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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_T22N_R2W

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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: 638 Latitude: -90.41 Longitude: 33.77
Section: 16 Township: 22N Range: 2W

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_T22N_R2W is +/- 638.20 acres of agricultural fields and bottomland hardwood timber. Only 86 acres of this section is forested. Dominate species found are hickory, willow oak, and green ash. The section is located in north Leflore County 5 Miles west of Minter City. County Road 526 runs along the south property boundary. Property's topography is low, with areas that hold water during wet months. Access will be an issue for management activities such as harvesting. Mississippi Best Management Practices should be followed to prevent damage.

Water Resources

An intermittent drainage ditch system resides on the property. The drainage system runs from the North boundary to the South boundary of the section. This section drains into the Eden Creek water shed, which drains into the Yazoo River watershed. Mississippi's Best Management Practices such as stream management zones 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

A farm structure for equipment resides on the South boundary of the section. This cultural resource will be protected during the plan. No management activities will take place that could damage this sensitive area.

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.

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

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.

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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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STRATA

Strata 1

Strata Description

This 86 acre strata is made up one stand (#2). This strata was approximately established in 1949. This stand is a fully stocked bottomland hardwood forest with hickory, green ash, hackberry and some red oaks being the dominate species. This strata has a basal of 124 and 163 trees per acre. This strata contains 34 tons of hardwood pulpwood and 41 tons of hardwood sawtimber per acre. A chemical injection by hack and squirt method was conducted in 2010. All tree stems less than 5.6 inches in dbh were injected except for all oak species and green ash. Part of the intermittent drainage systems resides in the central portation of the stand. A stream side management zone was marked with orange paint one chain in distant on both sides of the ditch.

Strata Recommendations

This strata was high graded from previous harvesting. This resulted in leaving a large amount of undesirable species such as hickory. This strata was scheduled for a seed tree harvest in 2011. The objective of the harvest was remove all undesirable stems and leave quality cherrybark oak and green ash stems. The cherrybark oak and green ash was marked at breast height with blue paint as leave trees. The harvest was postponed, due to low bids when put up for sale. The strata will be rescheduled for a harvest in 2012. After harvesting the strata will be replanted with desirable species such as oak and green ash. The number of stems left from the seed tree harvest will not be enough to adequately stock the stand. Replanting the stand will ensure in growing desirable species and increase stocking. The remaining cherry oak will provide a food source for native wildlife species. Harvesting will allow for adequate sunlight resulting in new herbaceous vegetation providing new food sources and cover for native wildlife.

Activity Recommendations

The strata is scheduled to be harvested in 2012 by seed tree method. After harvesting the strata will be replanted with bottomland hardwood species using multiple oak species and green ash. Planting will done on a 12 x 12 foot spacing (302 seedlings per acre).

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

Harvest

Stand #2 scheduled to be harvested by seed tree method in 2012. All tree stems **not marked** with blue paint will be harvested. All trees inside of the marked SMZ with orange paint will not be harvested. Harvesting will be limited only to dry weather conditions. Mississippi Best Management Practices will be utilized during harvesting activities.

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Regeneration

Will be replanted in 2012 following harvesting. Will be planted on a 12 x 12 foot spacing (302 trees per acre) by hand planting method.

Strata 2

Strata Description

This 6.5 acre strata consists of stand #3. This strata was approximately established in 1967. This stand is a cypress slough with bald cypress being the dominant species. This stand is understocked with an average diameter of 14 inches for bald cypress. The outer edges of the slough contain water elm, persimmon, and hackberry in patches. This strata holds water throughout the entire year. This slough is a major drainage ditch for the agriculture fields across the South boundary of the section.

Strata Recommendations

This strata will be left as a Stream Side Management Zone for the time period of this plan. This strata will provide habitat for shoreline birds and aquatic species. During winter months this strata will provide food and cover for migratory waterfowl species.

Strata Activities

During the time frame of the plan monitoring will be conducted periodically to make sure that the stand is in good vigor condition and no major transformations have occurred.

Strata 3 (Non-Forest)

Strata Description

This 544 acre strata consists of stands #1 and #4. Stand #1 consists of 543 acres of agricultural land and a farm structure for equipment storage. The Leflore County School board leases this land for agricultural production. Stand #4 consists of 1 acre of open water that resides in the bald cypress slough.

Strata Recommendations

Stand #1 is leased out by the Leflore County School board for agriculture production. The agriculture lease provides an annual income of \$50,100. The agriculture lease provides the highest and best use for this stand. There are no recommendations for stand #4.

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 planned for the time period of the plan.



Section 16-T22N-R2W

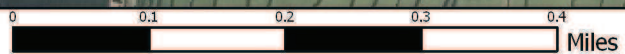
Leflore County, Mississippi

2012 to 2021

638.20 Acres




(08/02/2011)




S16-T22N-R2W




Property

 Property (1)


Category 1: Stands

 Sawtimber (2)

Category 3: Non-Forest Stands


 Non-Forest (2)

Structures


 Tractor Shed (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)

County Roads

 County Roads (2)


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

 30 (1)

Intermittent Streams

 Intermittent Streams (3)

Hydrologic Units (Basins)

 BOGUE PHALIA RIVER (1)

Historic Forest Boundary

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

MS Forest Habitat

 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

 YAZOO BASIN DRYLANDS (1)

Physiographic Region

 Delta (1)

Soil Associations

 alligator-sharkey-forestdale (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 22N 2W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	2	Harvest, Mechanical, Thin, Machine, Misc Hardwood	87	\$3,045.00	\$77,256.00
Yearly Totals			87	\$3,045.00	\$77,256.00
2013					
1	2	Regeneration, Artificial, Plant, Hand, Misc Hardwood	87	\$10,828.75	\$0.00
Yearly Totals			87	\$10,828.75	\$0.00
Grand Totals			174	\$13,873.75	\$77,256.00

Stand Activity Schedule for
Leflore County BOE
16 22N 2W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
2012						
1	2	Harvest, Mechanical, Thin, Machine, Misc Hardwood	87	\$3,045.00	\$77,256.00	
			Yearly Totals	87	\$3,045.00	\$77,256.00
			Grand Totals	87	\$3,045.00	\$77,256.00