



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
South Delta School District

Prepared By:
John Derrett Cason
MS Forestry Commission

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-21

Plan Type:
Stewardship / Stewardship

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

Property Name: 16-12N-6W

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LANDOWNER INFORMATION

Organization: South Delta School District
Name: South Delta School District
Mailing Address: PO Box 219
City, State, Zip: Rolling Fork, MS 39159
Country: United States of America
Contact Numbers: Home Number:
Office Number: 662-873-4294
Fax Number:

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

FORESTER INFORMATION

Name: John Derrett Cason , Public Lands Forester
Forester Number: 02427
Organization: MS Forestry Commission
Street Address: 212 East Broadway St. 3rd Floor CO. Office Bldg
PO Box 265

City, State, Zip: Yazoo City, MS 39194
Contact Numbers: Office Number: 662-746-6121
Fax Number:
E-mail Address: Jcason@mfc.state.ms.us

PROPERTY LOCATION

County: Sharkey Total Acres: 642 Latitude: -90.82 Longitude: 32.89
Section: 16 Township: 12N Range: 6W

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. These estimations are temporally static. 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

Fire Protection

The goal is to protect the resource from wildfires, by establishing and maintaining firebreaks around the property; annually inspect possible signs of insect infestations and disease; and prohibit grazing until terminal bud is beyond reach of livestock.

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.

PROPERTY DESCRIPTION

General Property Information

This section consists of 474 acres of bottomland hardwood timber. Approximately 82 percent of the forested acres are in the hardwood sawtimber product class with the remaining 18 percent in the hardwood reproduction class. Major species include nuttall oak, sweetgum, and pecan. This section also contains 168 non-forested acres.

Water Resources

A perennial stream bisects this section from the southeast corner to the northwest corner of the property. Forests along this stream and any other intermittent streams or 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 the property.

Interaction with Surrounding Property

Prescribed practices will be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration will 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. Refer to the SOIL TYPES section of this plan for a description of the soils identified for this property.

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Archeological and Cultural Resources

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

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.

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

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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.

Aesthetics

The goal is to assure that the property is managed in such a way that is aesthetically pleasing to the landowner as well as the community. Activities could include, maintaining buffer strips along the road and adjacent to the home site, planting wildflowers along the road, and trees with attractive fall and spring color along the drive and near the home site.

Ecological Restoration

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

Wildlife Mgt. Target Species

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management will focus on providing food, cover, water, and space to facilitate the target species.

Environmental Education

Environmental educational goals are to provide educational opportunities for children and adults through the development of items such as nature trails with tree identification markers, wildlife viewing areas, picnic areas, parking, public restroom facilities.

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.

Recreation

According to landowner objectives the recreational use of the property could prove to be an avenue for personal enjoyment or for generating income. An evaluation of your property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

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SOIL TYPES

Cn

The Commerce 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 loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly 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 moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Sa

The Sharkey component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on backswamps. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Sb

The Sharkey component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on backswamps. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Sr

The Sharkey component makes up 60 percent of the map unit. Slopes are 0 to 2 percent. This component is on backswamps. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The Dowling component makes up 20 percent of the map unit. Slopes are 0 to 2 percent.

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This component is on depressions. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Da

The Dowling component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

STRATA

Strata 1

Strata Description

Strata 1: Stands 3,4,5,7,12

Acres: 387.74

These are mature, well stocked stands of red oak, sweetgum and hickory approximately 74 years of age. These stands are currently in the hardwood sawtimber product class.

Strata Recommendations

These stands will be managed to a 70 year rotation. Stands 5 and 12 will be managed in-part as a riparian buffer along the stream and will be included in future harvest activities in accordance with Mississippi's Best Management Practices. During this time frame, management activities will include any necessary to protect the stands from fire and invasive or destructive plants and insects. Future harvest / regeneration activities will focus on maintaining the current species composition to keep forest health and value at a maximum.

Activity Recommendations

Harvest

Stands 7, 5 and 12 total 138 acres scheduled for a harvest operation in 2013. This will be a thinning operation to allow sunlight to reach the forest floor by removing undesirable species and trees that exhibit poor quality, poor form or disease. The result of this activity will be a residual stand of high quality, high value trees to act as

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a seed source. Once natural regeneration has been established, typically within 5-7 years, the seed trees will be removed. These stands are currently scheduled for a final harvest in 2018.

Harvest

Stands 5, 7, and 12 total 138 acres scheduled for a seed tree removal (final harvest) in 2018. Existing natural regeneration will first be assessed to determine if size and quantity are sufficient to fully occupy the site following a final harvest operation.

Strata 2

Strata Description

Strata 2: Stands 9,10,11

Acres: 86.51

These are 13 year old stands of predominantly red oak, ash and hickory species currently stocked at approximately 650 trees per acre. These stands are currently in the hardwood reproduction product class.

Strata Recommendations

These stands will be managed to a 70 year rotation. During this time frame, management activities will include any necessary to protect the stands from fire and invasive or destructive plants and insects. Future harvest / regeneration activities will focus on maintaining the current species composition to keep forest health and value at a maximum.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

This refers to the 16th section property boundary. These property lines are maintained by the Mississippi Forestry Commission, but may occasionally need to be surveyed by a professional if boundaries are uncertain or if timber harvests are involved.

Line Recommendations

Section boundaries will be maintained on a 5 year rotation. Trees on the section boundary are marked with orange paint. Boundary lines will not be marked across agricultural land. This section is scheduled for boundary line maintenance in the years 2012, and 2017.

Activity Recommendations

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Property Activities

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

S16-T12N-R6W



S16-T12N-R6W

Sharkey
2012 to 2021
642.39 Acres



S16-T12N-R6W




Property

 Property

Category 1: Stands


 Sawtimber
 Reproduction

Category 3: Non-Forest Stands

 Non-Forest

MFC Basemap

County Boundary

 County Boundary

Quadrangle Grid

 USGS Quad


PLS Townships

 PLS Townships

Survey Districts

 District 2


Blockgroup (Census 2000)

 Blockgroup (Census 2000)


Block (Census 2000)

 Block (Census 2000)

Tract/BNA (Census 2000)

 Tract/BNA (Census 2000)

US/State Highways

 State Highway

School Sections

 School Sections

Public School Districts

 SHARKEY-ISSAQUENA CON SCH DIST

US Congressional District

 US Cong Dist #2


MS Senate

 22


MS House

 54
 51

Perennial Streams

 Perennial Streams

Intermittent Streams

 Intermittent Streams



Hydrologic Units (Basins)

 BOGUE PHALIA RIVER

Historic Forest Boundary

 Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress)

MS Forest Habitat

 YAZOO BASIN DRYLANDS
 MISCELLANEOUS ALLUVIAL FLOODPLAINS

Physiographic Region

 Delta

Soil Associations

 sharkey-tunica-dundee

Surface Geology

 ALLUVIUM

MFC Districts

 MFC Districts

MFC Dispatch Units

 MFC Dispatch Units

MS Outline

 MS Outline

Stand Activity Summary for
 South Delta School District
 16 12N 6W

Filters Applied: County: Sharkey
 Client Class: School Trust Land
 District: Capital District
 Client: South Delta School Distric
 STR: 16 12N 6W
 Activity:
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2013						
16 12N 6W	1	5	Harvest, Mechanical, Thin, Machine, Misc Hardwood	77	\$2,695.00	\$40,876.22
16 12N 6W	1	7	Harvest, Mechanical, Thin, Machine, Misc Hardwood	7	\$245.00	\$3,535.00
16 12N 6W	1	12	Harvest, Mechanical, Thin, Machine, Misc Hardwood	54	\$1,890.00	\$23,976.00
Yearly Totals				138	\$4,830.00	\$68,387.22
2018						
16 12N 6W	1	5	Harvest, Mechanical, Final, Machine, Misc Red Oak	77	\$2,695.00	\$47,740.00
16 12N 6W	1	7	Harvest, Mechanical, Final, Machine, Misc Red Oak	7	\$245.00	\$4,340.00
16 12N 6W	1	12	Harvest, Mechanical, Final, Machine, Misc Red Oak	54	\$1,890.00	\$33,480.00
Yearly Totals				138	\$4,830.00	\$85,560.00
Grand Totals				276	\$9,660.00	\$153,947.22

Property Activities Report

Filters Applied: County: Sharkey
 Client Class: School Trust Land
 District: Capital District
 Client: South Delta School Distric
 STR: 16 12N 6W
 Year: 2012 Through 2021

Client Name	Plan Year	STR	Act. Name	Method	Practice	Application	Est. Cost	Act. Object	Est. Miles
South Delta School District									
2012									
16 12N 6W									
Property Activities									
				Maintain	Paint	Hand	\$1,481.73	Property Boundary	4.009
Totals							\$1,481.73		4.009
Summary for 'PlanYear' = 2012									
Totals							\$1,481.73		4.009
2017									
16 12N 6W									
Property Activities									
				Maintain	Paint	Hand	\$1,081.66	Property Boundary	4.009
Totals							\$1,081.66		4.009
Summary for 'PlanYear' = 2017									
Totals							\$1,081.66		4.009
Summary for South Delta School District									
Totals							\$2,563.39		8.018
Grand Totals							\$2,563.39		8.018