



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 R5E**

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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: 637    Latitude: -90.71    Longitude: 31.75  
Section: 16    Township: 9N    Range: 5E

**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 southwest portion of Copiah County. Access can be gained from Legget road off of Highway 28. Access to eastern portion of the section is off Twiner road, this crosses private property. The timber on this section consists of overmature Pine Sawtimber, sub-merchantable pine plantations, and a recent clear cut. This section is best suited for pine management. There is one large pine plantation, 269 acres, that was 1st thinned in 2010. The timber is well stocked and in good health.

*Water Resources*

Several perennial water resources were identified during a reconnaissance of the property. The perennial streams 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 cemetery and a hunting camp exists within this section as indicated on the attached map. The cemetery is located in the northwest portion of the section in stand 10. the hunting camp is located along Twiner Lane. These sites 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*.

*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.

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

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*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**

*Gb*

The Gillsburg component makes up 90 percent of the map unit. 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 somewhat poorly drained. Water movement in the most restrictive layer is moderately low. 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 18 inches during January, February, March, April, 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. Loblolly Site Index = 90.

*PrB2*

The Providence component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March. 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 = 87. Longleaf Site Index = 73.

*LoB2*

The Loring component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer, fragipan, is 14 to 35 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 28 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 95.

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**STRATA**

*Strata 1*

Stand Description

Strata 1: Stands 27

Acres: 5

This is a mature pine and hardwood stand that was established in 1952 consisting of mainly mature Loblolly pine, Red Oak, and White Oak.

Stand Recommendations

This stand will be final harvested when a final harvest is scheduled for Strata 2. Then these two strata's will be combined into one strata.

Activity Recommendations

Harvest

Stand 27 (5 acres) will be managed with Strata 2 stand 6. This stand will be final harvested along with Strata 2.

*Strata 2*

Stand Description

Strata 2: Stands 6,10,11,12,14,20

Acres: 269

These are Loblolly Pine stands that were established in 1993. 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

Stands 6,10,11 (113 acres) are 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 12 and 14 (117 acres) are scheduled for a second thin in 2018, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator



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

Stand 20 (39 acres) is scheduled for a second thin in 2020, 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.

**Fire Protection**

A prescribed burn is recommended in 2013 to reduce fuel loads and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning. Another prescribed burn is scheduled in 2018 for Stands 6,10,11. Stands 12 and 14 are scheduled for a prescribe burn in 2020.

*Strata 3*

**Stand Description**

Strata 3: Stands 13,15,16,19,21

Acres: 145

These stands are permanent Streamside-Management-Zones (SMZs) that were established in 1943. These stands consist of White Oak, Red Oak, hickory, and some scattered Loblolly Pine.

**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 1,2,5

Acres: 65

These are Loblolly Pine stands that were established in 1988. These stands were first thinned in 2003 and are currently in good health and well stocked.

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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

A third thin is scheduled in 2020, focusing on removing poor quality, diseased, or poorly formed trees. This will be an operator select thinning, using existing corridors from the previous thins to reduce the stocking to 75 square feet of basal area per acre.

*Strata 5*

Stand Description

Strata 5: Stands 23,24

Acres: 58

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 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 stand's volume.

Forest Health

A prescribed burn is recommended in 2020 to reduce fuel loads and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

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*Strata 6*

Stand Description

Strata 6: Stands 8,9

Acres: 16

These are natural Loblolly Pine stands that were established in 1976. These stands were first thinned in 2010. Stand 8 (7 acres) will be managed with Strata 2.

Strata Recommendations

Due to the small acres, these stands will be harvested with Strata 2 stands. These stands will be combined with Strata 2 to make one strata after the final harvest.

Activity Recommendations

Harvest

Stand 9 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.

*Strata 7*

Stand Description

Strata 7: Stands 3,4,17,18,22,25

Acres: 73

These stands were final harvested in 2011. These stands are scheduled for reforestation in 2013 using 2nd generation Loblolly Pine seedlings.

Strata Recommendations

These stands were final harvested in 2011. 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

Site Preparation

These stands will be aeriially sprayed with herbicides to control unwanted hardwood competition and herbaceous weeds. This activity will be completed in 2011.

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Regeneration

These stands will be hand planted in 2012 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.

**OTHER PLAN ACTIVITIES**

*Property Activities*

Activity Recommendations

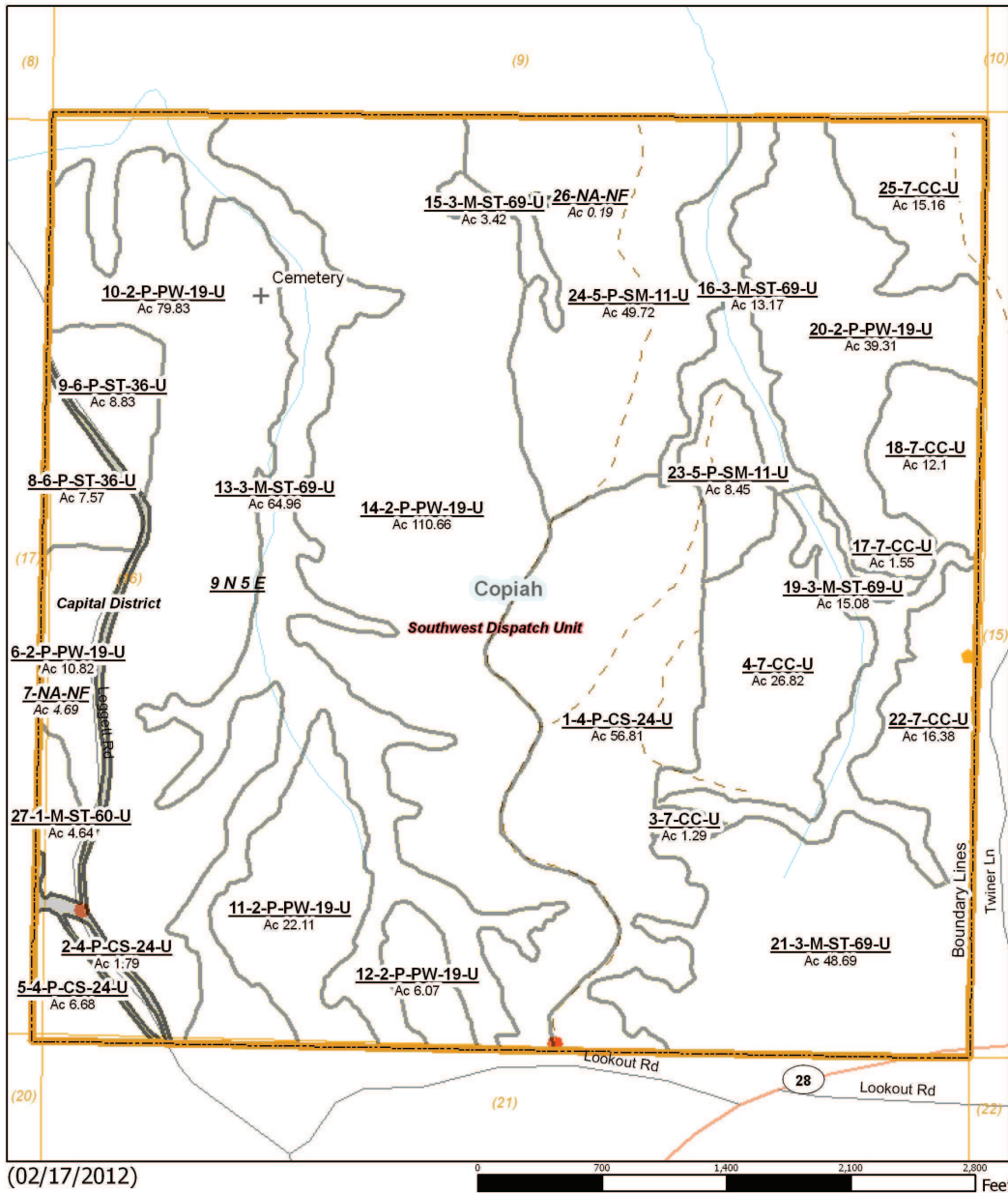
Routine inspections and general maintenance of the roads, firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

SEC 16 TWN 9N RGE 5E



**Copiah Board of Education**

SEC 16; TWN 9N; RGE 5E  
2012 to 2021  
636.78 Acres



# SEC 16 TWN 9N RGE 5E



## SEC 16; TWN 9N; RGE 5E

### Property

Property (1)

### Category 1: Stands

- Sawtimber (8)
- Clear Cut (6)
- Chip-n-Saw (3)
- Pulpwood (6)
- Sub-Merchantable (2)

### Category 3: Non-Forest Stands

Non-Forest (2)

### Restricted Sites

Cemetery (1)

### Structures

Camp House (1)

### Other

Locked (2)

### Property Roads/Trails

Logging Road (5)

### Boundary Lines

Property (1)

### Management Compartment

- Harvest (6)
- SMZ (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) (3)

### Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (1)

### County Roads

County Roads (1)

### US/State Highways

State Highway (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 (4)

### Hydrologic Units (Basins)

HOMOCHITTO RIVER (1)  
 BAYOU PIERRE (1)

### Historic Forest Boundary

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

### MS Forest Habitat

SOUTHERN LOESSIAL LOAM HILLS-RUGGED TOPO (1)

### Physiographic Region

SOUTH CENTRAL HILLS (1)

### Soil Associations

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

### Surface Geology

CITRONELLE (1)

### USFS Ownership

Forest Service (2)

### USFS Boundary

Homochitto (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 5E

**Filters Applied:** County: Copiah  
Client Class: School Trust Land  
District: Capital District  
Client: Copiah County BOE  
STR: 16 9N 5E  
Activity:  
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>						
16 9N 5E	2	10	Fire Protection, Other, Burn, Hand, Fuel Reduction	80	\$1,995.75	\$0.00
16 9N 5E	2	11	Fire Protection, Other, Burn, Hand, Fuel Reduction	22	\$552.75	\$0.00
16 9N 5E	2	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	6	\$151.75	\$0.00
16 9N 5E	2	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	111	\$2,775.00	\$0.00
16 9N 5E	7	3	Regeneration, Artificial, Plant, Hand, Loblolly	1	\$109.65	\$0.00
16 9N 5E	7	3	Site Preparation, Chemical, Broadcast, Aerial, Combination	1	\$80.00	\$0.00
16 9N 5E	7	4	Site Preparation, Chemical, Broadcast, Aerial, Combination	27	\$2,145.60	\$0.00
16 9N 5E	7	4	Regeneration, Artificial, Plant, Hand, Loblolly	27	\$2,295.00	\$0.00
16 9N 5E	7	17	Site Preparation, Chemical, Broadcast, Aerial, Combination	2	\$124.00	\$0.00
16 9N 5E	7	17	Regeneration, Artificial, Plant, Hand, Loblolly	2	\$170.00	\$0.00
16 9N 5E	7	18	Site Preparation, Chemical, Broadcast, Aerial, Combination	12	\$968.00	\$0.00
16 9N 5E	7	18	Regeneration, Artificial, Plant, Hand, Loblolly	12	\$1,028.50	\$0.00
16 9N 5E	7	22	Regeneration, Artificial, Plant, Hand, Loblolly	16	\$1,360.00	\$0.00
16 9N 5E	7	22	Site Preparation, Chemical, Broadcast, Aerial, Combination	16	\$1,310.40	\$0.00
16 9N 5E	7	25	Site Preparation, Chemical, Broadcast, Aerial, Combination	15	\$1,212.80	\$0.00
16 9N 5E	7	25	Regeneration, Artificial, Plant, Hand, Loblolly	15	\$1,288.60	\$0.00

Yearly Totals 366 \$17,567.80 \$0.00

**2016**

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
16 9N 5E	2	6	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	11	\$378.70	\$5,410.00
16 9N 5E	2	10	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	80	\$2,800.00	\$40,000.00
16 9N 5E	2	11	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	22	\$773.85	\$11,055.00
16 9N 5E	6	9	Harvest, Mechanical, Thin, Machine, Loblolly	9	\$315.00	\$4,590.00

<b>Yearly Totals</b>				<b>122</b>	<b>\$4,267.55</b>	<b>\$61,055.00</b>
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## 2018

16 9N 5E	2	10	Forest Health, Other, Burn, Hand, Southern Pine Beetle	80	\$1,995.75	\$0.00
16 9N 5E	2	11	Forest Health, Other, Burn, Hand, Southern Pine Beetle	22	\$552.75	\$0.00
16 9N 5E	2	12	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	6	\$210.00	\$3,000.00
16 9N 5E	2	14	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	111	\$3,885.00	\$55,500.00
16 9N 5E	5	23	Harvest, Mechanical, 1st Thin, Machine, Loblolly	8	\$280.00	\$2,720.00
16 9N 5E	5	24	Harvest, Mechanical, 1st Thin, Machine, Loblolly	50	\$1,740.20	\$16,904.80

<b>Yearly Totals</b>				<b>277</b>	<b>\$8,663.70</b>	<b>\$78,124.80</b>
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## 2020

16 9N 5E	2	12	Forest Health, Other, Burn, Hand, Southern Pine Beetle	6	\$150.00	\$0.00
16 9N 5E	2	14	Forest Health, Other, Burn, Hand, Southern Pine Beetle	111	\$2,775.00	\$0.00
16 9N 5E	2	20	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	39	\$1,365.00	\$19,500.00
16 9N 5E	4	1	Harvest, Mechanical, Thin, Machine, Loblolly	57	\$1,995.00	\$46,740.00
16 9N 5E	4	2	Harvest, Mechanical, Thin, Machine, Loblolly	2	\$62.65	\$1,467.80
16 9N 5E	4	5	Harvest, Mechanical, Thin, Machine, Loblolly	7	\$233.80	\$5,477.60
16 9N 5E	5	23	Forest Health, Other, Burn, Hand, Southern Pine Beetle	8	\$211.25	\$0.00
16 9N 5E	5	24	Forest Health, Other, Burn, Hand, Southern Pine Beetle	50	\$1,243.00	\$0.00

<b>Yearly Totals</b>				<b>280</b>	<b>\$8,035.70</b>	<b>\$73,185.40</b>
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## 2021



STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
16 9N 5E	3	21	Harvest, Mechanical, Thin, Machine, Misc Red Oak	49	\$1,715.00	\$67,865.00	
				Yearly Totals	49	\$1,715.00	\$67,865.00
				<b>Grand Totals</b>	<b>1.093</b>	<b>\$40,249.75</b>	<b>\$280,230.20</b>