# Stormwater Pollution Prevention What You Can Do!

Angel Hinickle

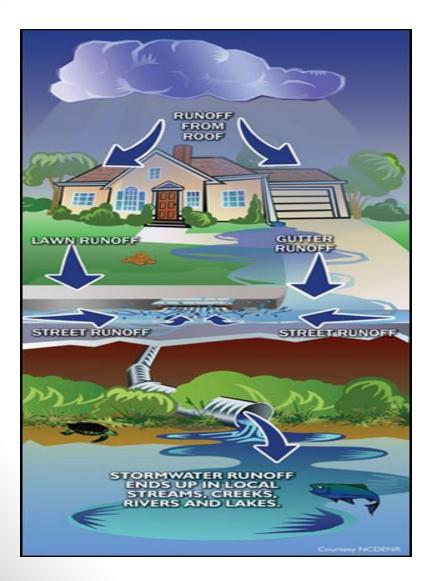
Resource Conservation Specialist

Tompkins County Soil and Water Conservation District

Stormwater Coalition of Tompkins County



## What is Stormwater?



Stormwater is rainwater or melting snow that doesn't soak into the ground but runs off the landscape into waterways.



## Stormwater Runoff

 Stormwater flows from bare soil, paved areas, rooftops, and lawns

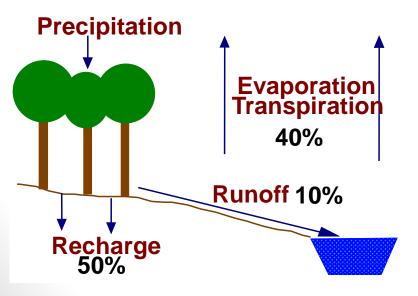
- Bringing with it:
  - Sediment
  - Pesticides
  - Fertilizer (nitrogen and phosphorus)
  - Oil/Grease
  - Human/Wildlife Waste

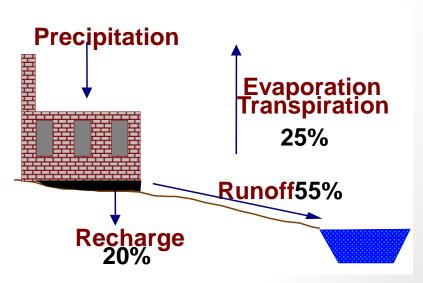




## What is Stormwater Runoff?

 Stormwater runoff is a natural part of the hydrologic cycle...but as land use changes, runoff can increase by 45%, resulting in erosion, pollutant transport, sedimentation, loss of aquatic habitat, and other damages.





**Undeveloped Condition** 

**Developed Condition** 

## Why is Stormwater a Concern?



Polluted runoff is one of the nation's greatest threats to clean water.

- Major source of sediment to local waters
- Polluted water reaching local waterbodies resulting in:
  - Beach Closures
  - Degraded water quality
  - Degraded streams
  - Shellfish Closures
  - Fish Kills
  - Habitat Loss

## What Can I Do?

- Use pesticides and fertilizers sparingly or not at all.
- Infiltrate rain water or store for later use!
  - Disconnect Down Spout
  - Rain Barrel
  - Rain Garden
  - Pervious Paving
  - Green Roof

## Fertilizer and Pesticides

- Consider not using fertilizer's or pesticides
- Always follow manufacturer's directions.
- Never apply before forecasted rain!
- Slow release fertilizer (at least 30% slow release)
- Use native vegetation that requires less/no fertilizer or pesticides.



## Fertilizers and Pesticides

- Use compost.
- Spread grass clipping on the lawn.
- Maintain a buffer strip of unmowed natural vegetation bordering all waterbodies.

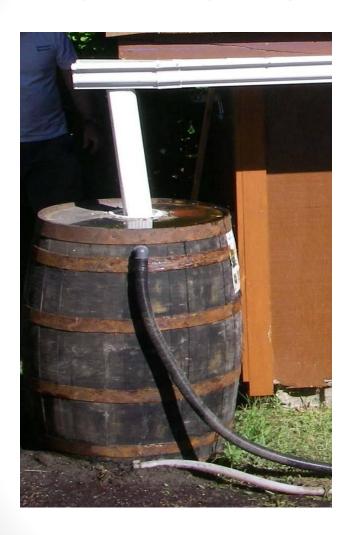




## Downspouts



## Rain Barrel



- Aboveground water storage
- Also called cisterns
- Vary in size (20-150 gallons)
- Capture rain runoff from roof using the gutter and downspout system
- Water can be used to water garden, plants, wash the car, discharged to rain garden





## Rain Gardens

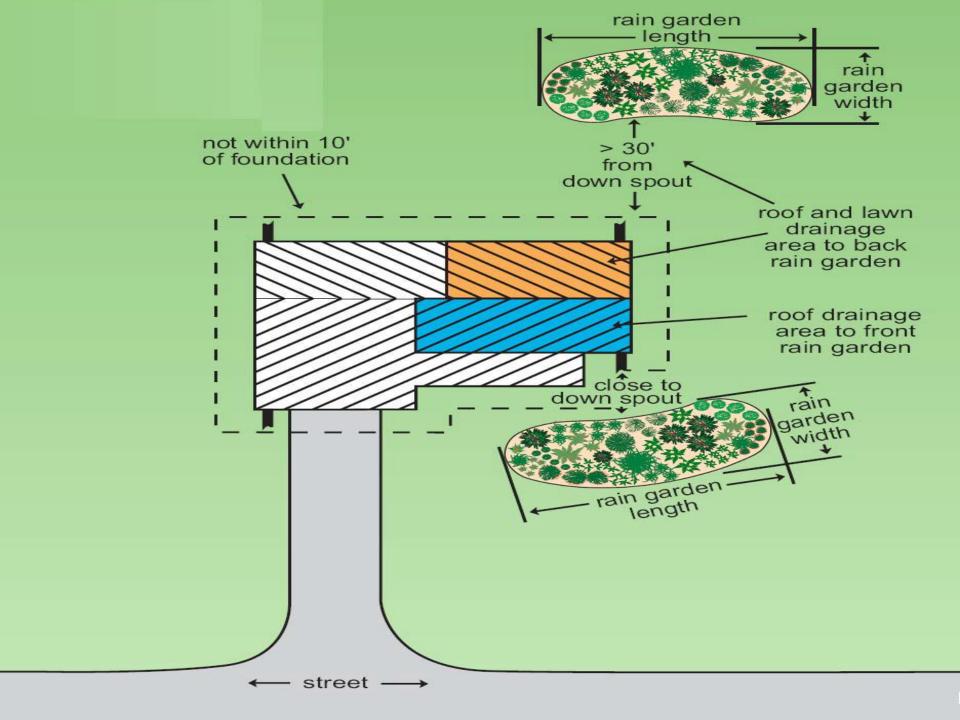
 A shallow depression in the yard that's planted with native wetland or wet prairie wildflowers and grasses.

#### Benefits

- Promotes infiltration of rain water
- Reduces flooding
- Reduces amount of stormwater pollution entering waterways
- Adds beauty to lawn
- Provides habitat and food







## Pervious Paving



 Pavement that is designed to allow percolation or infiltration of stormwater through the surface into the soil below where the water is filtered and pollutants removed.

#### Benefits

- -Promotes infiltration of water
- -Reduces stormwater runoff
- -Reduces stormwater pollution

# Types

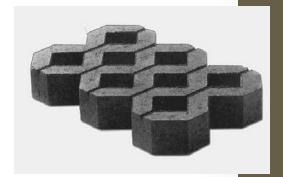


**Porous pavement** 



**Porous pavers** 





**Turf Stones** 

#### Questions?

Please contact me at:

angeldybas@tcswcd.org

or

(607) 257-2340