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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Leake County BOE

Prepared By:
Howard Wayne Ornsbey
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: Section 16 Township 10 North Range 07 East

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**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Name: Leake County BOE
Mailing Address: P.O. Box 478
City, State, Zip: Carthage, MS 39051
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-267-4579
Fax Number: 601-267-5283
E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Howard Wayne Ornsbey , Service Forester
Forester Number: 01820
Organization: MS Forestry Commission
Street Address: PO Box 24
City, State, Zip: Carthage, MS 39051
Contact Numbers: Office Number: 601-267-9357
Fax Number: 601-267-9357
E-mail Address: wornsbey@mfc.state.ms.us

PROPERTY LOCATION

County: Leake Total Acres: 566 Latitude: -89.58 Longitude: 32.72
Section: 16 Township: 10N Range: 7E

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

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.

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.

Water Quality

Streamside management zones have or will be established along the stream and a protective vegetative zone maintained along the perimeter. Water diversions will be installed and maintained where needed on access roads to prevent erosion.

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

The property is located in the central part of Leake County West of Carthage along Mississippi Highway 16, Presley Road and Pilgrims Rest Road. This property is 566 acres. The major stand type is improved Loblolly Pine. There is 73 acres in improved loblolly pine reproduction, 7 acres of pine plantation, 32 acres of sawtimber, and 454 acres of this tract is open. There is 87 acres of this section that is privately owned.

Archeological or Cultural Resources

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.

A cemetery, and two church exists in the north portion of section. These sites have been buffered and are isolated withing open pasture land. No forest management activities will occur inside of these protected area's.

Water Resources

Water resources that were identified during a reconnaissance of this property, was Yellow Creek. Along with Yellow Creek, intermittent streams and drains will be managed in accordance with Mississippi's Best Management Practices.

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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 your property.

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. The following soils are identified for this property: Mantachie, and Providence.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A healthy vigorously 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.

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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.

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.

Water Quality Protection

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This can best be achieved by implementation of Best Management Practices in all aspects of the management of the property.

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.

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.

SOIL TYPES

Providence

The Providence component makes up 85 percent of the map unit. Slopes are 5 to 8 percent. Depth to a root restrictive layer, fragipan, is 18 to 38 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 low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 84.

Mantachie

The Mantachie component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on coastal plains. 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 high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. Loblolly Site Index = 100.

Providence

The Providence component makes up 85 percent of the map unit. Slopes are 2 to 5 percent. Depth to a root restrictive layer, fragipan, is 18 to 38 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 low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 84.

STRATA

Strata 1: Stands 2, 3, 4, and 8

Strata Description

Regeneration Area

Acres: 73

This area was recently harvested, site prepared and planted in fiscal year 2011. A survival check in November 2012 found 744 improved loblolly pine seedlings per acre.

Strata Recommendations

These stands will be managed to a 35 year rotation. During this time frame, management activities such as thinning to remove poor quality trees and improve growth, vegetative

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control to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

Monitor this stand annually. At this time there are no scheduled activities planned. Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property. In order to produce high quality sawtimber the stand should be managed under existing recommendations. This will be accomplished on a thirty-five-year rotation. At the end of thirty-five-years the stand will have a final harvest done on it followed by site prep and artificial regeneration to Loblolly Pine. This strata should be harvested when the adjoining area's have a final harvest.

Strata 4: Stands 5, 7, 9, and 10

Strata Description

Mixed Sawtimber

Acres: 33

This is a 30 to 60 year-old mixed pine-hardwood sawtimber strata. At present, pine basal area averages 25 square feet per acre and average merchantable heights average 50 feet. At present, the average dbh of the residual stand is 13.2 inches. This strata is made up of four small blocks on farm residential leases with difficult access. Species found includes: water oak, willow oak, sweetgum, and some pine.

Strata Recommendations

These stands will be managed to the best of our abilities due to their location's. During this time frame, management activities such as thinning to remove poor quality trees and improve growth, vegetative control to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

Monitor this stand annually. At this time there are no scheduled activities planned. Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property. In order to produce high quality sawtimber the stand should be managed under existing recommendations. This strata should be harvested when the adjoining area's have a final harvest.

Strata 5: Stand 6

Strata Description

Pine Plantation

Acres: 7

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This is a 23 year-old Loblolly pine plantation that averages 200 trees per acre, and has an average merchantable height of 40 feet. At present, the average dbh of this stand is 8.5 inches. The area is a planted field, due to its small size it is difficult to manage.

Strata Recommendations

These stands will be managed to a 35 year rotation. During this time frame, management activities such as thinning to remove poor quality trees and improve growth, vegetative control to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production.

Monitor this stand annually. At this time there are no scheduled activities planned. Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property. In order to produce high quality sawtimber the stand should be managed under existing recommendations. This will be accomplished on a thirty-five-year rotation. At the end of thirty-five-years the stand will have a final harvest done on it followed by site prep and artificial regeneration to Loblolly Pine. This strata should be harvested when the adjoining area's have a final harvest.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

The section boundary line's have been established and painted on a five year rotation.

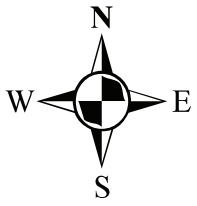
Line Recommendations

The section boundary line are to be painted with **Orange** boundary line paint. The are to be painted on a five year rotation.

Activity Recommendations

Property Activities

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

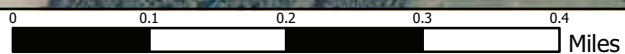


Leake County Schools

Sec. 16 Twn 10 North Rge 07 East
Management Map (Waggoner Section)
566.07 Acres



(01/12/2012)




Sec. 16 Twn 10 North Rge 07 East (Waggoner Section)




Property

 Property (1)


Category 1: Stands

 Reproduction (4)

 Sawtimber (4)

 Pulpwood (1)

Category 3: Non-Forest Stands


 Non-Forest (1)

Boundary Lines


 Property (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) (4)


Block (Census 2000)

 Block (Census 2000) (10)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (3)

County Roads

 County Roads (9)


US/State Highways

 State Highway (1)

Transmission Lines

 Transmission Lines (1)


School Sections

 School Sections (1)

Public School Districts

 LEAKE COUNTY SCHOOL DISTRICT (1)

US Congressional District

 US Cong Dist #2 (1)

MS Senate

 18 (1)

MS House

 27 (1)


Perennial Streams

 Perennial Streams (1)

Intermittent Streams

 Intermittent Streams (2)

Hydrologic Units (Basins)


 YOCKANOOKANY RIVER (1)

Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat


 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

 LOWER LOAM HILLS (1)

Physiographic Region

 North Central Hills (1)

Soil Associations

 providence-smithdale-saffell (1)

Surface Geology

 COOK MOUNTAIN (1)

 KOSCIUSKO (1)

MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Summary for
 Leake County BOE
 16 10N 7E

Filters Applied: County: Leake
 Client Class: School Trust Land
 District: East Central District
 Client: Leake County BOE
 STR: 16 10N 7E
 Activity:
 Year: 2012 Through 2021

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