



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Leflore County BOE

Prepared By:
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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-T18N-R1E

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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: 639 Latitude: -90.2 Longitude: 33.42
Section: 16 Township: 18N Range: 1E

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-T18N-R1E is +/- 639 acres of agriculture fields, bottomland hardwood sawtimber, and bald cypress tupelo gum brake. Only 145 acres of this section is forested. The timber consists of mature bottomland hardwood sawtimber. Dominate species being overcup oak, honey locust, and elm. Bald cypress and tupelo gum brake consists of sawtimber and pulpwood size timber. The section is located 1 mile north of Sidon, MS. Highway 49 east runs through the west half of this section. Property's topography is low, with areas containing water year round. Access will become an issue during wet months for management activities such as harvesting. Mississippi Best Management Practices should be followed to prevent damage.

Water Resources

An intermittent drainage ditch systems resides on the property. The ditch runs from the North West corner of the section into the central portion. The ditch drains directly into the bald cypress, tupelo gum brake. This section drains into the Bear Creek water shed, which is part of the Yazoo River watershed. Mississippi's Best Management Practices such as stream management zones will be applied to protect water sources from contamination. The eastern portion of the section contains a bald cypress, tupelo gum brake that holds water throughout the entire year.

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.

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Threatened and Endangered Species

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

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:

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- 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.

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 Eastboundary 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. The bald cypress, tupelo gum brake will provide year long habitat for shoreline birds. During winter months the brake will provide food sources and cover for migrating waterfowl species.

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 board leases 146 acres of the section for hunting opportunities with an annual income of \$1062.00. Majority of the property leased for hunting is a bald cypress, tupelo gum brake. This provides great habitat for waterfowl. Waterfowl hunting property has become a high commodity. The lease expires in December of 2014.

SOIL TYPES

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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.

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The Dubbs component makes up 95 percent of the map unit. Slopes are 1 to 3 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

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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 2e. This soil does not meet hydric criteria.

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The Dowling, MUCK component makes up 100 percent of the map unit. Slopes are 0 to 1 percent. This component is on swamps. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very 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 frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 8 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

STRATA

Strata 1

Strata Description

This 24.3 acre strata is made up of one stand (#6). This strata is approximately 67 years old bottomland hardwood forest with honey locust, overcup oak and elm being the dominant species. This strata has a basal area of 110 and 150 trees per acre with an average diameter of 18 inches.

Strata Recommendations

The stand has reached manage rotation age that the MFC has set of 65. The strata is reaching an age that yield values will begin to decline. Harvesting will be considered over the plan period during another sale.

This stand only contains 24.53 acre of harvestable timber. This could pose a problem in finding a logger that would be interested in harvesting. This stand will be added to another timber sale that occurs in the area to become more appealing to be harvested rather than seeing if the stand would be harvested as an individual sale. The market will play a vital role as well if this stand will be able to sale.

Strata Activities

During the time frame of the plan monitoring will be conducted periodically to make sure that 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 strata will provide habitat for native wildlife species on the property.

Strata 2

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Strata Description

This 120.75 acre strata consists of stand #1 is a bald cypress, tupelo gum brake. This strata was approximately established in 1949. This area holds water throughout the year. This stand contains 153 trees per acre with an average diameter of 11 inches.

Strata Recommendations

Recommendations for harvesting will be evaluated throughout the plan period. Harvesting decision could be based off the stand being overstocked or reached maturity in order to reach highest yield possible. The recreational value of the stand may need to be considered before harvesting as well. Harvesting could have negative impact for future leasing.

Harvesting will be limited because of the hydrology. During most years this strata stays wet year round. Dry years may allow for harvesting activities. Harvesting during dry conditions will prevent environmental damage such as excessive rutting.

Strata Activities

During the time frame of the plan monitoring will be conducted periodically to make sure that the stands are in good vigor condition and no major transformations have occurred that could alter the stand. This strata will provide habitat for waterfowl species during the winter months and also habitat for shoreline birds throughout the entire year. Will also provide nesting cavity trees for wood ducks in raising their young.

Strata 3 (Non-Forest)

Strata Description

This 494 acres strata consists of stands #2 and #3. Stands #2 and #3 consists of agricultural land and Highway 49, The Leflore County School board leases this land for agricultural production.

Strata Recommendations

Strata is leased out by the Leflore County School board for agriculture production. The agriculture lease provides an annual income of 73,000. The agriculture lease provides the highest and best use for this stand. There are no recommendations.

Strata Activities

During the time frame of the plan monitoring will be conducted periodically to insure no damaging activities are occurring that could impact other stands on the section. No activities are planed for the time period of the plan.



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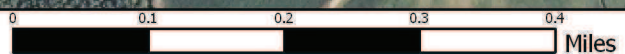
Leflore County, Mississippi

2012 to 2021

639.31 Acres



(07/27/2011)




Section16-T18N-R1E



Property


 Property (1)

Category 1: Stands

 Sawtimber (1)


 Pulpwood (1)

Category 3: Non-Forest Stands


 Non-Forest (2)

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)

County Roads

 County Roads (1)

US/State Highways

 US Highway (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 (4)

Hydrologic Units (Basins)

 UPPER YAZOO RIVER (1)


Historic Forest Boundary

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

MS Forest Habitat

 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)


MS Forest Habitat (cont)

 YAZOO BASIN DRYLANDS (1)

Physiographic Region

 Delta (1)

Soil Associations

 forestdale-alligator-sharkey (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 18N 1E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
		Yearly Totals	0	\$0.00	\$0.00
		Grand Totals	0	\$0.00	\$0.00