



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: 32-T6N-R1W**

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

## TABLE OF CONTENTS

LANDOWNER INFORMATION .....	3
FORESTER INFORMATION .....	3
DISCLAIMER .....	3
INTRODUCTION .....	3
OBJECTIVES .....	4
PROPERTY DESCRIPTION .....	4
SOIL TYPES .....	5
GENERAL PROPERTY RECOMMENDATIONS .....	5
STRATA .....	7
PLAN MAP .....	10
PLAN MAP .....	11
STRATA ACTIVITY SCHEDULE .....	12

**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: 370    Latitude: -91.22    Longitude: 31.49  
Section: 32    Township: 6N    Range: 1W

**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*

This section is located about 10 miles southeast of Natchez, MS and contains about 345 acres which is all forested. Most of the section can be accessed by Fleming Road off of Cranfield Road. The northeast corner of the section can be accessed by Billy Martin Road. The terrain is hilly with steep slopes and many streams and drainages.

*Archeological or Cultural Resources*

No Archeological or Cultural Resources were identified during the reconnaissance of this property.

*Water Resources*

Hoggatt Branch drains the middle part of this section. Another creek flows through the northeast part of the section and they both flow into Sandy Creek. 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

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

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**

*Memphis*

The Memphis component makes up 90 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 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 3e. This soil does not meet hydric criteria. Loblolly Site Index = 105.

*Collins*

The Collins 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 42 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.

*Memphis*

The Memphis component makes up 90 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. Loblolly Site Index = 105.

**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.

# MISSISSIPPI FORESTRY COMMISSION FOREST STEWARDSHIP MANAGEMENT PLAN

## 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.

Boundary lines were painted in 2009. They are scheduled to be painted again in 2014 and 2019.

**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.

**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: Stand 12

Acres: 37

This loblolly pine stand was planted in 1987 and was thinned in 2010 in conjunction with Strata 2. Terrain on this stand is hilly as is the whole section. Although this strata was planted with pine, hardwood has become established mainly on the side slopes and bottoms.

Stand Recommendations

This stand will be managed for loblolly pine on a 35-year rotation. Following the final harvest this area will be regenerated with loblolly pine artificially.

Activity Recommendations

Harvest

Another thinning is scheduled for 2017. The basal area should be reduced to approximately 75 square feet per acre.

*Strata 2*

Strata Description

Strata 2: Stands 20, 24

Acres: 87

This strata contains a stand of primarily pine pulpwood with some hardwood mixed in. Like most of the section, this area has steep slopes and is dissected by creeks and drainages. This strata is the result of a seed tree cut that was done in 1987. This strata was thinned in 2010 in conjunction with Strata 1.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

Stand Recommendations

This stand will be managed for loblolly pine on a 35-year rotation. Following the final harvest this area will be regenerated with loblolly pine artificially.

Activity Recommendations

Harvest

Another thinning is scheduled for 2017. The basal area should be reduced to approximately 75 square feet per acre.

*Strata 3*

Strata Description

Strata 3: Stand 18

Acres: 64

This strata contains a stand of mixed pine and hardwood pulpwood and saplings. There are many other species which have become established in the area. These species include black cherry, yellow poplar, water oak, beech, honeylocust, Hercules club, and chinaberry.

Stand Recommendations

This stand will be managed for mixed hardwood production on a 55-year rotation.

Activity Recommendations

Technical

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

*Strata 4*

Strata Description

Strata 4: Stand 22

Acres: 101

This area was harvested in 1993. The drainages were managed as streamside management zones. The lower slopes were left to regenerate naturally with hardwoods. The ridges and sideslopes, which are about 70 acres, were treated with Velpar L herbicide using the spotgun and the area was planted with loblolly pine in 1994. Now this strata contains a well stocked stand of mixed pine and hardwoods with pine mainly on the ridges and upper slopes.



**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

Stand Recommendations

This stand will be managed for pine and hardwood timber on a 55-year rotation.

Activity Recommendations

Technical

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

*Strata 5*

Strata Description

Strata 5: Stand 10, 23

Acres: 45

In 2000 the pine was harvested from this area and the hardwood was left to grow. The sale brought \$74,278.00 for the schools. Now the stand contains a fairly well stocked stand of hardwood sawtimber and pulpwood. Species include cherrybark oak, sweetgum, yellow poplar, and some pine.

Stand Recommendations

This stand will be managed for pine and hardwood timber on a 55-year rotation.

Activity Recommendations

Technical

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

*Strata 6*

Stand Description

Strata 6: Stand 11, 19

Acres: 14

This stand is approximately 14 acres in size and contains mixed pine and hardwood timber. This stand will be managed as a streamside management zone for the length of the plan.

Stand Recommendations

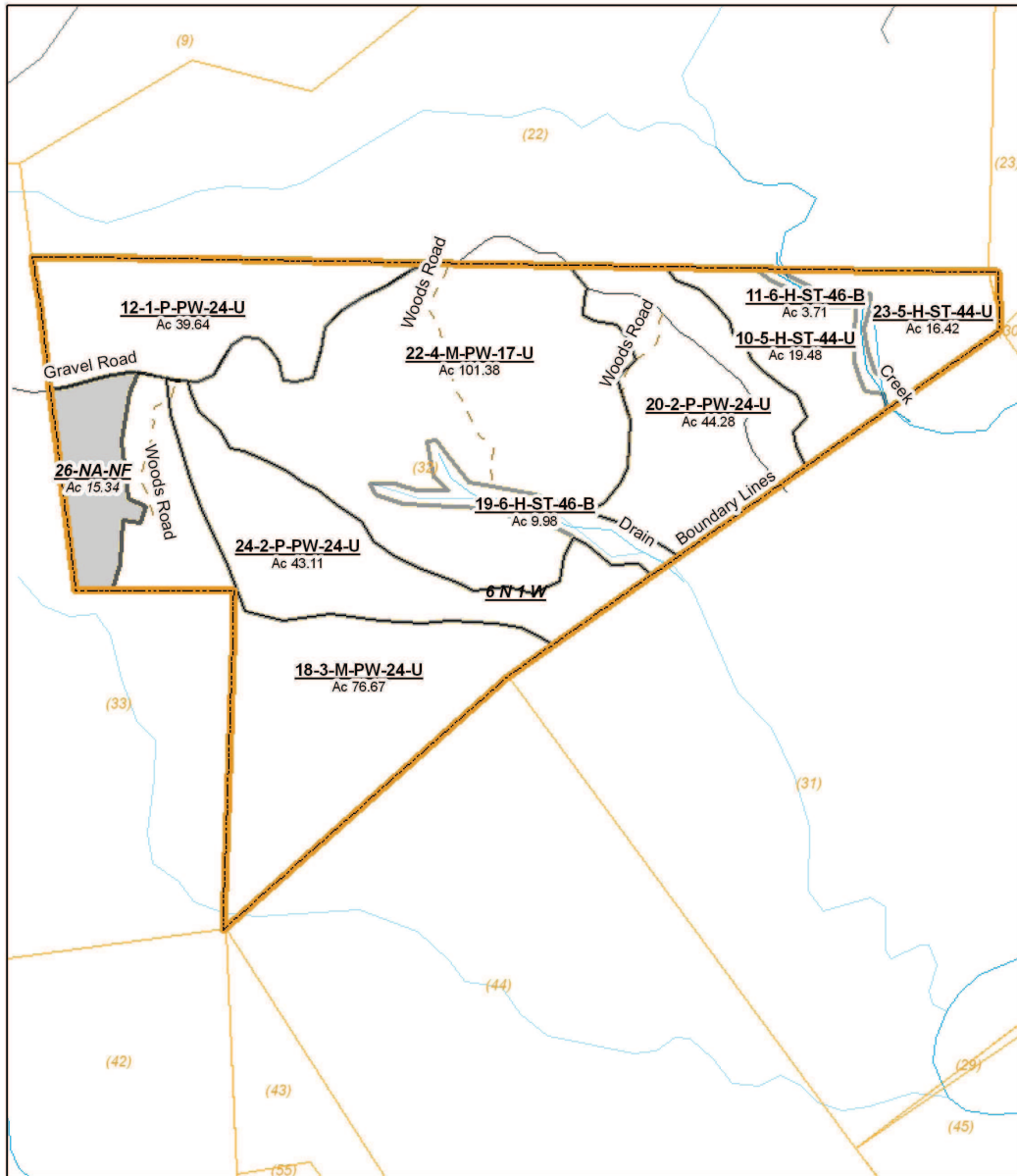
This stand will be allowed to grow for the length of this plan and possibly some trees might be removed during sales on adjacent stands. It will be managed as a streamside management zone (SMZ).

NATCHEZ-ADAMS SCHOOL DISTRICT



**NATCHEZ-ADAMS SCHOOL DISTRICT**

S32, T6N, R1W, ADAMS COUNTY, MISSISSIPPI  
2012 to 2021  
370 +/- ACRES



(12/02/2011)





S32, T6N, R1W, 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  
32 6N 1W

**Filters Applied:** County: Adams  
Client Class:  
District:  
Client: Natchez-Adams School Dis  
STR: 32 6N 1W  
Activity:  
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>						
32 6N 1W	3	18	Technical, Maintain, Update, Hand, Management Plan	77	\$154.00	\$0.00
32 6N 1W	4	22	Technical, Maintain, Update, Hand, Management Plan	101	\$202.00	\$0.00
<b>Yearly Totals</b>				<b>178</b>	<b>\$356.00</b>	<b>\$0.00</b>
<b>2015</b>						
32 6N 1W	5	10	Technical, Maintain, Update, Hand, Management Plan	19	\$38.00	\$0.00
32 6N 1W	5	23	Technical, Maintain, Update, Hand, Management Plan	16	\$32.84	\$0.00
<b>Yearly Totals</b>				<b>35</b>	<b>\$70.84</b>	<b>\$0.00</b>
<b>2017</b>						
32 6N 1W	1	12	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	40	\$1,000.00	\$7,680.00
32 6N 1W	2	20	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	44	\$1,100.00	\$8,800.00
32 6N 1W	2	24	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	43	\$1,075.00	\$8,428.00
<b>Yearly Totals</b>				<b>127</b>	<b>\$3,175.00</b>	<b>\$24,908.00</b>
<b>Grand Totals</b>				<b>340</b>	<b>\$3,601.84</b>	<b>\$24,908.00</b>