



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: 16-1N-9W

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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: 622 Latitude: -88.9 Longitude: 31.05
Section: 16 Township: 1N Range: 9W

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 Forest Service Road 315 south of McLain. It is surrounded by USFS lands and is the Leaf River Management Area. This section has three different types of timber stands on it ranging from submerchable pine plantation to a pulpwood stand, with the last being a chip-n-saw size stand. All stands are well stocked and growing at this time.

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.

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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: Heavy clay on the ridge tops to a more sandy loam in the bottoms.

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.

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

STRATA

Strata 1

Strata Description

Strata 1: Stands 1,3,6,7,8,9

Acres: 110

These stands consist of drains and are made up of low to mid quality hardwood. They stand as the SMZ areas for the entire and should be managed that way, with little to no impact in them.

Strata Recommendations

Manage as SMZ,s by the MS BMP guidelines. Some mature sawtimber maybe removed from these stands as adjacent stands are harvested.

Strata 2

Strata Description

Stata 2: Stand 2

Acres: 143

This stand consist of chip-n-saw size trees with some pulpwood still mixed in. This stand was thinned in 2008 and is well stocked and growing at this time. The stand has been burned once since the thinning and it was done in conjunction with the USFS.

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Strata Recommendations

This stand will need to be prescribed burned in 2013 and again in 2018 to control unwanted brush within the stand. The stand should also be monitored for the need of a second thin toward the end of this plan life.

Activity Recommendations

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 2013 and be repeated in 2018. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

Strata 3

Strata Description

Strata 3: Stand 4

Acres: 264

This stand is made up of a pulpwood stand, with the average DBH being around 6" at this time. The stand is approximately 20 years old at this time. This stand is mostly on very poor soils and has not grown well. The stand is in need of thin and should be done in 2013. It is over stocked around the edges due to blow in from surrounding stands and some spots are very thick with underbrush within the stand.

Strata Recommendations

This stand should be thinned to an average BA of 70 in the fall of 2013. This thinning should target small diameter stems and also forked, crooked and any other undersirable stems to achieve this goal. After thinning the stand will need to be prescribed burned in order to control unwanted brush from the stand.

Activity Recommendations

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 2015 and be repeated on a two or three year rotation thereafter. Prescribed fire when used correctly can greatly benefit the health and vigor of a stand. It reduces the undesirable tree species that often crowd out or suppress pines. These unwanted understory trees and shrubs species not only compete for water, nutrients, and growing space, but often contain dead needles and leaves that act as ladder fuels allowing a fire to climb into the overstory crowns. Prescribed fire also reduces the hazardous fuel loads within the stand and prevents damage in the event of a wildfire.

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Harvest

First thin

5th row method

Target all undesirable stems to get BA to an average of 70

Strata 4

Strata Description

Strata 4: Stand 5

Acres: 104

This stand consist of an 6 year old loblolly plantation that was machine planted. The stand is well stocked and growing at this time. This stand should be thinned in 2021 as the plan states now. This stand is on a poor stie as well and will take this long to reach a size big enough to thin.

Strata Recommendations

This stand should be monitored until which time it reaches the age and size it can be thinned. At that point it will need to be thinned back to an average BA of 70 by removing the undesirable stems from the stand.

Activity Recommendations

Harvest

1st thin

5th row method

Remove undesirable stems to acquire target BA

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

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

Line Recommendations

Lines should be maintained on a five year rotation with these lines needing painting in 2012, and again in 2017.

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Activity Recommendations

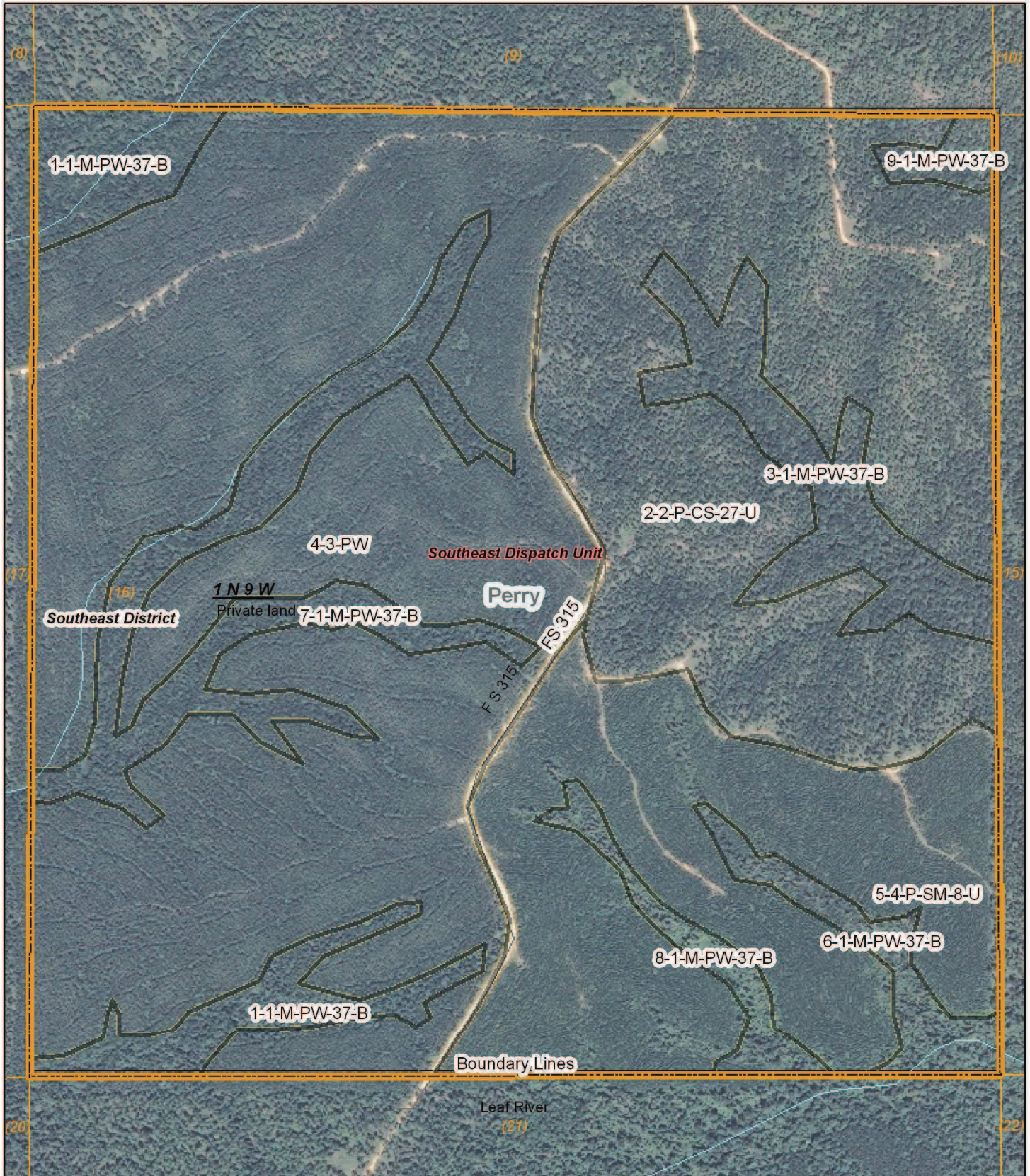
Property Activities

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

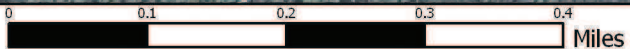


Perry County Schools

Forest Service road 315
2012 to 2021
640 Acres



(02/10/2012)



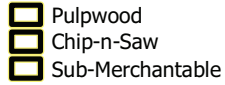
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Property



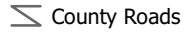
Category 1: Stands



Boundary Lines

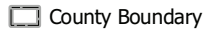


Transportation (Lines)

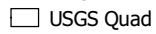


MFC Basemap

County Boundary



Quadrangle Grid



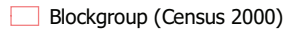
PLS Townships



Survey Districts



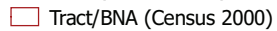
Blockgroup (Census 2000)



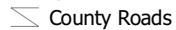
Block (Census 2000)



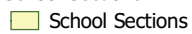
Tract/BNA (Census 2000)



County Roads



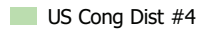
School Sections



Public School Districts



US Congressional District



MS Senate



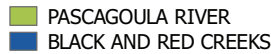
MS House



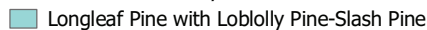
Intermittent Streams



Hydrologic Units (Basins)



Historic Forest Boundary



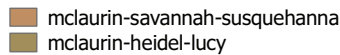
MS Forest Habitat



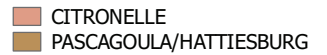
Physiographic Region



Soil Associations



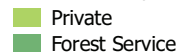
Surface Geology



Wildlife Management Areas



USFS Ownership



USFS Boundary



MFC Districts

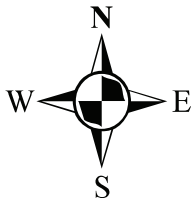


MFC Dispatch Units



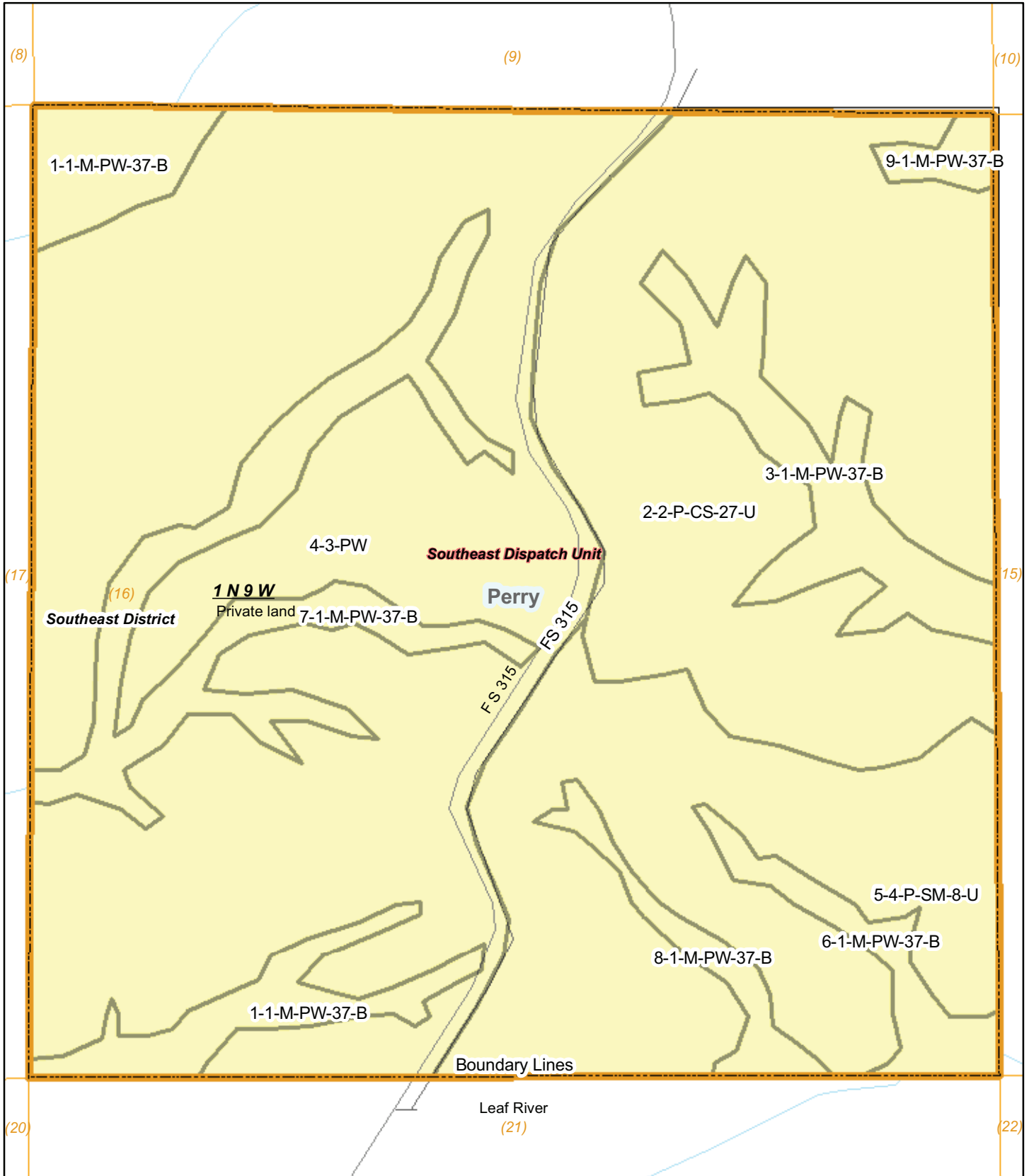
MS Outline



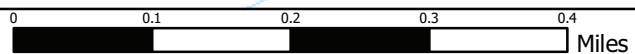


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Forest Service road 315
2012 to 2021
640 Acres



(02/10/2012)



Stand Activity Schedule for
Perry County Schools
16 1N 9W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2013					
2	2	Fire Protection, Other, Burn, Hand, Hazard Mitigation	143	\$3,575.00	\$0.00
3	4	Harvest, Mechanical, Thin, Machine, Loblolly	264	\$9,240.00	\$58,080.00
Yearly Totals			407	\$12,815.00	\$58,080.00
2015					
3	4	Fire Protection, Other, Burn, Hand, Hazard Mitigation	264	\$6,600.00	\$0.00
Yearly Totals			264	\$6,600.00	\$0.00
2018					
2	2	Fire Protection, Other, Burn, Hand, Hazard Mitigation	143	\$3,575.00	\$0.00
Yearly Totals			143	\$3,575.00	\$0.00
2020					
3	4	Fire Protection, Other, Burn, Hand, Hazard Mitigation	264	\$6,600.00	\$0.00
Yearly Totals			264	\$6,600.00	\$0.00
2021					
4	5	Harvest, Mechanical, Thin, Machine, Loblolly	104	\$3,640.00	\$22,880.00
Yearly Totals			104	\$3,640.00	\$22,880.00
Grand Totals			1.182	\$33,230.00	\$80,960.00