



## Rain Barrel Registration and Assessment Form

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Please estimate the square footage of roof area that will drain toward your rain barrel: \_\_\_\_\_ (see reverse side)  
(This information is important for grant reporting purposes; thanks for helping)

- **Is your Downspout:** \_\_\_2x3"rectangular; \_\_\_2x4"rectangular; \_\_\_3"round; \_\_\_4"round
- **Number of Barrels:** Blue \$125 \_\_\_ includes in-line DIY installation kit

Not handy: The Village Green offers a special discounted installation fee of \$50 through this program.  
Please check here if you would like to speak with an installer\_\_\_\_\_

Free delivery to City of Lancaster residents !!

Make checks payable to the: Lancaster County Conservancy

**Mail registration to: Lancaster Conservancy, Attn: Urban Greening, PO Box 716, Lancaster PA 17608**

**Questions about Rain Barrels / Registration please contact  
Fritz Schroeder at [fschroeder@lancasterconservancy.org](mailto:fschroeder@lancasterconservancy.org) or call 717-392-7891 ext. 207**



### Blue Barrel

- 55-gallon capacity
- non removal lid
- 24" diameter x 35" height
- plastic full flow garden hose valve
- locally re-purposed food grade Barrel

## Assessment

Here are a few questions that can help assess if your location is ideal for a rain barrel.

- Do you have at least 50% permeable (non-paved) surface area on the lot?
- Are your gutters and downspouts in a suitable condition?
  - Is your downspout connected to the sewer or has it been disconnected ?
- Is there a place to discharge the overflow hose from the barrel onto grass or a planted area? Is it sloped away from the house?
- Is there a level surface for rain barrel installation? If no, can it be leveled with the use of a paver / shim?

It is easy to **calculate the quantity of rainfall that will be directed through your downspout** to your rain-barrel.

All you need is a tape measure and a calculator and to follow these simple steps:

- 1) Measure the area of your roof by measuring the length and width of your house (in feet, rounded off to the nearest whole foot) and multiply the numbers together.
- 2) Examine the roof area that drains toward each downspout that will be connected to your rain barrel and estimate what fraction of the roof area will feed your rain barrel. Whatever the configuration of your roof, gutters, and downspouts, you can estimate the percentage of the roof area that drains to the roof leader that feeds your rain barrel.
- 3) Multiply the roof area (in square feet) times the percentage of the roof draining toward the roof leader. Example 1,200 square feet (x) .25 (25%) = 300 square feet.  
*Example: The roof area draining to your rain-barrel is 300 square feet. A 1.0 inch storm will produce 187 gallons of rain water. A ½ inch storm will produce 94 gallons.*
- 4) See chart below to calculate amount of gallons of water harvested per storm.

**Lancaster County experiences an average yearly rainfall of approximately 42 inches with approximately 7 rain storms on average of over 1 inch and approximately 24 storms that produce a half-inch.**

Remember that it is not a bad thing for your rain barrel to overflow. The idea is for the rain barrel to capture and control a majority of the rainstorms. The largest and most intense storms may produce more rain volume than your rain barrel can store. That is why the rain barrels are equipped with 3 overflow holes. Make sure the overflows are directed away from the foundation of your home and away from the service lateral that connects your home to the public sewer system.

Roof area (in square-feet) draining to the downspout feeding your rain barrel

Total Storm depth	800	700	600	500	400	300
1.0 inch storm	499 gal	436 gal	374 gal	312 gal	249 gal	187 gal
.7 inch storm	349 gal	305 gal	262 gal	218 gal	174 gal	131 gal
.5 inch storm	249 gal	218 gal	187 gal	156 gal	125 gal	94 ga

**Questions about Rain Barrels / Registration please contact  
Fritz Schroeder at [fschroeder@lancasterconservancy.org](mailto:fschroeder@lancasterconservancy.org) or call 717-392-7891 ext. 207**