



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Hinds County BOE

Prepared By:
John Randall Giachelli
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-22

Plan Type:
Stewardship / Stewardship

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

Property Name: 16-14N-5E

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LANDOWNER INFORMATION

Organization: Hinds County Schools
Name: Hinds County BOE
Mailing Address: 13192 Hwy 18
City, State, Zip: Raymond, MS 39154
Country: United States of America
Contact Numbers: Home Number: 601-857-5222
Office Number:
Fax Number:
E-mail Address: shandley@hinds.k12.ms.us
Social Security Number (optional):

FORESTER INFORMATION

Name: John Randall Giachelli , Service Forester
Forester Number: 02503
Organization: MFC
Street Address: 3139 Hwy 468
City, State, Zip: Pearl, MS 39208
Contact Numbers: Office Number: 601-420-6018
Fax Number:
E-mail Address: rgiachelli@mfc.state.ms.us

PROPERTY LOCATION

County: Hinds Total Acres: 642 Latitude: -90.71 Longitude: 32.18
Section: 16 Township: 14N Range: 5E

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

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.

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 the western part of Hinds County. Access to this section can be reached off of Charlie Brown Road. The property consists of Loblolly Pine plantations, Mixed hardwood-pine stands and large streamside management zones. All stands are well stocked and healthy. Non-forested areas include 13 acres of woods roads and wildlife food plots.

Water Resources

One perennial water resource (No Name) was identified during a reconnaissance of the property. All perennial, 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.

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

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adverse effects on the soil. The following soils are identified for this property: Riedtown and Memphis

Archaeological and Cultural Resources

A hunting camp is located on the Northeast 1/4 of the property. This area was recently final harvested and shade trees were left for aesthetics. Many streams and drains are located on the section and streamside management zones will be left for water quality and erosion reasons.

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

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

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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 access roads and firelanes, providing openings within the forest, and leaving mast producing and den trees.

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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

Riedtown

Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium 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 high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is occasionally 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 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Memphis

Slopes are 5 to 40 percent. This component is on uplands. The parent material consists of loess 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 very high. 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 = 105.

STRATA

Strata 1

Strata Description

Strata 1 : Stands 3-6 and 11

Acres : 352

This area consists of well stocked natural pine and hardwood that is 61 years old. Parts of this area will be final harvested during this plan. The hardwood consists of Red Oak, White Oak, Poplar, Hickory, Sweetgum and miscellaneous species.

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Strata Recommendations

These stands will be managed to 65 to 75 year rotation. During this time frame management activities such as thinning from underneath to remove poor quality and overcrowded trees will be done. At the end of the rotation, a final harvest will be conducted and reforestation activities will be completed to return these stands to full production. This strata will need to begin to be harvested to prevent disease and beetle damage to the mature timber. The stands will be converted to advanced generation Loblolly Pine plantations to increase revenue.

Activity Recommendations

Harvest

Stand 4 is planned for a final harvest in 2016. This 79 acre stand will have all merchantable timber removed.

Site Preparation

This stand we be aerially sprayed with herbicide in 2017 to reduce competing vegetation.

Site Preparation

The stand will be burned to create a clean planting area in 2017.

Regeneration

The stand will be artificially regenerated with advanced generation Loblolly Pine seedlings in 2018. The seedlings will be hand planted at 622 trees per acre on a 7x10 foot spacing.

Strata 2

Strata Description

Strata 2 : Stands 1 and 2

Acres : 125

This is a young well stocked advanced generation Loblolly Pine plantation that was planted in 2011.

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production. This strata will be monitored for survival and competing competition during the life of this plan.

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Strata 3

Strata Description

Strata 3 : Stands 9 and 12

Acres : 156

This area is a Loblolly Pine plantation that was planted in 1999. Survival was not great leaving mixed hardwood pulpwood scattered throughout. A streamside management zone will become a part of this stand in the future.

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production. This strata will need to be first thinned in order to promote future growth of the stands.

Activity Recommendations

Harvest

First thinning on the strata is planned for 2013. A corridor thin will be conducted with cut rows being 15ft and leave rows 35ft.

Prescribed Burn

A cool season burn will be conducted in 2015 to reduce fuel loads and competing woody vegetation. Burning is heavily influenced by weather and may take a few years to complete large acreage.

Harvest

A second thinning of this strata is planned for 2018. The stands may need to be cut on consecutive years to lower the acreage for ease of monitoring. This will depend on the size on the streamside management zones determined during first thinning.

Prescribed Burn

The stands will be burned in 2021 to reduce fuel loads and to promote growth of wildlife browse. Burning is heavily influenced by weather and may take a few years to complete large acreage.

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OTHER PLAN ACTIVITIES

Boundary Lines

Boundary lines will be painted on a five year rotation to prevent trespassing and timber theft. This will begin in 2013.

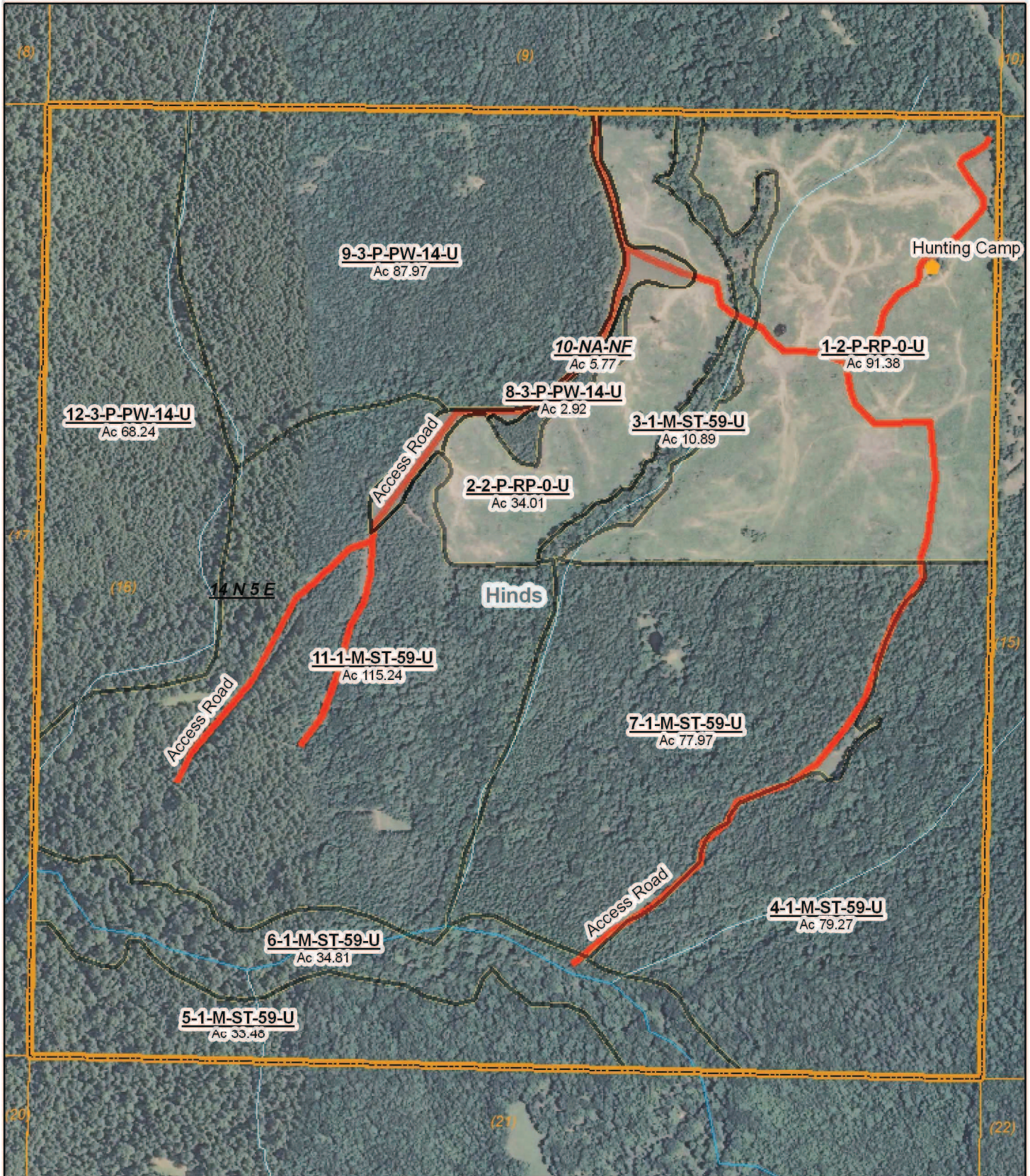


Hinds County Schools

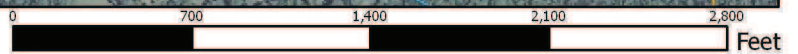
SEC. 16 TWN 14N RGE 5E

2012 to 2021

641.94 Acres



(12/09/2011)





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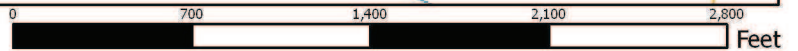
SEC. 16 TWN 14N RGE 5E

2012 to 2021

641.94 Acres




(12/09/2011)




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Property

 Property (1)


Category 1: Stands

 Reproduction (2)


 Sawtimber (6)

 Pulpwood (3)


Category 3: Non-Forest Stands

 Non-Forest (1)


Boundary Corners

 Section (1)

Structures


 Camp House (1)

Property Roads/Trails


 Access Road (4)

MFC Basemap

County Boundary

 County Boundary (1)


Quadrangle Grid

 USGS Quad (1)


PLS Townships

 PLS Townships (1)


Survey Districts

 District 4 (1)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)


Block (Census 2000)

 Block (Census 2000) (4)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


County Roads

 County Roads (1)


School Sections

 School Sections (1)

Public School Districts

 HINDS COUNTY SCHOOL DISTRICT (1)

US Congressional District

 US Cong Dist #2 (1)


MS Senate

 36 (1)


MS House

 63 (1)


Perennial Streams

 Perennial Streams (1)


Intermittent Streams

 Intermittent Streams (4)


Hydrologic Units (Basins)

 LOWER BIG BLACK RIVER (1)


Historic Forest Boundary

 Loblolly/Shortleaf Pine-Oak (1)


MS Forest Habitat

 DEEP LOESS PLAINS (1)

Physiographic Region

 LOESS HILLS (1)


Soil Associations

 memphis-natchez-collins (1)


Surface Geology

 CATAHOULA (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for
Hinds County Schools
16 14N 5E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2013					
3	8	Harvest, Mechanical, Thin, Machine, Loblolly	3	\$102.20	\$876.00
3	9	Harvest, Mechanical, Thin, Machine, Loblolly	88	\$3,080.00	\$26,400.00
3	12	Harvest, Mechanical, Thin, Machine, Loblolly	68	\$2,388.40	\$20,472.00
Yearly Totals			159	\$5,570.60	\$47,748.00
2015					
3	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$75.00	\$0.00
3	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	88	\$2,200.00	\$0.00
3	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	68	\$1,700.00	\$0.00
Yearly Totals			159	\$3,975.00	\$0.00
2016					
1	4	Harvest, Mechanical, Final, Machine, Misc Hardwood	79	\$2,765.00	\$65,728.00
Yearly Totals			79	\$2,765.00	\$65,728.00
2017					
1	4	Site Preparation, Chemical, Broadcast, Aerial, Combination	79	\$5,135.00	\$0.00
1	4	Site Preparation, Other, Burn, Hand, Combination	79	\$1,975.00	\$0.00
Yearly Totals			158	\$7,110.00	\$0.00
2018					
1	4	Regeneration, Artificial, Plant, Hand, Loblolly	79	\$6,715.00	\$0.00
3	8	Harvest, Mechanical, Thin, Machine, Loblolly	3	\$105.00	\$1,065.00
3	9	Harvest, Mechanical, Thin, Machine, Loblolly	88	\$3,080.00	\$31,240.00
3	12	Harvest, Mechanical, Thin, Machine, Loblolly	68	\$2,380.00	\$24,140.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
		Yearly Totals	238	\$12,280.00	\$56,445.00
2021					
3	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$75.00	\$0.00
3	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	88	\$2,200.00	\$0.00
3	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	68	\$1,700.00	\$0.00
		Yearly Totals	159	\$3,975.00	\$0.00
		Grand Totals	952	\$35,675.60	\$169,921.00