



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:  
2012-02-21

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16-4N-11W**

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**MISSISSIPPI FORESTRY COMMISSION  
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: 649    Latitude: -89.1    Longitude: 31.31  
Section: 16    Township: 4N    Range: 11W

**DISCLAIMER**

**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**

*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 located on Hwy 29 south of Runnelstown. This section is located on Hwy 29 south of Runnelstown. It consist of several different timber types consisting of pine plantation, a thinned plantation, and several hardwood drains along each side of Tallahala Creek which divides this section. This section had alot of damage during Hurricane Katrina. The damage to most was such that it had to be salvaged and replanted. Each stand will be explained in more detail within the plan. This section also has a high pressure gas pipeline going across the northern end of it which needs to be mentioned for all management purposes.

*Water Resources*

This tract of land is disected by Tallahala Creek in the central and western side, and flows the entire length north and south. 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: Sandy loam.

## **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.

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*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.

**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.

*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.

*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

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property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

**STRATA**

*Strata 1*

Strata Description

Strata 1: Stand 1

Acres: 72

This stand consist of a thinned pine plantation that is well stocked and has a average BA of 75. This stand was thinned in 2010 by the fifth row method. It should be monitored for the need of a prescribed burn and also a second thin toward the end of the plan life.

Strata Recommendations

This stand should be burned in 2015 to control unwanted brush and allow for better access. This stand will need to be cruised for the need of a second thin in 2019.

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 thin will need to marked to allow for the lower quality trees to be removed. It will need to target these stems in order to leave the best quality trees for the final harvest.

*Strata 2*

Strata Description

Strata 2: Stands 3,4,6,7,9,14,15

Acres: 290

This stand consist of pine plantation that was machine planted in 2008. All stands had good survival and are well stocked at this time. These stands was created after damage from Hurricanes in 2005 damaged the previous stands.

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Strata Recommendations

These stands should be monitored for insect and disease and also invasive species. Any evidence of these should be treated to prevent damage to the stands.

*Strata 3*

Strata Description

Strata 3: Stands 8, 10, 12, 13

Acres: 208

These stands consist of hardwood drains that act as SMZ for the surrounding stands. These stands are located along each side of the creek as well throughout the stands. These stands should be treated as such as they protect the banks of the creek.

Strata Recommendations

Little to no action should be done in these stands as they protect the stream banks and prevent silt and runoff from entering the streams. However, as adjacent stands are harvested any sawtimber that is within these stands can be removed as long as it does not damage the stream banks.

*Strata 4*

Strata Description

Strata 4: Stand 5

Acres: 27

This stand consist of a pine plantation that will need to be thinned within the life of this plan. This stand is well stocked and growing. It was created due to pine beetle activity in this area several years ago, with the previous stand being removed and this one planted.

Strata Recommendations

This stand should be thinned in 2015 with the target being the undesirable stems and to reduce the BA to an average of 70 per acre. After thinning the stand should be introduced into a burning program to controll unwanted brush from entering the stand.

Activity Recommendations

Harvest

1st Thin

5th row method

Target undesirable stems

Reduce to an average BA of 70



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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.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

Line Description

All lines are painted orange and are visible at this time.

Line Recommendations

Lines should be maintained on a five year rotation, which has these on schedule to repaint in 2014 and again in 2019.

Activity Recommendations

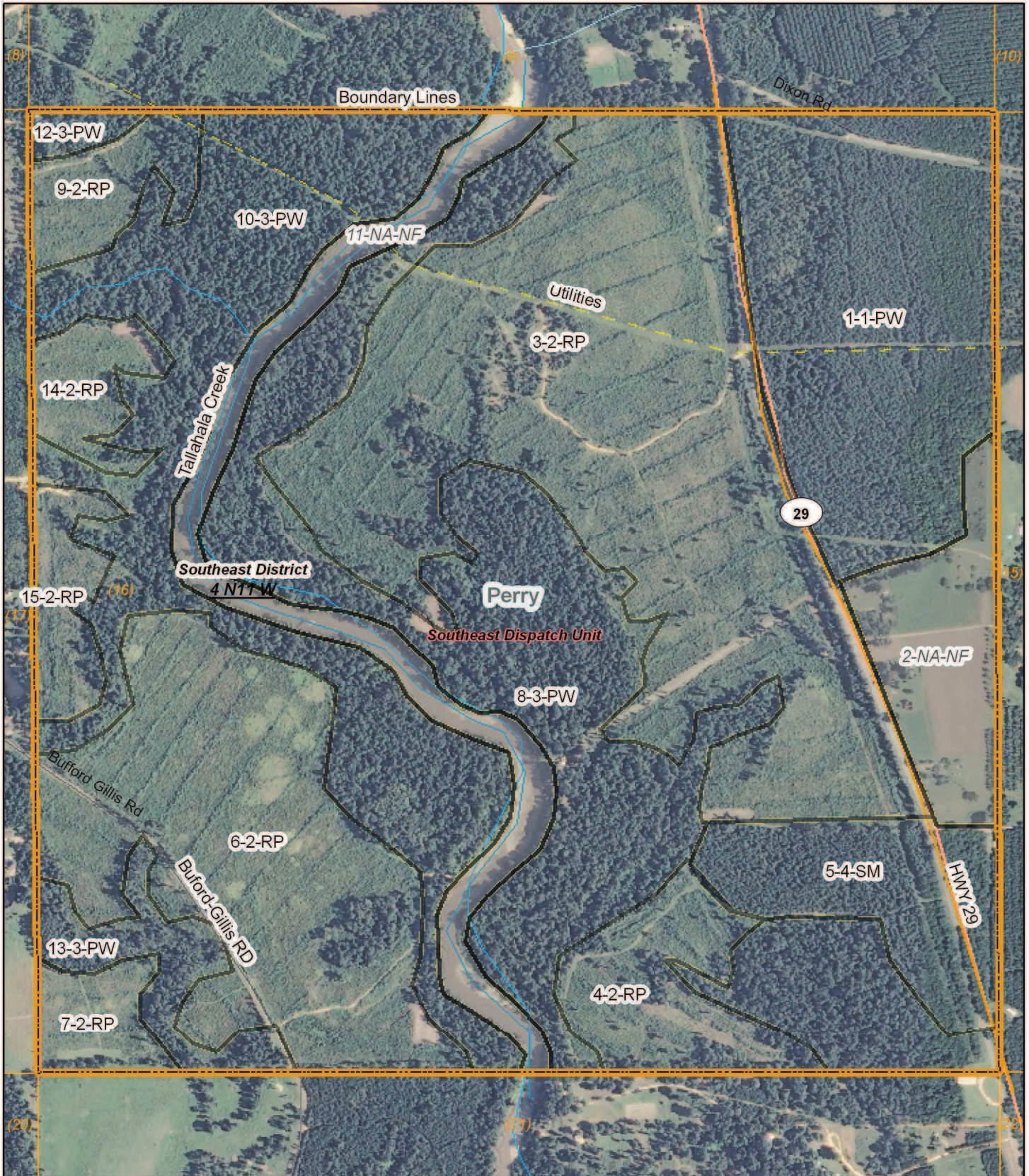
Property Activities

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

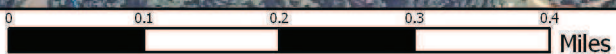


# Perry County Schools

Hwy 29 South of Runnelstown  
2012 to 2021  
640 Acres



(02/10/2012)



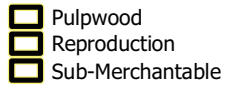
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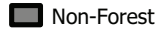
## Property



## Category 1: Stands



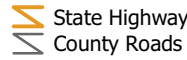
## Category 3: Non-Forest Stands



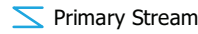
## Boundary Lines



## Transportation (Lines)



## Hydrology (Lines)



## Utilities (Lines)



## MFC Basemap

### County Boundary



### Quadrangle Grid



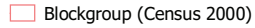
### PLS Townships



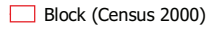
### Survey Districts



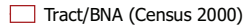
### Blockgroup (Census 2000)



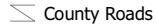
### Block (Census 2000)



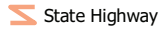
### Tract/BNA (Census 2000)



### County Roads



### US/State Highways



### School Sections



### Public School Districts



### US Congressional District



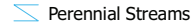
### MS Senate



### MS House



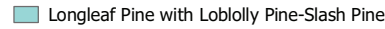
### Perennial Streams



### Hydrologic Units (Basins)



### Historic Forest Boundary



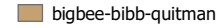
### MS Forest Habitat



### Physiographic Region



### Soil Associations



### Surface Geology



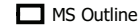
### MFC Districts

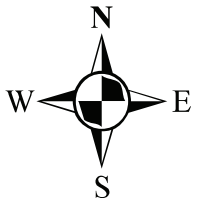


### MFC Dispatch Units



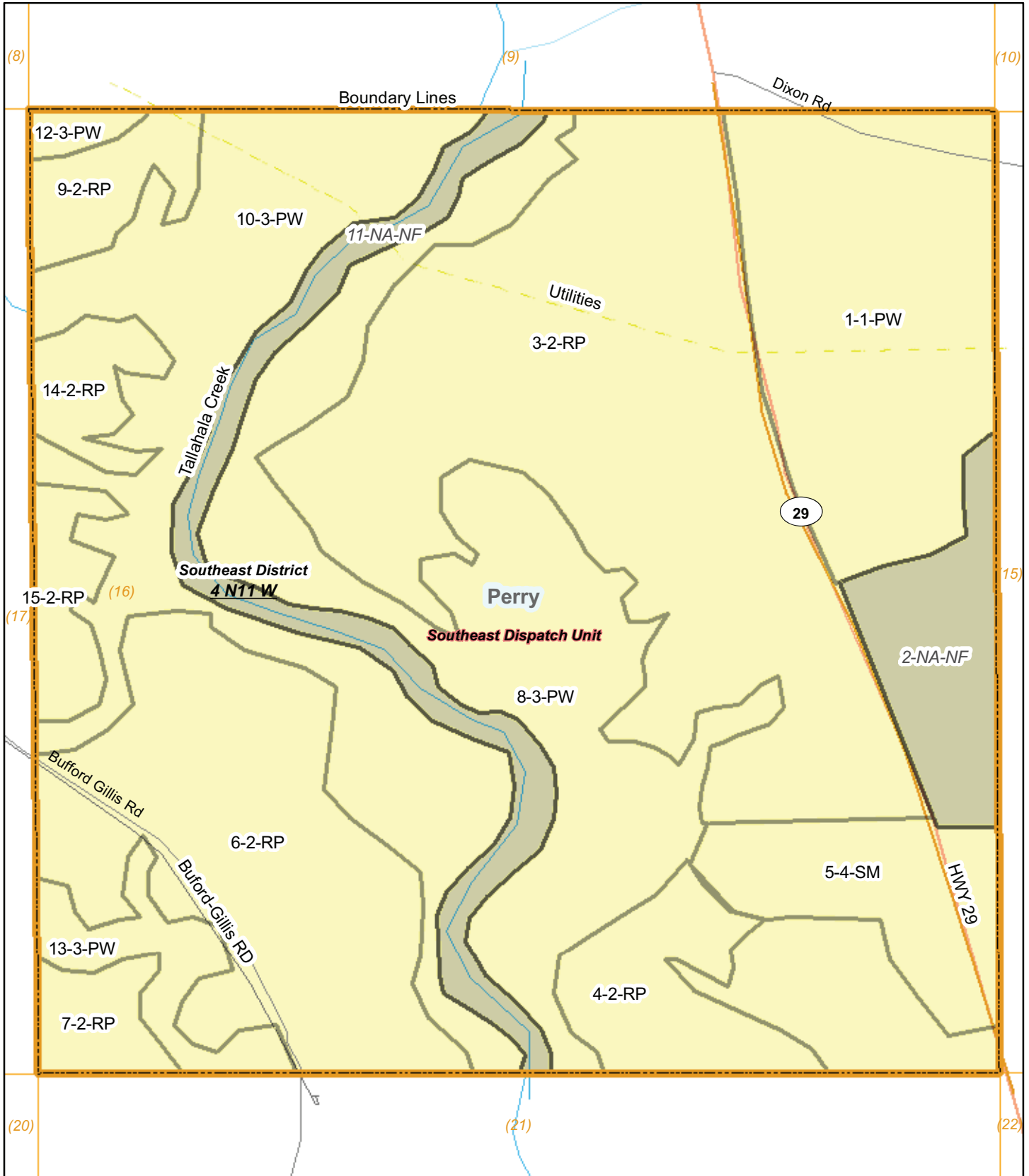
### MS Outline



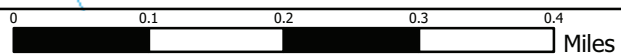


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Hwy 29 South of Runnelstown  
2012 to 2021  
640 Acres



(02/10/2012)



Stand Activity Schedule for  
Perry County Schools  
16 4N 11W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2015</b>					
1	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	71	\$1,775.00	\$0.00
4	5	Harvest, Mechanical, Thin, Machine, Loblolly	27	\$945.00	\$0.00
<b>Yearly Totals</b>			<b>98</b>	<b>\$2,720.00</b>	<b>\$0.00</b>
<b>2017</b>					
4	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	27	\$675.00	\$0.00
<b>Yearly Totals</b>			<b>27</b>	<b>\$675.00</b>	<b>\$0.00</b>
<b>2019</b>					
1	1	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	71	\$2,485.00	\$23,430.00
<b>Yearly Totals</b>			<b>71</b>	<b>\$2,485.00</b>	<b>\$23,430.00</b>
<b>Grand Totals</b>			<b>196</b>	<b>\$5,880.00</b>	<b>\$23,430.00</b>