Stormwater Pollution Prevention What You Can Do!

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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.



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?

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