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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: 30-5N-2W**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**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: 653    Latitude: -90.44    Longitude: 32.25  
Section: 30    Township: 5N    Range: 2W

**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 property consists of mainly 500 non-forested acres. A school is located on the center of the property and can be accessed Highway 18. The 153 forested acres on the tract include mixed hardwood sawtimber and pine plantation. Aesthetics will be the major concern here and the timber will be managed accordingly. The sawtimber is mainly included in streamside management zones and may need select cut after future monitoring. The pine plantations will be grown to maturity for aesthetic reasons. There are no planned activities at this time because of the logging sensitivity on this section.

*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.

*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: Grenada, Memphis, Loring and Riedtown

*Archaeological and Cultural Resources*

With Raymond High School and two major roads crossing on the section, forestry activities will be held to a minimum. The forested acres are in place to prevent erosion in the underlying streams. Timber will be grown to maturity to give a pleasing background to the school.

## **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**

*Grenada*

Slopes are 0 to 2 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer, fragipan, is 18 to 36 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 23 inches during January, February, March, April. 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 = 95. Slash Site Index = 95.

*Memphis*

Slopes are 8 to 17 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 6e. This soil does not meet hydric criteria. Loblolly Site Index = 105.

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*Loring*

Slopes are 2 to 17 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer, fragipan, is 14 to 35 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. Loblolly Site Index = 95.

*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.

**STRATA**

*Strata 1*

Strata Description

Strata 1 : Stands 1, 3, 4 and 9

Acres : 114

This is a natural pine and mixed hardwood stand that is approximately 50 years old. The area is well stocked and is interlaced with steams and acts as an aesthetic buffer for Highway 18 and Raymond High School.

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 planned at this time. A harvest may be needed in case of storm or bug damage.

*Strata 2*

Strata Description

Strata 2 : Stands 6 and 7

Acres : 27



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This is a well stocked Loblolly Pine plantation that is in the sawtimber stage. The strata is approximately 22 years old and is 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. This strata will be monitored during this plan and will need a harvest when financial maturity is at a peak. No activities are planned at this time.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

**Line Description**

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

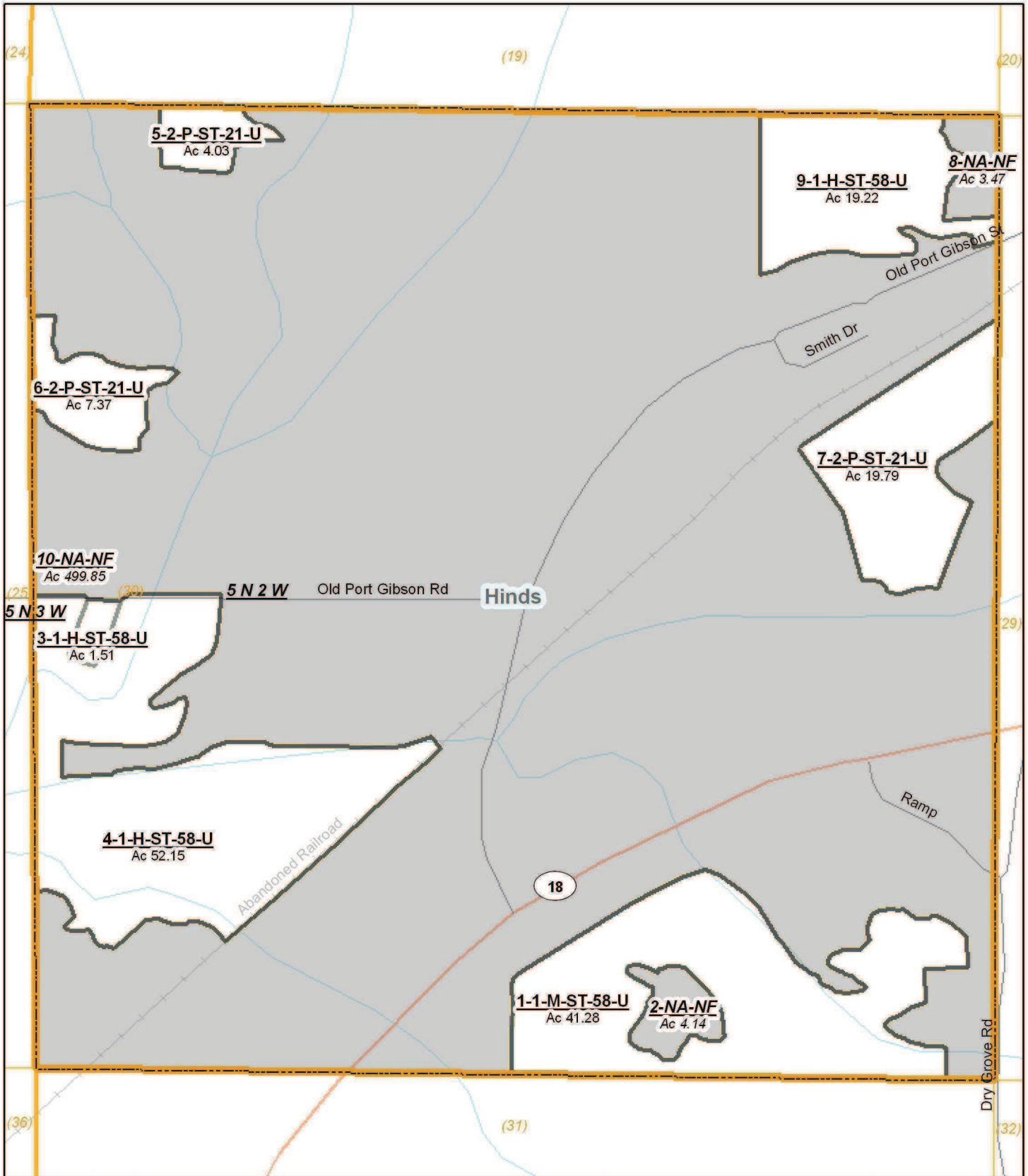


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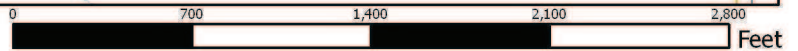
SEC. 30 TWN 5N RGE 2W

2012 to 2021

652.82 Acres



(01/04/2012)



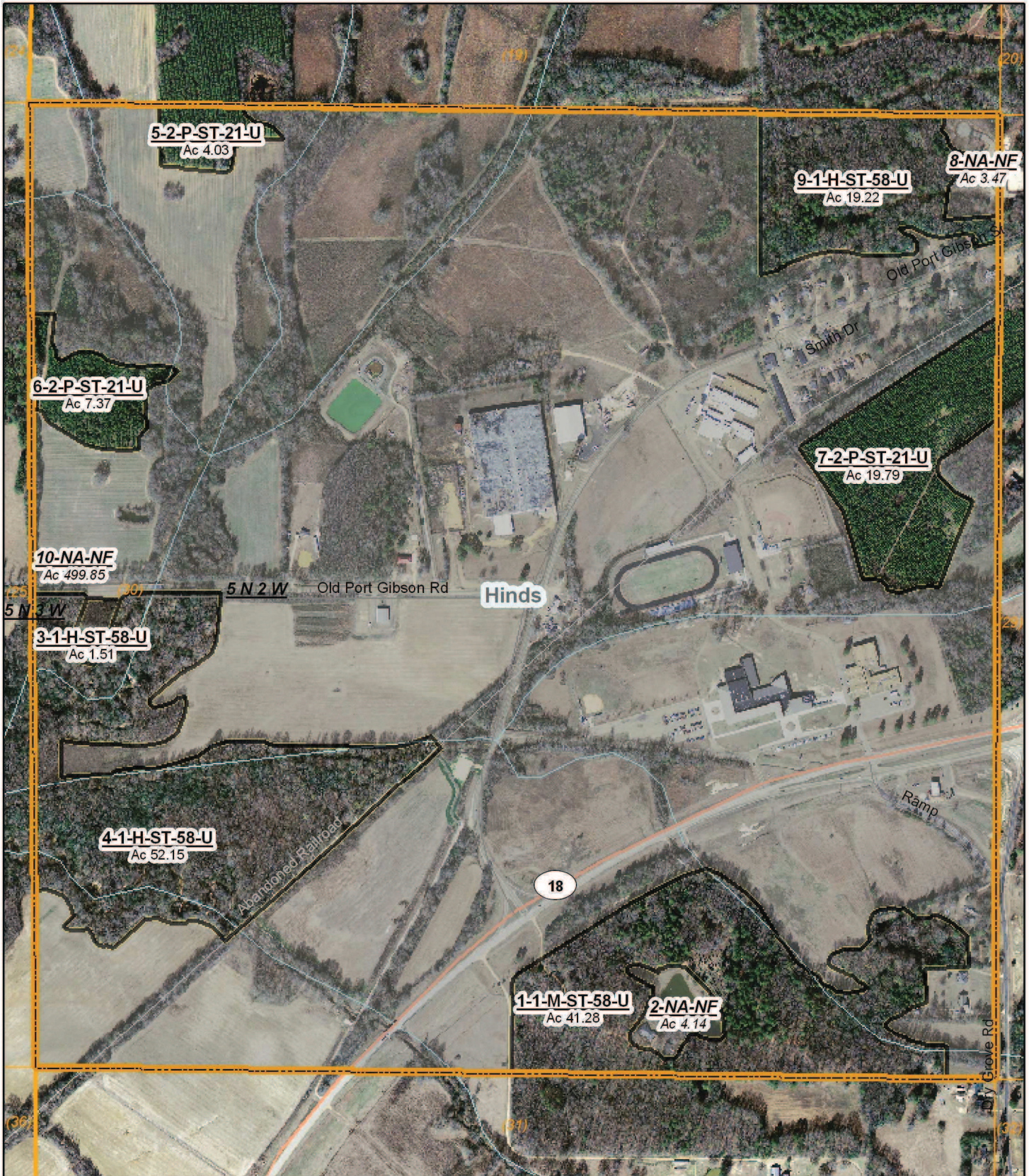


# Hinds County Schools

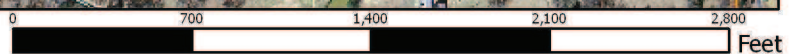
SEC. 30 TWN 5N RGE 2W

2012 to 2021

652.82 Acres




(01/04/2012)




# Hinds County Schools




## Property

 Property (1)

## Category 1: Stands


 Sawtimber (7)

## Category 3: Non-Forest Stands


 Non-Forest (3)

## MFC Basemap


### County Boundary

 County Boundary (1)


### Quadrangle Grid

 USGS Quad (2)


### PLS Townships

 PLS Townships (2)


### Survey Districts

 District 2 (1)


### Blockgroup (Census 2000)

 Blockgroup (Census 2000) (3)

### Block (Census 2000)

 Block (Census 2000) (17)


### Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)


### County Roads

 County Roads (9)


### US/State Highways

 State Highway (1)


### Abandoned Railroads

 Abandoned Railroads (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)


 26 (1)

### MS House


 73 (1)

 63 (1)


### Intermittent Streams

 Intermittent Streams (13)


### 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

 SOUTH CENTRAL HILLS (1)

### Soil Associations

 memphis-oring-collins (1)

 riedtown-oaklimer-ariel (1)

### Surface Geology

 CATAHOULA (1)


### Recreational Facilities

 Historic Park / Cultural Park / Facility (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  
30 5N 2W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
			0	\$0.00	\$0.00
<b>Grand Totals</b>			<b>0</b>	<b>\$0.00</b>	<b>\$0.00</b>