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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Webster County BOE

Prepared By:
Russell L Swords
MS Forestry Commission

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-15

Plan Type:
Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

Property Name: Cadaretta S16 T21N R8E

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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LANDOWNER INFORMATION

Name:	Webster County BOE	
Mailing Address:	95 Clark Ave.	
City, State, Zip:	Eupora, MS 39744	
Country:	United States of America	
Contact Numbers:	Home Number:	
	Office Number:	662-258-5921
	Fax Number:	
E-mail Address:		
Social Security Number (optional):		

FORESTER INFORMATION

Name:	Russell L Swords , Service Forester	
Forester Number:	00571	
Organization:	MS Forestry Commission	
Street Address:	PO Box 368	
City, State, Zip:	Walthall, MS 39771	
Contact Numbers:	Office Number:	662-258-6661
	Fax Number:	
E-mail Address:	rswords@mfc.state.ms.us	

PROPERTY LOCATION

County:	Webster	Total Acres:	641	Latitude:	-89.46	Longitude:	33.69
Section:	16	Township:	21N	Range:	8E		

DISCLAIMER

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.

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 phisically 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.

OBJECTIVES

Fire Protection

The goal is to protect the resource from wildfires, by establishing and maintaining firebreaks around the property; annually inspect possible signs of insect infestations and disease; and prohibit grazing until terminal bud is beyond reach of livestock.

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 section is known as the "Cadaretta" section and is located on Dixon Rd. The majority of this section is in loblolly pine. Cadaretta has approximately 583 forested acres of various size pine timber.

Water Resources

One significant creek was identified during a reconnaissance of the property. Intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

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.

Archeological or Cultural Resources

Archeological or Cultural Resources:

These areas can range from Churches, old cemetaries, or Indian Mounds to old home sites or other areas of historical significance.

No Archeological or Cultural resources were identified during a reconnaissance of the property. However if archeological or cultural resources are discovered at anytime on the property special management measures will be applied immediatly in order to preserve these sensitive areas.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A health vigorously growing stand is the best defense to an attack form 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

Boundary lines will be maintained by the Mississippi Forestry Commission on a 5 year rotation. All lines will be marked in blue paint.

SOIL TYPES

Oa

The Oaklimeter 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 silty alluvium deposits. Depth to a root restrictive layer is greater than 60 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 very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, November, December. 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 = 90.

TaC2

The Tippah component makes up 100 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately 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 26 inches during January, February, March, April, December. 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 = 78.

Ae

The Ariel 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 silty alluvium 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 occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, April. 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 = 95.

SWE

The Sweatman component makes up 61 percent of the map unit. Slopes are 12 to 35 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. The Providence component makes up 35 percent of the map unit. Slopes are 12 to 15 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 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 18 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

STRATA

Strata 1-Chip-n-saw-stands 2,3,6-284 acres

Strata Description

Pine Sawtimber

This is a 21 year old pine sawtimber stand that averages 82 square feet of basal area and has an average merchantable height of 37 feet.

Stand Recommendations

The MFC recommends this stand be managed till age 35 then regenerated with loblolly seedlings.

Activity Recommendations

Fire Protection

A prescribed fire is recommended for this stand in order to reduce fuel loading and the potential for wildfire. A prescribed burn will be conducted in 2012.

Harvest

This stand will be 2nd thinned to a average basal area of 78 feet in 2015.

Fire Protection

A prescribed fire is recommended for this stand in order to reduce fuel loading and the potential for wildfire. A prescribed burn will be conducted in 2018.

Strata 4-pulpwood-stands 4,5,18-131 acres

Strata Description

Pine Plantation

This is a 15 year old loblolly pine plantation that averages 454 trees per acre and has an average merchantable height of 28 feet. At present the average dbh of this stand is 6.2 inches.

Stand Recommendations

The MFC recommends this stand be managed till age 35 then regenerated with loblolly seedlings.

Activity Recommendations

Harvest

This stand will be 1st thinned to an average basal area of 78 feet in 2014.

Fire Protection

A prescribed fire is recommended for this stand in order to reduce fuel loading and the potential for wildfire. A prescribed burn will be conducted in 2017.

Harvest

This stand will be 2nd thinned to a average basal area of 78 feet in 2020.

Strata 5-submerchantable-stands 9,10,19-133 acres

Strata Description

Hardwood Sub-merchantable

This stand is a 5 year old submerchantable hardwood stand that averages 800 trees per acre and total height measures 15 feet and is designated as an smz.

Strata Recommendations
No recommendations are made for this stand.

Activity Recommendations

Strata 6-submerchantable-stands 7,8,15,16,17,20,21-26 acres
Strata Description
Pine Sub-merchantable

This stand is a 10 year old submerchantable loblolly pine stand that averages 550 trees per acre and total height measures 18 feet.

Stand Recommendations
The MFC recommends this stand be managed till age 35 then regenerated with loblolly seedlings.

Activity Recommendations
Harvest
This stand will be 1st thinned to an average basal area of 78 feet in 2017.

Fire Protection
A prescribed fire is recommended for this stand in order to reduce fuel loading and the potential for wildfire. A prescribed burn will be conducted in 2020.

OTHER PLAN ACTIVITIES

Boundary Lines
Line Description
The lines consist of four miles of painted property boundaries.

Line Recommendations
The property boundaries will be maintained on a 5 year rotation and painted with orange paint.

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. These lines are to be painted in 2012 and 2017.

Fire Control

Line Description

The lines consist of four miles of pushed firelanes.

Line Recommendations

The property boundaries will be maintained on a 5 year rotation and be pushed with a dozer.

Activity Recommendations

Fire Protection

A firebreak should be constructed to completely surround the tract and constructed according to Mississippi's Best Management Practices Handbook Guidelines. It will be seeded and fertilized according to recommended rates to prevent erosion if needed in 2012 and 2017.

Property Roads/Trails

Line Description

The lines consist of 1 mile of access roads.

Line Recommendations

The access roads will be maintained on a yearly basis so that access to timber stands can be maintained.

Activity Recommendations

Roads

These roads will be bush-hogged and pushed by dozer annually.

Cadaretta

S16 T21N R8E
2012 to 2021
641.22 Acres

(01/30/2012)

0 0.1 0.2 0.3 0.4 Miles

Legend Map

Property
- Property

Category 1: Stands
- Clear Cut
- Non-Stocked
- Reproduction
- Sub-Merchantable
- Pulpwood
- Chip-n-Saw
- Sawtimber
- Poles

Category 3: Non-Forest Stands
- Non-Forest

Restricted Sites
- Archeology
- Cemetery
- Red-Cockaded Woodpecker
- Gopher Tortoise
- Picture Bogg Plant

Forest Health (Points)
- Cogan Grass
- Kudzu
- Japanese Climbing Fern
- Chinese Tallow
- Privet
- Southern Pine Beetle
- Sirex Wasp
- IPPS

Hydrology (Points)
- Concrete Dam
- Beaver Dam
- Earthen Dam
- Permanent
- Temporary
- Wooden
- Other
- Culvert
- Pond

Wildlife (Points)
- Food Plot
- Water Hole
- Feeder

Boundary Corners
- Property
- Section
- Quarter Section
- Areas

Structures
- Barn
- Tractor Shed
- Out Building
- Single-Family

Structures (cont)
- Multi-Family
- Camp House
- Club House
- Office Building
- Manufacturing
- Warehouse
- Chicken House
- Horse Stall
- Milking Parlor
- Hog Pen
- Blind
- Stand
- Hospital
- Nursing Home
- Dr. Clinic
- State Facility
- Office
- Work Center
- Materials Depot
- Prison
- School
- Church
- Mosque
- Synagogue
- Other

Property Roads/Trails
- Drive Ways
- Access Road
- Logging Road
- Skid Trail
- Farm Road
- Hiking Trail
- Horseback Riding Trail

Boundary Lines
- Archeology
- Cemetery
- Drilling Sites
- Education
- Forest Health
- Invasive Species
- Management Compartment
- Military Area
- Natural Area
- Property
- Recreation
- Rights of Way
- SMZ
- Special Use
- Stand
- Surface Mining
- Threatened/Endangered Species
- Visual Buffer

Fire Control
- Temporary Line
- Permanent Fire Break

Wildlife (Lines)
- Green Strip

Restricted Area
- SMZ
- Archeology,
- Cemetery
- Visual Buffer
- Special Use
- Natural Area
- Education
- Recreation
- Military Area
- Large Utility
- Red-Cockaded Woodpecker
- Gopher Tortoise
- Picture Bogg Plant
- Coal
- Gravel
- Dirt
- Water
- Oil
- Natural Gas

Transportation (Lines)
- City Streets
- County Roads
- 3 Digit Highway
- Interstate Highway
- US Highway
- State Highway
- Natchez Trace Parkway
- Runways/Airports
- Active RR
- Abandoned RR

Hydrology (Lines)
- Mississippi River
- Major River
- Primary Stream
- Intermittent Stream
- Canal
- Ditch
- Earthen Dam
- Concrete Dam

Utilities (Lines)
- Large Electrical
- Local Utility
- Large Pipeline
- Small Pipeline
- Gas Line
- Utility Line
- Water Line

Stand Activity Schedule for
Webster County BOE
16 21N 8E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	139	$2,780.00	$0.00
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	124	$2,476.40	$0.00
1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	21	$415.80	$0.00
5	19	Fire Protection, Other, Burn, Hand, Fuel Reduction	14	$273.40	$0.00
		Yearly Totals	297	$5,945.60	$0.00
2014					
4	4	Harvest, Mechanical, 1st Thin, Machine, Loblolly	42	$378.00	$8,820.00
4	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	70	$625.95	$14,605.50
4	18	Harvest, Mechanical, 1st Thin, Machine, Loblolly	19	$168.84	$3,939.60
		Yearly Totals	130	$1,172.79	$27,365.10
2015					
1	2	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	139	$2,085.00	$43,090.00
1	3	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	124	$1,857.30	$38,384.20
1	6	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	139	$2,085.00	$43,090.00
5	19	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	14	$210.00	$3,500.00
		Yearly Totals	416	$6,237.30	$128,064.20
2017					
4	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	42	$846.80	$0.00
4	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	70	$1,391.00	$0.00
4	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	19	$375.20	$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
6	7	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	$36.00	$840.00
6	8	Harvest, Mechanical, 1st Thin, Machine, Loblolly	5	$45.18	$1,054.20
6	15	Harvest, Mechanical, 1st Thin, Machine, Loblolly	2	$20.43	$476.70
6	16	Harvest, Mechanical, 1st Thin, Machine, Loblolly	2	$20.43	$476.70
6	17	Harvest, Mechanical, 1st Thin, Machine, Loblolly	2	$15.93	$371.70
6	20	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	$31.68	$739.20
6	21	Harvest, Mechanical, 1st Thin, Machine, Loblolly	3	$23.04	$537.60
		Yearly Totals	152	$2,805.69	$4,496.10
2018					
1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	139	$2,780.00	$0.00
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	124	$2,476.40	$0.00
1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	21	$415.80	$0.00
5	19	Fire Protection, Other, Burn, Hand, Fuel Reduction	14	$273.40	$0.00
		Yearly Totals	297	$5,945.60	$0.00
2020					
4	4	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	42	$630.00	$13,020.00
4	5	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	70	$1,043.25	$21,560.50
4	18	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	19	$281.40	$5,815.60
6	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	9	$180.80	$0.00
6	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	5	$100.40	$0.00
6	15	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	$45.40	$0.00
6	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	$45.40	$0.00
6	17	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	$35.40	$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
6	20	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	$70.40	$0.00
6	21	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	$51.20	$0.00
		Yearly Totals	157	$2,483.65	$40,396.10
		Grand Totals	**1,450**	**$24,590.63**	**$200,321.50**