



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Leflore County BOE

Prepared By:  
Wesley James Howard  
MS Forestry Commission

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-13

Plan Type:  
Stewardship / Stewardship

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

**Property Name: S16-T17N-R1W**

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Leflore County BOE  
Mailing Address: 1901 HWY 82 West  
City, State, Zip: Greenwood , MS 38930  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-453-8566  
Fax Number:  
  
E-mail Address:  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Wesley James Howard , Service Forester  
Forester Number: 02521  
Organization: MS Forestry Commission  
Street Address: 9600 Hwy 17  
City, State, Zip: Carrollton, MS 38917  
Contact Numbers: Office Number: 662-237-6732  
Fax Number:  
  
E-mail Address: whoward@mfc.state.ms.us

**PROPERTY LOCATION**

County: Leflore    Total Acres: 641    Latitude: -90.31    Longitude: 33.34  
Section: 16    Township: 17N    Range: 1W

**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*

Section 16\_T17N\_R1W is +/- 641 acres of agricultural fields and bottomland hardwood timber. Only 277 acres of this section is forested. Dominate species found are nuttall oak, willow oak, and sweetgum. The section is located off of County Road 534 4 miles southeast of Morgan City, Mississippi. Property's topography is low, with low lying areas that hold water during wet months. Access will become an issue for management activities such as harvesting. Mississippi Best Management Practices will be followed to prevent any impacts on water quality.

*Water Resources*

An intermittent drainage ditch system resides on the property. The drainage ditches prevent flooding in adjoining agriculture fields. The drainage system runs from the West boundary. A pond resides in the central portion of the section. Section drains into the Eden Creek water shed, which drains into the Yazoo River watershed. Mississippi's Best Management Practices such as stream side management zones (SMZ) will be utilized to protect water resources.

*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 this property.

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If any threatened and /or endangered species are discovered, immediate management procedures will be applied to protect these sensitive natural resources for future generations.

### *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.

### *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. Mississippi Best Management Practices will be implemented to prevent any adverse effects.

### *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 vigorous growing stand is the best defense to an attack from a variety of forest insects, plants, and pathogens.

**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.

### 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

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- 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.

### 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.

Currently boundaries are not clearly marked on the section. Boundaries should be surveyed and clearly marked especially on the South boundary of the section. This part of the section is still in timber and meets another landowner's property. Boundaries will need to be established before any management activities such as harvesting can take place. Once the boundaries have been surveyed the MFC will maintain these boundaries.

### *Water Quality Protection*

The objective of the landowner is to protect, conserve, and enhance all water resources and drainages on or transecting the property. This objective can be met by implementing Mississippi's Best Management Practices in all aspects of management practices.

Protection for water resources must be given in order to maintain the water quality. This protection will be done by the use of stream side management zones (SMZ's) as well as following all Mississippi Best Management Practices.

### *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.

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*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.

*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, "etc".

*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, by providing a mosaic of forest stand conditions by harvesting methods.

*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*

The Leflore County School district has utilized the recreational use of the standing timber by annual leasing for hunting. The hunting lease is 265 acres with an annual income for leasing of \$5750.00.

## **SOIL TYPES**

*12*

The Askew component makes up 90 percent of the map unit. Slopes are 1 to 3 percent. This component is on terraces. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 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 high. Shrink-swell potential is low. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

*4*

The Alligator component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on backswamps. The parent material consists of clayey 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 very low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon

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is about 2 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

27

The Tensas component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on terraces. The parent material consists of clayey 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 very low. Available water to a depth of 60 inches is high. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

16

The Dubbs component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on natural levees. 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 very high. Shrink-swell potential is moderate. This soil is rarely 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.

## **STRATA**

### *Strata 1*

#### Strata Description

This 277 acres strata is consists of stands #2, #3, and #4. This strata is a fully stocked approximately established bottomland hardwood forest with willow oak, nuttall oak, and sweetgum being the dominant species. This strata has a basal area of 167 and 130 trees per acre with 33 tons of pulpwood and 130 tons of sawtimber per acre. Intermittent drainage systems reside within portions of the strata. Stream side management zones will need to be marked prior to any harvesting activities to ensure water quality protection.



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**Strata Recommendations**

This 277 areas strata was divided into 3 separate management units (stands #2, #3, #4). Stand #2 is scheduled for a final harvest or seed tree harvest in 2013. An inventory will be conducted in order to determine what type of harvest will be scheduled. This will be based on many factors such as stand vigor, growth potential, and if natural regeneration of desired species is adequate for restocking the stand. Harvesting will also be considered for stands #3 and #4 if it is the best interest for improving the stand conditions.

**Activity Recommendations**

Stand #2 is scheduled for a final harvest or seed tree harvest method in 2013. If final harvested is selected then the stand will be planted with variety of bottomland hardwood species that best suited for soil conditions. Planting will be on a 12 X 12 spacing (302 seedlings per acre).

During the time frame of the plan monitoring will be conducted periodically to ensure the stands are in good vigor condition and no major transformations have occurred that could alter the goal for future harvesting. Over the course of the plan this stand will provide habitat for native wildlife species on the property.

**Harvest**

Stand #2 will be scheduled to harvested by final harvest or seed tree method in 2013. Mississippi Best Management practices will be utilized during harvesting activities.

**Regeneration**

Stand #2 will be artificially regenerated following harvest if final harvest method is conducted. Planted with a mixture of bottomland hardwood species that are best suited for soil type. Will be planted on a 12' X 12' spacing (302 trees per acre). Prior to havesting an inventroy will be conducted in ordrer to determine if a seed tree method is suitable. If a high enough stock of new natural regeneration of desirable species is found then will be restocked by natural regeneration.

*Non-Forested*

**Strata Description**

This 364 acres strata consits of stand #1. Stand #1 consists of agricultural land, gravel roads, and pond. The Leflore County School Board leases the agricultural land.

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Strata Recommendations

Leflore County School district leases 257 acres for agricultural production with an annual income of \$22,600. The U.S. Corp of Engineers leases 103 acres. The agriculture lease provides the highest and best use for this strata.

Strata Activities

During the time frame of the plan monitoring will be conducted periodically to ensure the stands are in good vigor condition and no major transformations have occurred that could alter the goal for future harvesting.



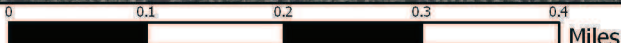


# **Section 16 T17N R1W**

Leflore County, Mississippi  
Management Plan Years 2012 to 2021  
+/- 641.45 Acres



(09/08/2011)






Plan::0045 00015 28083 04162008140730




Property

 Property (1)

Category 1: Stands


 Sawtimber (3)

Category 3: Non-Forest Stands

 Non-Forest (1)

## MFC Basemap


County Boundary

 County Boundary (1)

Quadrangle Grid

 USGS Quad (1)


PLS Townships

 PLS Townships (1)

Survey Districts

 District 2 (1)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)


Block (Census 2000)

 Block (Census 2000) (3)

Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


School Sections

 School Sections (1)

Public School Districts

 LEFLORE COUNTY SCHOOL DISTRICT (1)

US Congressional District

 US Cong Dist #2 (1)

MS Senate

 24 (1)

MS House

 34 (1)

Intermittent Streams

 Intermittent Streams (2)

Hydrologic Units (Basins)


 UPPER YAZOO RIVER (1)

Historic Forest Boundary

 Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress) (1)

MS Forest Habitat

 YAZOO BASIN DRYLANDS (1)

 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

Physiographic Region

 Delta (1)

Soil Associations

 alligator-sharkey-forestdale (1)

 dundee-forestdale-dubbs (1)

Surface Geology

 ALLUVIUM (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for  
Leflore County BOE  
16 17N 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>					
1	3	Regeneration, Artificial, Plant, Hand, Nuttall Oak	88	\$11,000.00	\$0.00
1	3	Harvest, Mechanical, Final, Machine, Misc Hardwood	88	\$3,080.00	\$237,512.00
Yearly Totals			176	\$14,080.00	\$237,512.00
<b>Grand Totals</b>			<b>176</b>	<b>\$14,080.00</b>	<b>\$237,512.00</b>

Stand Activity Schedule for  
Leflore County BOE  
16 17N 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
<b>2013</b>						
1	3	Harvest, Mechanical, Final, Machine, Misc Hardwood	88	\$3,080.00	\$237,512.00	
			Yearly Totals	88	\$3,080.00	\$237,512.00
			<b>Grand Totals</b>	<b>88</b>	<b>\$3,080.00</b>	<b>\$237,512.00</b>