



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: 16-5N-11W

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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: 645 Latitude: -89.1 Longitude: 31.4
Section: 16 Township: 5N Range: 11W

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 North of Runnelstown on Highway 29. It has approximately 110 acres on the east side with the rest being on the west side of the highway. It has four different timber stands on it, with those being from longleaf plantation to mature pine sawtimber. All stands are well stocked and growing at this time. The east side of Hwy 29 is slated to be harvested this year and will be reforested soon. The other stands have sales planned for them throughout the life of the plan. This section has 3 residential leases with need to be mentioned for any future management purposes.

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: Sandy Loam to some areas of heavy clay on the north end of the section.

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.

There are 3 home sites on this section which need to be mentioned, all are along the highway and need to be taken into consideration for future management.

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.

STRATA

Strata 1

Strata Description

Strata 1: Stand 2

Acres: 55

This stand consist of a loblolly plantation that is well stocked and approaching the age and size of a first thin. This stand was planted after an attack from pine beetles destroyed a portion of the original stand.

Strata Recommendations

This stand should be thinned in 2012 for the first time. The stand should be thinned by a fifth row method and remove enough stems to reduce the average BA to 70 per acre.

This should be done by removing undesirable stems such as crooked, forked, and disease trees.

Activity Recommendations

Harvest

First thin

Target BA 70 per acre

Remove undesirable stems

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

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basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

Strata 2

Strata Description

Strata 2: Stand 3

Acres: 300

This stand consists of all 3 major pine species, Loblolly, Slash, and Longleaf, and has a past history of management trails and errors. This stand has many different size and age classes within it and will need to be marked to remove many of the unwanted stems. This stand was seed tree cut many years ago and then seeded by airplane, then planted by machine in some areas where trees were not present.

Strata Recommendations

This stand should be burned in 2013 to allow for access to timber marking. Also, the burn will help remove unwanted hardwood brush throughout the stand. After a burn the stand should be marked for a thinning that will target all age and sizes of trees. This stand will need to be marked to leave the best stems that are somewhat the same age, as to try and balance the stand.

Activity Recommendations

Harvest

This practice should take place in 2015.

This will be a marked sale of all types and products of pine timber.

The thinning should reduce BA to an average of 70 for the entire stand.

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.

Strata 3

Strata Description

Strata 3: Stands 4,6

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Acres: 164

This stand is made up of a longleaf plantation that is well stocked and growing at this time. The trees were hand planted in 2004 and had a good survival.

Strata Recommendations

This stand will need to be controlled burned to control unwanted brush within the stand and also remove and brown spot needle blight from the trees in the stand.

Activity Recommendations

Fire Protection

A prescribed burn should be carried out on this property in the late fall or early winter of 2014 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.

Strata 4

Strata Description

Strata 4: Stand5

Acres: 104

This stand consists of a well stocked mature pine sawtimber stand. It has all three types of pine scattered through it and range in size from pulp to sawtimber. It is located on the east side of Hwy 29.

Strata Recommendations

This stand has been cruised and is ready to sale as soon as the board gives the ok. A plan will have to made after the timber is harvested to reforest this stand that will depend on many factors.

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

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basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

Harvest

This will be a final harvest of all timber excluding the SMZ areas that will be marked out of the sale. Sale should be completed in 2011.

Strata 5

Strata Description

Strata 5: Stand 8

Acres: 2

This stand is an SMZ that has been marked within a sawtimber stand. No timber inside this SMZ should be harvested as it serves an important purpose by maintaining the soil stability in this area.

Strata Recommendations

No activity is planned for this stand throughout the life of this plan.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

All lines are painted orange and visible at this time.

Line Recommendations

The lines should be maintained on a five year rotation. These lines are scheduled to be painted again in 2015 and 2020.

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.

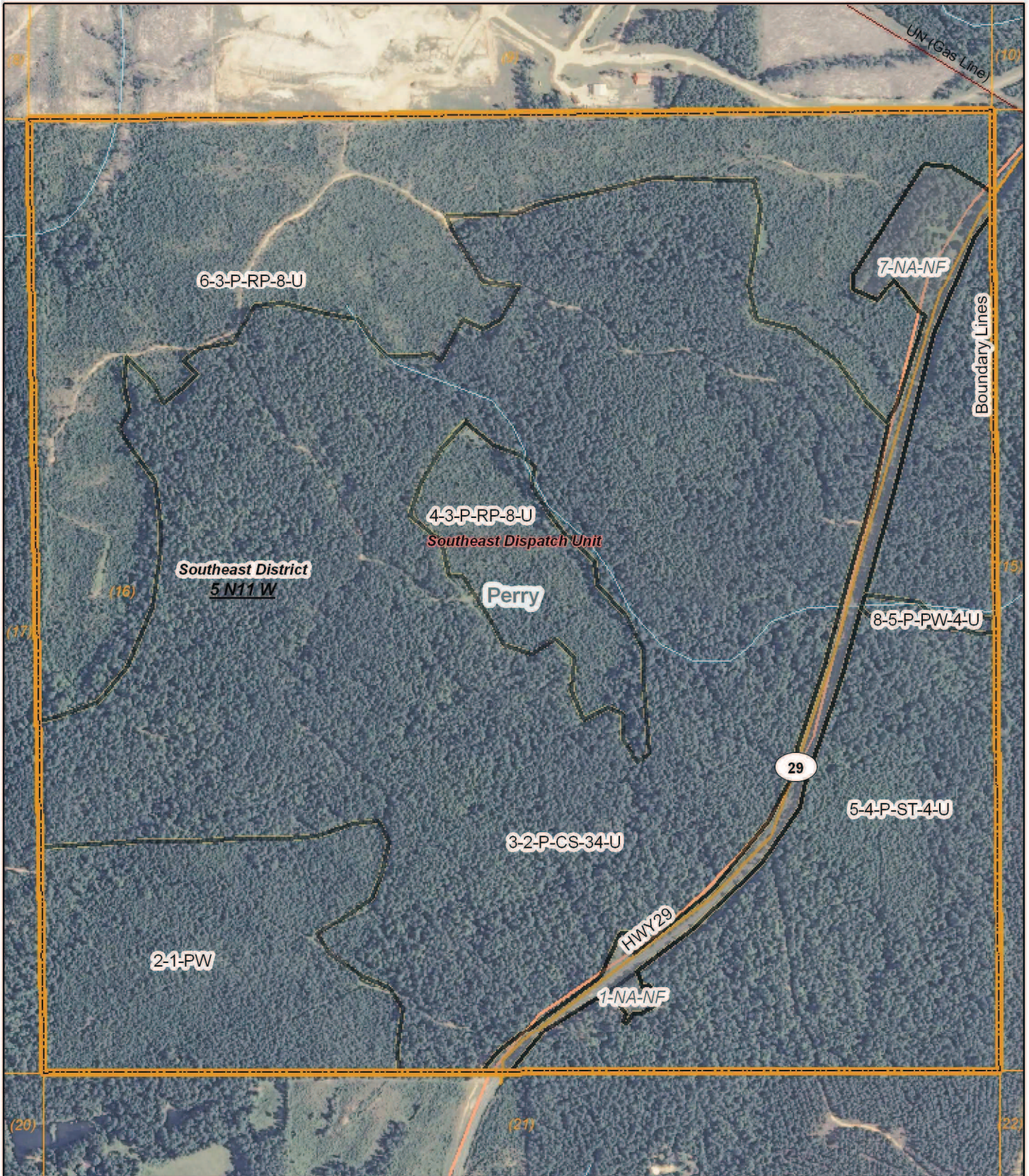


Perry County Schools

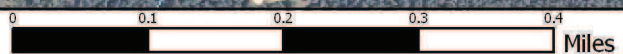
Hwy 29 North of Runnelstown

2012 to 2021

640 Acres



(02/10/2012)



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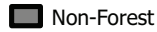
Property



Category 1: Stands



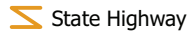
Category 3: Non-Forest Stands



Boundary Lines



Transportation (Lines)



MFC Basemap

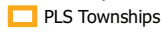
County Boundary



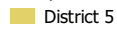
Quadrangle Grid



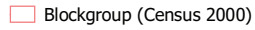
PLS Townships



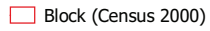
Survey Districts



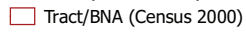
Blockgroup (Census 2000)



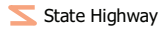
Block (Census 2000)



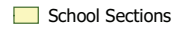
Tract/BNA (Census 2000)



US/State Highways



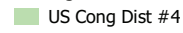
School Sections



Public School Districts



US Congressional District



MS Senate



MS House



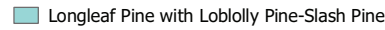
Intermittent Streams



Hydrologic Units (Basins)



Historic Forest Boundary



MS Forest Habitat



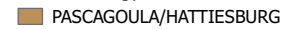
Physiographic Region



Soil Associations



Surface Geology



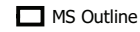
MFC Districts

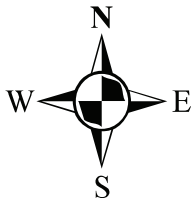


MFC Dispatch Units



MS Outline



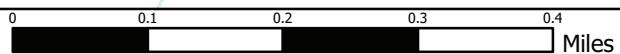


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Hwy 29 North of Runnelstown
2012 to 2021
640 Acres



(02/10/2012)



Stand Activity Schedule for
Perry County Schools
16 5N 11W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	2	Harvest, Mechanical, Thin, Machine, Loblolly	55	\$1,925.00	\$12,100.00
Yearly Totals			55	\$1,925.00	\$12,100.00
2013					
2	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	299	\$7,475.00	\$0.00
Yearly Totals			299	\$7,475.00	\$0.00
2014					
1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	55	\$1,375.00	\$0.00
3	4	Fire Protection, Other, Burn, Hand, Hazard Mitigation	22	\$550.00	\$0.00
3	6	Fire Protection, Other, Burn, Hand, Hazard Mitigation	142	\$3,540.75	\$0.00
Yearly Totals			219	\$5,465.75	\$0.00
2015					
2	3	Harvest, Mechanical, Thin, Machine, Misc Pine	299	\$10,465.00	\$161,460.00
Yearly Totals			299	\$10,465.00	\$161,460.00
2019					
3	4	Fire Protection, Other, Burn, Hand, Hazard Mitigation	22	\$557.50	\$0.00
3	6	Fire Protection, Other, Burn, Hand, Hazard Mitigation	142	\$3,550.00	\$0.00
Yearly Totals			164	\$4,107.50	\$0.00
Grand Totals			1.036	\$29,438.25	\$173,560.00