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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Humphreys County Schools

Prepared By:  
Wesley James Howard  
MS Forestry Commission

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-13

Plan Type:  
Stewardship / Stewardship

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

**Property Name: S16-T13N-R4W**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Humphreys County Schools  
Mailing Address: 401 4th st  
City, State, Zip: Belzoni, MS 39038  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-247-6000  
Fax Number: 662-247-6004  
  
E-mail Address:  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Wesley James Howard , Service Forester  
Forester Number: 02521  
Organization: MS Forestry Commission  
Street Address: 9600 Hwy 17  
City, State, Zip: Carrollton, MS 38917  
Contact Numbers: Office Number: 662-237-6732  
Fax Number:  
E-mail Address: whoward@mfc.state.ms.us

**PROPERTY LOCATION**

County: Humphreys    Total Acres: 638    Latitude: -90.61    Longitude: 32.97  
Section: 16    Township: 13N    Range: 4W

**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**

*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..

*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*

Sectionn16\_T13N\_R4W is +/- 638 acres of agriculture fields, farm structures, and bottomland hardwood forest. The forested consists of 8 acres. Timber consists of mature bottomland hardwood sawtimber. Dominate species being willow oak and nuttall oak. The section is located 1 mile west of Louise, Mississippi county roads 169, 209, and 218 run throughout the section. Property's topography is low but the section is well drained.

*Water Resources*

An intermittent drainage ditch system runs throughout the section. The section drains into the Yazoo River watershed system. Mississippi's Best Management Practices such as stream side management zones will be applied to protect water sources from contamination.

*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 this property.

If any threatened and /or endangered species are discovered, immediate management procedures will be applied to protect these sensitive natural resources for future generations.

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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. Mississippi Best Management Practices will be implemented to prevent any adverse effects.

*Archeological and Cultural Resources*

The section contains several farm structures. These structures will be protected during management activities.

## **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.

**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.

*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

Currently boundaries are not clearly marked on the section. Boundaries should be surveyed and clearly marked especially on the West boundary of the section. This part of the section is still in timber and meets another landowner's property. Boundaries will need to be established before any management activities such as harvesting can take place. Once the boundaries have been surveyed the MFC will maintain these boundaries.

## *Water Quality Protection*

The objective of the landowner is to protect, conserve, and enhance all water resources and drainages on or transecting the property. This objective can be met by implementing Mississippi's Best Management Practices in all aspects of management practices. Protection for water resources must be given in order to maintain the water quality. This protection will be done by the use of stream side management zones (SMZ's) as well as following all Mississippi Best Management Practices.

## *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.

## *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**

4  
4

The Alligator component makes up 100 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 very 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 pounded. 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.

## **STRATA**

*Strata 1*

**Strata Description**

This 8 acre strata is made up of stands 2 and 3. This strata was approximately established in 1947. This strata is a fully stocked bottomland hardwood mixed forest with willow oak, nuttall oak, overcup oak, and sweetgum are the dominate species found. This strata has a basal area of 177 and 156 trees per acre. This strata contains 23 tons of pulpwood and 73 tons of sawtimber per acre.

**Strata Recommendations**

This stand only contains 8 acres of harvestable timber. This could pose a problem in finding a logger that would be interested in harvesting. This stand will be added to another timber sale that occurs in the area to become more appealing to be harvested rather than seeing if the stand would be harvested as an individual sale. The strata is

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scheduled to harvest in 2012. Section 16\_T14N\_R4W is scheduled to be harvested in 2012 as well. The section is 6 miles north of th section. The market will play a vital role as well if this stand will be able to sale.

**Activity Recommendations**

Stands 2 and 3 will be scheduled for a final harvest in 2012. After harvest has been completed it will be reforested using multiple hardwood species seedlings planted on 12' X 12' (302ac) spacing. It will be managed on a 60 - 80 year rotation. Until harvesting this strata will provide habitat for native wildlife species. After harvest this strata will grow new vegetation providing new food sources and cover for native wildlife species.

**Harvest**

Final harvest is scheduled for year 2012.

**Regeneration**

After final harvest will be replanted on a 12' X 12' spacing (302 seedlings per acre) using mixed bottomland hardwood seedling species. The species planted will be determined by site and soil type. A survival check will be conducted one year after planting.

*Strata 2 (Non-Forest)*

**Strata Description**

This 630 acre strata consists of stand #1. Stand #1 consists agricultural land and a farm structure for equipment storage. The Humphreys County School board leases this land for agricultural production.

**Strata Recommendations**

Strata 2 is leased out by the Humphreys County School board for agriculture production. The agriculture lease provides an annual income of \$50,100. The agriculture lease provides the highest and best use for this stand.

**Strata Activities**

During the time frame of the plan monitoring will be conducted periodically to insure no damaging activities are occurring that could impact other stands on the section. No activities are planed for the time period of the plan.



Section 16-T13N-4W



**Section 16-T13N-4W**

Humphreys County, Mississippi  
2012 to 2021  
638.23 Acres




(12/13/2011)

0 0.1 0.2 0.3 0.4 Miles


# Section16 T13N R4W




## Property

 Property (1)


## Category 1: Stands

 Sawtimber (2)

## Category 3: Non-Forest Stands


 Non-Forest (1)

## Structures


 Tractor Shed (1)

# 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) (2)


## Block (Census 2000)

 Block (Census 2000) (5)


## Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)

## County Roads

 County Roads (8)


## School Sections

 School Sections (1)

## Public School Districts

 HUMPHREYS COUNTY SCHOOL DIST (1)

## US Congressional District

 US Cong Dist #2 (1)


## MS Senate

 22 (1)

## MS House

 51 (1)

## Intermittent Streams

 Intermittent Streams (3)


## Hydrologic Units (Basins)

 BOGUE PHALIA RIVER (1)

## Historic Forest Boundary

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

## MS Forest Habitat


 YAZOO BASIN DRYLANDS (1)


 MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

## Physiographic Region

 Delta (1)

## Soil Associations


 alligator-sharkey-forestdale (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  
Humphreys County Schools  
16 13N 4W

| Strata              | Stand | Activity   | Acre      | Est. Cost         | Est. Revenue       |
|---------------------|-------|--|-----------|-------------------|--------------------|
| <b>2012</b>         |       |  |           |                   |                    |
| 1                   | 2     | Harvest, Mechanical, Final, Machine, Misc Hardwood   | 6         | \$72.00           | \$9,036.00         |
| 1                   | 3     | Harvest, Mechanical, Final, Machine, Misc Hardwood   | 2         | \$21.36           | \$2,680.68         |
| Yearly Totals       |       |  | 8         | \$93.36           | \$11,716.68        |
| <b>2013</b>         |       |  |           |                   |                    |
| 1                   | 2     | Regeneration, Artificial, Plant, Hand, Misc Hardwood | 6         | \$790.00          | \$0.00             |
| 1                   | 3     | Regeneration, Artificial, Plant, Hand, Misc Hardwood | 2         | \$222.50          | \$0.00             |
| Yearly Totals       |       |  | 8         | \$1,012.50        | \$0.00             |
| <b>Grand Totals</b> |       |  | <b>16</b> | <b>\$1,105.86</b> | <b>\$11,716.68</b> |

Stand Activity Schedule for  
Humphreys County Schools  
16 13N 4W

| Strata      | Stand | Activity   | Acre                | Est.<br>Cost | Est.<br>Revenue |                    |
|-------------|-------|--|---------------------|--------------|-----------------|--------------------|
| <b>2012</b> |       |  |                     |              |                 |                    |
| 1           | 2     | Harvest, Mechanical, Final, Machine, Misc Hardwood | 6                   | \$72.00      | \$9,036.00      |                    |
| 1           | 3     | Harvest, Mechanical, Final, Machine, Misc Hardwood | 2                   | \$21.36      | \$2,680.68      |                    |
|             |       |  | Yearly Totals       | 8            | \$93.36         | \$11,716.68        |
|             |       |  | <b>Grand Totals</b> | <b>8</b>     | <b>\$93.36</b>  | <b>\$11,716.68</b> |