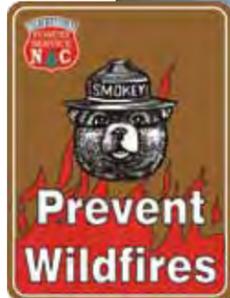


Emergency Response



Canal used as a water source for high-capacity pumps on the Evans Road Fire.

The Evans Road Fire proved to be a firefighting and water management challenge for 3 months.

Billions of gallons of water were pumped to contain the smoldering peat fire underground.

Seventy-one (71) water pumping sites were established. Water was pumped and transported a cumulative distance of 36 miles to and within the fire area, and elevated as much as 17 feet from its source origin to its delivery point on the fire, due to changes in landscape topography.

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Non-Point Source (NPS) and Water Quality Programs

Demonstrating Best Management Practices (BMPs) for low-water ford stream crossings at Rendezvous Mountain Educational State Forest in Wilkes County.

2008
Year in Review
Success Stories & Accomplishments



Our logging bridgemats were pressed into emergency service in September after 8-inches of rain from Tropical Storm Hanna washed away the only access road for the 80 residents in the Moore County community of Riverbend. Local forest rangers reacted quickly to aid the community by installing the logging bridgemats overnight (left). The bridgemats (right) were in place for one week until replaced by another, more rugged temporary portable bridge brought in from the Division of Forest Resources district office in Whiteville.



Before

- ✗ Road surface was washed away.
- ✗ Loose silt and sediment could erode into the stream.
- ✗ Approachways at the stream crossing were not firm and stable for vehicle use.

- ✓ Road is graded for better control of runoff.
- ✓ Crushed ballast on the road improves surface drainage.
- ✓ Approachways are stabilized to keep soil from being pulled into the stream by vehicle tires.
- ✓ The stream bottom is protected with a layer of stone, while still allowing water and aquatic organisms to pass through.



After

Partners and Cooperators



The North Carolina Division of Forest Resources is an equal opportunity / affirmative action employer. Its programs, activities and employment practices are available to all people regardless of race, color, religion, sex, age, national origin, handicap or political affiliation.

We are committed to protecting the state's forest resources so they can continue to produce the best quality water for the benefit of 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 resources and educate people about how we can meet society's needs for healthy forests.



Outreach Events

- Forest Landowner Summit
- Hosted the annual meeting of the Southern Group of State Foresters Water Resources Committee, joined by approximately 30 foresters from across the south
- ProLogger training workshops statewide
- Southeastern Stream Restoration Conference
- Southern Women's Show
- State Construction Conference

Compliance Inspections*

Forest Practices Guidelines Related to Water Quality (FPGs) are state regulations governing forestry activities:

- 4,616 water quality FPG site inspections
- 95% FPG compliance
- 13 water quality referrals for enforcement
- 249,000 acres in which Best Management Practices (BMPs) were implemented, recommended or observed
- 108 preharvest and site rehabilitation plans developed

*Figures represent FY08 (July 2007 - June 2008)

Education

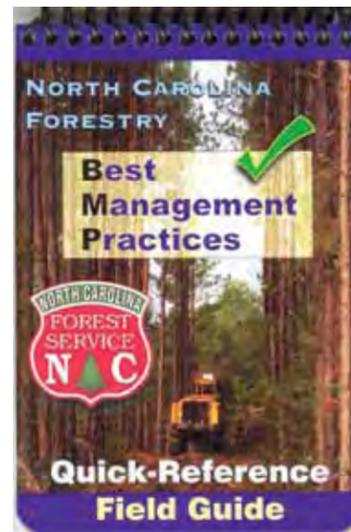
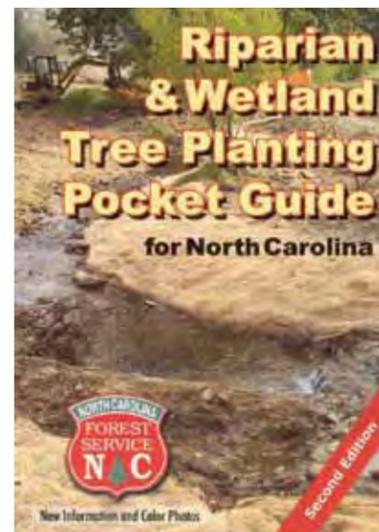


Our outdoor Water Quality Classroom at Clemmons Educational State Forest is seen (left) hosting a class of students. This classroom and its corresponding river basin deck (right) are completed and open for use.

Technical Assistance

Tree Planting Guide

- Developed an updated 2nd Edition
- Reorganized for easier field use
- Includes 12 color photos showing proper tree planting techniques
- Published more copies to meet customer demand from 1st edition



BMP Field Guide

- All-new, designed for daily use in the woods
- Over 100 color photos, showing both good and bad examples so the user can see what to do and what not-to-do when logging
- Very positive customer feedback: often heard complimented as "the best publication ever done by the Forest Service"

Restoration



Further stabilization and protection of the river bank near Hooker Falls at DuPont State Forest was completed. We added a layer of boulders (arrow) along the river's edge to prevent overwash and erosion. This additional work complemented the overall restoration that was accomplished in 2007.

Protection

A set of our retired timber bridgemats is shown at right, crossing a section of Purlear Creek that has been restored at Rendezvous Mountain State Forest. These mats allow access by Forest Rangers and demonstrate forestry BMPs.



Note the V-shaped structure installed in the stream channel, made up of a flat boulder and log. This structure directs the flowing water towards the center of the channel so the water will not erode and undercut the stream bank.

Stream Crossing BMPs



Another low-water ford stream crossing that we improved and rehabilitated utilizing BMPs to complete the work. Before the work, the soft roadbed allowed ruts to funnel runoff into the stream and limited access to a large area of the State Forest. After the work, the roadbed is firm and surface drainage is improved. Water quality is enhanced by eliminating muddy runoff and preventing sediment from washing into the stream.