



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Perry County Schools

Prepared By:
Brad D Pulliam
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2008-04-23

Plan Type:
Stewardship / Stewardship

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

Property Name: 16-3N-9W

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**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Name: Perry County Schools
Mailing Address: P.O. Box 137
City, State, Zip: New Augusta, MS 39462
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-964-3211
Fax Number:
E-mail Address:
Social Security Number (optional): 000000000

FORESTER INFORMATION

Name: Brad D Pulliam , Forestry Technician
Forester Number: 00000
Organization: MFC
Street Address: P.O. Box 452
City, State, Zip: Richton, MS 39476
Contact Numbers: Office Number: 601-788-6006
Fax Number: 601-788-6708
E-mail Address: bpulliam@mfc.state.ms.us

PROPERTY LOCATION

County: Perry Total Acres: 648 Latitude: -88.9 Longitude: 31.22
Section: 16 Township: 3N Range: 9W

DISCLAIMER

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. We recommend that you use this plan as a guide to actively manage your forest land for its greatest potential.

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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

This section is located on Thompson Creek south of Hintonville. It consist of approximately 80% pine with the rest being abandoned gravel pits and creek bottom. Primary access is can be gained on the southwest corner for the west side of the creek and at the southeast corner for the east side of the creek. A series of roads run throughout the section for access. The east side of the creek is primarily chip-n-saw while the west side is thinned pine plantation. Both sides of the creek are well stocked and growing at this time, and also both sides are in need of a control burn to take out unwanted hardwood underbrush.

Water Resources

Perennial water resources were identified during a reconnaissance of the property. This perennial stream is named Thompson Creek and is well protected by SMZ's of 50 - 75 feet. 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

Threatened and endangered species were identified during the reconnaissance and evaluation of your property. These species include the Gopher Tortise which will be protected by the Best Management Practices Handbook guidelines.

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

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other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization. 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.

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: Bigbee-bibb and also Prentiss-rosella.

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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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 Line

It is the responsibility of the landowner to ensure that all property lines and boundary lines 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, 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. However, it needs to be understood that some forestry practices are not aesthetically pleasing to the eye and will have to be dealt with on a case by case basis.

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. All of these opportunities can be had at Lake Perry where we have all of the above listed facilities.

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.

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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.

Archeological or Cultural Resources

These areas can range from churches, old cemeteries, natural springs, Indian mounds to home sites or other area of historical significance.

No resources were identified during a reconnaissance of this property

SOIL TYPES

Bibb

The Bibb component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of sandy and loamy alluvium deposits. 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 moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. Loblolly Site Index = 100.

STRATA

Strata 1

Strata Description

Strata 1: Stands 1,6,7,8,12,13,15

Acres: 267

This strata consist of loblolly stands with some slash mixed in throughout it. These stands have been thinned are will be needing a second thin in the near future. They are well stocked at this time with most of the trees being in a chip n saw size class.

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Strata Recommendations

This strata will need a prescribed burn to control unwanted hardwood from within the stand and allow for maximum growth of the stands. Also, this stand will need a second thinning to reduce the BA back to an average of 70 and leave the trees for the final crop.

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.

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

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 2013 and be repeated on a two or three year rotation thereafter. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

Strata 2

Strata Description

Strata 2: Stand 2,11

Acres 132

This strata was first thinned in 2010 leaving a well stocked stand with an average BA of 73 and also a good crop of trees.

Strata Recommendations

This strata should be prescribed burned for the control of unwanted hardwood in 2013 and will need a second thinning in 2019. This thin will take out trees not wanted for the final crop trees.

Activity Recommendations

Harvest

2nd Thin of will need to be cruised and a desicion made to mark the sale or do an operator select thin at the time of sale.

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Fire Protection

A prescribed fire is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

Strata 3

Strata Description

Strata 3: Stands 4

Acres: 35

This stand is made up of a loblolly plantation that was hand planted and is approximately 13 years old. This stand was created due to a pine beetle infestation and a harvest of that spot.

Strata Recommendations

This stand will need a first thin 2015. It should be carried out by 5th row method and target smaller undesirable trees to be removed.

Activity Recommendations

Harvest

1st thin

5th row method

Remove small stems, crooked, forked and any disease stems to get BA to an average of 70.

Strata 4

Strata Description

Strata 4; Stands 3,9, 14

Acres 42

These stands are between the creek and an abandoned gravel pit, and are inaccessible to any type of machine without crossing Thompson Creek or several hundred yards of deep sands from the pits. There is no way to drive anything but an ATV to this strata, so it was deemed inoperable.

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Strata Recommendations

No recommendations can be made for this stand due to earlier mentioned facts of access.

Activity Recommendations

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

All lines are painted orange and are visible at this time.

Line Recommendations

Lines should be maintained on a five year rotation with the next painting for these being in 2013 and again in 2018.

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.

Section 16 Township 3 North Range 9 West



Section 16 Township 3 North Range 9 West

16-3N-9W SOUTH OF HINTONVILLE ON CREEK
2008 to 2018
640 Acres



(08/19/2008)



Plan::0046 00019 28111 04232008122803

Property
 Property

Category 1: Stands
 Chip-n-Saw
 Pulpwood
 Sub-Merchantable

Category 3: Non-Forest Stands
 Non-Forest

Boundary Lines
 Property

Utilities (Lines)
 Large Electrical

Utilities (Lines) (cont)
 Gas Line

MFC Basemap

County Boundary
 County Boundary

Quadrangle Grid
 USGS Quad

PLS Townships
 PLS Townships

Survey Districts
 District 5

Blockgroup (Census 2000)
 Blockgroup (Census 2000)

Block (Census 2000)
 Block (Census 2000)

Tract/BNA (Census 2000)
 Tract/BNA (Census 2000)

County Roads
 County Roads

Abandoned Railroads
 Abandoned Railroads

Transmission Lines
 Transmission Lines

School Sections
 School Sections

Public School Districts
 PERRY COUNTY SCHOOL DISTRICT

US Congressional District
 US Cong Dist #4

MS Senate
 45

MS House
 105

Perennial Streams
 Perennial Streams

Intermittent Streams
 Intermittent Streams

Hydrologic Units (Basins)
 LOWER LEAF RIVER

Historic Forest Boundary
 Longleaf Pine with Loblolly Pine-Slash Pine

MS Forest Habitat
 SOUTHERN LOAM HILLS-GENTLE TOPOGRAPHY

Physiographic Region
 Pine Belt

Soil Associations
 mclaurin-heidel-lucy
 bigbee-bibb-quitman
 prentiss-rosella-benndale

Surface Geology
 PASCAGOULA/HATTIESBURG

MFC Districts
 MFC Districts

MFC Areas
 MFC Areas

MS Outline
 MS Outline

Stand Activity Schedule for
Perry County Schools
16 3N 9W

| Strata | Stand | Activity | Acre | Est. Cost | Est. Revenue |
|----------------------|-------|---|------------|--------------------|---------------------|
| 2013 | | | | | |
| 1 | 1 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 132 | \$3,309.00 | \$0.00 |
| 1 | 6 | Fire Protection, Other, Burn, Hand, Fuel Reduction | 14 | \$346.75 | \$0.00 |
| 1 | 7 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 68 | \$1,703.50 | \$0.00 |
| 1 | 8 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 46 | \$1,141.00 | \$0.00 |
| 1 | 12 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 6 | \$139.25 | \$0.00 |
| 1 | 13 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 2 | \$38.50 | \$0.00 |
| 1 | 15 | Fire Protection, Other, Burn, Hand, Hazard Mitigation | 132 | \$3,300.00 | \$0.00 |
| 2 | 2 | Fire Protection, Other, Burn, Hand, Fuel Reduction | 111 | \$2,780.75 | \$0.00 |
| 2 | 11 | Fire Protection, Other, Burn, Hand, Fuel Reduction | 20 | \$500.00 | \$0.00 |
| 2 | 11 | Fire Protection, Other, Burn, Hand, Fuel Reduction | 20 | \$501.75 | \$0.00 |
| Yearly Totals | | | 550 | \$13,760.50 | \$0.00 |
| 2015 | | | | | |
| 3 | 4 | Harvest, Mechanical, Thin, Machine, Loblolly | 35 | \$1,225.00 | \$7,700.00 |
| Yearly Totals | | | 35 | \$1,225.00 | \$7,700.00 |
| 2019 | | | | | |
| 1 | 6 | Harvest, Mechanical, 2nd Thin, Machine, Loblolly | 14 | \$485.45 | \$230,935.50 |
| 2 | 2 | Harvest, Mechanical, 2nd Thin, Machine, Loblolly | 111 | \$3,885.00 | \$36,630.00 |
| 2 | 11 | Harvest, Mechanical, 2nd Thin, Machine, Loblolly | 20 | \$702.45 | \$6,623.10 |
| Yearly Totals | | | 145 | \$5,072.90 | \$274,188.60 |
| Grand Totals | | | 730 | \$20,058.40 | \$281,888.60 |