainfall in your city using Google.
5. Calculate the rain harvesting potential of your roof:

**Roof Square Footage x the annual rainfall of your city x 0.623 (conversion factor to get gallons) = Total volume of rainwater in gallons**

\_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gallons

6. Name three ways you could use that water at home:

- 1.
- 2.
- 3.