

DELAWARE NONPOINT SOURCE EDUCATIONAL MATERIALS SURVEY

*Prepared for:
Delaware Department of
Transportation*



*Prepared by:
Appoquinimink River Association*



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The principal author of this survey is Sara L. Wozniak, Executive Director and Watershed Coordinator of the Appoquinimink River Association. She would like to acknowledge all those contributing members of the survey, including those organizations that did not have materials to provide but were supportive of the work.

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Purpose

As a service to all those organizations working in the State of Delaware and helping to educate its citizens on the problems of nonpoint source pollution, the Appoquinimink River Association was asked by the Delaware Department of Transportation to complete a review of all pertinent educational documents produced for use in Delaware. While there are many educational programs within the state, the focus of this survey was only on actual materials for use and distribution in nonpoint education. Thus, this survey provides only a listing of nonpoint source educational materials available and applicable for use in Delaware. This survey is intended to bring focus to all the materials available, prevent duplication of similar documents and illustrate specific materials of need that are absent.

It is important to note that while a document might be listed under a certain organization, they may not produce it themselves. Many of the groups rely on materials created by other organizations and are simply distribution agents. Also, some groups use the same materials and in efforts to prevent duplication, they were only described under the first organization listed.

For additions or deletions on future editions, contact the Appoquinimink River Association at (302) 382-0335.

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List of Acronyms

BLM	- Bureau of Land Management
BMP	- Best Management Practice
BVA	- Brandywine Valley Association
CIB	- Center for Inland Bays
DDOA	- Delaware Department of Agriculture
DelDOT	- Delaware Department of Transportation
DNREC	- Delaware Department of Natural Resources and Environmental Control
DNS	- Delaware Nature Society
DOI	- Department of Interior
DRBC	- Delaware River Basin Commission
DWRC	- Delaware Water Resource Center
FSA	- United States Department of Agriculture – Farm Service Agency
KCCD	- Kent County Conservation District
NACD	- National Association of Conservation Districts
NCC	- New Castle County
NCCD	- New Castle Conservation District
NFWF	- National Fish and Wildlife Foundation
NMC	- Nutrient Management Commission
NOAA	- National Oceanic and Atmospheric Administration
NRCS	- United States Department of Agriculture – Natural Resource Conservation Service
PDE	- Partnership for the Delaware Estuary
SCCD	- Sussex County Conservation District
TNC	- The Nature Conservancy
UD	- University of Delaware
USACOE	- United States Army Corps of Engineers
USDA	- United States Department of Agriculture
USEPA	- United States Environmental Protection Agency
USFWS	- United States Fish and Wildlife Service
USGS	- United States Geological Survey
WRA	- University of Delaware, Institute for Public Administration, Water Resources Agency

Brandywine Conservancy Environmental Management Center

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**For further
information on
this organization
and its
publications,
consult the
following website:**

www.brandywineconservancy.org/

Title: *Forested Stream Buffers*

Year Published: 1999

Author: Brandywine Conservancy Environmental Management Center

Description: This pamphlet discusses how you can start a forested stream buffer, what programs can help establish a forested stream buffer, what forested buffers are and why they are important.

Website Address:

www.brandywineconservancy.org/forested_buffers/index.html

Delaware Department of Agriculture – Forest Service

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**For further
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consult the
following website:**

**[www.state.de.us/dept
agri/forestry/index.ht
m](http://www.state.de.us/dept
agri/forestry/index.htm)**

Title: *Delaware BMP Field Sheet*

Author: Forest Service

Description: This laminated field sheet developed for those in the forest service professions discusses why loggers should use erosion and sediment control BMPs and includes details on 4 major BMPs used to protect water quality, provide wildlife habitat and improve the image of the logging profession including buffers, crossings, roads and landings, and ruts.

Title: *Harvesting Timber in Delaware*

Author: Forest Service

Description: This pamphlet designed for those in the forest service professions discusses the connection between productive forests and clean water; the Forestry Practices Erosion and Sediment Law guidelines and how to comply; the Delaware Seed Tree Law and how to comply; and common BMPs used to minimize soil disturbance and protect stream channels or ditches. BMPs discussed include pre-harvest planning, streamside management zones, log decks and landings, wooden mats, stream crossings, and revegetation of bare soils.

Delaware Department of Agriculture – Nutrient Management Commission (NMC)

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For further information on this agency and its publications, consult the following website:

www.state.de.us/deptagri/nutrients/index.htm

Title: *Agricultural Runoff Delaware*

Year Published: 2002

Authors: NMC, Delaware Nonpoint Program, DDOA, DNREC, Delaware Farmers and Agricultural Industry

Description: This 13 minute video describes the problems caused by agricultural runoff, what the Nutrient Management Commission is with nutrient management plans, and best management practices used by local farmers to prevent nutrient pollution.

Title: *Delaware Nutrient Management Program*

Author: NMC

Description: This set of brochures for farmers describes what a nutrient management plan is, what the goals of the plan are and what steps are needed for its completion. It also discusses certification levels and requirements, maintenance and implementation, and the Nutrient Management Relocation Program.

Website Address:

www.state.de.us/deptagri/nutrients/nm_broch.htm

Title: *Managing Nutrients for Your Turf Grass and Lawns*

Authors: NMC, Delaware Nonpoint Source Program, CIB

Description: This pamphlet geared toward all homeowners discusses what the Delaware Nutrient Management Act says, why nutrient management on lawns is important, how nutrient management affects the environment, common lawn care mistakes, general fertilizer tips, how to take a soil sample, and when and how often soils should be tested.

Website Address:

www.state.de.us/deptagri/nutrients/nm_broch.htm

Title: *Nutrient Best Management Practices*

Author: NMC

Description: This booklet for farmers discusses 53 different agricultural best management practices that can protect water quality while maintaining agricultural profitability.

Website Address:

www.state.de.us/deptagri/nutrients/bmp.htm

Delaware Department of Natural Resources and Environmental Control – Delaware Coastal Programs

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For further information on this agency and its publications, consult the following website:

www.dnrec.state.de.us/dnrec2000/Divisions/Soil/dcmp/index.htm

Title: *Around the House Tips*

Author: Delaware Coastal Nonpoint Program

Description: This fact sheet discusses what nonpoint source pollution is and gives tips on car care, household hazardous waste and septic systems.

Title: *Clean Boating Tips*

Author: Delaware Clean Marina Program

Description: This laminated handheld tip sheet contains tips for boaters about containing trash, recycling, fueling cautiously, controlling oil in the bilge, properly disposing of oil absorbent materials, cleaning gently, maintaining your vessel wisely, sewage disposal, disposing of fish waste properly, protecting sensitive habitat and overall, being a responsible boater.

Title: *Clean Boating Tips*

Author: Delaware Clean Marina Program

Description: This fact sheet for boaters contains information on fish waste disposal, trash and litter, boat maintenance, sewage control and pumpouts, petroleum/bilge care and habitat protection.

Title: *Coastal Nonpoint Source Pollution*

Authors: USEPA, NOAA

Description: This brochure discusses what nonpoint source pollution is, why it is a coastal problem, who is responsible, what is being done to stop nonpoint source pollution, and what homeowners can do to help prevent the problem.

Title: *Controlling Nonpoint Source Pollution in Delaware*

Author: Delaware Coastal Nonpoint Program

Description: This set of fact sheets covers the following topics:

1. *Just what is nonpoint source pollution* – describes what nonpoint pollution is and what homeowners can do to help prevent it.
2. *Cleanliness is next to pollution* – discusses household cleaning product pollution.
3. *A happy septic system is an environmentally friendly septic system* – gives tips on the care and feeding of a septic system.
4. *Go the extra yard to prevent pollution* - explains how to prevent pollution outdoors.

Delaware Department of Natural Resources and Environmental Control – Delaware Coastal Programs

Title: *Delaware Clean Marina Guidebook*

Year Published: 2003

Author: Delaware Clean Marina Program

Description: This CD for marina owners and developers discusses siting considerations for new and expanding marinas, marina design and maintenance, stormwater management, vessel maintenance and repair, petroleum control, sewage handling, waste containment and disposal, marina management, laws and regulations and boater education.

Website Address: www.dnrec.state.de.us/dnrec2000/P2/Marina/

Title: *Delaware Coast~A~Syst*

Author: Delaware Coastal Programs

Description: This extensive guide provides information on how homeowners can protect the quality of water near their homes and throughout their communities. It includes details on things that homeowners can do in the areas of site assessments, stormwater management, drinking water, septic systems, household hazardous products, home landscaping and boat and dock care.

Website Address:

www.dnrec.state.de.us/dnrec2000/Divisions/Soil/dcmp/asyst.htm

Title: *Delaware's Riparian Buffers: Building a Line of Defense to Protect Our State's Waters*

Author: DNREC

Description: This brochure discusses what riparian buffers are; their benefits on the farm, in the city, as wildlife habitat and as a tool to improve quality of life; the Delaware Riparian Buffer Initiative, and GIS as a buffer tool.

Website Address:

www.dnrec.state.de.us/dnrec2000/Divisions/Soil/dcmp/de_ripbuffersnew.pdf

Title: *Discover Delaware's Inland Bays*

Authors: NOAA, DNREC

Description: This map and brochure includes information on the living resources of the Inland Bays, things to explore, navigational aids and places of interest in the Inland Bays along with details on ways to keep the Inland Bays clean and healthy while visiting.

Website Address:

www.dnrec.state.de.us/DNREC2000/Library/Misc/InlandBays.pdf

Title: *Drainage and Water Management*

Author: DNREC

Description: This brochure discusses the need for water management, historic channel construction, what a tax ditch is, how tax ditches are formed, environmentally friendly channel construction, tax ditch maintenance, wetland restoration in marginal agricultural fields, stream corridor restoration, benefits of wetland restoration and education and outreach.

Delaware Department of Natural Resources and Environmental Control – Delaware Coastal Programs

Title: *Estuaries: Where Rivers Meet the Sea: Ten Ways to Protect Estuaries*

Authors: USEPA, NOAA

Description: This fact sheet gives ten ways to help prevent and mitigate against the effects of pollution including keeping septic tanks working properly, pave less, think before you pour and create non-toxic pesticides.

Title: *Lawn Care Tips*

Author: Delaware Coastal Nonpoint Program

Description: This fact sheet discusses what nonpoint source pollution is and tips on lawn care pollution prevention techniques.

Title: *Marina Warning Signs*

Author: United States Coast Guard

Description: This set of plastic signs for use in a marina includes the following topics:

1. *Use of soaps* – warns about the use of soaps and other dispersing agents to dissipate oil.
2. *Boaters* – discusses keeping bilges clean.
3. *Stash your trash* – discusses cleaning up garbage and recyclables.
4. *When fueling* – gives tips on fueling your vessel.

Title: *Read the Label First*

Authors: USEPA, Consumer Product Safety Commission

Description: This brochure discusses how to keep your family and community safe with hazardous household products including tips on preventing harm to the environment.

Title: *Simply Septics: A Guide for Delaware Homeowners about On-Site Wastewater Treatment and Disposal Systems*

Year Published: 1999

Authors: DNREC Division of Water Resources, Delaware On-Site Wastewater Recycling Association, Clean Delaware Inc.

Description: This guide developed for homeowners includes information on how to obtain a site evaluation, septic permit and where to find a licensed contractor; the do's and don'ts for your on-site wastewater treatment and disposal system; how your system functions; how to repair or replace a malfunctioning system; funds available to repair/replace failed wastewater disposal systems; and diagrams of typical and alternative systems.

Title: *What's a Swamp Worth?*

Author: David L. Hardin

Description: This article discusses the importance of freshwater wetlands in Delaware including habitat creation, recreational opportunities and water quality maintenance.

Delaware Department of Natural Resources and Environmental Control – Delaware Coastal Programs

Title: *What's Right and Wrong with this Picture?*

Authors: NOAA, Delaware Coastal Program, Delaware Estuary Program, New Jersey Department of Environmental Protection, Pennsylvania Department of Environmental Protection

Description: This picture activity for children helps them to determine what activities are helping prevent nonpoint source pollution and those that contribute to nonpoint source pollution.

Delaware Department of Natural Resources and Environmental Control – Pollution Prevention Program

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**For further
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consult the
following website:**

**[www.dnrec.state.de.us
/dnrec2000/p2/index.
htm](http://www.dnrec.state.de.us/dnrec2000/p2/index.htm)**

Title: *Low Impact Camping*

Author: DNREC Pollution Prevention Program

Description: This website gives suggestions to help campers enjoy a visit to Delaware's State Parks while protecting the environment.

Website Address: www.dnrec.state.de.us/camptext.htm

Title: *P2 and You*

Author: DNREC Pollution Prevention Program

Description: This website and booklet created for all homeowners discuss ways to prevent pollution and reduce waste inside your home including the kitchen, bathroom and laundry room; outside your home; with automobiles; and when shopping.

Website Address: www.dnrec.state.de.us/p2.htm

Title: *Pollution Prevention Guides*

Author: DNREC Pollution Prevention Program

Description: These fact sheets for specific industries discuss how to avoid producing waste (to reduce losses) while at the same time helping to improve the environment. Industries included are as follows:

- Automotive Repair Shops
- Building Construction and Demolition
- Dry Cleaning Industry
- Fleet Management
- Food Processors
- General Business Practices
- Metal Fabricators
- Office
- Printing Industry
- Small Chemical Manufacturing Operations

Website Address:

www.dnrec.state.de.us/dnrec2000/p2/PPGuide.htm

Delaware Department of Natural Resources and Environmental Control – Sediment and Stormwater Program

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**For further
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consult the
following website:**

**[www.dnrec.state.de.us/
DNREC2000/Divisions/
Soil/Stormwater/Storm
Water.htm](http://www.dnrec.state.de.us/DNREC2000/Divisions/Soil/Stormwater/StormWater.htm)**

Title: *Five Simple Steps to Maintaining and Enhancing Community Open Space and Stormwater Management Areas*

Year Published: 2004

Author: DNREC Sediment and Stormwater Program

Description: This guide provides comprehensive information on maintaining areas in your residential development such as community open space or common ground, stormwater management facilities and your private property. It includes information on nonpoint source pollution, the importance of open space, importance of stormwater management, five simple steps to maintaining and enhancing stormwater management areas, tips on keeping maintenance costs down, and common problems associated with stormwater management ponds.

Title: *Helping the Environment Starts in your Back Yard*

Author: DNREC Sediment and Stormwater Program

Description: This pamphlet discusses proper lawn care, planting native grasses, how to take a soil sample, promoting environmentally-friendly landscaping, and limiting fertilizer use.

Website Address:

www.dnrec.state.de.us/DNREC2000/Divisions/Soil/Stormwater/Brochure/BackyardEnv..pdf

Title: *Homeowner's Guide to Maintaining Stormwater Management Areas*

Author: DNREC Sediment and Stormwater Program

Description: This pamphlet includes information on how to keep our water clean, the four major types of stormwater management areas (wet pond, dry pond, infiltration basin and green technology), and stormwater area maintenance.

Website Address:

www.dnrec.state.de.us/DNREC2000/Divisions/Soil/Stormwater/Brochure/FacMaint.pdf

Delaware Department of Transportation (DelDOT)

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**For further
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publications,
consult the
following website:**

www.deldot.net

Title: *Clean Water Begins and Ends with You Calendar*

Year Published: ongoing

Authors: DelDOT, PDE

Description: This children's calendar includes artwork from student winners in a water education contest and helpful tips about water.

Title: *F.Y.I. Storm Water Management*

Author: DelDOT

Description: This 10th in a series of informational brochures discusses what you can do in your driveway or on your lawn to help reduce water pollution at the source, what DelDOT is doing to reduce pollution from its roadways before it enters our streams and waterways.

Title: *Let's Learn about Water*

Authors: DelDOT, PDE

Description: This children's activity book includes a board game, a diagram of the water cycle, a water maze, a map of all Delaware's watersheds, tips on what families can do to protect water, a word find, a hidden picture find and more activities to help children learn about water.

Title: *NPDES Stormwater Quality Program*

Authors: NCC, DelDOT

Description: This extensive website discusses the National Pollution Discharge Elimination System Program in place in Delaware. Information is provided on what a stormwater system is, why it is regulated, where stormwater pollution comes from, what NCC and DelDOT are doing to deal with stormwater pollution and things that homeowners can do to prevent pollution.

Website Address: www.ncc-swnpdes.com/index2.htm

Title: *Put on your detective hat...*

Authors: DelDOT, DNS, NCC

Description: This oversized bookmark includes an activity for kids to pick out problems that they see in a picture that could affect the nonpoint pollution of waterways.

Delaware Department of Transportation (DelDOT)

Title: *What Flows Down the Storm Drain Ends Up Here*

Authors: DelDOT, NCC, DNS

Description: This pamphlet includes information on what citizens can do to help protect water under the topics of fertilizer and pesticide use, stormwater runoff, household and automotive chemical containment, and bacterial contamination.

Title: *Working to Protect Delaware's Waterways*

Author: DelDOT

Description: This brochure discusses the threat of nonpoint pollution, what citizens can do to help keep our waters clean and what DelDOT is doing to prevent this type of pollution including a description of their inspection and inventory program.

Delaware Nature Society (DNS)

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**For further
information on
this organization
and its
publications,
consult the
following website:**

**[www.delawarenature
society.org](http://www.delawarenature
society.org)**

Title: *Protecting Our Water: Who's got the Power?*

Authors: DNS, Stroud Research Center

Description: With the educational experience of the Delaware Nature Society and the scientific expertise of the Stroud Water Research Center, explore the world of the stream through this 30-minute documentary video. Learn how our water supply is suffering as a result of these changes to the land and what you can do to help protect our water.

Delaware River Basin Commission (DRBC)

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**For further
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this organization
and its
publications,
consult the
following website:**

www.state.nj.us/drbc/

Title: *Ed. Web*

Author: DRBC

Description: This extensive educational website includes information on water resources for all ages in forms such as sample lesson plans, student projects and websites.

Website Address:

www.state.nj.us/drbc/edweb/edweb.htm

Title: *PCBs – What are they?*

Author: DRBC

Description: This fact sheet describes what PCBs are, their properties, sources of exposure, routes of entry and health effects.

Website Address: www.state.nj.us/drbc/pcb.PDF

Title: *Snapshot: A Report Card on the Health of the Delaware River Basin Waterways and Data Sheets*

Partner: DRBC

Description: This pamphlet and data sheets offer information on how to conduct a stream assessment and briefly describes some of the terminology used in measuring water quality (such as dissolved oxygen, pH, nitrates, phosphates, turbidity, and water temperature).

Website Address: www.nj.gov/drbc/snapshot.htm

Title: *Water Resources Plan for the Delaware River Basin*

Year Published: 2004

Author: DRBC

Description: This basin plan is a 30-year, goal-based framework that will serve as a guide for all governmental and non-governmental stakeholders whose actions affect water resources in the Delaware River Basin. It includes an extensive matrix of goals and objectives for all areas of water resources in the basin using five key result areas: sustainable use and supply; waterway corridor management; linking land and water resource management; institutional coordination and cooperation; and education and involvement for stewardship.

Website Address: www.nj.gov/drbc/basinplan.htm

Delaware Riverkeeper Network

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publications,
consult the
following website:**

**[www.delawariver
keeper.org](http://www.delawariverkeeper.org)**

Title: *25 Ways to Protect Your Stream and Streamside Property*

Authors: Delaware Riverkeeper Network, Morris Arboretum of the University of Pennsylvania

Description: This brochure is designed to help homeowners improve their management of stream side properties. A list of recommended plants for riparian buffers is included.

Title: *Adopt-A-Buffer Toolkit: Monitoring and Maintaining Restoration Projects*

Year Published: 2003

Author: Delaware Riverkeeper Network

Description: This 133 page manual is designed for local watershed groups, restoration practitioners, and volunteer monitors who implement stream restoration projects and who are seeking inexpensive, effective volunteer-based monitoring techniques to assess restoration projects. The Toolkit is packed with useful information and includes a menu of monitoring protocols to choose from based on the type of restoration project implemented and the project goals. In addition, the Toolkit also includes a series of maintenance factsheets to help address common issues that can arise at a restoration project. Cost \$15.

Title: *Did You Know?...Healthy Wetlands Devour Mosquitoes*

Author: Delaware Riverkeeper Network

Description: This fact sheet dispels the myth that wetlands must be drained to prevent mosquito problems. It describes the difference between healthy wetlands and standing water and how restoring a wetland helps to reduce mosquito populations.

Title: *"Green" Yards Protect Streams*

Author: Delaware Riverkeeper Network

Description: This fact sheet explains how using backyard conservation techniques help protect local stream networks through stormwater management.

Website Address:

www.delawariverkeeper.org/factsheets/lawns_and_streams.html

Delaware Riverkeeper Network

Title: *In Defense of Watersheds: Protecting Your Community from Flooding without Dams. Including case study: "The Demise of the Dark Hollow Dam"*

Author: Delaware Riverkeeper Network

Description: This manual explains how nonstructural solutions and preventive conservation efforts work better than dams and regional detention basins to prevent flooding from stormwater runoff and provides a step by step guide for how to make better alternatives a reality in your community. Cost \$5 for CD, \$15 for complete printed document with Appendix; or \$10 for printed document without Appendix.

Title: *Muddy Waters Project: A Citizen's Guide to Investigating and Reducing Sediment Pollution*

Year Published: 1997

Author: Delaware Riverkeeper Network

Description: This detailed guide promotes understanding about erosion and sediment control issues and provides citizen groups, municipal officials and students with an inexpensive, non-technical method for documenting and reporting the most common form of nonpoint source pollution – sediment. Cost \$5 printed.

Title: *Plant a Native Landscape*

Author: Delaware Riverkeeper Network

Description: This fact sheet details things to consider when planting a native landscape.

Website Address: www.delawariverkeeper.org/factsheets/native_plants.html

Title: *Riparian Buffers*

Author: Delaware Riverkeeper Network

Description: This multi-paged fact sheet describes the benefits of riparian buffers, buffer width considerations and its use as a stormwater best management practice.

Title: *Stormwater Runoff, Lost Resource or Community Asset? A Guide to Preventing, Capturing and Recovering Stormwater Runoff*

Author: Delaware Riverkeeper Network

Description: This handbook is a user-friendly guide to preventing, capturing and recovering stormwater and reducing flooding pollution. Laid out in an extensively documented and readable way, the guide walks the reader through the problems and solutions. Fact sheets that are meant for copying and distribution are included, packed with information about conservation design methods, best management practices and natural resource protection techniques. Cost \$15 printed.

Title: *Stream Restoration in Pennsylvania: Ten Case Studies*

Author: Delaware Riverkeeper Network

Description: This 76 page full color booklet outlines various stream restoration projects including details on lessons learned from each case. Cost \$5 printed.

Delaware Riverkeeper Network

Title: *Vegetated Buffers, Open Space and Greenways*

Author: Delaware Riverkeeper Network

Description: This fact sheet details what vegetated buffers, open space and greenways are and their many benefits.

Website Address:

www.delawariverkeeper.org/factsheets/vegetated_buffers.html

Title: *Vegetated Rooftops – A Best Management Practice with Multiple Benefits*

Author: Delaware Riverkeeper Network

Description: This fact sheet describes what a vegetated rooftop is, its benefits and other variations that have been implemented for stormwater management.

Delaware Water Resources Center (DWRC)

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For further information on this organization and its publications, consult the following website:

ag.udel.edu/dwrc/

Title: *A Nutrient Management Program for Delaware Youth*

Author: Delaware Cooperative Extension

Description: This curriculum, designed for teachers to help give youth a broad understanding of complicated nutrient management issues includes the following concepts:

1. Why the fate of our soil and water matters; importance of soil and water.
2. The nature of soil composition and supply; nature of water supply; interrelationships with the human population.
3. Polluting effects of human activity on soil and water.
4. Testing for nutrient management in your own backyard.

Title: *Nonpoint Source Pollution Checklist*

Author: DNS

Description: This checklist recognizes conservation practices associated with fertilizers, pesticides, sediment, nutrients, bacteria, and stormwater runoff that help protect our drinking water supply and provide better habitat for local wildlife.

Kent County Conservation District (KCCD)

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.de.us**

Title: *Crop Residue Management Guide*

Year Published: 1992

Authors: NRCS

Description: This guide for farmers gives direction on the soil-saving value of crop residues and gives visual representations of corn and soybean residue.

Title: *Erosion Control: Non-structural Alternatives - A Shorefront Property Owner's Guide*

Authors: KCCD, NCCD, SCCD, DNREC, USACOE

Description: This booklet gives shorefront property owners some ideas on how to control erosion using non-structural alternatives. It includes why non-structural alternatives work and answers many questions including what to do about stormwater runoff, steep slopes, bank failure, vegetation, and maintenance.

Website Address:

www.dnrec.state.de.us/dnrec2000/Divisions/Water/Erosion/Erosion.htm

Title: *Native Plants for Wildlife Habitat and Conservation Landscaping*

Year Published: 2003

Authors: USFWS, Adkins Arboretum, Baltimore County, Chesapeake Bay Trust, Irvine Nature Center, Maryland Native Plant Society, NFWF, TNC, NRCS

Description: This comprehensive guide includes pictures as well as user-friendly information on native species appropriate for planting in the Chesapeake Bay watershed and adjacent coastal regions.

Website Address:

www.nps.gov/plants/pubs/chesapeake/

Title: *Riparian Areas: Implications for Management*

Year Published: 1997

Author: NRCS

Description: This booklet discusses riparian area trends and disruptions, implications for management, and benefits of riparian areas.

Kent County Conservation District (KCCD)

Title: *Tillage Options for Conservation Farmers*

Year Published: 1989

Author: NRCS

Description: This brochure for farmers describes the various conservation tillage techniques (no-till, mulch-till, ridge-till, strip-till) available for use. Keeping their own specific needs, equipment, skills, and land in mind, farmers also can design an individualized tillage system by referring to this brochure.

Also use and distribute information from:

- *Managing Nutrients for your Turf Grass and Lawns* (See Nutrient Management Commission)
- *Nutrient Best Management Practices* (See Nutrient Management Commission)

Kent County Cooperative Extension

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**For further
information on
this organization
and its
publications,
consult the
following website:**

**[ag.udel.edu/extension
/kent/index.htm](http://ag.udel.edu/extension/kent/index.htm)**

Title: *Dealing with Drought in the Landscape*

Author: Delaware Cooperative Extension

Description: This booklet discusses the benefits of a thriving landscape, plant water needs, plant responses to drought, ways of conserving water in the landscape, water reduction requirements and listings of drought-tolerant plants.

Website Address:

ag.udel.edu/extension/information/hyg/DroughtBrochure.pdf

Title: *Delaware Nutrient Management Notes*

Year Published: 2000

Authors: Delaware Cooperative Extension, NMC

Description: The following editions of this newsletter are used by the Kent Cooperative Extension as follows:

- August - discusses what cover crops are, why they are important, where they should be used, and which species are best at nutrient reduction.
- July – discusses who needs animal waste management plans, components of a plan, when and how often to file a plan, who is qualified to write a plan and who will be privy to plan content.
- May – discusses why nutrient management on lawns is important, the basics of lawn fertilization, why nitrogen management is important, improving nitrogen management in corn, the pre-sidedress soil nitrate test, and the leaf chlorophyll meter.
- March – discusses what a nutrient management plan is, what the goals of the plan are, and what the content of a plan has to be.

Website Address:

www.state.de.us/deptagri/nutrients/nm_newsletter.htm

Title: *Native Plants for Delaware Landscapes*

Authors: University of Delaware Botanic Gardens and College of Agriculture and Natural Resources

Description: This pamphlet discusses what a native plant is, why they are important and lists several native plants for use in Delaware.

Website Address:

ag.udel.edu/extension/information/hyg/NativePlantsforDE.pdf

Kent County Cooperative Extension

Title: *Nonpoint Source Fact Sheets – Water Quality – It's Not Just a Drop in the Bucket – You Can Make a Difference*

Year Published: 1989

Authors: Delaware Cooperative Extension, NCCD, KCCD, SCCD, USEPA, DNREC, DNS, UD

Description: This series of 11 brochures covers the following topics:

1. How It Works – introduces the entire series of brochures with information on the water cycle.
2. Fertilizer Basics – describes how nutrients affect water quality, the process of soil testing, types of fertilizer, alternative nutrient sources, tips when purchasing fertilizer, and how much fertilizer to use based on plant type.
3. Fertilization Application and Equipment Calibration – teaches how to calibrate your spreader; different application techniques; how to time fertilizer applications; general fertilizer tips; and tree, shrub and lawn fertilizing tips.
4. Pesticide Application, Equipment Calibration and Spray Patterns – discusses application equipment, calibrating sprayers and spray patterns.
5. Pesticide Basics – gives tips on purchasing pesticides, mixing pesticides, applying pesticides correctly, disposal of pesticides and gives safety recommendations on working with pesticides.
6. Pest Management Around Your Home – describes integrated pest management, pest control methods and how to get a program started and implemented.
7. Lawn and Landscape Care Companies – explains what questions you should ask a company and what things you should look for in a company.
8. Landscape Design for Water Conservation – mentions what you should know before starting landscape design and gives ideas to implement in your yard.
9. Plant Selection for Water Conservation – discusses specific plants that are applicable to create a drought tolerant landscape.
10. Landscape Management – discusses landscape planning, the planting process, maintenance, water requirements and watering methods for yards.
11. Lawn Management for Conservation – illustrates how to choose lawn areas, select species, water the area, and gives conservation tips.

Website Address: ag.udel.edu/extension/information/nps/nps_home.html

Title: *Recommended Trees and Shrubs for Sussex County Buffer Zones*

Year Published: 1997

Author: Delaware Cooperative Extension

Description: This fact sheet lists trees suitable for Sussex County buffer zones.

Website Address: ag.udel.edu/extension/information/hyg/hyg-94.htm

Kent County Cooperative Extension

Title: *The Benefits of Planting Trees around Poultry Farms*

Year Published: 2001

Author: Delaware Cooperative Extension

Description: This fact sheet for poultry farmers discusses why trees should be planted around poultry houses, distances away from houses that trees should be planted, what types of trees that should be used, maintenance requirements, and technical and financial assistance.

Website Address: www.rec.udel.edu/Poultry/tree_buffer.pdf

Title: *Trees for Delaware*

Author: Delaware Cooperative Extension, Delaware Center for Horticulture, Delaware State University

Description: This booklet thoroughly discusses the benefits of trees and the correct way to plant and maintain your trees. Also includes a tree selection guide to help you decide which species are best for your land.

Kent County Department of Public Works

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**For further
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and its
publications,
consult the
following website:**

www.kentcountypw.com/index.html

Title: *Dollars Down the Drain*

Authors: Small Flows Clearinghouse

Description: This video for homeowners highlights components of a standard septic tank system and the routine maintenance required to ensure the system functions properly. It identifies family household procedures that can extend the life of the system, such as conserving water and restricting substances washed down the drain. The video also discusses problems that could arise when proper use and maintenance are neglected.

Title: *Fats, Oil and Grease (FOG) Best Management Practices Manual*

Authors: Kent County Department of Public Works

Description: This manual discusses best management practices for kitchen staff and employees who work with fats, oil and grease indoors and outdoors and includes do's and don'ts when working with fats, oils and grease.

Website Address:

www.kentcountypw.com/FOG%20BMP%20Manual.pdf

Title: *PSATS: Down the Drain*

Authors: Small Flows Clearinghouse

Description: This video for homeowners presents good maintenance practices by documenting one family's septic system failure. As the narrator discusses how a septic system works, animated graphics and diagrams illustrate the basic design and soil absorption and treatment processes. The video emphasizes the need for maintenance and management, including regular inspection and pumping of the septic tank.

Title: *PSMA Protocol: Inspecting On-lot Wastewater Treatment Systems*

Authors: Small Flows Clearinghouse

Description: In this video created for septic system inspectors and contractors, a certified inspector explains what an inspection entails, taking the viewer through a Pennsylvania Level 1 inspection of a septic system. This includes system components, equipment used to perform the inspection, signs of a working system, and direct and indirect indications of deterioration or failure. The video also discusses sand mounds as alternatives to conventional septic systems.

Kent County Department of Public Works

Title: *Septic Systems Conventional On-site Systems*

Authors: Small Flows Clearinghouse

Description: This video for homeowners discusses conventional septic system components, using computer enhancement to show how water goes through the system. Wastewater professionals explain what they do and why it is important. The video begins with a discussion of ways in which people use water and create wastewater. Throughout the video, regular care, monitoring, and maintenance are emphasized, explaining how money spent on maintenance is generally much less than the cost of repairing or replacing a failed system.

Title: *Septic Systems Making the Best of Nature*

Authors: Small Flows Clearinghouse

Description: This video illustrates the use of septic tanks and rural onsite septic system components, including cesspools, seepage pits, mound systems, trenches, and soil absorption systems. It explains the necessity of inspections and the inspection process, highlighting criteria such as site location, use, permit availability, treatment methods, management, and the history of the septic system.

Title: *Septic Systems Mound Pressure/Distribution*

Authors: Small Flows Clearinghouse

Description: This video for septic system professionals introduces onsite systems, highlighting the pressure-dosed bed, or mound system, as an adjunct to a conventional septic tank. Wastewater professionals are interviewed in the video, and computer graphics provide cross-sections of the system, illustrating how wastewater goes through the system and is treated by different components. The importance of maintenance and monitoring is stressed throughout the video, with general recommendations, signs of system failure, and caveats provided.

Title: *Septic Tank Best Management Practice Manual*

Authors: Kent County Department of Public Works

Description: This manual for homeowners discusses how a septic tank works, what can go wrong, how you can tell if you have a problem, how you can protect your system and septic tank do's and don'ts.

Website Address: www.kentcountypdw.com/Septic%20Tank%20BMP.pdf

Title: *Septic Tanks Revealed*

Authors: Small Flows Clearinghouse

Description: This video shows septic system components and discusses mounds and conventional rock-filled trenches. It identifies the main reason for system failure—hydraulic overloading—followed by inadequate maintenance and improper installation or construction. The video focuses on efficient water use as a means of preventing hydraulic overloading. Helpful household tips for conserving water are discussed, along with the effects of household cleaners on septic systems.

Kent County Department of Public Works

Title: *The Adventures of Nofogman and the Kitchen Sink Monster*

Authors: Kent County Department of Public Works

Description: This children's comic book explains proper fats, oils and grease maintenance in the house to help septic systems, sanitary sewers and local streams.

Title: *Uncovering the Mystery in Your Backyard*

Authors: Small Flows Clearinghouse

Description: This short video for homeowners explains why onsite wastewater treatment options are important, and ways for homeowners to ensure their system works to protect their investment, the environment, and public health. The narration and film footage in this video cover three basic concepts:

- 1) how your septic system works,
- 2) best management practices, and
- 3) alternative technologies.

The components of the septic tank and its functions are explained and shown with animated illustrations. The video also includes discussions about the homeowner responsibility for maintenance, pumping, and water use and the do's and don'ts. Alternative systems, such as sand filters, mounds, peat filters, aerobic treatment units, and constructed wetlands are discussed as well.

Title: *Your Septic System: A Guide for Homeowners*

Authors: Small Flows Clearinghouse

Description: This video for homeowners is designed to remove the mystery about septic system maintenance. In simple and straightforward language, the video briefly illustrates how septic systems work, highlighting the septic tank, distribution box, and leachfield. The video presents basic do's and don'ts homeowners should follow to get the most out of their systems.

Naamans Creek Watershed Association

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Title: *Rain Gardens- Landscaping with an Underlying Purpose*

Authors: Naamans Creek Watershed Association

Description: This brochure details the characteristics of a rain garden, how it works, where rain gardens can be located, the benefits of rain gardens, what is involved in making a rain garden, what can go wrong in construction, which plants thrive in rain gardens and maintenance requirements.

New Castle Conservation District (NCCD)

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Title: *Amazing Soil Stories #1*

Year Published: 1988

Author: NACD

Description: This activity and comic book for 4th – 6th grade students follows the adventures of children as they discuss natural resource problems and solutions. Includes student activities and experiments under topics such as contour planting, soil erosion, sediment pollution, runoff, windbreaks and conservation practices. Teacher's guide available.

Title: *Amazing Soil Stories #2*

Year Published: 1992

Author: NACD

Description: The continuation of *Amazing Soil Stories #1*, this activity and comic book features more student activities and experiments under the topics of erosion, wastewater, pollution, and watersheds. Teacher's guide available.

Title: *Backyard Conservation – It'll Grow on You*

Year Published: 1998

Authors: NACD, NRCS, Wildlife Habitat Council

Description: This series of 10 fact sheets covers the following topics:

1. Composting – details what composting is, how you get started, which type of composting you should choose, common problems, and ways to use compost.
2. Mulching – describes the benefits of mulch, its composition, when to apply mulch, how to apply mulch, and its uses on the farm.
3. Nutrient Management – explains the process of soil testing, taking a soil test, adding and applying fertilizers and soil amendments, and management practices on the farm.
4. Water Conservation – illustrates how to conserve water in your yard, choose plants for low water use, water efficiently, install irrigation systems and use conservation practices on the farm.
5. Backyard Pond – discusses where to put a backyard pond, how to install a pond and liner, how to choose and establish plants for ponds, and maintenance and safety considerations.

New Castle Conservation District (NCCD)

6. Pest Management – describes indicators of pest problems, pest management practices, integrated pest management, and control strategies.
7. Terracing – details what materials are needed for terraces, how to build a terrace, and other options for sloped areas.
8. Tree Planting – explains how to choose, place, plant, maintain, and prune trees for conservation.
9. Wetland – illustrates where to put a wetland and how to build a wetland including establishing and choosing plants for ponds.
10. Wildlife Habitat – discusses how to plan for your wildlife habitat including steps to create habitat for wildlife, birds, butterflies and amphibians.

Website Address: www.nrcs.usda.gov/feature/backyard/

Title: *Backyard Conservation*

Year Published: 2001

Authors: NACD, NRCS, Wildlife Habitat Council

Description: This extensive booklet of activities describes how to create a conservation yard including information from the *Backyard Conservation – It'll Grow on You* fact sheets covering topics such as tree planting, wildlife habitat, ponds, wetlands, composting, mulching, nutrient management, terracing, water conservation and pest management.

Website Address: www.nrcs.usda.gov/feature/backyard/pdf/BkYdWeb6.pdf

Title: *Backyard Conservation*

Year Published: 2000

Authors: NACD, NRCS, Wildlife Habitat Council

Description: This poster of a cardinal eating berries in the winter says “Heading South this winter? She’s not. Backyard conservation can help her weather the cold.”

Title: *Backyard Stewardship – Nature Pals and Operation Backyard*

Year Published: 1996

Author: NACD

Description: This series of activity books deals with how to conserve natural resources in your backyard. *Nature Pals* is directed towards K-3rd grade and *Operation Backyard* is for 4th – 6th grade. Teacher’s guide available.

New Castle Conservation District (NCCD)

Title: *Clean Water Series*

Year Published: August 1989

Authors: DNS, DNREC, NCCD, Cooperative Extension System, Delaware State Federation of Women's Clubs

Description: This series of 4 brochures covers the following topics:

1. Water Conservation – discusses why to conserve water and things that you can do inside and outside of the home to conserve water.
2. Detergents and Phosphorus – explains why you should use less phosphorus, how you can use less and the phosphorus content in many household detergents.
3. Soil Conservation Around Your Home – describes what soil erosion is and what you can do to prevent it.
4. Septic Systems – illustrates how septic systems work, signs of septic tank trouble, tips on septic tank pumping, and things you can do to prevent septic tank problems.

Title: *Community Waters – Share the Water and The Water Connection*

Author: NACD

Description: This series of activity booklets deals with the importance of pollution-free water including *Share the Water*, targeted toward K-3rd grade and *The Water Connection* created for 4th – 6th grade. Teacher's guide is available.

Title: *Conserving Soil*

Authors: NACD, NRCS

Description: This interdisciplinary study of soil is designed for grades 6-9. It includes three units (Soils: An Overview, Managing and Conserving the Soil, and Critical Issues for the Future), five lessons (Soil Science, The Social Impact of Soils, Soil Degradation, Soil Conservation, and Six Issues in Soil Conservation) and 24 activity masters with supporting materials and activities. A teacher's guide is included.

Title: *Habitat for Life – Habitat Heroes and Habitat Network*

Year Published: 2000

Author: NACD

Description: This set of activity books allows students to learn about the importance of providing and protecting habitat for animals and how we depend on habitat networks for survival. *Habitat Heroes* is geared toward K-3rd grade and *Habitat Network* is geared toward 4th-6th grade.

Title: *In the Children's Hands – It's Your Turn and Earth's Bright Future*

Year Published: 1999

Author: NACD

Description: This set of activity books deals with the wise use of all our natural resources and how to be good stewards of the Earth. *It's Your Turn* is for K-3rd grade and *Earth's Bright Future* is for 4th – 6th grade. Teacher's guide available.

New Castle Conservation District (NCCD)

Title: *Managing Your Streamside Lands*

Authors: DNS, Delaware Forest Stewardship Committee of the DDOA

Description: This brochure describes why stream protection matters, things you can do to help protect them, important considerations when starting, landowner benefits, helpful resources and native plant suggestions for riparian ecosystems.

Title: *My Conservation Book*

Year Published: 2000

Author: Baltimore County Soil Conservation District

Description: This 32-page activity book geared toward 4th – 6th grade follows a conservation journey on how conservation districts assist landowners with soil erosion problems and other natural resource issues.

Title: *One Green Tree*

Year Published: 1990

Author: NACD

Description: This comic book for 4th – 6th grade students explains how trees benefit the environment.

Title: *Plants for a Livable Delaware*

Authors: UD, Delaware Center for Horticulture

Description: This booklet describes (including color photographs) some of the worst invasive plants found in Delaware and alternative plants that should be used instead.

Title: *Ready, Set ... Get Wet!*

Author: NRCS

Description: This 4-page activity book with experiments and activities explains the importance of wetlands for grades 3-6.

Title: *Safe Gardening in Urban Soils*

Year Published: 2004

Author: Wilmington Soil Pollution Working Group

Description: This brochure designed for urban homeowners describes steps to take when gardening with urban soils to stay safe.

Title: *Save Water*

Year Published: 1999

Author: NACD

Description: This coloring and activity book explains the importance of saving water and how to save water at home for grades K – 3.

New Castle Conservation District (NCCD)

Title: *Search for Soil*

Year Published: 2000

Author: NACD

Description: This booklet in comic book format unravels the magic of soil including conservation practices for grades 4 – adult.

Title: *Show You Care – Our Treasured Trees*

Year Published: 1992

Author: NACD

Description: This 8 page activity book for K-2nd grade students teaches the importance of trees.

Title: *Soil and Water Conservation Society Conservation Comics – Water in Your Hands, Make Room for Monsters and Wildlife on the Land, Robots of Cave Alpha-Creating a Livable Land*

Authors: Soil and Water Conservation Society

Description: This series of comic books teaches children about the importance of natural resources. *Water in Your Hands* explores the various sources of and uses for water, different types of pollution and the need to protect water resources. *Make Room for Monsters and Wildlife on the Land* shows how humans impact wildlife and their habitat and explores ecology. *Robots of Cave Alpha-Creating a Livable Land* teaches students how man has impacted his surroundings through changes to the environment dealing with environmental issues, community action, land use planning and making choices. Teacher's guides are available.

Title: *Soil Erosion by Water*

Year Published: 1994

Author: USDA Soil Conservation Service

Description: This booklet about soil erosion geared for high school students and adults includes information on why to control erosion, how erosion became a national problem, how water erodes soil and erosion control practices.

Title: *Teenage Mutant Ninja Turtles Storm Drain Savers*

Year Published: 1990

Authors: US EPA Region 5 Water Division, Santa Monica Bay Restoration Project

Description: This coloring and comic book describes why we shouldn't dump material into storm drains.

Title: *The Gift of Trees – Trees and Me, We Need Trees and Tree Lab*

Year Published: 2002

Author: NACD

Description: This set of three children's activity books includes many activities (crosswords, experiments, hidden pictures, and comics) to help teach the importance of trees. *Trees and Me* is for grades K-2nd, *We Need Trees* is for 3rd and 4th grade and *Tree Lab* is for 5th and 6th grade. A teacher's guide is also available.

New Castle Conservation District (NCCD)

Title: *The Living Soil – Soil Story, Wonders of Soil and It All Starts with Soil*

Year Published: 2004

Author: NACD

Description: This set of three children's activity books include many activities for kids to learn about soil including word scrambles, experiments, games, crosswords and questions. This series specifically has activities that discuss soil erosion, deposition and its causes from runoff. *Soil Story* can be used for K-1st grade, *Wonders of Soil* can be used for 2nd-3rd grade and *It All Starts with Soil* can be used for 4th and 5th grade. A teacher's guide is also available.

Title: *The Story Land for Life*

Author: NACD

Description: This children's activity poster discusses what soil is, the importance of soil, and soil deposition through the use of connect the dots, trivia questions and coloring activities.

Title: *The Water Cycle- Nature's Recycling System*

Year Published: 1999

Author: NRCS

Description: This poster includes a large graphic of the water cycle as well as information on how water is naturally recycled, water and conservation and activities for students to engage in and discuss.

Title: *The Wonderful World of Wetlands*

Year Published: 1993

Author: USDA Soil Conservation Service

Description: This activity page includes a coloring activity, find-a-word and connect the dots along with information on why wetlands are important.

Title: *Trees & Shrubs in the Mid-Atlantic States*

Year Published: 1991

Author: Forest Service

Description: This 60-page book with pictures describes why trees and shrubs are important for daily living (provide shade, clean air, aesthetics, clean water, property value, wood), wildlife habitat (provide shelter, food, raising young) and conservation (provide wind break, soil and sand stabilization).

Title: *Water and Me*

Author: NACD

Description: This 16 page coloring/activity book for grades K – 2 focuses on the importance of water.

New Castle Conservation District (NCCD)

Title: *Water a Splash in Class*

Author: NACD

Description: This activity book for 4th – 6th graders deals with watersheds and the importance of water in the environment. A teacher's guide is available.

Title: *Watershed Health – Harmony a Partnership with a Healthy Land*

Year Published: 1995

Author: NRCS

Description: This poster depicts and describes watersheds, watershed interactions, and tips to keep your watershed clean under the topics of lawn care, composting, new construction and household hazardous waste.

Title: *Water Resources Education Initiative Series*

Authors: USGS, Bureau of Reclamation, DOI, National Science Teachers Association, USEPA, BLM, USACOE

Description: This set of posters (grade school and middle school editions) covers the following topics:

- Watersheds-Where We Live – includes information, large diagram and activities on watersheds, flood plains, watershed management and floods.
- Groundwater-The Hidden Resource – includes information, large diagram and activities on ground water, permeability, and recharge/discharge areas.
- How Do We Treat Our Wastewater? – includes information, large diagram and activities on wastewater treatment processes such as septic tanks, filters, wetlands and composting.
- Water Quality-Potential Sources of Pollution – includes information, large diagram and activities on point and nonpoint source pollution.
- Water-The Resource that Gets Used and Used for Everything – includes information, large diagram and activities on the uses of water.
- Wetlands: Water, Wildlife, Plants and People – includes information, large diagram and activities on types of wetlands and what wetlands do.

Website Address: water.usgs.gov/outreach/OutReach.html

Title: *Wetlands A Heritage to Preserve*

Year Published: 1993

Author: USDA Soil Conservation Service

Description: This brochure discusses wetlands, their benefits and what to do if you think you have a wetland on your property.

Title: *Wildflowers and Native Plants*

Year Published: 2000

Author: NACD

Description: This comic book describes the benefits of wildflowers and native plants in the landscape.

New Castle Conservation District (NCCD)

Title: *Wonders of Wildlife – Wildlife Parade and It's a Wild World*

Year Published: 1998

Author: NACD

Description: This series of activity books deal with wildlife, their habitat needs, habitat destruction and what can be done to combat this destruction. *Wildlife Parade* is for K-3rd grade and *It's a Wild World* is for 4th – 5th grade.

Title: *Your Hometown Clean Water Tour*

Year Published: 1998

Author: USDA

Description: This activity poster gives children an idea about things they can do to help keep their water clean and includes an H₂O IQ test.

Title: *Your Stormwater Pond- Attractive Asset or an Eyesore?*

Author: DNREC

Description: This brochure helps communities to manage their stormwater ponds including information on what ponds do; problem solving tips for algae, mosquitoes and waterfowl; liability and safety; and best management practices.

Also use and distribute information from:

- *Nonpoint Source Fact Sheets – Water Quality – It's not just a drop in the bucket – You can make a difference* (See Kent County Cooperative Extension)
- *Trees for Delaware* (See Kent County Cooperative Extension)

New Castle County Cooperative Extension

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**For further
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publications,
consult the
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**[ag.udel.edu/extension
/ncc/index.html](http://ag.udel.edu/extension/ncc/index.html)**

Title: *Home Gardening Publications Order Form*

Authors: Delaware Cooperative Extension and various other authors

Description: This order form includes many home gardening publications including information on ornamental species, water quality for plants, wildlife, lawns, fruit and vegetable gardens, and household/landscape pests. Ask for the order form to view all publications but listed below are those that are of nonpoint source pollution interest:

- Fertilizing Ornamental Plantings
- Some Drought Resistant Perennials
- Native Plants for Delaware Landscapes
- Benefits of Trees

Title: *How to Take a Soil Sample*

Author: University of Delaware Soil Testing Laboratory

Description: This brochure explains the proper procedure to take to collect a soil sample for testing.

Website Address:

ag.udel.edu/other_websites/DSTP/forms/How%20to%20sample%20-%20L&G.pdf

Also use and distribute information from:

- *Dealing with Drought in the Landscape* (see Kent County Cooperative Extension)
- *Nonpoint Source Fact Sheets – Water Quality – It's not just a drop in the bucket – You can make a difference* (See Kent County Cooperative Extension)

New Castle County – Department of Special Services (NCC)

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**For further
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and its
publications,
consult the
following website:**

**[www.ncc-
swnpdes.com/index
2.htm](http://www.ncc-swnpdes.com/index2.htm)**

Use and distribute information from:

- *NPDES Stormwater Quality Program* (See Department of Transportation)
- *Put on your detective hat...* (See Department of Transportation)
- *What flows down the storm drain ends up here* (See Department of Transportation)

Partnership for the Delaware Estuary (PDE)

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**For further
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and its
publications,
consult the
following website:**

www.delawareestuary.org

Title: *Clean Water Theater Presents "All Washed Up"*

Year Published: 2003

Author: PDE

Description: Nestled on the bank of an urban river, a park is especially dear to old Mr. Rivers who once played there as a young boy, and who now considers it a privilege to look after his "lady". Two teens, Brooke and Derek, use the park as their favorite hangout...a place to get away from the pressures, crowds and hectic pace of their lives. These two worlds collide when Mr. Rivers takes the opportunity to share his knowledge of land use and clean water with Brooke and Derek. This children's video is 28 minutes in length.

Title: *Delaware Estuary Water Education Resource Guide*

Year Published: 2003

Authors: PDE, Philadelphia Water Department

Description: This directory for educators lists materials and programs available through local non-profit organizations and governmental agencies on topics relating to water resources.

Title: *Exploring the Delaware Estuary*

Year Published: 2002

Author: PDE

Description: This 8 minute video discusses what the Delaware Estuary is, how actions on land impact environmental health and what residents can do to help.

Title: *Fact Sheets*

Year Published: 2002

Authors: PDE, Delaware Estuary Program

Description: This series of 8 different fact sheets are described as follows:

1. Household Hazardous Waste Fact Sheet – explains what hazardous waste is, why it is important to properly dispose of hazardous waste, what you can do to prevent pollution, important contact information and examples of household hazardous wastes.
2. Water Conservation Fact Sheet – discusses why water conservation is important to the Delaware Estuary and how you can help to conserve water.

Partnership for the Delaware Estuary (PDE)

3. Nonpoint Source Pollution Fact Sheet – details what nonpoint source pollution is, why controlling nonpoint source pollution is so important and what you can do to reduce nonpoint source pollution.
4. Conservation Landscaping Fact Sheet – illustrates conservation landscaping, why it is an important technique and how to get started.
5. Native Plants – describes why native plants are important, what exotic invasive plants are, how you can incorporate local native plants into your landscape and where can you purchase native plant species.
6. Examples of Native Plants of the Delaware Estuary Region – lists examples of plants native to the region.
7. Nontoxic Solutions for Landscaping – explains that what we put on the land ends up in our waterways and discusses ways to reduce use of chemicals on landscaped areas.
8. Creating Habitats to Attract Wildlife – gives steps to improve local habitats and attract wildlife such as butterflies, hummingbirds, squirrels, chipmunks and other small mammals, song birds and amphibians.

Website Address: www.greentreks.org/delawareestuary/freestuff.htm

Title: *Help Keep Our Land Clean and Water Safe - Pick Up After Your Dog*

Authors: PDE, Philadelphia Water Department, Pennsylvania Department of Environmental Protection, Pennsylvania Coastal Zone Management Program, Laffey-McHugh Foundation

Description: This brochure describes what dog waste can do to water and what simple things you can do to prevent that type of pollution.

Title: *No Dumping - Drains to River Curb Marker*

Description: This plastic marker is used to label storm drains with adhesive, educating citizens on storm drain maintenance.

Title: *The Scientific Characterization of the Delaware Estuary*

Year Published: 1996

Author: Delaware Estuary Program

Description: This comprehensive report discusses a complete scientific characterization of the Delaware Estuary including an overview of status and trends, physical characteristics, historic use, land use, water quality, toxic substances, living resources and their habitat, and fish and fisheries.

Partnership for the Delaware Estuary (PDE)

Title: *Tip Cards*

Authors: PDE, Philadelphia Water Department

Description: This series of 4 fact cards describes different nonpoint pollution problems, why they are problems and what you can do to help prevent them. The titles of each card are as follows:

1. When your car's leaking oil on the street, remember it's not just leaking oil on the street.
2. When you're washing your car in the driveway, remember you're not just washing your car in the driveway.
3. When you're fertilizing the lawn, remember you're not just fertilizing the lawn.
4. When your pet goes on the lawn, remember it doesn't just go on the lawn.

Website Address: www.greentreks.org/delawareestuary/freestuff.htm

Also use and distribute information from:

- *Clean Water Begins and Ends with You!* (See Department of Transportation)
- *Let's Learn About Water!* (See Department of Transportation)
- *DelDot...Working to Protect Delaware's Waterways* (See Department of Transportation)

Sussex County Research and Education Center

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**For further
information on
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and its
publications,
consult the
following website:**

www.rec.udel.edu/

Title: *A Nutrient Management Bibliography*

Year Published: 2003

Authors: J.T. Sims and M.C. Paulter, UD Department of Plant and Soil Sciences

Description: This bibliography provides a summary of the research and education publications on nutrient management now available from the faculty and staff of the University of Delaware College of Agriculture and Natural Resources.

United States Department of Agriculture – Natural Resource Conservation Service (NRCS)

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For further information on this organization and its publications, consult the following website:

www.de.nrcs.usda.gov/

Title: *Conservation Buffers Work...Economically and Environmentally*

Year Published: 2000

Author: USDA

Description: This fold-out brochure for farmers describes how buffers protect your land and visually demonstrate your commitment to conservation. It describes the value of buffers, types of buffers and programs that can help you install conservation buffers.

Website Address:

www.nrcs.usda.gov/feature/buffers/pdf/BufferBr.pdf

Title: *The Maintenance of Residential Stormwater Management Areas*

Year Published: 2000

Author: NRCS

Description: This booklet is prepared for homeowner associations and residential and commercial property managers to help them understand the basic maintenance needs for stormwater management areas.

Website Address:

www.ecswcd.org/docs/SWM_Areas_NRCS.pdf

Also use and distribute information from:

- *Backyard Conservation – It'll grow on you* (See New Castle Conservation District)
- *Backyard Conservation* (See New Castle Conservation District)
- *Backyard Conservation* (See New Castle Conservation District)

United States Geological Survey (USGS)

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**For further
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and its
publications,
consult the
following website:**

md.water.usgs.gov/

Title: *New Studies Initiated by the U.S. Geological Survey – Effects of Nutrient Enrichment on Stream Ecosystems*

Author: USGS

Description: This document summarizes an intensive study of nutrient enrichment (elevated concentrations of nitrogen and phosphorus) in streams in five agricultural basins across the Nation including the Delmarva Peninsula. This study is providing nationally consistent and comparable data and analyses of nutrient conditions, including how these conditions vary as a result of natural and human-related factors, and how nutrient conditions affect algae and other biological communities.

Title: *Water Quality in the Delmarva Peninsula 1999-2001*

Author: USGS

Description: This report contains the major findings of a 1999-2001 assessment of water quality in ground water and streams in the Delmarva Peninsula. Water quality is assessed at many scales (from local ground-water flow paths to regional ground-water networks and in surface water) and is discussed in terms of local, state and regional issues.

**University of Delaware – Institute for Public Administration –
Water Resources Agency (WRA)**

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**For further
information on
this organization
and its
publications,
consult the
following website:**

www.wr.udel.edu

Title: *A Watershed Restoration Action Strategy (WRAS) for the Delaware Portion of the Christina Basin*

Year Published: 2003

Author: WRA

Description: This extensive report describes the watershed environment of the Christina Basin; the water quality problems found; rates the stream water quality, stream habitat and watershed health of all the subwatersheds; and provides a recommended watershed restoration action strategy for each subwatershed in the basin.

Website Address:

www.wr.udel.edu/publications/index.html

Title: *BasinScapes*

Authors: Chester County Conservation District, WRA, BVA

Description: This set of 6 booklets for homeowners (each with a home audit checklist) describes natural landscaping in the Christina Basin under the following topics:

- *BasinScapes for Wildlife Habitat* – details what BasinScapes is and the appropriate habitat considerations that are needed including specific information on trees and meadows.
- *Creating Landscape Diversity* – explains urban watersheds, landscaping and gardening without a yard, alternatives for lawn areas and other gardening opportunities outside of the lawn.
- *BasinScaping to Conserve Water* – illustrates the importance of water conservation, how to reduce outdoor water use, how to provide water for wildlife and how to water efficiently.
- *Conservation Landscaping* – describes conservation landscaping and its importance, lawn alternatives, tree and shrub selection, taking a soil sample, fruit and vegetable gardening, and a checklist of risk factors for lawn care.
- *Using Beneficial Plants* – details what beneficial plants are and their importance, invasive plants, using beneficial plants in a home landscape and examples of recommended beneficial plants.
- *Integrated Pest Management* – explains what integrated pest management is, pest prevention, management practices, biological controls, timing control measures and pesticide use.

**University of Delaware – Institute for Public Administration –
Water Resources Agency (WRA)**

Title: *Field Measurements of Non-Point Source Pollutant of Stormwater BMPs in the UD Experimental Watershed*

Year Published: 2004

Author: DWRC Intern, Kathleen Cormier

Description: On the University of Delaware Campus student researchers sought to examine the pollutant removal efficiency of several installed stormwater BMPs. This report obtains efficiency data for those stormwater BMPs already installed on the University of Delaware campus. Stormwater runoff was collected at designated inflow and outflow stations in two stormwater BMPs—a bioretention site and a combination wetland swale.

Website Address: www.wr.udel.edu/publications/index.html

Title: *Inland Bays Watershed Game*

Description: This board game is designed to teach children information about the water quality, habitat and health of the Inland Bays Watershed. To save the watershed and win the game, players must use dice to follow a path and answer questions about water resources along the way.

Title: *Source Water Protection Manual for the Local Governments of Delaware*

Year Published: 2004

Author: WRA

Description: This extensive manual focused towards local decision makers discusses source water protection in the following areas – enabling legislation and mapping; recommended protection practices including land use tools, sediment and stormwater control BMPs, agricultural BMPs and nonregulatory tools; and implementation strategies for success including funding, prioritizing, and partnerships.

Website Address: www.wr.udel.edu/publications/index.html

Title: *Ten Facts about the Christina Basin*

Author: WRA

Description: This brochure teaches readers the top 10 facts that they should know about the Christina Basin and includes information on how to protect the important water resources in the area.

Title: *White Clay Creek Watershed Game*

Description: This board game is designed to teach children information about the water quality, habitat and health of the White Clay Creek Watershed. To save the watershed and win the game, players must use dice to follow a path and answer questions about water resources along the way.

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