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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-T18N-R1W

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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: -90.3 Longitude: 33.42
Section: 16 Township: 18N 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_T18N_R1W is +/- 640.93 acres of agricultural fields, bald cypress/tupelo gum brake, and bottomland hardwood timber. Only 69.69 acres of this section is forested. Dominate species found are bald cypress, tupelo gum, willow oak, hickory, and green ash. This section is located in south Leflore County 1 miles south of Quito. State Highway 7 Runs through the west half of this section. Property's topography is low, with areas that hold water during wet months. Access will be an issue for management activities. Mississippi Best Management Practices will be followed to prevent damage.

Water Resources

A bald cypress and tuplo gum brake resides on the east boundary of the property. The section drains into the Eden Creek water shed, which drains into the Yazoo River watershed. Mississippi Best Management Practices 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.

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

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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.

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.

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.

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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, in part, by establishing and maintaining access roads and firelanes, providing openings within the forest, and leaving mast producing and den trees.

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

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

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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 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 29.5 acres strata is made up of one stand (#3). This strata was approximately established in 1950. This stand is a fully stocked bottomland forest with willow oak, green ash, and hickory being the dominant species. This strata has a basal area of 103 and 143 trees per acre with an average diameter of 17 inches. There is an estimated 18 tons of hardwood sawtimber to the acre.

Strata Recommendations

This stand contains 30 acres of harvestable timber. This could pose a problem in finding a logger that would be interested in harvesting. This stand might 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. Stand will be scheduled for a final harvest in 2014. The stand will be replanted after harvest with a variety of bottomland oak species.

Activity Recommendations

Strata 1 is scheduled for a final harvest in 2014. After harvesting the strata will be replanted with bottomland hardwood species using multiple bottomland hardwood species. Planting will done on a 10 x 10 foot spacing (436 seedling per acre).

During the time frame of the plan monitoring will be conducted at least once annually to make sure that the stand is 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.

Harvest

Stand #3 is scheduled to be final harvested in 2014. Mississippi Best Management Practices will be utilized during harvesting activities.

Regeneration

After harvesting will be planted in the winter of 2014/2015. Stand #3 will be planted on a 12 x 12 foot spacing (302 seedlings per acre) by hand planting method. The

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Mississippi Forestry Commission will conduct a planting compliance as well as a survival count in the fall of 2015.

Strata 2

Strata Description

This 39.74 acres strata consists of one stand (#2). This strata was approximately established 1967. Stand #2 is an overstocked bald cypress and tupelo gum brake with an average diameter of 11 inches. This stand holds water throughout the entire year.

Strata Recommendations

No activities have been planned for this strata throughout the course of the plan except for monitoring. Because this strata stays wet most years special consideration in allowing harvesting may take place if a dry period will allow harvesting activity without causing environmental damage. This strata provides revenue for Leflore County BOE due to the fact it is rented out for waterfowl hunting. Harvesting activity will only be conducted under extreme drought conditions and the market has improved for tupelo gum lumber.

Strata Activities

During the time frame of the plan monitoring will be conducted at least once annually 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 as well as provide habitat for aquatic animals such as fish. Will also provide nesting cavity trees for wood ducks in raising their young.

Strata 3 (Non-Forest)

Strata Description

This 571.24 acre strata consists of stand #1. Stand #1 consists of agricultural land and open water. The Leflore County School board leases the land for agricultural production.

Strata Recommendations

Stand #1 is leased out by the Leflore County School board for agriculture production. The agriculture lease provides an annual income of \$64,600. The agriculture lease provides the highest and best use for this stand. There are no recommendations for stand #1.

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

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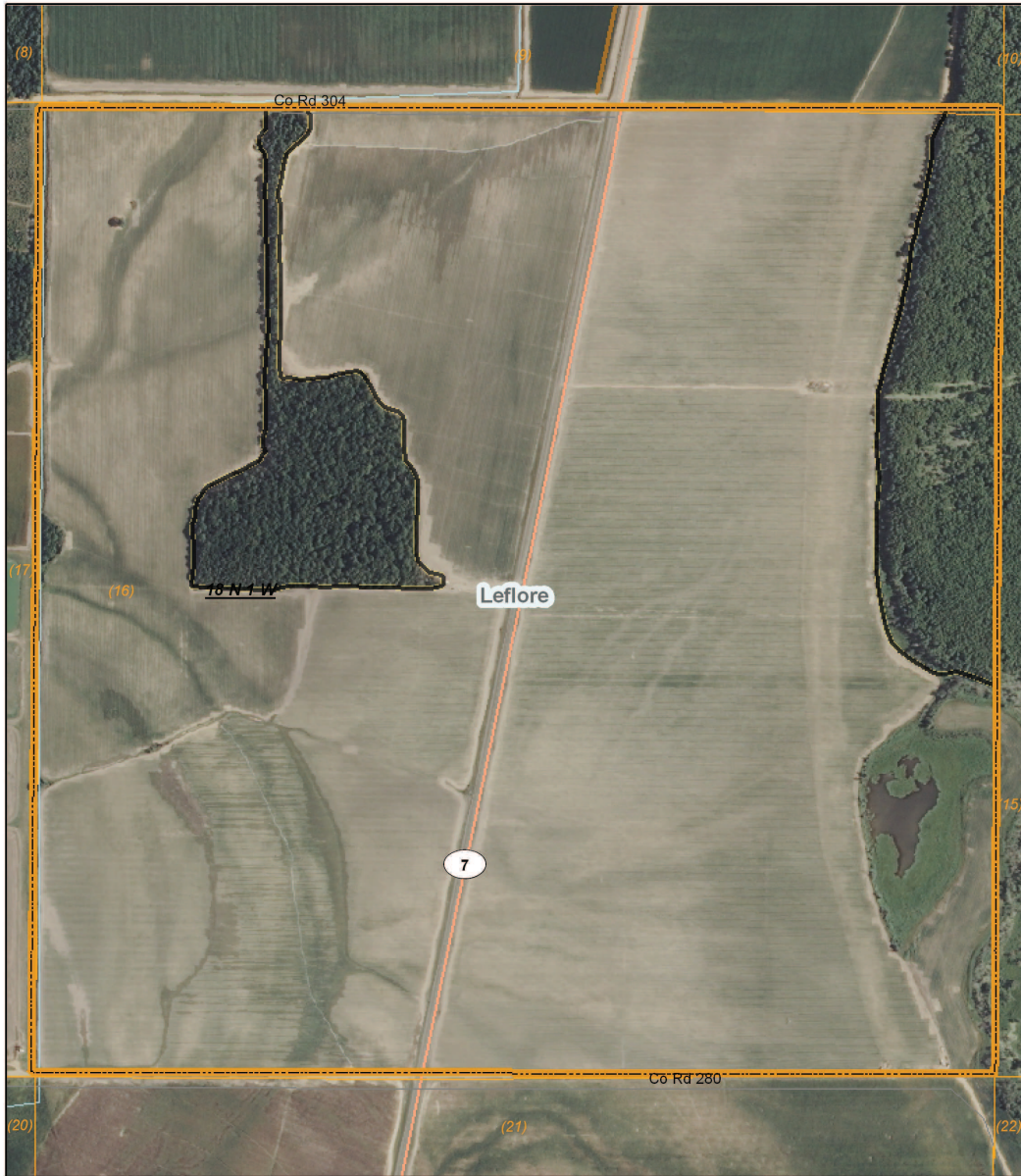
activities are planned for the time period of the plan.

Section16_T18N_R1W

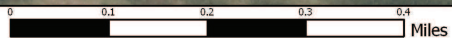


Section16 T18N R1W

Leflore County, MS
2011 to 2021
640.93 Acres



(08/01/2011)





Section16-T18N-R1W

Property

Property (1)

Category 1: Stands

Sawtimber (2)

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) (2)

Block (Census 2000)

Block (Census 2000) (4)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (2)

County Roads

County Roads (1)

US/State Highways

State 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 (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)

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 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2014					
1	3	Regeneration, Artificial, Plant, Hand, Misc Hardwood	30	\$3,750.00	\$0.00
1	3	Harvest, Mechanical, Final, Machine, Misc Hardwood	30	\$1,050.00	\$10,800.00
Yearly Totals			60	\$4,800.00	\$10,800.00
Grand Totals			60	\$4,800.00	\$10,800.00

Stand Activity Schedule for
Leflore County BOE
16 18N 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
2014						
1	3	Harvest, Mechanical, Final, Machine, Misc Hardwood	30	\$1,050.00	\$10,800.00	
			Yearly Totals	30	\$1,050.00	\$10,800.00
			Grand Totals	30	\$1,050.00	\$10,800.00