

Stormy Day Review



2020 Issue 2

PLANTING DAYS

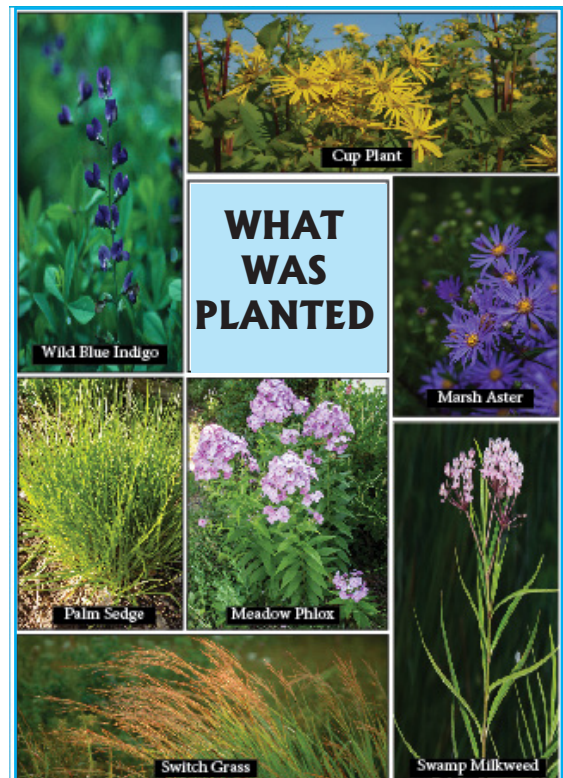


This Summer, small teams of volunteers planted over 2500 plants at the Meyer Industrial Drive bioretention basins over four days. The basins are a demonstration project for the Greater Bonne Femme Watershed Project and are open for the public to visit. These deep-rooted plants and amended soils act as a living filter by allowing water to soak in and remove pollutants, including oil, gas, road salt, trash, and other contaminants, from stormwater runoff, leaving Meyer Industrial Dr.

Clean water leaves the basins before entering Gans Creek, keeping the stream healthy and safe. At the same time, these basins provide a beautiful wildlife habitat for butterflies and bees to thrive. Rain gardens, wetlands, stream buffers, and ponds are some examples of other water quality features that can be used for treating and reducing stormwater runoff.

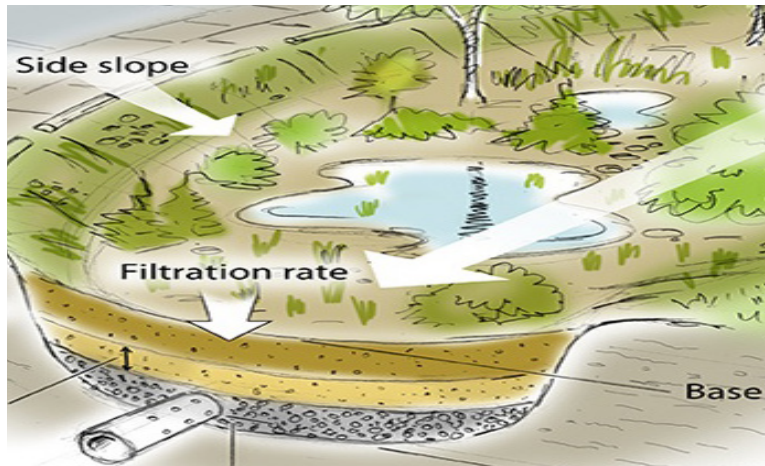
Benefits of Bioretention Basins

- Protects communities from flooding and drainage problems
- Improves air quality
- Provides habitat for wildlife including birds, butterflies, and insects
- Filters pollutants out of stormwater
- Recharges groundwater, helping sustain adequate stream flow during dry spells



Bioretention Basin Construction:

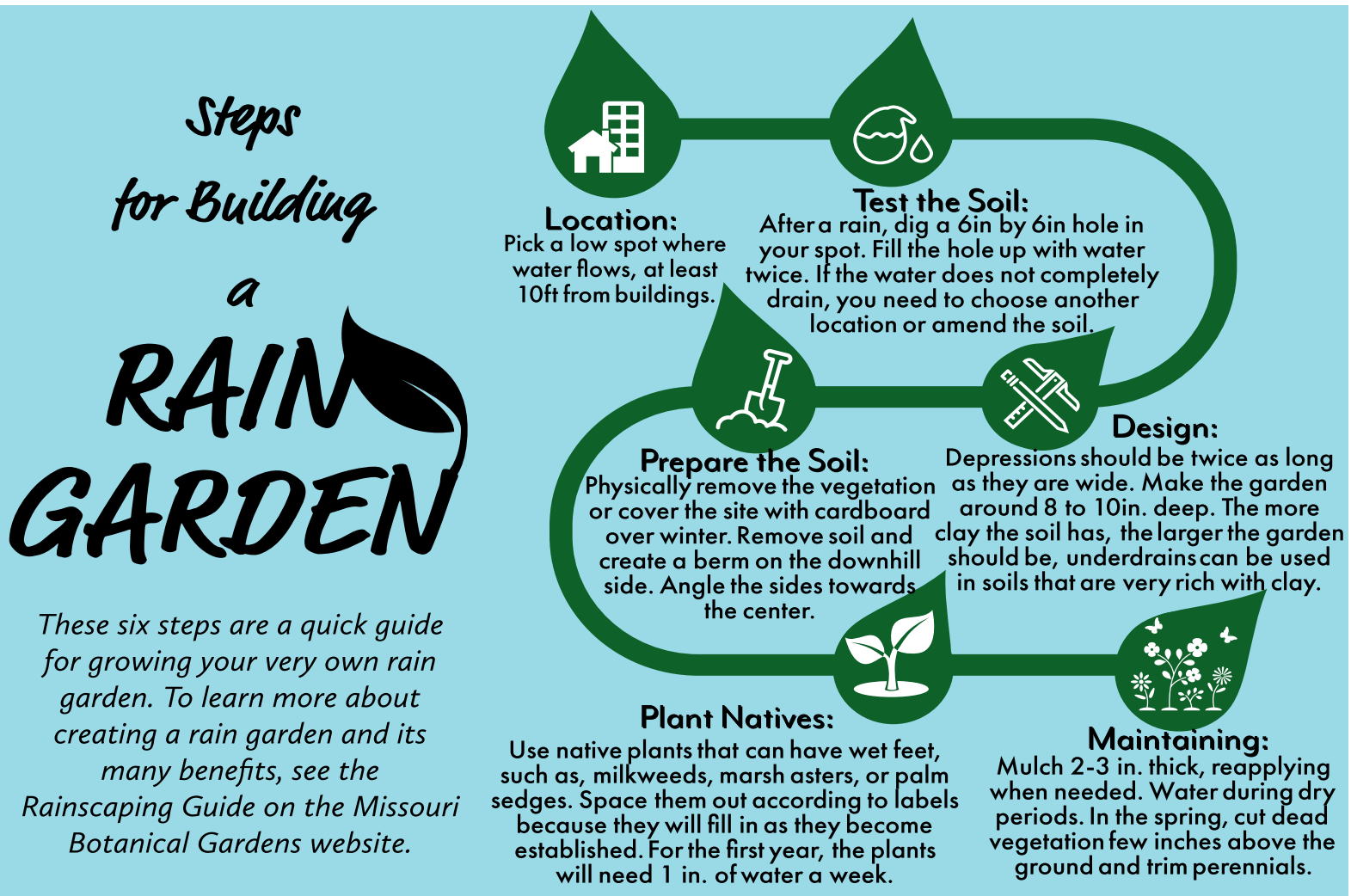
A blanket of gravel was first placed in the bottom of the depression, which allows treated water to sink deep, recharging the groundwater systems. This was followed by a layer of soil rich in organic matter and has a high percentage of sand, which provides drainage. This soil is alive with bacteria and fungi.



These bacteria and fungi play a large role in breaking down pollutants in the water and supplying nutrients for the plants. Deep-rooted plants that can thrive in both wet and dry conditions were planted into the soil. Finally, a mulch layer is added to help protect the plants and slow down runoff to prevent erosion. An outlet is placed in each basin to release excess water during intense rainfalls.

What you can do at home: Build a Rain Garden

You can improve the runoff leaving your yard by installing a rain garden. Rain gardens capture stormwater runoff in shallow depressions and treat it with deep-rooted, water-loving plants. Collecting water and allowing it to soak into the ground slowly, rain gardens reduce the potential for erosion and minimize the amount of pollutants leaving your lawn. Planting your rain garden with native plants not only enhances the beauty of your yard but also provides valuable habitat for wildlife.



Thursday, January 28th
6:30 PM



"Kiss the Ground is an inspiring and groundbreaking film that reveals how to regenerate the world's soils, stabilize Earth's climate, restore lost ecosystems, and create abundant food supplies. Narrated by and featuring Woody Harrelson."

-Kiss the Ground

Kiss the Ground Movie:

View at your convenience prior to the panel discussion. After you register, a link to view the film will be provided.

Interactive Panel Discussion:

on

Regenerative Agriculture - A Win-Win for Productivity and Water Quality

Thursday, January 28th at 6:30 PM

A virtual presentation link will be provided to you after registration.

REGISTER

ONLINE: forms.gle/iZB3gBLFMGkQ7G4E6

PHONE: (573) 886-4330

EMAIL: stormwater@boonecountymmo.org

U.S. Environmental Protection Agency Region VII, through the Missouri Department of Natural Resources, has provided partial funding for this project under Section 319 of the Clean Water Act.

WWW.CAVEWATERSHED.ORG



Mark your Calendar

January 1st: 12:30 PM

First Day Hike:

Rock Bridge Memorial Park

January 11-15th:

Salt Awareness Week

Wisconsin Salt Wise: YouTube

January 12th:

Big Muddy Speaker:

MO River Relief: Webinar

January 25th:

Wilderness Management:

Online: University of Montana

January 28th:

Kiss the Ground

Film Screening and Panel Discussion:

Virtual

January 29th & 30th

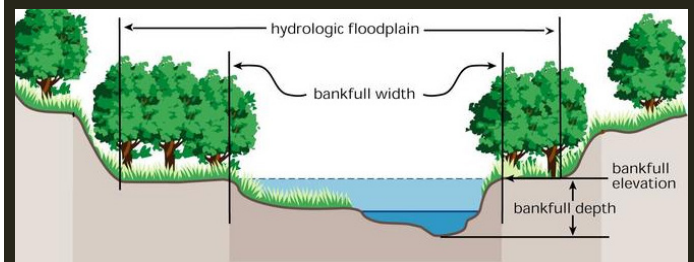
Agroforestry Symposium

Virtual: University of Missouri

Stormwater Fact

PLANT A STREAM BUFFER:

If you have a stream on your property, provide a natural buffer of native trees and shrubs along its banks to help filter polluted runoff, control erosion, and provide fish and wildlife habitat.



Quick Quiz

Take this quick quiz and return it to Michele Woolbright Hickman in Resource Management or email your answers to stormwater@boonecountymmo.org by December 15th.

Participants can win a free travel mug!

- 1) Name one type of plant that was planted at the Meyer Industrial Drive bioretention basins _____
- 2) What is one benefit bioretention basins provide? _____
- 3) When maintaining a rain garden, when should you remove dead vegetation? _____
- 4) What event is occurring on January 28th? _____