



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 16-11-17

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**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: 528 Latitude: -88.56 Longitude: 32.8
Section: 16 Township: 11N Range: 17E

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

This property is located five miles east of Dekalb on Mississippi Highway 16. Access to the section is very good and access within the section is fair. There are 491 forested acres on this section and 37 acres in the non-forest condition, which are powerline and highway right-of-ways.

Water Resources

One small creek was identified during a reconnaissance of the property. This creek, along with any 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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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:

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*

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

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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 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

WS

The Wilcox component makes up 50 percent of the map unit. Slopes are 8 to 17 percent. This component is on uplands. The parent material consists of clayey marine deposits. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 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 high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Sweatman component makes up 37 percent of the map unit. Slopes are 5 to 17 percent. This component is on uplands. The parent material consists of

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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 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 6e. This soil does not meet hydric criteria.

STRATA

Strata 1

Strata Description

Strata 1 is composed of stands 2, 3, and 4, and cover 217 acres of pine sawtimber. These stands average 100 square feet of basal area per acre and average heights of 85 feet. The timber present in this strata is of good quality.

Activity Recommendations

Harvest

A regeneration harvest is planned for stand 2, (116 acres), in 2016. This stand can be harvested 7-9 months, out of the year.

Harvest

A regeneration harvest is planned for stands 3 and 4, (101 acres), in 2018. These stands can be harvested 7-9 months, out of the year.

Site Preparation

Site preparation spraying will be done by aerial broadcast in order to reduce herbaceous and woody competition. This activity will take place in the summer/fall of 2017, for stand 2, (116 acres), and will need to be contracted by a vendor.

Site Preparation

Site preparation spraying will be done by aerial broadcast in order to reduce herbaceous and woody competition. This activity will take place in the summer/fall of 2019, for stands 3 and 4, (101 acres), and will need to be contracted by a vendor.

Site Preparation Burn

A prescribed burn should be conducted to further prepare the site. A burn will reduce debris that may otherwise impede tree planting. The result will enable better accessibility by tree planters, improving overall uniformity and quality of the planting job. A prescribed burning plan should be developed and followed in the application of the burn. A certified prescribed burn manager should be employed to conduct the burn. The Mississippi Forestry Commission is available to conduct prescribed burning on a limited basis. This activity is scheduled for stand 2, (116 acres), in 2017.

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Regeneration

Following site preparation, stand 2, (116 acres), should be planted with genetically improved loblolly pine seedlings, in 2017. Seedlings should be planted at a rate of 691 trees per acre at a spacing of 7 feet x 9 feet. Planting should be done between December and March. Adverse weather conditions such as prolonged dry or cold periods should be taken into consideration when considering planting.

Seedling care and handling, as well as planting, will conform to the established MFC guidelines. See "What You Should Know About Planting Your Stewardship Forest" in the attachment section of this plan.

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Following site preparation, stands 3 and 4, (101 acres), should be planted with genetically improved loblolly pine seedlings, in 2019. Seedlings should be planted at a rate of 691 trees per acre at a spacing of 7 feet x 9 feet. Planting should be done between December and March. Adverse weather conditions such as prolonged dry or cold periods should be taken into consideration when considering planting.

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Regeneration

Add Text For Regeneration, Artificial, Plant, Hand, Loblolly

Strata 2

Strata Description

Strata 2 is composed of stands 1 and 6 and total 274 acres of seven year-old, Loblolly pine plantations. These stands have an average height of 12 feet and average 550 trees per acre.

Activity Recommendations

Harvest

Stand 6, (113 acres), is scheduled for a first thinning in 2019. This activity will target poor quality, diseased, and suppressed trees within the stand for removal.

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Harvest

Stand 1, (161 acres), is scheduled for a first thinning in 2020. This activity will target poor quality, diseased, and suppressed trees within the stand for removal.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

Maintenance of property boundary lines is important to prevent timber trespass. This activity will be done every five years. Maintenance will include, blazing and painting of boundary line trees and may include permanent firelanes.

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.

Property Activities

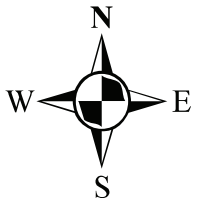
Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

Property Activities

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

Strata Activity Schedule
Kemper 16-11-17
County BOE

PlanYear	Strata	Activity	Acres	Revenue	Cost
2016	1	Harvest ,Mechanical ,Final , Machine	116	\$173,420	\$4,060
			Year Sub-total	\$173,420	\$4,060
2017	1	Regeneration ,Artificial ,Plant , Hand	116	\$0	\$12,149
2017	1	Site Preparation ,Chemical ,Broadcast , Aerial	116	\$0	\$9,860
2017	1	Site Preparation ,Other ,Burn , Hand	116	\$0	\$2,900
			Year Sub-total	\$0	\$24,909
2018	1	Harvest ,Mechanical ,Final , Machine	101	\$144,949	\$3,535
			Year Sub-total	\$144,949	\$3,535
2019	1	Site Preparation ,Other ,Burn , Hand	101	\$0	\$2,525
2019	1	Site Preparation ,Chemical ,Broadcast , Aerial	101	\$0	\$8,585
2019	1	Regeneration ,Artificial ,Plant , Hand	101	\$0	\$10,605
2019	2	Harvest ,Mechanical ,Thin , Machine	113	\$19,719	\$3,944
			Year Sub-total	\$19,719	\$25,659
2020	2	Harvest ,Mechanical ,Thin , Machine	161	\$28,175	\$5,635
			Year Sub-total	\$28,175	\$5,635
		Grand Totals		\$366,263	\$63,798

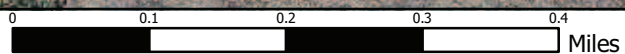


Kemper County Schools

16-11-17
2012 to 2021
528.18 Acres




(01/24/2012)





16-11-17




Property

 Property (1)

Category 1: Stands

 Sub-Merchantable (2)
 Sawtimber (3)


Category 3: Non-Forest Stands

 Non-Forest (1)

Management Compartment

 Management (2)

Fire Control

 Permanent Fire Break (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) (2)

Block (Census 2000)

 Block (Census 2000) (3)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)

US/State Highways

 State Highway (1)


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)

Intermittent Streams

 Intermittent Streams (3)

Hydrologic Units (Basins)


 SUCARNOOCHEE RIVER (1)


 NOXUBEE RIVER (1)

Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat


 LOWER CLAY HILLS-RUGGED TOPOGRAPHY (1)

 INTERIOR FLATWOODS (1)

Physiographic Region

 North Central Hills (1)


Soil Associations

 wilcox-falkner-sweatman (1)

Surface Geology

 PORTERS CREEK (1)

Recreational Facilities

 Single / Special Purpose Facility (1)

MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for

16 11N 17E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2016					
1	2	Harvest, Mechanical, Final, Machine, Loblolly	116	\$4,060.00	\$173,420.00
Yearly Totals			116	\$4,060.00	\$173,420.00
2017					
1	2	Regeneration, Artificial, Plant, Hand, Loblolly	116	\$12,148.50	\$0.00
1	2	Site Preparation, Chemical, Broadcast, Aerial, Combination	116	\$9,860.00	\$0.00
1	2	Site Preparation, Other, Burn, Hand, Debris	116	\$2,900.00	\$0.00
Yearly Totals			348	\$24,908.50	\$0.00
2018					
1	3	Harvest, Mechanical, Final, Machine, Loblolly	83	\$2,905.00	\$119,105.00
1	4	Harvest, Mechanical, Final, Machine, Loblolly	18	\$630.35	\$25,844.35
Yearly Totals			101	\$3,535.35	\$144,949.35
2019					
1	3	Site Preparation, Other, Burn, Hand, Debris	83	\$2,075.00	\$0.00
1	3	Site Preparation, Chemical, Broadcast, Aerial, Combination	83	\$7,055.00	\$0.00
1	3	Regeneration, Artificial, Plant, Hand, Loblolly	83	\$8,715.00	\$0.00
1	4	Regeneration, Artificial, Plant, Hand, Loblolly	18	\$1,890.00	\$0.00
1	4	Site Preparation, Other, Burn, Hand, Debris	18	\$450.00	\$0.00
1	4	Site Preparation, Chemical, Broadcast, Aerial, Combination	18	\$1,530.00	\$0.00
2	6	Harvest, Mechanical, Thin, Machine, Loblolly	113	\$3,943.80	\$19,719.00
Yearly Totals			416	\$25,658.80	\$19,719.00
2020					

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2	1	Harvest, Mechanical, Thin, Machine, Loblolly	161	\$5,635.00	\$28,175.00
Yearly Totals			161	\$5,635.00	\$28,175.00
Grand Totals			1,141	\$63,797.65	\$366,263.35