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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Quitman County BOE

Prepared By:  
Drew Stafford  
Ms Forestry Commission

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-16

Plan Type:  
Stewardship / Stewardship

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

**Property Name: S16, T26N, R1W**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Quitman County BOE  
Mailing Address: Drawer E  
City, State, Zip: Marks, MS 38646  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-326-5451  
Fax Number: 662-326-3694  
E-mail Address: bhopson@qcsd.k12.ms.us  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Drew Stafford , Service Forester  
Forester Number: 12345  
Organization: Ms Forestry Commission  
Street Address: 108 Bethlehem Rd  
City, State, Zip: Batesville, MS 38606  
Contact Numbers: Office Number: 662-563-3824  
Fax Number: 662-563-2247  
E-mail Address: dstafford@mfc.state.ms.us

**PROPERTY LOCATION**

County: Quitman    Total Acres: 660    Latitude: -90.3    Longitude: 34.12  
Section: 16    Township: 26N    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. 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

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.

**PROPERTY DESCRIPTION**

*General Property Information*

This section is located in the south central portion of Quitman County approximately one mile east of Highway 3 at Longstreet community. It also joins O'Keefe WMA on the west. This section consists of 659.71 acres, of which 286 acres are forested and 375 acres are in agriculture.

The forested area consists of 132 acres of bottomland hardwood sawtimber that was shelterwood cut in 2011 and will be planted in 2012. There are 145 acres of submerchantable hardwood species planted into Cherrybark and Nuttall oak. There are also 9 acres that line the property to the south and catches runoff.

The section will be inspected annually to assess the overall condition of the stands, roads, and firelanes. Maintenance to the section will be done as needed.

*Water Resources*

No perennial water resources were identified during a reconnaissance of the property. However, 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.

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*Threatened and Endangered Species*

No threatened and endangered species were identified during reconnaissance and evaluation of your property. However, if threatened and endangered species are identified on the property, special management measures will be applied immediately to protect those species.

*Archeological and Cultural Resources*

No archeological or cultural resources were identified during reconnaissance of the property. However, if archeological or cultural resources are discovered on the property, special management measures will be applied immediately in order to preserve these sensitive areas.

*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:

## **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.

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### 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 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.

### *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.

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*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.

**SOIL TYPES**

*Fe*

The Forestdale component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on natural levees. 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 high. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

*Ae*

The Alligator component makes up 80 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 not 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.

**STRATA**

*Strata 1*

Strata Description

Total = 141 acres

Stand 1 = 9 acres, Stand 2 = 63 acres, Stand 6 = 55 acres, Stand 7 = 4 acres, &

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Stand 8 = 10 acres

These stands consist of bottomland hardwoods that a shelterwood harvest began on in 2011. The estimated year of origin for the overstory in these stands is 1943, making the stands 69 years old in 2012. The species composition of these stands is mostly Nuttall Oak, Green Ash, and Elm regenerated naturally. The residual stands were cut back to 50 trees per acre at a basal area of approximately 55 square feet. The terrain is flat with a site index of 90 feet at 50 years for Nuttall Oak. This strata was harvested as a shelterwood in 2011. In 2012 it will be supplemental planted into Cherrybark Oak, Swamp Chestnut Oak, Nuttall Oak to improve species composition. In late 2016 harvesting of the overstory will be planned depending on sufficient stocking levels.

**Strata Recommendations**

In FY 2012 the strata will be artificially regenerated by hand planting to supplement the natural regeneration that is present.

**Activity Recommendations**

**Regeneration**

In FY 2012 these stands will be artificially regenerated by planting. It will be planted on a 10'x 10' spacing for 436 seedlings per acre. Species planted will be specific for the site. Timing for the planting will be January 1 through March 31 in 2012.

**Harvest**

In 2016 all remaining merchantable overstory trees will be removed as part of a shelterwood begun in 2011.

*Strata 2*

**Strata Description**

Total = 145 acres

Stand 3 = 52 acres, Stand 4 = 27 acres, Stand 5 = 44 acres, & Stand 10 = 22 acres

These stands consist of bottomland hardwoods that are submerchantable. The year of origin for these stands is 2003, making the stands 9 years old in 2012. The species composition of these stands is Cherrybark Oak and Swamp Chestnut Oak artificially regenerated by planting. The stands are adequately stocked with 384 trees per acre at 12 square feet of basal area. The terrain is flat with a site index of 90 feet at 50 years. This strata was harvested in 2002 and chainsaw site prepared. It was hand planted in 2003.



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Strata Recommendations

Monitor conditions within the strata throughout the current 10-year plan period. There are no planned recommendations in this strata for the duration of the 10-year plan period because of the age and size of the trees in this strata.



# Quitman County BOE - S16 T26N 1W

Little Parchman Section  
2012 to 2021  
660.31 Acres




(01/12/2012)



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## Property


 Property (1)

## Category 1: Stands


 Sawtimber (5)

 Sub-Merchantable (4)

## Category 3: Non-Forest Stands


 Non-Forest (2)

## Management Compartment


 Harvest (4)

## MFC Basemap


### County Boundary

 County Boundary (1)


### Quadrangle Grid

 USGS Quad (2)


### PLS Townships

 PLS Townships (1)


### Survey Districts

 District 2 (1)


### Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)

### Block (Census 2000)

 Block (Census 2000) (6)

### Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)

### County Roads

 County Roads (1)


### Natural Gas Lines

 Natural Gas Lines (2)


### School Sections

 School Sections (1)

### Public School Districts

 QUITMAN COUNTY SCHOOL DISTRICT (1)

### US Congressional District

 US Cong Dist #2 (1)


### MS Senate

 11 (1)


### MS House

 30 (1)

### Perennial Streams

 Perennial Streams (2)

### Intermittent Streams

 Intermittent Streams (1)

### Hydrologic Units (Basins)

 TALLAHATCHIE RIVER (1)


### Historic Forest Boundary

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


### MS Forest Habitat


 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

### Physiographic Region


 Delta (1)

### Soil Associations


 dundee-forestdale-dubbs (1)

 alligator-sharkey-dundee (1)

### Surface Geology

 ALLUVIUM (1)

### Wildlife Management Areas

 Wildlife Management Areas (1)


### MFC Districts

 MFC Districts (1)

### MFC Dispatch Units

 MFC Dispatch Units (1)

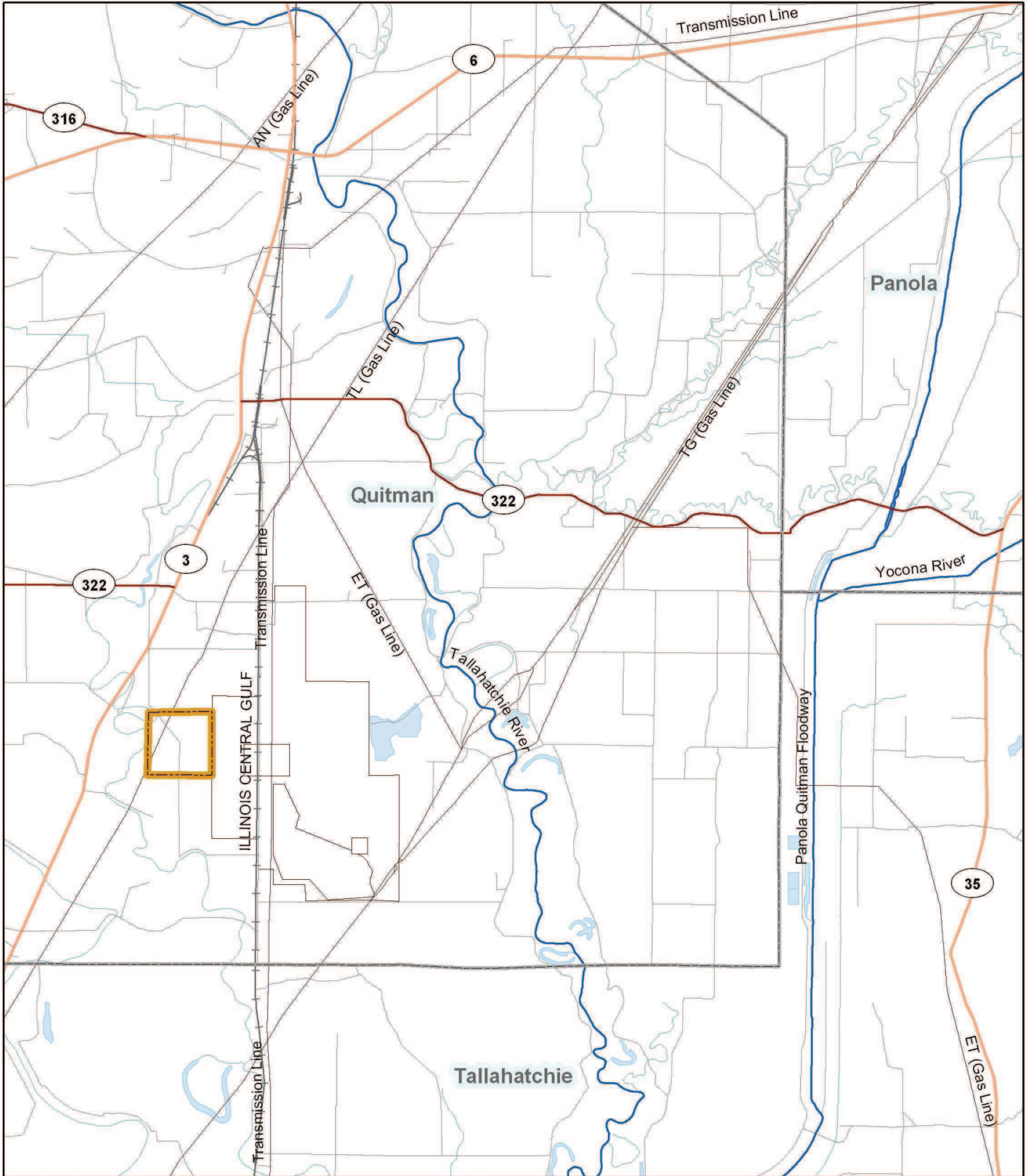
### MS Outline

 MS Outline (1)



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Little Parchman Section  
2012 to 2021  
660.31 Acres



(01/12/2012)



Stand Activity Schedule for  
Quitman County BOE  
16 26N 1W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>					
1	1	Regeneration, Artificial, Plant, Hand, Nuttall Oak	9	\$1,575.00	\$0.00
1	2	Regeneration, Artificial, Plant, Hand, Nuttall Oak	63	\$11,025.00	\$0.00
1	6	Regeneration, Artificial, Plant, Hand, Nuttall Oak	55	\$9,679.25	\$0.00
1	7	Regeneration, Artificial, Plant, Hand, Nuttall Oak	4	\$656.25	\$0.00
1	8	Regeneration, Artificial, Plant, Hand, Nuttall Oak	10	\$1,718.50	\$0.00
Yearly Totals			141	\$24,654.00	\$0.00
<b>2015</b>					
1	1	Harvest, Mechanical, Final, Machine, Misc Hardwood	9	\$299.25	\$4,104.00
1	2	Harvest, Mechanical, Final, Machine, Misc Hardwood	63	\$2,205.00	\$30,240.00
1	6	Harvest, Mechanical, Final, Machine, Misc Hardwood	55	\$1,935.85	\$26,548.80
1	7	Harvest, Mechanical, Final, Machine, Misc Hardwood	4	\$131.25	\$1,800.00
1	8	Harvest, Mechanical, Final, Machine, Misc Hardwood	10	\$343.70	\$4,713.60
Yearly Totals			140	\$4,915.05	\$67,406.40
<b>Grand Totals</b>			<b>281</b>	<b>\$29,569.05</b>	<b>\$67,406.40</b>