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UPCOMING EVENTS
AUG. 6 @ NCFA, Raleigh. NCFA Safety, Logging and Transportation Committee Meeting. Contact Jack Swanner.
AUG. 13 @ NCFA, Raleigh. NC SFI State Implementation Committee Meeting. Contact Jack Swanner.

Skid Trail Stabilization Study Results
A study in south central Virginia, led by Virginia Tech, shows the differences in how much sediment is captured from different types of skid trails, when using different methods of stabilization ground cover. One set of skid trails was cut-in with a bulldozer blade (“Bladed”), as often occurs in the foothills and mountains. The other set of skid trails was created by simply driving the equipment atop of the ground surface (“Overland”). The results were dramatic, as seen in the table below.

The take-home message is that applying leftover logging slash or laps can dramatically reduce sediment erosion. This method of skid trail stabilization is often less costly then purchasing and applying seed, mulch, fertilizer, and lime. For an electronic copy of a leaflet from the Forest Resources Association summarizing this study, contact forestry.npsunit@ncagr.gov. The table below is excerpted from FRA Technical Release No. 14-R-11, May 2014, “Skid Trail Stabilization Research and Logger Training.”

<table>
<thead>
<tr>
<th>Closure Treatment</th>
<th>Sediment (tons/acre/year)</th>
<th>Sediment Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bladed</td>
<td>Overland</td>
</tr>
<tr>
<td>Water bar only (control)</td>
<td>61.2</td>
<td>12.3</td>
</tr>
<tr>
<td>Water bar and seed</td>
<td>14.0</td>
<td>9.7</td>
</tr>
<tr>
<td>Water bar and hardwood slash</td>
<td>3.9</td>
<td>1.0</td>
</tr>
<tr>
<td>Water bar and pine slash</td>
<td>2.6</td>
<td>0.5</td>
</tr>
<tr>
<td>Water bar, seed, and straw mulch</td>
<td>1.3</td>
<td>0.8</td>
</tr>
</tbody>
</table>

BMP Focus: Summertime means... Site Preparation

BMPs aren’t just for logging.

If you are serious about reforestation, then summer is the time to prepare your tract for planting with seedlings this coming winter.

Forestry site preparation (site prep) can occur in different ways: pushing debris with dozers, tilling the soil, applying herbicide, and/or using prescribed fire. In all cases, there are BMPs to protect water quality, prevent erosion, and conserve the soil.

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**BMP Focus: Site Prep**

**How Logging Affects Site Prep**

Site prep removes or collects excess debris leftover from logging, and in some cases, ameliorates the soil conditions to improve tree seedling survival and growth potential.

A cleanly-executed logging job can eliminate the need to re-enter the site with more heavy equipment, thus reducing the risk of additional BMP concerns from more site disturbing work. For a forest owner, it may be in his or her best interest to work with the logger, possibly even paying the logger, to cut all residual stems that cannot be utilized, and leaving the site as cleanly cut as possible. Taking this ‘outside-the-box’ approach may result in better conditions for seedlings and lower costs to the forest owner.

*This stand of plantation pine timber includes numerous small hardwood trees that normally are too small to utilize, and offer minimal wildlife benefit. To maximize utilization of these smaller trees and reduce site prep costs, and overall site disturbance, an in-woods chipper may be a preferred option to use during harvesting.*

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Using self-propelled grinders or mulching machines can be a low-impact method to accomplish site prep. This method usually does not disturb the soil as much as traditional bulldozer pushing.

Even when a clean logging job is accomplished, there is usually a need and benefit for the forest owner to have a herbicide application done (with or without a follow-up prescribed burn) to temporarily control weeds and prevent undesirable tree sprouts from choking out the desirable new seedlings.

{Continued on next page}
BMP Focus: Site Prep

Site Prep in the Coastal Plain

The coastal plain of the state is probably the most frequently thought of area when foresters talk about mechanical site prep. Historically, heavy bulldozer shearing of stumps, piling and burning of debris, and bedding were done to cultivate the wet-natured soils in order to grow a forest. However, reducing overall soil disturbance is key. Conducting a clean logging job, which eliminates or reduces the need to re-enter and re-disturb the site, may be the best solution in many cases to accomplish site prep.

Conducting site prep in wetlands is especially challenging and requires careful planning and execution. There are 6 federally-mandated BMPs when conducting mechanical site prep in wetlands for establishing a pine plantation forest. These 6 BMPs were initiated in 1995 by a guidance memo produced by the USEPA and U.S. Army Corps of Engineers. The 6 BMPs are listed in Chapter 6 of NC Forestry BMP Manual.

If bedding is done on sites that are likely to be wetlands, do not “tie in” the beds with a drainage ditch or stream; doing so could inadvertently drain the hydrology of the site, and violate federal guidance rules for protecting wetlands.

When piling debris, be sure to minimize removal of the nutrient-rich topsoil. Do your best to just skim the shearing or piling blade along the ground surface, enough to push the debris but not accumulate soil. And, if a site prep burn is going to be done, lightly install the fire control line, just enough to remove excess fuel from the firebreak; digging deeply and pushing lots of soil usually isn’t needed.
Surf The Web

Manage and Protect Your Forest - [www.ncforestservice.gov](http://www.ncforestservice.gov)
NCDA&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)

**2014-2015 NCFS Seedling Catalog Available**

Obtain a copy of this year’s catalog by contacting your County Forest Ranger office, or other NCFS office. You can also download a copy from our website, ncforestservice.gov. This year’s featured tree is the Eastern Red Cedar. The NCFS provides a diversity of conifer and hardwood species that are suitable for timber management, wildlife enhancement, and water resource restoration projects.

**Learn More About Site Prep & BMPs**

Chapter 10 of the NC Forestry BMP Manual outlines recommended BMPs for each common site prep method. A copy of the Manual is available from NCFS offices and the agency’s website, ncforestservice.gov.

A series of Forestry Leaflets describing different site prep methods is also available from the website. Look under Publications >> Forest Management >> Forestry Leaflets. Each leaflet explains the reason for using each site prep method, and the intended outcomes.