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: 16-4N-1E

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

TABLE OF CONTENTS

LANDOWNER INFORMATION 3
FORESTER INFORMATION 3
DISCLAIMER 3
INTRODUCTION 3
OBJECTIVES 4
PROPERTY DESCRIPTION 4
GENERAL PROPERTY RECOMMENDATIONS 5
SOIL TYPES 7
STRATA 8
OTHER PLAN ACTIVITIES 9
PLAN MAP 10
PLAN MAP 11
PLAN MAP 12
STRATA ACTIVITY SCHEDULE 13

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:	258	Latitude:	-90.2	Longitude:	32.19
Section:	16	Township:	4N	Range:	1E		

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.

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 eastern part of Hinds County along the Pearl River. Access to this section can be reached off of Hanging Moss Road. This is a low lying section that occasionally floods and decisions on the type of species to plant should be thought out accordingly to the site conditions. The property only consists of 94 acres which is made up of bottomland hardwood and 40 acres of non-forest areas. The forested acres have no activities planned at this time and should be left to grow to maturity unless future monitoring suggests otherwise.

Water Resources

The Pearl River boarders this property to the East and floods frequently. The Pearl River and all drains 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 adverse effects on the soil. The following soils are identified for this property: Bonn and Cascilla

Archaeological and Cultural Resources

This section is located on the banks of the Pearl River. The tract is mainly a wetland area that needs to be treated with care to preserve water quality.

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 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 be 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

Bonn
Slopes are 0 to 1 percent. This component is on flood plains. The parent material consists of loess deposits. Depth to a root restrictive layer, natric, is 8 to 16 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 low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The Deerford component makes up 32 percent of the map unit. Slopes are 0 to 1 percent. This component is on stream terraces. The parent material consists of loess. Depth to a root restrictive layer, natric, is 16 to 32 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 low. Shrink-swell potential is moderate. 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. This soil does not meet hydric criteria. The soil has a moderately sodic horizon within 30 inches of the soil surface.

Cascilla
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 well 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 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 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The Chenneby component makes up 31 percent of the map unit. 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 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 frequently flooded. It is not ponded. A seasonal zone of water saturation is at 21

inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

STRATA

Strata 1

Strata Description

Strata 1 : Stands 8 and 12

Acres 83

This area was final harvested in 2006 and replanted with bottomland hardwoods in 2007. With the seedlings and natural regrowth, this area is well stocked and healthy.

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. At this time no activities are planned. A reassessment in the future will determine any forestry activities needed.

Strata 2

Strata Description

Strata 2 : Stand 16

Acres : 31

This is a well stocked mature bottomland hardwood stand that acts as a streamside management zone. The timber is approximately 68 years old and intells frequent flooding.

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. No activities are needed at this time and the timber will be evaluated again at a later date.

Strata 3

Strata Description

Strata 3 : Stand 17

Acres : 117

This is a well stocked young bottomland hardwood site. The trees where planted in 1998 and are growing well.

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. There are no activities planned at this time. Future monitoring will determine any forestry activities needed.

OTHER PLAN ACTIVITIES

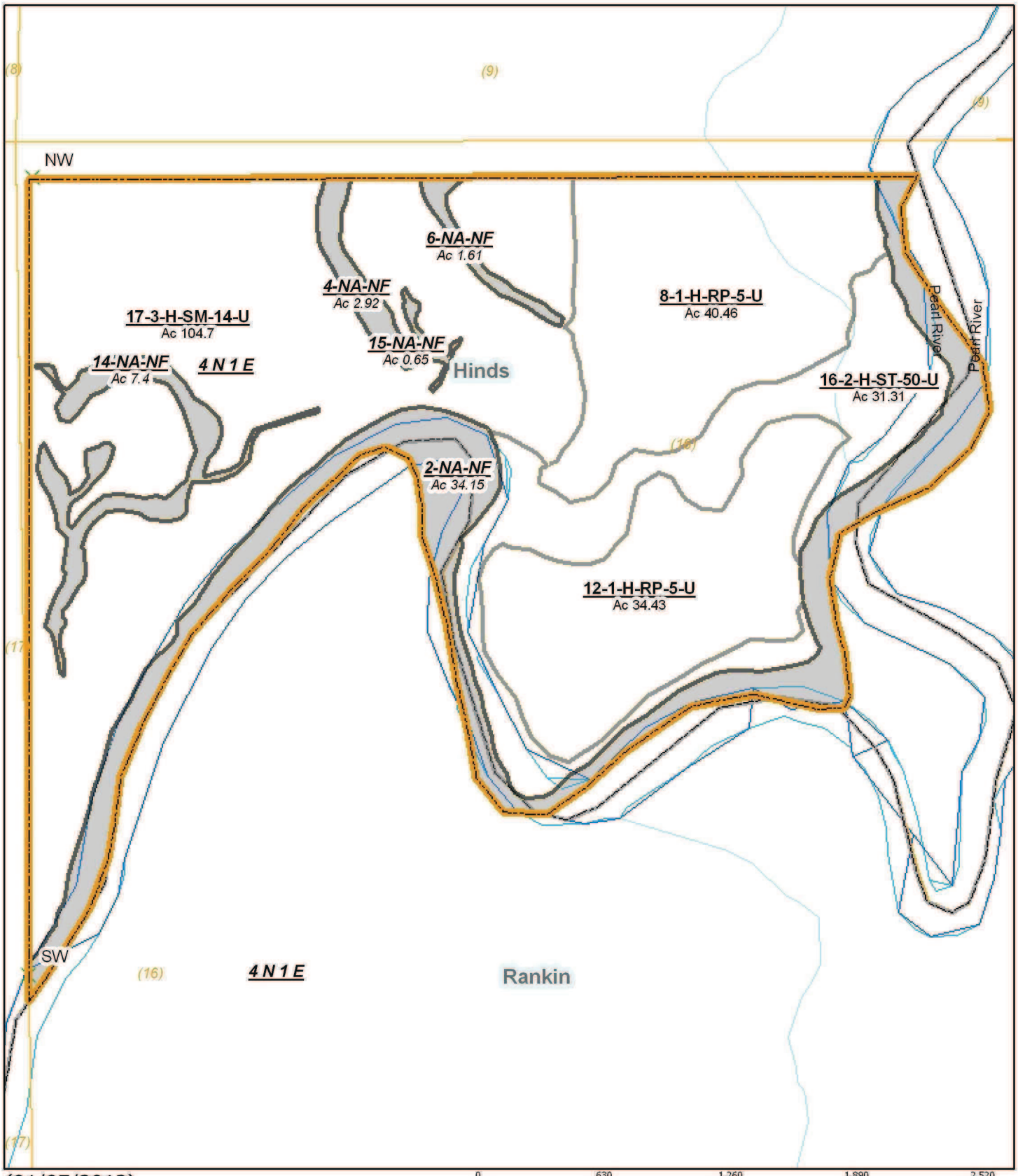
Boundary Lines

Line Description

Boundary line painting will be conducted on a five year rotation to prevent trespassing and timber theft. This will begin in 2013.

Hinds County Schools

SEC. 16 TWN 4N RGE 1E
2012 to 2021
257.63 Acres

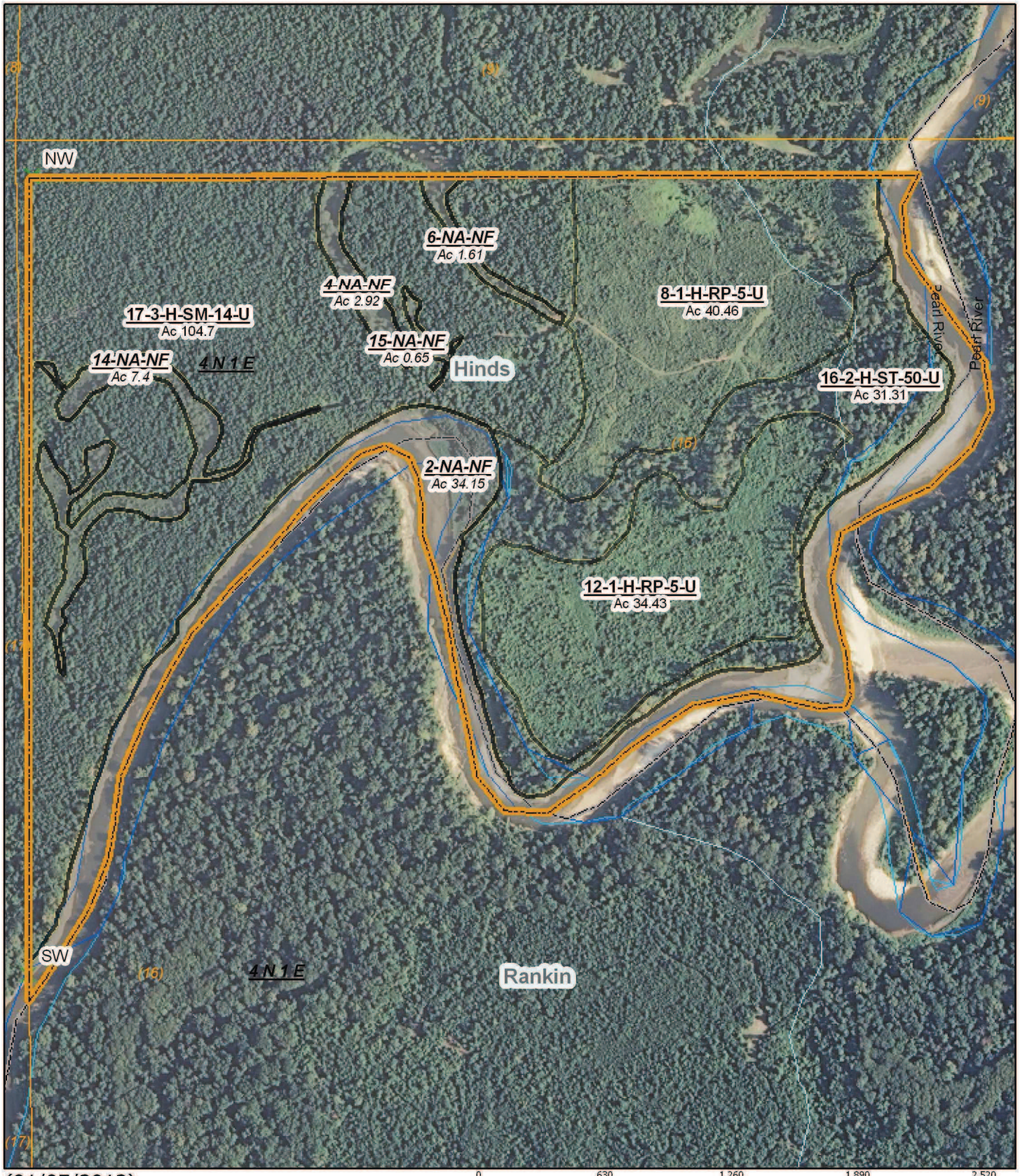


(01/05/2012)

0 630 1,260 1,890 2,520 Feet

Hinds County Schools

SEC. 16 TWN 4N RGE 1E
2012 to 2021
257.63 Acres



(01/05/2012)

Hinds County Schools

Property
- Property (1)

Category 1: Stands
- Sub-Merchantable (1)
- Reproduction (2)
- Sawtimber (1)

Category 3: Non-Forest Stands
- Non-Forest (5)

Boundary Corners
- Property (1)

MFC Basemap

County Boundary
- County Boundary (2)

Quadrangle Grid
- USGS Quad (2)

PLS Townships
- PLS Townships (2)

Survey Districts
- District 2 (2)

Blockgroup (Census 2000)
- Blockgroup (Census 2000) (2)

Block (Census 2000)
- Block (Census 2000) (4)

Tract/BNA (Census 2000)
- Tract/BNA (Census 2000) (2)

School Sections
- School Sections (2)

Public School Districts
- RANKIN COUNTY SCHOOL DISTRICT (4)
- HINDS COUNTY SCHOOL DISTRICT (2)

US Congressional District
- US Cong Dist #2 (1)
- US Cong Dist #3 (1)

MS Senate
- 35 (1)
- 29 (1)

MS House
- 62 (1)
- 73 (1)

Major River
- Major River (11)

Perennial Streams
- Perennial Streams (29)

Intermittent Streams
- Intermittent Streams (1)

Hydrologic Units (Basins)
- PEARL RIVER ABOVE STRONG RIVER (2)

Historic Forest Boundary
- Loblolly/Shortleaf Pine-Oak (2)

MS Forest Habitat
- DEEP LOESS PLAINS (2)

Physiographic Region
- SOUTH CENTRAL HILLS (2)

Soil Associations
- cascilla-arkabutla-chenneby (2)

Surface Geology
- VICKSBURG/CHICKASAWHAY (5)
- FOREST HILL/RED BLUFF CLAY (11)

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 4N 1E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
		Yearly Totals	0	$0.00	$0.00
		Grand Totals	**0**	**$0.00**	**$0.00**