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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Jefferson County Schools

Prepared By:
J. Ted Ratcliff
Miss. Forestry Comm.

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-01-04

Plan Type:
Stewardship / Stewardship

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

Property Name: 35-10N-1W

TABLE OF CONTENTS

LANDOWNER INFORMATION	3
FORESTER INFORMATION	3
INTRODUCTION	3
OBJECTIVES	3
PROPERTY DESCRIPTION	4
GENERAL PROPERTY RECOMMENDATIONS	5
SOIL TYPES	7
STANDS	7
DISCLAIMER	11
PLAN MAP	12
PLAN MAP	13
STAND ACTIVITY SCHEDULE	14

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Organization: Jefferson County Schools
Name: Jefferson County Schools
Mailing Address: P.O. Box 157
City, State, Zip: Fayette, MS 39069
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-786-3791
Fax Number:
E-mail Address:
Social Security Number (optional): 640000000

FORESTER INFORMATION

Name: J. Ted Ratcliff , Service Forester
Forester Number: 00717
Organization: Miss. Forestry Comm.
Street Address: P. O. Box 452
City, State, Zip: Meadville, MS 39653
Contact Numbers: Office Number: 601-754-9111
Fax Number: 601-384-2437
E-mail Address: ratcliff@mfc.state.ms.us

PROPERTY LOCATION

County: Jefferson Total Acres: 612 Latitude: -91.16 Longitude: 31.81
Section: 35 Township: 10N Range: 1W

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.

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.

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FOREST STEWARDSHIP MANAGEMENT PLAN**

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

This section of approximately 611 acres, with all of the area being forested except for an old oil well site, small food plots and woods roads, is located in the north west portion of the county, about twelve miles west of Fayette. Access is by Williams Road which turns into a small gravel road that the county has stopped maintaining before it cuts through the northwest corner of the section.

Access on the section is very poor because of the steep terrain. The best ridge on the section for access has a road that has a shallow pipeline r.o.w. that runs along the road, making it very difficult to use for logging purposes.

Water Resources

No perennial water resources were identified during a reconnaissance of the property. However, intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

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.

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FOREST STEWARDSHIP MANAGEMENT PLAN**

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: Memphis.

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.

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*

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FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

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.

Wildlife Mgt. Target Species

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management will focus on providing food, cover, water, and space to facilitate the target species.

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.

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FOREST STEWARDSHIP MANAGEMENT PLAN**

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

Memphis

The Memphis component makes up 72 percent of the map unit. Slopes are 17 to 40 percent. The parent material consists of loess. 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 low. This soil is not 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Natchez component makes up 23 percent of the map unit. Slopes are 15 to 50 percent. The parent material consists of loess. 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 low. Shrink-swell potential is low. This soil is not 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

STANDS

STRATA-1 (Stands 2 and 9)

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FOREST STEWARDSHIP MANAGEMENT PLAN**

Stand Description

Consist of approximately 79 acres of pine and mixed hardwood saplings that were planted in 1998. Stand development is behind because of a large amount of hardwood encroachment in the understory and main canopy. Some areas have been completely encroached by hardwood saplings and pulpwood.

Stand Recommendations

This stand will be managed as a mixed stand, with harvest leaning to natural hardwood regeneration on the lower slopes, and pine on the ridges.

Activity Recommendations

Harvest

This stand should be ready to be thinned in 2017. This will be a first thin, pay as cut sale. There are no rows so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

In areas where there are only hardwoods no cutting will be allowed.

STRATA-2 (Stand 8)

Stand Description

Consist of approximately 52 acres of pine and hardwood pulpwood that was planted in 1994. Stand development is behind because of a large amount of hardwood encroachment in the understory and main canopy. Some areas have been completely encroached by hardwood saplings and pulpwood.

Stand Recommendations

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

Harvest

This stand should be ready to be thinned in 2013 with a second thin to follow in 2021. This will be a first thin, pay as cut sale. There are no rows so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

In areas where there are only hardwoods no cutting will be allowed.

STRATA-3 (Stands 1 and 11)

Stand Description

This stand consist of about 189 acres of mixed hardwood with a few patches of pine scattered on some of the ridges. The terrain is very steep, but does have good quality hardwood sawtimber scattered over the area. The timber ranges from pulpwood to sawtimber in size.

Stand Recommendations

This stand will be managed as a mixed stand, with harvest leaning to natural hardwood regeneration on the lower slopes, and pine on the ridges.

Activity Recommendations

Harvest

This stand will be harvested with a thin in 2019. This sale will be a pay as cut due to terrain and ability to correctly determine the volumes that will be removed.

STRATA-4 (Stand 4)

Stand Description

This stand consist of about 200 acres of mixed hardwood with a few patches of pine scattered on some of the ridges. The terrain is very steep, but does have good quality hardwood sawtimber scattered over the area. The timber ranges from pulpwood to sawtimber in size.

Stand Recommendations

This stand will be managed as a hardwood stand, with harvest leaning to a natural regeneration.

Activity Recommendations

Regeneration

Mixed stand regeneration using artificial and natural practices will take place following the harvest in 2012. The ridges and upper slopes will be planted with genetically improved, containerized loblolly seedlings. Spacing will be done on a 8 foot by 10 foot spacing, yielding 544 seedlings per acre.

Hardwoods will be supplemented on the lower slopes and bottoms if natural reproduction is not sufficient.

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FOREST STEWARDSHIP MANAGEMENT PLAN**

Site Preparation

This area will be site prepared by aerial herbicide application or possibly by hand in 2012. Chemical, rates and type of application will be determined following the harvest.

Harvest

This stand will be harvested with a clear cut in 2011. Volumes to be advertised for sale will be determined with a minimum of 10 % cruise.

STRATA-5 (Stand 6)

Stand Description

This stand consist of about 51 acres of mixed hardwood with a few patches of pine scattered on some of the ridges. The terrain is very steep, but does have good quality hardwood sawtimber scattered over the area. The timber ranges from pulpwood to sawtimber in size.

Stand Recommendations

This stand will be managed as a mixed stand, with harvest leaning to natural hardwood regeneration on the lower slopes, and pine on the ridges.

Activity Recommendations

Harvest

This stand will be harvested with a thin in 2019. Volumes to be advertised for sale will be determined with a minimum of 10 % cruise.

STRATA-6 SMZ (Stands 7 and 10)

Stand Description

This stand consist of approximately 42 acres in a Streamside Management Zone. Timber is predominately hardwood ranging from sawtimber size to premerchantable. The basal area is approximately 60 square feet.

Stand Recommendations

This stand will be managed as an SMZ. Thinning promoting hardwoods will take place when adjacent stands are harvested.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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.



JEFFERSON COUNTY SCHOOLS

Williams Rd. / Pipeline problem
2012 to 2021
611.60 Acres



2-1-P-PW-14-U
Ac 11.24

11-3-H-ST-59-U
Ac 10.07

3-NA-NF
Ac 1.6

10-6-H-ST-65-U
Ac 27.79

8-2-P-PW-18-U
Ac 51.98

10 N 1 W
(35)

Jefferson

1-3-H-ST-59-U
Ac 172.65

4-4-H-ST-64-U
Ac 199.76

5-NA-NF
Ac 3.08

10 N 1 E
(37)

Boundary Lines

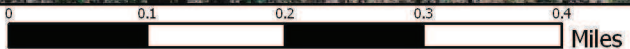
9-1-P-PW-14-U
Ac 67.79

Pipeline/woods rd.

7-6-H-ST-65-U
Ac 14.5

6-5-H-ST-62-U
Ac 51.14


(01/31/2012)



JEFFERSON COUNTY SCHOOLS




Property


 Property (1)

Stands


 Stands (9)

Category 1: Stands


 Sawtimber (6)

 Pulpwood (3)

Category 3: Non-Forest Stands


 Non-Forest (2)

Utilities (Lines)


 Gas Line (1)

MFC Basemap


County Boundary

 County Boundary (1)

Quadrangle Grid

 USGS Quad (1)


PLS Townships

 PLS Townships (2)

Survey Districts

 District 4 (1)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)


Block (Census 2000)

 Block (Census 2000) (2)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


County Roads

 County Roads (1)


School Sections

 School Sections (1)

Public School Districts

 JEFFERSON COUNTY SCHOOL DIST (1)

US Congressional District

 US Cong Dist #2 (1)

MS Senate


 36 (1)

MS House

 85 (1)

 94 (1)


Perennial Streams

 Perennial Streams (2)


Hydrologic Units (Basins)

 COLES CREEK (1)


Historic Forest Boundary

 Oak-Hickory-Magnolia-Poplar (1)


MS Forest Habitat

 DEEP LOESS HILLS AND BLUFFS (1)

Physiographic Region

 LOESS HILLS (1)

Soil Associations

 memphis-natchez-collins (1)

Surface Geology

 CATAHOULA (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for
Jefferson County Schools
35 10N 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2013					
2	4	Harvest, Mechanical, Thin, Machine, Loblolly	52	\$1,040.00	\$19,853.60
Yearly Totals			52	\$1,040.00	\$19,853.60
2017					
1	6	Harvest, Mechanical, 1st Thin, Machine, Loblolly	11	\$221.60	\$2,317.27
1	11	Harvest, Mechanical, 1st Thin, Machine, Loblolly	68	\$1,360.00	\$10,854.16
Yearly Totals			79	\$1,581.60	\$13,171.43
2019					
3	3	Harvest, Mechanical, Thin, Machine, Loblolly	173	\$6,055.00	\$92,824.88
5	8	Harvest, Mechanical, Thin, Machine, Loblolly	51	\$1,785.00	\$89,941.05
Yearly Totals			224	\$7,840.00	\$182,765.93
2021					
2	4	Harvest, Mechanical, Thin, Machine, Loblolly	52	\$1,820.00	\$29,500.12
Yearly Totals			52	\$1,820.00	\$29,500.12
Grand Totals			407	\$12,281.60	\$245,291.08