



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-R5E

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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: 639 Latitude: -89.78 Longitude: 33.77
Section: 16 Township: 22N Range: 5E

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 1.5 miles East of the intersection of Hwy. 8 & 51 in the town of Grenada, and consist of 639.25 acres, of which 298.19 acres are forested. The section consists of the following stands:

STRATUM #1: Pine Sawtimber-21 yr. old (156.62 ac.), estab. 1987. **Stand #** 7, 8, 13, 14, 15, 16, 17 & 18.

STRATUM #2: Hardwood Pulpwood Slew-56 yr. old (88.03ac.), estab. 1955 **Stand #** 4 & 10.

STRATUM #3: Pine Sub. Merchantable-9 yr. old (30.37 ac.), estab. 2002. **Stand #** 1 & 5.

STRATUM #4: Pine Sawtimber-23 yr.old (23.17 ac.), estab. 1988. **Stand #** 3.

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 Batupan Bogue watershed. Batupan Bogue 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.

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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.

Archeological and Cultural Resources

The *Archeological and Cultural Resources*, identified during a reconnaissance of the property, consist of two (2) elementary schools, a retired county landfill, Bogue Creek, a portion of Highway 8, a county road, and numerous businesses. The total acreage involved is 340.01 acres. For management purposes, this area is classified as *Non-forest*, even though 138.90 is forested. The forested area cannot be logged, due to regulations prohibiting traffic across the retired land fill. As a result, the area is utilized as a protective buffer zone around the land fill and the two (2) schools. The area is, also, utilized by the schools as an outdoor classroom and by the local 4-H Archery Club.

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

Mx, Sa - Mixed Alluvial and Sandy Alluvial Land

Generated brief soil descriptions are created for major soil components. The Mixed alluvial land is a miscellaneous area. Loblolly Site Index = 68, Cottonwood Site Index = 110.

Gu - Gullied land, silty

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

Cm - Collins silt loam

The Collins 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 deposits. Depth to a root restrictive layer is greater than 60 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 very high. Shrink-swell potential is low. This soil

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is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 42 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Loblolly Pine Site Index = 105, Cherrybark Oak = 115.

GrC3 - Grenada silt loam, severely eroded

The Grenada 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 18 to 36 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 23 inches during January, February, March, April. 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.

RpF - Ruston-Providence Assoc.

The Ruston component makes up 36 percent of the map unit. Slopes are 17 to 45 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. The Providence component makes up 28 percent of the map unit. Slopes are 12 to 15 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 6e. This soil does not meet hydric criteria. The site index for Loblolly Pine = 85.

Ws - Waverly silt loam

The Waverly component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on stream terraces. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. 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 9 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. Loblolly Site Index = 98, Cherrybark Oak = 110.

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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.

W - Water

Generated brief soil descriptions are created for major soil components. The Water area is a miscellaneous area.

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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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 Sawtimber-24 yr. old (156.62 ac.), estab. 1987. **Stand # 7, 8, 13, 14, 15, 16, 17 & 18.**

Current pine stocking consists of 88 trees per acre with an average diameter of 12 inches and an average Basal Area of 70 square feet per acre. The estimated yield is 95 tons per acre. A minor hardwood component consists of 32 trees per acre with a Basal Area of 21 square feet per acre and an estimated yield of 10 tons per acre.

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Strata Recommendations

This Strata is scheduled for three (3) *Prescribed Burns* and one (1) *Thinning*. The first *Prescribed Burn* is scheduled in **2012** and will be a fuel reduction burn. This will be followed by a *Thinning* in **2014**. The second *Prescribed Burn* is scheduled two years after completion of the thinning in **2017** and will, also, be a fuel reduction burn. The third *Prescribed Burn* is scheduled for **2020**. The purpose of this burn will be wildlife habitat improvement.

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.

Prescribed Burns are scheduled for **2012** and **2017**, with the purpose of reducing the fuel load and or removing logging slash.

Harvest

A *Thinning* is scheduled for this Strata in **2014**. The objective will be to reduce the Basal Area to approximately 70 square feet per acre, targeting diseased, damaged and poorly formed trees. Any pulpwood in the stand should, also, be removed.

Wildlife Management

Prescribed burning is highly recommended for wildlife habitat management where loblolly, shortleaf, longleaf, or slash pine is the primary overstory species. Periodic fire tends to favor understory species that require a more open habitat. Deer, dove, quail and turkey are game species which benefit from prescribed fire. Yield and quality of herbage, legumes, and browse from hardwood sprouts are increased after a prescribed burn. Prescribed burning creates openings for feeding, travel, and dusting.

A *Wildlife Habitat Improvement* prescribed burn is scheduled for **2020**.

Strata 2

Strata Description

Hardwood Pulpwood-Slew-56 yr. old (88.03 ac.), estab. 1955. Stand # 4 & 10.

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Current stocking consists of 385 trees per acre, averaging 6 inches in diameter with a Basal Area of 80 square feet per acre. The estimated yield is 29 tons per acre. {This is a slew; although sawtimber size trees are present, the Strata is considered a pulpwood stand due to poor quality-a result of wet site conditions and poor soil. (The dominant soil type is Alluvial and very sandy)}. This Strata is being managed on an 80 year rotation.

Strata Recommendations

This strata will be managed on an 80 year rotation with *selective* harvesting only. 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 planned for this Strata at this time.

Strata 3

Strata Description

Pine Sub-Merchantable-9 yr. old (30.37 ac.), estab. 2002. **Stand # 1 & 5.**

Current stocking consists of 460 trees per acre with an average diameter of 7 inches and a Basal Area of 130 square feet per acre.

Strata Recommendations

This Strata is scheduled for a chemical *Mid-Rotation Vegetation Management (MRVM)* in **2015** (stand age 14), to control a heavy Sweetgum understory. [This chemical treatment is being recommended because Prescribed Burning is not possible on this Strata, due to it's location within the city limits of Grenada. If the Sweetgum understory redevelops after the 1st thinning, a second chemical treatment can be scheduled. This is normally not necessary, however.] This practice will be followed by a 1st thinning, scheduled for **2018** (stand age 16). The goal of the thinning will be to reduce the average Basal Area to 80 square feet per acre, favoring dominant and codominant trees to form the residual stand, as much as possible.

Activity Recommendations

Vegetation Control

A *Mid-Rotation Vegetation Management (MRVM)* treatment is scheduled for **2015**. The purpose of this treatment is to control a heavy Sweetgum understory. [This chemical treatment is being recommended because Prescribed Burning is not possible on this Strata, due to it's location within the city limits of Grenada.] Normally, only one treatment is needed, however, if the Sweetgum understory redevelopes after the 1st thinning, a second MRVM can be scheduled.

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Harvest

A 1st thinning is scheduled for **2018**. 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.*

Strata 4

Strata Description

Pine Sawtimber- 23 yr. old (23.17 ac.), estab. 1988. **Stand # 3.**

Current stocking consists of 163 trees per acre, with an average diameter of 14 inches. The average Basal Area is 145 square feet per acre. The estimated yield is 103 tons per acre.

Strata Recommendations

This Strata is scheduled for a *Mid-Rotation Vegetation Management (MRVM)* in **2013**. The objective is to control a heavy understory of Sweetgum.

A *Thinning* is scheduled for **2014**. The objective will be to reduce the Basal Area to 80 square feet per acre.

Activity Recommendations

Vegetation Control

A *Mid-Rotation Vegetation Management (MRVM)* treatment is scheduled for **2013**. The purpose of this treatment is to control a heavy Sweetgum understory. [This chemical treatment is being recommended because Prescribed Burning is not possible on this Strata, due to it's location within the city limits of Grenada.] This will, also, allow for a planned thinning the following year, whereas, prescribed burning would not.

Harvest

A *Thinning* is scheduled for **2014**. The goal will be to reduce the Basal Area to approximately 80 square feet per acre. The thinning will target any pulpwood sized trees, as well as, diseased, damaged and poorly formed trees, leaving a residual stand composed mainly of dominant and codominant sawtimber sized trees.

OTHER PLAN ACTIVITIES

Boundary Lines

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Line Description

The Boundary Lines on this section were last painted prior to **2008**. They were marked with Blue paint.

Strata Recommendations

Boundary Line Maintenance is scheduled for **2013** and **2018**. 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 **2013** and **2018**, 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.

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-R5E-GRENADA COUNTY--PLAN MAP

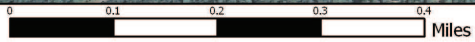
Futheyville Section



2012 to 2021
639.24 Acres



(12/13/2011)

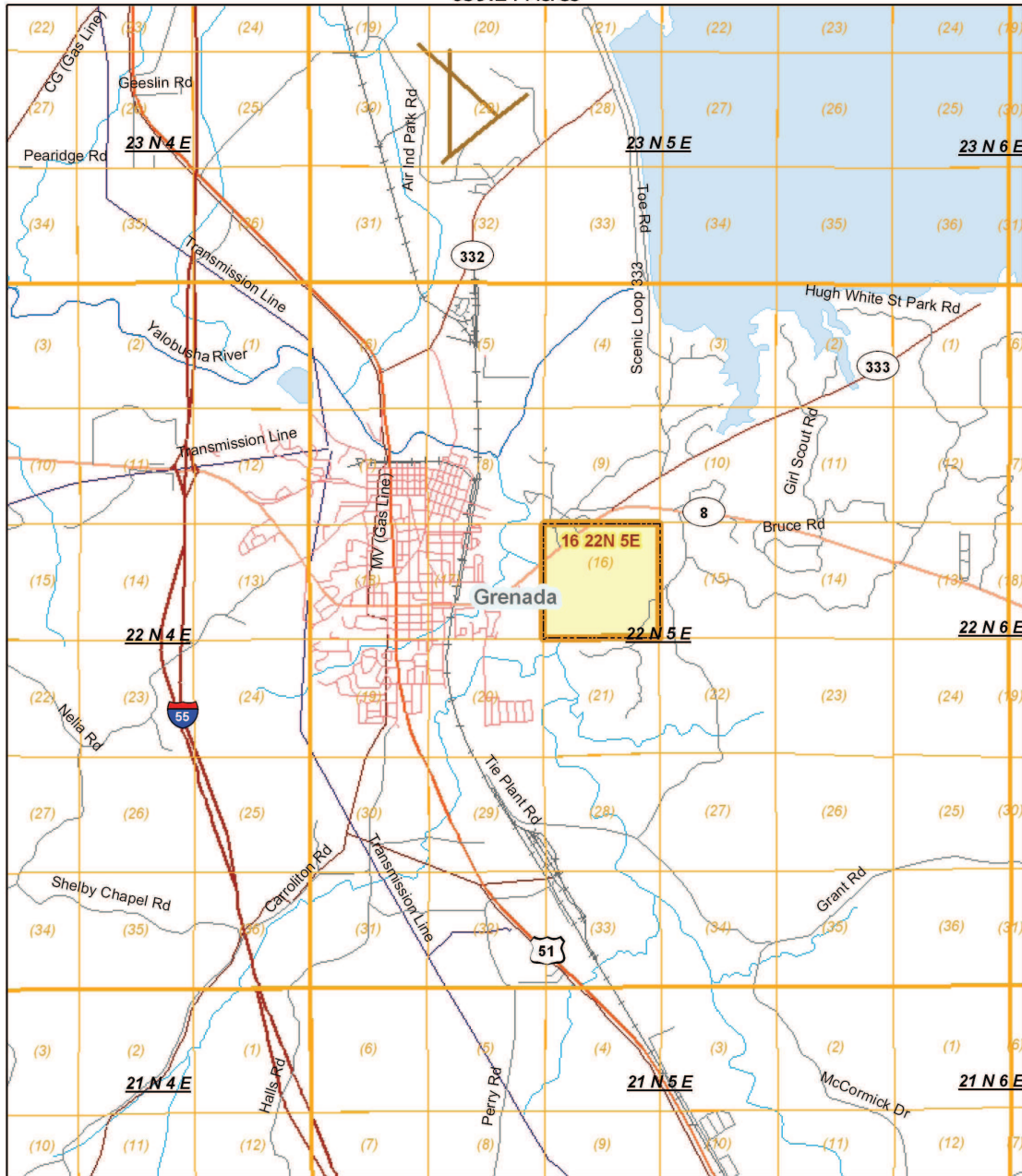


S16-T22N-R5E-GRENADA COUNTY--ROAD MAP

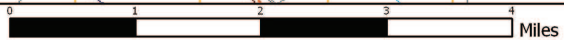
Futheyville Section



2012 to 2021
639.24 Acres




(12/13/2011)







S16-T22N-R5-GRENADA COUNTY--LEGEND

Property


 Property (1)

Category 1: Stands

 Sub-Merchantable (2)


 Sawtimber (11)

Category 3: Non-Forest Stands


 Non-Forest (5)

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) (3)


Block (Census 2000)

 Block (Census 2000) (9)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (2)


County Roads

 County Roads (6)


US/State Highways

 State Highway (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)


Perennial Streams

 Perennial Streams (1)


Intermittent Streams

 Intermittent Streams (1)


Hydrologic Units (Basins)


 YALOBUSHA RIVER ABOVE GRENADA DAM (1)

Historic Forest Boundary


 Oak-Hickory-Magnolia-Poplar (1)


MS Forest Habitat

 NORTHERN LOESSIAL LOAM HILLS (1)

 DEEP LOESS HILLS AND BLUFFS (1)


Physiographic Region

 North Central Hills (1)

 LOESS HILLS (1)

Soil Associations


 smithdale-sweatman-providence (1)

 falaya-collins-waverly (1)


Surface Geology

 TALLAHATTA/NESHOBA SAND (1)


MFC Districts

 MFC Districts (1)


MFC Dispatch Units

 MFC Dispatch Units (1)

Incorporated Cities

 Incorporated Cities (1)

MS Outline

 MS Outline (1)

Stand Activity Schedule for
Grenada County BOE
16 22N 5E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	23	\$680.40	\$0.00
1	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$105.00	\$0.00
1	13	Fire Protection, Other, Burn, Hand, Fuel Reduction	106	\$3,177.30	\$0.00
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	6	\$180.00	\$0.00
1	15	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$129.30	\$0.00
1	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	9	\$275.10	\$0.00
1	17	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	\$59.10	\$0.00
1	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$99.30	\$0.00
Yearly Totals			157	\$4,705.50	\$0.00
2013					
4	3	Vegetation Control, Chemical, MRVM (Mid Rotation Vegetative Mgmt), Machine, Woody	23	\$1,840.00	\$0.00
Yearly Totals			23	\$1,840.00	\$0.00
2014					
1	7	Harvest, Mechanical, Thin, Machine, Loblolly	23	\$793.80	\$15,649.20
1	8	Harvest, Mechanical, Thin, Machine, Loblolly	4	\$122.50	\$2,415.00
1	13	Harvest, Mechanical, Thin, Machine, Loblolly	106	\$3,706.85	\$73,077.90
1	14	Harvest, Mechanical, Thin, Machine, Loblolly	6	\$210.00	\$4,140.00
1	15	Harvest, Mechanical, Thin, Machine, Loblolly	4	\$150.85	\$2,973.90
1	16	Harvest, Mechanical, Thin, Machine, Loblolly	9	\$320.95	\$6,327.30
1	17	Harvest, Mechanical, Thin, Machine, Loblolly	2	\$68.95	\$1,359.30

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
1	18	Harvest, Mechanical, Thin, Machine, Loblolly	3	\$115.85	\$2,283.90	
4	3	Harvest, Mechanical, Thin, Machine, Loblolly	23	\$805.00	\$11,960.00	
			Yearly Totals	180	\$6,294.75	\$120,186.50
2015						
3	1	Vegetation Control, Chemical, MRVM (Mid Rotation Vegetative Mgmt), Machine, Woody	1	\$80.00	\$0.00	
3	5	Vegetation Control, Chemical, MRVM (Mid Rotation Vegetative Mgmt), Machine, Woody	29	\$2,312.00	\$0.00	
			Yearly Totals	30	\$2,392.00	\$0.00
2017						
1	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	23	\$567.00	\$0.00	
1	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$87.50	\$0.00	
1	13	Fire Protection, Other, Burn, Hand, Fuel Reduction	106	\$2,647.75	\$0.00	
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	6	\$144.25	\$0.00	
1	15	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$107.75	\$0.00	
1	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	9	\$229.25	\$0.00	
1	17	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	\$49.25	\$0.00	
1	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$82.75	\$0.00	
			Yearly Totals	157	\$3,915.50	\$0.00
2018						
3	1	Harvest, Mechanical, 1st Thin, Machine, Loblolly	1	\$51.45	\$183.75	
3	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	29	\$1,015.00	\$3,625.00	
			Yearly Totals	30	\$1,066.45	\$3,808.75
2020						
1	7	Wildlife Management, Other, Burn, Hand, Habitat Improvement	23	\$567.00	\$0.00	
1	8	Wildlife Management, Other, Burn, Hand, Habitat Improvement	4	\$87.50	\$0.00	

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
1	13	Wildlife Management, Other, Burn, Hand, Habitat Improvement	106	\$2,647.75	\$0.00
1	14	Wildlife Management, Other, Burn, Hand, Habitat Improvement	6	\$144.25	\$0.00
1	15	Wildlife Management, Other, Burn, Hand, Habitat Improvement	4	\$107.75	\$0.00
1	16	Wildlife Management, Other, Burn, Hand, Habitat Improvement	9	\$229.25	\$0.00
1	17	Wildlife Management, Other, Burn, Hand, Habitat Improvement	2	\$49.25	\$0.00
1	18	Wildlife Management, Other, Burn, Hand, Habitat Improvement	3	\$82.75	\$0.00
Yearly Totals			157	\$3,915.50	\$0.00
Grand Totals			733	\$24,129.70	\$123,995.25