How to Create a Rain Garden

Designing and planting a rain garden is much like creating any other perennial garden, with a few unique differences.

- The garden must be located where runoff can be diverted into it, at least 10 feet away from building foundations and septic systems.
- A shallow, saucer-shaped depression is created in the garden to hold rain as it soaks in. The garden should be about 20-30% of the area from which it is receiving runoff.
- Soil replacement and additional preparations are sometimes needed for success. A good soil mix for rain gardens is 50-60% sand, 20-30% topsoil, and 20-30% compost.
- Species of perennial plants and shrubs native to our region are recommended, as they are adapted to local conditions and will not need extra care once they are established.
 Plant flood tolerant species in the center and drought tolerant ones around the edges.
 Berry-bearing and nectar-producing plants attract and nourish wildlife.
- A mulch of shredded hardwood is an integral part of your rain garden. It keeps the soil moist and ready to soak up rain, and makes your garden low-maintenance.

Did You Know? The average home roof is 1,300 square feet and generates 832 gallons of runoff during a single 1" rainfall event.

Rain Garden Resources

New England Wildflower Society: http://www.newfs.org/publications-and-resources/raingardens.html

URI Healthy Landscapes: www.uri.edu/ce/healthylandscapes/raingarden.htm

University of Connecticut Extension Service: www.sustainability.ucon.edu/pdf/raingardenbroch.pdf

Natural Resources Conservation Service: www.ia.nrcs.usda.gov/features/raingardens.html



Going Green with Storm Water: Rain Gardens



Broad Meadow Brook Conservation Center And Wildlife Sanctuary 414 Massasoit Road

Worcester, MA 01604

Phone: 508-753-6087 Fax: 508-755-0148 www.massaudubon.org

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Going Green with Storm Water

Rain Gardens



A Best Management Practice to:

- Reduce Stormwater Runoff
- Improve Water Quality
- Enhance Your Landscape

Make your own beautiful contribution to cleaner water in the Blackstone River Watershed.

Come visit Broad Meadow Brook's

Demonstration Rain Garden



What is a Rain Garden?

A rain garden is a shallow depression planted with perennial native plants that are tolerant of both dry and wet conditions. Rain gardens capture runoff from impervious surface areas such as rooftops and driveways and allow it to seep slowly into the ground. Most importantly, rain gardens help preserve nearby streams and ponds by reducing the amount of polluted runoff and filtering pollutants.

Why Plant a Rain Garden?

Stormwater runoff from residential areas often contains excess lawn and garden fertilizers, pesticides and herbicides, oil, yard wastes, sediment and animal wastes which cause water pollution.

Rain gardens fill with stormwater and allow the water to slowly filter into the ground rather than running off into storm drains, and eventually into streams and lakes.

Rain gardens reduce ing to prevent stream bank erosion and lowering the risk for local

By collecting and using rainwater that would otherwise run off your

yard, you not only return rain to the water table, but you are also creating a beautiful solution to water pollution.



The Rain Garden at Broad Meadow Brook Conservation Center

The rain garden captures roof runoff from three down spouts, and a rain barrel captures the fourth. We use water from the rain barrel to irrigate when necessary.



We chose a variety of native plants that provide color and interest throughout the growing season. They produce nectar and berries to attract wildlife such as butterflies, hummingbirds, cedar waxwings and winter robins.

Plant List:

Shrubs:

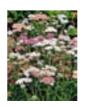
Sweet Pepperbush Dogwood Shamrock Inkberry Winterberry Gro-Low Sumac Lowbush Blueberry **Highbush Blueberry Dwarf Fothergilla** Slender Deutzia Potentilla

Perennials: Dwarf Aster

Swamp Milkweed loe Pye Weed Coneflower **Blazing Star** Beebalm **Blackeyed Susan Crested Iris** Foamflower Yarrow Sea Oats







Mass Audubon is a lead partner in the Blackstone River Coalition (BRC) and the Campaign for a Fishable/ Swimmable Blackstone River by 2015. All of Worcester's waterways, including Broad Meadow Brook, are headwater tributaries to the Blackstone. To further implement the Campaign, the BRC is targeting polluted runoff and stormwater volume as the major issue impacting water quality.

The BRC's "Tackling Stormwater in the Blackstone River Watershed" Initiative is a four-pronged approach focusing on homeowners, municipal decision makers, developers, and businesses. See www.zaptheblackstone.org for details.

Remember that anything that enters a storm drain in the

road is discharged untreated into the water bodies we use for swimming, fishing, paddling, and recharging our drinking water supplies. The more we can all do to reduce stormwater impacts to our waterways, the healthier they will be.

