



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: 15-9N-9W

TABLE OF CONTENTS

LANDOWNER INFORMATION	3
FORESTER INFORMATION	3
DISCLAIMER	3
INTRODUCTION	3
OBJECTIVES	4
PROPERTY DESCRIPTION	4
GENERAL PROPERTY RECOMMENDATIONS	5
SOIL TYPES	7
STRATA	7
OTHER PLAN ACTIVITIES	8
PLAN MAP	10
STRATA ACTIVITY SCHEDULE	11

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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: Issaquena Total Acres: 2448 Latitude: -91.12 Longitude: 32.61
Section: 51 Township: 19W Range: 13E

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 1865 acres of bottomland hardwood timber. All forested acres are currently in the hardwood sawtimber product class. Major species on this section include pecan, sugarberry, cottonwood, and green ash. This section also contains 583 non-forested acres.

Water Resources

The Mississippi River creates the southern boundary of this section. Many other sloughs and low-lying areas exist on this section. Forests along the river 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

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

adverse effects on the soil. Refer to the SOIL TYPES section of this plan for a description of the soils identified for this property.

Archeological and Cultural Resources

The old Mississippi River levee runs east to west across the north end of the section.

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

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

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

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

SOIL TYPES

Af

Generated brief soil descriptions are created for major soil components. The Alluvial land is a miscellaneous area. Loblolly Site Index = 93.

Be

This soil has no description

W

Generated brief soil descriptions are created for major soil components. The Water area is a miscellaneous area.

STRATA

Strata 1

Strata Description

Strata 1: Stands 1,2,3,7,12,18,19,21,22,23,24,25,26,27,28,29,30

Acres: 1865

These are mature, well stocked stands of pecan, sugarberry, elm and green ash approximately 89 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. 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 converting the current species composition to an oak-hickory forest type to optimize forest health, wildlife, and economic value. Stands 7 and 30 will be managed in-part as riparian buffers along the Mississippi River.

Activity Recommendations

Harvest

Stand 29 is 113 acres scheduled for a harvest operation in 2018. 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 a seed source. Once natural regeneration has been established, typically within 5-7 years, the seed trees will be removed.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Harvest

Stand 21 is 128 acres currently scheduled for a seed tree removal (final harvest) in 2015. 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.

Harvest

Stand 2 is 125 acres scheduled for a harvest operation in 2012. 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 a seed source. Once natural regeneration has been established, typically within 5-7 years, the seed trees will be removed.

Harvest

Stand 18 is 59 acres scheduled for a final harvest in 2012. The focus of this harvest operation will be replacing the existing species composition with an oak-hickory stand type in order to improve the wildlife and economic values of the forest. This activity will be in conjunction with the thinning operation on stand number 2.

Regeneration

On stand number 18 (59 acres), a combination of nuttall oak, willow oak and green ash seedlings at a rate totaling 436 trees per acre (10' X 10') will be hand planted in 2013. A survival check will be conducted in the Fall of 2014 to ensure adequate survival and stocking of the stand.

Harvest

Stand 2 is 125 acres scheduled for a seed tree removal (final harvest) in 2017. 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.

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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 2014, and 2019.

Activity Recommendations

Property Activities

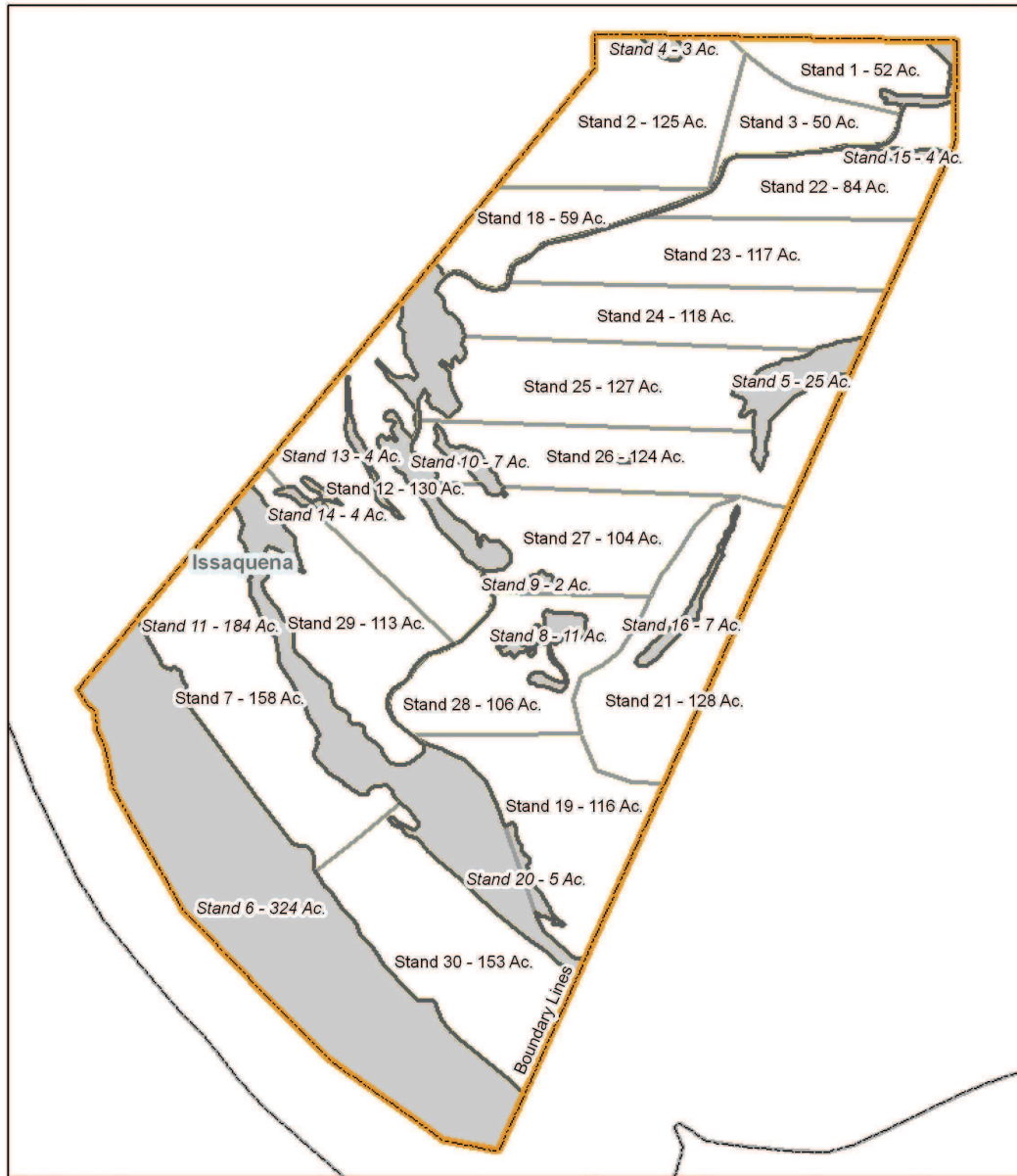
Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

S15-T9N-R9W

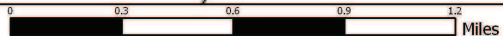


S15-T9N-R9W

Issaquena
2012 to 2021
2447.53 Acres



(11/02/2011)



S15-T9N-R9W



Property

 Property

Category 1: Stands

 Sawtimber

Category 3: Non-Forest Stands

 Non-Forest

Boundary Lines

 Property

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)

School Sections

 School Sections

Public School Districts

 SHARKEY-ISSAQUENA CON SCH DIST

US Congressional District

 US Cong Dist #2

MS Senate

 23

MS House

 54


Mississippi River

 Mississippi River

Major River

 Major River

Perennial Streams

 Perennial Streams

Hydrologic Units (Basins)

 MS RIVER ABOVE VICKSBURG

Water Bodies

 Water Bodies

Historic Forest Boundary

 Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress)


MS Forest Habitat

 MISCELLANEOUS ALLUVIAL FLOODPLAINS

Physiographic Region

 Delta

Soil Associations

 commerce-robinsonville-crevasse

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
 15 19W 13E

Filters Applied: County: Issaquena
 Client Class: School Trust Land
 District: Capital District
 Client: South Delta School Distric
 STR: 15 19W 13E
 Activity:
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012						
15 19W 13E	1	2	Harvest, Mechanical, Thin, Machine, Sweet Pecan	125	\$4,375.00	\$151,125.00
15 19W 13E	1	18	Harvest, Mechanical, Final, Machine, Misc Hardwood	59	\$1,770.00	\$44,014.00
Yearly Totals				184	\$6,145.00	\$195,139.00
2013						
15 19W 13E	1	18	Regeneration, Artificial, Plant, Hand, Misc Red Oak	59	\$885.00	\$0.00
Yearly Totals				59	\$885.00	\$0.00
2015						
15 19W 13E	1	21	Harvest, Mechanical, Final, Machine, Cottonwood	128	\$4,480.00	\$96,000.00
Yearly Totals				128	\$4,480.00	\$96,000.00
2017						
15 19W 13E	1	2	Harvest, Mechanical, Final, Machine, Sweet Pecan	125	\$4,375.00	\$144,375.00
Yearly Totals				125	\$4,375.00	\$144,375.00
2018						
15 19W 13E	1	29	Harvest, Mechanical, Thin, Machine, Misc Hardwood	113	\$3,955.00	\$52,658.00
Yearly Totals				113	\$3,955.00	\$52,658.00
Grand Totals				609	\$19,840.00	\$488,172.00

Property Activities Report

Filters Applied: County: Issaquena
 Client Class: School Trust Land
 District: Capital District
 Client: South Delta School Distric
 STR: 15 19W 13E
 Year: 2012 Through 2021

Client Name	Plan Year	STR	Act. Name	Method	Practice	Application	Est. Cost	Act. Object	Est. Miles
South Delta School District									
2014									
15 19W 13E									
Property Activities									
				Maintain	Paint	Hand	\$2,280.15	Property Boundary	8.451
Totals							\$2,280.15		8.451
Summary for 'PlanYear' = 2014									
Totals							\$2,280.15		8.451
2019									
15 19W 13E									
Property Activities									
				Maintain	Paint	Hand	\$2,280.15	Property Boundary	8.451
Totals							\$2,280.15		8.451
Summary for 'PlanYear' = 2019									
Totals							\$2,280.15		8.451
Summary for South Delta School District									
Totals							\$4,560.29		16.902
Grand Totals							\$4,560.29		16.902