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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: 2-3\_13\_10\_15 Lieu Land**

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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: 76    Latitude: -88.72    Longitude: 32.72  
Section: 13    Township: 10N    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.

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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 tract of land being 76 acres of Lieu Land, is located on Mt. Nebo Reed Road, in the west central part of the county. All but one acre of this tract is forested. Access to this tract, which is poor, is through the adjoining landowner, in the southeast corner.

*Water Resources*

One small pond is located on the property. This pond and all 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 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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*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.

## **SOIL TYPES**

*SwB2*

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.

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*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.

## **STRATA**

### *Strata 1*

#### Strata Description

Strata 1 has only one stand, (2), which is pine chip n'saw in size and totals 46 acres. Current basal areas average 100 square feet per acre with average heights of 65 feet and average diameters of 10 inches.

#### Activity Recommendations

##### Harvest

Stand 2 is scheduled for a second thinning in 2013. Poorly formed, diseased, and suppressed trees will be targeted during this activity. Residual basal areas should average 80 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. Stand 2, (46 acres), is scheduled for a burn in 2012.

### *Strata 2*

#### Strata Description

Strata 2 has only one stand, (3), which is an eleven acre, pine sawtimber stand. This stand has average heights of 80 feet and average diameters of 14 inches. At present, basal areas for this stand average 100 square feet per acre.

#### Activity Recommendations

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Harvest

Stand 3, (11 acres), is scheduled for a thinning in 2013. Poorly formed, diseased, and suppressed trees will be targeted during this activity. Residual basal areas should average 80 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. Stand 3, (11 acres), is scheduled for a burn in 2012.

*Strata 3*

Strata Description

Strata 3 has only one stand, (4), which is an eighteen acre, pulpwood-sized, Loblolly pine plantation. At present, this stand averages 55 feet in height, 140 square feet of basal area per acre, and average diameters of 9 inches.

Activity Recommendations

Harvest

Strata 3, (18 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 80 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. Strata 3, (18 acres), is scheduled for a burn in 2012.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*



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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.

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**Strata Activity Schedule**  
**2-3\_13\_10\_15 Lieu Land**  
**County BOE**

PlanYear	Strata	Activity	Acres	Revenue	Cost
2012	1	Fire Protection ,Other ,Burn , Hand	46	\$0	\$1,380
2012	2	Fire Protection ,Other ,Burn , Hand	11	\$0	\$330
2012	3	Fire Protection ,Other ,Burn , Hand	18	\$0	\$540
			Year Sub-total	\$0	\$2,250
2013	1	Harvest ,Mechanical ,Thin , Machine	46	\$18,577	\$1,610
2013	2	Harvest ,Mechanical ,Thin , Machine	11	\$4,442	\$385
2013	3	Harvest ,Mechanical ,Thin , Machine	18	\$7,269	\$630
			Year Sub-total	\$30,288	\$2,625
		Grand Totals		\$30,288	\$4,875

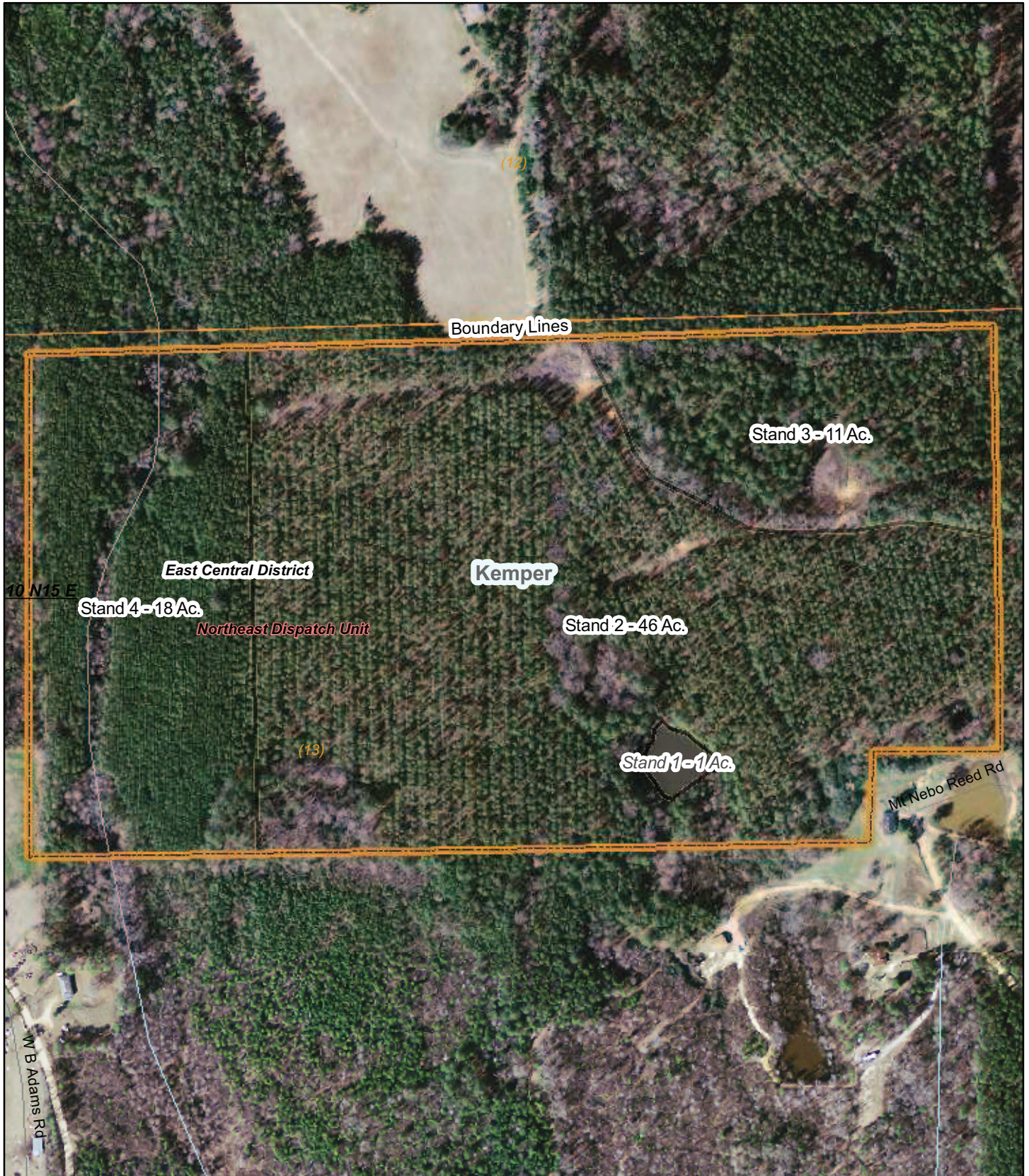


# Kemper County Schools

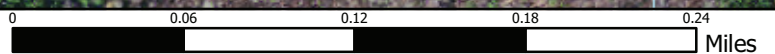
2&3-13-10-15

2012 to 2021

75.71 Acres



(01/24/2012)




# 2&3-13-10-15




## Property

 Property (1)


## Category 1: Stands

 Chip-n-Saw (1)

 Sawtimber (1)

 Pulpwood (1)


## Category 3: Non-Forest Stands

 Non-Forest (1)

## Boundary Lines


 Property (1)

## Management Compartment

 Management (2)

## 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) (1)


### Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (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 (1)


### Hydrologic Units (Basins)

 SUCARNOOCHEE RIVER (1)

### Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)


### MS Forest Habitat

 LOWER LOAM HILLS (1)

### Physiographic Region

 North Central Hills (1)

### Soil Associations

 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  
Kemper County BOE  
13 10N 15E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>					
1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	46	\$1,380.00	\$0.00
2	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	11	\$330.00	\$0.00
3	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	18	\$540.00	\$0.00
Yearly Totals			75	\$2,250.00	\$0.00
<b>2013</b>					
1	2	Harvest, Mechanical, Thin, Machine, Loblolly	46	\$1,610.00	\$18,576.64
2	3	Harvest, Mechanical, Thin, Machine, Loblolly	11	\$385.00	\$4,442.24
3	4	Harvest, Mechanical, Thin, Machine, Loblolly	18	\$630.00	\$7,269.12
Yearly Totals			75	\$2,625.00	\$30,288.00
<b>Grand Totals</b>			<b>150</b>	<b>\$4,875.00</b>	<b>\$30,288.00</b>