



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Natchez-Adams School District

Prepared By:
Charles Wellborn
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-01-24

Plan Type:
Stewardship / Stewardship

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

Property Name: 31-T9N-R2W

TABLE OF CONTENTS

LANDOWNER INFORMATION	3
FORESTER INFORMATION	3
DISCLAIMER	3
INTRODUCTION	3
OBJECTIVES	4
PROPERTY DESCRIPTION	4
SOIL TYPES	5
GENERAL PROPERTY RECOMMENDATIONS	6
STRATA	8
PLAN MAP	11
PLAN MAP	12
STRATA ACTIVITY SCHEDULE	13

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Organization: Natchez-Adams School District
Name: Natchez-Adams School District
Mailing Address: P.O. Box 1185
City, State, Zip: Natchez, MS 39120
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-445-2815
Fax Number:

E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Charles Wellborn , Adams-Wilk. Service Forester
Forester Number: 00446
Organization: MFC
Street Address: 75C Carthage Point Rd.
City, State, Zip: Natchez, MS 39120
Contact Numbers: Office Number: 601-442-0472
Fax Number:
E-mail Address: cwellborn@mfc.state.ms.us

PROPERTY LOCATION

County: Adams Total Acres: 410 Latitude: -91.31 Longitude: 31.71
Section: 31 Township: 9N Range: 2W

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. 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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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

Located in the extreme northern portion of the county, Section 31 is bordered by Fairchilds Creek on the east. This creek separates Adams and Jefferson Counties. The acreage is considered to be 410 acres. Access is through adjacent landowners on a trail that is traversable by foot or ATV. The road washes out sometimes, but usually the hunting clubs work the roads before hunting season. The northwest corner can be reached through Anna's Bottom by walking one-half of a mile from a public road on the west. This is extremely, deeply dissected terrain, some of the roughest in the county. The soils are extremely highly erodible, and must be worked yearly to avoid loss of the roads. The last sale was in 1996 and brought \$155,000.00 for the school board. Thirty-five acres was harvested. This was mainly large pine sawtimber along the woods roads. The harvested area was planted in 1997 with Shumard Oak and the area was injected to release the oaks in October 2006.

Archeological or Cultural Resources

No archeological or cultural resources were observed during our inspection of this property.

Water Resources

Fairchilds Creek borders much of the north and west boundary. 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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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:

SOIL TYPES

GxF

Generated brief soil descriptions are created for major soil components. The Gullied land is a miscellaneous area. The Natchez component makes up 27 percent of the map unit. Slopes are 17 to 60 percent. This component is on hillslopes. The parent material consists of loess 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 very 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Gu

Generated brief soil descriptions are created for major soil components. The Gullied land is a miscellaneous area. Loblolly Site Index = 68.

Water

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

Memphis

The Memphis component makes up 59 percent of the map unit. Slopes are 17 to 40 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 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 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 7e. This soil does not meet hydric criteria. The Natchez component makes up 29 percent of the map unit. Slopes are 17 to 60 percent. This component is on hillslopes. The parent material consists of loess deposits. Depth to a root restrictive layer is greater

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 very 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Morganfield

The Morganfield 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 42 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Adler

The Adler 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 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.

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:

MISSISSIPPI FORESTRY COMMISSION FOREST STEWARDSHIP MANAGEMENT PLAN

- 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.

The boundary lines were last painted in FY 2000. There are no plans to paint the boundary lines on this section. However, the boundary lines on Section 6, which joins Section 31, are scheduled to be painted in FY 2012. The terrain is so steep, it is very difficult and costly to paint boundary lines in this area. When the lines on Section 6 are painted, the lines on Section 31 will be inspected. If they are clearly visible, they will not be painted at this time. But they will be painted in the future as needed.

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.

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

STRATA

Strata 1

Strata Description

Strata 1: Stands 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and 21

Acres: 35

Strata 1 was the area that was harvested in 1996 and planted with Shumard Oak. Survival on the scattered areas is variable and some areas have been invaded with black locust and other undesirable species. This area is roughly 35 acres in size.

Stand Recommendations

This stand will be managed for mixed hardwood production on a 55-year rotation. During this time frame, management activities such as, thinning to remove poor quality trees and improve growth, and vegetative control of undesirable species will be used to keep stands at full production.

Activity Recommendations

Technical

This area should be inspected in 2013 for further management practices.

Strata 2

Strata Description

Strata 2: Stands 3 and 22

Acres: 60

Consists of mixed hardwoods in various stages of products and degrees of quality. Major species are cherrybark oak, Shumard oak, yellow poplar, sweetgum, and other species. This is basically a sawtimber stand. The terrain is very steep and harvesting would be very difficult to do without causing erosion. There is approximately 14 acres in this strata that is level enough to do a timber sale on.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Stand Recommendations

This stand will be managed for mixed hardwood production on a 55-year rotation. During this time frame, management activities such as, thinning to remove poor quality trees and improve growth, and vegetative control of undesirable species will be used to keep stands at full production.

Activity Recommendations

Vegetation Control

In FY 2012 undesirable understory species should be injected with herbicide. This should let in enough sunlight to allow the establishment of oak regeneration. This will only be done on the 14 acres that is level enough to harvest. This will be done on Stand 22.

Harvest

A regeneration harvest is scheduled for fiscal year 2015 on Stand 22. A minimum 10 percent cruise will be done on the area before the sale. Sealed bids will be received to maximize income. This harvest will only be done if oak regeneration has become established. After the harvest, it may be necessary to chainsaw all the remaining stems larger than one inch in diameter to further prepare the area for adequate oak regeneration.

Strata 3

Strata Description

Strata 3: Stand 2

Acres: 327

This strata is approximately 327 acres in size and is essentially the same species composition and size distribution as Strata 2. The main difference is there are no level areas left that have not been harvested. The only level areas on this strata were harvested and planted in 1996 and 1997. The terrain is so steep it would be best in my opinion to not harvest this area unless better logging practices are developed.

Stand Recommendations

This stand will be managed for mixed hardwood production on a 55-year rotation. During this time, management activities such as thinning to remove poor quality trees and improve growth, and controlling undesirable species will be done to keep stands at full production.

Activity Recommendations

Technical

This area should be inspected in 2015 for further management practices.

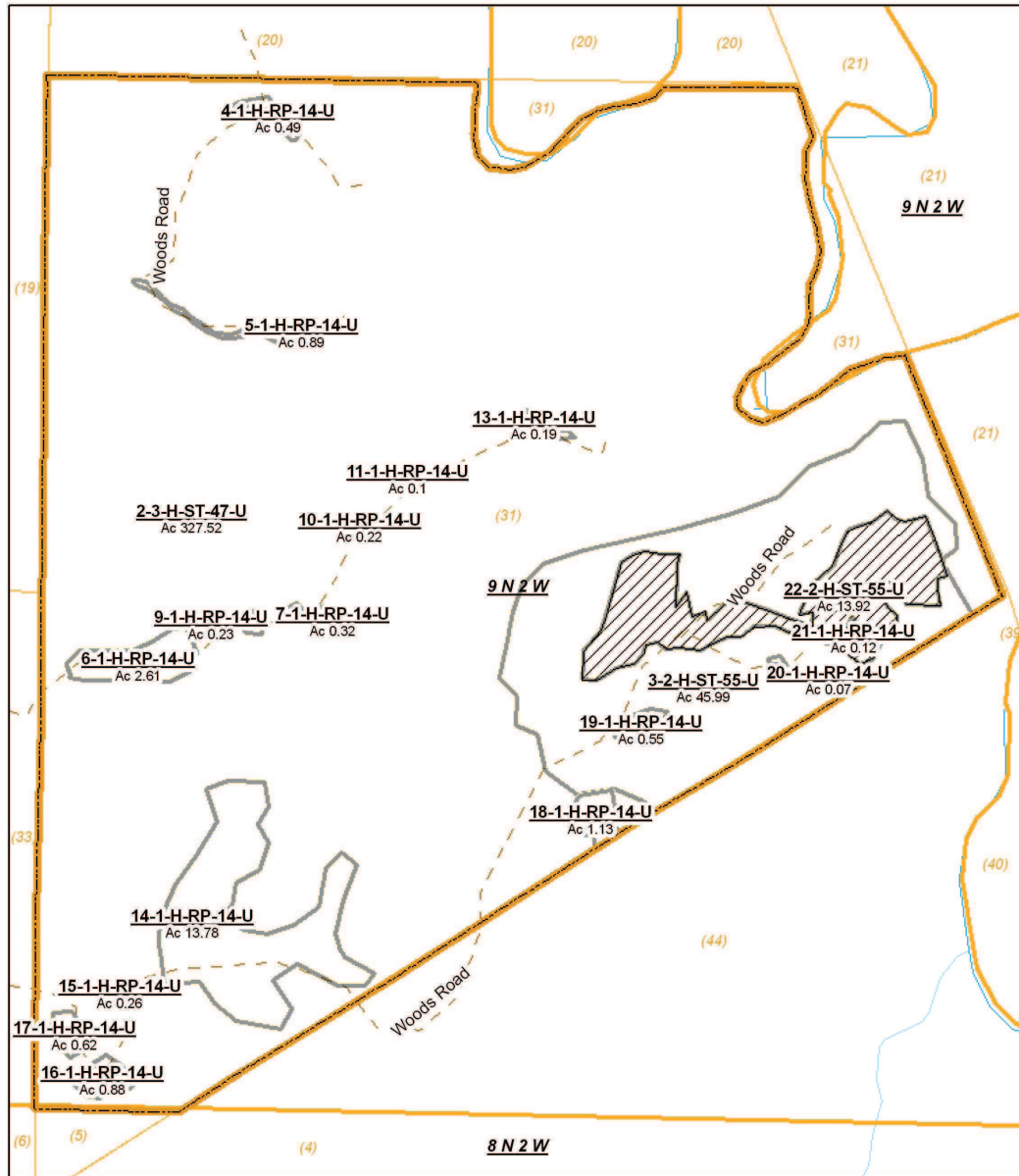
**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

NATCHEZ-ADAMS SCHOOL DISTRICT

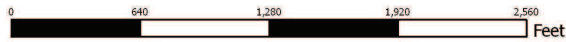


NATCHEZ-ADAMS SCHOOL DISTRICT

S31, T9N, R2W, ADAMS COUNTY, MISSISSIPPI
2012 to 2021
410 +/- ACRES



(11/18/2011)





S31, T9N, R2W, ADAMS COUNTY- LEGEND

Property



Category 1: Stands

- Clear Cut
- Non-Stocked
- Reproduction
- Sub-Merchantable
- Pulpwood
- Chip-n-Saw
- Sawtimber
- Poles

Category 2: Stands

- Clear Cut
- Non-Stocked
- Reproduction
- Sub-Merchantable
- Pulpwood
- Chip-n-Saw
- Sawtimber
- Poles

Category 3: Non-Forest Stands

- Non-Forest

Hydrology (Points)

- Concrete Dam
- Beaver Dam
- Earthen Dam
- Permanent
- Temporary
- Wooden
- Other
- Culvert
- Pond

Stand Activity Summary for
Natchez-Adams School District
31 9N 2W

Filters Applied: County: Adams
Client Class:
District:
Client: Natchez-Adams School Dis
STR: 31 9N 2W
Activity:
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012						
31 9N 2W	2	22	Vegetation Control, Chemical, Broadcast, Hand, Woody	14	\$980.00	\$0.00
Yearly Totals				14	\$980.00	\$0.00
2013						
31 9N 2W	1	4	Technical, Maintain, Update, Hand, Management Plan	0	\$0.98	\$0.00
31 9N 2W	1	5	Technical, Maintain, Update, Hand, Management Plan	1	\$1.78	\$0.00
31 9N 2W	1	6	Technical, Maintain, Update, Hand, Management Plan	3	\$6.00	\$0.00
31 9N 2W	1	7	Technical, Maintain, Update, Hand, Management Plan	0	\$0.64	\$0.00
31 9N 2W	1	8	Technical, Maintain, Update, Hand, Management Plan	0	\$0.28	\$0.00
31 9N 2W	1	9	Technical, Maintain, Update, Hand, Management Plan	0	\$0.46	\$0.00
31 9N 2W	1	10	Technical, Maintain, Update, Hand, Management Plan	0	\$0.44	\$0.00
31 9N 2W	1	11	Technical, Maintain, Update, Hand, Management Plan	1	\$2.00	\$0.00
31 9N 2W	1	12	Technical, Maintain, Update, Hand, Management Plan	1	\$2.00	\$0.00
31 9N 2W	1	13	Technical, Maintain, Update, Hand, Management Plan	0	\$0.38	\$0.00
31 9N 2W	1	14	Technical, Maintain, Update, Hand, Management Plan	14	\$27.56	\$0.00
31 9N 2W	1	15	Technical, Maintain, Update, Hand, Management Plan	0	\$0.52	\$0.00
31 9N 2W	1	16	Technical, Maintain, Update, Hand, Management Plan	1	\$1.76	\$0.00
31 9N 2W	1	17	Technical, Maintain, Update, Hand, Management Plan	1	\$1.24	\$0.00
31 9N 2W	1	18	Technical, Maintain, Update, Hand, Management Plan	1	\$2.26	\$0.00

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
31 9N 2W	1	19	Technical, Maintain, Update, Hand, Management Plan	1	\$1.10	\$0.00
31 9N 2W	1	20	Technical, Maintain, Update, Hand, Management Plan	0	\$0.14	\$0.00
31 9N 2W	1	21	Technical, Maintain, Update, Hand, Management Plan	0	\$0.24	\$0.00
Yearly Totals				25	\$49.78	\$0.00
2015						
31 9N 2W	2	22	Harvest, Mechanical, Regeneration, Machine, Misc Hardwood	14	\$703.50	\$13,384.00
31 9N 2W	3	2	Technical, Maintain, Update, Hand, Management Plan	328	\$656.00	\$0.00
Yearly Totals				342	\$1,359.50	\$13,384.00
Grand Totals				381	\$2,389.28	\$13,384.00