



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 T12N 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: 515 Latitude: -90.71 Longitude: 32.01
Section: 16 Township: 12N 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 515 acres and located in the far northwest portion of Covich County. Primary access is Myles Station Road. There are two primary access roads into the section, which have locked gates at their entrances. The section has three distinct timber types: Loblolly pine plantations planted in 1999, sub-merchantable hardwoods planted in 1999, and Loblolly pine plantations planted in 2011. This section also consists of non-forested open land and unproductive wet areas. This is a very wet natured section, so access is limited to four-wheeler in the winter months. There has also been a beaver problem on this section from time to time.

Water Resources

No perennial water resources were identified during a reconnaissance of the property. However, intermittent streams and drains were identified and 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

No Archeological or Cultural resources were identified during a reconnaissance of the property. However, if Archeological or Cultural resources are discovered anytime on the property special managements measures will be applied immediately in order preserve these sensitive areas.

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

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.

Soil Type

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.
Calloway silt loam (CoA)- Poorly drained with a slope range of 0-2%. Available water capacity is moderate. The erosion hazard is slight and the runoff is slow. The site index for loblolly pine is 90 and 90 for Cherrybark oak.

Loring silt loam (LoA)- Moderately well drained with a slope range of 0-2%. Available water capacity is moderate. The erosion hazard is slight and the runoff is slow. The site index for loblolly pine is 95.

STRATA

Strata 1

Strata Description

Strata 1: Stands 5,6,13,24,26

Acres: 147

These stands were machine planted on a 10' x 7' spacing at a rate of 622 trees per acre in 1999 using genetically improved Loblolly Pine seedlings. These stands are well stocked

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and healthy. Due to a high basal area of 145 sq. ft. per acre and an average DBH of 8.3", these stands were first thinned in 2011.

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 5,6,24, and 26 (101 acres) are scheduled for a second thin in 2017, 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.

Stand 13 (46 acres) is scheduled for a second thin in 2019, along with Strata 5 Stands 20 and 27, 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 2014 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.

Strata 2

Stand Description

Strata 2: Stands 1,14,21,31

Acres: 64

These stands were machine planted in 1999 using miscellaneous hardwood species such as Nuttall, Swamp Chestnut, and Shumard Oak. These seedlings were planted on a 12' x 12' spacing at 302 trees per acre. Survival was poor in places and will be monitored annually.

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Stand Recommendations

These stands will be managed to approximately 65-75 years. This stand should be monitored annually for future management needs. 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 3

Stand Description

Strata 3: Stands 2,8,10,11,23,29,30

Acres: 120

These are Loblolly Pine stands that 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 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.

Activity Recommendations

Post Plant

These stands are scheduled for a herbaceous weed control spray in Fall 2011. This activity will minimize unwanted herbaceous competition. The herbicide will be applied aerially following the labels recommendations.

Strata 4

Stand Description

Strata 4: Stands 9,28,32

Acres: 6

These stands are permanent Streamside-Management-Zones (SMZs) that were established in 1951. These areas consist of natural mixed hardwood.

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.

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Strata 5

Strata Description

Strata 5: Stands 16,17,20,27

Acres: 131

These stands were machine planted on a 10' x 7' spacing at a rate of 622 trees per acre in 1999 using genetically improved Loblolly Pine seedlings. These stands are well stocked and healthy. Due to a high basal area of 145 sq. ft. per acre and an average DBH of 8.3", these stands were first thinned in 2011.

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 20 and 27 (37 acres), along with Strata 1 Stand 13, are scheduled for a second thin in 2019, 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 16 and 17 (94 acres) are scheduled for a second thin in 2021, 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 2014 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.

OTHER PLAN ACTIVITIES

Property Activities

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Activity Recommendations

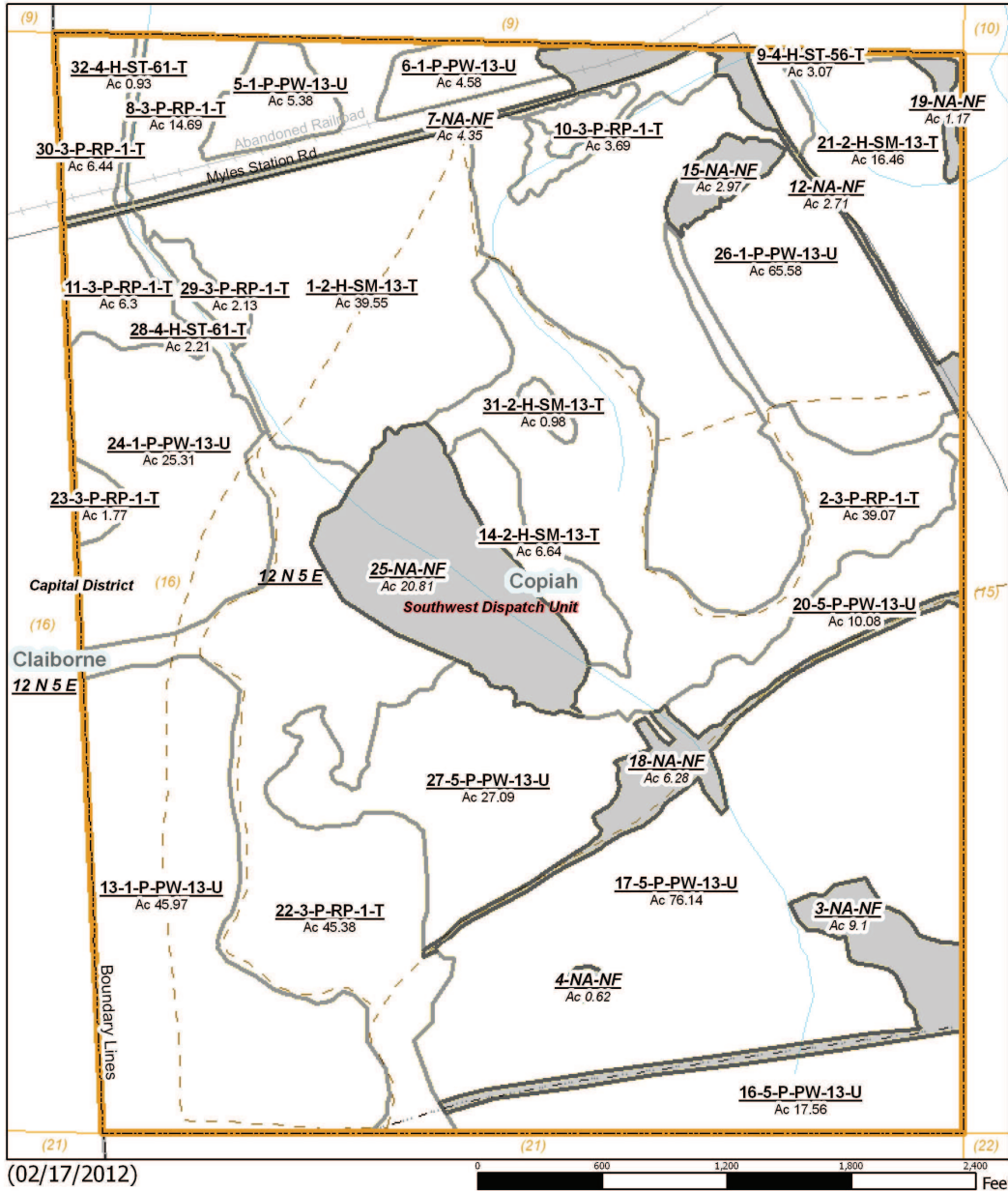
Routine inspections and general maintenance of the roads, firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

SEC 16 TWN 12N RGE 5E



Copiah Board of Education

SEC 16; TWN 12N; RGE 5E
2012 to 2021
515.01 Acres



SEC 16 TWN 12N RGE 5E



SEC 16; TWN 12N; RGE 5E

Property

Property (1)

Category 1: Stands

- Sub-Merchantable (4)
- Reproduction (8)
- Pulpwood (9)
- Sawtimber (3)

Category 3: Non-Forest Stands

Non-Forest (8)

Property Roads/Trails

Logging Road (5)

Boundary Lines

Property (1)

Utilities (Lines)

Utility Line (1)

MFC Basemap

County Boundary

County Boundary (2)

Quadrangle Grid

USGS Quad (2)

PLS Townships

PLS Townships (2)

Survey Districts

District 4 (2)

Blockgroup (Census 2000)

Blockgroup (Census 2000) (2)

Block (Census 2000)

Block (Census 2000) (6)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (2)

County Roads

County Roads (3)

Abandoned Railroads

Abandoned Railroads (1)

School Sections

School Sections (1)

Public School Districts

COPIAH COUNTY SCHOOL DISTRICT (2)

CLAIBORNE COUNTY SCHOOL DIST (1)

US Congressional District

US Cong Dist #2 (2)

MS Senate

36 (2)

MS House

76 (1)

85 (1)

Intermittent Streams

Intermittent Streams (2)

Hydrologic Units (Basins)

BAYOU PIERRE (2)

Historic Forest Boundary

Shortleaf/Longleaf Pine-Upland Hardwood-Loblolly Pine (2)

MS Forest Habitat

SOUTHERN LOESSIAL LOAM HILLS-RUGGED TOPO (2)

Physiographic Region

SOUTH CENTRAL HILLS (2)

LOESS HILLS (1)

Soil Associations

loring-calloway-gillsburg (2)

riedtown-oaklimeter-ariel (1)

Surface Geology

CATAHOULA (3)

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 12N 5E

Filters Applied: County: Copiah
 Client Class: School Trust Land
 District: Capital District
 Client: Copiah County BOE
 STR: 16 12N 5E
 Activity:
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012						
16 12N 5E	3	2	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	39	\$2,930.25	\$0.00
16 12N 5E	3	8	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	15	\$1,101.75	\$0.00
16 12N 5E	3	10	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	4	\$276.75	\$0.00
16 12N 5E	3	11	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	6	\$472.50	\$0.00
16 12N 5E	3	22	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	45	\$3,403.50	\$0.00
16 12N 5E	3	23	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	2	\$132.75	\$0.00
16 12N 5E	3	29	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	2	\$159.75	\$0.00
16 12N 5E	3	30	Post Plant, Chemical, Broadcast, Aerial, Herbaceous	6	\$483.00	\$0.00
Yearly Totals				119	\$8,960.25	\$0.00
2014						
16 12N 5E	1	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	5	\$134.50	\$0.00
16 12N 5E	1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	5	\$114.50	\$0.00
16 12N 5E	1	13	Fire Protection, Other, Burn, Hand, Fuel Reduction	46	\$1,149.25	\$0.00
16 12N 5E	1	24	Fire Protection, Other, Burn, Hand, Fuel Reduction	25	\$632.75	\$0.00
16 12N 5E	1	26	Fire Protection, Other, Burn, Hand, Fuel Reduction	66	\$1,639.50	\$0.00
16 12N 5E	5	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	18	\$439.00	\$0.00
16 12N 5E	5	17	Fire Protection, Other, Burn, Hand, Fuel Reduction	76	\$1,903.50	\$0.00
16 12N 5E	5	20	Fire Protection, Other, Burn, Hand, Fuel Reduction	10	\$250.00	\$0.00

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
16 12N 5E	5	27	Fire Protection, Other, Burn, Hand, Fuel Reduction	27	\$677.25	\$0.00
Yearly Totals				278	\$6,940.25	\$0.00
2017						
16 12N 5E	1	5	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	5	\$175.00	\$2,400.00
16 12N 5E	1	6	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	5	\$175.00	\$2,400.00
16 12N 5E	1	24	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	25	\$875.00	\$12,000.00
16 12N 5E	1	26	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	66	\$2,310.00	\$31,680.00
Yearly Totals				101	\$3,535.00	\$48,480.00
2019						
16 12N 5E	1	13	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	46	\$1,610.00	\$22,080.00
16 12N 5E	5	20	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	10	\$352.80	\$4,838.40
16 12N 5E	5	27	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	27	\$945.00	\$12,960.00
Yearly Totals				83	\$2,907.80	\$39,878.40
2021						
16 12N 5E	5	16	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	18	\$630.00	\$8,640.00
16 12N 5E	5	17	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	76	\$2,660.00	\$36,480.00
Yearly Totals				94	\$3,290.00	\$45,120.00
Grand Totals				675	\$25,633.30	\$133,478.40