



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 16-12-14

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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: 634 Latitude: -88.87 Longitude: 32.89
Section: 16 Township: 12N Range: 14E

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 in the northwestern part of the county on Mississippi Highway 21. Access to the section is good and access within the section is fair. This section has a total of 634 acres, of which 254 acres are forested and 380 acres are non-forest.

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.

Wildlife Mgt. Target Species

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management will focus on providing food, cover, water, and space to facilitate the target species.

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.

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SOIL TYPES

W

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

OrB2

The Ora 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 fluviomarine deposits. Depth to a root restrictive layer, fragipan, is 18 to 42 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 30 inches during February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

SeD2

The Smithdale component makes up 90 percent of the map unit. Slopes are 8 to 12 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 4e. This soil does not meet hydric criteria. Loblolly Site Index = 86. Longleaf Site Index = 69. Slash Site Index = 85.

SwF2

The Sweatman component makes up 90 percent of the map unit. Slopes are 12 to 30 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 7e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

Kn

The Kinston 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 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

Strata Description

Strata 1 includes stands 6 and 7 and totals 108 acres of primarily mixed pine and hardwood sawtimber. At present these stands average 70 square feet of basal area per acre and have average diameters of 10 inches.

Activity Recommendations

Site Preparation

Add Text For Site Preparation, Chemical, Broadcast, Hand, Woody

Harvest

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

Site Preparation

Add Text For Site Preparation, Other, Burn, Hand, Debris

Regeneration

Add Text For Regeneration, Artificial, Plant, Hand, Loblolly

Harvest

A regeneration harvest is planned for Strata 1, (108 acres), in 2014.

Site Preparation

This strata will need to be aerially sprayed to control hardwood competition prior to the site preparation burn. This work will be contracted by a vendor and completed by October 1, 2015.

Site Preparation

This tract will need to be burned to improve planter access and remove logging debris. The burn will take place 4-6 weeks after the site preparation spray.

Regeneration

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

Strata 2

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Strata Description

Strata 2 is a 92 acre mixed pine-hardwood sawtimber stand (stand 2), with an average basal area of 110 square feet per acre. At present, this stand has average heights of 80 feet and average diameters of 14 inches.

Strata Recommendations

Activity Recommendations

Harvest

A regeneration harvest is scheduled for this strata in 2015.

Site Preparation

This tract will need to be aerially sprayed to control competing hardwoods. This work will be contracted by a vendor and carried out during the growing season prior to October 1, 2015.

Site Preparation

This tract will need to be burned to improve planter access and remove logging debris. The burn will take place 4-6 weeks after the site preparation spray.

Regeneration

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

Strata 3

Strata Description

Strata 3 consists of stands 2, 4, 5, and 8 totaling 52 acres. These stands are mixed pine-hardwood sawtimber stands that have average basal areas of 90 square feet per acre and an average height of 80 feet. These stands are grouped together due to their small acreage and also being located in or adjacent to open fields.

Strata Recommendations

Activity Recommendations

Harvest

A regeneration harvest is planned for Strata 3, (52 acres), in 2019.

Aerial Application of Herbicide

During the summer prior to planting, site preparation in the form of an aerial application of a herbicide should be applied to the tract to control competing

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vegetation and prepare the site for planting. The herbicide should conform to the manufacturer recommended rates and specifications. A herbicide representative should be contacted to write a rate and application method recommendation. See "What You Should Know About Aerial Herbicide Applications" in the attachment section of this plan.

Site Preparation

This tract will need to be burned to improve planter access and remove logging debris. The burn will take place 4-6 weeks after the site preparation spray.

Regeneration

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

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

Maintenance of property boundary lines will be conducted every five years, this includes blazing and marking of boundary line trees, and may include permanent firelanes.

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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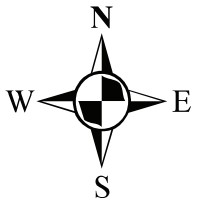
Property Activities

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 16-12-14
County BOE

PlanYear	Strata	Activity	Acres	Revenue	Cost
2014	1	Harvest ,Mechanical ,Final , Machine	108	\$144,720	\$3,780
			Year Sub-total	\$132,540	\$3,780
2015	1	Regeneration ,Artificial ,Plant , Hand	108	\$0	\$9,720
2015	1	Site Preparation ,Other ,Burn , Hand	66	\$0	\$1,650
2015	1	Site Preparation ,Chemical ,Broadcast , Hand	66	\$0	\$5,610
2015	1	Site Preparation ,Chemical ,Broadcast , Machine	42	\$0	\$3,360
2015	1	Site Preparation ,Other ,Burn , Hand	42	\$0	\$1,050
2015	2	Harvest ,Mechanical ,Final , Machine	92	\$46,000	\$3,220
			Year Sub-total	\$46,000	\$24,820
2016	2	Site Preparation ,Other ,Burn , Hand	92	\$0	\$2,300
2016	2	Regeneration ,Artificial ,Plant , Hand	92	\$0	\$9,660
2016	2	Site Preparation ,Chemical ,Broadcast , Machine	92	\$0	\$7,820
			Year Sub-total	\$0	\$19,780
2019	3	Harvest ,Mechanical ,Final , Machine	52	\$47,165	\$1,814
			Year Sub-total	\$47,165	\$1,814
2020	3	Site Preparation ,Chemical ,Broadcast , Aerial	51	\$0	\$4,375
2020	3	Regeneration ,Artificial ,Plant , Hand	52	\$0	\$5,442
2020	3	Site Preparation ,Other ,Burn , Hand	52	\$0	\$1,296

PlanYear	Strata	Activity	Acres	Revenue	Cost
			Year Sub-total	\$0	\$11,113
		Grand Totals		\$225,705	\$61,307

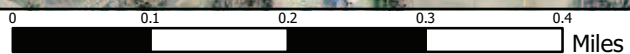


Kemper County Schools

16-12-14
2012 to 2021
634.16 Acres




(01/24/2012)




16-12-14




Property

 Property (1)

Category 1: Stands


 Sawtimber (7)

Category 3: Non-Forest Stands

 Non-Forest (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 (5)

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

 43 (1)

Intermittent Streams

 Intermittent Streams (3)

Hydrologic Units (Basins)

 YOCKANOOKANY RIVER (1)

Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat

 OLD TERRACE (1)

Physiographic Region

 North Central Hills (1)

Soil Associations

 ora-savannah-prentiss (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 12N 14E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2014					
1	6	Harvest, Mechanical, Final, Machine, Loblolly	66	\$2,310.00	\$88,440.00
1	7	Harvest, Mechanical, Final, Machine, Loblolly	42	\$1,470.00	\$44,100.00
Yearly Totals			108	\$3,780.00	\$132,540.00
2015					
1	6	Site Preparation, Other, Burn, Hand, Debris	66	\$1,650.00	\$0.00
1	6	Regeneration, Artificial, Plant, Hand, Loblolly	66	\$5,940.00	\$0.00
1	6	Site Preparation, Chemical, Broadcast, Hand, Woody	66	\$5,610.00	\$0.00
1	7	Site Preparation, Other, Burn, Hand, Cut-Over	42	\$1,050.00	\$0.00
1	7	Regeneration, Artificial, Plant, Hand, Loblolly	42	\$3,990.00	\$0.00
1	7	Site Preparation, Chemical, Broadcast, Machine, Woody	42	\$3,360.00	\$0.00
2	1	Harvest, Mechanical, Final, Machine, Loblolly	92	\$3,220.00	\$46,000.00
Yearly Totals			416	\$24,820.00	\$46,000.00
2016					
2	1	Regeneration, Artificial, Plant, Hand, Loblolly	92	\$9,660.00	\$0.00
2	1	Site Preparation, Other, Burn, Hand, Cut-Over	92	\$2,300.00	\$0.00
2	1	Site Preparation, Chemical, Broadcast, Machine, Combination	92	\$7,820.00	\$0.00
Yearly Totals			276	\$19,780.00	\$0.00
2019					
3	2	Harvest, Mechanical, Final, Machine, Loblolly	12	\$420.70	\$10,938.20
3	4	Harvest, Mechanical, Final, Machine, Loblolly	16	\$560.00	\$14,560.00

Strata	stand	Activity	Acre	Est. Cost	Est. Revenue
3	5	Harvest, Mechanical, Final, Machine, Loblolly	17	\$604.45	\$15,715.70
3	8	Harvest, Mechanical, Final, Machine, Loblolly	7	\$228.90	\$5,951.40
Yearly Totals			52	\$1,814.05	\$47,165.30
2020					
3	2	Site Preparation, Chemical, Broadcast, Aerial, Combination	12	\$1,021.70	\$0.00
3	2	Site Preparation, Other, Burn, Hand, Cut-Over	12	\$300.50	\$0.00
3	2	Regeneration, Artificial, Plant, Hand, Loblolly	12	\$1,262.10	\$0.00
3	4	Site Preparation, Other, Burn, Hand, Cut-Over	16	\$400.00	\$0.00
3	4	Regeneration, Artificial, Plant, Hand, Loblolly	16	\$1,680.00	\$0.00
3	4	Site Preparation, Chemical, Broadcast, Aerial, Combination	16	\$1,352.35	\$0.00
3	5	Site Preparation, Chemical, Broadcast, Aerial, Combination	17	\$1,445.00	\$0.00
3	5	Site Preparation, Other, Burn, Hand, Cut-Over	17	\$431.75	\$0.00
3	5	Regeneration, Artificial, Plant, Hand, Loblolly	17	\$1,813.35	\$0.00
3	8	Site Preparation, Other, Burn, Hand, Cut-Over	7	\$163.50	\$0.00
3	8	Regeneration, Artificial, Plant, Hand, Loblolly	7	\$686.70	\$0.00
3	8	Site Preparation, Chemical, Broadcast, Aerial, Combination	7	\$555.90	\$0.00
Yearly Totals			155	\$11,112.85	\$0.00
Grand Totals			1,007	\$61,306.90	\$225,705.30