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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Covington County Board of Education

Prepared By:  
Robert J Scoggin  
Mississippi Forestry Comm.

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-01-24

Plan Type:  
Stewardship / Stewardship

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

**Property Name: Section 16 Township 08 North Range 17 West**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Organization: COVINGTON COUNTY BOARD OF EDUCATION  
Name: Covington County Board of Education  
Mailing Address: P.O.Box 1269  
City, State, Zip: Collins, MS 39428  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 601-765-8274  
Fax Number:  
E-mail Address: bdotsom@cov.k12.ms.us  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Robert J Scoggin , Assistant District Forester  
Forester Number: 01594  
Organization: Mississippi Forestry Comm.  
Street Address: P.O. Box 348  
2705 Hwy, 15  
City, State, Zip: Bay Springs, MS 39422  
Contact Numbers: Office Number: 601-764-2711  
Fax Number:  
E-mail Address: rscoggin@mfc.state.ms.us

**PROPERTY LOCATION**

County: Covington    Total Acres: 635    Latitude: -89.71    Longitude: 31.66  
Section: 16    Township: 8N    Range: 17W

**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 temporarily 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 primary objective of placing sixteenth section lands under a forest management program is to produce as much revenue as possible for the Covington County School Board. These efforts will be directed by regulating the forest resource 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 consists of one full section of land containing 640 acres. It is located in the Lone Star Community of Covington County. The primary access for this section is Kelly Road off Highway 84, west of Collins. Access to this property is good due to several paved and forested roads.

This section is approximately seventy (70) percent forested with 126 acres in pasture. It is predominately Loblolly Pine plantation ranging from two(2) to twenty-two(22) years of age.

Hurricane Katrina damaged one hundred acres that has been salvaged and replanted.

*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 the reconnaissance and evaluation of your property.

*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: Ora Fine Sandy Loam.

*Archeological or Cultural Resources:*

No Archeological or Cultural resources were identified during a reconnaissance of the property. However, if Archeological or Cultural resources are discovered anytime on the property special managements measures will be applied immediately in order preserve these sensitive areas.

## **GENERAL PROPERTY RECOMMENDATIONS**

*Forest Protection*

A healthy vigorous growing forest is the best defense to wildfire or an attack from a variety of forest insects, plants and pathogens. Forest roads and permanent firelanes have been installed to protect the forest from destructive wildfires.

*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:

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- 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. The Mississippi Forestry Commission will establish and maintain the boundary lines every three years or as needed.

**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

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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.

## **SOIL TYPES**

### *Ora Fine Sandy Loam*

The Ora series consists of nearly level to strongly sloping moderately well drained soils. These soils are strongly acidic, contain a small amount of organic matter, and are low in natural fertility. The available water capacity is low. Ora soils occur with the Ruston, Savannah, and Pheba soils and are widely distributed throughout the county. the native

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vegetation consists of pines and hardwoods in mixed stands with and understory of shrubs, vines and huckleberry. This section is a natural pine site with site index of 78-96 for Loblolly Pine.

## **STRATA**

### *Strata 4*

#### Strata Description

Strata 4:

Sub-Merchantable:

These stands are classified as sub-merchantable and are a mixture of pine plantations ranging from 9 to 13 years old.

Stands 70, 14, 18, 29, 33, 50, 43, 56, 52, 53, 59

Strata 4 Total Acres: 207.14

#### Strata Recommendations

These stands are a mixture of pine plantations ranging from 9 to 13 years old. They will be evaluated for first thinning at age 15.

### *Strata 5*

#### Strata Description

Strata 5: Pulpwood

These stands are classified as pulpwood and should be evaluated for first time thinnings.

Stands 72, 27,

Strata 5 Total Acres: 43.26

#### Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time management activities as thinnings, mid-rotation release, and prescribed burning will be used to keep stands at full production.

#### Activity Recommendations

##### Harvest 2014

A first thinning is scheduled in 2014 that will focus on removing poor quality, diseased, or poor formed trees. Residual stocking will be 75 square feet per acre.



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Harvest 2019

A second thinning is scheduled in 2019 that will focus on improving the stand in order to leave the best crop trees available. Residual stocking will be 75 square feet per acre.

*Strata 7*

Strata Description

Strata 7; Sawtimber

This stand is a mature stand of pine sawtimber with adequate size and stocking.

Stands: 64

Strata 7 Total Acres: 67.82

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time management activities as thinnings, mid-rotation release, and prescribed burning will be used to keep stands at full production.

Activity Recommendations

Harvest 2015

This is a mature stand that will be clearcut in 2015.

Site Preparation 2016

After all timber has been removed from the tract, site preparation in the form of aerial chemical herbicide will be applied to kill all competing vegetation. This will be contracted after the peak of the growing season.

Regeneration 2017

The site will be planted with genetically superior Loblolly Pine Seedlings at a rate of 691 per acre.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

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Line Description

Generally, these lines consist of permanent boundary lines that delineate the section boundary. They are usually well established and readily identified by a pushed and or painted line.

Line Recommendations

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property. These lines are usually maintained by painting, pushing or disking. They are generally pushed or disked on a yearly basis and re-painted every 3 to 5 years.

Activity Recommendations

Property Activities 2014

This line will be repainted with Orange Boundary Line paint in 2014.

Property Activities 2018

This line will be repainted with Orange Boundary Line paint in 2018.

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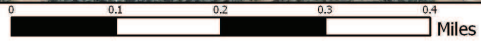


## Section 16 Township 8 North Range 17 West

Dan Easterling  
2012 to 2021  
635.29 Acres




(01/24/2012)








## Section 16 Township 8 North Range 17 West


### Property

 Property (1)


### Category 1: Stands

-  Sub-Merchantable (11)
-  Pulpwood (10)
-  Sawtimber (1)

### Category 3: Non-Forest Stands


 Non-Forest (4)

### Boundary Lines


 Property (1)

## MFC Basemap


### County Boundary

 County Boundary (1)

### Quadrangle Grid

 USGS Quad (1)


### PLS Townships

 PLS Townships (1)

### Survey Districts

 District 5 (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 (5)


### School Sections

 School Sections (1)

### Public School Districts

 COVINGTON COUNTY SCHOOLS (1)

### US Congressional District

 US Cong Dist #3 (1)

### MS Senate


 35 (1)

### MS House


 91 (1)

 90 (1)

### Perennial Streams

 Perennial Streams (1)


### Intermittent Streams

 Intermittent Streams (1)


### Hydrologic Units (Basins)

 UPPER LEAF RIVER (1)

### Historic Forest Boundary

 Longleaf Pine with Loblolly Pine-Slash Pine (1)


### MS Forest Habitat


 FRAGIPAN LOAM HILLS (1)

### Physiographic Region

 SOUTH CENTRAL HILLS (1)


### Soil Associations

 ora-smithdale-ruston (1)

 providence-bude-gillsburg (1)

### Surface Geology

 CITRONELLE (1)

 PASCAGOULA/HATTIESBURG (1)


### MFC Districts

 MFC Districts (1)

### MFC Dispatch Units

 MFC Dispatch Units (1)

### MS Outline

 MS Outline (1)

# Stand Activity Summary for

16 8N 17W

**Filters Applied:** County: Covington  
 Client Class:  
 District:  
 Client:  
 STR: 16 8N 17W  
 Activity:  
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2014</b>						
16 8N 17W	5	16	Harvest, Mechanical, 1st Thin, Machine, Loblolly	10	\$350.00	\$3,858.00
16 8N 17W	5	19	Harvest, Mechanical, 1st Thin, Machine, Loblolly	33	\$1,140.30	\$12,569.36
16 8N 17W	5	21	Harvest, Mechanical, 1st Thin, Machine, Loblolly	29	\$1,004.85	\$11,076.32
16 8N 17W	5	27	Harvest, Mechanical, 1st Thin, Machine, Loblolly	30	\$1,050.00	\$11,574.00
16 8N 17W	5	44	Harvest, Mechanical, 1st Thin, Machine, Loblolly	14	\$484.05	\$5,335.61
16 8N 17W	5	61	Harvest, Mechanical, 1st Thin, Machine, Loblolly	19	\$657.65	\$7,249.18
16 8N 17W	5	63	Harvest, Mechanical, 1st Thin, Machine, Loblolly	11	\$388.15	\$4,278.52
16 8N 17W	5	66	Harvest, Mechanical, 1st Thin, Machine, Loblolly	66	\$2,303.35	\$25,389.50
16 8N 17W	5	68	Harvest, Mechanical, 1st Thin, Machine, Loblolly	10	\$349.30	\$3,850.28
16 8N 17W	5	72	Harvest, Mechanical, 1st Thin, Machine, Loblolly	13	\$464.10	\$5,115.71
<b>Yearly Totals</b>				<b>234</b>	<b>\$8,191.75</b>	<b>\$90,296.49</b>
<b>2015</b>						
16 8N 17W	7	64	Harvest, Mechanical, Regeneration, Machine, Loblolly	68	\$2,380.00	\$112,308.80
<b>Yearly Totals</b>				<b>68</b>	<b>\$2,380.00</b>	<b>\$112,308.80</b>
<b>2016</b>						
16 8N 17W	7	64	Site Preparation, Chemical, Broadcast, Aerial, Woody	68	\$6,442.90	\$0.00
<b>Yearly Totals</b>				<b>68</b>	<b>\$6,442.90</b>	<b>\$0.00</b>
<b>2017</b>						

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
16 8N 17W	7	64	Regeneration, Artificial, Plant, Hand, Loblolly	68	\$7,460.20	\$0.00	
				Yearly Totals	68	\$7,460.20	\$0.00
<b>2019</b>							
16 8N 17W	5	16	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	10	\$350.00	\$7,092.00	
16 8N 17W	5	19	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	33	\$1,140.30	\$23,105.74	
16 8N 17W	5	21	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	29	\$1,004.85	\$20,361.13	
16 8N 17W	5	27	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	30	\$1,050.00	\$21,276.00	
16 8N 17W	5	44	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	14	\$484.05	\$9,808.24	
16 8N 17W	5	61	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	19	\$657.65	\$13,325.87	
16 8N 17W	5	63	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	11	\$388.15	\$7,865.03	
16 8N 17W	5	66	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	66	\$2,303.35	\$46,672.45	
16 8N 17W	5	68	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	10	\$349.30	\$7,077.82	
16 8N 17W	5	72	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	13	\$464.10	\$9,403.99	
				Yearly Totals	234	\$8,191.75	\$165,988.26
				<b>Grand Totals</b>	<b>672</b>	<b>\$32,666.60</b>	<b>\$368,593.55</b>