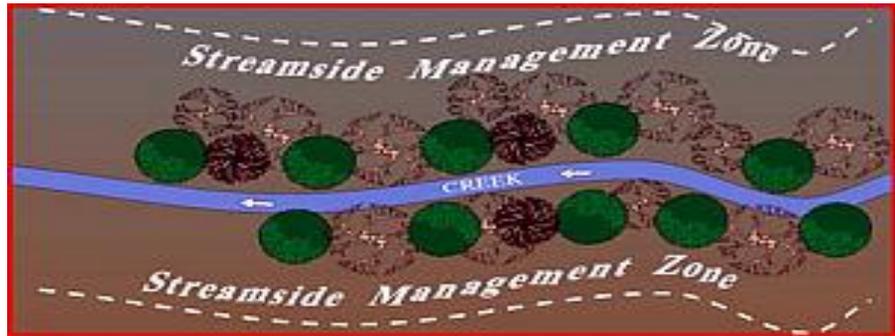




## Piedmont Region BMP Newsletter Update



### Special Edition: A Good "Zone Defense"

#### UPCOMING EVENTS

APRIL 15 @Jordan Lake Educ. State Forest: "Utilizing Woody Biomass for Energy".  
[www.biomassforestry.org](http://www.biomassforestry.org)

MAY 12 - 15 @ Blacksburg, VA. Eastern U.S. Forestry BMP Symposium & Field Tour:  
[www.bmpsymposium2014.org](http://www.bmpsymposium2014.org)

MAY 13 @ Raleigh: "Sediment, Erosion & Turbidity Control Workshop and Field Day." NCSU Soil Science Dept.  
<http://soils.ces.ncsu.edu/training/>

MAY 14-15 @ NCSU Raleigh: "Low Impact Development and Storm-EZ Training." Contact NCSU Stormwater Engineering Group.

MAY 16-18 @ Raleigh: State Fairgrounds. *Got To Be NC Agriculture Festival*.  
<http://gottobenfestival.com/>

JUNE 24 @ Raleigh:  
JUNE 25 @ Dallas:  
"Rethinking Swales and Filter Strips for Stormwater".  
Contact NCSU Stormwater Engineering Group.

March Madness is over, but a good Zone defense is still important: a Streamside Management Zone (or SMZ).

The SMZ should be considered your 'last line of defense' to protect streams, and not as your primary BMP tool. There are many BMPs to use on a forestry operation that can prevent sediment from ever reaching the SMZ in the first place.

**REMEMBER:** In North Carolina, a SMZ is *required* by the Forest Practices Guidelines regulations (15A NCAC 011 .0201) on any forestry-related, land-disturbing activity that has either an intermittent stream, perennial stream, or perennial waterbody. Review the FPG performance standards that must be achieved when establishing and maintaining a SMZ.

**ALSO TAKE NOTE:** The SMZ requirement under the statewide FPG rules says nothing about referencing any maps!

>> *If the stream is on the ground, it requires a SMZ.*

>> Don't get confused between SMZs and the additional "riparian buffer rules" that only exist in certain watersheds or river basins of North Carolina.

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## **A Good “Zone Defense”**

### How Wide Is Wide Enough for a SMZ?

That question can result in volumes and volumes of research study conclusions, discussion, deliberation and flat-out arguments. This question has been known to draw a lot of emotional responses that may, or may not, have anything to do with actual forest and water science.

Chapter 4 of the N.C. Forestry BMP Manual includes a general SMZ recommendation of 50-feet along each side of the protected waterbody. The Manual also offers a table with optional width ranges, if you wish to adjust the SMZ according to site-specific conditions.

You can choose to selectively cut timber from inside the SMZ, **but beware**, the extra soil disturbance so close to the stream only invites trouble!

***Remember, BMPs can be considered as your “risk management” tool when conducting forestry operations. Using BMPs can reduce environmental risk, operational risk, and financial risk.***



## Establishing Your SMZ

Identify where SMZs are needed before the operation starts. Don't wait for the logger to unload the tractors and say "okay, I guess we need to figure this out..."

Clearly mark the SMZ so the machine operator can see it. Ideally, use bright paint or flagging tape. And use lots of it. Frequently check behind the logger, to make sure the SMZ is being protected and not encroached upon.

If at all possible, do not cross the stream with vehicles or equipment (also refer to the FPGs for Rule .0203 on the topic of stream crossings).

If you must cut trees from within the SMZ:

- Only cut when the ground is firm and dry, to avoid rutting and compacting the soil.
- Fell trees away from the stream.
- Avoid creating wide gaps between trees.
- Leave trees in the SMZ evenly distributed.

In the piedmont, there are many water supply lakes which depend on clean streams to feed them. If you work in a water supply watershed, make sure that your SMZs offer a high level of protection to keep the drinking water clean.



*ABOVE: SMZ's on a logging job. Note the sunlight reflecting off the surface of the water in the stream.*



*RIGHT: Two large streambank trees inside a SMZ that were blown over.*

# North Carolina Forest Service

Forestry Nonpoint Source Branch  
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## District Office BMP Contacts

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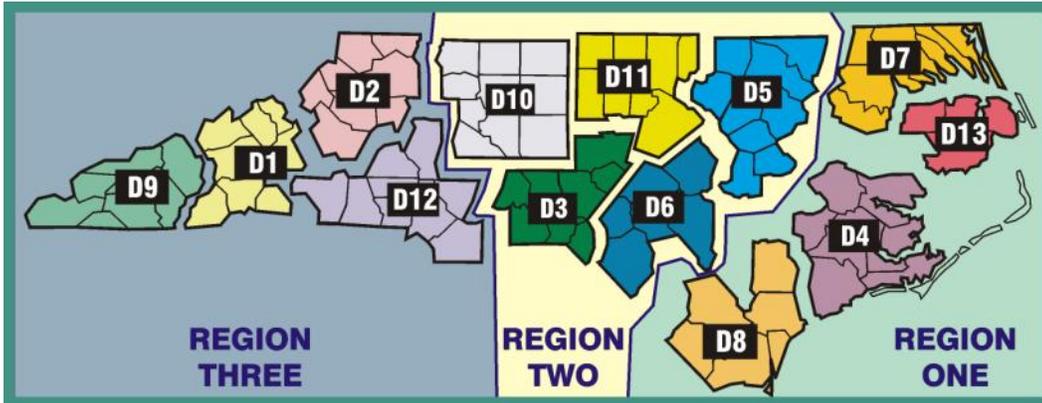
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Aaron Levine, Water Quality Forester

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Matt Vincett, Water Quality Forester

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Fayetteville: 910-437-2620  
Roger Hart, Assistant District Forester

Piedmont Region Office: R-2  
Jordan Lake: 919-542-1515  
Mark Bost, Assistant Regional Forester  
for Forest Management



### Surf The Web

Manage and Protect Your Forest - [www.ncforestservice.gov](http://www.ncforestservice.gov)  
NCD&CS Agricultural Services - [www.ncagr.gov](http://www.ncagr.gov)  
Keep Your Home Safe From Wildfire - [www.ncfirewise.org](http://www.ncfirewise.org)  
Go Out and Learn in the Forest - [www.ncesf.org](http://www.ncesf.org)  
Locate NC-Grown Farm and Forestry Products - [www.ncfarmfresh.com](http://www.ncfarmfresh.com)

## Let's Play a Game: What's Wrong With This Picture?



This photo was taken in south-central North Carolina in August 2013. This SMZ was well-marked with blue paint. But when logging was done, the SMZ was nearly totally cut. The soil is rutted. Leftover trees are damaged. Soil is exposed. Sometimes your best option may be to just leave the SMZ alone.