



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: August Landing 16-20S-17W**

## 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 .....	7
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: 635    Latitude: -88.32    Longitude: 33.32  
Section: 16    Township: 20S    Range: 17W

**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.

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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 the "August Landing" section, and is located on Spurlock Road. Approximately 18 acres of the tract is pine chip-n-saw. About 8 acres are pine pulpwood. There are 77 acres of hardwood sawtimber; however, about 28 acres of that is cypress and tupelo and on ground that holds water almost year round. Two stands are considered non-stocked. They are areas that were previously agriculture fields that were allowed to go fallow. They total about 90 acres. The remainder of this section is considered non-forested even though there are occasionally some pines that were planted as windbreaks for the agricultural fields. Because there are so many small stands on this section, care should be taken to schedule activities to benefit the largest acreage possible.

*Water Resources*

The Tenn-Tom Waterway runs through the Southwest corner of this tract. This along with any 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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*Archeological 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 Archeological or Cultural Resources Were Identified:

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.

*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*.

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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 have not previously been maintained. The Mississippi Forestry Commission will work with the Lowndes County School Board to establish the boundary lines, and then maintain them on a 4 year rotation.

**SOIL TYPES**

*St*

The Steens component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions. 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 21 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.

*La*

The Latonia component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy over sandy alluvium 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 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. 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 2s. This soil does not meet hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 70. Slash Site Index = 90.

*PuA*

The Prentiss component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy alluvium deposits. Depth to a root restrictive layer, fragipan, is 20 to 32 inches. The natural drainage class is moderately well drained. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 26 inches during January, February, March. 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 = 88.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*CaA*

The Cahaba component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy 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 moderate. 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 1. This soil does not meet hydric criteria. Loblolly Site Index = 87. Slash Site Index = 91.

*Gy*

The Guyton component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on terraces. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. 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 9 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The soil has a slightly sodic horizon within 30 inches of the soil surface. Loblolly Site Index = 85. Slash Site Index = 90.

## **STRATA**

*Strata 1 (includes stands 5)*

Strata Description

This is the only pine pulpwood stand on the entire section. It is about 8.5 acres and was open planted in 1993. This stand averages 100 square feet of basal area per acre and averages 550 trees per acre. The average merchantable height for these trees is 50 feet.

Activity Recommendations

This stand is scheduled to be thinned in 2015 then burned in 2016 and 2019.

Harvest

This stand is scheduled to be thinned in 2015. This stand should be thinned to a Basal Area 75 +/-5.

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 20?? and be repeated on a two or three year rotation thereafter. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

This stand is scheduled to be burned in 2018 and 2021.

*Strata 2 (includes stands 3,9,10)*

Strata Description

These mixed stands are natural areas that have grown to be primarily pine chip-and-saw. The trees are about 18 years old and the average merchantable height is about 45 feet. The average basal area for these stands is 90 square feet per acre.

Activity Recommendations

These stands should be thinned in 2015 and then burned in 2016 and 2019.

Harvest

These stands should be thinned in 2015 to a Basal Area 75 +/-5.

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 20?? and be repeated on a two or three year rotation thereafter. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

This strata is scheduled to be burned in 2018 and 2021.

*Strata 3 (includes stands 6,7,8)*

Strata Description

These stands are primarily low grade open-grown hardwood sawtimber. They average about 18 years old. They average 70 square feet of basal area per acre and about 200 trees per acre.

Activity Recommendations

Harvest

A regeneration harvest is scheduled for these stands in 2018.

Site Preparation

It is recommended that these stands be sheared and raked following the harvest.



**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

Regeneration

It is recommended that these stands be replanted with genetically improved Loblolly seedlings at a rate of 691 trees per acre.

Post Plant

Following planting, these stands should be released with a combination woody/herbaceous chemical treatment to be applied aerially.

*Strata 4 (includes stands 2,4)*

Strata Description

These stands are considered non-stocked. They were previously ag fields that were allowed to go fallow.

Strata Recommendations

These stands are scheduled for harvest in 2015. The expectation is that a market for biofuel will be established by that time.

Activity Recommendations

Harvest

These stands are scheduled for a harvest in 2015. The expected product is primarily biomass.

Regeneration

These stands should be replanted with genetically improved Loblolly pine seedlings. These stands should be stocked at a rate of 691 trees per acre.

Post Plant

These stands are scheduled to be released following planting. Woody and herbaceous competition should be targeted with an aerially broadcast chemical application.

*Strata 5 (includes stand 11)*

Strata Description

This is a 26 year old natural hardwood stand primarily stocked with cypress and tupelo. The soil is very wet and water stands here almost year round. The basal area averages about 80 square feet per acre and there are about 300 trees per acre.



# August Landing

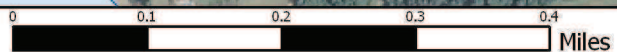
S16-T20S-R17W

2012 to 2021

635 Acres



(01/23/2012)



# August Landing



## 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  
16 20S 17W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
<b>2015</b>						
1	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	8	\$280.00	\$1,200.00	
2	3	Harvest, Mechanical, Thin, Machine, Misc Hardwood	6	\$210.00	\$1,500.00	
2	9	Harvest, Mechanical, Thin, Machine, Misc Hardwood	9	\$331.45	\$2,367.50	
2	10	Harvest, Mechanical, Thin, Machine, Misc Hardwood	2	\$69.65	\$497.50	
4	2	Harvest, Mechanical, BioMass, Machine, Loblolly	61	\$2,135.00	\$24,400.00	
4	4	Harvest, Mechanical, BioMass, Machine, Loblolly	29	\$1,015.00	\$11,600.00	
			<b>Yearly Totals</b>	<b>115</b>	<b>\$4,041.10</b>	<b>\$41,565.00</b>
<b>2016</b>						
4	2	Post Plant, Chemical, Broadcast, Aerial, Combination	61	\$3,050.00	\$0.00	
4	2	Regeneration, Artificial, Plant, Hand, Loblolly	61	\$5,490.00	\$0.00	
4	4	Post Plant, Chemical, Broadcast, Aerial, Combination	29	\$1,450.00	\$0.00	
4	4	Regeneration, Artificial, Plant, Hand, Loblolly	29	\$2,610.00	\$0.00	
			<b>Yearly Totals</b>	<b>180</b>	<b>\$12,600.00</b>	<b>\$0.00</b>
<b>2018</b>						
1	5	Fire Protection, Other, Burn, Hand, Hazard Mitigation	8	\$200.00	\$0.00	
2	3	Fire Protection, Other, Burn, Hand, Hazard Mitigation	6	\$150.00	\$0.00	
2	9	Fire Protection, Other, Burn, Hand, Hazard Mitigation	9	\$236.75	\$0.00	
2	10	Fire Protection, Other, Burn, Hand, Hazard Mitigation	2	\$49.75	\$0.00	
3	6	Harvest, Mechanical, Regeneration, Machine, Loblolly	3	\$90.65	\$2,719.50	
3	7	Harvest, Mechanical, Regeneration, Machine, Loblolly	5	\$175.00	\$5,250.00	

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
3	8	Harvest, Mechanical, Regeneration, Machine, Loblolly	41	\$1,435.00	\$43,050.00	
			<b>Yearly Totals</b>	<b>74</b>	<b>\$2,337.15</b>	<b>\$51,019.50</b>
<b>2019</b>						
3	6	Regeneration, Artificial, Plant, Hand, Loblolly	3	\$233.10	\$0.00	
3	6	Site Preparation, Mechanical, Shear/Rake, Machine, Cut-Over	3	\$518.00	\$0.00	
3	6	Post Plant, Chemical, Broadcast, Aerial, Combination	3	\$129.50	\$0.00	
3	7	Site Preparation, Mechanical, Shear/Rake, Machine, Cut-Over	5	\$1,000.00	\$0.00	
3	7	Post Plant, Chemical, Broadcast, Aerial, Combination	5	\$250.00	\$0.00	
3	7	Regeneration, Artificial, Plant, Hand, Loblolly	5	\$450.00	\$0.00	
3	8	Regeneration, Artificial, Plant, Hand, Loblolly	41	\$3,690.00	\$0.00	
3	8	Site Preparation, Mechanical, Shear/Rake, Machine, Cut-Over	41	\$8,200.00	\$0.00	
3	8	Post Plant, Chemical, Broadcast, Aerial, Combination	41	\$2,050.00	\$0.00	
			<b>Yearly Totals</b>	<b>146</b>	<b>\$16,520.60</b>	<b>\$0.00</b>
<b>2021</b>						
1	5	Fire Protection, Other, Burn, Hand, Hazard Mitigation	8	\$200.00	\$0.00	
2	3	Fire Protection, Other, Burn, Hand, Hazard Mitigation	6	\$150.00	\$0.00	
2	9	Fire Protection, Other, Burn, Hand, Hazard Mitigation	9	\$236.75	\$0.00	
2	10	Fire Protection, Other, Burn, Hand, Hazard Mitigation	2	\$49.75	\$0.00	
			<b>Yearly Totals</b>	<b>25</b>	<b>\$636.50</b>	<b>\$0.00</b>
			<b>Grand Totals</b>	<b>541</b>	<b>\$36,135.35</b>	<b>\$92,584.50</b>