



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Kemper County BOE

Prepared By:
Matt Persons
MFC

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: Kemper 16-12-15

TABLE OF CONTENTS

LANDOWNER INFORMATION	3
FORESTER INFORMATION	3
DISCLAIMER	3
INTRODUCTION	3
OBJECTIVES	4
PROPERTY DESCRIPTION	4
GENERAL PROPERTY RECOMMENDATIONS	5
SOIL TYPES	6
STRATA	7
PLAN MAP	10
PLAN MAP	11
STRATA ACTIVITY SCHEDULE	12

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Name: Kemper County BOE
Mailing Address: P.O. Box 219 Main Ave
City, State, Zip: DeKalb, MS 39328
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-743-2657
Fax Number: 601-743-9297

E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Matt Persons , Service Forester
Forester Number: 02485
Organization: MFC
Street Address: 201 Firetower Rd.
City, State, Zip: DeKalb, MS 39328
Contact Numbers: Office Number: 601-743-5529
Fax Number:
E-mail Address: rpersons@mfc.state.ms.us

PROPERTY LOCATION

County: Kemper Total Acres: 603 Latitude: -88.77 Longitude: 32.89
Section: 16 Township: 12N Range: 15E

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT 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.

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 property is located in the northwestern part of the county off Johnson Road. Access to the section is good and access within the section is fair. Roads will need to be established to improve access. This section has a total of 603 acres of which, 108 acres are non-forest and 495 acres are forested.

Water Resources

One small creek flows through the property and 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.

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:

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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*

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

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.

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

SwD2

The Sweatman component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on uplands. The parent material consists of loamy marine deposits. 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

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

to a depth of 60 inches is high. Shrink-swell potential is moderate. 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 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

RnC2

The Ruston component makes up 95 percent of the map unit. Slopes are 5 to 8 percent. This component is on coastal plains. The parent material consists of loamy fluviomarine deposits. 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 moderate. 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 3e. This soil does not meet hydric criteria. Loblolly Site Index = 84.

Je

The Jena component makes up 90 percent of the map unit. Slopes are 0 to 2 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 moderate. Shrink-swell potential is low. This soil is occasionally 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 2w. This soil does not meet hydric criteria. Loblolly Site Index = 100.

SeF

The Smithdale component makes up 90 percent of the map unit. Slopes are 17 to 35 percent. This component is on hillslopes. The parent material consists of loamy fluviomarine deposits. 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 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 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. Loblolly Site Index = 80.

STRATA

Strata 1

Strata Description

Strata 1 contains stands 1, 3, 5, 6, and 7, which total 402 acres of pulpwood-sized, Loblolly pine plantations and natural pine stands. Stands 3 and 5 were thinned in 2011 and average 80 square feet of basal area per acre and average diameters of 8 inches. Stands 1, 6, and 7 have average heights of 45 feet and basal areas of 120 square feet per acre.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Strata Recommendations

Activity Recommendations

Harvest

Stand 6, (171 acres), is scheduled for a first thinning in 2013. This activity will target poor quality, diseased, and suppressed trees within the stand for removal. Residual basal areas should average 70 square feet per acre.

Harvest

Stands 1, 3, and 7, (126 acres), are scheduled for a first thinning in 2019. This activity will target poor quality, diseased, and suppressed trees within the stand for removal. Residual basal areas should average 70 square feet per acre.

Harvest

Stand 5, (105 acres), is scheduled for a first thinning in 2020. This activity will target poor quality, diseased, and suppressed trees within the stand for removal. Residual basal areas should average 70 square feet per acre.

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. Stands 3 and 5, (201 acres), are scheduled for a burn in 2013.

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. Stand 6, (171 acres), is scheduled for a burn in 2015.

Harvest

Add Text For Harvest, Mechanical, Thin, Machine, Loblolly

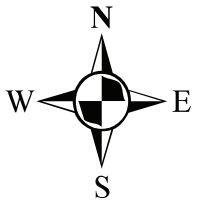
**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Strata Description

Strata 2 has only one stand, (2), which consists of 93 acres of mixed pine-hardwood sawtimber. This stand has average heights of 80 feet and basal areas that average 50 square feet per acre. This stand has a small creek that flows from north to south, through the stand and steep hills on either side of the creek. The factors of wet soil conditions and steep terrain make most of this strata inoperable. However, consideration will be given to thin parts of this strata when harvesting operations are on-going in adjoining stands.

Strata Activity Schedule
Kemper 16-12-15
County BOE

PlanYear	Strata	Activity	Acres	Revenue	Cost
2013	1	Fire Protection ,Other ,Burn , Hand	201	\$0	\$5,025
2013	1	Harvest ,Mechanical ,Thin , Machine	171	\$29,925	\$5,985
			Year Sub-total	\$29,925	\$11,010
2015	1	Fire Protection ,Other ,Burn , Hand	171	\$0	\$4,275
			Year Sub-total	\$0	\$4,275
2019	1	Harvest ,Mechanical ,Thin , Machine	126	\$44,100	\$4,410
			Year Sub-total	\$31,700	\$4,410
2020	1	Harvest ,Mechanical ,Thin , Machine	105	\$26,250	\$3,675
			Year Sub-total	\$26,250	\$3,675
		Grand Totals		\$87,875	\$23,370

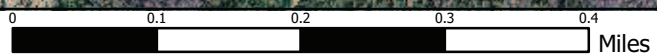


Kemper County Schools

16-12-15
2012 to 2021
603.12 Acres



(01/24/2012)



16-12-15



Property

Property (1)

Category 1: Stands

Sawtimber (1)
 Pulpwood (5)

Category 3: Non-Forest Stands

Non-Forest (2)

Management Compartment

Management (2)

Property Roads/Trails

Logging Road (12)

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 (3)

School Sections

School Sections (1)

Public School Districts

KEMPER COUNTY SCHOOL DISTRICT (1)

US Congressional District

US Cong Dist #3 (1)

MS Senate

32 (1)

MS House

42 (1)

Perennial Streams

Perennial Streams (1)

Intermittent Streams

Intermittent Streams (1)

Hydrologic Units (Basins)

SUCARNOOCHEE RIVER (1)

Historic Forest Boundary

Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat

OLD TERRACE (1)

Physiographic Region

North Central Hills (1)

Soil Associations

ora-savannah-prentiss (1)
 sweatman-smithdale-ora (1)

Surface Geology

WILCOX (1)
 NAHEOLA (1)

MFC Districts

MFC Districts (1)

MFC Dispatch Units

MFC Dispatch Units (1)

MS Outline

MS Outline (1)

Stand Activity Schedule for

16 12N 15E

Strata	Stand	Activity			Acre	Est. Cost	Est. Revenue
2013							
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction		96	\$2,400.00	\$0.00	
1	5	Fire Protection, Other, Burn, Hand, Fuel Reduction		105	\$2,625.00	\$0.00	
1	6	Harvest, Mechanical, Thin, Machine, Loblolly		171	\$5,985.00	\$29,925.00	
Yearly Totals				372	\$11,010.00	\$29,925.00	
2015							
1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction		171	\$4,275.00	\$0.00	
Yearly Totals				171	\$4,275.00	\$0.00	
2019							
1	1	Harvest, Mechanical, Thin, Machine, Loblolly		2	\$70.00	\$700.00	
1	3	Harvest, Mechanical, Thin, Machine, Loblolly		96	\$3,360.00	\$24,000.00	
1	7	Harvest, Mechanical, Thin, Machine, Loblolly		28	\$980.00	\$7,000.00	
Yearly Totals				126	\$4,410.00	\$31,700.00	
2020							
1	5	Harvest, Mechanical, Thin, Machine, Loblolly		105	\$3,675.00	\$26,250.00	
Yearly Totals				105	\$3,675.00	\$26,250.00	
Grand Totals				774	\$23,370.00	\$87,875.00	