



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 16-10-16**

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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: 645    Latitude: -88.67    Longitude: 32.72  
Section: 16    Township: 10N    Range: 16E

**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 property is located five miles south of Dekalb on Mississippi Highway 39. Access to and within the section is good. This section has a total of 645 acres, of which 579 are forested and 66 acres are non-forested.

*Water Resources*

One small creek was 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**

*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

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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.

*RnC2*

The Ruston component makes up 95 percent of the map unit. Slopes are 5 to 8 percent. This component is on coastal plains. 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 moderate. 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 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 84.

*SaC2*

The Savannah component makes up 90 percent of the map unit. Slopes are 5 to 8 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 surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 81.

*SeF*

The Smithdale component makes up 90 percent of the map unit. Slopes are 17 to 35 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 7e. This soil does not meet hydric criteria. Loblolly Site Index = 80.

*Kn*

Kinston Component 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 occasionally 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. Loblolly Site Index = 100.

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**STRATA**

*Strata 1 - Stands 1 and 11 (243 Acres)*

Strata Description

Strata 1 consists of stands 1 and 11, which are pine sawtimber stands that have a average basal area of 100 square feet per acre and an average merchantable height of 60 feet. This strata is a total of 243 acres.

Strata Recommendations

Both stand 1 and 11, are scheduled to be prescribed burned in 2012. Stand 1 will be thinned in 2014, while stand 11 will be thinned in 2016. Both thinnings will concentrate on removing poor quality, diseased, and over-topped trees within the stand. Average leave basal area for each thinning will average 80 square feet per acre.

Activity Recommendations

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. Stands 1 and 11 should be prescribed burned in 2012.

Stand 1 - Harvest 2016

Stand 1 will be thinned to an average basal area of 80 square feet per acre in 2016. This thinning will target poor quality, diseased, and suppressed trees within the stand.

Harvest

Strata 11 is scheduled for a first thinning in 2014. This activity will target poor quality, diseased, and suppressed trees within the stand for removal. Residual basal areas should average 70 square feet per acre.

*Strata 2*

Strata Description

Strata 2 is a three year-old, submerchantable pine stand, (stand 2), which is 96 acres and averages 450 trees per acre.



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Strata Recommendations

Stand 2 has two small (< 1 acre), spots of Kudzu that will be treated in 2012, 2013, and 2014. After these three treatments, the sites will be assessed for control and new recommendations will be made.

Activity Recommendations

Invasive Species Control

A series of herbicide applications is recommended to treat and control the kudzu found on this site. Kudzu control is difficult and requires both a commitment of time and financial resources. A broadcast application of a prescribed herbicide is recommended with follow up broadcast or spot treatments. Spot treatment applications must be continued until the kudzu is controlled or eliminated. Control may take two years or more. The herbicide should conform to the manufacturer recommended rates and specifications. Contact a herbicide representative for specific recommendations.

*Strata 3*

Strata Description

Strata 3 is made up of stand 6, which is a 21 acre Loblolly pine stand that is chip n' saw-sized. The average height of the stand is 65 feet and basal areas average 100 square feet.

Strata Recommendations

Activity Recommendations

Harvest

Strata 3 will need to be thinned to an average basal area of 80 square feet per acre in 2015. This treatment will target poor quality, diseased, and suppressed trees within the stand.

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 is scheduled for burning in 2018.

*Strata 4*

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Strata Description

Strata 4 consists of stand 3, which is a streamside management zone and is primarily hardwood pulpwood. This strata is 23 acres.

Strata Recommendations

Activity Recommendations

Invasive Species Control

A series of herbicide applications is recommended to treat and control the kudzu found on this site. Kudzu control is difficult and requires both a commitment of time and financial resources. A broadcast application of a prescribed herbicide is recommended with follow up broadcast or spot treatments. Spot treatment applications must be continued until the kudzu is controlled or eliminated. Control may take two years or more. The herbicide should conform to the manufacturer recommended rates and specifications. Contact a herbicide representative for specific recommendations. One small area along a powerline right-of-way will need to be chemically treated in 2013 and 2014. After these treatments, the site will be inspected for control and new recommendations will be made.

Invasive Species Control

A series of herbicide applications is recommended to treat and control the kudzu found on this site. Kudzu control is difficult and requires both a commitment of time and financial resources. A broadcast application of a prescribed herbicide is recommended with follow up broadcast or spot treatments. Spot treatment applications must be continued until the kudzu is controlled or eliminated. Control may take two years or more. The herbicide should conform to the manufacturer recommended rates and specifications. Contact a herbicide representative for specific recommendations.

*Strata 5*

Strata Description

Strata 5 consists of stands 5, 7, and 9. These stands total 180 acres and consists primarily of pine pulpwood, with an average height of 40 feet.

Strata Recommendations

Activity Recommendations

Harvest

This strata is scheduled for a first thinning in 2015. This thin will target poor quality, diseased, and suppressed trees within the stand. Basal areas should average 80 square feet per acre after the thinning.

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

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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. This strata is scheduled for burning in 2018.

**Fire Protection**

A prescribed burn should be carried out on this property in the late fall or early winter of 20?? and be repeated on a two or three year rotation thereafter. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

*Strata 6*

**Strata Description**

Strata 6 consists of stands 8 and 10 and total 16 acres. These stands are considered inoperable due to wet conditions (stand 8), and located within the highway and powerline right-of-ways, (stand 10). Therefore, no activities are planned for this strata.

**Strata Recommendations**

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

**Line Description**

It is important to maintain all property lines to help prevent timber trespass and to identify each property. Maintenance of the property boundary lines will be done every 5 years.

**Line Recommendations**

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

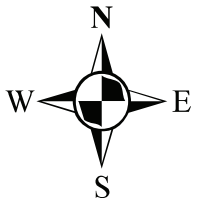
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Property Activities

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 16-10-16**  
**County BOE**

PlanYear	Strata	Activity	Acres	Revenue	Cost
2012	1	Fire Protection ,Other ,Burn , Hand	243	\$0	\$7,301
			Year Sub-total	\$0	\$7,301
2013	2	Invasive Species Control ,Chemical ,Broadcast , Hand	1	\$0	\$150
2013	4	Invasive Species Control ,Chemical ,Broadcast , Hand	1	\$0	\$150
			Year Sub-total	\$0	\$300
2014	1	Harvest ,Mechanical ,Thin , Machine	77	\$33,141	\$2,695
2014	4	Invasive Species Control ,Chemical ,Broadcast , Hand	1	\$0	\$150
			Year Sub-total	\$33,141	\$2,845
2015	3	Harvest ,Mechanical ,Thin , Machine	21	\$15,102	\$749
2015	5	Harvest ,Mechanical ,Thin , Machine	180	\$69,529	\$6,308
			Year Sub-total	\$80,625	\$7,057
2016	1	Harvest ,Mechanical ,Thin , Machine	166	\$71,446	\$5,810
			Year Sub-total	\$71,446	\$5,810
2018	3	Fire Protection ,Other ,Burn , Hand	21	\$0	\$535
2018	5	Fire Protection ,Other ,Burn , Hand	19	\$0	\$475
2018	5	Fire Protection ,Other ,Burn , Hand	134	\$0	\$3,350
			Year Sub-total	\$0	\$4,360
		Grand Totals		\$185,213	\$27,673

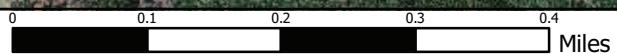


# Kemper County Schools

16-10-16  
2012 to 2021  
644.82 Acres



(01/24/2012)



16-10-16



Property

- Property (1)

Category 1: Stands

- Sawtimber (5)
- Sub-Merchantable (1)
- Pulpwood (3)
- Chip-n-Saw (1)

Category 3: Non-Forest Stands

- Non-Forest (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) (2)

Block (Census 2000)

- Block (Census 2000) (4)

Tract/BNA (Census 2000)

- Tract/BNA (Census 2000) (2)

County Roads

- County Roads (4)

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)

Perennial Streams

- Perennial Streams (1)

Intermittent Streams

- Intermittent Streams (2)

Hydrologic Units (Basins)

- SUCARNOOCHEE RIVER (1)

Historic Forest Boundary

- Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat

- LOWER LOAM HILLS (1)
- LOWER CLAY HILLS-RUGGED TOPOGRAPHY (1)

Physiographic Region

- North Central Hills (1)

Soil Associations

- smithdale-lucy-ruston (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 10N 16E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>					
1	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	166	\$4,980.00	\$0.00
1	11	Fire Protection, Other, Burn, Hand, Fuel Reduction	77	\$2,320.50	\$0.00
Yearly Totals			243	\$7,300.50	\$0.00
<b>2013</b>					
2	2	Invasive Species Control, Chemical, Broadcast, Hand, Kudzu	1	\$150.00	\$0.00
4	3	Invasive Species Control, Chemical, Broadcast, Hand, Kudzu	1	\$150.00	\$0.00
Yearly Totals			2	\$300.00	\$0.00
<b>2014</b>					
1	11	Harvest, Mechanical, Thin, Machine, Loblolly	77	\$2,695.00	\$33,140.80
4	3	Invasive Species Control, Chemical, Broadcast, Hand, Kudzu	1	\$150.00	\$0.00
Yearly Totals			78	\$2,845.00	\$33,140.80
<b>2015</b>					
3	6	Harvest, Mechanical, Thin, Machine, Loblolly	21	\$749.35	\$15,101.76
5	5	Harvest, Mechanical, Thin, Machine, Loblolly	27	\$960.05	\$10,582.49
5	7	Harvest, Mechanical, Thin, Machine, Loblolly	19	\$665.00	\$3,325.00
5	9	Harvest, Mechanical, Thin, Machine, Loblolly	134	\$4,682.65	\$51,616.18
Yearly Totals			202	\$7,057.05	\$80,625.43
<b>2016</b>					
1	1	Harvest, Mechanical, Thin, Machine, Loblolly	166	\$5,810.00	\$71,446.40
Yearly Totals			166	\$5,810.00	\$71,446.40
<b>2018</b>					



Strata	stand	Activity	Acre	Est. Cost	Est. Revenue	
3	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	21	\$535.25	\$0.00	
5	7	Fire Protection, Other, Burn, Hand, Hazard Mitigation	19	\$475.00	\$0.00	
5	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	134	\$3,350.00	\$0.00	
			<b>Yearly Totals</b>	<b>174</b>	<b>\$4,360.25</b>	<b>\$0.00</b>
			<b>Grand Totals</b>	<b>865</b>	<b>\$27,672.80</b>	<b>\$185,212.63</b>