



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Grenada County BOE

Prepared By:
Kenneth E. Cline
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-15

Plan Type:
Stewardship / Stewardship

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

Property Name: S16-T22N-R6E

TABLE OF CONTENTS

LANDOWNER INFORMATION	3
FORESTER INFORMATION	3
DISCLAIMER	3
INTRODUCTION	3
OBJECTIVES	4
PROPERTY DESCRIPTION	4
SOIL TYPES	5
GENERAL PROPERTY RECOMMENDATIONS	7
STRATA	9
OTHER PLAN ACTIVITIES	12
PLAN MAP	14
PLAN MAP	15
PLAN MAP	16
STRATA ACTIVITY SCHEDULE	17

LANDOWNER INFORMATION

Name: Grenada County BOE
Mailing Address: Grenada School District
P.O. Box 1940
City, State, Zip: Grenada, MS 38902
Country: United States of America
Contact Numbers: Home Number:
Office Number: 662-226-1606
Fax Number: 662-226-7994
E-mail Address: ddaigneault@gsd.k12.ms.us
Social Security Number (optional):

FORESTER INFORMATION

Name: Kenneth E. Cline , SF
Forester Number: 01333
Organization: MFC
Street Address: 50 E. Pecan St.
Suite-A
City, State, Zip: Grenada, MS 38901
Contact Numbers: Office Number: 662-226-1973
Fax Number: 662-226-1973
E-mail Address: kcline@mfc.state.ms.us

PROPERTY LOCATION

County: Grenada Total Acres: 638 Latitude: -89.67 Longitude: 33.77
Section: 16 Township: 22N Range: 6E

DISCLAIMER

Stewardship Plan 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.

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 approximately 4 miles West of Gore Springs, North of Hwy. 8 in Grenada County, and consists of 638.33 acres, all of which are forested. The section consists of the following stands:

STRATUM #1: Pine Sub. Merchantable-11-14 yr. old--(41.72 ac.), estab. 2001; [**Stand # 3**]; (307.94 ac.), estab. 1998; [**Stand # 7**].

STRATUM #2: Pine Sawtimber; (*thinned-June 2011*)-45 yr. old (164.15 ac.), estab. 1966. **Stand # 1, 2, & 8.**

STRATUM #3: Hardwood Sawtimber SMZ-45 yr. old (124.52 ac.), estab. 1966. **Stand # 4, 5, 6, 9, & 10.**

The section will be inspected annually, to assess the overall condition of the stands, roads, and firelanes. Any and all maintenance to the section will be done as needed.

Water Resources

Perennial water resources were identified during a reconnaissance of the property. The watershed drainages of this section are in the Coles Creek watershed. Coles Creek is a tributary of the Yazoo River Watershed Basin. The objective is to protect, preserve, and enhance all water sources and drainages on or transecting the property. Mississippi's Best Management Practices will be implemented during all aspects of the management of this property, to minimize the impact on any water source.

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

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FOREST STEWARDSHIP MANAGEMENT PLAN

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.

Archeological and Cultural Resources

No Archeological and Cultural Resources were identified during a reconnaissance of the property.

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:

SOIL TYPES

CrF - Cuthbert-Ruston assoc.

The Cuthbert component makes up 46 percent of the map unit. Slopes are 17 to 35 percent. This component is on uplands. The parent material consists of loamy marine 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 moderate. Shrink-swell potential is moderate. 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 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Ruston component makes up 31 percent of the map unit. Slopes are 17 to 40 percent. This component is on coastal plains. The parent material consists of loamy fluviomarine 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 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 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Loblolly Site Index = 80.

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FOREST STEWARDSHIP MANAGEMENT PLAN

Fl, Ff - Falaya silt loam

The Falaya component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. 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 18 inches during January, February, March, April, 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. Loblolly Site Index = 98, Cherrybark Oak = 110.

Gt, Gu - Gullied land, sandy

Generated brief soil descriptions are created for major soil components. The Gullied land is a miscellaneous area. Loblolly Site Index = 68.

PrC3 - Providence, severely eroded

The Providence component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 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 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. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 75.

CxE2 - Cuthbert-Ruston complex

The Cuthbert component makes up 45 percent of the map unit. Slopes are 12 to 17 percent. This component is on uplands. The parent material consists of loamy marine 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 moderate. Shrink-swell potential is moderate. 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 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Ruston component makes up 40 percent of the map unit. Slopes are 12 to 17 percent. This component is on coastal plains. The parent material consists of loamy fluviomarine 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 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 1 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Loblolly Site Index = 80.

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PcD2 - Providence-Loring complex

The Providence component makes up 50 percent of the map unit. Slopes are 8 to 12 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 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 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. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The Loring component makes up 40 percent of the map unit. Slopes are 8 to 12 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 4e. This soil does not meet hydric criteria.

Loblolly Site Index = 87.

DuC3 - Dulac silt loam

The Dulac component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer, fragipan, is 20 to 26 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 18 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 75.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A vigorous, 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:

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- 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.

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.

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FOREST STEWARDSHIP MANAGEMENT PLAN

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

STRATA

Strata 1

Strata Description

Pine Sub-Merchantable-11-14 yr. old (41.72 ac.), estab. 2001 [**Stand # 3**]; (307.94 ac.), estab. 1998 [**Stand # 7**]. {*Total Strata Acreage is 349.66 ac.*}

Current stocking consists of 780 trees per acre, averaging 5 inches in diameter. The Basal Area is 106 square feet per acre.

Strata Recommendations

This Strata is scheduled for a *1st Thinning* in **2016** (stand age 15-18), with the goal of reducing the Basal Area to approximately 80 square feet per acre. This will be followed by a *Prescribed Burn*, in **2019**. The objective of this burn will be fuel reduction.

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FOREST STEWARDSHIP MANAGEMENT PLAN**

Activity Recommendations

Harvest

A 1st thinning is scheduled for **2016**. Diseased, damaged, and poorly formed trees will be selected for removal, with the goal of reducing the average Basal Area to 80 square feet per acre. *Stand and market conditions will dictate the actual timing of the sale.*

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.

A *Prescribed Burn* is scheduled in **2019** (two years after completion of the thinning). The purpose will be to remove logging slash and reduce the fuel load.

Strata 2

Strata Description

Pine Sawtimber (*Thinned-June 2011*)-45 yr. old (164.15 ac.), estab. 1966. **Stand # 1, 2, & 8.**

Current pine stocking consists of 36 trees per acre, with a Basal Area of 48 square feet per acre. The average diameter is 16 inches and the estimated yield is 40 tons per acre. A minor hardwood understory accounts for an additional 40 trees per acre, with a Basal Area of 23 square feet per acre. The estimated hardwood yield is 10 tons per acre.

MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN

Strata Recommendations

This Strata is scheduled for a *Prescribed Burn* in **2014**, to remove logging slash and reduce the fuel load. This will be followed by a *Final Harvest*, in **2017**. All merchantable timber will be harvested at that time.

Upon completion of the final harvest, a *Chemical Site Prep* will be conducted, during the summer of **2018**. This will be followed by a *Site Prep Burn*, planned for the fall of **2018**.

Tree Planting will be conducted during the winter of **2019**, after all site prep has been completed.

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.

A *Prescribed Burn* is scheduled for **2014**, to remove logging slash and reduce the fuel load.

Harvest

A Final Harvest is scheduled in **2017**. All merchantable timber will be harvested at this time. *Stand and market condition will dictate the actual timing of the sale.*

Site Preparation

Upon completion of the final harvest, a *Chemical Site Prep* spray will be scheduled, in FY **2019**, to control competing vegetation and improve the tract for tree planting. This work should be done between July 15, 2018 and Sept. 30, 2018.

Following the chemical work, a *Site Prep Burn* will be conducted, during the fall of FY **2019**, to further prepare the site for tree planting. Preferably, this work should be completed by the end of *November, 2018.*

Regeneration

This Strata is scheduled for *Tree Planting in FY 2019*. The tract will be hand planted in Improved Loblolly Pine, on a 7 ft. X 9 ft. spacing (691 trees per acre). The total number of seedlings needed will be 113,000.

Planting will be scheduled for *January 1, 2019- March 1, 2019.*

Strata 3

Strata Description

Hardwood Sawtimber SMZ-45 yr. old (124.52 ac.), estab. 1966. **Stand # 4, 5, 6, 9, & 10.** {*This is a restricted management area.*}

Current stocking consists of 80 trees per acre, with an average diameter of 14 inches. The average Basal Area is 78 square feet per acre. The estimated yield is 58 tons per acre. This Strata is being managed on a 70 year rotation.

Strata Recommendations

This strata will be managed on an 70 year rotation. Only *selective* harvesting will be utilized. Selective harvesting will occur when adjacent stands are thinned or regenerated. No more than 50% of the crown cover will be removed, in order to maintain sufficient overstory to provide shade, maintain bank stability, and protect water quality. [*The minimum width on all SMZ's will be 30 feet on both sides of the stream bank.*]

Natural regeneration will be utilized when needed.

No Activities are scheduled for this Strata at this time.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

The Boundary Lines, on this section, were last painted in **May, 2009**. They were marked with Blue paint.

Line Recommendations

Boundary Line Maintenance is scheduled for **2015** and **2020**. The section lines will be marked with Orange paint.

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.

This work is scheduled for **2015** and **2020**, when the boundary lines are painted.

This section will, also, be inspected for Beaver Dams, with demolition of any dams scheduled as needed. The estimated cost of this work is \$500 per demolition.

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FOREST STEWARDSHIP MANAGEMENT PLAN

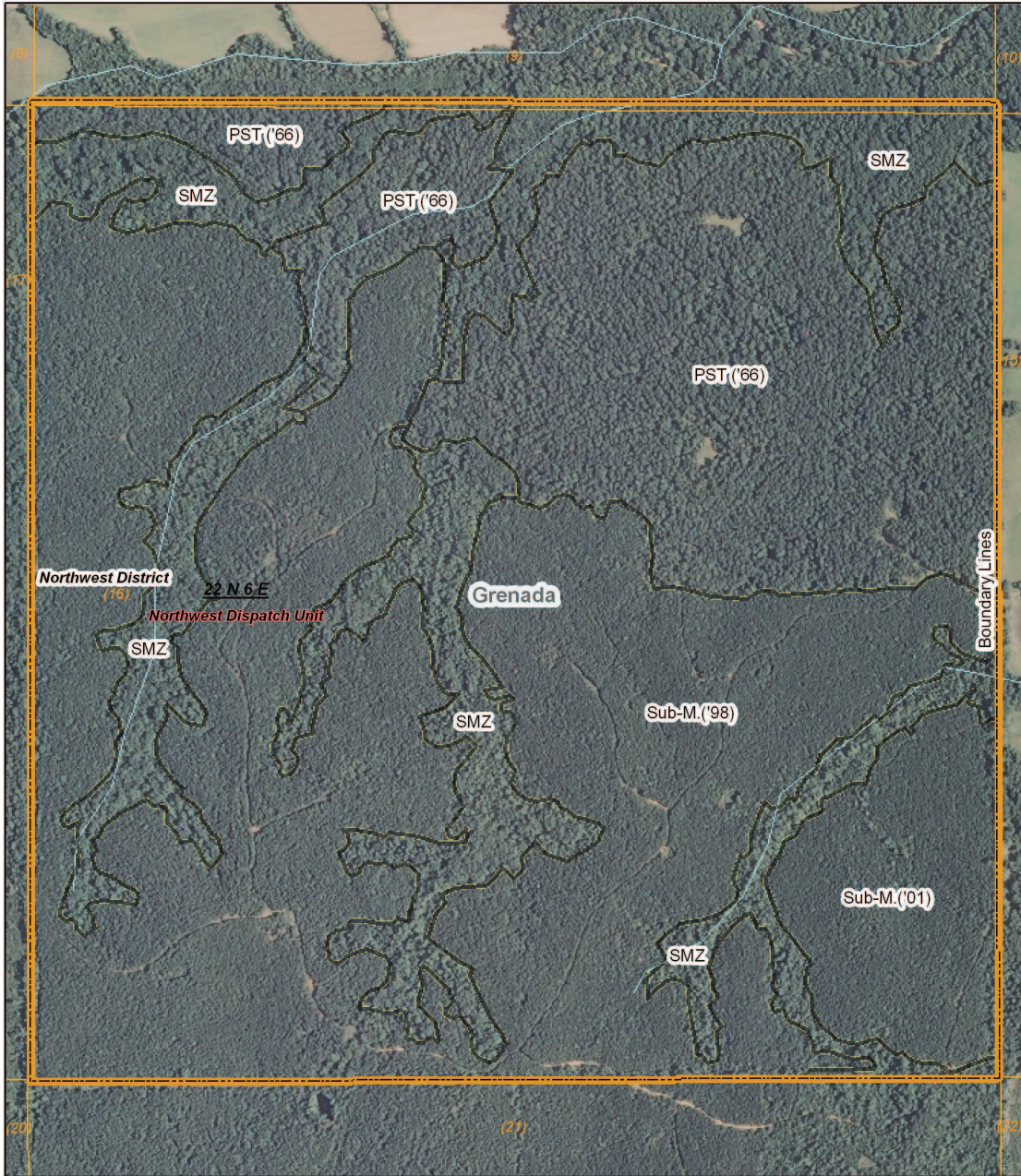
Because the actual need for this work is unpredictable, this cost is NOT included in the Expense & Revenue Spread Sheets included in this plan.

S16-T22N-R6E GRENADA COUNTY PLAN MAP

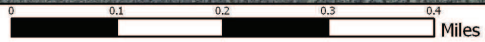


S16-T22N-R6E GRENADA COUNTY PLAN MAP

Redgrass Section
2012 to 2021
638.33 Acres




(12/15/2011)







S16-T22N-R6E GRENADA COUNTY LEGEND

Property

 Property (1)


Category 1: Stands

 Sawtimber (8)


 Sub-Merchantable (2)

MFC Basemap


County Boundary

 County Boundary (1)


Quadrangle Grid

 USGS Quad (1)


PLS Townships

 PLS Townships (1)


Survey Districts

 District 2 (1)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (1)


Block (Census 2000)

 Block (Census 2000) (1)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (1)

School Sections

 School Sections (1)

Public School Districts

 GRENADA SCHOOL DISTRICT (1)

US Congressional District

 US Cong Dist #1 (1)

MS Senate

 8 (1)


MS House

 24 (1)


Intermittent Streams

 Intermittent Streams (3)


Hydrologic Units (Basins)

 YALOBUSHA RIVER ABOVE GRENADA DAM (1)


Historic Forest Boundary

 Red Oak-Hickory-Shortleaf Pine (1)


MS Forest Habitat

 NORTHERN LOESSIAL LOAM HILLS (1)


Physiographic Region


 North Central Hills (1)

Soil Associations


 smithdale-sweatman-providence (1)

Surface Geology


 WILCOX (1)

 TALLAHATTA/NESHOBA SAND (1)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

MS Outline

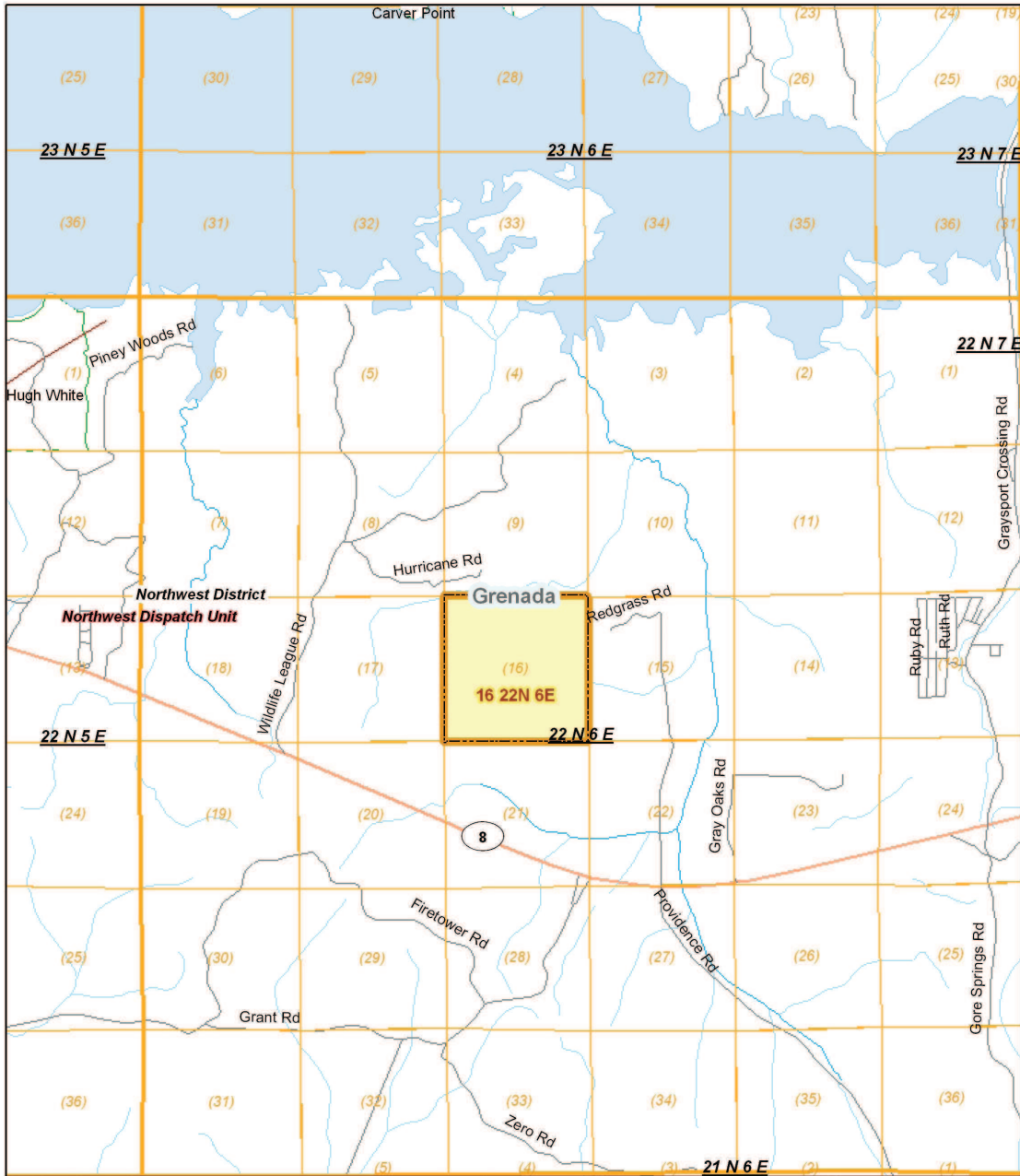
 MS Outline (1)

S16-T22N-R6E GRENADA COUNTY ROAD MAP

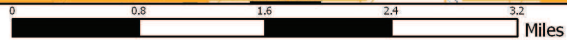


S16-T22N-R6E GRENADA COUNTY ROAD MAP

Redgrass Section
2012 to 2021
638.33 Acres



(12/15/2011)



Stand Activity Schedule for
Grenada County BOE
16 22N 6E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2014					
2	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	133	\$3,316.25	\$0.00
2	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	12	\$310.25	\$0.00
2	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	19	\$477.25	\$0.00
Yearly Totals			164	\$4,103.75	\$0.00
2016					
1	3	Harvest, Mechanical, 1st Thin, Machine, Loblolly	42	\$1,470.00	\$11,298.00
1	7	Harvest, Mechanical, 1st Thin, Machine, Loblolly	308	\$10,777.90	\$82,835.86
Yearly Totals			350	\$12,247.90	\$94,133.86
2017					
2	1	Harvest, Mechanical, Final, Machine, Loblolly	133	\$4,655.00	\$134,596.00
2	2	Harvest, Mechanical, Final, Machine, Loblolly	12	\$434.35	\$12,558.92
2	8	Harvest, Mechanical, Final, Machine, Loblolly	19	\$668.15	\$19,319.08
Yearly Totals			165	\$5,757.50	\$166,474.00
2019					
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	42	\$1,050.00	\$0.00
1	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	308	\$7,698.50	\$0.00
2	1	Site Preparation, Other, Burn, Hand, Cut-Over	133	\$3,316.25	\$0.00
2	1	Regeneration, Artificial, Plant, Hand, Loblolly	133	\$13,265.00	\$0.00
2	1	Site Preparation, Chemical, Broadcast, Aerial, Combination	133	\$13,265.00	\$0.00
2	2	Site Preparation, Chemical, Broadcast, Aerial, Combination	12	\$1,241.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2	2	Site Preparation, Other, Burn, Hand, Cut-Over	12	\$310.25	\$0.00
2	2	Regeneration, Artificial, Plant, Hand, Loblolly	12	\$1,241.00	\$0.00
2	8	Site Preparation, Chemical, Broadcast, Aerial, Combination	19	\$1,909.00	\$0.00
2	8	Regeneration, Artificial, Plant, Hand, Loblolly	19	\$1,909.00	\$0.00
2	8	Site Preparation, Other, Burn, Hand, Cut-Over	19	\$477.25	\$0.00
Yearly Totals			842	\$45,682.25	\$0.00
Grand Totals			1,521	\$67,791.40	\$260,607.86