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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Benoit School District

Prepared By:  
Cheryl Arnold  
Ms. Forestry Commission

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-15

Plan Type:  
Stewardship / Stewardship

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

**Property Name: S16-T20N-R8W**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Benoit School District  
Mailing Address: Box 189  
City, State, Zip: Benoit, MS 38725  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-742-3287  
Fax Number: 662-742-3149  
E-mail Address: bculley@benoit.k12.ms.us  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Cheryl Arnold , Service Forester  
Forester Number: 01662  
Organization: Ms. Forestry Commission  
Street Address: P.O. Box 1646  
148 N. Edison St.  
City, State, Zip: Greenville, MS 38702  
Contact Numbers: Office Number: 662-332-3358  
Fax Number:  
E-mail Address: carnold@mfc.state.ms.us

**PROPERTY LOCATION**

County: Bolivar    Total Acres: 641    Latitude: -91.03    Longitude: 33.58  
Section: 16    Township: 20N    Range: 8W

**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**

*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 South Western Bolivar County on highway 450 next to Delta and Pine land Monsanto Seed Company. This section is located approximately three miles South East of Scott, Ms. It is bordered on all sides by agricultural land and is only accessible by farm turn rows. There are several bayous that run through it as well as Deer Creek. It contains 135.78 acres of forest land, 461.85 acres of agricultural land, 11.79 acres of paved road, and 31.21 acres of drain ditches and water.

*Water Resources*

Intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices. Deer Creek snakes through the southwestern corner of the section but doesn't affect the forest land. East Branch which comes off of Deer Creek runs through the section at a Northeastern angle and runs along the southern border of stand #1. Straight Bayou runs from the West to the East through Stand # 11.

*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. If any should ever be detected on the property, special management objectives would be implemented to protect the species.

*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

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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: Dowling Clay (Dc).

*Archeological and Cultural Resources*

No archeological or cultural resources were discovered during a reconnaissance of the property. However, if any of these sensitive areas should ever be discovered on the property, special management strategies would be implemented to protect and preserve them. These areas can include churches, old cemeteries, indian mounds, old home sites, and areas of historical significance.

## **GENERAL PROPERTY RECOMMENDATIONS**

*Forest Protection*

A healthy and 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*.

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**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 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

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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.

## **SOIL TYPES**

*Soil Description*

Dowling Clay is a dark colored, poorly drained soil consisting of firm clay throughout and is faintly mottled at depths below about 4 inches. It occupies depressions or abandoned channels of streams usually in association with sharkey clay. After each rain, it receives water from the surrounding slopes and remains wet longer than most soils.

## **STANDS**

*Stand Sub-Merchantable (S#1)*

*Stand Description*

This is a 17 year old bottomland hardwood stand that contains 56.28 acres. It was harvested in 1997 and replanted in 1998 with Oak seedlings at a rate of 200 per acre. It currently contains a basal area of 11 square feet per acre and 22 trees per acre according to data. There is a drainage that runs along the southern border of this stand. Species include Ash, Elm, Sugarberry, and a variety of Oaks.

*Stand Recommendations*

These young bottomland hardwood stands should be left alone for the next ten years to grow. They should be monitored for health, insect and disease, and fire purposes.

*Stand Sub-Merchantable (S#11)*

*Stand Description*

This is a 17 year old bottomland hardwood stand that contains 79.50 acres. It was harvested in 1997 and replanted in 1998 with Oak seedlings at a rate of 200 per acre. It currently contains a basal area of 11 square feet per acre and 22 trees per acre according to data. There is a drainage that runs east to west through the stand, but it doesn't hold water year round. Species present include Elm, Green Ash, Sugarberry and some variety of Oaks.

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Stand Recommendations

These young bottomland hardwood stands should be left alone for the next ten years to grow. They should be monitored for health, insect and disease, and fire purposes.

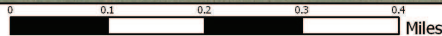




**16-20N-8W**  
Benoit School District  
2012-2021  
640.64 Acres



(01/09/2012)





16-20N-8W Benoit School District

Property

Property (1)

Category 1: Stands

Sub-Merchantable (2)

Category 3: Non-Forest Stands

Non-Forest (9)

MFC Basemap

County Boundary

County Boundary (1)

Quadrangle Grid

USGS Quad (1)

PLS Townships

PLS Townships (1)

Survey Districts

District 2 (1)

Blockgroup (Census 2000)

Blockgroup (Census 2000) (1)

Block (Census 2000)

Block (Census 2000) (7)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (1)

County Roads

County Roads (1)

3 Digit Highway

3 Digit Highway (1)

School Sections

School Sections (1)

Public School Districts

BOLIVAR CON SCHOOL DISTRICT #2 (1)

US Congressional District

US Cong Dist #2 (1)

MS Senate

12 (1)

MS House

29 (1)

Perennial Streams

Perennial Streams (1)

Intermittent Streams

Intermittent Streams (4)

Hydrologic Units (Basins)

DEER CREEK - STEELE BAYOU (1)

Historic Forest Boundary

Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress) (1)

MS Forest Habitat

YAZOO BASIN DRYLANDS (1)

YAZOO BASIN WETLANDS (1)

Physiographic Region

Delta (1)

Soil Associations

sharkey-tunica-dundee (1)

forestdale-dundee-sharkey (1)

Surface Geology

ALLUVIUM (1)

MFC Districts

MFC Districts (1)

MFC Dispatch Units

MFC Dispatch Units (1)

MS Outline

MS Outline (1)

Stand Activity Schedule for  
 Benoit School District  
 16 20N 8W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
		Yearly Totals	0	\$0.00	\$0.00
		<b>Grand Totals</b>	<b>0</b>	<b>\$0.00</b>	<b>\$0.00</b>