

RAIN BARREL PROGRAM

- Pilot project in 2002
 - Tacony-Frankford watershed
 - 215 barrels were distributed
- Present program began in 2006

Workshop Objectives

- Learn why we are promoting the use of rain barrels
- Learn about the impact we have on the water cycle
- Learn the benefits of using a rain barrel
- Learn how to use a rain barrel

Philadelphia Green Initiative

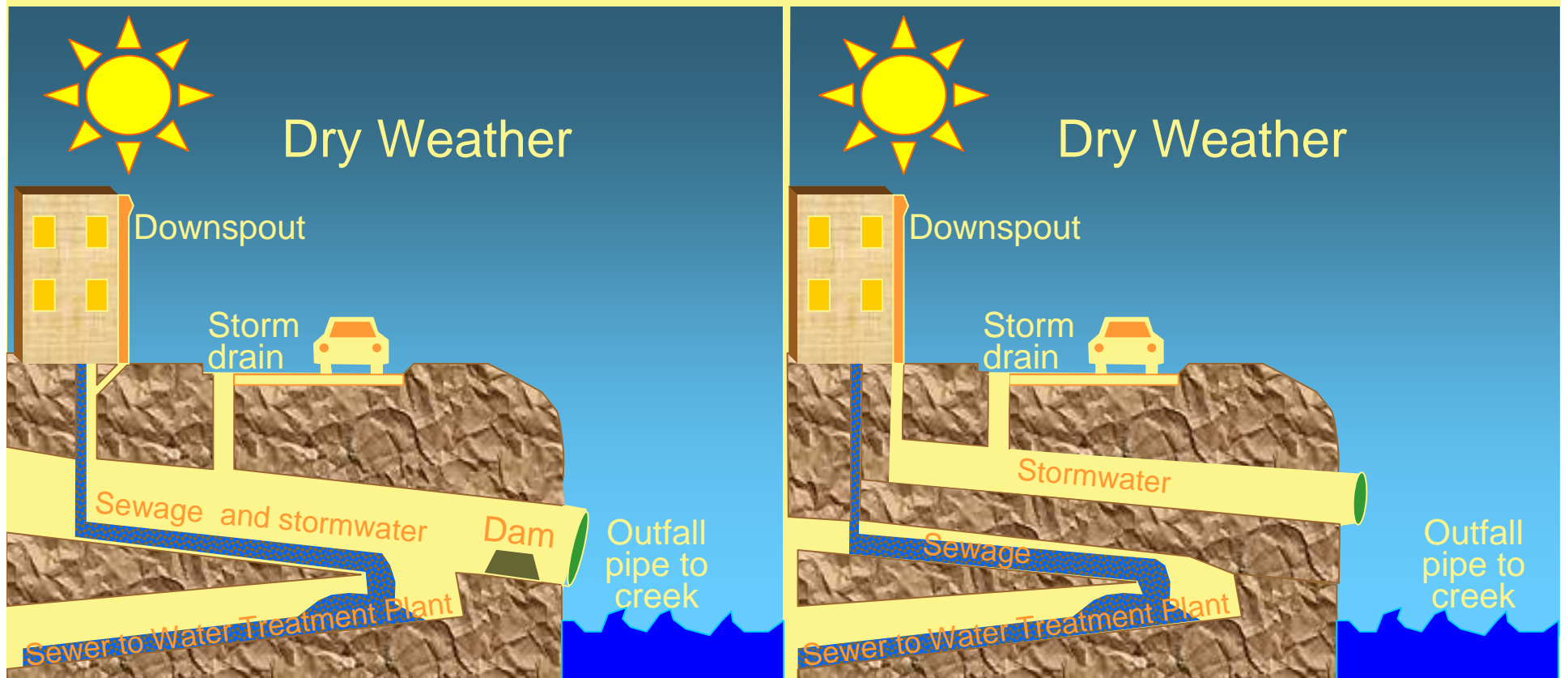


- The Rain Barrel Program is part of a larger initiative to green Philadelphia's watersheds.
- We can accomplish this goal through wise stormwater management.
- Rain barrels are a way of managing stormwater while at the same time providing an asset to members of the community.

Types of Sewers in Philadelphia

Combined Sewer

Separate Sewer

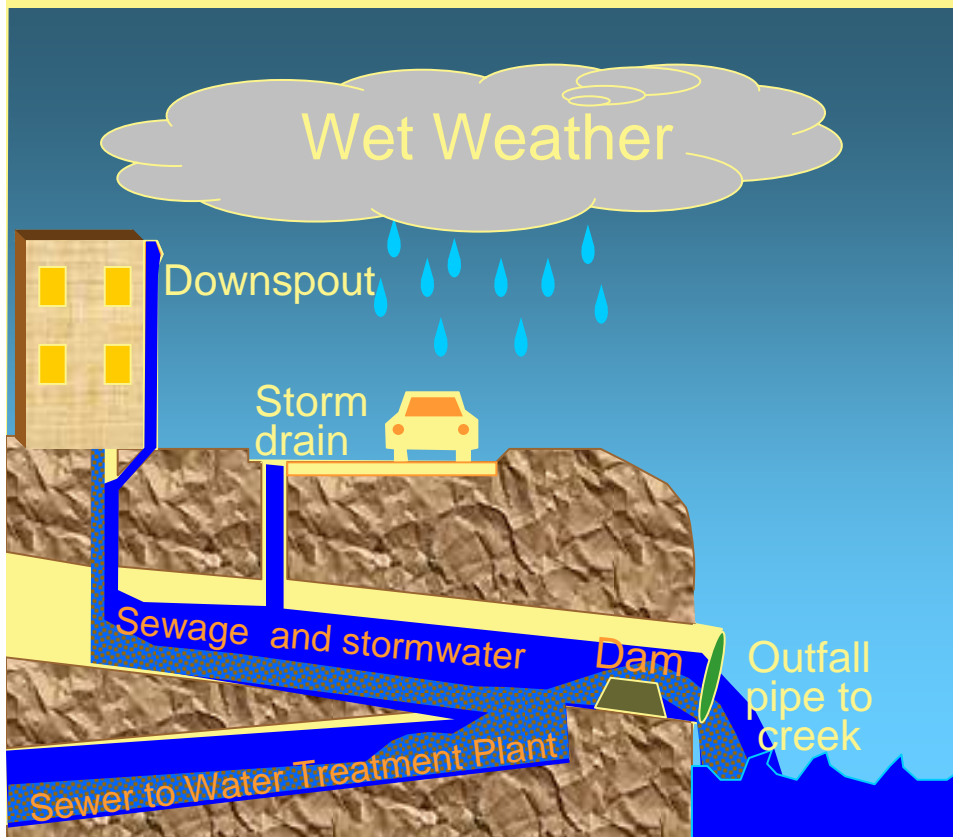


60% of Philadelphia

40% of Philadelphia

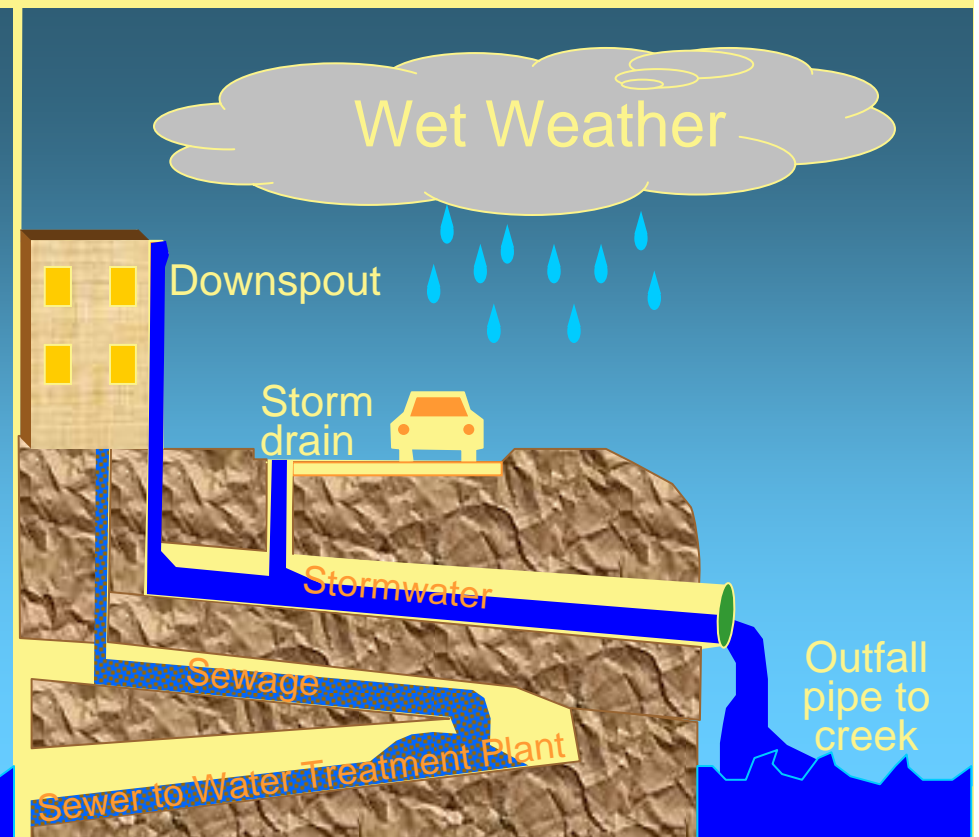
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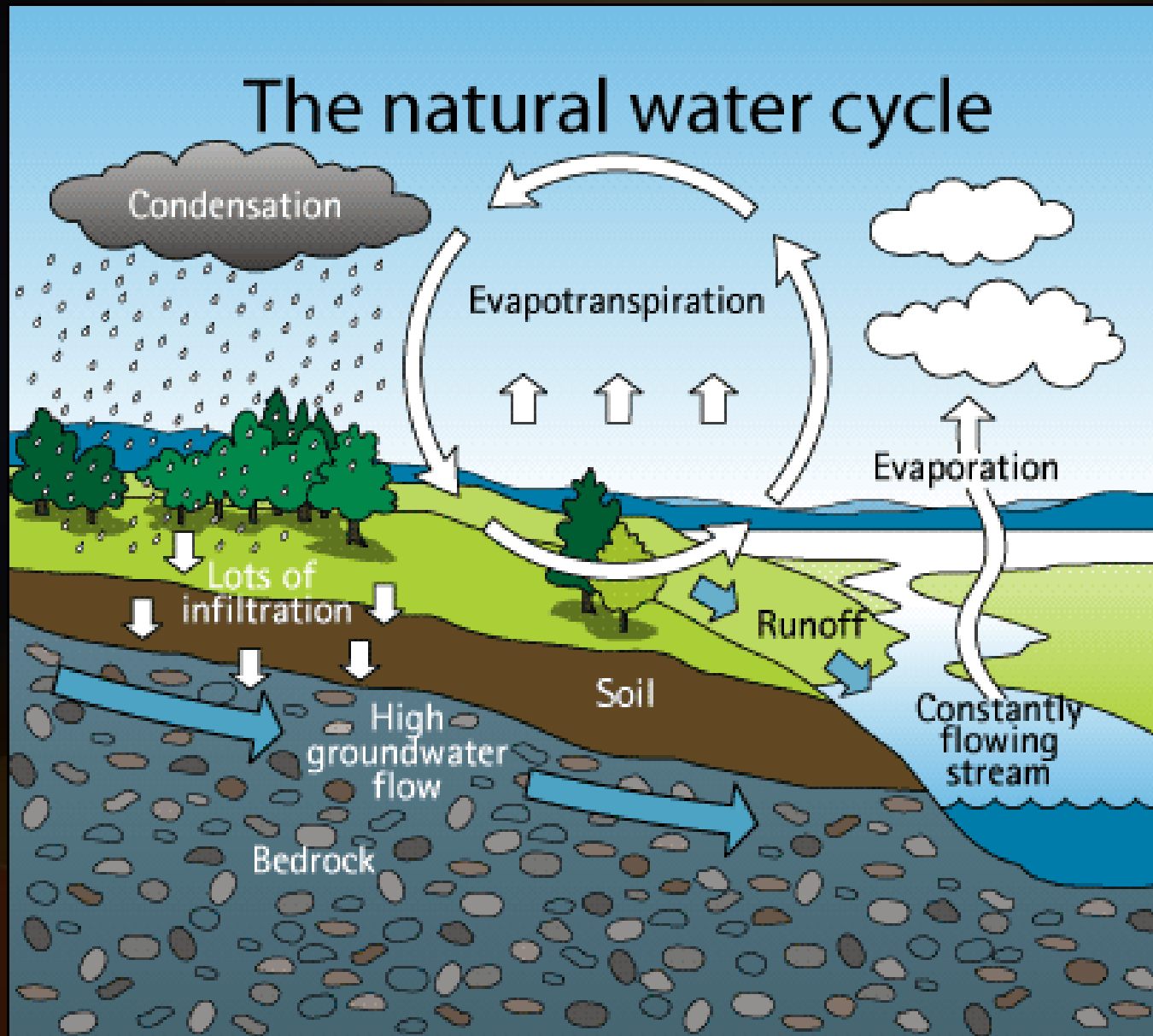
The Water Cycle

Natural Water Cycle

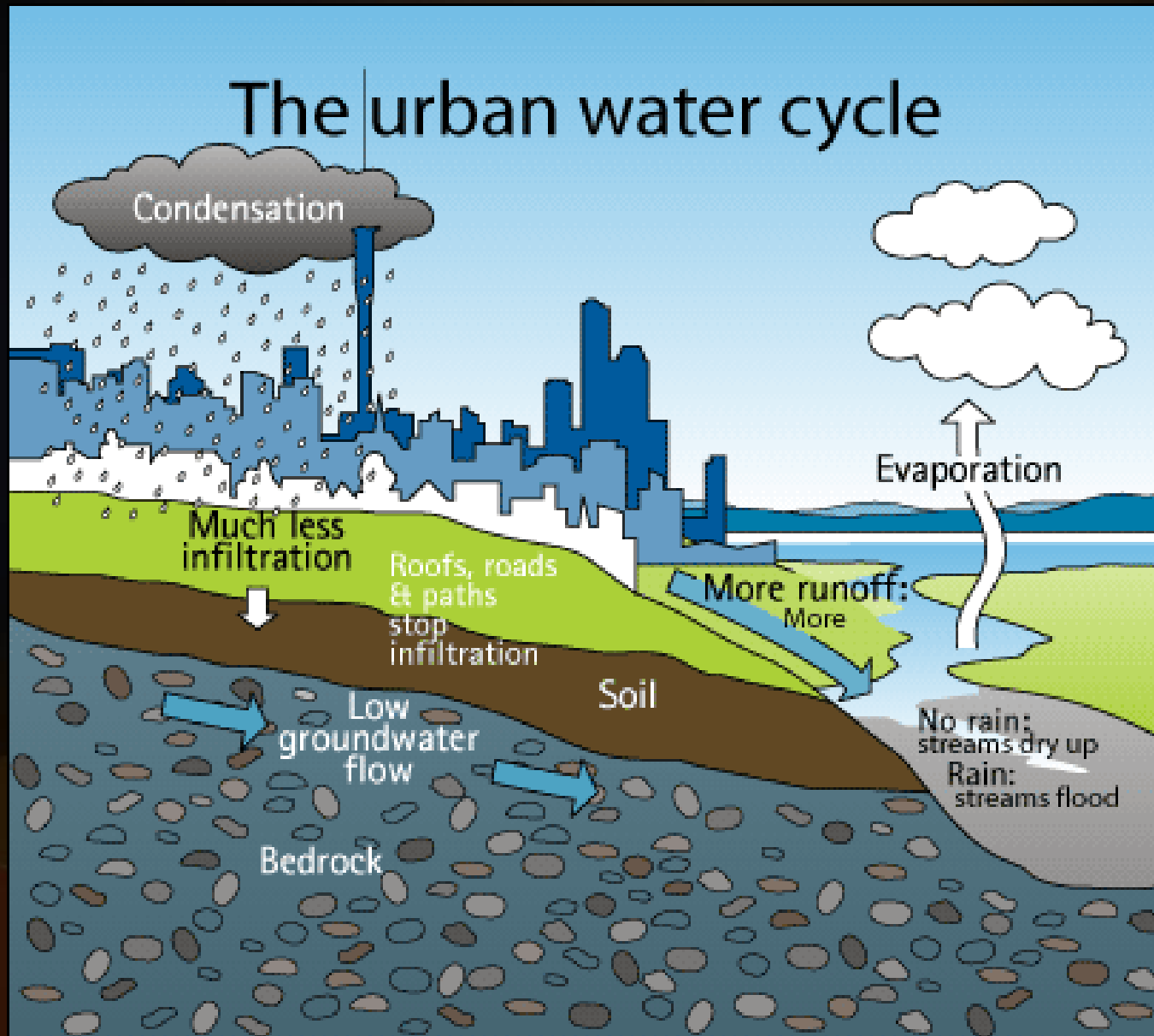
Urban Water Cycle

Re-establishing the Natural Water Cycle

Natural Water Cycle

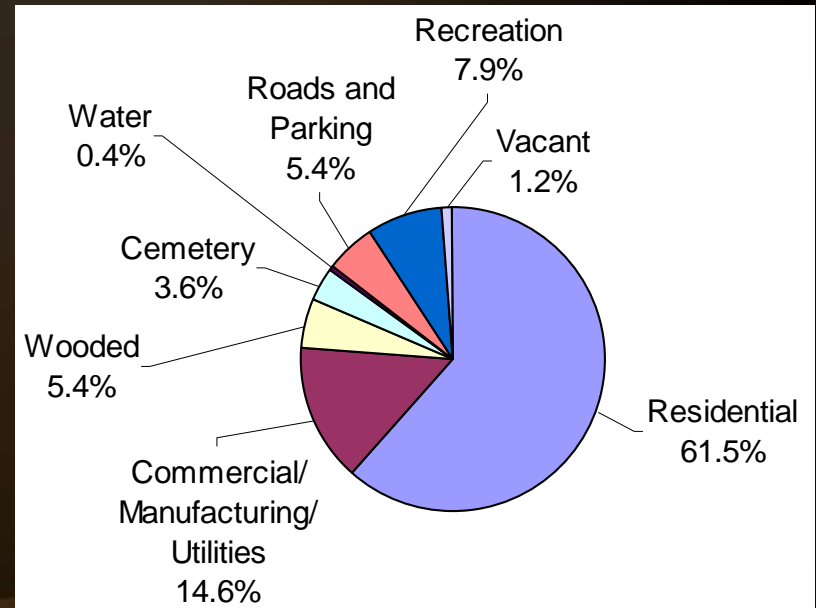


Urban Water Cycle



Watershed Land Use

Tacony - Frankford Watershed



The Tacony-Frankford Watershed is over 80% impervious cover

Re-establishing the Natural Water Cycle



- Rain Barrels
- Rain Gardens
- Tree Planting
- Vehicle Maintenance
- Lawn & Garden Care
- Pet Waste
- Winter De-Icing
- Container Gardens
- Creating a Wildflower Meadow



Save water intensive tasks for when it is not raining



Rain Barrels

Benefits - environmental

Benefits - personal

Potential Impact

Environmental Benefits

- Reduce stormwater runoff volumes
- Reduce combined sewer overflows
- Reduce stream bank erosion
- Increase water quality
- Restore suitable habitat



Personal Benefits



- Save money on your water bill
- Reduce neighborhood flooding and sewer backups



- Watering lawn
- Watering garden
- Washing car
- Water for compost pile
- Filling bird bath
- Watering indoor plants and potted deck plants
- Simply release the water before a storm

*Note - Water from rain barrels should NOT be used as drinking water

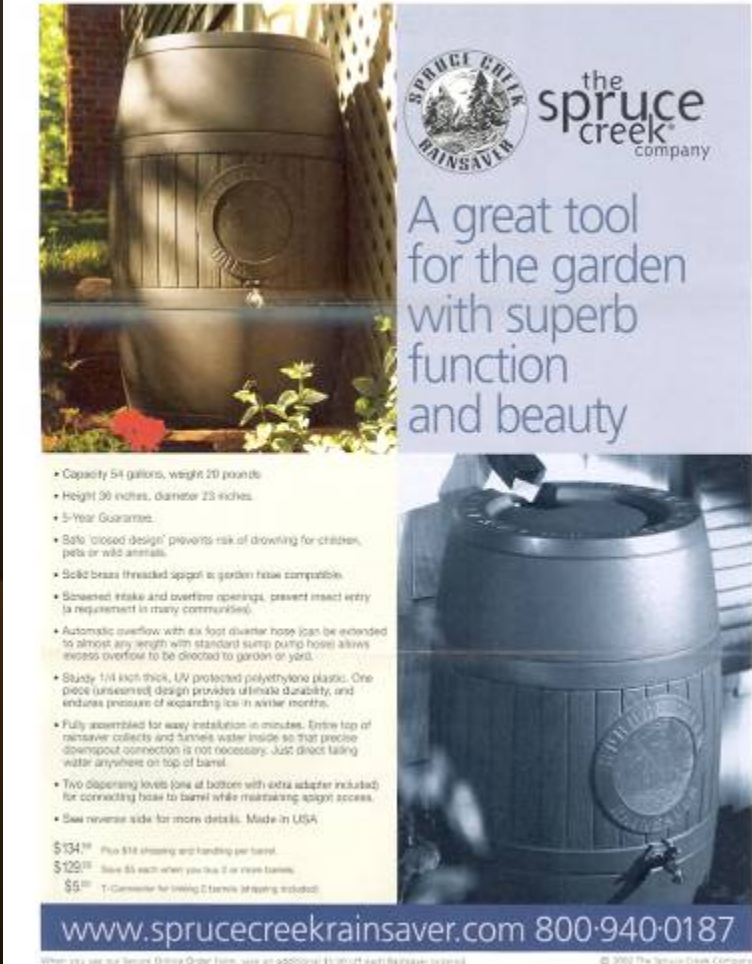


Rain Barrel Installation and Maintenance

Installation
Operation & Maintenance
Real Examples

Spruce Creek Rainsaver Rain Barrel

- Spruce Creek Rainsaver
 - Capacity of 54 gallons
 - Height 36" , diameter 23" , weight 20 lbs
 - 2 spigots, can fit hose
 - 1 faucet and 1 plug
 - Overflow hose
 - Screened intake prevents insects
 - Seamless construction/childproof lid
 - Made in the US
 - Small % of recycled plastic



the spruce creek company

A great tool for the garden with superb function and beauty

- Capacity 54 gallons, weight 20 pounds
- Height 36 inches, diameter 23 inches
- 5-Year Guarantee
- Safe "closed design" prevents risk of drowning for children, pets or wild animals
- Solid brass threaded spigot is garden hose compatible
- Screened intake and overflow openings, prevent insect entry (a requirement in many communities)
- Automatic overflow with six foot overflow hose (can be extended to almost any length with standard sump pump hose) allows excess overflow to be directed to garden or yard.
- Sturdy 1/4 inch thick, UV protected polyethylene plastic. One piece (unseamed) design provides ultimate durability, and endures pressure of expanding ice in winter months.
- Fully assembled for easy installation in minutes. Entire top of rainsaver collects and funnels water inside so that precise downspout connection is not necessary. Just direct falling water anywhere on top of barrel.
- Two dispensing levels (one at bottom with extra adapter included) for connecting hose to barrel while maintaining spigot access.
- See reverse side for more details. Made in USA

\$134⁹⁹ Plus \$18 shipping and handling per barrel.
\$129⁹⁹ Save \$5 each when you buy 2 or more barrels.
\$5⁰⁰ T-Connector for linking 2 barrels (shipping included)

www.sprucecreekrainsaver.com 800-940-0187

When you use our Secure Online Order Form, we'll add an additional \$1.00/ft. each for postage insured. © 2002 The Spruce-Creek Company

Step 1



Step 2



Step 3



Step 4



Attachments

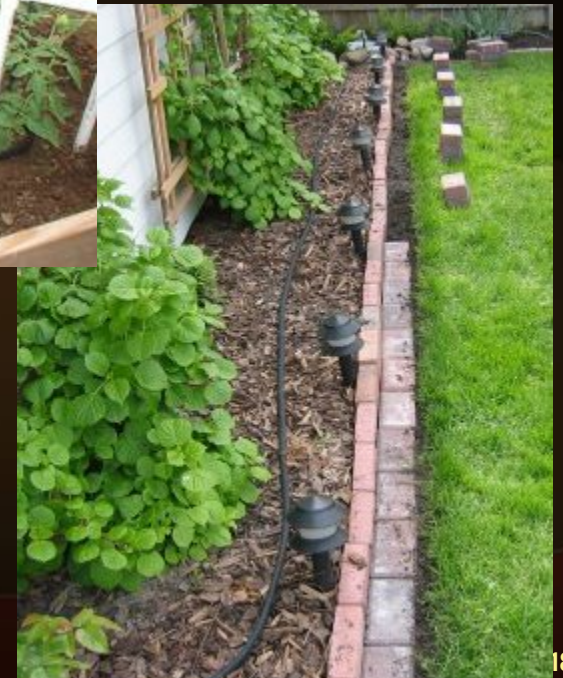
Downspout Diverters



Attachments

Hose Attachments

Soaker hose (drip irrigation)



Operation

Allow the barrel to capture the rain water and then:

Use water in barrel after each rain event
(typically 3-4 days)

OR

allow water to drain to the ground (can leave spigot always cracked open)



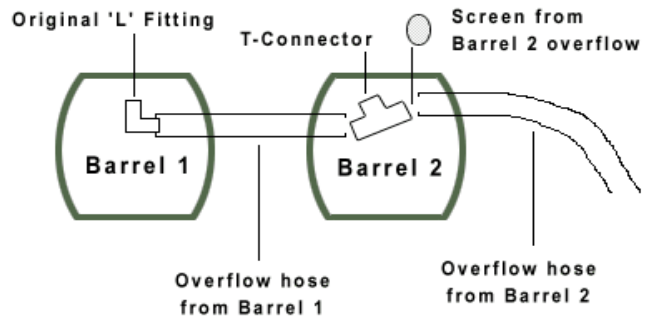
Maintenance

- Keep screen free of debris
- Ensure attachments are correct and tight
 - Ensure gutters and downspouts are clear of obstructions
- Recommend barrel be winterized
 - Emptied and turned upside down



Expanding to more rain barrels

- Consider adding barrels to other downspouts
- Connect multiple rain barrels in series



Series connector for Spruce Creek Rainsaver



Rain barrels on the market now



Rain Barrel Project Status

- Held over 20 workshops
- Distributed over 1,200 barrels to these watersheds:
 - Darby-Cobbs, Delaware Direct, Lower Schuylkill Pennypack, Poquessing, Tookany/Tacony -Frankford and the Wissahickon
- Estimated 4,260,000 gallons of stormwater saved from local waterways every year
- In 2008 we launched *phillywatersheds.org/rainbarrel*
Homeowners can now:
 - locate their watershed
 - check up on workshop announcements
 - register for workshops
 - learn about rain barrels