



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 16-10-18

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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: 642 Latitude: -88.46 Longitude: 32.72
Section: 16 Township: 10N 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 in the eastern part of the county, one-half mile east of Mississippi Highway 45. Access to the section is fair and access within the section is good. This section has a total of 643 acres which is all forested.

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.

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*

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.

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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

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

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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.

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.

STRATA

Strata 1

Strata Description

Strata 1 includes stand 3 which is 202 acres of eight year-old, submerchantable Loblolly Pine, which averages 500 trees per acre.

Activity Recommendations

Harvest

Strata 1 will be evaluated for a first thinning in 2020. The stand will need to be thinned to an average basal area of 80 square feet per acre. Due to the wet nature of the soils, this practice should be done in the summer/fall.

Strata 2

Strata Description

Strata 2 consists of stands 1 and 4 and total 214 acres. These stands are twelve year-old, Loblolly pine, averaging 500 trees and 110 square feet of basal area per acre.

Activity Recommendations

Harvest

This strata is scheduled for a first thinning in 2014. This treatment will target poor quality, diseased, and suppressed trees for removal. The stands should be thinned to a residual basal area of 80 square feet per acre. Due to the wet nature of the soils, this treatment should be done in the summer/fall.

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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. These stands, (1 and 4), are scheduled for burning in 2016.

Strata 3

Strata Description

Strata 3 contains 198 acres and includes stand 2, which is a regeneration area, planted in December 2011. Strata 3 averages 600 trees per acre.

Activity Recommendations

Site Preparation

This strata was recently site prepared, (bedded), in the fall of 2011.

Harvest

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

Regeneration

This strata was recently planted in December, 2011 with Loblolly Pine. This tract averages 600 trees per acre.

Strata 4

Strata Description

This strata contains stand 5 which is mixed pine-hardwood pulpwood and totals 29 acres. At present, the stand has an average basal area of 60 square feet per acre and an average diameter of 6 inches.

Strata Recommendations

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

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OTHER PLAN ACTIVITIES

Boundary Lines

Maintenance of property boundary lines is important to prevent timber trespass. This activity will include blazing and marking of boundary line trees, and possibly permanent firelanes.

Line Recommendations

Property boundary lines will be maintained every 5 years.

Activity Recommendations

Property Activities

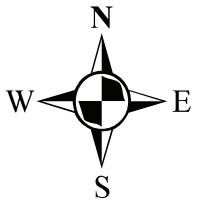
Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

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 16-10-18
County BOE**

PlanYear	Strata	Activity	Acres	Revenue	Cost
2010	3	Harvest ,Mechanical ,Final , Machine	198	\$588,685	\$3,954
2010	3	Regeneration ,Artificial ,Plant , Hand	198	\$0	\$17,794
2010	3	Site Preparation ,Chemical ,Broadcast , Aerial	198	\$0	\$19,771
			Year Sub-total	\$588,685	\$41,519
2014	2	Harvest ,Mechanical ,Thin , Machine	206	\$30,900	\$7,210
			Year Sub-total	\$30,900	\$7,210
2016	2	Fire Protection ,Other ,Burn , Hand	210	\$0	\$5,250
			Year Sub-total	\$0	\$5,250
2020	1	Harvest ,Mechanical ,Thin , Machine	202	\$35,350	\$7,070
			Year Sub-total	\$35,350	\$7,070
		Grand Totals		\$654,935	\$61,049

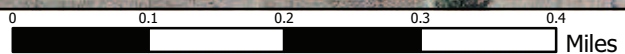


Kemper County Schools

16-10-18
2012 to 2021
642.35 Acres



(01/24/2012)






16-10-18




Property

 Property (1)


Category 1: Stands

-  Pulpwood (3)
-  Clear Cut (1)
-  Sub-Merchantable (1)

Property Roads/Trails

 Logging Road (1)

Boundary Lines


 Property (1)

Management Compartment


 Management (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) (1)

Block (Census 2000)

 Block (Census 2000) (2)

Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (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

 INTERIOR FLATWOODS (1)


Physiographic Region

 North Central Hills (1)

Soil Associations

 wilcox-falkner-sweatman (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 10N 18E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2010					
3	2	Harvest, Mechanical, Final, Machine, Loblolly	198	\$3,954.20	\$588,685.48
3	2	Regeneration, Artificial, Plant, Hand, Loblolly	198	\$17,793.90	\$0.00
3	2	Site Preparation, Chemical, Broadcast, Aerial, Woody	198	\$19,771.00	\$0.00
Yearly Totals			593	\$41,519.10	\$588,685.48
2014					
2	1	Harvest, Mechanical, Thin, Machine, Loblolly	161	\$5,635.00	\$24,150.00
2	4	Harvest, Mechanical, Thin, Machine, Loblolly	45	\$1,575.00	\$6,750.00
Yearly Totals			206	\$7,210.00	\$30,900.00
2016					
2	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	161	\$4,025.00	\$0.00
2	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	49	\$1,225.00	\$0.00
Yearly Totals			210	\$5,250.00	\$0.00
2020					
1	3	Harvest, Mechanical, Thin, Machine, Loblolly	202	\$7,070.00	\$35,350.00
Yearly Totals			202	\$7,070.00	\$35,350.00
Grand Totals			1,211	\$61,049.10	\$654,935.48