



## FOREST PREHARVEST PLANNING TOOL (FPPT)

### Forest Preharvest Planning Site Summary Report

General Tract Information			
Tract ID:	22804	Date Revisit:	08-25-2014
Tract Name:		Tract Acres:	30.24
County:	Durham	River Basin:	Roanoke River Basin
NCFS Contact:	John McByde, Water Quality Forester	Physiographic Region:	Piedmont
NCFS District:	Hillsborough	Geologic Province:	Carolina Slate Belt
NCFS Contact Phone:	919-732-8105	Latitude:	36° 13' 1788206 "
		Longitude:	-78° 51' 94293 "

Environmental Regulation Considerations	
Forest Practices Guidelines (always apply):	<a href="http://forestry.nps.gov/publications/forestry/2012/leaflets/WQ11.pdf">http://forestry.nps.gov/publications/forestry/2012/leaflets/WQ11.pdf</a>
NC G.S. 77-13. Obstructing streams is a misdemeanor:	<a href="http://www.ncgs.state.nc.us/EnactedLegislation/Statutes/PDF/SectionChapter_77/0077-13.pdf">http://www.ncgs.state.nc.us/EnactedLegislation/Statutes/PDF/SectionChapter_77/0077-13.pdf</a>
NC G.S. 77-14. Obstructions in streams and drainage ditches:	<a href="http://www.ncgs.state.nc.us/EnactedLegislation/Statutes/PDF/SectionChapter_77/0077-14.pdf">http://www.ncgs.state.nc.us/EnactedLegislation/Statutes/PDF/SectionChapter_77/0077-14.pdf</a>
NCDWR Riparian Buffer Rules apply?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Buffer Rule: <u>Roanoke River Basin</u>
Riparian Buffer Rule Forestry Leaflet:	<a href="http://www.ncforestry.com/publications/forestry/2012/leaflets/WQ11.pdf">http://www.ncforestry.com/publications/forestry/2012/leaflets/WQ11.pdf</a>
Riparian Buffer Rule Administrative Code:	<a href="http://legislatio.nps.gov/forestry/2012/leaflets/WQ11.pdf">http://legislatio.nps.gov/forestry/2012/leaflets/WQ11.pdf</a>

Overall Tract Characteristics	
<b>Surface water present?*</b>	<b>DMP Manual/SMZs and Riparian Buffers</b>
USGS 1:24,000 Streams: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	DMP Field Guide SMZs and Waterways
NCOWR Classified Streams: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	DMP Manual/Stream Crossings
NCOWR Surface Water Classifications: None	DMP Field Guide Stream Crossings
	*Note: This map and report do not include streams from NRCS Soil Survey maps that may be subject to Buffer Rules.
	** Denotes a primary surface water classification.

Wetlands present?*	
National Wetlands Inventory: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<b>DMP Manual/ Silvicultural Activities in Forested Wetlands</b>
NC Coastal Area Management: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	*Note: An absence of wetlands reported in this document does not guarantee wetlands are not present on-site. Please examine the site in person to determine if wetlands are present.

Slope slopes present? = 20% or more	
Average Slope: 13% <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<b>DMP Manual/Runoff Control</b>
Minimum Slope: 2% <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	DMP Field Guide Erosion and Runoff Control
Maximum Slope: 36% <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	DMP Manual/Calculating Percent Slope

Tract ID #22804 Page 1



# What is FPPT?

The Forest Preharvest Planning Tool (FPPT) is a free, GIS-Based, Internet-Accessible Tool for NC's Forest Operators and Forestland Owners (and NCFS employees) to assist with planning of Forest Management/Forest Protection Activities.

- Founded on statewide-available GIS information pertaining to land ownership and landscape physical characteristics, including topography, soils, and surface waters.
- Based on site-specific landscape characteristics: Applicable forestry regulations and recommended forestry BMPs are produced as products for the end-user.
- Funded by a USDA Forest Service (2011) Grant.



# What are the benefits?

## Avoid problems before they happen.

- Plan SMZs and stream crossings.
- Learn which regulations are applicable for your area.
- Locate wetlands and nearby endangered species.

## Receive resources to improve your harvest.

- Find the best soils for landings and skid trails.
- Get local NCFS contact information.
- Create a detailed map of your site and receive comprehensive reports.





# FPPT outputs are not complete BMP Planning

To complement the online tool, we recommend:

- A tract inspection to validate FPPT tool outputs and fine tune BMPs planned for use.



# FPPT outputs are **not complete BMP** planning.

To complement the online tool, we recommend:

- Contact your local NCFS office for additional BMP technical assistance, particularly if FPPT reports generate “watch outs” / “warnings” concerning tract challenges.



# FPPT – Getting Started

A screenshot of a web browser displaying the North Carolina Forest Service website. The browser's address bar shows the URL "http://ncforestservice.gov/water\_quality/fppt.htm". The website header includes the North Carolina Forest Service logo and navigation links for "Home", "Contacts", "State Forests", "News And Publications", "Programs And Services", and "KIDS". The main content area features the title "Online Forest Preharvest Planning Tool" and a detailed introductory paragraph. A small thumbnail image of the FPPT interface is shown to the right of the text. Below the main text, there are sections for "RELATED RESOURCES" and "Quick Links" with various links to related documents and tools.

[NCES-Home](#) >> [Water Quality](#) >> Online Forest Preharvest Planning Tool.

## Online Forest Preharvest Planning Tool

Before beginning any timber harvesting operation, the North Carolina Forest Service recommends developing a preharvest plan. This plan should include the locations of harvest activities, information about sensitive areas found on a tract, and practices needed to prevent or reduce impacts on the natural environment. Creating and implementing a preharvest plan can improve efficiency and communications, reduce risks to water quality, and increase landowner satisfaction. A preharvest plan can also help the logger save operating costs, such as wear and tear on equipment, and additional work or rework if found out of compliance with the FPGs.



The North Carolina Forest Service has created the Forest Preharvest Planning Tool (FPPT) to assist loggers and forest landowners with preharvest planning. This online tool is a new way for forest operators and forest landowners to create customizable maps and receive site-specific reports, using current GIS data. The FPPT has an easy-to-use online interface and is free and publicly available.

Users receive helpful and detailed products, including a site summary report and a soils summary report. The site summary report will give information on applicable regulations, tract size, and links to online BMP technical assistance. The soils summary report gives the user a soils map of their tract, as well as each soil's suitability for a number of common harvest activities. The user can also create a tract map that shows the locations of harvest features such as skid trails, streamside management zones, and decks.

The FPPT is a powerful information gathering and planning tool, but should still be supplemented with a pre-harvest site inspection by the forest operator prior to the forest management action. Applicable topographic and county soil maps will still need to be reviewed.

### RELATED RESOURCES

- [Forest Preharvest Planning Tool \(FPPT\)](#)
- [FPPT User Guide](#)

### Quick Links

- [My Woodland Plan](#)
- [Burning Permits](#)
- [Dupont State Recreational Forest](#)
- [Order Tree Seedlings](#)
- [Situation Report](#)
- [Fire Weather](#)
- [Readiness Plans](#)
- [Educational State Forests](#)
- [N.C. Firewise](#)
- [Strategic Plan](#)
- [Forest Action Plan](#)



# FPPT - Getting Started

https://www.ncforestatlas.com/ North Carolina Departme... NCFS Apps - Login

File Edit View Favorites Tools Help



## NCFS Preharvest Planning Tool

[Home](#) [Support](#) [Contact](#) [Disclaimer](#)

Login

Log In

User Name:

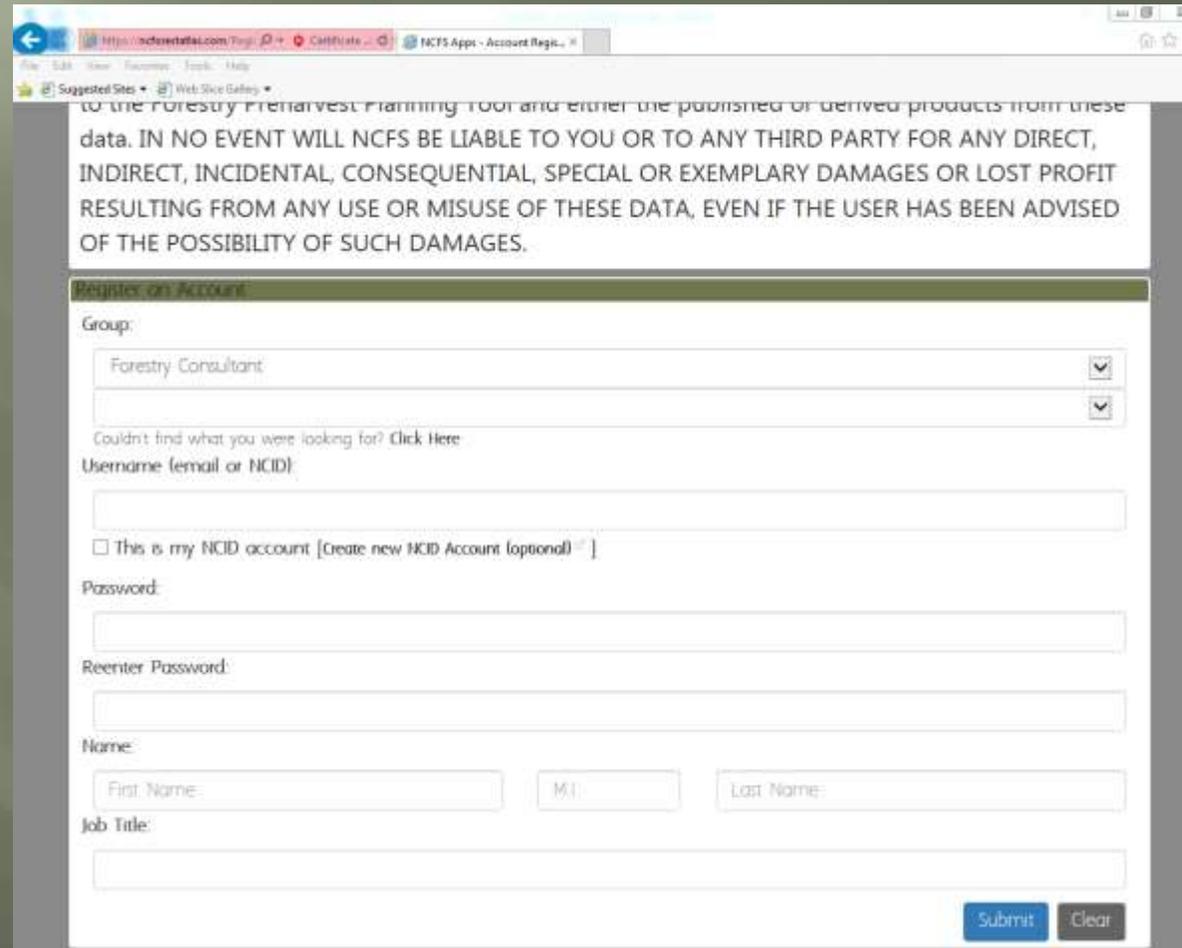
Password:

[Register Account](#)  
[Forgot Your Password?](#)



# FPPT – From The Customers' Viewpoint

- Login Page
  - ✓ Users must create an account & login
- Group access
  - ✓ Existing public database of professional organizations
- NCID Connectivity
  - ✓ State employees: NCID username and password



The screenshot shows a web browser window displaying the 'Register an Account' page for the NCFS App. The page includes a disclaimer at the top, a 'Group' dropdown menu with 'Forestry Consultant' selected, a 'Username (email or NCID)' field, a checkbox for 'This is my NCID account', and fields for 'Password', 'Reenter Password', 'Name' (split into First Name, MI, and Last Name), and 'Job Title'. A 'Submit' button and a 'Clear' button are at the bottom right.

to the Forestry Preharvest Planning Tool and either the published or derived products from these data. IN NO EVENT WILL NCFS BE LIABLE TO YOU OR TO ANY THIRD PARTY FOR ANY DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES OR LOST PROFIT RESULTING FROM ANY USE OR MISUSE OF THESE DATA, EVEN IF THE USER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Register an Account

Group:

Forestry Consultant

Couldn't find what you were looking for? [Click Here](#)

Username (email or NCID):

This is my NCID account [Create new NCID Account (optional)]

Password:

Reenter Password:

Name:

First Name: MI: Last Name:

Job Title:

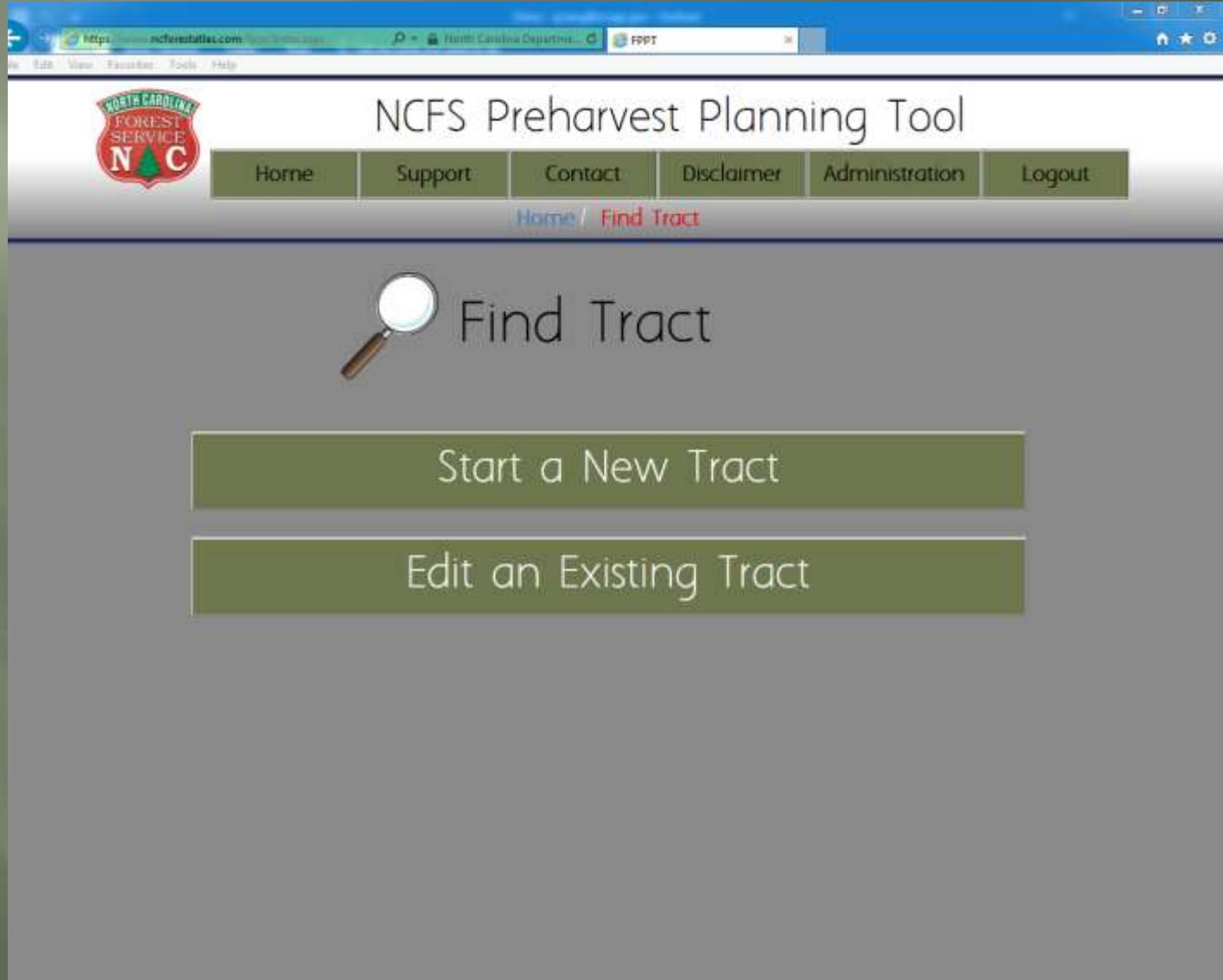
Submit Clear





- This information is provided as a public service and is for noncommercial purposes only
- We make no warranties about the accuracy, completeness, reliability, or suitability of the information
- Property boundaries are approximate
- By using the tool, you release the NCFS from any liability associated with its use or misuse

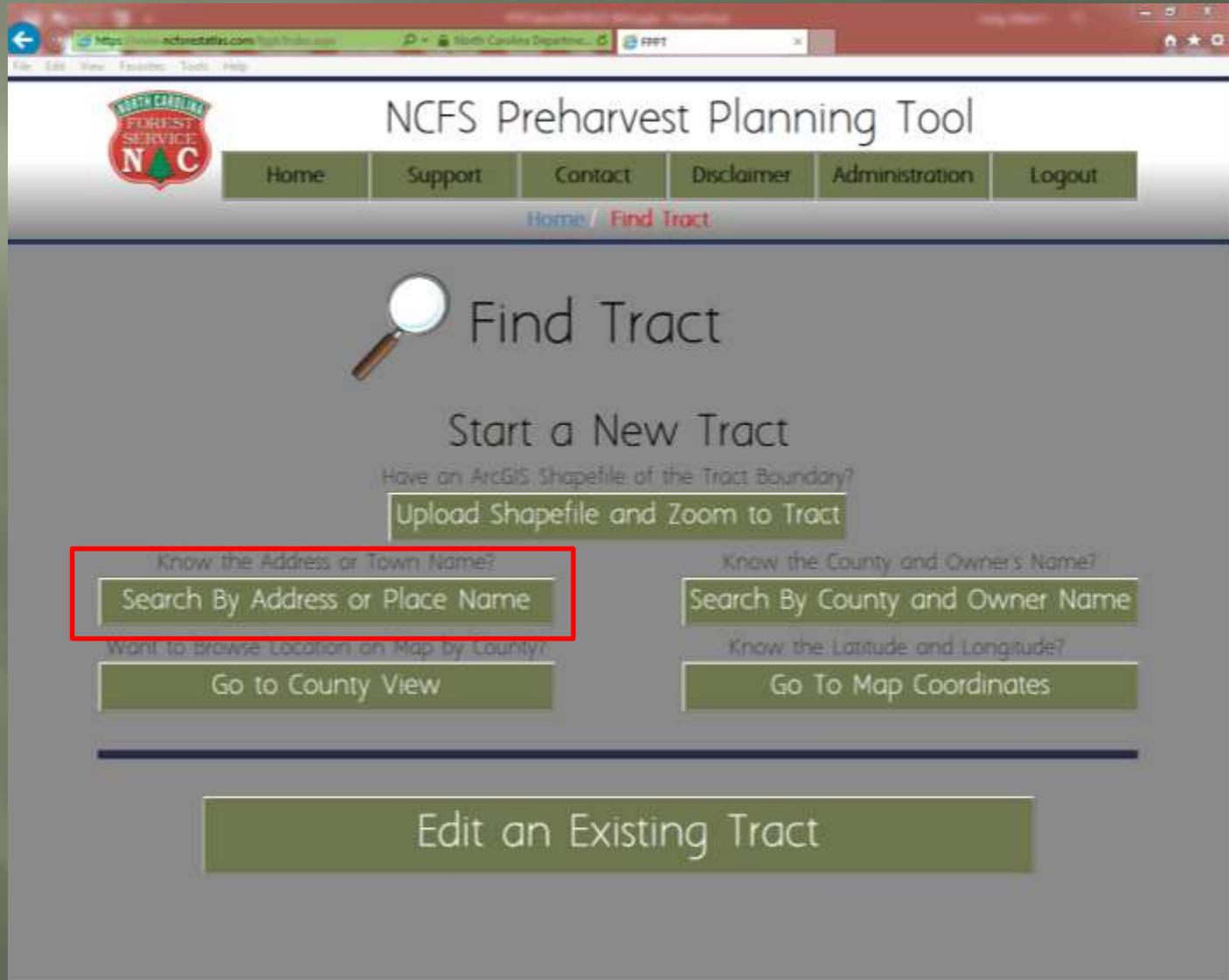
- Home Page
  - ✓ Start New or Edit existing
  - ✓ Note navigation at the top
    - ❖ (Home, Support, Contact, Disclaimer, Admin., Logout)



The screenshot shows a web browser window displaying the NCFS Preharvest Planning Tool. The browser's address bar shows the URL <https://www.ncforestates.com>. The page features the North Carolina Forest Service logo on the left and the title "NCFS Preharvest Planning Tool" on the right. Below the title is a navigation menu with buttons for "Home", "Support", "Contact", "Disclaimer", "Administration", and "Logout". A breadcrumb trail below the menu reads "Home / Find Tract". The main content area has a magnifying glass icon next to the text "Find Tract". Below this are two large green buttons: "Start a New Tract" and "Edit an Existing Tract".



- Start a New Tract
  - ✓ Several options to select from:
    - ❖ Upload shapefile
    - ❖ Search address or place name
    - ❖ County view
    - ❖ County and owner name
    - ❖ Map coordinates
- Edit an Existing Tract



The screenshot shows the NCFS Preharvest Planning Tool website. The browser address bar displays "https://www.ncdarestatist.com/Track/index.aspx". The page header includes the North Carolina Forest Service logo and navigation links: Home, Support, Contact, Disclaimer, Administration, and Logout. Below the header, the main heading is "Find Tract" with a magnifying glass icon. Underneath, it says "Start a New Tract" and "Have an ArcGIS Shapefile of the Tract Boundary?". There are four main options for finding a tract: "Upload Shapefile and Zoom to Tract", "Search By Address or Place Name" (highlighted with a red box), "Search By County and Owner Name", and "Go To Map Coordinates". At the bottom, there is a large green button labeled "Edit an Existing Tract".



- Edit an Existing Tract
  - ✓ You may revise an existing plan if the creator allows access
  - ✓ Search for plans using filter by options:
    - ❖ County
    - ❖ My organization's plans
    - ❖ Only my plans



The screenshot shows the NCFS Preharvest Planning Tool interface. At the top, there is a navigation menu with links for Home, Support, Contact, Disclaimer, Administration, and Logout. Below the menu, the page title is "Your Current Forestry Plans". A search filter is visible, including a "Filter By County" dropdown and radio buttons for "My Organization's Plans" (selected) and "Only My Plans". The main content area displays a grid of plan cards, each with the following information: owner name, county, acreage, creator name, and creation date. Each card has a "More Information" button.

Owner Name	County	Acreage	Created By	Created On
HARRINGTON ROBY S % HARRINGTON BILLY, ALEXANDER County	ALEXANDER County	64.12 Acres	David Jones	7/3/2014
FERGUSON JAMES R, ALEXANDER County	ALEXANDER County	53.03 Acres	Brian McLean	9/14/2015
JONES, VICTOR A. & CAROL E. FAMILY, LLC, ALLEGHANY County	ALLEGHANY County	27.42 Acres	Brian McLean	4/14/2015
BLM test, TEST, Mr. TEST, ANSON County	ANSON County	130.01 Acres	Brian McLean	2/18/2016
BLM TEST Dropbox V2, TRAYWICK RONALD LEE &, ANSON County	ANSON County	25.59 Acres	Brian McLean	12/5/2015
GRUDIC, JAY K & JUI CHIH RACHEL HSU, ASHE County	ASHE County	58.20 Acres	Brian McLean	4/30/2015
STURGILL, DOROTHY W., ASHE County	ASHE County	15.45 Acres		
SMG Test 1, ASHE County	ASHE County	16.18 Acres		
USA, AVERY County	AVERY County	1513.23 Acres		





- Type name of place/address
  - ✓ Clemmons ESF
  - ✓ Displays deeded parcel boundaries
  - ✓ Select by parcel or draw your own polygon
    - ❖ Need to “Add to Selected”
  - ✓ Create Tract from Selected Parcel(s)
  - ✓ Label your project
- You may go back and edit boundaries later





## NCFS Preharvest Planning Tool

- Home
- Support
- Contact
- Disclaimer
- Administration
- Logout

Home / Create Tract / Tract Home / Edit Tract / Edit Management Areas / Customize Map



### Tract Information

- Edit Tract Info
- Edit Tract Boundaries
- Delete Tract

Tract ID:	100660
Tract Name:	
Acres:	330.55
County:	JOHNSTON
Owner:	NC CONSERVATION & DEVELOPMENT
Location:	35.662/-78.491
Remarks:	
User:	coatwi <a href="#">Transfer</a>

### Group Edit

### Management Area Information

- Number of Management Areas: 1
- Edit Management Areas
- Edit Attributes

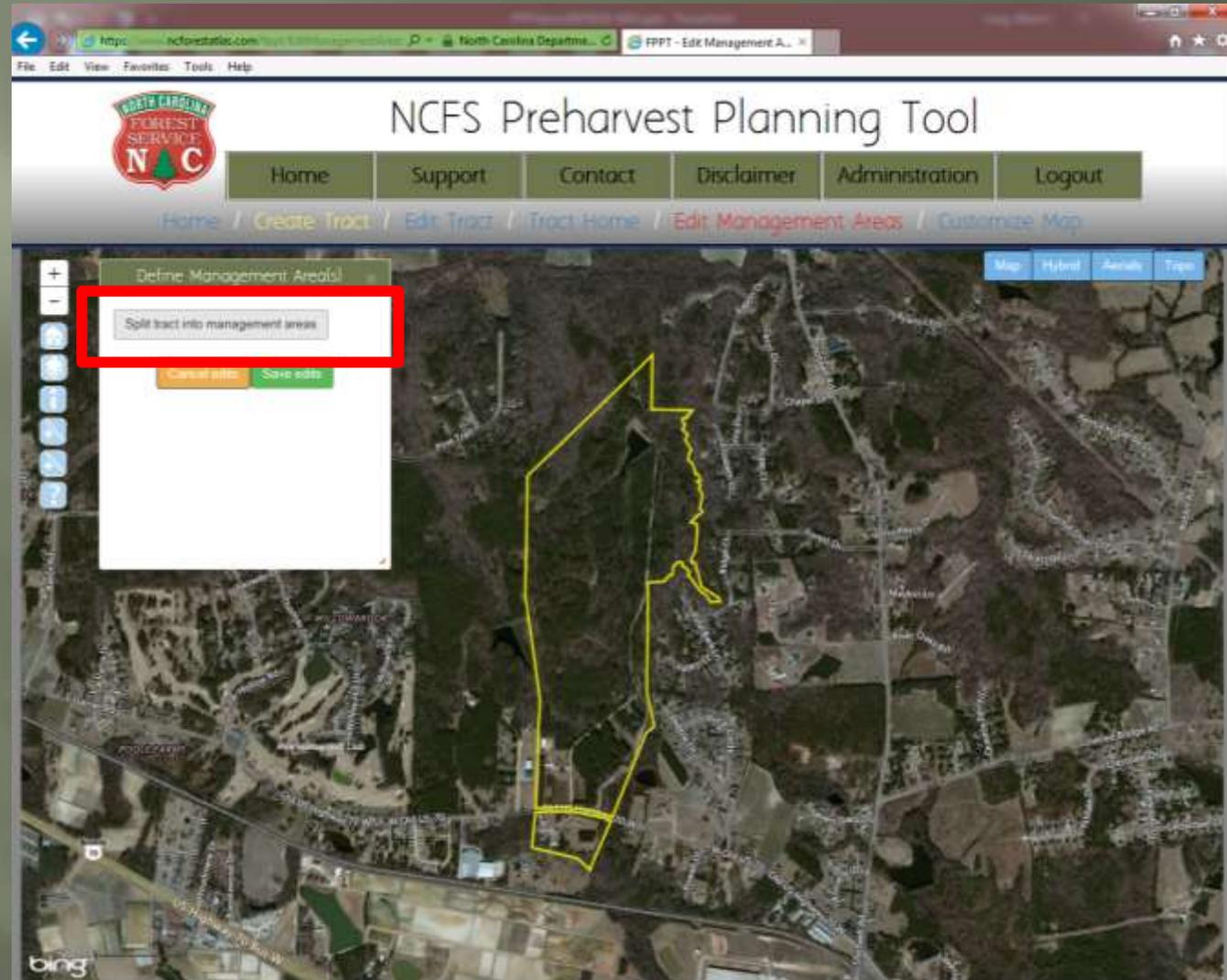
Number	Label	Acres	Remarks
		330.55	

- Create PDF Map
- Download GIS Data
- Update Site and Soils Information



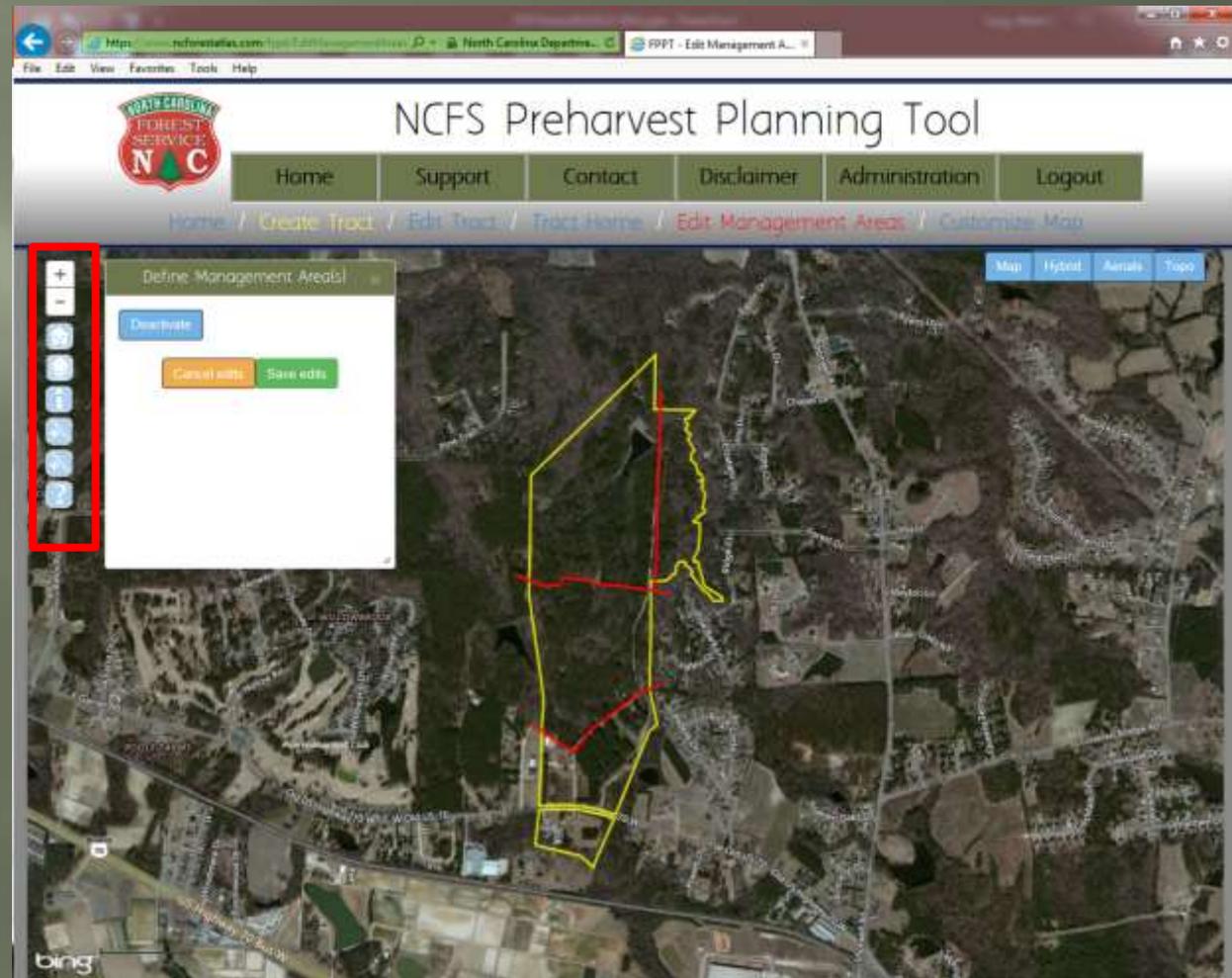


- Define Management Areas
  - ✓ Basic editing
    - ❖ Allows you to split the tract into management areas
  - ✓ Use Tract Geometry
    - ❖ Only one management area
- Split tract into management areas



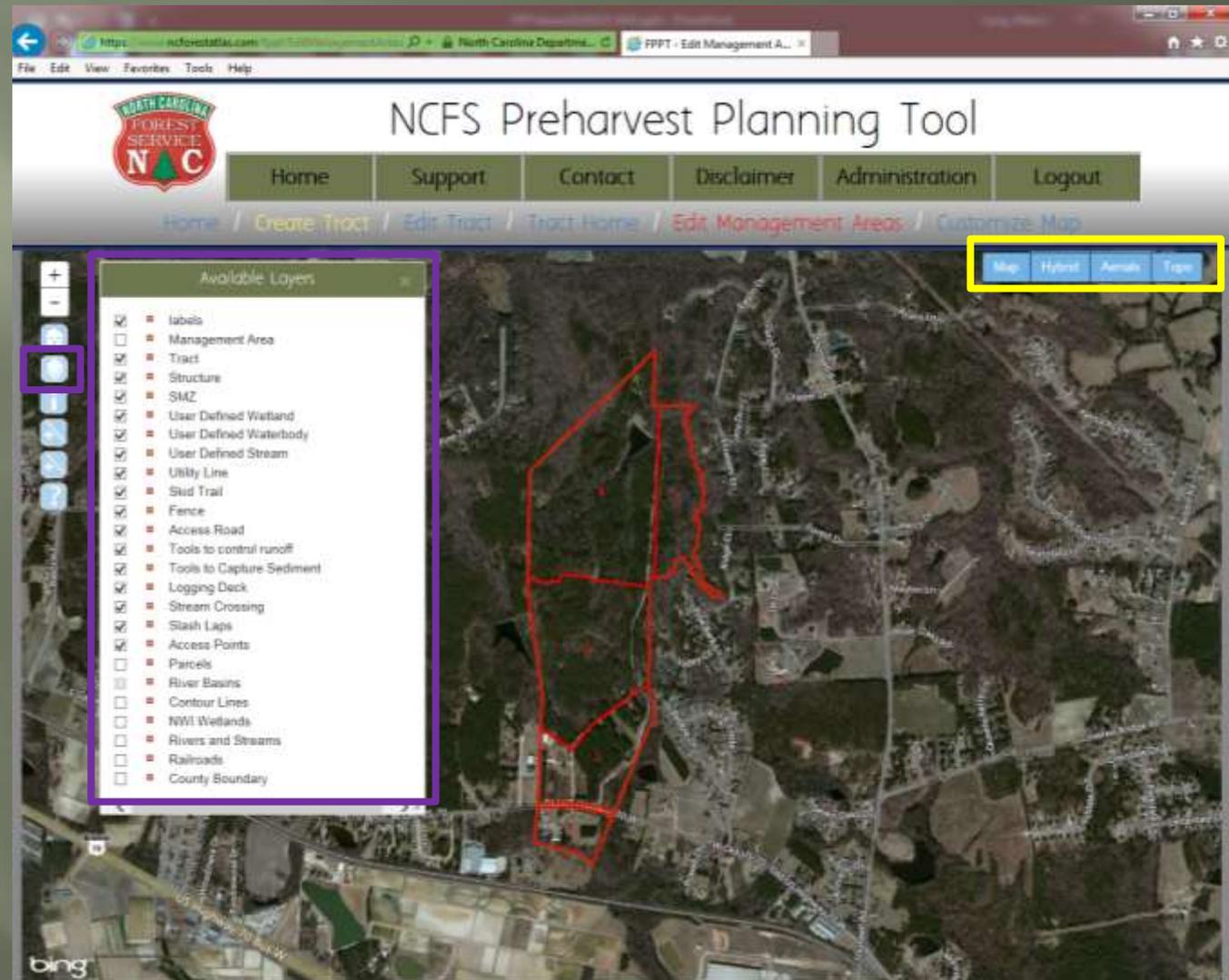


- Split management areas by
  1. Clicking OUTSIDE of the parcel boundary/ existing geometry
  2. Drawing your line through the parcel/ existing geometry
  3. Double clicking OUTSIDE the parcel boundary/ existing geometry
- Note side options
  - Zoom, Home, Layers, Identify, Edit tool window, Add feature,



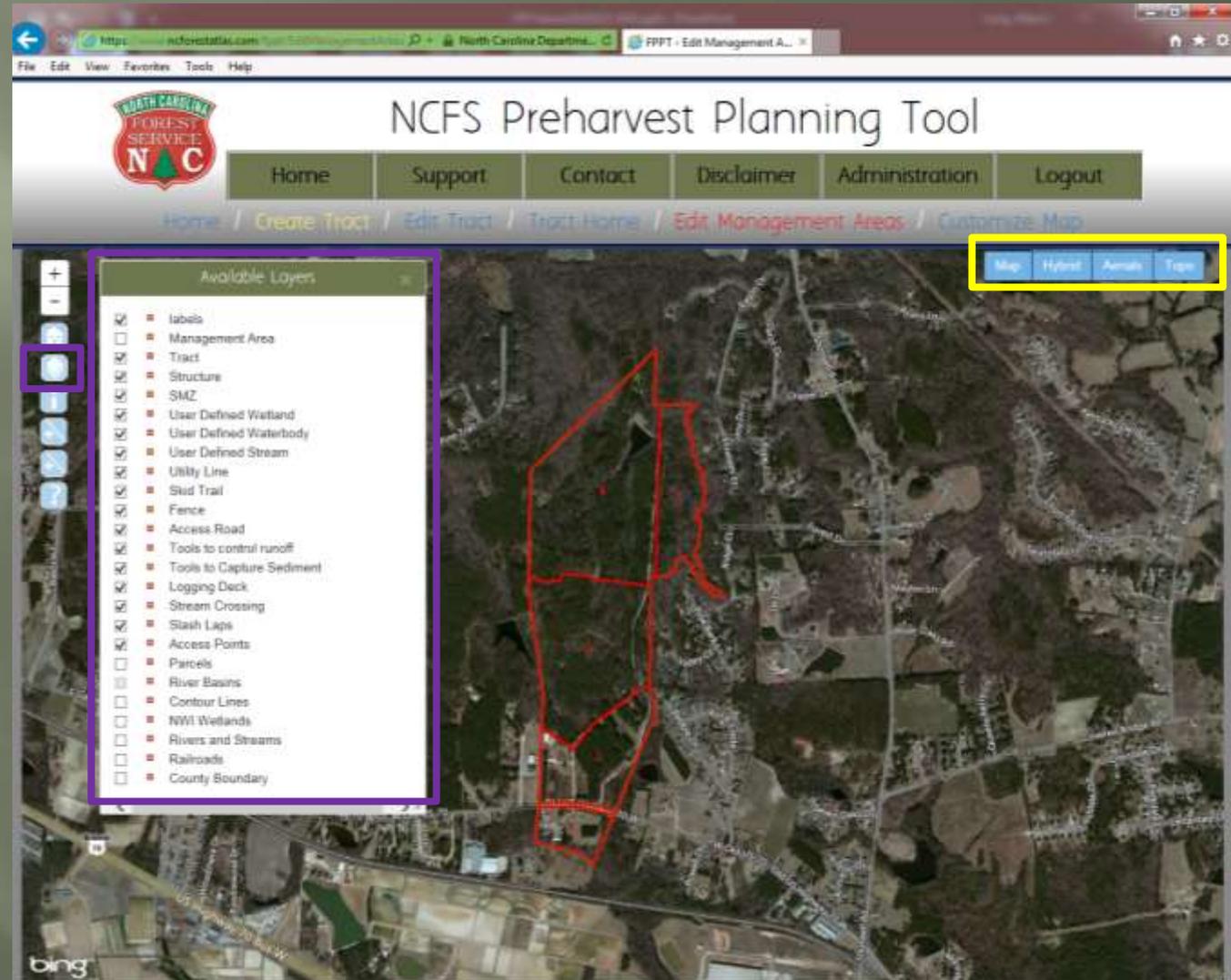


- Management areas are automatically assigned a number
- Can turn “layers” on and off
- Can change map view
  - ✓ Map, Hybrid, Aerials, Topo
- Note cookie crumb progression at the top
- Select “Customize Map”





- Customize Map
  - ✓ Change map view
  - ✓ Map layers
  - ✓ Add permanent features
    - ❖ Roads
    - ❖ BMPs
    - ❖ Stream Crossings
    - ❖ SMZs
    - ❖ Many more!
  - ✓ Add temporary features
    - ❖ Add text, point, line, and polygon markups
    - ❖ Not saved after you close the web browser



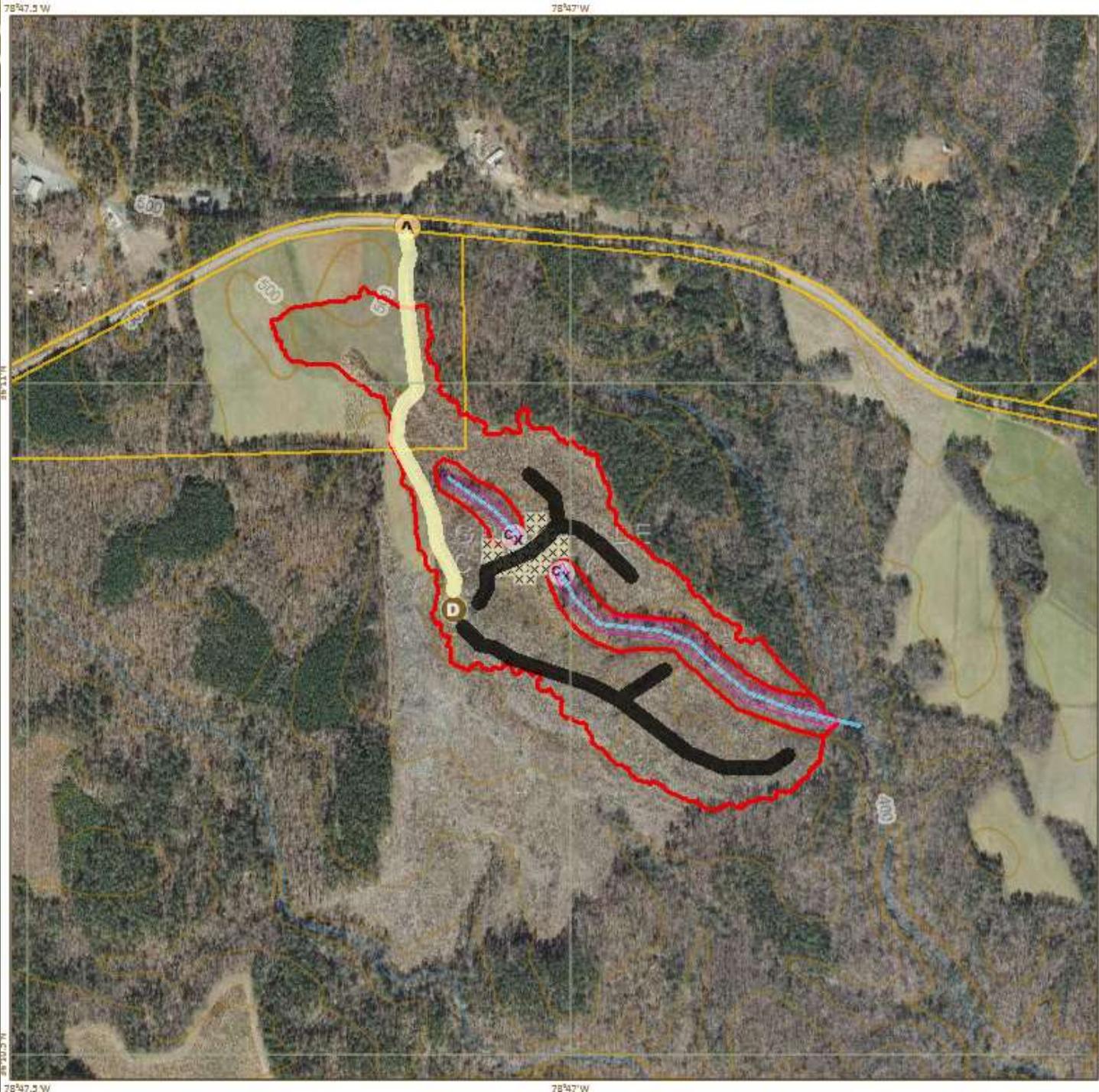


- Add permanent features
  - ✓ There are 31 feature options to choose from
  - ✓ Click on 'Add permanent feature'
  - ✓ Select a feature and click on the map to place it
  - ✓ Permanent marks
- Create PDF: Open Print Dialog

The screenshot displays the 'NCFS Preharvest Planning Tool' web application. The browser address bar shows the URL: <https://www.ncforestatlas.com/fppt/CustomizeMap.aspx?tab=9866&owner>. The page header includes the North Carolina Forest Service logo and navigation links: Home, Support, Contact, Disclaimer, Administration, and Logout. A breadcrumb trail below the header reads: Home / Create Tract / Find Tract / Edit Tract / Tract Home / Edit Management Areas / Customize Map. The main content area features a satellite map with a red boundary. A 'Map' control bar at the top right offers 'Map', 'Hybrid', 'Aerials', and 'Top' views. A central 'Add Features to Database' dialog box is open, listing feature categories: 'Access Point' (with an 'Access Point' icon), 'Slash / Laps' (with a 'Slash / Laps' icon), and 'Stream Crossing' (with a 'Stream Crossing' icon). Below the list are buttons for 'Deactivate Editing' and 'Enable Map Navigation'. A purple box highlights the 'Add permanent feature' icon in the left-hand toolbar.



- Base data includes aeriels, parcels (yellow), contours (light brown), and USGS-mapped streams.
- User created three management areas and added the access point on the main road, access road, deck location, skid trails, stream (that is not shown in the USGS data), SMZs, and location for lap slash on the existing culvert crossing.
- This map can be saved as a PDF file and printed.





## NCFS Preharvest Planning Tool

[Home](#)[Support](#)[Contact](#)[Disclaimer](#)[Administration](#)[Logout](#)[Home](#) / [Create Tract](#) / [Tract Home](#) / [Edit Tract](#) / [Edit Management Areas](#) / [Customize Map](#)

County:	JOHNSTON
Owner:	NC CONSERVATION & DEVELOPMENT
Location:	35.682/-78.491
Remarks:	
User:	coatwi <a href="#">Transfer</a>

 [Group Edit](#)

### Management Area Information

Number of Management Areas: 1

[Edit Management Areas](#)[Edit Attributes](#)

Number	Label	Acres	Remarks
		330.55	

[Create PDF Map](#)[Download GIS Data](#)[Update Site and Soils Information](#)[View Site Summary Report](#)[View Detailed Soil Report](#)[View Soil Summary Report](#)



# Sample Site Report

## Subsections:

- General Tract Information
- Environmental Regulation Considerations
- Overall Tract Characteristics



## Forest Preharvest Planning Site Summary Report

### General Tract Information

Tract ID:	28405	Date Retrieved:	08-25-2014
Tract Name:	Part of Bladen Lakes State Forest	Tract Acres:	5905.88
County:	Bladen	River Basin:	Cape Fear River Basin
NCFS Contact:	Corey Klamut, Water Quality Forester	Physiographic Region:	Inner Coastal Plain
		Geologic Province:	Coastal Plain
NCFS District:	Whiteville	Latitude:	34° 35.34 '
NCFS Contact Phone:	910-642-5093	Longitude:	-78° 28.38 '

### Environmental Regulation Considerations

Forest Practices Guidelines (always apply): <http://fs.forestservice.gov/publications/Forestry%20Leaflets/WQ01.pdf>

NC G.S. 77-13. Obstructing streams is a misdemeanor: [http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter\\_77/GS\\_77-13.pdf](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter_77/GS_77-13.pdf)

NC G.S. 77-14. Obstructions in streams and drainage ditches: [http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter\\_77/GS\\_77-14.pdf](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter_77/GS_77-14.pdf)

NCDWR Riparian Buffer Rules apply?  No  Yes Buffer Rule: N/A

Riparian Buffer Rule Forestry Leaflet: N/A

Riparian Buffer Rule Administrative Code: N/A

### Overall Tract Characteristics

Surface waters present?  Y  N [BMP Manual SMZs and Riparian Buffers](#)

USGS 1:24,000 Streams:  Y  N [BMP Field Guide SMZs and Waterways](#)

NCDWR Classified Streams:  Y  N [BMP Manual Stream Crossings](#)  
[BMP Field Guide Stream Crossings](#)

NCDWR Surface Water Classifications:  
Aquatic Life, Secondary Recreation, Fresh\*\*;  
Water Supply V - Upstream\*\* ; Swamp Waters ;  
Primary Recreation, Fresh Water\*\*

**⚠ Note:** This map and report do not include streams from NRCS Soil Survey maps that may be subject to Buffer Rules.  
\*\* Denotes a primary surface water classification.

Wetlands present?  Y  N [BMP Manual Silvicultural Activities in Forested Wetlands](#)

National Wetlands Inventory  Y  N **⚠ Note:** An absence of wetlands reported in this document does not guarantee wetlands are not present on-site. Please examine the site in person to determine if wetlands are present.

NC Coastal Area Management  Y  N

Slope slopes present (>= 25%)?  Y  N [BMP Manual Runoff Control](#)

Average Slope: 3% [BMP Field Guide Erosion and Runoff Control](#)

Minimum Slope: 0% [BMP Manual Calculating Percent Slope](#)

Maximum Slope: 47%





# Sample Site Report (cont.)

## Subsections:

- Dominant Mapunit Soil Characteristics and Ratings
- Federal / State T&E



## Forest Preharvest Planning Site Summary Report

### Overall Tract Characteristics Continued

#### Dominant Mapunit Soil Characteristics and Ratings

Mapunit Symbol:	LaB	Horizon A: (Surface)	Sand
Mapunit Name:	Lakeland sand, 1 to 7 percent slopes	Horizon B: (Sub-layer)	N/A
Hydric Rating:	Predominantly Nonhydric	Dominate Mapunit Component:	Lakeland

The dominate Map Unit of the tract is **Lakeland sand, 1 to 7 percent slopes** which makes up 23% of the tract, and the dominate soil component of the Map Unit is **Lakeland** which makes up 80% of the Map Unit.

Common Harvest Activity	Rating	BMP Awareness
Construction Limitations for Haul Roads and Log Landings	Moderate	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Keep Grade Under 10%.
Harvest Equipment Operability	Moderately suited	Use Caution. Watch the Weather. Be Ready to Change Logging Methods if Site Conditions Worsen.
Erosion Hazard: Off-Road Off-Trail	Slight	Follow Basic BMPs. Minimize Area of Disturbed Soil.
Erosion Hazard: Road/Trail	Slight	Follow Basic BMPs. Minimize Area of Disturbed Soil. Apply Slash/Laps on Skid Trails.
Soil Rutting Hazard	Moderate	Watch Out! Rutting is Likely. Only Log When the Site is Dry. Apply Extra Slash/Laps to Build Up a Cushion.
Suitability for Log Landings	Moderately suited	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Install BMPs to Divert Runoff and Catch Sediment. Stabilize Bare Soil Promptly.
Suitability for Roads on Natural Surface	Moderately suited	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Install Multiple Back-Up BMPs to Divert Runoff and Catch Sediment. Stabilize Bare Soil Promptly. Stay Away From Streams. Keep Grade Under 10%.

#### Federal or State Endangered (E) or Threatened (T) Species within two miles of the tract

Scientific Name	Common Name	Taxonomic Group	Federal Status	NC Status
Anodonta couperiana	Barrel Floater	Freshwater Bivalve		E
Micrurus fulvius	Harlequin Coralsnake	Reptile		E
Sagittaria isoetiformis	Quillwort Arrowhead	Vascular Plant		T
Aristida condensata	Big Three-awn Grass	Vascular Plant		T
Myriophyllum tenellum	Leafless Water-milfoil	Vascular Plant		E
Crotalus adamanteus	Eastern Diamond-backed Rattlesnake	Reptile	FSC	E
Elipito roanokensis	Roanoke Slabshell	Freshwater Bivalve		T
Picoides borealis	Red-cockaded Woodpecker	Bird	E	E
Solidago tortifolia	Twisted-leaf Goldenrod	Vascular Plant		E
Asplenium heteroresiliens	Carolina Spleenwort	Vascular Plant	FSC	E
Tridens chapmanii	Chapman's Redtop	Vascular Plant		T

\* For additional information please visit: <http://portal.ncdenr.org/web/nhp/>



# Sample Site Report (cont.)

## Subsections:

- Management Area 1, 2... Characteristics
- BMP Awareness

**Management Area 1 Characteristics**

Management Area Acres:	2995.56
Surface waters present?	
USGS 1:24,000 Streams:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
NCDWR Classified Streams:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Wetlands present?	
National Wetlands Inventory:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
NC Coastal Area Management:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Steep slopes present (>= 25%)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Average Slope:	3%
Minimum Slope:	0%
Maximum Slope:	32%



**Dominant Mapunit Soil Characteristics / Ratings:**

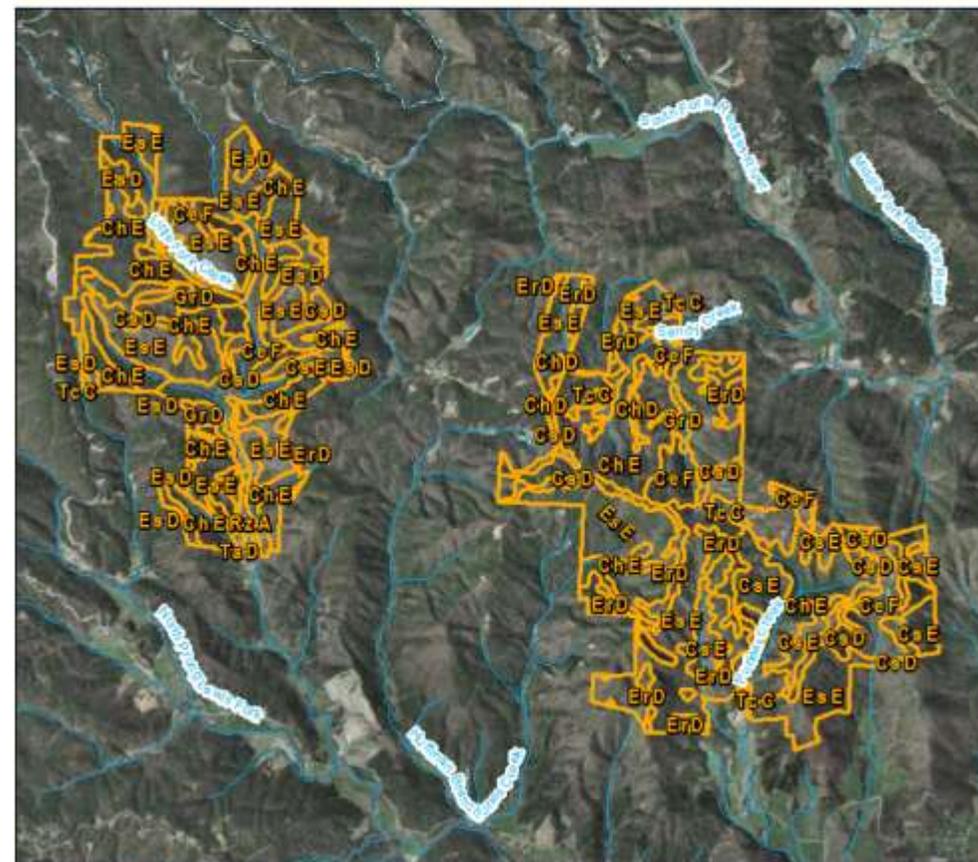
Mapunit Symbol:	LaB	Horizon A: (Surface)	Sand
Mapunit Name:	Lakeland sand, 1 to 7 percent slopes	Horizon B: (Sub-layer)	N/A
Hydric Rating:	Predominantly Nonhydric	Dominate Mapunit Component:	Lakeland

The dominate Map Unit of the management area is **Lakeland sand, 1 to 7 percent slopes** which makes up **32%** of the management area, and the dominate soil component of the Map Unit is **Lakeland** which makes up **80%** of the Map Unit.

Common Harvest Activity	Rating	BMP Awareness
Construction Limitations for Haul Roads and Log Landings	Moderate	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Keep Grade Under 10%.
Harvest Equipment Operability	Moderately suited	Use Caution. Watch the Weather. Be Ready to Change Logging Methods if Site Conditions Worsen.
Erosion Hazard: Off-Road Off-Trail	Slight	Follow Basic BMPs. Minimize Area of Disturbed Soil.
Erosion Hazard: Road/Trail	Slight	Follow Basic BMPs. Minimize Area of Disturbed Soil. Apply Slash/Laps on Skid Trails.
Soil Rutting Hazard	Moderate	Watch Out! Rutting is Likely. Only Log When the Site is Dry. Apply Extra Slash/Laps to Build Up a Cushion.
Suitability for Log Landings	Moderately suited	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Install BMPs to Divert Runoff and Catch Sediment. Stabilize Bare Soil Promptly.
Suitability for Roads on Natural Surface	Moderately suited	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Install Multiple Back-Up BMPs to Divert Runoff and Catch Sediment. Stabilize Bare Soil Promptly. Stay Away From Streams. Keep Grade Under 10%.



# Sample Soils Report



USG S 1:24k Streams: Perennial (blue line), Intermittent (light blue line), Ephemeral (dashed blue line). Scale: 0, 5,000, 10,000, 15,000 Feet.

Mu Symbol	Mu Name	Mu Symbol	Mu Name
CeF	Chestnut-Ashe complex, 25 to 90 percent slopes, very stony	ChD	Chestnut-Edneyville complex, 8 to 25 percent slopes, stony
ChE	Chestnut-Edneyville complex, 25 to 60 percent slopes, stony	CsD	Cowee-Saluda complex, 8 to 25 percent slopes, stony
CsE	Cowee-Saluda complex, 25 to 60 percent slopes, stony	ErD	Evard gravelly sandy loam, 15 to 25 percent slopes
EsD	Evard-Cowee complex, 8 to 25 percent slopes, stony	EsE	Evard-Cowee complex, 25 to 60 percent slopes, stony
RzA	Rosman-Reddies complex, 0 to 3 percent slopes, occasionally flooded	TaD	Tate fine sandy loam, 8 to 25 percent slopes





# Forest Preharvest Planning Soils Summary Report

## Mapunit Soil Characteristics and Ratings

Tract ID:	27206	Tract Name:	Rendezvous Mountain Educational State Forest
Mapunit Symbol:	CeF	Drainage Class:	Well drained
Mapunit Name:	Chestnut-Ashe complex, 25 to 90 percent slopes, very stony	Flooding Frequency:	None
		Horizon A (Surface):	Gravelly sandy loam
Mapunit Major Component:	Chestnut	Horizon B (Sub-layer):	Sandy loam
Taxonomic Class:	Coarse-loamy, mixed, active, mesic Typic Dystrudepts		
Frost Free Days:	135	Hydric Rating:	Nonhydric

Map Unit **Chestnut-Ashe complex, 25 to 90 percent slopes, very stony** represents 10.2% of the tract, and the dominate soil component of the Map Unit is **Chestnut** which makes up 45% of the Map Unit.

Common Harvest Activity	Rating	BMP Awareness
Construction Limitations for Haul Roads and Log Landings	Severe	Watch Out! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed.
Harvest Equipment Operability	Poorly suited	Watch Out! Have a Back-Up Plan for When to Stop Logging. Only Use Logging Equipment and Methods Suited for the Site Conditions: Low-Ground-Pressure, High Lead, Shovel Logging are examples.
Erosion Hazard: Off-Road Off-Trail	Very severe	Warning! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed.
Erosion Hazard: Road/Trail	Severe	Watch Out! Install Multiple Back-Up BMPs. Establish Groundcover Immediately. Frequently Check Site to Assure No Problems.
Soil Rutting Hazard	Moderate	Watch Out! Rutting is Likely. Only Log When the Site is Dry. Apply Extra Slash/Laps to Build Up a Cushion.
Suitability for Log Landings	Poorly suited	Watch Out! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed.
Suitability for Roads on Natural Surface	Poorly suited	Watch Out! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed. Consider Skidding Logs Longer Distances. Instead of Building a Road.



# Forest Preharvest Planning Soils Summary Report

## Mapunit Soil Characteristics and Ratings

Tract ID:	27206	Tract Name:	Rendezvous Mountain Educational State Forest
Mapunit Symbol:	ChD	Drainage Class:	Well drained
Mapunit Name:	Chestnut-Edneyville complex, 8 to 25 percent slopes, stony	Flooding Frequency:	None
		Horizon A (Surface):	Gravelly sandy loam
Mapunit Major Component:	Chestnut	Horizon B (Sub-layer):	Sandy loam
Taxonomic Class:	Coarse-loamy, mixed, active, mesic Typic Dystrudepts		
Frost Free Days:	135	Hydric Rating:	Nonhydric

Map Unit **Chestnut-Edneyville complex, 8 to 25 percent slopes, stony** represents 1.1% of the tract, and the dominate soil component of the Map Unit is **Chestnut** which makes up 55% of the Map Unit.

Common Harvest Activity	Rating	BMP Awareness
Construction Limitations for Haul Roads and Log Landings	Moderate	Extra BMP Installation, Monitoring, and Maintenance Are Needed. Keep Grade Under 10%.
Harvest Equipment Operability	Well suited	Follow Basic BMPs. Minimize Soil Disturbance.
Erosion Hazard: Off-Road Off-Trail	Moderate	Extra BMP Installation, Monitoring, and Maintenance Are Needed.
Erosion Hazard: Road/Trail	Severe	Watch Out! Install Multiple Back-Up BMPs. Establish Groundcover Immediately. Frequently Check Site to Assure No Problems.
Soil Rutting Hazard	Moderate	Watch Out! Rutting is Likely. Only Log When the Site is Dry. Apply Extra Slash/Laps to Build Up a Cushion.
Suitability for Log Landings	Poorly suited	Watch Out! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed.
Suitability for Roads on Natural Surface	Poorly suited	Watch Out! Reconsider Your Options. High Risk and High Costs Are Likely. Engineering Expertise May Be Needed. Consider Skidding Logs Longer Distances. Instead of Building a Road.





## Summary

- ▣ One-stop shopping for maps/data commonly used for pre-harvest planning
  - Aerials, topos, soils, parcels, streams, wetlands, roads
- ▣ The basic reports will be a free service to anyone with web access
- ▣ Allow easy customization of maps– location of access roads, skid trails, stream crossings, BMPs
- ▣ While the web tool is free, it also provides a starting point for NCFS staff to develop more robust pre-harvest plans

# FPPT Project – Whom To Contact and Provide Project Comments and/or Feedback

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