



**North Carolina Department of Agriculture
and Consumer Services**
N.C. Forest Service



Steven W. Troxler
Commissioner

Greg Hicks
Assistant Commissioner

Reforestation Plan
D11 – Granville County
Preddy 039-684 (36° 09.58, -78° 32.56')
Total Plan Acres – 79 acres

October 16, 2024
911 Hillsboro Street
Oxford NC 27565

Jeffery Preddy
3049 Preddy Road
Franklinton NC 27525-8181

Dear Mr. Preddy:

Yesterday I examined a tract of timber you recently harvested in Granville County off Grove Hill Road. The following plan details my findings and recommendations.

Actions to take now:

- Herbicide treat the tract (should be completed today).
- Wait for cost share approval.
- Plant Loblolly Pine January 1 through April 15th 2025.

If I can be of further assistance or you need to contact me my office number is (919) 693-3154 and my cell phone number is (919) 482-2301 or I can be reached by email at rob.montague@ncagr.gov.

Sincerely,

Rob Montague

Rob Montague
NC Registered Forester #1386
Granville/Vance County Ranger

Cc: District 11 Files
Granville County Files

Enclosures

- | | |
|--|--|
| ➤ NC Forest Practice Guidelines Related to Water Quality | ➤ FM Map |
| ➤ Tar Pamlico River Basin Rules WQ#10 | ➤ Managing Loblolly Pines |
| ➤ Reforestation as an Investment | ➤ Financial Incentives for Forest Management |
| ➤ Hand Planting Contractors | |

October 16, 2024

Preddy

You desired to reforest the area and manage the forest resources there to keep them healthy and grow the resources to a commercially valuable stand of pine for income. The detailed map corresponds with the area examined. Area lines and acres are estimated at this time and should not be used as or for a survey, contractor payments, legal contracts, ect. Property boundary lines are what is shown in the Granville County Tax Office Geographical Information System program and are not a survey. Water resources drawn in blue are approximations from aerial photography, topographic maps, and soils data. The streams drawn in blue are subject to the Tar Pamlico River Basin Rules and were protected during the last harvest. More information on these rules is included.

General Property Description

There are several streams on the property which drain to Ford Creek as part of the Tar Pamlico River Basin system. Slopes across the tract vary from mild to flat. The tract has an elevation of 380 to 420 feet above sea level.

Soils

Major soils present are of the Cecil and Pacolet series and are productive for growing timber with site index (an indicator of total height growth in feet for loblolly pine in 50 years) value of 77 to 85. This number is used to show timber productivity based on soil type and correlate to a loblolly pine being 77 to 85 feet tall after 50 years growing on these soils.

Area 1: Recently Harvested Loblolly Pine 79 +/- Acres

Area 1 was harvested by clearcutting in the winter of 2023/24. The previous stand contained loblolly pine and scattered mixed hardwoods. It was clear cut. The tract has resprouted in various hardwood species and natural loblolly pine regeneration as well.

Reforestation Recommendations

Spraying

To regenerate the stand with loblolly pine I recommend the tract be herbicide treated in the early fall of 2024 anytime from now through the first frost of 2024. You have contracted to have the tract backpack sprayed with the following prescription by Rock Springs Forestry.

- 192 ounces of Mad Dog 5.4 (generic for Accord XRTII)
- 20 ounces of Imazapyr 4SL (generic for Arsenal AC)
- 9.6 ounces surfactant
- All in 15 to 30 gallons of water

*Generic herbicides to those above are also acceptable.

Tree Planting

The area should be planted during the following planting season, which will be the winter months of 2025 (January 1st – April 15th). It is my recommendation that the area be hand planted in 3rd cycle genetically improved Piedmont bare root loblolly pine seedlings at a spacing of 8 x 10 feet. This spacing will produce around 544 trees per acre. I also recommend that the seedlings be treated for pales weevil and white tail deer. Pales weevil is an insect that often attacks newly established pine stands. White tail deer are very curious and persistent animals. Many times they will bite the terminal bud from the seedling or pull it from the ground when freshly planted. Treating the seedling with a deterrent makes it taste bitter and the deer should not bother them for the first few weeks.

Contractors

Enclosed is a list of tree planting contractors to perform this work for you should you not have already chosen one. It is up to you to choose the contractor, supervise their work, and pay them the total price once the work is complete. The NC Forest Service is available to make a quality control inspection to see if the work meets the standards set forth in this plan but we do not have any supervision authority over the contractor. It is recommended you execute a written contract with the chosen contractor for this project requiring the specifications set forth in this plan be met. Please notify us when the work is being performed.

Seedlings

A wide range of genetically improved loblolly pine seedlings are available in North Carolina. The North Carolina Forest Service has been breeding, testing, and selecting the best 'families' of loblolly pine since 1964. Our nursery provides these seedlings for purchase by you or your tree planting contractor. There are also quality seedlings available from other nurseries in North Carolina.

Seedlings must be of a suitable seed source for planting in Granville County based on suitable minimum temperatures. Your planting contractor will need to verify this. Additional information on minimum winter temperatures is available from the nursery growing the seedlings. If seedlings do not meet this requirement and cost share is used, no cost share assistance will be available for replanting if poor survival occurs.

Reforestation Cost and Financial Assistance Hand Plant Area

The cost of hand planting a loblolly pine stand is \$105.00 to \$115.00 per acre. This cost includes both the seedlings and labor for planting them. The cost herbicide application is approximately \$150.00 per acre including the herbicide and application. It is possible there is cost share assistance under the Forest Development Program (FDP) for the **tree planting cost only**. There are not any cost share funds available for herbicide treatment. If your tract is chosen in the lottery draw, FDP will reimburse approved landowners approximately 40% of the cost for establishment of this stand provided the cost of reforestation does not exceed the prevailing rate of \$110.00 per acre. Should the actual cost for the planting of this stand exceed the amount of \$110.00 per acre, your overall cost-share rate will be less than 40%. Please note these funds are not guaranteed and are subject to the lottery draw, but the recommendations are sound for good forest management and I recommend you follow through with them even if your tract is not chosen for cost share funds. **Your application has been sent in for lottery consideration. Please note that only practices that have had prior approval will be cost-shared. DO NOT** begin any practices until you have received written notification from Assistant Commissioner Greg Hicks.

In order to receive cost-share funds, a bill for the practice must be submitted to the Granville/Vance County Forest Service office. After this has been done, it usually requires between 4 to 6 weeks to receive your payment.

10- Year Maintenance:

By signing the cost share application, you are agreeing to retain the reforested area as forestland or a 10 year period and complying with the provisions set forth in this Forest Management Plan. Monies that have been reimbursed for stand establishment under this program will have to be paid back in part or full if any of the below activities take place.

- Destroy the practices installed under this program.
- Fail to complete and maintain the practices as stated in the Forest Management Plan.
- Voluntarily relinquish control of the title of the land on which any practices have been established and the new owner or operator of the land does not agree in writing to properly maintain the practice or practices for the remainder of the maintenance period.

Breakdown of Reforestation Costs

Rough estimates of reforestation costs excluding your cost of burning are as follows:

Hand Plant Loblolly Pine	\$110.00 per acre
Herbicide Application	\$150.00 per acre
Less Cost Share Assistance (if approved)	\$ 44.00 per acre
Estimated Out of Pocket Cost	\$216.00 per acre

Acreage Determination

The N.C. Forest Service is responsible for the final acreage determination of these reforestation practices which is 79 acres. That is the acreage which cost share payments, if approved, are based.

Quality Control and Seedling Survival

We will conduct a quality control check of your tree planting to ensure it meets the specifications set forth in this plan. A survival check will be conducted the following fall to check for adequate survival of planted seedlings. You will be notified if an unsatisfactory number of seedlings are found. Neither the Forest Service nor private tree-planting contractors can guarantee seedling's survival against drought, insects, or other natural mortality. If an area needs to be replanted, the cost is usually not as high as the original planting. This lower cost is due to the entire area not needing to be replanted under usual circumstances. Cost sharing may also be available for replanting if it is needed.

Environmental Requirements for Forestry

Tar Pamlico River Basin

Several environmental regulations exist that will need to be addressed during any planned forest management activity. Strict adherence to Forestry Best Management Practices (BMP's) is needed to meet regulations and to comply with cost share assistance programs that might be utilized. Any agreement between you and contractors, consultants, and/or timber buyers should include a written statement requiring them to follow these guidelines.

To prevent sedimentation from entering waterways, adequate vegetative buffers must be maintained adjacent to all streams and waterways. We recommend a minimum 50-foot wide Streamside Management Zone (SMZ) adjacent to waterways. Wider buffers will be needed as slope increases to adequately prevent erosion from reaching and causing sedimentation of streams, creeks, or ponds. Areas such as access roads, skid trails, stream crossing, and logging decks may need special attention if erosion is possible. Stabilization measures can include construction of water diversions, sowing of grass, and mulching of the area (mulching includes covering with straw, hay, or logging debris.) Stream crossings utilized during harvesting must be promptly removed and the crossing stabilized unless an adequate permanent crossing is present. Any debris placed in or across streams must be removed. The Forest Best Practices Manual is available from us free of charge. This manual contains details on BMP's and other forestry practices related to water quality.

Buffers are currently in place on Area 1 and are compliant with the Forest Practice Guidelines and the Tar Pamlico River Basin Rules. These buffers should stay intact and meet the requirements for buffering water bodies for herbicide spraying.

Future Monitoring

A landowner should continue to monitor their forest. You should be looking for competition from undesirable species, attacks from insects and disease, trespassing, and also natural calamities such as ice storms, hurricanes, wildfires, etc. The Internet itself has a wealth of information on forestry and wildlife topics. If interested, a good place to start is our website (www.ncforestservice.gov). From there, you can view information we have, or go to the links section for additional informational sources.

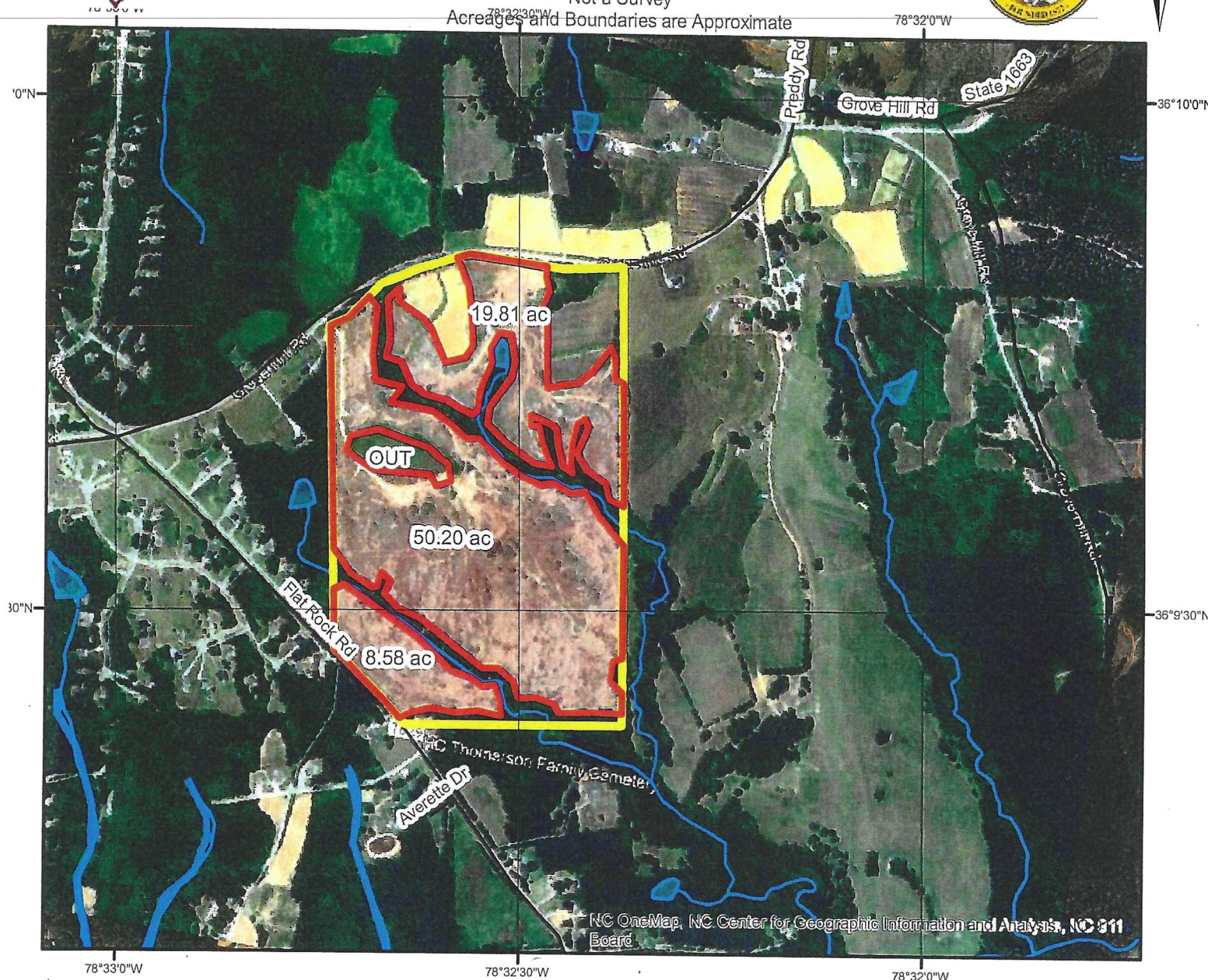


North Carolina Forest Service Measurement Map



Not a Survey

Acreages and Boundaries are Approximate



0 500 1,000 2,000 3,000 4,000 Feet

Legend

- Stands
- Landowner
- USGS Streams

Preddy_Jeff_7_49.tif

RGB

- Red: Band_1
- Green: Band_2
- Blue: Band_3

Landowner: Jeff Preddy
County: Granville
Lat/Long: 36° 09.58' / -78° 32.56'
Drawn By: Rob Montague
Date Drawn: 10/15/2024
Cost Share Acres: 79
Practice: Herbicide Spray and Plant Loblolly
Meas. Method: GIS-Georeference
RMS: 7.49

