



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 T2N R4W**

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

## TABLE OF CONTENTS

LANDOWNER INFORMATION .....	3
FORESTER INFORMATION .....	3
DISCLAIMER .....	3
INTRODUCTION .....	3
OBJECTIVES .....	4
PROPERTY DESCRIPTION .....	4
GENERAL PROPERTY RECOMMENDATIONS .....	5
SOIL TYPES .....	7
STRATA .....	7
OTHER PLAN ACTIVITIES .....	12
PLAN MAP .....	13
PLAN MAP .....	14
STRATA ACTIVITY SCHEDULE .....	15

**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: 638    Latitude: -90.61    Longitude: 32.01  
Section: 16    Township: 2N    Range: 4W

**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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**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 northwest portion of Copiah County. Primary access is off Hoodtown road. The section is has several pine plantations ranging from 1 years to 22 years old. There is also 86 acres of mature pine-hardwood sawtimber and 108 acres of Streamside Management Zones. The terrain is steep to moderately rolling.

*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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*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 hunting camp exists in the south portion of Stand 4 as indicated on the attached map. This site will be buffered and designated with yellow paint and flagging 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*.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**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

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

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**

*Soil Type*

Smithdale -Lexington Association (ST)- Is a well drained soil with a slope range of 5-40%. As a result the erosion hazard is severe. Available water capacity is moderate. The site index for loblolly pine is 86.

Loring silt loam (Lob2)(Loc2)- Moderately well drained with a slope range of 2-5%. Available water capacity is moderate. The erosion hazard is moderate and the runoff is medium. The site index for loblolly pine is 95.

**STRATA**

*Strata 1*

Stand Description

Strata 1: Stands 10,15,18

Acres: 122

These are Loblolly Pine stands that were established in 1989. These stands were first thinned in 2004 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 2012, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning,

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 thinning in 2018, 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: Stand 28

Acres: 43

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

Stand Recommendations

This stand 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 this stand to full production.

Activity Recommendations

Harvest

This stand 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 stand's volume.

*Strata 3*

Stand Description

Strata 3: Stands 1,7,8

Acres: 74

These stands are permanent Streamside-Management-Zones (SMZs) that were established in 1949. These stands consist of White Oak, various red oak, and hickory species.



**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 4*

Stand Description

Strata 4: Stands 4,5,16,17,19

Acres: 170

These are Loblolly Pine stands that were established in 1997. These stands were first thinned in 2010 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

Stand 5(75 acres) is scheduled for a second thin in 2016, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning, using existing corridors from the first thin to reduce the stocking to 75 square feet of basal area per acre.

Stands 4,16,17,19(94 acres) are scheduled for a second thin in 2018, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning, using existing corridors from the first thin to reduce the stocking to 75 square feet of basal area per acre.

Vegetation Control

Stand 5 will have a release spray administered in Fall 2018 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.

Stands 4,16,17,19 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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*Strata 5*

Stand Description

Strata 5: Stands 2,27

Acres: 86

These are mature stands of upland hardwood and scattered Loblolly Pine. The hardwood consists of various red oak species and sweetgum.

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 final harvest in 2012. This harvest will remove all merchantable timber within these stands. Following the final harvest, these stands will be reforested using 2nd generation Loblolly Pine seedlings.

Site Preparation

These stands will be aerially sprayed with herbicides to control unwanted hardwood competition and herbaceous weeds. This activity will be completed in 2013.

Regeneration

These stands will be hand planted in 2013 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. Compliance checks will be completed as these stands are 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 6*

Stand Description

Strata 6: Stand 13

Acres: 60

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

This is a Loblolly Pine stand that was hand planted in 2011 using 2nd generation loblolly Pine seedlings on a 10' x 7' spacing at 622 trees per acre. A compliance check was completed as this stand was being planted to ensure proper planting. A survival check will be completed in the Fall to ensure an adequate survival rate.

**Stand Recommendations**

This stand 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 this stand to full production.

*Strata 7*

**Stand Description**

Strata 7: Stands 6,9

Acres: 42

These are unthinned Loblolly Pine stands that were established in 1989. These stands have not been thinned due to terrain and access issues. These stands are currently overstocked.

**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 2012. 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.

These stands are scheduled for a second thin in 2018, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning, using existing corridors from the first thin to reduce the stocking to 75 square feet of basal area per acre.

*Strata 8*

**Stand Description**

Strata 8: Stands 11,12,14

Acres: 34

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

These stands are permanent Streamside-Management-Zones (SMZs) that were established in 1953. These stands consist of White Oak, various red oaks, and sweetgum. Portions of these stands were thinned in 2010, due to harvest activities on adjacent stands.

**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.

**OTHER PLAN ACTIVITIES**

*Property Activities*

**Activity Recommendations**

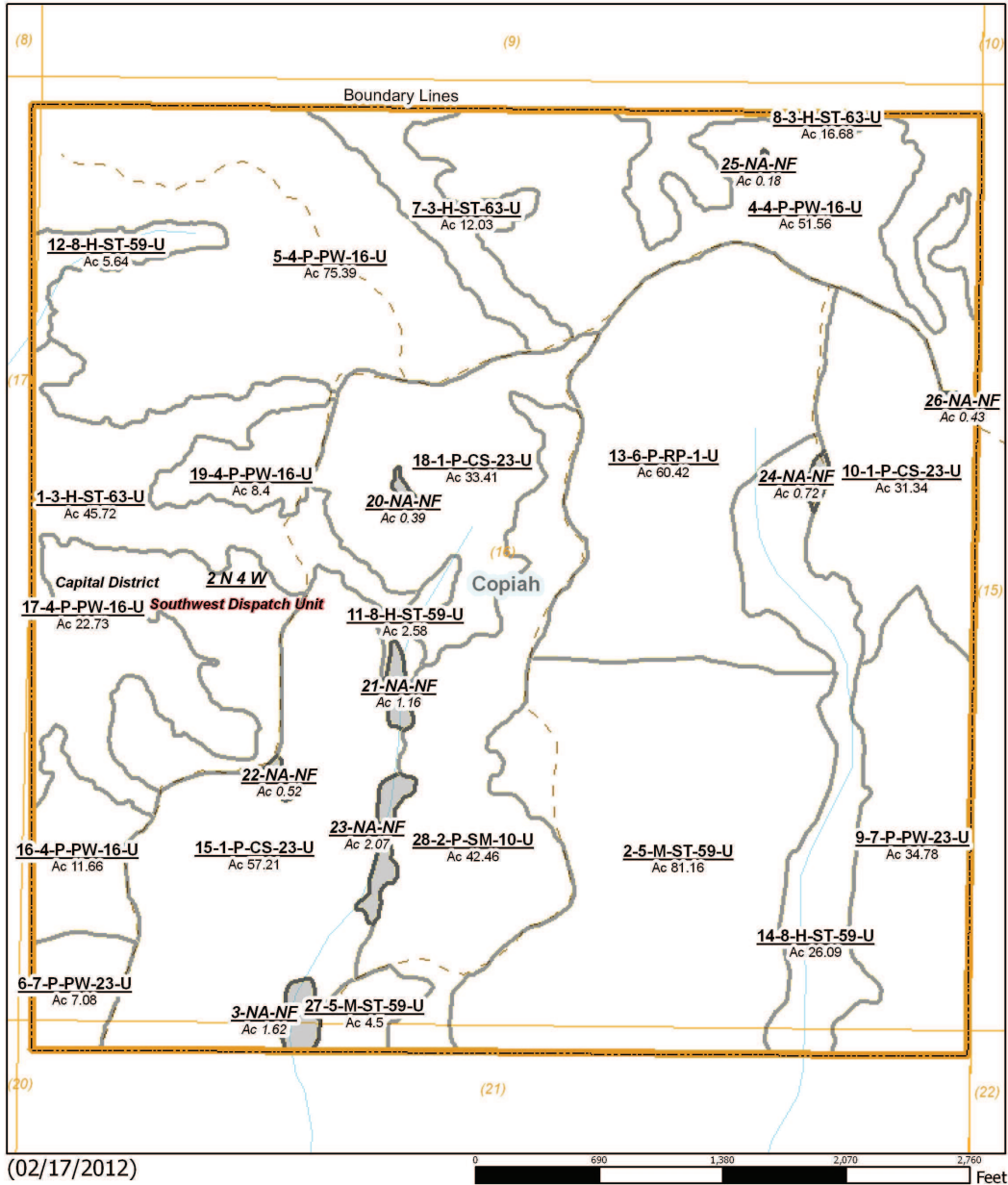
Routine inspections and general maintenance of the roads, firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

SEC 16 TWN 2N RGE 4W



**Copiah Board of Education**

SEC 16; TWN 2N; RGE 4W  
2012 to 2021  
637.90 Acres



# SEC 16 TWN 2N RGE 4W



## SEC 16; TWN 2N; RGE 4W

### Property

- Property (1)

### Category 1: Stands

- Sawtimber (8)
- Pulpwood (7)
- Chip-n-Saw (3)
- Reproduction (1)
- Sub-Merchantable (1)

### Category 3: Non-Forest Stands

- Non-Forest (8)

### Other

- Locked (1)

### Property Roads/Trails

- Logging Road (4)

### Boundary Lines

- Property (1)

### Management Compartment

- Harvest (2)
- Wildlife Management (3)
- Fire Protection (2)

## 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) (1)

### Tract/BNA (Census 2000)

- Tract/BNA (Census 2000) (1)

### School Sections

- School Sections (1)

### Public School Districts

- COPIAH COUNTY SCHOOL DISTRICT (1)

### US Congressional District

- US Cong Dist #2 (1)

### MS Senate

- 36 (1)

### MS House

- 76 (1)

### Intermittent Streams

- Intermittent Streams (3)

### Dam Locations

- Dam Locations (1)

### Hydrologic Units (Basins)

- BAYOU PIERRE (1)

### Historic Forest Boundary

- Shortleaf/Longleaf Pine-Upland Hardwood-Loblolly Pine (1)

### MS Forest Habitat

- SOUTHERN LOESSIAL LOAM HILLS-RUGGED TOPO (1)

### Physiographic Region

- SOUTH CENTRAL HILLS (1)

### Soil Associations

- smithdale-lexington-providence (1)

### Surface Geology

- CATAHOULA (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 2N 4W

**Filters Applied:** County: Copiah  
 Client Class: School Trust Land  
 District: Capital District  
 Client: Copiah County BOE  
 STR: 16 2N 4W  
 Activity:  
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>						
16 2N 4W	1	10	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	31	\$1,096.90	\$14,103.00
16 2N 4W	1	15	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	57	\$2,002.35	\$25,744.50
16 2N 4W	1	18	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	33	\$1,155.00	\$14,850.00
16 2N 4W	5	2	Harvest, Mechanical, Final, Machine, Loblolly	81	\$2,835.00	\$135,513.00
16 2N 4W	5	27	Harvest, Mechanical, Final, Machine, Misc Red Oak	5	\$175.00	\$8,115.00
16 2N 4W	7	6	Harvest, Mechanical, 1st Thin, Machine, Loblolly	7	\$247.80	\$3,115.20
16 2N 4W	7	9	Harvest, Mechanical, 1st Thin, Machine, Loblolly	35	\$1,225.00	\$15,400.00
<b>Yearly Totals</b>				<b>250</b>	<b>\$8,737.05</b>	<b>\$216,840.70</b>
<b>2014</b>						
16 2N 4W	5	2	Site Preparation, Chemical, Broadcast, Aerial, Combination	81	\$6,480.00	\$0.00
16 2N 4W	5	2	Regeneration, Artificial, Plant, Hand, Loblolly	81	\$6,885.00	\$0.00
16 2N 4W	5	27	Regeneration, Artificial, Plant, Hand, Loblolly	5	\$425.00	\$0.00
16 2N 4W	5	27	Site Preparation, Chemical, Broadcast, Aerial, Combination	5	\$400.00	\$0.00
<b>Yearly Totals</b>				<b>172</b>	<b>\$14,190.00</b>	<b>\$0.00</b>
<b>2016</b>						
16 2N 4W	4	5	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	75	\$2,625.00	\$36,300.00
16 2N 4W	4	16	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	12	\$420.00	\$5,808.00
16 2N 4W	4	17	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	23	\$805.00	\$11,132.00

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
16 2N 4W	4	19	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	8	\$280.00	\$3,872.00	
				<b>Yearly Totals</b>	<b>118</b>	<b>\$4,130.00</b>	<b>\$57,112.00</b>
<b>2017</b>							
16 2N 4W	2	28	Harvest, Mechanical, 1st Thin, Machine, Loblolly	42	\$1,470.00	\$12,390.00	
				<b>Yearly Totals</b>	<b>42</b>	<b>\$1,470.00</b>	<b>\$12,390.00</b>
<b>2018</b>							
16 2N 4W	1	10	Harvest, Mechanical, Thin, Machine, Loblolly	31	\$1,096.90	\$20,997.80	
16 2N 4W	1	15	Harvest, Mechanical, Thin, Machine, Loblolly	57	\$2,002.35	\$38,330.70	
16 2N 4W	1	18	Harvest, Mechanical, Thin, Machine, Loblolly	33	\$1,155.00	\$22,110.00	
16 2N 4W	4	4	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	52	\$1,820.00	\$25,168.00	
16 2N 4W	4	5	Vegetation Control, Chemical, Broadcast, Aerial, Combination	75	\$4,875.00	\$0.00	
16 2N 4W	4	16	Vegetation Control, Chemical, Broadcast, Aerial, Combination	12	\$780.00	\$0.00	
16 2N 4W	4	17	Vegetation Control, Chemical, Broadcast, Aerial, Combination	23	\$1,495.00	\$0.00	
16 2N 4W	4	19	Vegetation Control, Chemical, Broadcast, Aerial, Combination	8	\$520.00	\$0.00	
16 2N 4W	7	6	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	7	\$247.80	\$4,035.60	
16 2N 4W	7	9	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	35	\$1,225.00	\$19,950.00	
				<b>Yearly Totals</b>	<b>334</b>	<b>\$15,217.05</b>	<b>\$130,592.10</b>
<b>2020</b>							
16 2N 4W	4	4	Vegetation Control, Chemical, Broadcast, Aerial, Combination	52	\$3,380.00	\$0.00	
				<b>Yearly Totals</b>	<b>52</b>	<b>\$3,380.00</b>	<b>\$0.00</b>
				<b>Grand Totals</b>	<b>967</b>	<b>\$47,124.10</b>	<b>\$416,934.80</b>