



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
HARRISON COUNTY BOE

Prepared By:  
Randy Wilson  
MS Forestry Commission

Time Period Covered by This Plan:  
2011 - 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: 16\_6\_13**

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**LANDOWNER INFORMATION**

Name: HARRISON COUNTY BOE  
Mailing Address: 11072 Highway 49  
City, State, Zip: Gulfport, MS 39503  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 228-539-6503  
Fax Number:  
E-mail Address: jtrosclair@harrison.k12.ms.us  
Social Security Number (optional): 646000430

**FORESTER INFORMATION**

Name: Randy Wilson , Service Forester  
Forester Number: 00000  
Organization: MS Forestry Commission  
Street Address: 14601 County Farm Rd.  
City, State, Zip: Gulfport, MS 39503  
Contact Numbers: Office Number: 228-831-3359  
Fax Number:  
E-mail Address: rwilson@mfc.state.ms.us

**PROPERTY LOCATION**

County: Harrison    Total Acres: 652    Latitude: -89.3    Longitude: 30.52  
Section: 16    Township: 6S    Range: 13W

**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 composed of 263 acres of mixed hardwood and slash pine around the Wolf River and other perennial drains. There are 179 acres of naturally occurring longleaf and slash sawtimber. There are 138 acres in sub-merchantable, machine planted slash. Thirty-eight acres of chip and saw also occur on this section.

There are 27 acres of non-forest on this section which includes a cemetery, Cemetery Road and the Wolf River. There is also a 9 acre recreational lease along the Wolf River.

The section can be accessed by Cemetery Road off of Highway 53.

*Water Resources*

The Wolf River and one other perennial water resource were identified during reconnaissance of the property. The river and drain 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 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

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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.

*Archeological/Cultural Resources*

There is an 18 acre community cemetery on this section. Management practices will consider the cemetery during all activities adjacent to the cemetery.

## **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**

Boundary lines are scheduled to be maintained on this section during 2014 and 2019.

**Note:** Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are

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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.

*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*

Part of this section is leased for recreational/hunting purposes. The management activities scheduled adjacent to this lease will consider these leaseholders but these alternative uses should not interfere with approved silvicultural practices.

## **SOIL TYPES**

*Harleston*

The Harleston component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on stream terraces. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90.

*Poarch*

The Poarch component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on ridges. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high.

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Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 45 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 73. Slash Site Index = 90.

*Eustis*

The Eustis component makes up 42 percent of the map unit. Slopes are 8 to 17 percent. This component is on hillslopes. The parent material consists of Sandy Marine Deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The Poarch component makes up 33 percent of the map unit. Slopes are 8 to 12 percent. This component is on hillslopes. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 45 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

*Ruston*

The Ruston component makes up 95 percent of the map unit. Slopes are 2 to 5 percent. This component is on coastal plains. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 91. Longleaf Site Index = 76. Slash Site Index = 91.

*Smithton*

The Smithton component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy 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 moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. Loblolly Site Index = 86.

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*Nahunta*

The Nahunta component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy and silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 2 percent. This soil does not meet hydric criteria. Loblolly Site Index = 95.

*Nugent*

The Nugent component makes up 55 percent of the map unit. Slopes are 0 to 2 percent. This component is on natural levees. The parent material consists of sandy alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 57 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The Jena component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on natural levees. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

*Escambia*

The Escambia component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 80. Slash Site Index = 90.

*Saucier*

The Saucier component makes up 45 percent of the map unit. Slopes are 5 to 12 percent. This component is on coastal plains. The parent material consists of loamy over clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 39



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inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The Smithton component makes up 20 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy 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 moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, 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 2 (Stands 1, 4 and 6)*

#### Strata Description

This strata is composed of naturally occurring longleaf and slash pines in the sawtimber size class. The basal area ranges from 21 to 65 and the trees per acre range from 30 to 84 depending on the stand.

#### Strata Recommendations

Stands 1, 4, and 6 (180 acres) are scheduled to receive a prescribed fire in 2013. These stands are scheduled to receive a final harvest in 2015. Following this harvest, the stands are scheduled to be aerially sprayed with herbicide, site prep burned and replanted with containerized longleaf a rate of 605 trees per acre in 2016.

### *Strata 3 (Stands 9 and 11)*

#### Strata Description

This strata is composed of 38 acres of 22 year old slash pine that has been severely damaged from wildfires over the last decade. The stocking within Stand 9 (19 acres) is 35 basal area with 165 trees per acre. Stand 11 varies widely due to more intense wildfires and on average does not reach the low stocking of Stand 9.

#### Strata Recommendations

Stand 9 is scheduled to receive a prescribed fire in 2013.

Stands 9 and 11 are scheduled to receive a final harvest in 2015 along with Stands 1, 4 and 6. Following this harvest, Stands 9 and 11 are scheduled to receive chemical site preparation, a site prep burn and reforested by hand with containerized longleaf.

### *Strata 4 (Stands 7, 10 and 12)*

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Strata Description

This strata is composed of 139 acres of eleven year old planted slash pine. This strata has had several wildfires sweep across it over those eleven years. The stocking within this strata varies depending on the intensity and size of the wildfires.

Basal area ranges from 56 in Stand 7 (96 acres) to 93 in Stands 10 (16 acres) and 12 (27 acres). Trees per acre range from 202 in Stand 7 to 325 trees per acre in Stands 10 and 12.

Strata Recommendations

Stand 7 is scheduled to receive a prescribed fire in 2013 and 2020 to reduce the fuel load and reduce the affects to the plantation from future wildfires.

Stands 10 and 12 are scheduled to receive a prescribed fire in 2015.

No thinnings are scheduled during this management period due to the low basal area within Stand 7 and small acreage of Stands 10 and 12. This stands will be addressed early in the next management period at which time a final harvest may be scheduled.

*Strata 5 (Stands 2, 3, and 5)*

Strata Description

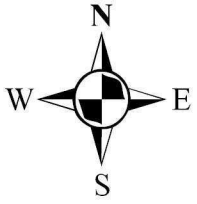
This strata is composed of 263 acres of mixed hardwoods and pine along the Wolf River and the perennial drain located within this section. This strata has a basal area of 80 with 160 trees per acre.

Stand 5 (63 acres) will be managed as a Streamside Management Zone (SMZ). In 2016, when Stands 1, 4 and 6 are harvested, the forester in charge will mark the boundaries of Stand 5 to remain in compliance with Mississippi's Best Management Practices for SMZs.

Stands 2 (47 acres) and 3 (153 acres) are in the Wolf River basin. Neither of these stands are scheduled for harvests during this plan period. There are several drop offs in excess of 20 feet with a slope of 65% within these stands. Significant work will need to be performed prior to any harvest activities to ensure these gullies are removed from the area to be harvested. Compliance with SMZ widths will also be assured prior to harvesting. In an effort to prioritize the needs of the other stands on this section, Stands 2 and 3 will be further assessed during the next management period.

Strata Recommendations

No activities are scheduled for this strata during this management period.

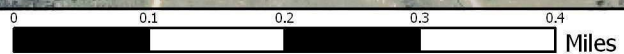


# Harrison County Board of Education

Section 16, Township 06S, Range 13W  
2011 to 2021  
640 Acres



(11/06/2012)



Stand Activity Schedule for  
HARRISON COUNTY BOE  
16 6S 13W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>					
2	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	107	\$2,675.00	\$0.00
2	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	9	\$225.00	\$0.00
2	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	71	\$1,775.00	\$0.00
3	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	19	\$475.00	\$0.00
4	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	96	\$2,400.00	\$0.00
5	5	Fire Protection, Other, Burn, Hand, Hazard Mitigation	63	\$0.00	\$0.00
<b>Yearly Totals</b>			<b>365</b>	<b>\$7,550.00</b>	<b>\$0.00</b>
<b>2015</b>					
2	1	Harvest, Mechanical, Final, Machine, Longleaf	107	\$3,745.00	\$57,782.14
2	4	Harvest, Mechanical, Final, Machine, Slash	9	\$315.00	\$4,341.78
2	6	Harvest, Mechanical, Final, Machine, Longleaf	71	\$2,485.00	\$38,341.42
3	9	Harvest, Mechanical, Final, Machine, Loblolly	19	\$665.00	\$0.00
3	11	Harvest, Mechanical, Final, Machine, Loblolly	19	\$665.00	\$1,350.14
4	10	Fire Protection, Other, Burn, Hand, Fuel Reduction	16	\$400.00	\$0.00
4	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	27	\$665.75	\$0.00
5	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	143	\$3,575.00	\$0.00
<b>Yearly Totals</b>			<b>411</b>	<b>\$12,515.75</b>	<b>\$101,815.48</b>
<b>2016</b>					
2	1	Regeneration, Artificial, Plant, Hand, Longleaf	107	\$12,840.00	\$0.00
2	1	Site Preparation, Chemical, Broadcast, Aerial, Combination	107	\$8,560.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2	1	Site Preparation, Other, Burn, Hand, Combination	107	\$2,675.00	\$0.00
2	4	Site Preparation, Other, Burn, Hand, Combination	9	\$225.00	\$0.00
2	4	Site Preparation, Chemical, Broadcast, Aerial, Combination	9	\$720.00	\$0.00
2	4	Regeneration, Artificial, Plant, Machine, Longleaf	9	\$1,080.00	\$0.00
2	6	Regeneration, Artificial, Plant, Hand, Longleaf	71	\$8,520.00	\$0.00
2	6	Site Preparation, Chemical, Broadcast, Aerial, Combination	71	\$5,680.00	\$0.00
2	6	Site Preparation, Other, Burn, Hand, Combination	71	\$1,775.00	\$0.00
3	9	Regeneration, Artificial, Plant, Hand, Longleaf	19	\$2,295.60	\$0.00
3	9	Site Preparation, Chemical, Broadcast, Aerial, Combination	19	\$1,520.00	\$0.00
3	9	Site Preparation, Other, Burn, Hand, Combination	19	\$475.00	\$0.00
3	11	Regeneration, Artificial, Plant, Hand, Longleaf	19	\$2,298.00	\$0.00
3	11	Site Preparation, Other, Burn, Hand, Combination	19	\$475.00	\$0.00
3	11	Site Preparation, Chemical, Broadcast, Aerial, Combination	19	\$1,520.00	\$0.00
<b>Yearly Totals</b>			<b>675</b>	<b>\$50,658.60</b>	<b>\$0.00</b>
<b>2020</b>					
3	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	19	\$478.25	\$0.00
4	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	96	\$2,398.00	\$0.00
<b>Yearly Totals</b>			<b>115</b>	<b>\$2,876.25</b>	<b>\$0.00</b>
<b>Grand Totals</b>			<b>1,566</b>	<b>\$73,600.60</b>	<b>\$101,815.48</b>