



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 16-11-18

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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: 636 Latitude: -88.46 Longitude: 32.8
Section: 16 Township: 11N Range: 18E

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 near the Scooba Community on Mississippi Highway 45. Access to the section is good and access within the section is poor. This section has a total of 636 acres, of which, 585 acres are forested and 51 acres are classified as non-forest.

Water Resources

A creek is found running through the property. All creeks, 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:

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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

The Mississippi Forestry Commission will ensure that all property lines and boundaries designating areas to receive forestry work are clearly identified and visible to all contractors. Boundary lines will be painted on a five year rotation.

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.

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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.

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

WO

The Wilcox component makes up 90 percent of the map unit. Slopes are 1 to 3 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 3e. This soil does not meet hydric criteria. Loblolly Site Index = 81. Slash Site Index = 85.

FrB2

The Freest component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on coastal plains. The parent material consists of loamy over clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is

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moderately 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 24 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Slash Site Index = 85.

Ho

The Houlka 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 clayey 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 very low. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria.

StA

The Stough component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 14 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90. Slash Site Index = 86.

STRATA

Strata 1

Strata Description

Strata 1 consists of stands 1, 2, 7, and 8 totaling 329 acres of Hardwood Sawtimber. Basal areas average 90 square feet per acre, with average heights of 80 feet.

Activity Recommendations

Harvest

Stand 1, (100 acres), is scheduled for a final harvest in 2020.

Harvest

Stands 2 and 8, (98 acres), are scheduled for a final harvest in 2017.

Site Preparation

Stand 1 will need to be sheared, raked, and bedded in 2021. This will improve planter access and provide the seedlings with adequate soil conditions to achieve better growth.

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Site Preparation

Stand 1 will need to be sheared, raked, and bedded in 2018. This will improve planter access and provide the seedlings with adequate soil conditions to achieve better growth.

Regeneration

Stand 1 will need to be planted at a rate of 691 Loblolly Pine seedlings per acre during the planting season, (December-March) of 2021. A compliance check will be done by MFC crews to insure proper planting and correct number of trees.

Property Activities

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

Regeneration

Stand 2 will need to be planted at a rate of 691 Loblolly Pine seedlings per acre during the planting season, (December-March) of 2018. A compliance check will be done by MFC crews to insure proper planting and correct number of trees.

Property Activities

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

Strata 3

Strata Description

Strata 3 consists of stands 4 and 5 which are three year-old, submerchantable, Loblolly pine stands totaling 125 acres. These stand average 500 trees per acre.

Strata Recommendations

No activities are planned for this strata during the life of the plan.

Strata 4

Strata Description

Strata 4 consists of stands 3 and 6, which are submerchantable, mixed pine-hardwood stands. These stands are 12 years-old, have an average height of 20 feet, and average 450 trees per acre.

Strata Recommendations

Activity Recommendations

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Harvest

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

Harvest

This strata, (134 acres), will be evaluated for a thinning in 2017. This stand should be thinned to promote diameter growth. These stands should be evaluated four years after the initial thin and should be harvested and this strata be regenerated in Loblolly pine, as soon as adequate diameter growth has occurred.

OTHER PLAN ACTIVITIES

Boundary Lines

Maintenance of property boundary lines is important to prevent timber trespass. This activity includes blazing and marking of boundary line trees and may require permanent firelanes.

Line Description

Boundary lines will be blazed and painted every five years.

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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Property Activities

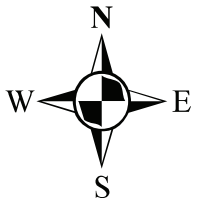
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Property Activities

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 16-11-18
County BOE

PlanYear	Strata	Activity	Acres	Revenue	Cost
2014	1	Property Activities ,Maintain ,Paint , Hand	0	\$0	\$0
			Year Sub-total	\$0	\$0
2017	1	Harvest ,Mechanical ,Final , Machine	101	\$133,724	\$3,535
2017	4	Harvest ,Mechanical ,Thin , Machine	128	\$22,400	\$4,480
			Year Sub-total	\$156,124	\$8,015
2018	1	Regeneration ,Artificial ,Plant , Hand	101	\$0	\$10,605
2018	1	Site Preparation ,Mechanical ,Shear/Rake , Machine	101	\$0	\$22,725
			Year Sub-total	\$0	\$33,330
2020	1	Harvest ,Mechanical ,Final , Machine	165	\$216,150	\$5,775
2020	1	Property Activities ,Maintain ,Paint , Hand	0	\$0	\$0
			Year Sub-total	\$216,150	\$5,775
2021	1	Regeneration ,Artificial ,Plant , Hand	165	\$0	\$17,325
2021	1	Site Preparation ,Mechanical ,Shear/Rake , Machine	165	\$0	\$37,125
			Year Sub-total	\$0	\$54,450
		Grand Totals		\$372,274	\$101,570

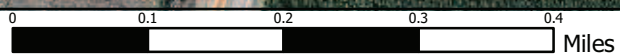


Kemper County Schools

16-11-18
2012 to 2021
636.01 Acres




(01/24/2012)




16-11-18



Property


 Property (1)

Category 1: Stands


 Sawtimber (4)

 Sub-Merchantable (4)

Category 3: Non-Forest Stands


 Non-Forest (1)

Hydrology (Lines)


 Primary Stream (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) (6)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


US/State Highways

 US Highway (1)

Active Railroads

 Active Railroads (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)

Perennial Streams

 Perennial Streams (1)

Intermittent Streams

 Intermittent Streams (1)


Hydrologic Units (Basins)

 NOXUBEE RIVER (1)

Historic Forest Boundary

 Shortleaf Pine-Loblolly Pine-Post/Blackjack Oak (1)


MS Forest Habitat

 INTERIOR FLATWOODS (1)

Physiographic Region

 North Central Hills (1)

Soil Associations

 quitman-stough-kirkville (2)

 urbo-mathiston-marietta (1)

Surface Geology

 PORTERS CREEK (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for

16 11N 18E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2017					
1	2	Harvest, Mechanical, Final, Machine, Loblolly	33	\$1,155.00	\$43,692.00
1	8	Harvest, Mechanical, Final, Machine, Loblolly	68	\$2,380.00	\$90,032.00
4	3	Harvest, Mechanical, Thin, Machine, Loblolly	78	\$2,730.00	\$13,650.00
4	6	Harvest, Mechanical, Thin, Machine, Loblolly	50	\$1,750.00	\$8,750.00
Yearly Totals			229	\$8,015.00	\$156,124.00
2018					
1	2	Regeneration, Artificial, Plant, Hand, Loblolly	33	\$3,465.00	\$0.00
1	2	Site Preparation, Mechanical, Shear/Rake, Machine, Brush	33	\$7,425.00	\$0.00
1	8	Regeneration, Artificial, Plant, Hand, Loblolly	68	\$7,140.00	\$0.00
1	8	Site Preparation, Mechanical, Shear/Rake, Machine, Brush	68	\$15,300.00	\$0.00
Yearly Totals			202	\$33,330.00	\$0.00
2020					
1	1	Harvest, Mechanical, Final, Machine, Loblolly	165	\$5,775.00	\$216,150.00
Yearly Totals			165	\$5,775.00	\$216,150.00
2021					
1	1	Regeneration, Artificial, Plant, Hand, Loblolly	165	\$17,325.00	\$0.00
1	1	Site Preparation, Mechanical, Shear/Rake, Machine, Brush	165	\$37,125.00	\$0.00
Yearly Totals			330	\$54,450.00	\$0.00
Grand Totals			926	\$101,570.00	\$372,274.00