



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Copiah County BOE

Prepared By:
Miles Henderson
MS Forestry Commission

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-01-18

Plan Type:
Stewardship / Stewardship

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

Property Name: S16 T9N R8E

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**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Name: Copiah County BOE
Mailing Address: 254 West Gallatin St.
City, State, Zip: Hazlehurst, MS 39083
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-894-1341
Fax Number:

E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Miles Henderson , Copiah County Service Forester
Forester Number: 02512
Organization: MS Forestry Commission
Street Address: P.O. Box 229
City, State, Zip: Hazlehurst, MS 39083
Contact Numbers: Office Number: 601-894-1131
Fax Number:
E-mail Address: mhenderson@mfc.state.ms.us

PROPERTY LOCATION

County: Copiah Total Acres: 631 Latitude: -90.41 Longitude: 31.75
Section: 16 Township: 9N Range: 8E

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

Timber Production

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.

Wildlife Management - General

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 the Wesson community. Primary access is off Dixie Garden Road and Highway 51. The section has various ages of pine timber ranging from pine reproduction to mature timber. Burning on this section is difficult due to the proximity of chicken houses and Highway 51.

Water Resources

A perennial water resource was identified during a reconnaissance of the property. The perennial stream and drains 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.

Archeological and Cultural Resources

A house exists on the east side of highway 51 as indicated on the attached map. This site will be buffered and designated with yellow paint on trees around the site. No forest management activities will occur inside of this protected area.

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

Soils

Providence silt loam (Prb2)(Prc2)- Moderately well drained with 2-8% slope. The erosion hazard is moderate and the runoff is medium. Available water capacity is moderate. The site index for loblolly pine and Shumard Oak is 87.

Smithdale sandy loam (SmE) - A well drained soil with a slope range of 12-17%. The erosion hazard is severe and the runoff is rapid. Available water capacity is high. The site index for loblolly pine is 86.

STRATA

Strata 1

Stand Description

Strata 1: Stands 9,10,12

Acres: 89

These are Loblolly Pine stands that were established in 1990. These stands were first thinned in 2007 and are currently in good health and well stocked.

Stand Recommendations

These stands will be managed to approximately 35-40 years. During this time frame, management activities such as thinning and herbicide applications will be used to maximize growth. At the end of this rotation a final harvest will be conducted and reforestation activities will be completed to return these stands to full production.

Activity Recommendations

Harvest

These stands are scheduled for a second thin in 2014, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning,

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using existing corridors from the first thin to reduce the stocking to 75 square feet of basal area per acre.

These stands are scheduled for a third thin in 2021, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning, using existing corridors from previous thins to reduce the stocking to 75 square feet of basal area per acre.

Strata 2

Stand Description

Strata 2: Stands 4,11,15,18,20,22

Acres: 63

These stands are permanent Streamside-Management-Zones (SMZs) that were established in 1970. These areas consist of natural mixed hardwood such as White Oak, Red Oak, and hickory.

Stand Recommendations

These stands will be managed as permanent Streamside-Management-Zones (SMZs). Mature timber will be harvested as timber sales are completed on adjacent stands. A minimum of 50% crown cover will be maintained to ensure that a quality SMZ is left. This SMZ is vital to reduce soil erosion and to protect water quality.

Strata 3

Stand Description

Strata 3: Stands 1, 25

Acres: 142

These stands were established in 1951 consisting of mainly mature pine with some scattered oak throughout the stands. These stands are fully stocked and in good health.

Strata Recommendations

Stand 25 (80 acres) is scheduled for a final harvest in 2014, and stand 1 (63 acres) is scheduled for a final harvest in 2019. Once final harvesting has been completed reforestation activities will be conducted, including aerial application of herbicides. Second generation Loblolly Pine seedlings will be used to reforest these stands. Once established they will be managed on a 35 to 40 year rotation.

Activity Recommendations

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Harvest

Stand 25 (80 acres) will be final harvested in 2014. This type of harvest removes all merchantable timber from the stand. This stand will be artificially reforested after the final harvest.

Stand 1 (63 acres) will be final harvested in 2019. This type of harvest removes all merchantable timber from the stand. This stand will be artificially reforested after the final harvest.

Site Preparation

Stand 25 will be aerially sprayed with herbicides to control unwanted hardwood competition and herbaceous weeds. This activity will be completed in 2016.

Stand 1 will be aerially sprayed with herbicides to control unwanted hardwood competition and herbaceous weeds. This activity will be completed in 2021.

Regeneration

Stand 25 will be hand planted in 2016 using 2nd generation Loblolly pine seedlings. Seedlings will be planted on a 10' x 7' spacing at a rate of 622 trees per acre. A deviation from the recommended planting rates will be limited to plus or minus 40 trees per acre. Planting should be done between December and February. A compliance check will be completed as this stand is planted to ensure proper planting. A survival study will be completed the following Fall to ensure sufficient stocking. Adverse weather conditions such as prolonged dry or cold periods should be taken into consideration when planting.

Stand 1 will be hand planted in 2021 using 2nd generation Loblolly pine seedlings. Seedlings will be planted on a 10' x 7' spacing at a rate of 622 trees per acre. A deviation from the recommended planting rates will be limited to plus or minus 40 trees per acre. Planting should be done between December and February. A compliance check will be completed as this stand is planted to ensure proper planting. A survival study will be completed the following Fall to ensure sufficient stocking. Adverse weather conditions such as prolonged dry or cold periods should be taken into consideration when planting.

Strata 4

Stand Description

Strata 4: Stands 2, 13, 14, 23

Acres: 66

These stands were hand planted in 2011 using 2nd generation loblolly Pine seedlings on a 10' x 7' spacing at 622 trees per acre. Compliance checks were completed as these

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stands were planted to ensure proper planting and stocking. Survival checks will be completed in the Fall to ensure an adequate survival rate.

Stand Recommendations

These stands will be managed to approximately 35-40 years. During this time frame, management activities such as thinning and herbicide applications will be used to maximize growth. At the end of this rotation a final harvest will be conducted and reforestation activities will be completed to return these stands to full production.

Strata 5

Stand Description

Strata 5: Stands 5,6,19,21,24

Acres: 74

These are sub-merchantable pine stands that were hand planted on a 10' x 7' spacing at a rate of 622 trees per acre in 2001 using 1st generation Loblolly Pine seedlings. These stands are well stocked and healthy.

Stand Recommendations

These stands will be managed to approximately 35-40 years. During this time frame, management activities such as thinning and herbicide applications will be used to maximize growth. At the end of this rotation a final harvest will be conducted and reforestation activities will be completed to return these stands to full production.

Activity Recommendations

Harvest

These stands will be first thinned in 2017. This will be a corridor thin, representing a third or fourth row thin, reducing the stocking to 75 square feet of basal area per acre. This thin will remove about 35% of this strata's volume.

Vegetation Control

These stands will have a release spray administered in Fall 2019 in the form of an aerial application of a herbicide that will be applied to the stands to control competing vegetation. The herbicide should conform to the manufacturer recommendation rates and specifications. A herbicide representative should be contacted to write a rate and application method recommendation.

Strata 6

Stand Description

Strata 6: Stands 7,16,17

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Acres: 55

These are sub-merchantable pine stands that were hand planted on a 10' x 7' spacing at a rate of 622 trees per acre in 2002 using 1st generation Loblolly Pine seedlings. These stands are well stocked and healthy.

Stand Recommendations

These stands will be managed to approximately 35-40 years. During this time frame management activities such as thinning and herbicide applications will be used to maximize growth. At the end of this rotation a final harvest will be conducted and reforestation activities will be completed to return these stands to full production.

Activity Recommendations

Harvest

These stands will be first thinned in 2018. This will be a corridor thin, representing a third or fourth row thin, reducing the stocking to 75 square feet of basal area per acre. This thin will remove about 35% of this strata's volume.

Vegetation Control

These stands will have a release spray administered in Fall 2020 in the form of an aerial application of a herbicide that will be applied to the stands to control competing vegetation. The herbicide should conform to the manufacturer recommendation rates and specifications. A herbicide representative should be contacted to write a rate and application method recommendation.

OTHER PLAN ACTIVITIES

Property Activities

Activity Recommendations

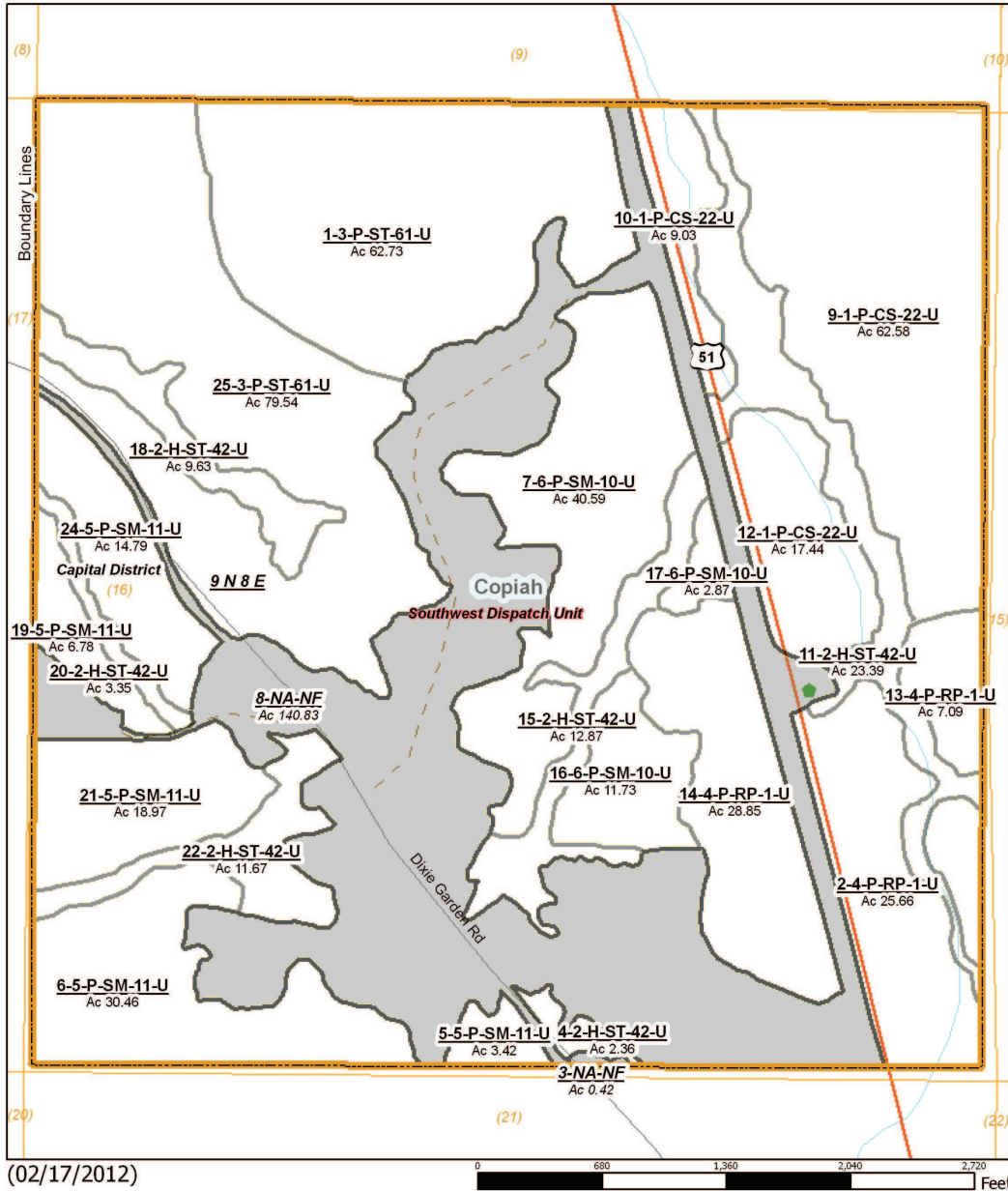
Routine inspections and general maintenance of the roads, firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

SEC 16 TWN 9N RGE 8E



Copiah Board of Education

SEC 16; TWN 9N; RGE 8E
2012 to 2021
631.31 Acres



SEC 16 TWN 9N RGE 8E



SEC 16; TWN 9N; RGE 8E

Property

- Property (1)

Category 1: Stands

- Reproduction (4)
- Sawtimber (8)
- Sub-Merchantable (8)
- Chip-n-Saw (3)

Category 3: Non-Forest Stands

- Non-Forest (2)

Structures

- Single-Family (1)

Property Roads/Trails

- Logging Road (2)

Boundary Lines

- Property (1)

Management Compartment

- Invasive Species Control (1)

MFC Basemap

County Boundary

- County Boundary (1)

Quadrangle Grid

- USGS Quad (2)

PLS Townships

- PLS Townships (1)

Survey Districts

- District 4 (1)

Blockgroup (Census 2000)

- Blockgroup (Census 2000) (1)

Block (Census 2000)

- Block (Census 2000) (5)

Tract/BNA (Census 2000)

- Tract/BNA (Census 2000) (1)

County Roads

- County Roads (2)

US/State Highways

- US Highway (1)

School Sections

- School Sections (1)

Public School Districts

- HAZLEHURST CITY SCHOOL DIST (1)
- COPIAH COUNTY SCHOOL DISTRICT (1)

US Congressional District

- US Cong Dist #2 (1)

MS Senate

- 36 (1)

MS House

- 62 (1)
- 76 (1)

Intermittent Streams

- Intermittent Streams (2)

Hydrologic Units (Basins)

- MIDDLE PEARL RIVER (1)
- BAYOU PIERRE (1)

Historic Forest Boundary

- Longleaf Pine with Loblolly Pine-Slash Pine (1)

MS Forest Habitat

- SOUTHERN LOESSIAL LOAM HILLS-RUGGED TOPO (1)

Physiographic Region

- SOUTH CENTRAL HILLS (1)

Soil Associations

- smithdale-providence-saffell (1)
- lorman-smithdale-loring (1)

Surface Geology

- PASCAGOULA/HATTIESBURG (2)
- CITRONELLE (1)

MFC Districts

- MFC Districts (1)

MFC Dispatch Units

- MFC Dispatch Units (1)

MS Outline

- MS Outline (1)

Stand Activity Summary for
Copiah County BOE
16 9N 8E

Filters Applied: County: Copiah
 Client Class: School Trust Land
 District: Capital District
 Client: Copiah County BOE
 STR: 16 9N 8E
 Activity:
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2014						
16 9N 8E	1	9	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	63	\$2,190.30	\$28,161.00
16 9N 8E	1	10	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	9	\$315.00	\$4,050.00
16 9N 8E	1	12	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	17	\$610.40	\$7,848.00
16 9N 8E	3	25	Harvest, Mechanical, Final, Machine, Loblolly	80	\$2,800.00	\$164,800.00
Yearly Totals				169	\$5,915.70	\$204,859.00
2016						
16 9N 8E	3	25	Site Preparation, Chemical, Broadcast, Aerial, Combination	80	\$5,965.50	\$0.00
16 9N 8E	3	25	Regeneration, Artificial, Plant, Hand, Loblolly	80	\$6,800.00	\$0.00
Yearly Totals				160	\$12,765.50	\$0.00
2017						
16 9N 8E	5	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	3	\$105.00	\$1,020.00
16 9N 8E	5	6	Harvest, Mechanical, 1st Thin, Machine, Loblolly	30	\$1,066.10	\$10,356.40
16 9N 8E	5	19	Harvest, Mechanical, 1st Thin, Machine, Loblolly	7	\$237.30	\$2,305.20
16 9N 8E	5	21	Harvest, Mechanical, 1st Thin, Machine, Loblolly	19	\$663.95	\$6,449.80
16 9N 8E	5	24	Harvest, Mechanical, 1st Thin, Machine, Loblolly	15	\$517.65	\$5,028.60
Yearly Totals				74	\$2,590.00	\$25,160.00
2018						
16 9N 8E	6	7	Harvest, Mechanical, 1st Thin, Machine, Loblolly	41	\$1,420.65	\$13,394.70

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
16 9N 8E	6	16	Harvest, Mechanical, 1st Thin, Machine, Loblolly	12	\$420.00	\$3,960.00	
16 9N 8E	6	17	Harvest, Mechanical, 1st Thin, Machine, Loblolly	3	\$100.45	\$947.10	
				Yearly Totals	55	\$1,941.10	\$18,301.80
2019							
16 9N 8E	3	1	Harvest, Mechanical, Final, Machine, Loblolly	63	\$2,205.00	\$127,764.00	
16 9N 8E	5	5	Vegetation Control, Chemical, Broadcast, Aerial, Woody	3	\$222.30	\$0.00	
16 9N 8E	5	6	Vegetation Control, Chemical, Broadcast, Aerial, Woody	30	\$1,979.90	\$0.00	
16 9N 8E	5	19	Vegetation Control, Chemical, Broadcast, Aerial, Woody	7	\$440.70	\$0.00	
16 9N 8E	5	21	Vegetation Control, Chemical, Broadcast, Aerial, Woody	19	\$1,233.05	\$0.00	
16 9N 8E	5	24	Vegetation Control, Chemical, Broadcast, Aerial, Woody	15	\$961.35	\$0.00	
				Yearly Totals	137	\$7,042.30	\$127,764.00
2020							
16 9N 8E	6	7	Vegetation Control, Chemical, Broadcast, Aerial, Combination	41	\$2,638.35	\$0.00	
16 9N 8E	6	16	Vegetation Control, Chemical, Broadcast, Aerial, Combination	12	\$762.45	\$0.00	
16 9N 8E	6	17	Vegetation Control, Chemical, Broadcast, Aerial, Combination	3	\$186.55	\$0.00	
				Yearly Totals	55	\$3,587.35	\$0.00
2021							
16 9N 8E	1	9	Harvest, Mechanical, Thin, Machine, Loblolly	63	\$2,205.00	\$47,250.00	
16 9N 8E	1	10	Harvest, Mechanical, Thin, Machine, Loblolly	9	\$316.05	\$6,772.50	
16 9N 8E	1	12	Harvest, Mechanical, Thin, Machine, Loblolly	17	\$610.40	\$13,080.00	
16 9N 8E	3	1	Regeneration, Artificial, Plant, Hand, Loblolly	63	\$5,355.00	\$0.00	
16 9N 8E	3	1	Site Preparation, Chemical, Broadcast, Aerial, Combination	63	\$4,725.00	\$0.00	
				Yearly Totals	215	\$13,211.45	\$67,102.50
				Grand Totals	866	\$47,053.40	\$443,187.30