



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: 47-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	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: 726 Latitude: -91.18 Longitude: 31.47
Section: 47 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 southeast of Natchez, MS about one mile from the Franklin County line and contains approximately 726 acres. Access is good, but requires crossing of private property. The present road system on the section needs to be checked and maintained on a regular basis to prevent excess erosion and possible roads being completely lost to washouts. This section has had many management activities in the past going back to 1962 according to our records. Work done since the last management plan consists of a 275-acre seed tree removal sale on Strata 4 and 5 and a regeneration sale in Strata 2 in 1999. This sale sold for \$205,900.00. This area was site prepared by aerial herbicide application, burning and hand planting of pine in 2001. A regeneration sale on Strata 7 in 2010 brought \$221,998.00. This sale has not been harvested yet.

Archeological or Cultural Resources

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

Water Resources

There are numerous creeks and drains on the section that flow west to 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.

**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

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.

MISSISSIPPI FORESTRY COMMISSION FOREST STEWARDSHIP MANAGEMENT PLAN

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 last painted in 2008. They are scheduled to be painted in 2013 and 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.

**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 22, 7, 13, 14, 15, 16, 19

Acres: 107

This strata consists of approximately 107 acres of mixed hardwood and pine regeneration. Natural regeneration started in 1982 with a seed tree harvest. The seed trees were removed in 1999. Although the objective was to establish pine regeneration, hardwood regeneration has become established especially on the side slopes and in the drains. The pine regeneration exists mainly on the ridgetops.

Stand Recommendations

This strata 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 2015. Basal area should be reduced to approximately 70 square feet in areas that are able to be thinned. There are approximately 45 acres of predominately pine pulpwood on the ridgetops that should be able to be thinned.

Strata 2

Stand Description

Strata 2: Stands 8, 23

Acres: 90

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

This area contains a stand of pines that were planted in 2001 following site preparation by aerial herbicide application and burning. Survival was good and pines occupy the majority of the site.

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 2016. Basal area should be reduced to approximately 70 square feet per acre.

Strata 4

Strata Description

Strata 4: Stand 5

Acres: 80

This strata contains natural pine reproduction as a result of a seed tree cut in 1987. The seed trees were removed in 1999.

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 2015. Basal area should be reduced to approximately 70 square feet per acre.

Strata 5

Stand Description

Strata 5: Stand 24, 26, 27

Acres: 281

This strata contains a mixed pine hardwood pulpwood stand. This stand was established by the seed tree method. Seed trees were removed in 1993. These stands contain a higher percentage of pines than some of the other stands on the section.

**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

The first thinning is scheduled on Stand 27 in 2015. Basal area should be reduced to approximately 70 square feet per acre. This stand contains about 147 acres.

Harvest

The first thinning is scheduled on Stand 26 in 2016. Basal area should be reduced to approximately 70 square feet per acre. This stand contains approximately 36 acres.

Harvest

The first thinning is scheduled on Stand 24 in 2017. Basal area should be reduced to approximately 70 square feet per acre. This stand contains approximately 97 acres.

Strata 6

Stand Description

Strata 6: Stands 1, 2, 9, 10, 11, 18

Acres: 46

This stand is approximately 46-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 managed as a streamside management zone (SMZ).

Strata 7

Stand Description

Strata 7: Stands 12, 17

Acres: 121

This stand is a mixture of pine and hardwood sawtimber. The timber has been sold, but has not been harvested yet. This sale brought \$221,998.00 for the school board. The

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

board gave a free extension until June 2012 to cut this area at the request of the hunting club.

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

Site Preparation

In FY 2012 this area should be site prepared by an aerial herbicide application. Rates to be used will be determined by a herbicide company representative.

Regeneration

Following site preparation, this area will be planted with containerized loblolly pine seedlings on an 8' x 10' spacing.

Harvest

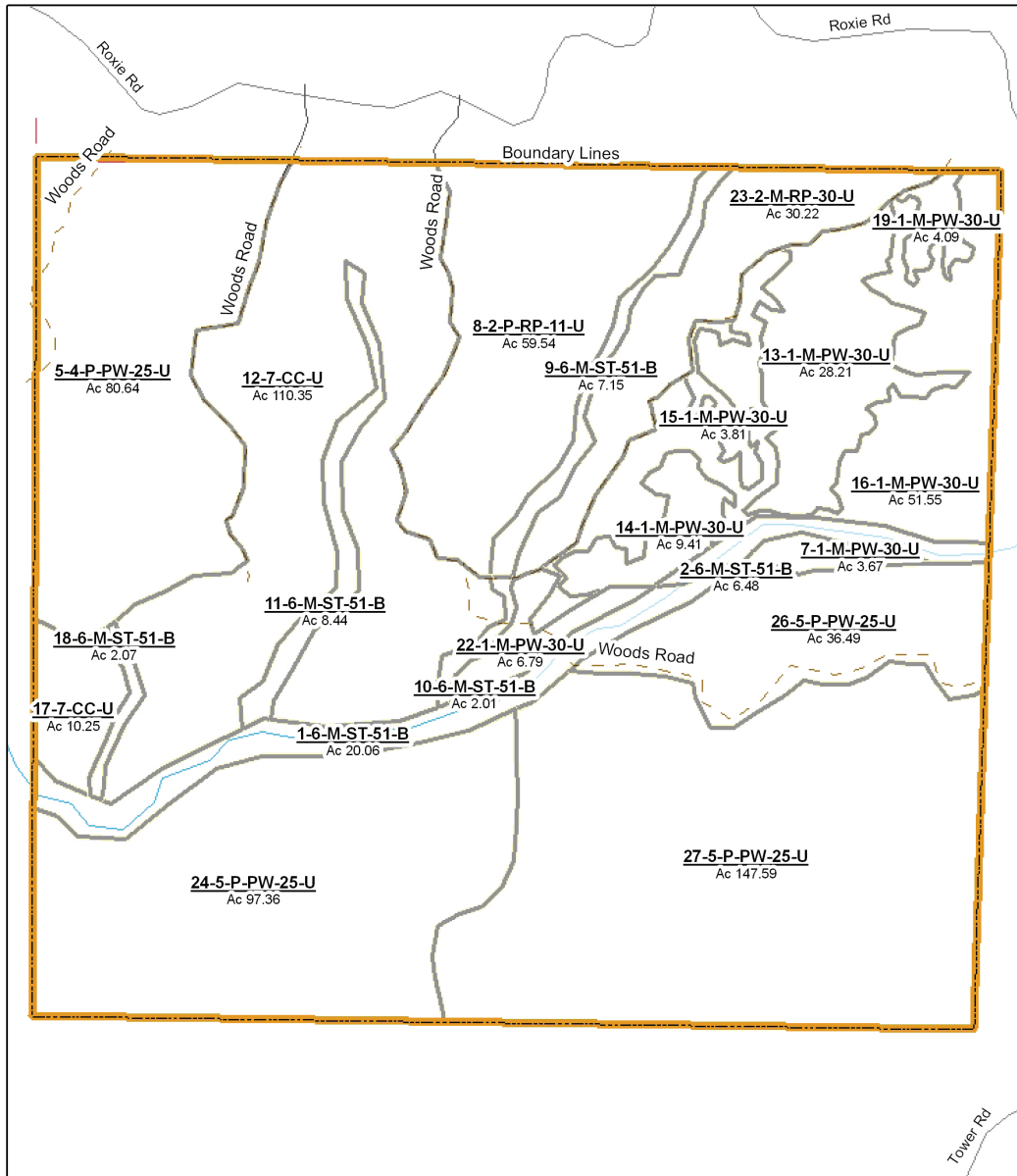
A regeneration sale was conducted in 2011. A minimum 10 percent cruise was conducted before the sale. Sealed bids on a lump sum basis were received to maximize revenues. As previously stated, the area has not been harvested yet.

NATCHEZ-ADAMS SCHOOL DISTRICT

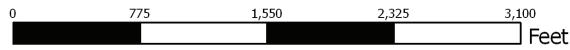


NATCHEZ-ADAMS SCHOOL DISTRICT

S47, T6N, R1W, ADAMS COUNTY MISSISSIPPI
2012 to 2021
726 +/- ACRES



(01/05/2012)





S47, 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
47 6N 1W

Filters Applied: County: Adams
Client Class:
District:
Client: Natchez-Adams School Dis
STR: 47 6N 1W
Activity:
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012						
47 6N 1W	7	12	Site Preparation, Chemical, Broadcast, Aerial, Combination	110	\$11,000.00	\$0.00
47 6N 1W	7	17	Site Preparation, Chemical, Broadcast, Aerial, Combination	10	\$1,025.00	\$0.00
Yearly Totals				120	\$12,025.00	\$0.00
2013						
47 6N 1W	7	12	Regeneration, Artificial, Plant, Hand, Loblolly	110	\$13,200.00	\$0.00
47 6N 1W	7	17	Regeneration, Artificial, Plant, Hand, Loblolly	10	\$1,230.00	\$0.00
Yearly Totals				120	\$14,430.00	\$0.00
2015						
47 6N 1W	1	7	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	\$91.75	\$480.77
47 6N 1W	1	13	Harvest, Mechanical, 1st Thin, Machine, Loblolly	28	\$705.25	\$3,695.51
47 6N 1W	1	14	Harvest, Mechanical, 1st Thin, Machine, Loblolly	9	\$235.25	\$1,232.71
47 6N 1W	1	15	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	\$95.25	\$499.11
47 6N 1W	1	16	Harvest, Mechanical, 1st Thin, Machine, Loblolly	52	\$1,288.75	\$6,753.05
47 6N 1W	1	19	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	\$102.25	\$535.79
47 6N 1W	1	22	Harvest, Mechanical, 1st Thin, Machine, Loblolly	7	\$175.00	\$917.00
47 6N 1W	4	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	81	\$1,215.00	\$10,206.00
47 6N 1W	5	27	Harvest, Mechanical, 1st Thin, Machine, Loblolly	147	\$3,675.00	\$21,462.00
Yearly Totals				336	\$7,583.50	\$45,781.94

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2016						
47 6N 1W	2	8	Harvest, Mechanical, 1st Thin, Machine, Loblolly	60	\$1,488.50	\$10,419.50
47 6N 1W	2	23	Harvest, Mechanical, 1st Thin, Machine, Loblolly	30	\$750.00	\$5,250.00
47 6N 1W	5	26	Harvest, Mechanical, 1st Thin, Machine, Loblolly	36	\$912.25	\$5,327.54
Yearlv Totals				126	\$3,150.75	\$20,997.04
2017						
47 6N 1W	5	24	Harvest, Mechanical, 1st Thin, Machine, Loblolly	97	\$2,425.00	\$14,162.00
Yearlv Totals				97	\$2,425.00	\$14,162.00
Grand Totals				799	\$39,614.25	\$80,940.98