Rain Gardens

City of Peoria
Public Works Department

What is a Rain Garden?
Rain gardens are shallow depressions planted with perennial plants that are located in an area to collect rain water. Rain gardens can reduce flooding, absorb pollutants and sustain wildlife.

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During a heavy rain, the rain garden may fill up and overflow. Make sure the overflow drainage follows the original drainage of your lot. Rain gardens will not promote breeding of mosquitoes if built properly. Mosquito larva must live in water for at least 7 days. A rain garden should normally drain within 1-2 days.

Where to plant a Rain Garden?
♦ Rain gardens are easiest to construct in areas that naturally collect storm water runoff.
♦ Good locations are at the end of downspouts or sump pumps.
♦ Rain gardens can have any size or shape.
♦ Property owners with basements should generally locate the rain garden at least 10 feet away from and down slope of the building.

Rain gardens provide benefits to the environment over traditional turf grass lawns. Rain gardens reduce flooding, absorb pollutants, recharge the water table, and sustain wildlife. Rain gardens also beautify your property and your neighborhood. Any size rain garden, even small ones, make a difference.

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Why should you plant a Rain Garden?

The Illinois River is on the Illinois Environmental Protection Agency’s (IEPA) list of polluted waterways. Rain gardens and other native vegetation landscapes act as “mini wetlands” filtering pollutants out of our streams and rivers, recharging groundwater.

A typical rain garden is four to eight inches deep. Most rain gardens may only require loosening up the dirt in the planting area. You can use the soil removed when creating the depression to form a berm on the downslope end and sides to retain the storm water.

If soil removal and replacement is needed, a typical mixture would be 50% sand, 25% topsoil, and 25% compost or peat moss.

Native plants are the best choice for rain gardens, but many different types of perennials can be used. Native plants have deep root systems that help break up the soil and promote infiltration.

How to build a Rain Garden:

1. Dig a shallow depression approximately 4 –8 inches deep with a relatively level bottom.
2. Direct downspout or sump pump into the rain garden, if possible.
3. Plant native plants recommended for central Illinois and rain garden use.
4. Add a few inches of shredded hardwood mulch. The mulch removes pollutants, discourages weed growth and prevents erosion.
5. Water your new plants for the first few weeks until they are established.

Native plants are low maintenance, but they do require some maintenance. Weeds need to be removed, especially in the first few year as the plants become established.

Keep an eye on your garden. If a plant isn’t doing well, relocate it.

If the runoff is too strong, loss of mulch and small plants can occur. Strategically placed rocks or bricks can be used to reduce excess runoff velocities.

Examples of native rain garden plants:

- Blueflag Iris Iris versicolor
- Little Blue Stem Schizachyrium scoparium
- Joe Pye Weed Eupatorium dubium
- Black-Eyed Susan Rudebeckia Hirta
- New England Aster Aster Novae-Angliae
- Prairie Blazingstar Liatris Pycnostachya
- Butterfly weed Asclepias tuberosa
- False Sunflower Heliopsis Helianthoides
- Bergamot Monarda fistulosa
- Great Blue Lobelia Lobelia Siphilitica
- Cardinal Flower Lobelia cardinalis
- Purple Coneflower Echinacea Purpurea

Height: 2-3 ft
Height: 1-2 ft
Height: 2-5 ft
Height: 2 ft
Height: 2-4 ft
Height: 3 ft
Height: 2-5 ft