

North Carolina Coastal Federation Smart Yards DIY Solutions to Reduce Stormwater Pollution



North Carolina Coastal Federation Working Together for a Healthy Coast

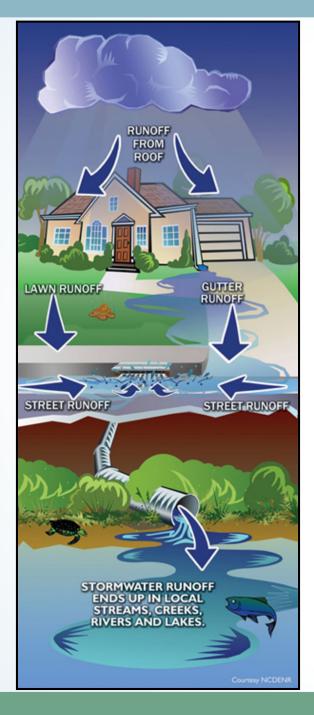
Sara J. Hallas sarajh@nccoast.org

North Carolina Coastal Federation

Our Goals:

- Coastal water quality that supports fishing, swimming, and a vibrant coastal economy.
- Sound **coastal management** that protects the coast.
- Living shorelines that prevent erosion and provide habitat.
- Thriving oysters that support the environment and economy.
- A coast that is free of marine debris.





Stormwater Runoff...

... is rain that washes off driveways, parking lots, yards, and other hard surfaces. It picks up pollution, such as bacteria, chemicals, and trash, and washes them into creeks, rivers, sounds, or into the ocean.



BEFORE







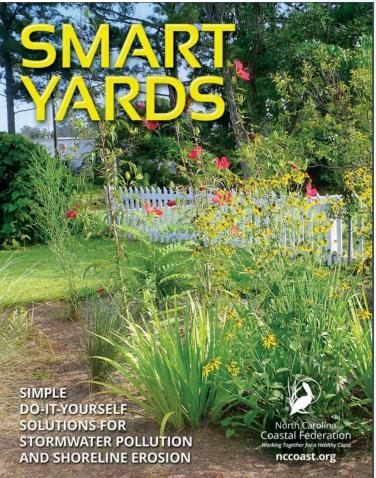




What Can You Do?

Make your yard a Smart Yard!





https://www.nccoast.org/smartyards



North Carolina Coastal Federation Working Together for a Healthy Coast

Simple Do-It-Yourself Solutions to Reduce Stormwater Pollution

- Smart Yards:
- Rain Gardens
- Reroute Downspouts
- Rain Barrels
- Native Landscaping and Tree Planting
- Backyard Wetlands
- Permeable Paving
- Living Shorelines





Rain Gardens

- Shallow, vegetated areas that capture rain during storms.
- Works like a bowl to collect rain from roofs, driveways and parking lots.

Did You Know? Rain gardens can reduce stormwater runoff by 90% or more!





Benefits of a Rain Garden

- Rain gardens copy nature!
- Reduces flooding
- Enhanced curb appeal
- Native plants
 require less water
 and fertilizer
- Natural wildlife habitat





Coreopsis gladiata Coastal Plain Tickseed



Eutrochium dubium

Helianthus angustifolius

Swamp Sunflower

Coastal Plain Joe-Pye Weed



Re-route Downspouts

 Direct downspouts to rain gardens, where the native plants and soil soak up and filter the rain.

Did You Know? At \$9/downspout, the diverters are a very cost-effective solution!



Rain barrels

 Rain barrels collect and store rainwater from building roofs.

Did You Know? Just ¼ inch of rain produces enough runoff to fill a 50 gallon rain barrel.



Native Landscaping

Native landscaping includes the use of hardy native plants that occur naturally in the soils and climate of the southeast coastal region.



Backyard Wetlands

- Backyard wetlands

 are depressed wet
 areas that are
 enhanced with native
 wetland plants.
- They are well suited for yard areas that are usually wet for several days following rain.



Pervious concreate

 Pervious concrete allows stormwater to soak into the ground instead of flowing off the site as polluted runoff.



Unlike traditional concrete, pervious concrete lacks sand in its mixture which allows the rain to fill the tiny holes and seep into the ground.

Living Shorelines

- Systems that use marsh grass and other natural materials to create a more productive shore.
- Benefits include:
 - Reduced erosion
 - Natural vegetation
 - Improved water quality
 - Potential for habitat
 - Protected coastal habitat









North Carolina Coastal Federation Working Together for a Healthy Coast

www.nccoast.org

3609 N.C. 24, Newport, NC 28570

252-393-8185

Support a Clean and Healthy Coast



- Give
 - Donate
 - Membership
- Volunteer
- Show your support
 - License Plate
- Stay Connected
 - Follow us!
 - NCCoastalFed

