



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: 16-T5N-R1W**

## 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 .....	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: 431    Latitude: -91.21    Longitude: 31.41  
Section: 16    Township: 5N    Range: 1W

**DISCLAIMER**

*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 in the southeastern part of Adams County. Approximately 428 acres are forested, after deducting roads, pipelines and well sites. It is completely surrounded by the Homochitto National Forest and is located within the Sandy Creek Wildlife Management Area. The last block of old growth timber was harvested and planted with loblolly pine in 2010. The rest of the section is in different ages of pine stands with hardwood mixed in. This is the only one of the sections that is not surrounded by private land. The section is easily accessible by U.S. Forest Service road #120. The terrain is hilly with some small flats and creek bottoms.

*Archeological or Cultural Resources*

No archeological or cultural resources were identified during the reconnaissance of this property.

*Water Resources*

Pellucid Bayou is the major creek that runs through the section. 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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*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**

*Lucy*

The Lucy component makes up 50 percent of the map unit. Slopes are 8 to 45 percent. This component is on coastal plains. The parent material consists of sandy and 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 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 7e. This soil does not meet hydric criteria. The Memphis component makes up 23 percent of the map unit. Slopes are 8 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 6e. 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:

- Unseasonable leaf fall
- Discoloration of leaves or needles

## MISSISSIPPI FORESTRY COMMISSION FOREST STEWARDSHIP MANAGEMENT PLAN

- 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 2011. Since this section is surrounded by national forest land, the U.S. Forest Service maintains the boundary lines. However, the boundaries should be painted by us at least every 7 years to show ownership. Therefore, we should paint them again in 2018.

**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.

### *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

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 58

Acres: 19

This area contains a stand of natural pine reproduction. The terrain is relatively level compared to the rest of the section. The mature stand of pine that occupied the area was clearcut in 1993. One SMZ was left out on the northern part. There was ample natural pine reproduction after harvesting to restock the area. Culls and undesirable species were injected with herbicide to control them. The area is now well stocked with loblolly pine.

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

The first thinning is scheduled for 2014. Basal area should be reduced to approximately 70 square feet per acre.

*Strata 2*

Strata Description

Strata 2: Stands 50, 48

Acres: 2

These areas were part of a 2008 regeneration cut. Because of the location and their size, these areas were left to regenerate naturally.

Stand Recommendations

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

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*Strata 3*

Strata Description

Strata 3: Stand 44

Acres: 126

This area contains a loblolly pine plantation that was planted in 1984. The first thinning was done in 2005 and brought \$6,248.90. This part of the section is cut off by the Pellucid Bayou and access is through a locked U.S. Forest Service gate that we do have a key to. The next thinning is planned for 2013. The basal area should be reduced to approximately 75 square feet per acre.

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

A thinning is planned for this stand in 2013. Timber should be thinned to approximately 75 square feet of basal area.

*Strata 4*

Strata Description

Strata 4: Stand 60

Acres: 39

This area contains a stand of mixed pine and hardwood reproduction. After a timber harvest, this area was site prepared and the ridges were planted in 1993. The drains and lower slopes are natural hardwood reproduction. This area has a lot of gravel in it and the trees have not grown as well as expected. This stand should be ready to be thinned by 2014. Approximately 5 acres of the original area was taken up by a gas well.

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. The side slopes and bottoms will be managed for hardwoods.

Activity Recommendations

Harvest

This area should be thinned for the first time in 2014 in conjunction with a thin on Strata 1. The basal area should be reduced to approximately 75 square feet per acre.



**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*Strata 5*

Strata Description

Strata 5: Stand 4

Acres: 53

This is a stand of loblolly pine that was seeded in 1989. The lower slopes and drains are mixed hardwood saplings and pulpwood. The stand is fully stocked. The first thinning on this stand was done in 2009 and brought \$8,060.00. The second thinning is planned for 2019.

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 2019. The basal area should be reduced to approximately 75 square feet per acre.

*Strata 6*

Strata Description

Strata 6: Stand 62

Acres: 33

This area is deeply dissected by several creeks and intermittent streams. There are scattered large pine and hardwood trees in the area. This area may be inaccessible because of the creeks and steep terrain.

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 2016 for further management practices.

*Strata 7*

Stand Description

Strata 7: Stands 49, 52, 57

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

Acres: 13

This stand is approximately 13 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).

*Strata 8*

**Strata Description**

Strata 8: Stands 56, 55, 63

Acres: 139

This area was harvested in 2008 and was the last block of old growth timber on the section. I hated to cut it, but it was slow growing white oak, beech and was growing on soils that were better suited to growing pines. The sale of this timber brought \$242,985.00 for the schools. The area was planted with loblolly pine seedlings in 2010 after being site prepared by aerial application of herbicide. Survival was good.

**Stand Recommendations**

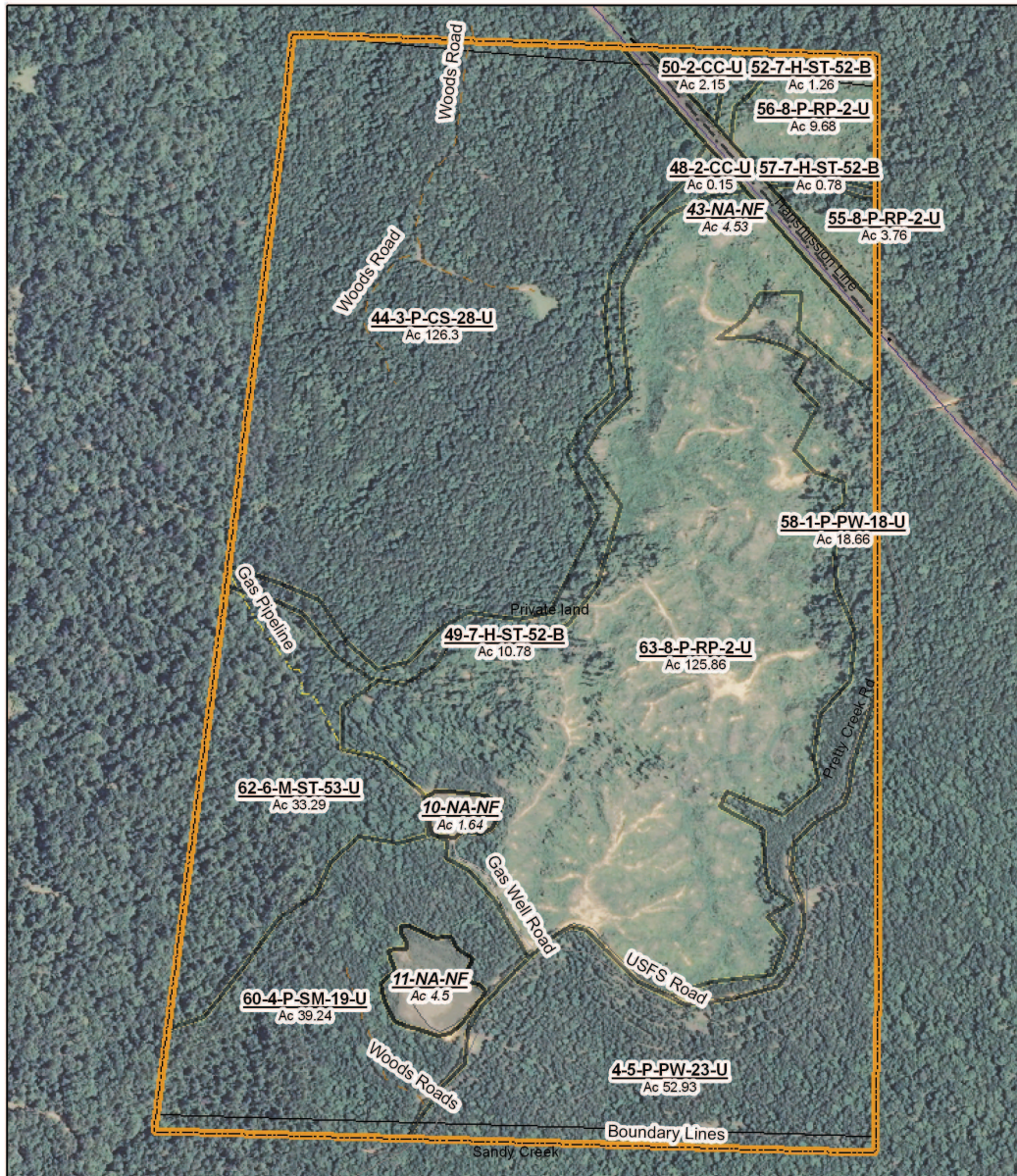
This stand will be managed for loblolly pine on a 35-year rotation. Following the final harvest this area will be regenerated with loblolly pine artificially.

NATCHEZ-ADAMS SCHOOL DISTRICT



**NATCHEZ-ADAMS SCHOOL DISTRICT**

S16, T5N, R1W, ADAMS COUNTY, MS  
2012 to 2021  
431+/- ACRES



(01/25/2012)





S16, T5N, 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  
16 5N 1W

**Filters Applied:** County: Adams  
Client Class:  
District:  
Client: Natchez-Adams School Dis  
STR: 16 5N 1W  
Activity:  
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>						
16 5N 1W	3	44	Harvest, Mechanical, Thin, Machine, Loblolly	126	\$738.36	\$22,273.02
Yearly Totals				126	\$738.36	\$22,273.02
<b>2014</b>						
16 5N 1W	1	58	Harvest, Mechanical, 1st Thin, Machine, Loblolly	19	\$111.34	\$2,660.00
16 5N 1W	4	60	Harvest, Mechanical, 1st Thin, Machine, Loblolly	39	\$975.00	\$7,293.00
Yearly Totals				58	\$1,086.34	\$9,953.00
<b>2016</b>						
16 5N 1W	6	62	Technical, Maintain, Update, Hand, Management Plan	33	\$66.00	\$0.00
Yearly Totals				33	\$66.00	\$0.00
<b>2019</b>						
16 5N 1W	5	4	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	53	\$310.58	\$9,328.00
Yearly Totals				53	\$310.58	\$9,328.00
<b>Grand Totals</b>				<b>270</b>	<b>\$2,201.28</b>	<b>\$41,554.02</b>