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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 16-09-15

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	8
OTHER PLAN ACTIVITIES	8
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: 642 Latitude: -88.77 Longitude: 32.63
Section: 16 Township: 9N Range: 15E

DISCLAIMER

This information was derived from a small sampling of 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.

Water Quality

Streamside management zones have or will be established along the stream and a protective vegetative zone maintained along the perimeter. Water diversions will be installed and maintained where needed on access roads to prevent erosion.

PROPERTY DESCRIPTION

General Property Information

This property is located in the southwestern part of the county off Mississippi Highway 493. Access to the section is good and access within the section is fair. This section has 352 acres classified as non-forest and 290 acres of forestland. This entire section is currently leased by the North American Coal Company and mining will start during the life of this plan. Therefore, all merchantable timber on this section will be liquidated in 2012 and 2013.

Water Resources

Chickasawhay Creek runs through the western side of the section.

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 health 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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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.

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

W

Generated brief soil descriptions are created for major soil components. The Water area is a miscellaneous area.

SeE2

The Smithdale component makes up 90 percent of the map unit. Slopes are 12 to 17 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 6e. This soil does not meet hydric criteria. Loblolly Site Index = 80.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 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.

Mc

The Mantachie 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 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 high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. Loblolly Site Index = 98.

MV

The Kinston component makes up 35 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium. 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 high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria. The Mantachie component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. 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 high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria.

SaB

The Savannah 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 alluvium deposits. Depth to a root restrictive layer, fragipan, is 16 to 38 inches. The natural drainage class is moderately 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. A seasonal zone of water saturation is at 24 inches during January, February, March. Organic matter content in the

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 81.

STRATA

Strata 2

Strata Description

Strata 2 contains only stand 1, (93 acres), which is mixed pine-hardwood sawtimber. The timber is of good quality and averages 85 feet in height and has average basal areas of 100 square feet per acre. This stand will be liquidated in 2012 in preparation of mining operations.

Activity Recommendations

Harvest

Stand 1, (93 acres), is scheduled for a liquidation harvest in 2012.

Strata 3

Strata Description

Strata 3 contains stand 3, (108 acres), which is a four year-old Loblolly pine plantation. Due to the young age, no activities are planned for this strata during the life of the plan.

Strata 4

Strata Description

Strata 4 contains stands 6 and 9, which cover 89 acres of hardwood pulpwood. The timber is of poor quality and will be liquidated in 2013 in preparation of mining operations.

Activity Recommendations

Harvest

A liquidation harvest is planned for Strata 4, (89 acres), in 2013. This sale is in preparation for mining operations.

OTHER PLAN ACTIVITIES

Boundary Lines

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

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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

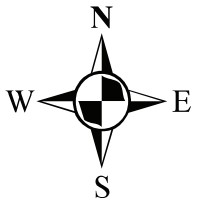
Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

Property Activities

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

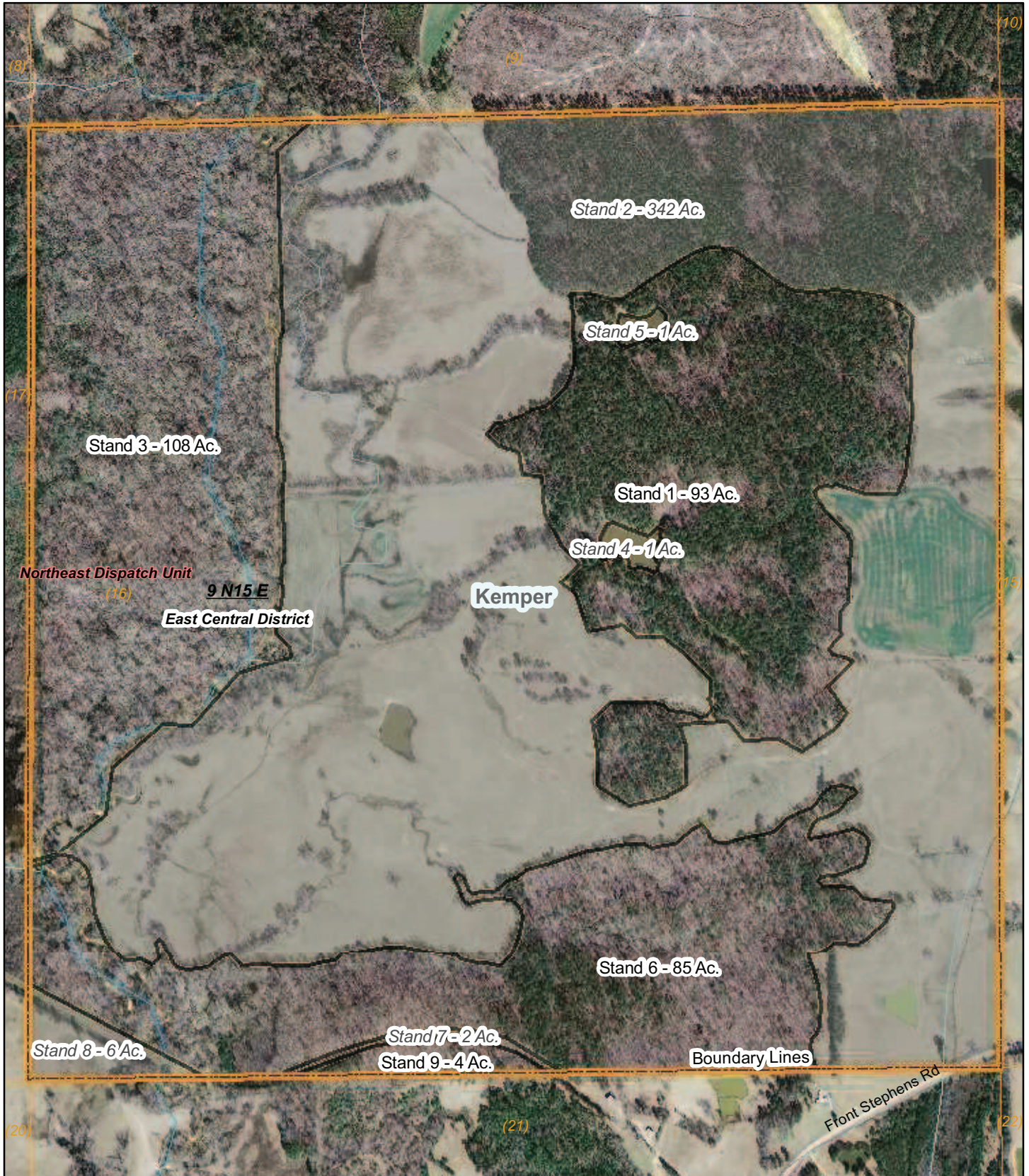
Strata Activity Schedule
Kemper 16-09-15
County BOE

PlanYear	Strata	Activity	Acres	Revenue	Cost
2012	2	Harvest ,Mechanical ,Liquidation , Machine	93	\$99,733	\$2,325
			Year Sub-total	\$99,733	\$2,325
2013	4	Harvest ,Mechanical ,Liquidation , Machine	89	\$101,816	\$3,115
			Year Sub-total	\$101,752	\$3,115
		Grand Totals		\$201,485	\$5,440

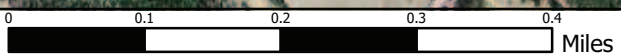


Kemper County Schools

16-9-15
2012 to 2021
641.78 Acres




(01/24/2012)






16-9-15



Property

-  Property (1)

Category 1: Stands

-  Sawtimber (1)
-  Sub-Merchantable (1)
-  Pulpwood (2)

Category 3: Non-Forest Stands


-  Non-Forest (5)

Management Compartment


-  Management (1)

MFC Basemap

County Boundary

-  County Boundary (1)

Quadrangle Grid

-  USGS Quad (2)


PLS Townships

-  PLS Townships (1)

Survey Districts

-  District 2 (1)


Blockgroup (Census 2000)

-  Blockgroup (Census 2000) (1)

Block (Census 2000)

-  Block (Census 2000) (4)

Tract/BNA (Census 2000)

-  Tract/BNA (Census 2000) (1)

County Roads

-  County Roads (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

-  43 (1)


Perennial Streams

-  Perennial Streams (1)

Intermittent Streams

-  Intermittent Streams (3)


Hydrologic Units (Basins)

-  CHUNKY RIVER-OKATIBBEE CREEK (1)

Historic Forest Boundary

-  Shortleaf/Longleaf Pine-Loblolly Pine-Upland Hardwood (1)



MS Forest Habitat

-  LOWER LOAM HILLS (1)

Physiographic Region

-  North Central Hills (1)

Soil Associations

-  mooreville-kinston-mantachie (1)
-  sweatman-smithdale-ora (1)

Surface Geology

-  WILCOX (1)

MFC Districts

-  MFC Districts (1)

MFC Dispatch Units

-  MFC Dispatch Units (1)

MS Outline

-  MS Outline (1)

Stand Activity Schedule for

16 9N 15E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
2	1	Harvest, Mechanical, Liquidation, Machine, Loblolly	93	\$2,325.00	\$99,733.20
Yearly Totals			93	\$2,325.00	\$99,733.20
2013					
4	6	Harvest, Mechanical, Liquidation, Machine, Loblolly	85	\$2,975.00	\$97,240.00
4	9	Harvest, Mechanical, Liquidation, Machine, Loblolly	4	\$140.00	\$4,512.00
Yearly Totals			89	\$3,115.00	\$101,752.00
Grand Totals			182	\$5,440.00	\$201,485.20