



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Perry County Schools

Prepared By:  
Brad D Pulliam  
MFC

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2008-04-23

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16-1S-10W**

## TABLE OF CONTENTS

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

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FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Perry County Schools  
Mailing Address: P.O. Box 137  
City, State, Zip: New Augusta, MS 39462  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 601-964-3211  
Fax Number:  
  
E-mail Address:  
Social Security Number (optional): 000000000

**FORESTER INFORMATION**

Name: Brad D Pulliam , Forestry Technician  
Forester Number: 00000  
Organization: MFC  
Street Address: P.O. Box 452  
City, State, Zip: Richton, MS 39476  
Contact Numbers: Office Number: 601-788-6006  
Fax Number: 601-788-6708  
  
E-mail Address: bpulliam@mfc.state.ms.us

**PROPERTY LOCATION**

County: Perry Total Acres: 653 Latitude: -88.99 Longitude: 30.96  
Section: 16 Township: 1S Range: 10W

**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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FOREST STEWARDSHIP MANAGEMENT PLAN**

**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 unique in many ways, those being from the way it is accessed to Black Creek passing through it to past timber management. It has basically three different stands of timber on it. One of which is a hardwood bottom along both sides of the creek, while the second is a natural stand of pulpwood that was created after a seed tree cut, and the third now being a clearcut stand that will be replanted soon. The North side of the creek is accessed by USFS roads while the South side is accessed through privated lands and also USFS from the Melvin Breland Rd.

*Water Resources*

This section has Black Creek passing through it and has to be managed in a way not to disturb the natural beauty of this area as it is a scenic waterway. The stands along the creek should be left as is to protect it from any erosion or other problems that could occur.

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.

**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

*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:

## **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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FOREST STEWARDSHIP MANAGEMENT PLAN**

**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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FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

*Archeological or Cultural Resources*

These areas can range from churches, old cemeteries, natural springs, Indian mounds to home sites or other area of historical significance.

No resources were identified during a reconnaissance of this property

However, there is an old well site located along the main woods road on the south side of the creek. This area is well marked with flagging at this time.

**STRATA**

*Strata 1*

Strata Description

Strata 1: Stands 2,4

Acres: 222

This strata is made up of hardwood bottoms that are adjacent to Black Creek. They sever as an SMZ area and also as a buffer to the Creek and its natural beauty. The stands have several different size and species of hardwood in them. These stands should be left as they are for the protection of the creek.

Strata Recommendations

To manage these stands as they are for the protection of the creek and its surroundings.

*Strata 2*

Strata Description

Strata 2: Stands 3,6

Acres: 237

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FOREST STEWARDSHIP MANAGEMENT PLAN**

These stands are quite different in their past management activities. This area had a seed tree cut done on it in the late 1980's or early 1990's and nothing was done since that time. The trees range in size from 3 inch to 20 in diameter and the stocking is well over 1000 trees per acre on most spots.

**Strata Recommendations**

These stands should be thinned either by way of a corridor thin or a whole tree chipping operation. At the time of the thinning all of the old seed trees remaining should be taken out and also everything under the 8 inch diameter class. This will open the stand up and allow for some growth potential for the remaining stems. However, they should be monitored close and if they do not respond should be harvested to and a new stand planted.

**Activity Recommendations**

**Fire Protection**

A prescribed fire is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

**Harvest**

This thinning should be done either by way of a corridor thin or a whole tree chipping operation and target all stems under 8 inches in diameter and all seed remaining seed trees. The BA will need to be cut back to an average of 70 for the entire stand.

*Strata 3*

**Strata Description**

Strata 3: Stand 5

Acres: 169

This stand is currently being harvested, as it was not suitable to leave due to low BA and poor quality of the stems on the site. It will be site prepared and replanted in the near future.



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FOREST STEWARDSHIP MANAGEMENT PLAN**

Strata Recommendations

This stand will be chemical site prepped and burned before it is replanted with either loblolly or longleaf seedlings.

Activity Recommendations

Harvest

Final harvest of the entire stand to allow for a new healthy well stocked stand to be planted.

Fire Protection

A prescribed fire is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

Site Preparation

Site prep will be a heavy chemical treatment to remove all unwanted species from the site and allow newly planted trees the opportunity to grow.

Regeneration

This tract will be planted in loblolly or either longleaf seedlings, this will be determined after the harvest is complete and the soils can be looked at over the entire tract.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

Line Description

The boundary lines are painted with orange paint and visible at this time.

Line Recommendations

The lines should be maintained on a five year rotation with these being painted in 2011, they will need maintenance in 2016 and 2021.

Activity Recommendations

Property Activities

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

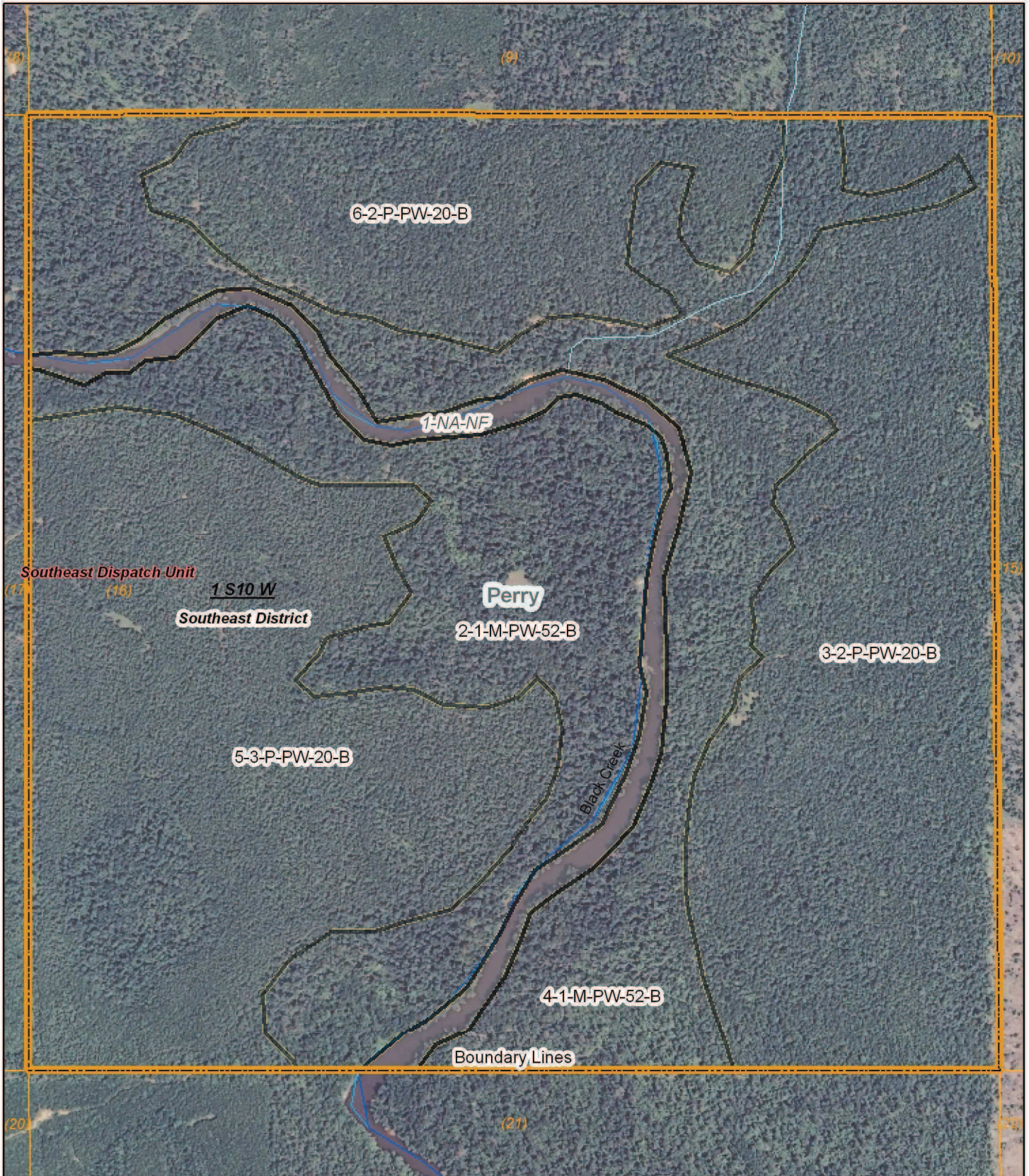


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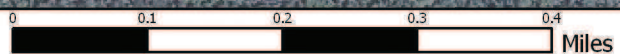
Black Creek Section

2012 to 2021

640 Acres



(02/10/2012)





Property

Property

Category 1: Stands

Pulpwood

Category 3: Non-Forest Stands

Non-Forest

Boundary Lines

Property

## MFC Basemap

County Boundary

County Boundary

Quadrangle Grid

USGS Quad

PLS Townships

PLS Townships

Survey Districts

District 5

Blockgroup (Census 2000)

Blockgroup (Census 2000)

Block (Census 2000)

Block (Census 2000)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000)

School Sections

School Sections

Public School Districts

PERRY COUNTY SCHOOL DISTRICT

US Congressional District

US Cong Dist #4

MS Senate

45

MS House

105

Major River

Major River

Perennial Streams

Perennial Streams

Intermittent Streams

Intermittent Streams

Hydrologic Units (Basins)

BLACK AND RED CREEKS

Historic Forest Boundary

Longleaf Pine with Loblolly Pine-Slash Pine

MS Forest Habitat

SOUTHERN LOAM HILLS-GENTLE TOPOGRAPHY

Physiographic Region

Pine Belt

Soil Associations

mclaurin-savannah-susquehanna

harleston-atmore-smithton

Soil Associations (cont)

mclaurin-heidel-prentiss

trebloc-latonia-osier

Surface Geology

PASCAGOULA/HATTIESBURG

Recreational Facilities

Unique Natural Park/Primitive Natural Park/Recreation Area

USFS Ownership

Private

Forest Service

USFS Boundary

Desoto

MFC Districts

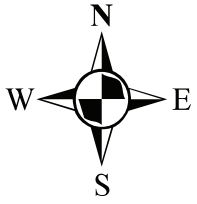
MFC Districts

MFC Dispatch Units

MFC Dispatch Units

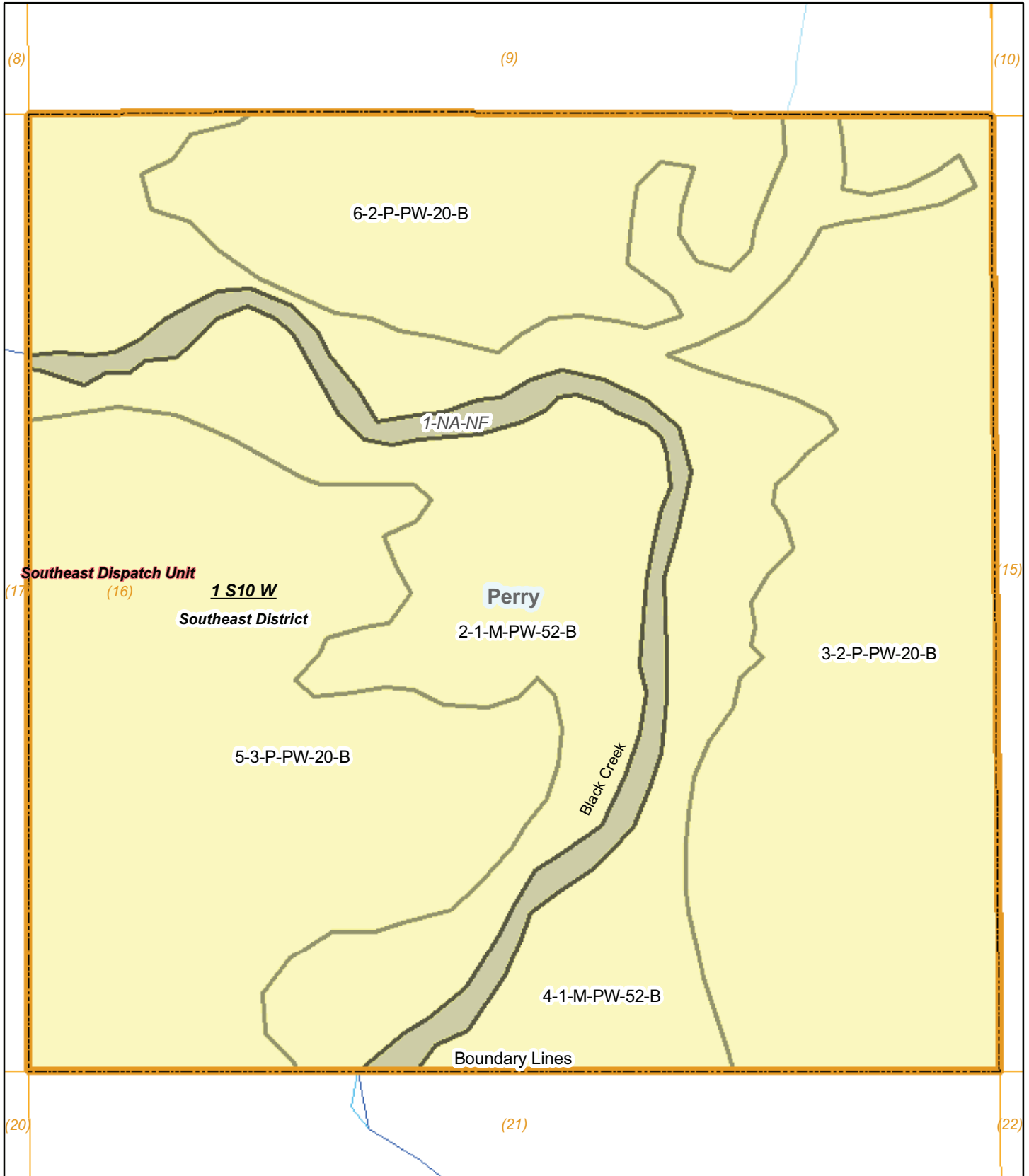
MS Outline

MS Outline

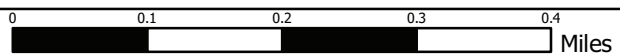


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Black Creek Section  
2012 to 2021  
640 Acres



(02/10/2012)



Stand Activity Schedule for  
Perry County Schools  
16 1S 10W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>					
2	6	Fire Protection, Other, Burn, Aerial, Hazard Mitigation	406	\$0.00	\$0.00
3	5	Harvest, Mechanical, Final, Machine, Loblolly	169	\$5,915.00	\$166,803.00
<b>Yearly Totals</b>			<b>575</b>	<b>\$5,915.00</b>	<b>\$166,803.00</b>
<b>2013</b>					
2	3	Fire Protection, Other, Burn, Hand, Hazard Mitigation	169	\$4,225.00	\$0.00
2	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	75	\$1,875.00	\$0.00
3	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	169	\$4,224.25	\$0.00
3	5	Site Preparation, Chemical, Broadcast, Aerial, Combination	169	\$16,897.00	\$0.00
<b>Yearly Totals</b>			<b>582</b>	<b>\$27,221.25</b>	<b>\$0.00</b>
<b>2014</b>					
3	5	Regeneration, Artificial, Plant, Hand, Loblolly	169	\$18,590.00	\$0.00
<b>Yearly Totals</b>			<b>169</b>	<b>\$18,590.00</b>	<b>\$0.00</b>
<b>2015</b>					
2	6	Fire Protection, Other, Burn, Aerial, Hazard Mitigation	406	\$10,150.00	\$0.00
<b>Yearly Totals</b>			<b>406</b>	<b>\$10,150.00</b>	<b>\$0.00</b>
<b>2016</b>					
2	3	Harvest, Mechanical, 1st Thin, Machine, Loblolly	162	\$5,670.00	\$35,640.00
2	6	Harvest, Mechanical, 1st Thin, Machine, Loblolly	75	\$2,630.60	\$16,535.20
<b>Yearly Totals</b>			<b>237</b>	<b>\$8,300.60</b>	<b>\$52,175.20</b>
<b>Grand Totals</b>			<b>1,969</b>	<b>\$70,176.85</b>	<b>\$218,978.20</b>