Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Wayne County BOE

Prepared By:
Eddie Nowell
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-01-11

Plan Type:
Stewardship / Stewardship

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

Property Name: Section 16-T6N-R8W

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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 7
OTHER PLAN ACTIVITIES 10
PLAN MAP 12
PLAN MAP 13
STRATA ACTIVITY SCHEDULE 14

LANDOWNER INFORMATION

Name:	Wayne County BOE	
Mailing Address:	810 Chickasawhay Street	
City, State, Zip:	Waynesboro, MS 39367	
Country:	United States of America	
Contact Numbers:	Home Number:	
	Office Number:	601-735-4871
	Fax Number:	
E-mail Address:	hintonj@wayne.k12.ms.us	
Social Security Number (optional):		646001212

FORESTER INFORMATION

Name:	Eddie Nowell , Service Forester	
Forester Number:	01594	
Organization:	MFC	
Street Address:	1063	
	Buckatunna-Mt. Zion Road	
City, State, Zip:	Waynesboro, MS 39367	
Contact Numbers:	Office Number:	601-735-2810
	Fax Number:	
E-mail Address:	enowell@mfc.state.ms.us	

PROPERTY LOCATION

County:	Wayne	Total Acres:	643	Latitude:	-88.8	Longitude:	31.48
Section:	16	Township:	6N	Range:	8W		

DISCLAIMER

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 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.

Purpose

This plan is a vital part of the Mississippi Forestry Commission's efforts in implementing the best forest management program possible on sixteenth section school trust lands in Wayne County, Mississippi. This plan establishes a tentative schedule of activities to be followed in improving sixteenth section forested land through a directed forest

management program. Wayne County presently claims title to twenty four parcels of sixteenth section land, twenty three which are full sections, and one is a half section. Increasing demands are being placed on sixteenth section lands to provide additional revenue to supplement its public school system. In regard to meeting these demands for the managing of forest resources, it will require an intensive forest management program and a working knowledge of the silvicultural choices available.

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 Zones.

PROPERTY DESCRIPTION

General Property Information

General

This section consists of one full section of land containing approximately 640 acres. This section is located completely within the Desoto National Forest and is accessed by only one public road, the Jim Walley Loop Road, which runs along the north boundary of the section. Access through the section is good with two primary access roads, one on the east side and one on the west side. The access road on the west side runs completely through the section and onto the adjoining forest service lands on both the west and south side. There is one residential lease on this section in the north west corner. This section contains 637 acres of forest land and 6 acres of non-forest land. The non-forest land consists of leases, roads, and food plots.

History

There has been 3 timber sales on this section since 2001, the most recent being a 100 regeneration sale. There has been approximately 300 acres burned for competition and fuel reduction.

Problems

The most limiting factor on this section is the fox pen. It limits access.

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.

Threatened and Endangered Species
No threatened and endangered species were identified during the reconnaissance and evaluation of your property.

Archelogical or Cultural Resources
These areas can range from churches, old cemeteries 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 anytime on the property special managements measures will be applied immediately in order preserve these sensitive areas.

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.

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

Boundary lines will be maintained by MFC. All lines will be marked with red paint.

Roads

Roads will be maintained by the Mississippi Forestry Commission on a as needed basis.

SOIL TYPES

McLaurin

The McLaurin component makes up 33 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 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 72. Slash Site Index = 90.

Heidel

The Heidel component makes up 33 percent of the map unit. Slopes are 8 to 12 percent. This component is on uplands. 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 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Slash Site Index = 90.

Prentiss
The Prentiss component makes up 34 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy alluvium deposits. Depth to a root restrictive layer, fragipan, is 20 to 32 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 26 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 88.

STRATA

Strata 3

Strata Description

Strata 3: Stand 11

Acres: 88

This stand is a longleaf pine plantation that is 2 years old. The stand is well stocked with pine seedlings.

Stand Recommendations

This stand will be managed to a 50 to 60 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, fertilization, and prescribe burning to improve wildlife habitat will be used to keep stands at full production.

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.

Strata 4

Strata Description

Strata 4: Stands 15,36,40

Acres: 169

These stands are 26 year old loblolly pine plantations. These stands are well stocked with pine pulpwood, chip-n-saw, and sawtimber. Due to the stand sizes, they will be managed as one condition.

Stand Recommendations

These stands will be managed to a 35 to 45 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, fertilization, and prescribe burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest

A 2nd thinning is scheduled in 2017. It will focus on removing poor quality pulpwood and chip-n-saw size trees. Residual stocking will be 70 square feet per acre.

Strata 5

Strata Description

Strata 5: Stands 17,38

Acres:100

These stands were sold as a final harvest. The timber has been harvested and site-prep has been completed. Reforestation activities are in progress.

Stand Recommendations

These stands will be managed to a 35 to 45 year rotation. During this time frame, management activities such as site-prep, tree planting, thinnings, and prescribe burning will be implamented.

Activity Recommendations

Regeneration

These stands will be machine planted with genetically improved loblolly in the winter of 2011/2012 at a rate of 605 TPA. A survival check will be made the following year to ensure sufficient stocking.

Strata 7

Strata Description

Strata 7: Stands 21,23

Acres: 93

These stands are loblolly pine plantations that are 12 years old. These stands are well stocked with pine pulpwood. Due to the stand sizes, they will be managed as one condition.

Stand Recommendations

These stands will be managed to a 35 to 45 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, fertilization, and prescribe burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest

A first thinning is scheduled in 2016. It will focus on removing poor quality, diseased, or poor formed trees. Residual stocking will be 70 square feet per acre.

Strata 8

Strata Description

Strata 8: Stand 9

Acres: 68

This stand is a loblolly pine plantation that is 12 years old. The stand is well stocked with pine pulpwood.

Stand Recommendations

This stand will be managed to a 35 to 45 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, fertilization, and prescribe burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest

A first thinning is scheduled in 2014. It will focus on removing poor quality, diseased, or poor formed trees. Residual stocking will be 70 square feet per acre.

Strata 9

Strata Description

Strata 9: Stand 7

Acres: 96

This stand is a loblolly pine plantation that is 11 years old. The stand is well stocked with pine pulpwood.

Stand Recommendations

This stand will be managed to a 35 to 45 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, fertilization, and prescribe burning to improve wildlife habitat will be used to keep stands at full production.

Activity Recommendations

Harvest

A first thinning is scheduled in 2015. It will focus on removing poor quality, diseased, or poor formed trees. Residual stocking will be 80 square feet per acre.

Strata 10

Strata Description

Strata 10: Stands 4,6,19,28

Acres: 90

These stands are permanent stream side management zones. These are well stocked stands of mature hardwood and pine.

Stand Recommendations

These stands will be managed as permanent SMZ's. Harvest of mature timber will be coordinated along with adjoining timbeer sales. Harvest will focus on maintaining 50% crown cover.

OTHER PLAN ACTIVITIES

Fire Control

Line Description

Generally, these lines consist of permanent boundary lines that delineate the section boundary. They are usually well established and readily identified by a pushed or painted line.

Line Recommendations

Routine inspections and general maintenance of the roads, firelanes, and boundary lines will ensure overall appearance and aesthetics of the property. These lines are usually maintained by painting or pushing. These lines are maintained every 3 to 5 years.

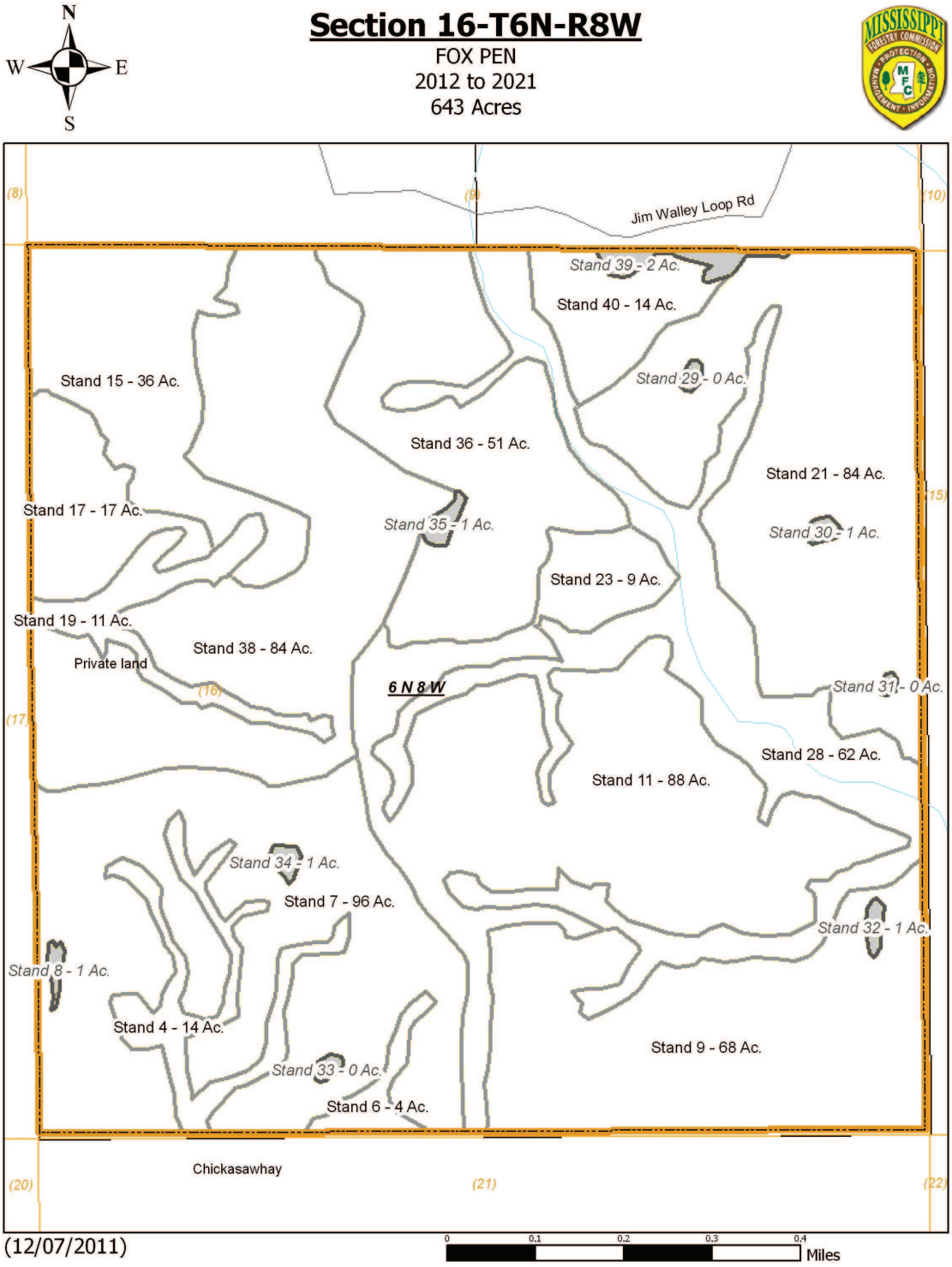
Activity Recommendations

Fire Protection

Firelane maintenance is scheduled for 2014.

Legend

Section 16-T6N-R8W


N
W
E
S
Section 16-T6N-R8W
FOX PEN
2012 to 2021
643 Acres
MISSISSIPPI FORESTRY COMMISSION
(8)
(9)
(10)
Jim Walley Loop Rd
Stand 39 - 2 Ac.
Stand 40 - 14 Ac.
Stand 15 - 36 Ac.
Stand 29 - 0 Ac.
Stand 36 - 51 Ac.
Stand 21 - 84 Ac.
Stand 17 - 17 Ac.
Stand 35 - 1 Ac.
Stand 30 - 1 Ac.
(15)
Stand 23 - 9 Ac.
Stand 19 - 11 Ac.
Stand 38 - 84 Ac.
Private land
6 N 8 W
(16)
Stand 31 - 0 Ac.
(17)
Stand 28 - 62 Ac.
Stand 11 - 88 Ac.
Stand 34 - 1 Ac.
Stand 7 - 96 Ac.
Stand 32 - 1 Ac.
Stand 8 - 1 Ac.
Stand 4 - 14 Ac.
Stand 9 - 68 Ac.
Stand 33 - 0 Ac.
Stand 6 - 4 Ac.
Chickasawhay
(20)
(21)
(22)
(12/07/2011)
0
0.1
0.2
0.3
0.4
Miles

Stand Activity Schedule for
Wayne County BOE
16 6N 8W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
3	11	Fire Protection, Other, Burn, Hand, Fuel Reduction	88	$1,760.00	$0.00
		Yearly Totals	88	$1,760.00	$0.00
2014					
8	9	Harvest, Mechanical, 1st Thin, Machine, Loblolly	68	$2,380.00	$20,944.00
		Yearly Totals	68	$2,380.00	$20,944.00
2015					
9	7	Harvest, Mechanical, 1st Thin, Machine, Loblolly	96	$3,360.00	$29,568.00
		Yearly Totals	96	$3,360.00	$29,568.00
2016					
7	21	Harvest, Mechanical, 1st Thin, Machine, Loblolly	84	$2,940.00	$27,720.00
7	23	Harvest, Mechanical, 1st Thin, Machine, Loblolly	9	$312.90	$2,950.20
		Yearly Totals	93	$3,252.90	$30,670.20
2017					
4	15	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	36	$1,260.00	$15,480.00
4	36	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	51	$1,778.00	$21,844.00
4	40	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	14	$482.65	$5,929.70
		Yearly Totals	101	$3,520.65	$43,253.70
		Grand Totals	**446**	**$14,273.55**	**$124,435.90**