



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Lowndes County BOE

Prepared By:  
S. Todd Matthews  
MS Forestry Commission

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-28

Plan Type:  
Stewardship / Stewardship

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

**Property Name: Caledonia Lieu Lands 30, 19-15S16W**

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

## TABLE OF CONTENTS

LANDOWNER INFORMATION .....	3
FORESTER INFORMATION .....	3
INTRODUCTION .....	3
DISCLAIMER .....	3
OBJECTIVES .....	4
PROPERTY DESCRIPTION .....	4
GENERAL PROPERTY RECOMMENDATIONS .....	5
SOIL TYPES .....	6
STRATA .....	6
OTHER PLAN ACTIVITIES .....	8
PLAN MAP .....	10
STRATA ACTIVITY SCHEDULE .....	11

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Lowndes County BOE  
Mailing Address: 1053 Highway 45 South  
City, State, Zip: Columbus, MS 39701  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-329-5722  
Fax Number: 662-244-5043  
  
E-mail Address:  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: S. Todd Matthews , Service Forester  
Forester Number: 02102  
Organization: MS Forestry Commission  
Street Address: 717 5th Street N.  
City, State, Zip: Columbus, MS 39701  
Contact Numbers: Office Number: 662-327-3352  
Fax Number:  
E-mail Address: tmatthews@mfc.state.ms.us

**PROPERTY LOCATION**

County: Lowndes    Total Acres: 390    Latitude: -88.26    Longitude: 33.74  
Section: 30    Township: 15S    Range: 16W

**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.

**DISCLAIMER**

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.

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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**OBJECTIVES**

*Fire Protection*

The goal is to protect the resource from wildfires, by establishing and maintaining firebreaks around the property; annually inspect possible signs of insect infestations and disease; and prohibit grazing until terminal bud is beyond reach of livestock.

*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 referred to as "Caledonia Lieu Lands", and is located on Honnoll Mill Road. The majority of the stand is mixed hardwood and loblolly pine. This section has approximately 395 forested acres of timber. Though most of the timber is chip and saw, it is on poor soil and growing very slowly. All of the timber on this stand was harvest seeded in 1972 and then re-seeded later when the property belonged to Weyerhaeuser.

*Water Resources*

No perennial water resources were identified during a reconnaissance of the property. However, intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

*Threatened and Endangered Species*

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

*Archaeological or Cultural Resources*

These areas can range from churches, old cemeteries or Indian mounds to old home sites or other areas of historical significance.

No Archaeological or Cultural Resources Were Identified:

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

No archaeological or cultural resources were identified during a reconnaissance of the property; However, if archaeological or cultural resources are discovered any time on the property, special management measures will be applied immediately in order to preserve these sensitive areas.

*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.

## **GENERAL PROPERTY RECOMMENDATIONS**

*Forest Protection*

A vigorous, 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

Boundary lines on this section will be maintained by the Mississippi Forestry Commission on a 4 year rotation. All boundary lines will be marked in red paint.

**SOIL TYPES**

*SR*

The Smithdale component makes up 50 percent of the map unit. Slopes are 17 to 35 percent. This component is on hillslopes. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Saffell component makes up 24 percent of the map unit. Slopes are 17 to 35 percent. This component is on hillslopes on hills. The parent material consists of gravelly alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

*Ma*

The Mantachie component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium. 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 high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, 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 = 98.

**STRATA**

*Strata 1 (includes stands 3, 4, 5)*

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

Strata Description

Like much of this section, these stands are primarily stocked with pine chip and saw. The terrain is quite steep and care should be taken to prevent erosion following the harvest. These stands were harvest seeded and are 40 years old. The pine basal area is 33 square feet per acre and there are about 60 trees per acre. The hardwood basal area is 38 square feet per acre and there are 82 trees per acre. These trees average 48 feet in height.

Activity Recommendations

Harvest

These stands are scheduled for a regeneration harvest in 2013.

Regeneration

Following harvest, these stands should be replanted with genetically improved Loblolly pine seedlings at a rate of 691 trees per acre.

Post Plant

These stands should be treated for both woody and herbaceous competition with a aerial broadcast chemical application.

*Strata 2 (includes stand 7)*

Strata Description

Like much of this section, these stands are primarily stocked with pine chip and saw. The terrain is quite steep and care should be taken to prevent erosion following the harvest. These stands were harvest seeded and are 40 years old. The pine basal area is 35 square feet per acre and there are about 56 trees per acre. The hardwood basal area is 35 square feet per acre and there are 62 trees per acre. These trees average 48 feet in height.

Activity Recommendations

Harvest

These stands are scheduled for a regeneration harvest in 2012.

Regeneration

Following harvest, these stands should be replanted with genetically improved Loblolly pine seedlings at a rate of 691 trees per acre.

Post Plant

These stands should be treated for both woody and herbaceous competition with a aerial broadcast chemical application.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*Strata 3 (includes stand 1)*

Strata Description

Like much of this section, these stands are primarily stocked with pine chip and saw. The terrain is quite steep and care should be taken to prevent erosion following the harvest. These stands were harvest seeded and are 40 years old. The pine basal area is 33 square feet per acre and there are about 60 trees per acre. The hardwood basal area is 38 square feet per acre and there are 82 trees per acre. These trees average 48 feet in height.

Strata Recommendations

This stand should be monitored periodically. No activities are scheduled for this stand during the timeframe of this management plan.

*Strata 4 (includes stand 2)*

Strata Description

Like much of this section, these stands are primarily stocked with pine chip and saw. The terrain is quite steep and care should be taken to prevent erosion following the harvest. These stands were harvest seeded and are 40 years old. The pine basal area is 35 square feet per acre and there are about 56 trees per acre. The hardwood basal area is 35 square feet per acre and there are 62 trees per acre. These trees average 48 feet in height.

Strata Recommendations

This stand should be monitored periodically. No activities are scheduled for this stand during the timeframe of this management plan.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

Line Description

The boundary line was last painted in May 2011.

Line Recommendations

The property line should be re-painted in 2015 and 2019.

Activity Recommendations

Property Activities

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



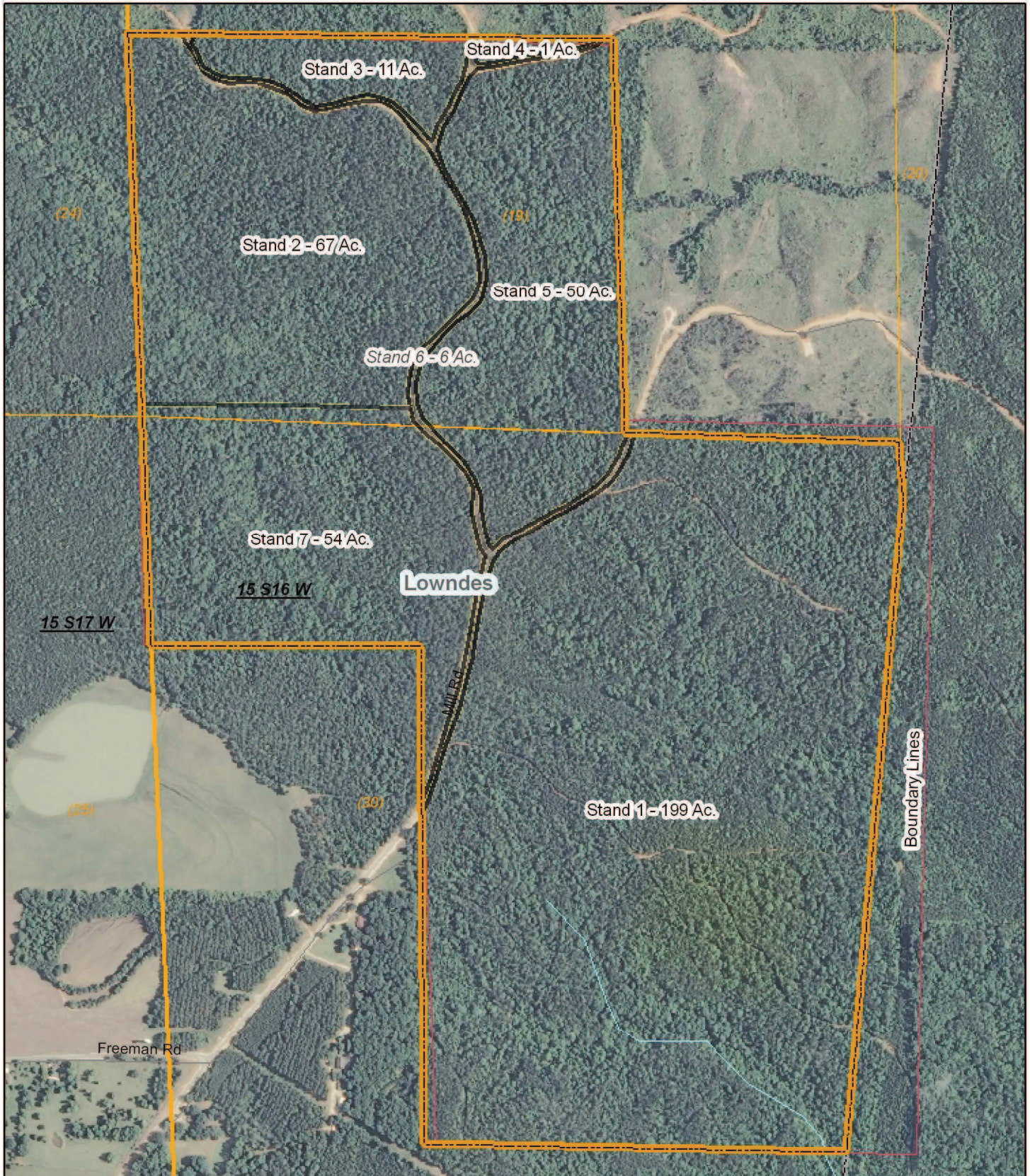


# Caledonia Lieu Lands

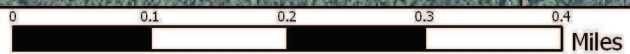
S30, 19-T15S-R16W

2012 to 2021

390 Acres



(01/23/2012)



# Caledonia Lieu Lands



## Property

- Property

## Category 1: Stands

- Clear Cut
- Non-Stocked
- Reproduction
- Sub-Merchantable
- Pulpwood
- Chip-n-Saw
- Sawtimber
- Poles

## Category 2: Stands

- Clear Cut
- Non-Stocked
- Reproduction
- Sub-Merchantable
- Pulpwood
- Chip-n-Saw
- Sawtimber
- Poles

## Category 3: Non-Forest Stands

- Non-Forest

## Category 4: Not in Plan Stands

- Not in Plan

## Category 5: Features Only Plan Stand

- Features Only Plan

## Restricted Sites

- Archeology
- Cemetery
- Red-Cockaded Woodpecker
- Gopher Tortoise
- Picture Bogg Plant

## Forest Health (Points)

- Cogan Grass
- Kudzu
- Japanese Climbing Fern
- Chinese Tallow
- Privet
- Southern Pine Beetle
- Sirex Wasp
- IPPS

## Hydrology (Points)

- Concrete Dam
- Beaver Dam
- Earthen Dam
- Permanent
- Temporary
- Wooden
- Other
- Culvert
- Pond

## Wildlife (Points)

- Food Plot
- Water Hole
- Feeder

## Boundary Corners

- Property
- Section
- Quarter Section
- Areas

## Structures

- Barn
- Tractor Shed
- Out Building
- Single-Family
- Multi-Family
- Camp House
- Club House
- Office Building
- Manufacturing
- Warehouse
- Chicken House
- Horse Stall
- Milking Parlor
- Hog Pen
- Blind
- Stand
- Hospital
- Nursing Home
- Dr. Clinic
- State Facility
- Office
- Work Center
- Materials Depot
- Prison
- School
- Church
- Mosque
- Synagogue
- Other

## Cruise Plots

- Pre-Cruise
- Post-Cruise

## Other

- Towers
- Logging Deck
- Locked
- UnLocked
- Water
- Oil
- Natural Gas

## Property Roads/Trails

- Drive Ways
- Access Road
- Logging Road
- Skid Trail
- Farm Road
- Hiking Trail
- Horseback Riding Trail

## Boundary Lines

- Archeology
- Cemetery
- Drilling Sites
- Education

## Boundary Lines (cont)

- Forest Health
- Invasive Species
- Management Compartment
- Military Area
- Natural Area
- Property
- Recreation
- Rights of Way
- SMZ
- Special Use
- Stand
- Surface Mining
- Threatened/Endangered Species
- Visual Buffer

## Fire Control

- Temporary Line
- Permanent Fire Break

## Wildlife (Lines)

- Green Strip

## Fire

- Mitigation Burn
- Silviculture Burn
- Site-Prep Burn
- Wildfire

## School Land Lease

- Hunting
- Minerals
- Recreation

## Restricted Area

- SMZ
- Archeology
- Cemetery
- Visual Buffer
- Special Use
- Natural Area
- Education
- Recreation
- Military Area
- Large Utility
- Red-Cockaded Woodpecker
- Gopher Tortoise
- Picture Bogg Plant
- Coal
- Gravel
- Dirt
- Water
- Oil
- Natural Gas

## Forest Health (Polygons)

- Cogan Grass
- Kudzu
- Japanese Climbing Fern
- Chinese Tallow
- Privet
- Southern Pine Beetle
- Sirex Wasp
- IPPS

## School Land Classification

- Forest Land
- Farm/Residential Land
- Residential Land
- Agricultural Land
- Industrial Land
- Recreational Land
- Catfish Farming Land
- Other Land
- Commercial Land

## Management Compartment

- Management
- Regeneration
- Site Preparation
- Post Plant
- Site Improvement
- Vegetation Control
- Stand Improvement
- Invasive Species Control
- Harvest
- Fire Protection
- Technical
- Wildlife Management
- Property Activities
- Roads
- SMZ
- Forest Health
- Recreation
- Site Restoration

## Transportation (Lines)

- City Streets
- County Roads
- 3 Digit Highway
- Interstate Highway
- US Highway
- State Highway
- Natchez Trace Parkway
- Runways/Airports
- Active RR
- Abandoned RR

## Hydrology (Lines)

- Mississippi River
- Major River
- Primary Stream
- Intermittent Stream
- Canal
- Ditch
- Earthen Dam
- Concrete Dam

## Utilities (Lines)

- Large Electrical
- Local Utility
- Large Pipeline
- Small Pipeline
- Gas Line
- Utility Line
- Water Line

Stand Activity Schedule for  
Lowndes County BOE  
30 15S 16W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
<b>2012</b>						
2	7	Harvest, Mechanical, Regeneration, Machine, Loblolly	54	\$1,890.00	\$50,220.00	
			Yearly Totals	54	\$1,890.00	\$50,220.00
<b>2013</b>						
2	7	Post Plant, Chemical, Broadcast, Aerial, Woody	54	\$2,700.00	\$0.00	
2	7	Regeneration, Artificial, Plant, Hand, Loblolly	54	\$4,860.00	\$0.00	
			Yearly Totals	108	\$7,560.00	\$0.00
<b>2014</b>						
1	3	Harvest, Mechanical, Regeneration, Machine, Loblolly	11	\$390.60	\$9,039.60	
1	4	Harvest, Mechanical, Regeneration, Machine, Loblolly	1	\$47.25	\$1,093.50	
1	5	Harvest, Mechanical, Regeneration, Machine, Loblolly	50	\$1,750.00	\$40,500.00	
			Yearly Totals	63	\$2,187.85	\$50,633.10
<b>2015</b>						
1	3	Regeneration, Artificial, Plant, Hand, Loblolly	11	\$1,004.40	\$0.00	
1	3	Post Plant, Chemical, Broadcast, Aerial, Woody	11	\$558.00	\$0.00	
1	4	Regeneration, Artificial, Plant, Hand, Loblolly	1	\$121.50	\$0.00	
1	4	Post Plant, Chemical, Broadcast, Aerial, Woody	1	\$67.50	\$0.00	
1	5	Regeneration, Artificial, Plant, Hand, Loblolly	50	\$4,541.40	\$0.00	
1	5	Post Plant, Chemical, Broadcast, Aerial, Woody	50	\$2,500.00	\$0.00	
			Yearly Totals	125	\$8,792.80	\$0.00
			<b>Grand Totals</b>	<b>350</b>	<b>\$20,430.65</b>	<b>\$100,853.10</b>