



North Carolina Forest Service

An agency of the N.C. Department of Agriculture & Consumer Services

BMP Newsletter

Best Management Practices for Water Quality & Soil Conservation



This issue's cover photo shows how well rye grass seed can germinate and thrive on a well closed out skid trail in the mountains region. Note the waterbars (earthen speed bumps) up the trail keeping runoff from becoming concentrated down the trail. Nice work!

What Do N.C. Forest Service Employees Do During a Water Quality Inspection?

When N.C. Forest Service personnel become aware of a logging job, they will make a site visit. Monitoring forestry activities to promote clean water is a key agency responsibility that helps to protect, manage, and promote forest resources for the citizens of North Carolina.

Depending on the current status of the operation (actively logging or not), our personnel will approach people on site to communicate our intentions and learn more about the operation. Often times, N.C. Forest Service personnel will walk the job site and observe the effects of the operation on the land. While walking the job site, they are assessing whether the standards set forth in the [North Carolina Forest Practices Guidelines Related to Water Quality](#) are being met. They are also assessing any other applicable forestry rules.

Inside this issue:

What Do NCFS Employees Do During a Water Quality Inspection?	1
Western Region: Drinking Water Forum Attendees Tour Mountain Island Educational State Forest	2
Piedmont Region: US Fish and Wildlife Service Completes Stream Crossing Restoration Project in Montgomery County	3
Eastern Region: Hurricane Florence Shapes Forest Management and the Landscape	4
NCFS Water Quality Contacts	5
What Does This Terminology Mean?	5



Photo left: BMPs applied after working with a forest operator in the western region.

Inspecting for these rules is an important part of the visit, but providing personalized customer service through educating, consulting, and advising on BMPs is a cornerstone of our service.

Learn more about the N.C. Forest Service's inspection process on forestry sites by visiting our newly-added [webpage](#).

So now when somebody asks you, "what do N.C. Forest Service folks do about logging?"...you can refer to this link. Also don't forget the ever-popular [FAQs About Logging in North Carolina](#).

Western Region Focus

Drinking Water Forum Attendees Tour Mountain Island Educational State Forest

Upcoming Events

Oct 24 Online Webinar,
[Peers and Pros 360. Teaching
and Learning Together by
Using What Forest
Landowner Peers Have to Say](#)

Forestry agencies across the south continually demonstrate what 'good' forest management practices look like through proper management of state forests. They advocate for how forestry may be integrated into the landscape to meet multiple objectives. One of the most important products from forest management is clean water. The [Southeastern Partnership for Forests and Water](#) organized an event to discuss just that...forests and water. The event started at Mountain Island Educational State Forest with a group comprised of water professionals that explored the managed landscape. Speakers described forest management processes as well as the science and history behind how forests are sustainably managed today. In return, foresters in the crowd learned from water professionals about their needs and concerns as it pertained to water utilities.

The following day, these individuals shared opportunities for source water funding and discussed how forest management can fit into long-term watershed protection and planning efforts.



Picture above: Laura Shidal setting the stage for the tour. Picture right: N.C. Forest Service representatives leading discussion on forest management and BMPs.



Piedmont Region Focus

U.S. Fish and Wildlife Service Completes Stream Crossing Restoration Project in Montgomery County

U.S. Fish and Wildlife Biologist, Laura Fogo, led an effort to improve an aquatic habitat connection by removing a restrictive stream crossing and replacing it to meet aquatic wildlife passage, forestry, and educational objectives. Denson's Creek is home to several federally threatened and endangered species

that could benefit from the improvement.



Pictured at left is the crossing before construction began. The crossing serves as the only haul road access to a 450+ acre tract of actively managed timberland.

Working together with several partners over several years, this project was completed this past July.

The N.C. Forest Service has taken on stream enhancements and restorations in the past and knows all too well the challenges associated with this process. This is why these projects should be highlighted when completed—in addition to the many other benefits realized.

Pictured right and below is a completed view of the restoration. For more information, check out the [article written by US Fish and Wildlife Service](#).



Upcoming Events

Oct 10-12 @ Raleigh,
[NCFA Annual Meeting](#)

Oct 11-21 @ Raleigh
[North Carolina State Fair](#)

Oct 24 Online Webinar,
[Peers and Pros 360. Teaching and Learning Together by Using What Forest Landowner Peers Have to Say](#)

Oct 27 @ Schenck Memorial Forest,
[NCSU Timbersports Club Rolleo](#)

Dec 13-14 Raleigh,
[Nutrient Management Program](#)

Eastern Region Focus

Hurricane Florence Shapes Forest Management and the Landscape

There is little doubt that Hurricane Florence caused extensive damage to North Carolina's coastal plain and its impacts on the landscape will linger for years to come. Many have come from near and far to assist in the recovery and our hearts and thoughts go out to those impacted by the storm.

Hurricanes bring a tremendous amount of water that far exceed BMP and many engineering designs. Hurricane Florence deposited trillions of gallons of water across the state over a relatively short duration. If less than a foot of water can move a car, then you can expect Florence-sized events to reshape floodplains. So what needs to be done now with respect to forest management recovery efforts?

Following Hurricanes Katrina and Rita, an article was written by the US Forest Service about a strategic approach to forest management in hurricane impact zones (citation at bottom).

Upcoming Events

Oct 24 Online Webinar, [Peers and Pros 360. Teaching and Learning Together by Using What Forest Landowner Peers Have to Say](#)

Useful Links for Hurricane Recovery

[N.C. Forest Service Alerts](#)

[Ready NC](#)

[Inciweb—Hurricane Florence](#)

[Red Cross](#)

[FEMA](#)

[Returning to a Flood Damaged Home](#)



Pictured above are N.C. Forest Service personnel setting up a water pump to move floodwaters.

Authors review steps used for recovery with Hurricane Hugo and discuss the details of using salvage operations to recover value, mitigating wildfire hazard, and reforesting affected areas. They also discuss the importance of monitoring forests closely over the next 5 years to catch insect and disease outbreaks early. One optimistic view to these unfortunate events is an opportunity to examine landowner objectives and establish a new forest with those objectives in mind. It also provides an opportunity to plant species less susceptible to damage and improved structure.

[Stanturf, J.A. S.L. Goodrick, and K.W. Outcalt. 2007. Disturbance and coastal forests: A strategic approach to forest management in hurricane impact zones. *Forest Ecology and Management* 250:119-135.](#)

North Carolina Forest Service

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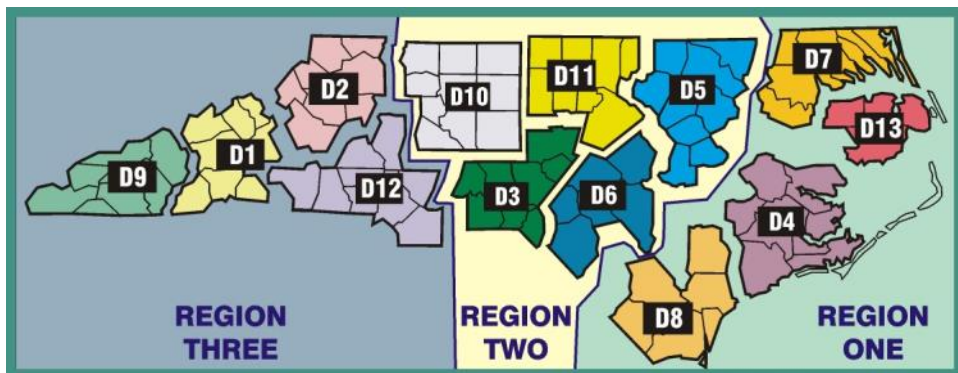
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Western Region

Western Mountains (D9, D1):
John Williams : 828-774-8362

Foothills (D2, D12):
Richard Cockerham: 704-616-0747

Piedmont Region

Northern Piedmont (D5, D10, D11 [North of I-40])
Nancy Blackwood: 336-500-3661

Southern Piedmont (D3, D6, D10 [South of I-40])
Matt Vincett: 910-334-0025

Eastern Region

Northern Coastal Plain
(D7, D13, +Beaufort and Pitt):
Cathy Gilkeson: 252-286-0881

Southern Coastal Plain
(D4 [-Beaufort and Pitt], D8):
Paul Mowrey: 252-286-0862

What Does This Terminology Mean?

We've all been there, whether we like to admit it or not. The natural resource profession can be an alphabet soup and chock-full of unfamiliar terms. Therefore the back page, bottom half of the newsletter will be dedicated to abbreviations, terms, and **your** questions related to forestry.

Major Stream Bottoms

- Larger stream than minor bottoms
- Alluvium (soil transported by water) comes from many places, which can vary greatly in soil texture and mineralogy from different types of rock/parent material.
- Tend to be more productive than minor bottoms



Minor Stream Bottoms

- Smaller/shallower stream than major bottoms
- Alluvium comes mainly from local areas and is therefore limited in textural composition
- Alluvium not as deep as what is found in major bottoms



Email your questions to
NCFS.water@ncagr.gov
with the subject line *BMP
Newsletter Question*