



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: 83-T7N-1W

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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: 202 Latitude: -91.2 Longitude: 31.58
Section: 83 Township: 7N 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.

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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

Section 83 is located in the northeast part of Adams County and contains 202 acres, all of which are forested. The Natchez State Park owns on the northwest and south sides of the section. Private landowners own on the southeast and east sides of the section. The section can be accessed through the Natchez State Park or from the east. These roads are narrow ridge roads that wash out occasionally and have to be reworked. Much of this section is gullied land and the terrain is extremely rough with steep ridges and numerous gullies. The timber on this section was damaged by the wind storms of February 1998. Many large cherrybark oaks were blown down. We tried several times, but were unable to get a bid on the timber due to the rough terrain.

Archeological or Cultural Resources.

No Archeological or Cultural resources were observed during our inspection of this property.

Water Resources

There is one perennial stream which is a branch of Coles Creek which runs north to south 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.

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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

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.

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 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.

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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

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 FY2012. They are scheduled to be repainted in 2017.

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

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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 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 3

Acres: 32

A stand of hardwood reproduction with some pine occurs on this area. Ash, sweetgum, cherrybark oak, swamp chestnut oak, loblolly pine, sycamore and other species occupy the area. According to our records, this area was clearcut in 1987 and aerial seeded with loblolly pine. The black locust that had invaded the area was injected with herbicide in 1994. Most of the trees are approaching pulpwood size and the area is well stocked. The terrain is extremely steep.

Stand Recommendations

This stand will be managed for mixed pine and 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.

Strata 2

Strata Description

Strata 2: Stand 8

Acres: 23

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A clearcut sale was conducted in 2001 and brought \$26,240.80 for the schools. The original sale was for 54 acres, but the contractor did not finish logging before the contract time ran out. He did not want to pay for an extension and forfeited his performance bond. This area has a very dense understory of switchcane, which needs to be controlled. A herbicide company representative was shown the area and recommended a high rate of Velpar L herbicide from the ground. Either the contractor did not cover the area, which has very steep slopes, or the chemical did not work. The contractor was not paid. We got another recommendation for ULW herbicide applied by helicopter which was applied the following year. This did not work either. Since it was guaranteed, the company agreed to apply a high rate of Accord herbicide early in the growing season. This was finally done in June 2006 and appears to have done an adequate job. This area was planted with loblolly pine seedlings in 2007 and survival was adequate. The pine trees are growing above the switchcane that has come back in the area.

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.

Strata 3

Strata Description

Strata 3: Stands 11 and 13

Acres: 81

This area contains a stand of mixed hardwood sawtimber and pulpwood. Major species include sweetgum, yellow poplar, basswood, cherrybark oak, shumard oak, water oak, magnolia, hickory and others. There is a very dense understory of switchcane which makes it impossible for natural reproduction of desirable species to become established. The switchcane became more dense after the windstorms opened up the canopy and let more sunlight in. The terrain here is very steep and highly erodible.

Stand Recommendations

This stand will be managed for mixed pine and 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. This stand needs time to heal itself from the wind storm. Hopefully, the remaining trees will shade out some of the switchcane.

Activity Recommendations

Harvest

A regeneration harvest is scheduled on Stand 11 for fiscal year 2018. A minimum 10 percent cruise will be done on the area before the sale. Sealed bids will be received to maximize income.

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Harvest

A regeneration harvest is scheduled on Stand 13 for fiscal year 2021. A minimum 10 percent cruise will be done on the area before the sale. Sealed bids will be received to maximize income.

Strata 4

Strata Description

Strata 4: Stand 6

Acres: 38

A regeneration cut was made on this area in September 1993 that brought \$84,348.00 for the schools. The 38-acre tract was site prepared by using Velpar L herbicide ground applied in early 1994 and the area was planted with a mixture of loblolly pine, green ash and cherrybark oak in January 1995. The stand is fairly well stocked with ash, white oak, cherrybark oak, black locust and some pine. Most of the trees are sapling to small pulpwood sized.

Stand Recommendations

This stand will be managed for mixed pine and 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.

Strata 5

Strata Description

Strata 5: Stands 9 and 12

Acres: 12

These are mostly hardwood sawtimber size trees along the one perennial stream which runs north to south through the section. These will be managed as SMZ's.

Stand Recommendations

These stands will be allowed to grow for the length of this plan and possibly some trees might be removed during sales on adjacent stands. They will be managed as streamside management zones (SMZ).

NATCHEZ-ADAMS SCHOOL DISTRICT



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S83, T7N, R1W, ADAMS COUNTY, MS
2012 to 2021
202 +/- ACRES



(01/25/2012)



S83, T7N, R1W, ADAMS COUNTY-LEGEND



Property

 Property

Category 1: Stands

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

Category 1: Stands (cont)

-  Sawtimber
-  Poles


Category 2: Stands

-  Clear Cut
-  Non-Stocked
-  Reproduction
-  Sub-Merchantable
-  Pulpwood

Category 2: Stands (cont)

-  Chip-n-Saw
-  Sawtimber
-  Poles

Category 3: Non-Forest Stands

-  Non-Forest

Stand Activity Summary for
Natchez-Adams School District
83 7N 1W

Filters Applied: County: Adams
 Client Class:
 District:
 Client: Natchez-Adams School Dis
 STR: 83 7N 1W
 Activity:
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2018						
83 7N 1W	3	11	Harvest, Mechanical, Regeneration, Machine, Misc Hardwood	68	\$2,380.00	\$36,176.00
Yearly Totals				68	\$2,380.00	\$36,176.00
2021						
83 7N 1W	3	13	Harvest, Mechanical, Regeneration, Machine, Misc Hardwood	30	\$1,050.00	\$15,960.00
Yearly Totals				30	\$1,050.00	\$15,960.00
Grand Totals				98	\$3,430.00	\$52,136.00