

What Else Did We Accomplish?

Emergency Response

Incident Management Teams are crucial to the safe control of wildfires and the management of large-scale emergency response incidents. Our water quality team assisted in these incidents for 2004:

- Corapeake Road wildfire in the Great Dismal Swamp National Wildlife Refuge
- Hurricane Charley
- Fire Prevention & Education Team leader in southern California
- Hurricane recovery in Florida



River Basin Forestry Facts



- We provide our sister agency, the N.C. Division of Water Quality, with forestry statistics and information for each of the 17 river basins in North Carolina
- Each year, the DWQ revises several basin-wide plans.

In 2004, we compiled information on these three river basins:

New	Cape Fear	Tar-Pamlico
Timberland Ownership: 98% Private 2% Public • 5,900 acres reforested • 673 forest management plans • 321 FPG inspections • 91% FPG compliance • One water quality forester	Timberland Ownership: 85% Private 7% Forest Industry 8% Public • 106,000 acres reforested • 5,800 forest management plans • 4,111 FPG inspections • 96% FPG compliance • Two water quality foresters	Timberland Ownership: 68% Private 18% Forest Industry 14% Public • 92,000 acres reforested • 4,600 forest management plans • 2,873 FPG inspections • 96% FPG compliance • Three water quality foresters

What will 2005 bring?.....Tune in next year to find out!

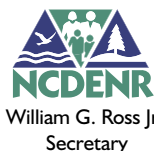
- Kick-off Purlar Creek stream restoration
 - Continue forestland and stream corridor protection efforts
 - Bridgemat Loan and Education Project expanded statewide for the first time!
 - Head down the home stretch on the Forestry BMP Manual revision
 - Begin paired-watershed five-year BMP effectiveness monitoring study
 - Release the Final Report for the 2000 - 2003 BMP Implementation Survey, and start-up of Round 2 surveys
 - Produce two training and education videos on forestry BMPs for stream crossings
 - Publish first-ever comprehensive teaching module on non-point source and water quality
 - Assist DWQ with basin-wide water quality plans for the French Broad and Roanoke River basins
-and much, much, more!



Michael F. Easley
Governor

For updates, visit the Water Quality Newsdesk on our Web site: www.dfr.state.nc.us where you can also sign up on the 'ForestryNPS' e-mail list

500 copies of this public document were printed at a cost of \$746.58 or \$1.49 each 7/05



William G. Ross Jr.
Secretary

2004 YEAR IN REVIEW

Success Stories & Accomplishments

North Carolina Division of Forest Resources Water Quality Program & Non-Point Source Unit



Hooker Falls on the Little River, Dupont State Forest

In 2004, we secured a grant from the N.C. Division of Water Resources to restore and stabilize the river bank at Hooker Falls. The grant allows us to improve water quality and provide safe public access to one of the many waterfalls on the state forest.



A set of DFR's steel bridgemats in use.

We provide steel or wood mats to loggers to protect streams during harvest activities.

All mats are funded through federal water quality protection grants.



NONPOINT SOURCE
MANAGEMENT PROGRAM
Section 319(h) of the Clean Water Act
319 GRANT



www.dfr.state.nc.us



North Carolina
Non-point Source
Program

We are committed to protecting the state's forest resources so that they will produce the best quality water for our health, environment and economy.

The Division of Forest Resources Water Quality and Non-Point Source programs and our partners work together to protect and restore water quality and educate people about how we can meet society's needs for healthy forests.

EDUCATION

Information, Education and Outreach



Arbor Day seedling giveaway
Neuse River Day in New Bern for third year
Smokey Bear's 60th birthday!
North Carolina State Fair

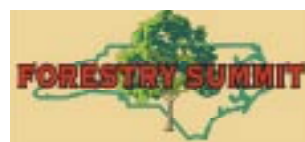
**A new partnership with Wake County
Department of Parks, Recreation & Open Space**

Forestry Summits: Sustaining Working Forests

Critical support roles for two forestry summits
Nearly 1,000 attendees

Firsthand knowledge shared by landowners...
for landowners

Final report is available on the DFR Web site:
www.dfr.state.nc.us



BMP Projects and Training

200 loggers and other attendees trained

at our BMP demonstration site at Rendezvous Mountain Educational State Forest that is funded with a USEPA Non-point Source 319 Grant



50 loggers obtained continuing education credits from training provided by our Mount Holly water quality and forester. This came during a BMP and forestry bus tour.

More than two dozen loggers attended a field tour in Cleveland County hosted by our water quality forester to learn about BMPs and buffers.

Technical Assistance

- Rolled out our in-house **NEW** 'WATERS' process for assisting field operations with water resources issues
- Explained forestry's role in protecting water quality to staff and elected officials of several local municipalities

Our water quality foresters and field staff assist with planning, implementation and monitoring of Best Management Practices to supplement the work required to meet the minimum standards outlined in the state's Forest Practices Guidelines (FPGs)

Forestry BMP Manual Revision

Developing a comprehensive revision to the BMP manual for the first time since its adoption in 1989

Secured grant funding from project partners APNEP and the U.S. EPA 319 Grant program

Publications

15,000 copies of **NEW Call Before You Cut** brochure with pre-harvest and water quality information for landowners

6,000 **NEW Forestry Leaflets** on buffer rules in the:

- Neuse River & Tar-Pamlico River basins
- Catawba River and mainstream lakes
- Randleman Lake watershed



Distributed **800 WaterBar BMP** newsletters to loggers across northwestern N.C.

Gave out 500 copies of **NEW U.S. Forest Service Wildland Waters** magazine at State Fair



Internet and Web Site Resources

Look under the Water Quality header on the Web site: www.dfr.state.nc.us

More than 31,000 hits on our water quality Web pages

- Added 30 photos to our pictorial Forestry Operations & Water Quality glossary
- **NEW** information and links for coastal non-point source pollution
- Loaded forestry leaflets and brochure online



- Updated "BMPs Online" for the following topic areas:
Oils, Fluids & Waste / Wetland forest road construction
Logging Decks / Access Road Entrances / Skid Trails
Streamside Management Zones

PROTECTION

Bridgemats for Stream Protection

Bridgemats are **portable wooden or steel panels** used by loggers for making temporary stream crossings

We loan mats to loggers as needed, on a first-come, first-serve basis

For 2004: 33 bridgemats loaned / 49 crossings / 1,000+ acres

- Received a \$24,000 grant for steel bridgemats in the Roanoke & Chowan river basins from the Albemarle - Pamlico National Estuary Program (APNEP)



- Published a feature article in the March edition of N.C. Forestry Association's TreeLine newsletter. Circulation is estimated at more than 3,000
- Distributed 375 copies of How To Install Dragline Mat brochures for ProLogger training workshops



Water Quality Inspections and Compliance*

- 5,950 Water Quality (FPG) site inspections statewide
- 96 percent compliance with the FPG water quality rules

*Preliminary data for 2004-figures not final

Lenoir District Water Quality Forester Roger Miller examining a stream during a timber harvest FPG inspection



Riparian Land Protection

- With our state and local funding partners, we protected 200+ acres in the Triangle metro area

- More than \$1 million provided by our partners for critical riparian forestland protection (this includes a Neuse River stream branch confirmed as habitat for the Least-Brook Lamprey, an endangered species in North Carolina).

- Completed our final report on the stabilization of 1,200 acres of land along Mountain Island Lake.

...This property, owned by local governments, is being transformed into a **NEW** educational state forest to serve people in the Charlotte metropolitan area.

This report is available at:
www.dfr.state.nc.us

Visit www.ncesf.org to learn about your educational state forest system



RESTORATION

Purlear Creek in Wilkes County

Received a \$508,000 grant from the Clean Water Management Trust Fund to help restore 4,000 feet of stream and a forest riparian buffer on Rendezvous Mountain Educational State Forest.

...Acquired **NEW** state-of-the-art Sand Wand® technology from a U.S. EPA Non-point Source 319 Grant for low-impact sediment removal as part of this project.

Little River on Hooker Falls, Dupont State Forest

Received a \$30,000 Water Resources Development Project grant through N.C. Division of Water Resources

...We will protect the forest's water resources, stabilize the riverbank and provide open and safe visitor access to the falls



cleanwater
MANAGEMENT TRUST FUND
www.cwmtf.net

**North Carolina
Division of Water Resources**
www.ncwater.org



For each project, we are glad to have as partners the technical experts of the N.C. State University Biological & Agricultural Engineering Department and Cooperative Extension