

# Other Accomplishments

## Emergency Response Agency Designation



The N.C. Division of Forest Resources was officially designated an emergency response agency by the North Carolina General Assembly during 2005.

This designation recognizes the value of DFR's long-standing incident management teams and wildfire initial attack capabilities, both of which are crucial for the safe control of wildfires and the management of large-scale emergency incidents, including storm recovery operations.



This designation came at a good time! The NCDFR dispatched several hundred personnel across the Gulf Coast during a three-month period. These personnel helped communities recover from several hurricanes, and assisted with wildfire prevention and suppression in those areas that suffered major timber damage. Interstate support continues well into 2006.

## River Basin Forestry Facts

We provide forestry statistics and information for each of the 17 river basins in North Carolina to our sister agency, the Division of Water Quality (DWQ) for its Basinwide Water Quality Plans.



Each year, the DWQ revises several of these Basinwide Plans. In 2005, we compiled information on these three river basins:

French Broad	Roanoke	White Oak
<b>Timberland Ownership:</b> 72% Private 27% Public 1% Industry • 2,850 acres reforested • 900 forest management plans • 434 FPG water quality inspections • 72% FPG compliance • One Water Quality Forester	<b>Timberland Ownership:</b> 80% Private 10% Public 10% Industry • 54,000 acres reforested • 2,600 forest management plans • 1,697 FPG water quality inspections • 93% FPG compliance • Two Water Quality Foresters	<b>Timberland Ownership:</b> 23% Private 59% Public 18% Industry • 8,065 acres reforested • 328 forest management plans • 270 FPG water quality inspections • 95% FPG compliance • One Water Quality Forester

## Additional Financial and Operating Partners in 2005



## Top Picks for 2006

- ✓ Complete and introduce the first ever revision to the N.C. Forestry BMP Manual
- ✓ Begin stream restoration construction on Purlear Creek and continue the Sand Wand work
- ✓ Initiate the monitoring phase of our five-year forested watershed BMP Effectiveness Study
- ✓ Publish the final report from the 2000-2003 statewide BMP Implementation Survey, and begin Round Two
- ✓ Produce a third BMP video, which will focus on good logging skid trail practices to protect water quality
- ✓ Implement the NPS Education Workbook I with water sampling equipment at Clemmons ESF
- ✓ Develop a master plan for the Urban Forest Watershed Protection & Education Initiative (UFWPE) while expanding our foundation of project partnerships.



Michael F. Easley  
Governor

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



William G. Ross Jr.  
Secretary

1,000 copies of this public document were printed at a cost of \$796.74 or .79 each FM NPS 01-06 03/06

# 2005 YEAR IN REVIEW

## Success Stories & Accomplishments



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



### Debris and sediment removal project begins in Rendezvous Mountain Educational State Forest

2005 marked the beginning of a five-year comprehensive stream and watershed restoration project in the foothills. With technical guidance from the Biological and Agricultural Engineering Department at N.C. State University, the N.C. Division of Forest Resources began removing excess sediment and debris from Purlear Creek.

### Cleared channel with debris and residual sediment removed.



The DFR and N.C. Department of Corrections BRIDGE labor crew program dove in and started removing the material with their ingenuity and DFR's Sand Wand® equipment, which was purchased in 2005 with U.S. EPA section 319 grant funds



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



[www.dfr.state.nc.us](http://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

- “Wake 13” Girl Scout Family Day
- National NPS Monitoring Conference
- Neuse River Day in New Bern for the 4th year
- North Carolina State Fair
- Earth Day at N.C. Museum of Natural Sciences



*In 2005, we had more than 53,000 ‘hits’ on water quality topics.*

[www.ncesf.org](http://www.ncesf.org)

[www.dfr.state.nc.us](http://www.dfr.state.nc.us)

## Carolina Log’n Demo



This logging equipment live-demonstration show attracted nearly 1,200 attendees in September. Held every other year,

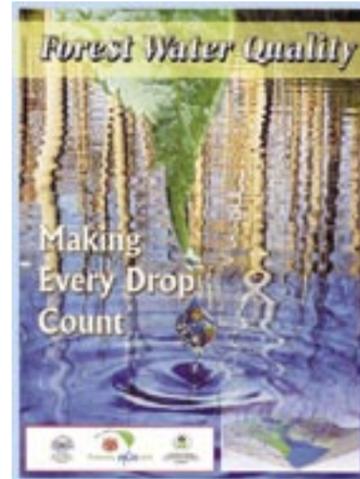
the show allows loggers a chance to see first-hand the latest technology in forest harvest equipment. A set of NCDFR’s bridgemats is seen here on display.

## Nonpoint Source Educational Workbook Module

NCDFR developed the first educational workshop module on North Carolina forestry non-point source and watershed topics for use at Clemmons Educational State Forest near Clayton.

We will develop a second workbook that includes greater detail on river basins and watersheds.

It will be published in 2007-2008.



## Stream Crossing Logger Training Videos

With USEPA 319-grant funding, we produced 700 copies of two new videos that highlight best management practices for stream crossings on forestry operations.

**These videos are now part of the required continuing education “Module 6” for the N.C. ProLogger Program.**

Next year’s BMP video will focus on logging skid trails and is expected to be used as part of the “Module 7” for ProLogger continuing education workshops.



In addition, we filled requests for copies of our videos from forestry and natural resource agencies across the nation, including California and Maine.

## Technical Assistance

Through our internal Water Resources Assessment and Technical Response Support, we evaluated and reported on what impact the future construction of U.S. Highway 70-Bypass may have on NCDFR’s forest tree seedling nursery operations in Goldsboro.

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)

# PROTECTION

## Bridgemat Education and Protection Project

Bridgemats are portable wooden or steel panels used by loggers to protect streams at temporary crossings. We loan bridgemats to loggers on a first-come, first-served basis to help protect the state’s water resources. **In 2005, NCDFR provided 38 loan events, protecting 46 stream crossings on almost 1,400 acres of timberland.**



The NCDFR also expanded our bridgemat project statewide for the first time with the addition of new steel bridgemats across our coastal Districts, seen above, staged for delivery.



The NCDFR also replaced three sets of wooden bridgemats in two mountain Districts, allowing us to retire and recycle the older wooden mats to NCDFR’s Educational State Forests and Dupont State Forest (shown left) as hiking footbridges and forestry BMP exhibits.

## Water Quality Forester Program Enhancement

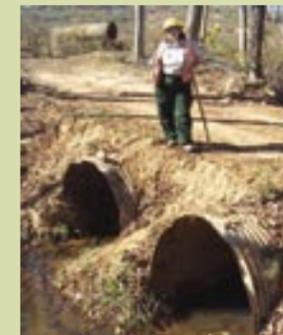
*Three new field-office Water Quality Forester positions were approved and funded, one each for NCDFR’s:*

- Elizabeth City District
- Lexington District
- Rockingham District

*Rocky Mount District Water Quality Forester Gail Bledsoe inspects culverts near a forest harvest site.*

These three new water quality foresters bring the total number across the state to 10, each based out of district field offices.

This is the first program expansion of Water Quality Foresters since its inception nearly six years ago.



## Water Quality Inspections and Technical Assistance\*

- 4,875 FPG water quality site inspections
- 93 percent compliance rate with the FPGs statewide
- Nearly 4,900 applications of best management practices on forestry operations
- 136 pre-harvest plans developed

\*Represents calendar year 2005. Some figures may not be final.

# RESTORATION



Additional site degradation near Hooker Falls on Dupont State Forest resulting from floods in the spring of 2005. DFR secured supplemental funding to have the necessary repairs made to protect this water resource. Repairs will occur in 2006-2007.



DFR / Department of Corrections BRIDGE labor crew working with Sand Wand equipment in Purlear Creek.