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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: 16-15N-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: 338 Latitude: -90.71 Longitude: 32.27
Section: 16 Township: 15N 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 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.

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

This section is located in the western part of Hinds County along the Big Black River. Access to this section can be reached off Log Haul 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 323 acres which is made up of bottomland hardwood and pine plantation with 56 acres of non-forested areas. This section has recently added a drainage system that helps keep water off of the powerline and pipeline that runs through this section. This drainage system needs to be monitored occasionally in order to make sure that it continues to drain properly.

Water Resources

The Big Black River is the western property line of this section. The Big Black River, intermittent streams and 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.

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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: Riedtown and Oaklimeter

Archaeological and Cultural Resources

There is a hunting lease on this property but no structures because of the frequent flooding issues.

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*.

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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 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

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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

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.

Oaklimeter

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 frequently flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

STRATA

Strata 1

Strata Description

Strata 1 : Stands 14, 18 and 24

Acres : 18

This is a very well stocked Loblolly Pine plantation planted in 1999. The timber is healthy and will be thinned during this plan.

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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 is in need of a first thin and will be second thinned during this plan.

Activity Recommendations

Harvest

First thinning is scheduled for 2012. A corridor select thin will be used to reduce basal area to 75sqft per acre for future stand growth.

Prescribed Burn

A prescribed burn is planned for 2013 to reduce fuel loads and woody competition.

Harvest

Second thinning is planned for 2017. A marked select thin will be used to remove poor form and diseased timber. Basal area will be reduced to 75sqft per acre.

Prescribed Burn

A prescribed burn is planned for 2019. The prescribed burn will reduce fuel levels. The burn should be done with good surrounding firelanes. A burn plan needs to be written and followed by a certified burn manager. Burning will promote browse for local wildlife.

Strata 2

Strata Description

Strata 2 : Stands 15 and 17

Acres : 7

This is a submerchantable hardwood stand planted in 1999. This strata 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. No activities will be needed during this plan.

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Strata 3

Strata Description

Strata 3 : Stands 6, 7, 10 and 22

Acres : 64

This is a strata that was planted in advanced generation Loblolly Pine seedlings in 2011. Survival was not great because of weather issues. Regeneration of Oak will make this a future mixed stand.

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. No activities will be needed during this plan.

Strata 4

Strata Description

Strata 4 : Stands 1, 2, 4, 6, 9, 12, 13 and 26

Acres : 193

This is a bottomland hardwood area that was established in 1945. The timber consists of Red Oak, Sweetgum, Elm and miscellaneous species. It is well stocked and receives frequent flooding.

Strata Recommendations

These stands will be managed as permanent SMZ's. Mature timber will be harvested without reducing crown cover below 50 %. Thinning will be completed along with adjoining timber sales.

OTHER PLAN ACTIVITIES

Boundary Lines

Boundary lines will be repainted on a five year rotation to prevent trespassing and timber theft. This will begin in 2014.

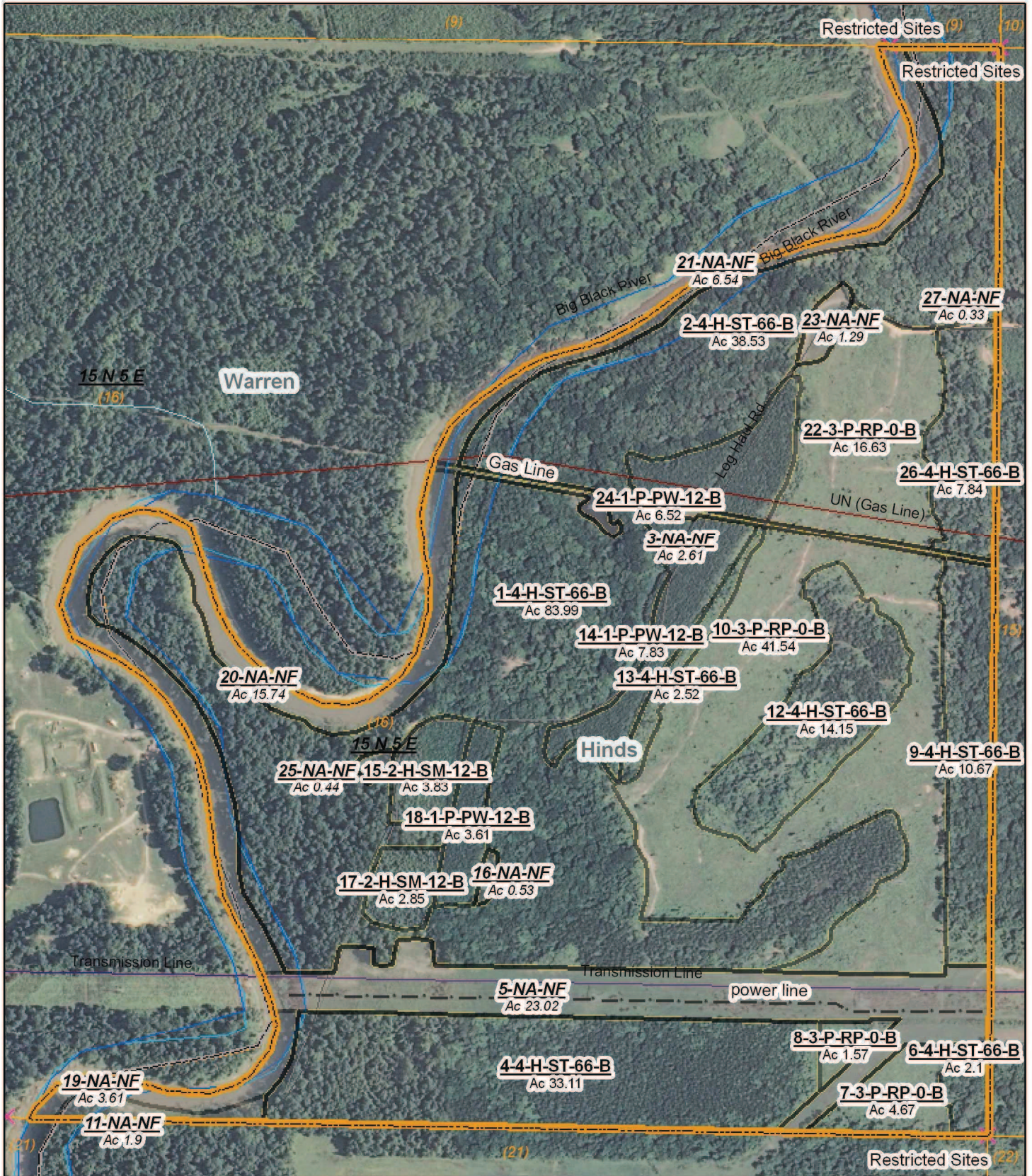


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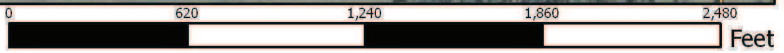
SEC. 16 TWN 15N RGE 5E

2012 to 2021

337.96 Acres



(12/09/2011)



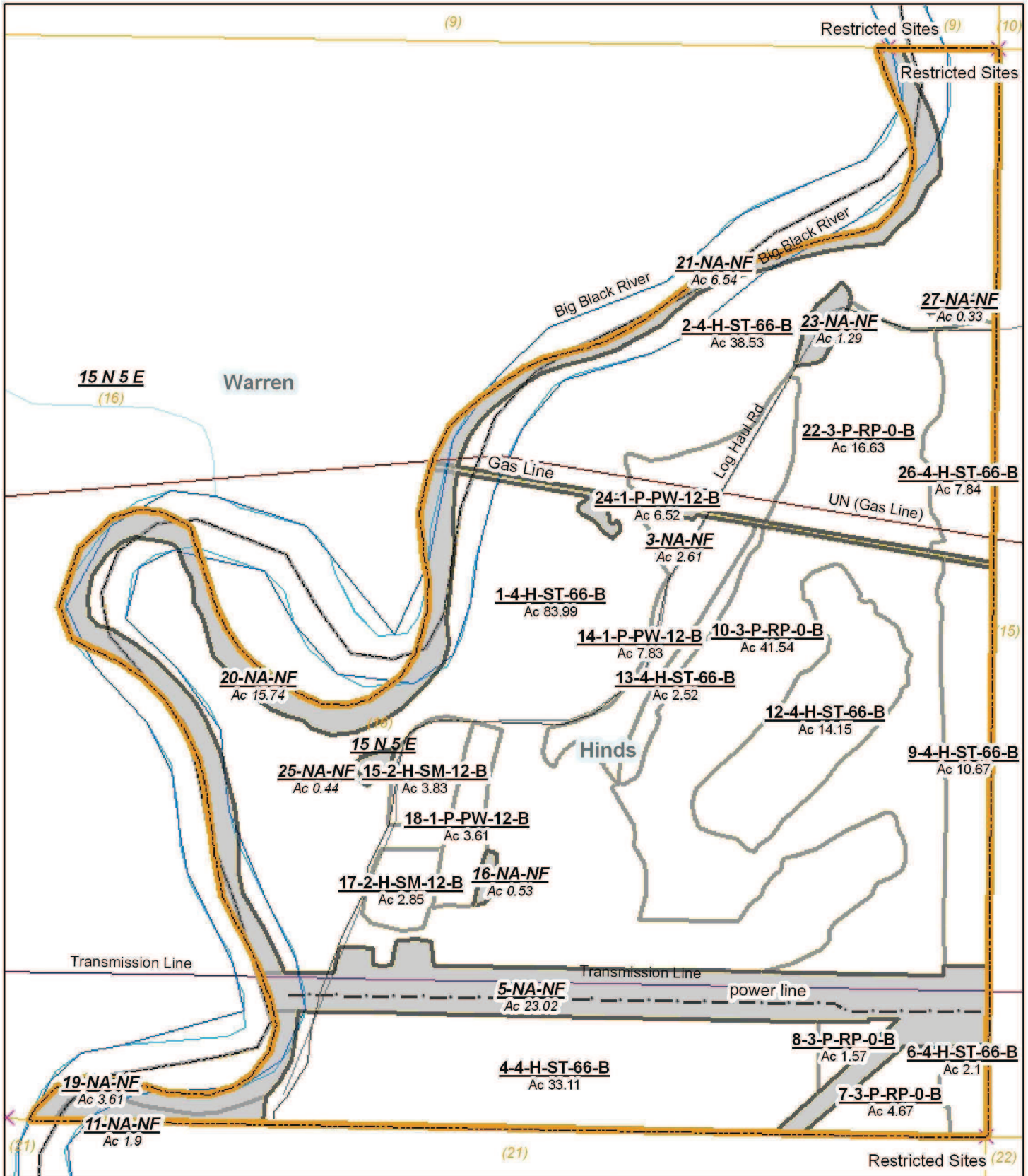


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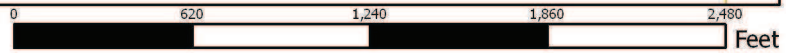
SEC. 16 TWN 15N RGE 5E

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337.96 Acres



(12/09/2011)



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Property

Property (1)

Category 1: Stands

- Sawtimber (8)
- Reproduction (4)
- Pulpwood (3)
- Sub-Merchantable (2)

Category 3: Non-Forest Stands

Non-Forest (10)

Restricted Sites

Archeology (1)

Property Roads/Trails

Access Road (1)

Utilities (Lines)

Large Electrical (1)

Gas Line (1)

MFC Basemap

County Boundary

County Boundary (2)

Quadrangle Grid

USGS Quad (2)

PLS Townships

PLS Townships (2)

Survey Districts

District 4 (2)

Blockgroup (Census 2000)

Blockgroup (Census 2000) (2)

Block (Census 2000)

Block (Census 2000) (7)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (2)

County Roads

County Roads (1)

Transmission Lines

Transmission Lines (1)

Natural Gas Lines

Natural Gas Lines (3)

School Sections

School Sections (2)

Public School Districts

HINDS COUNTY SCHOOL DISTRICT (3)

VICKSBURG-WARREN SCHOOL DIST (1)

US Congressional District

US Cong Dist #2 (2)

MS Senate

26 (1)

23 (1)

MS House

85 (1)

63 (1)

Major River

Major River (2)

Perennial Streams

Perennial Streams (88)

Hydrologic Units (Basins)

LOWER BIG BLACK RIVER (2)

Historic Forest Boundary

Loblolly/Shortleaf Pine-Oak (2)

MS Forest Habitat

DEEP LOESS PLAINS (2)

Physiographic Region

LOESS HILLS (2)

Soil Associations

oaklimer-ariel-gillsburg (2)

Surface Geology

VICKSBURG/CHICKASAWHAY (9)

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 15N 5E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	14	Harvest, Mechanical, 1st Thin, Machine, Loblolly	8	\$140.94	\$2,740.50
1	18	Harvest, Mechanical, 1st Thin, Machine, Loblolly	4	\$64.98	\$1,263.50
1	24	Harvest, Mechanical, 1st Thin, Machine, Loblolly	7	\$126.00	\$2,450.00
Yearly Totals			18	\$331.92	\$6,454.00
2013					
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	8	\$200.00	\$0.00
1	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$100.00	\$0.00
1	24	Fire Protection, Other, Burn, Hand, Fuel Reduction	7	\$175.00	\$0.00
Yearly Totals			19	\$475.00	\$0.00
2017					
1	14	Harvest, Mechanical, Thin, Machine, Loblolly	8	\$280.00	\$3,480.00
1	18	Harvest, Mechanical, Thin, Machine, Loblolly	4	\$140.00	\$1,740.00
1	24	Harvest, Mechanical, Thin, Machine, Loblolly	7	\$245.00	\$3,045.00
Yearly Totals			19	\$665.00	\$8,265.00
2019					
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	8	\$200.00	\$0.00
1	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$100.00	\$0.00
1	24	Fire Protection, Other, Burn, Hand, Fuel Reduction	7	\$175.00	\$0.00
Yearly Totals			19	\$475.00	\$0.00
Grand Totals			75	\$1,946.92	\$14,719.00