



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Hinds County BOE

Prepared By:
John Randall Giachelli
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-22

Plan Type:
Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

Property Name: 16-7N-3W

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**MISSISSIPPI FORESTRY COMMISSION
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LANDOWNER INFORMATION

Organization: Hinds County Schools
Name: Hinds County BOE
Mailing Address: 13192 Hwy 18
City, State, Zip: Raymond, MS 39154
Country: United States of America
Contact Numbers: Home Number: 601-857-5222
Office Number:
Fax Number:
E-mail Address: shandley@hinds.k12.ms.us
Social Security Number (optional):

FORESTER INFORMATION

Name: John Randall Giachelli , Service Forester
Forester Number: 02503
Organization: MFC
Street Address: 3139 Hwy 468
City, State, Zip: Pearl, MS 39208
Contact Numbers: Office Number: 601-420-6018
Fax Number:
E-mail Address: rgiachelli@mfc.state.ms.us

PROPERTY LOCATION

County: Hinds Total Acres: 644 Latitude: -90.51 Longitude: 32.45
Section: 16 Township: 7N Range: 3W

DISCLAIMER

This information was derived from a small sampling of the forest resources. It reflects a statistical estimation that is only intended to be accurate enough for the purposes of making decisions for the short-term management of these resources. These estimations are temporally static. Events and circumstances may occur within the survey area that will physically alter the forest resources and therefore will not be reflected in this plan.

INTRODUCTION

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

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OBJECTIVES

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

The goal is to provide a diversity of habitats suitable for a variety of game and non-game wildlife species. Habitat management will focus on developing a variety of food, cover, water, and space. This will be accomplished by establishing and maintaining access roads and firelanes, providing openings within the forest, and the management of trees located within the Streamside Management Zone.

PROPERTY DESCRIPTION

General Property Information

This section is located in Northwest Hinds County. Access to this section can be reached off John Warren Road. This section consists of 84 acres of Loblolly Pine plantations, 449 acres of a natural pine/hardwood component, 75 acres of pine reproduction and 34 acres of non-forest. The mature pine/hardwood consists of Red Oak, Hickory, Loblolly Pine, Ash, Poplar, Sweetgum and miscellaneous species. Parts of the mature hardwood/pine stands will be harvested during this plan. There are 9 inoperable acres on this section.

Water Resources

There was one perennial water resources identified during a reconnaissance of the property. It is a no name stream that runs accross the northwest corner of the property. All streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

Timber Production

The goal is to maximize the production of high quality timber. This will be accomplished through the application of timely thinning and other silvicultural practices designed to enhance timber quality and growth. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

Threatened and Endangered Species

No threatened and endangered species were identified during the reconnaissance and evaluation of your property.

Interaction with Surrounding Property

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

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Soils General

Soils were evaluated on the property to determine the suitability of the site for the proposed activities. Forest practices were planned so as to minimize erosion or other adverse effects on the soil. The following soils are identified for this property: Riedtown and Memphis

Archaeological and Cultural Resources

A church is located on this property and will be considered during any forest management activity. The church is West of John-Warren road on the southern portion of the property. There is a hunting lease on the property but no hunting camp. Wildlife will play a major roll in the future silvicultural activities.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A healthy, vigorously growing stand is the best defense to an attack from a variety of forest insects, plants and pathogens.

Insects and Diseases

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

- Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

Fire Protection

Your forest should be protected from wildfire at all times. The best way to protect your investment is by establishing and maintaining firebreaks around the property. Guidelines for establishment and maintenance of firebreaks may be found in Mississippi Forestry Commission publication #107, *Mississippi's Best Management Practices*.

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Grazing

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to the tree planting area.

Boundary Lines

It is the responsibility of the landowner to ensure that all property lines and boundaries designating areas to receive forestry work are clearly identified and visible to all contractors.

Note: Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are installed. Special efforts will be made to minimize adverse effects when carrying out any of the practices. Examples include: site preparation, planting, prescribed fires, firebreak installation and maintenance, road installation and maintenance, pesticide applications and timber harvesting.

Water Quality Protection

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This can best be achieved by implementation of Best Management Practices in all aspects of the management of the property.

Aesthetics

The goal is to assure that the property is managed in such a way that is aesthetically pleasing to the landowner as well as the community. Activities could include, maintaining buffer strips along the road and adjacent to the home site, planting wildflowers along the road, and trees with attractive fall and spring color along the drive and near the home site.

Ecological Restoration

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

Wildlife Mgt. Target Species

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management will focus on providing food, cover, water, and space to facilitate the target species.

Environmental Education

Environmental educational goals are to provide educational opportunities for children and adults through the development of items such as nature trails with tree identification markers, wildlife viewing areas, picnic areas, parking, public restroom facilities.

Wildlife Management General

The goal is to provide a diversity of habitats suited for a variety of game and non-game wildlife species. Habitat management will focus on providing a variety of food, cover, water, and space. This will be accomplished, in part, by establishing and maintaining

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access roads and firelanes, providing openings within the forest, and leaving mast producing and den trees.

Timber Management

Timber management goals for this property are to manage timber resources in such a manner as to maximize timber production throughout the life of the stand.

Recreation

According to landowner objectives the recreational use of the property could prove to be an avenue for personal enjoyment or for generating income. An evaluation of your property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

SOIL TYPES

Riedtown

Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Memphis

Slopes are 2 to 40 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 105.

STRATA

Strata 1

Strata Description

Strata 1 : Stands 11, 15 and 26

Acres : 42

This is a well stocked Loblolly Pine plantation that is 24 years old. The stands were second thinned in 2009. The strata will be final harvested during the life of this plan.

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Strata Recommendations

These stands will be combined with stand 8 of strata 5 and final harvested in 2018 to allow for a larger and more managable stand. These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest and Regeneration

This strata will be final harvested in 2018.

In 2019 the strata will be aerial sprayed with herbicide and burned in order to prepare a good site for planting that is free of debris and competing vegetation.

In 2020 the stands will be planted with advanced generation Loblolly Pine seedlings at 622 trees per acre on a 7x10 foot spacing.

Strata 2

Strata Description

Strata 2 : Stands 3, 9 and 13

Acres : 38

This strata consists of a well stocked hardwood stand that is 61 years old. The hardwood making up this strata is mainly Red Oak, White Oak, Sweetgum, Poplar, Ash and miscellaneous species.

Strata Recommendations

Stand 3 is 18 acres and will be final harvested along with the young 75 acre Loblolly Pine plantation that borders it to the North. This activity will not be done during the life of this plan.

Strata 3

Strata Description

Strata 3 : Stands 1, 5, 12, 14, 16-20, 25 and 27

Acres : 411

This strata consists of well stocked Loblolly Pine, Red Oak, White Oak, Sweetgum, Poplar, Ash and miscellaneous species.

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Strata Recommendations

This strata will need to be final harvested a little at a time during the life of this plan. Part will be regenerated in advanced generation Loblolly Pine seedlings while other areas will receive a seed tree cut to regenerate natural Red Oak, White Oak and Poplar.

Activity Recommendations

Harvest and Regeneration

In 2012 stands 14 and 16 will be final harvested. All merchantable timber will be removed equalling a 63 acre final harvest. The stands will be aerial sprayed with herbicide and burned the following year to produce a clean planting area for advanced generation Loblolly Pine seedlings. The seedlings will be planted at 622 trees per acre on a 7x10 foot spacing.

In 2012 stand 12 will receive a seed tree cut to promote a quality Red Oak, White Oak, Ash and Poplar stand. The leave trees will regenerate naturally and produce a well stocked hardwood stand that holds our target species. This harvest equals 30 acres.

In 2015 stand 20 will be final harvested and artificially regenerated. This will be a 72 acre harvest that will be sprayed with herbicide and burned the following year. This will provide a clean planting area for advanced generation Loblolly Pine seedlings. The bareroot seedlings will be planted at 622 trees per acre on a 7x10 foot spacing.

In 2020 stand 27 will be final harvested and artificially regenerated. This will be a 55 acre harvest that will be sprayed with herbicide and burned the following year. This will provide a clean planting area for advanced generation Loblolly Pine seedlings. The bareroot seedlings will be planted at 622 trees per acre on a 7x10 foot spacing.

Strata 4

Strata Description

Strata 4 : Stand 2

Acres : 75

This is a well stocked advanced generation Loblolly Pine plantation. This stand is 4 years old and will be monitored to see if a spraying will be needed in the future to control competing vegetation.

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

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No harvests will be needed during the life of this plan. Roads and firelanes will be maintained as needed.

Strata 5

Strata Description

Strata 5 : Stand 8

Acres : 44

This is a well stocked Loblolly Pine and hardwood mixed stand. The stand is 61 years old and will be harvested during this plan.

Strata Recommendations

The stand will be final harvested and artificially regenerated to produce a high quality pine plantation. These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest and Regeneration

In 2018 the 44 acre stand will have all merchantable timber harvested. It will be sprayed with herbicide and burned the following summer to produce a clean planting area for advanced generation Loblolly Pine seedling. These seedlings will be planted at 622 trees per acre on a 7x10 foot spacing.

OTHER PLAN ACTIVITIES

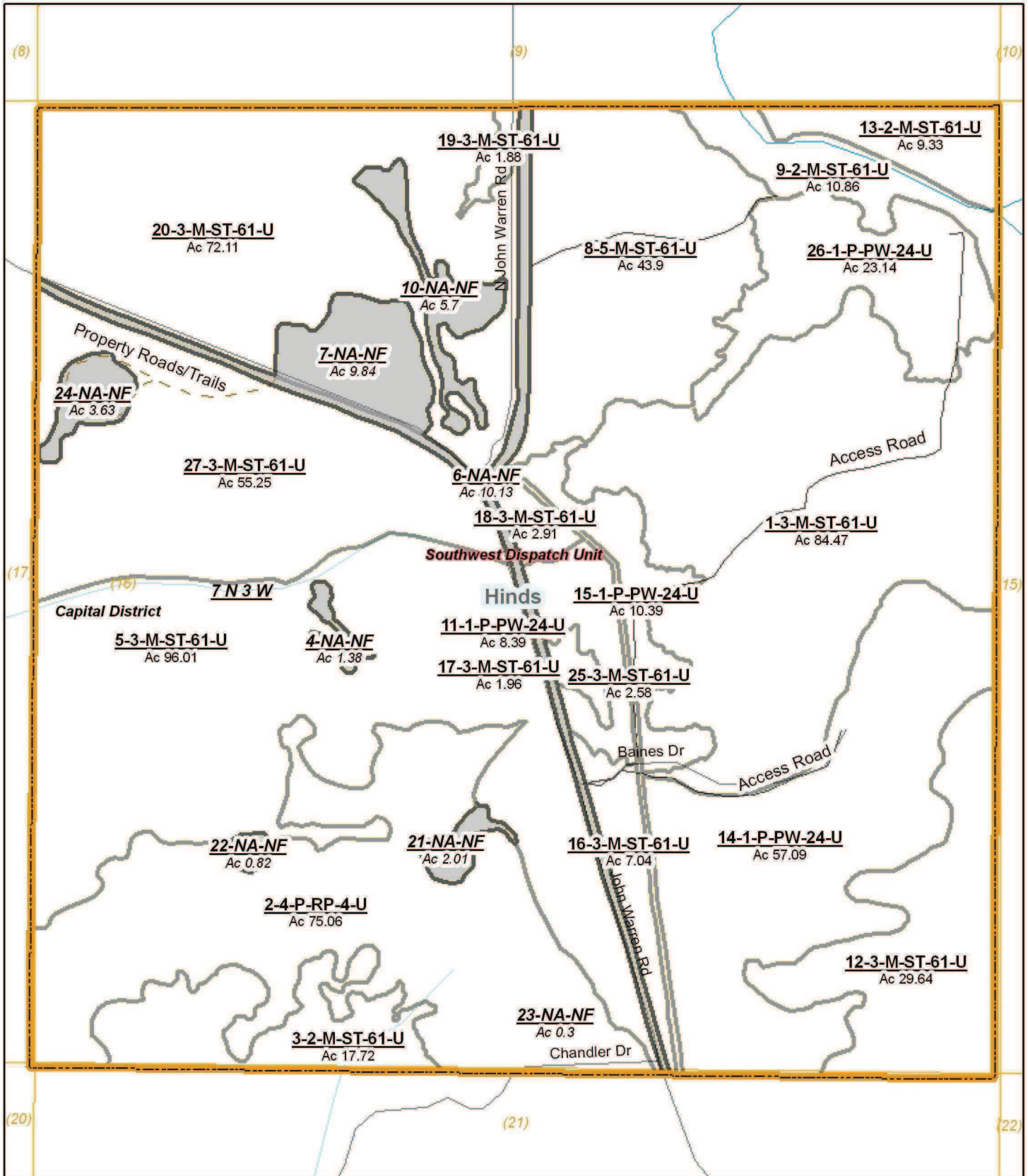
Boundary Lines

All boundary lines will be maintained and painted on a five year rotation starting in 2016.

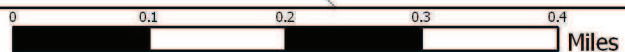


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SEC. 16 TWN 7N RGE 3W
2011 to 2021
643.56 Acres




(10/31/2011)






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Property

 Property (1)


Category 1: Stands

 Sawtimber (14)
 Reproduction (1)
 Pulpwood (4)


Category 3: Non-Forest Stands

 Non-Forest (8)

Boundary Corners

 Property (1)



Other

 UnLocked (2)

Property Roads/Trails


 Logging Road (1)
 Access Road (3)

Management Compartment


 Harvest (1)
 Stand Improvement (1)

MFC Basemap


County Boundary

 County Boundary (1)

Quadrangle Grid

 USGS Quad (1)


PLS Townships

 PLS Townships (1)


Survey Districts

 District 2 (1)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)


Block (Census 2000)

 Block (Census 2000) (7)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


County Roads

 County Roads (8)


School Sections

 School Sections (1)

Public School Districts

 HINDS COUNTY SCHOOL DISTRICT (1)

US Congressional District

 US Cong Dist #2 (1)

MS Senate

 26 (1)


MS House

 63 (1)


Perennial Streams

 Perennial Streams (3)


Intermittent Streams

 Intermittent Streams (2)


Hydrologic Units (Basins)

 LOWER BIG BLACK RIVER (1)


Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)



MS Forest Habitat

 DEEP LOESS PLAINS (1)



Physiographic Region

 LOESS HILLS (1)


Soil Associations

 riedtown-oaklimeter-ariel (1)
 memphis-natchez-collins (1)


Surface Geology

 CATAHOULA (1)
 VICKSBURG/CHICKASAWHAY (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for
Hinds County Schools
16 7N 3W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
3	12	Harvest, Mechanical, Thin, Machine, Misc Hardwood	30	\$1,500.00	\$20,400.00
3	14	Harvest, Mechanical, Final, Machine, Loblolly	57	\$2,850.00	\$75,436.65
3	16	Harvest, Mechanical, Final, Machine, Loblolly	7	\$350.00	\$7,434.49
Yearly Totals			94	\$4,700.00	\$103,271.14
2013					
3	14	Site Preparation, Chemical, Broadcast, Aerial, Combination	57	\$3,420.00	\$0.00
3	14	Site Preparation, Other, Burn, Hand, Debris	57	\$1,425.00	\$0.00
3	16	Site Preparation, Chemical, Broadcast, Aerial, Combination	7	\$455.00	\$0.00
3	16	Site Preparation, Other, Burn, Hand, Combination	7	\$175.00	\$0.00
Yearly Totals			128	\$5,475.00	\$0.00
2014					
3	14	Regeneration, Artificial, Plant, Hand, Loblolly	57	\$4,845.00	\$0.00
3	16	Regeneration, Artificial, Plant, Hand, Loblolly	7	\$595.00	\$0.00
Yearly Totals			64	\$5,440.00	\$0.00
2015					
3	20	Harvest, Mechanical, Final, Machine, Loblolly	72	\$2,520.00	\$97,704.00
Yearly Totals			72	\$2,520.00	\$97,704.00
2016					
3	20	Site Preparation, Chemical, Broadcast, Aerial, Combination	72	\$4,680.00	\$0.00
3	20	Site Preparation, Other, Burn, Hand, Cut-Over	72	\$1,800.00	\$0.00
Yearly Totals			144	\$6,480.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2017					
3	20	Regeneration, Artificial, Plant, Hand, Loblolly	72	\$6,120.00	\$0.00
Yearly Totals			72	\$6,120.00	\$0.00
2018					
1	11	Harvest, Mechanical, Final, Machine, Loblolly	8	\$280.00	\$11,600.00
1	15	Harvest, Mechanical, Final, Machine, Loblolly	10	\$350.00	\$14,500.00
1	26	Harvest, Mechanical, Final, Machine, Loblolly	23	\$805.00	\$33,350.00
3	17	Harvest, Mechanical, Final, Machine, Loblolly	2	\$70.00	\$1,946.00
3	18	Harvest, Mechanical, Final, Machine, Loblolly	3	\$105.00	\$5,010.00
5	8	Harvest, Mechanical, Final, Machine, Loblolly	44	\$1,540.00	\$81,400.00
Yearly Totals			90	\$3,150.00	\$147,806.00
2019					
1	11	Site Preparation, Other, Burn, Hand, Combination	8	\$200.00	\$0.00
1	11	Site Preparation, Chemical, Broadcast, Aerial, Combination	8	\$480.00	\$0.00
1	15	Site Preparation, Chemical, Broadcast, Aerial, Combination	10	\$600.00	\$0.00
1	15	Site Preparation, Other, Burn, Hand, Combination	10	\$250.00	\$0.00
1	26	Site Preparation, Other, Burn, Hand, Combination	23	\$575.00	\$0.00
1	26	Site Preparation, Chemical, Broadcast, Aerial, Combination	23	\$1,380.00	\$0.00
3	17	Site Preparation, Other, Burn, Hand, Combination	2	\$50.00	\$0.00
3	17	Site Preparation, Chemical, Broadcast, Aerial, Combination	2	\$120.00	\$0.00
3	18	Site Preparation, Chemical, Broadcast, Aerial, Combination	3	\$180.00	\$0.00
3	18	Site Preparation, Other, Burn, Hand, Combination	3	\$75.00	\$0.00
5	8	Site Preparation, Chemical, Broadcast, Aerial, Combination	44	\$2,640.00	\$0.00
5	8	Site Preparation, Other, Burn, Hand, Combination	44	\$1,100.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
			Yearly Totals	180	\$7,650.00	\$0.00
2020						
1	11	Regeneration, Artificial, Plant, Hand, Loblolly	8	\$680.00	\$0.00	
1	15	Regeneration, Artificial, Plant, Hand, Loblolly	10	\$850.00	\$0.00	
1	26	Regeneration, Artificial, Plant, Hand, Loblolly	23	\$1,955.00	\$0.00	
3	17	Regeneration, Artificial, Plant, Hand, Loblolly	2	\$170.00	\$0.00	
3	18	Regeneration, Artificial, Plant, Hand, Loblolly	3	\$255.00	\$0.00	
3	27	Harvest, Mechanical, Final, Machine, Loblolly	55	\$1,925.00	\$128,150.00	
5	8	Regeneration, Artificial, Plant, Hand, Loblolly	44	\$3,740.00	\$0.00	
			Yearly Totals	145	\$9,575.00	\$128,150.00
2021						
3	27	Site Preparation, Other, Burn, Hand, Cut-Over	55	\$1,375.00	\$0.00	
3	27	Site Preparation, Chemical, Broadcast, Aerial, Combination	55	\$4,675.00	\$0.00	
			Yearly Totals	110	\$6,050.00	\$0.00
			Grand Totals	1.099	\$57,160.00	\$476,931.14