



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

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2012-02-15

Plan Type:
Stewardship / Stewardship

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

Property Name: S16-T23N-R4E

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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.
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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: -89.88 Longitude: 33.86
Section: 16 Township: 23N Range: 4E

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 3 road miles Northwest of Geeslin Corner in the North central part of Grenada County and consist of 639.04 acres, of which 629.04 acres are forested. The section consists of the following stands:

STRATUM #1: Pine Chip-n-Saw-19 yr. old [Thinned 2007], (196.94 ac.), estab. 1992. **Stand # 2 and 3.**

STRATUM #2: Pine Chip-n-Saw-21 yr. old [Thinned 2007], (114.41 ac.), estab. 1990. **Stand # 14 and 15.**

STRATUM #3: Pine Pulpwood-15 yr. old [Thinned 2011], (101.23 ac.), estab. 1996. **Stand # 1, 4, 5, 10, and 18.**

STRATUM #4: Hardwood Sawtimber SMZ-64 yr. old (87.82 ac.), estab. 1947. **Stand # 6, 7, 9, 11, and 13.**

STRATUM #5: Pine Sawtimber-25 yr. old (48.79 ac.), estab. 1986. **Stand # 16, 17, 19, 23, 24, 25, and 29.**

STRATUM #6: Clear-Cut-New (harvest in progress), (79.85 ac.), estab. 2012. **Stand # 12, 26, 27, and 28.**

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 North Yalobusha River watershed. This 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

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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 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

An old (burned out) Church and Cemetery occupy approximately 1.26 acres in the south central part of the section. The site is located at the intersection of Carpenter Road and the logging road, that runs through the section. This area is designated, on the ground, by Yellow paint. This area is excluded from traffic during timber sales and other silvicultural practices.

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

Ws

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 = 95.

MeE, MeE2 - Memphis silt loam

The Memphis component makes up 90 percent of the map unit. Slopes are 12 to 17 percent. This component is on uplands. The parent material consists of loess deposits.

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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 very 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 2 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. Loblolly Site Index = 90, Cherrybark Oak = 100.

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 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.

MeF - Memphis silt loam

The Memphis component makes up 90 percent of the map unit. Slopes are 17 to 40 percent. This component is on uplands. The parent material consists of loess 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 very 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. Loblolly Site Index = 100, Cherrybark Oak = 114.

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.

LoC3 - Loring silt loam

The Loring 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 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 28 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 = 85.

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W - Water

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

LoC2 - Loring silt loam, eroded

The Loring 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 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 28 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 90, Cherrybark Oak = 99.

MeF3 - Memphis silt loam, severely eroded

The Memphis component makes up 90 percent of the map unit. Slopes are 17 to 40 percent. This component is on uplands. The parent material consists of loess 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 very 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 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. Loblolly Site Index = 80.

F1 - 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.

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.

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The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

- Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

Fire Protection

Your forest should be protected from wildfire at all times. The best way to protect your investment is by establishing and maintaining firebreaks around the property. Guidelines for establishment and maintenance of firebreaks may be found in Mississippi Forestry Commission publication #107, *Mississippi's Best Management Practices*.

Grazing

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to the tree planting area.

Boundary Lines

It is the responsibility of the landowner to ensure that all property lines and boundaries designating areas to receive forestry work are clearly identified and visible to all contractors.

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 Chip-n-Saw-19 yr. old [Thinned 2007], (196.94 ac.), estab. 1992. **Stand # 2 and 3.**

Current stocking consists of 175 trees per acre, with an average diameter of 12 inches. The Basal Area is 130 square feet per acre. The estimated yield is 79 tons per acre.

Strata Recommendations

This Strata is scheduled for a *Prescribed Burn* in **2012**. This will be at fuel reduction burn. A *2nd Thinning* is scheduled in **2016** (stand age 24 years), with the objective of reducing the Basal Area to 80 square feet per acre. Approximately, two years after

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completion of the thinning, a fuel reduction *Prescribed Burn* will be conducted, to remove the logging slash. This burn is scheduled for **2019**.

Activity Recommendations

Fire Protection

A prescribed fire is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

Prescribed Burns are scheduled for **2012** and **2019**. Both burns follow thinnings and will be fuel reduction burns designed to remove logging slash.

Harvest

A *2nd Thinning* is scheduled for **2016**. 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.

Strata 2

Strata Description

Pine Chip-n-Saw-21 yr. old [Thinned 2007], (114.41 ac.), estab. 1990. **Stand # 14 and 15.**

Current pine stocking consists of 142 trees per acre, with an average diameter of 12 inches. The Basal Area is 113 square feet per acre. The estimated yield is 101 tons per acre. A minor hardwood component consists of 57 trees per acre, with a Basal Area 22 square feet per acre. The estimated hardwood yield is 12 tons per acre.

Strata Recommendations

This Strata is scheduled for a *Prescribed Burn* in **2012**. The purpose will be fuel reduction.

A *2nd thinning* is scheduled in **2015**. The objective will be to remove all remaining pulpwood and reduce the Basal Area to 80 square feet per acre. Diseased, damaged and ill formed trees will be targeted.

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In **2019**, approximately three years after the thinning is completed, a *prescribed burn* will be done to remove the logging slash and reduce the fuel load.

A *final harvest* is scheduled in **2021**. All merchantable timber will be harvested at this time. [*Stand and market conditions will dictate the actual timing of the timber sales.*]

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 **2019**. Both burns will be fuel reduction burns.

Harvest

A *2nd Thinning* is scheduled for **2015**. The objective will be to remove all remaining pulpwood and reduce the Basal Area to 80 square feet per acre.

A *Final Harvest* is scheduled for **2021** (stand age 31). {This Strata will be combined with Strata 5 for this sale. Strata 5 will be 35 years old and is only 49 acres.} All merchantable timber will be harvested at this time.

Market conditions will dictate the actual timing of these sales.

Strata 3

Strata Description

Pine Pulpwood-15 yr. old [Thinned 2011], (101.23 ac.), estab. 1996. **Stand # 1, 4, 5, 10 and 18.**

Current stocking consists of 178 trees per acre, with an average diameter of 8 inches. The Basal Area is 68 square feet per acre. The estimated yield is 51 tons per acre.

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Strata Recommendations

This Strata is scheduled for a *Prescribed Burn* in **2014** (fuel reduction) and **2017** (wildlife habitat improvement). These burns will be followed by a *2nd Thinning* in **2019**. The goal of the thinning will be to reduce the Basal Area to 80 square feet per acre.

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**. The purpose will be to remove logging slash, from the March 2011 1st thinning, thereby, reducing the fuel load.

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 *Prescribed Burn* is scheduled in **2017**, with the purpose of improving the wildlife habitat. This burn is scheduled approximately three (3) years after the fuel reduction burn.

Harvest

This Strata is scheduled for a *2nd Thinning* in **2019**. The purpose will be to reduce the Basal Area to 80 square feet per acre. Diseased, damaged and ill formed trees will be targeted for removal, with the goal of a residual stand composed, primarily, of dominant and codominant trees of sawtimber or potential sawtimber class.

Strata 4

Strata Description

Hardwood Sawtimber SMZ-64 yr. old (87.82 ac.), estab. 1947. Stand # 6, 7, 9, 11 and 13. {This is a Restricted Management Zone.}

Current stocking consists of 38 trees per acre, with an average diameter of 22 inches. The Basal Area is 114 square feet per acre. The estimated yield is 11 tons per acre.

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Species include both Red Oak and White Oak species, Hickory, Red Maple, Sweetgum, Green Ash and Elm.

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 scheduled for this Strata at this time.

Strata 5

Strata Description

Pine Sawtimber-25 yr. old (48.79 ac.), estab. 1986. **Stand # 16, 17, 19, 23, 24, 25, and 29.**

Current stocking consists of 142 trees per acre, with an average diameter of 12 inches. The Basal Area is 113 square feet per acre. The estimated yield is 101 tons per acre. A minor hardwood component consists of 57 trees per acre, with a Basal Area of 20 square feet per acre. The estimated hardwood yield is 12 tons per acre.

Strata Recommendations

This Strata is scheduled for a fuel reduction Prescribed Burn in **2012** and a wildlife habitat improvement Prescribed Burn in **2015** and **2019**. These burns will be followed by a *Final Harvest* in **2021** (stand age 35). All merchantable timber will be harvested at that time. {This Strata will be combined with Strata 2 for this sale, due to the small acreage of Strata 5.} *Stand and market conditions will dictate the actual timing of the timber sale.*

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 **2012**. This will be a fuel reduction burn.

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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.

Prescribed Burns, to improve the wildlife habitat, are scheduled in **2015** and **2019**.

Harvest

A Final Harvest is scheduled in **2021**. All merchantable timber will be harvested at this time. Due to the small acreage of this Strata (approximately 49 acres), it will be combined with Strata 2 for this sale. *Stand and market condition will dictate the actual timing of the sale.*

Strata 6

Strata Description

Clear-cut [New-logging in progress] (79.85 acres), estab. 2012. **Stand # 12, 26, 27, and 28.**

Current condition: This Strata is under timber sale contract and is being harvested. The contract expires in February 2012 but an extension is expected. All merchantable timber is being harvested.

Strata Recommendations

Once logging is completed, expected to be in the Spring of 2012, the Strata will be allowed to sprout for approximately one (1) year. This will ensure good results from the *Chemical Site Prep*, planned for **FY 2014** (July 15, 2013-Sept. 30, 2013). A *Site Prep Burn* is, also, planned for the **Fall of 2013**, to further prepare the site for tree planting.

Upon completion of all site prep, the Strata will be *Hand Planted* in Improved Loblolly Pine, during the **Winter of 2014** (Jan.1, 2014-March 1, 2014). This will be done on a 7 ft. X 9 ft. spacing (691 trees per acre). The total number of seedlings needed will be 56,000.

Activity Recommendations

Harvest

A *Final Harvest* is in progress on this Strata. All merchantable timber is being harvested. The expected completion date is **Spring 2012**.

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Site Preparation

A *Chemical Site Prep* spray will be scheduled, in FY **2014**, to control competing vegetation and improve the tract for tree planting. This work should be done between July 15, 2013 and Sept. 30, 2013.

Following the chemical work, a *Site Prep Burn* will be conducted, during the fall of FY **2014**, to further prepare the site for tree planting. Preferably, this work should be completed by the end of *November, 2013*.

Regeneration

This Strata is scheduled for *Tree Planting in 2014*. 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 56,000. Planting will be scheduled for *January 1, 2014 - March 1, 2014*.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

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

Line Recommendations

Boundary Line Maintenance is scheduled in **2015** and **2020**. The 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.



S16-T23N-R4E GRENADA COUNTY LEGEND

Property
 Property (1)

Category 1: Stands
 Pulpwood (5)
 Chip-n-Saw (4)
 Clear Cut (4)

Category 1: Stands (cont)
 Sawtimber (12)

Category 3: Non-Forest Stands
 Non-Forest (4)

Boundary Lines
 Property (1)

MFC Basemap

County Boundary
 County Boundary (1)

Quadrangle Grid
 USGS Quad (2)

PLS Townships
 PLS Townships (1)

Survey Districts
 District 2 (1)

Blockgroup (Census 2000)
 Blockgroup (Census 2000) (1)

Block (Census 2000)
 Block (Census 2000) (3)

Tract/BNA (Census 2000)
 Tract/BNA (Census 2000) (1)

County Roads
 County Roads (2)

School Sections
 School Sections (1)

Public School Districts
 GRENADA SCHOOL DISTRICT (1)

US Congressional District
 US Cong Dist #1 (1)

MS Senate
 14 (1)

MS House
 24 (1)

Intermittent Streams
 Intermittent Streams (6)

Hydrologic Units (Basins)
 YALOBUSHA RIVER ABOVE GRENADA DAM (1)

Historic Forest Boundary
 Oak-Hickory-Magnolia-Poplar (1)

MS Forest Habitat
 DEEP LOESS HILLS AND BLUFFS (1)

Physiographic Region
 LOESS HILLS (1)

Soil Associations
 memphis-saffell-loring (1)
 memphis-loring-collins (1)

Surface Geology
 TALLAHATTA/NESHOPA SAND (1)
 ZILPHA/WINONA (1)

MFC Districts
 MFC Districts (1)

MFC Dispatch Units
 MFC Dispatch Units (1)

MS Outline
 MS Outline (1)

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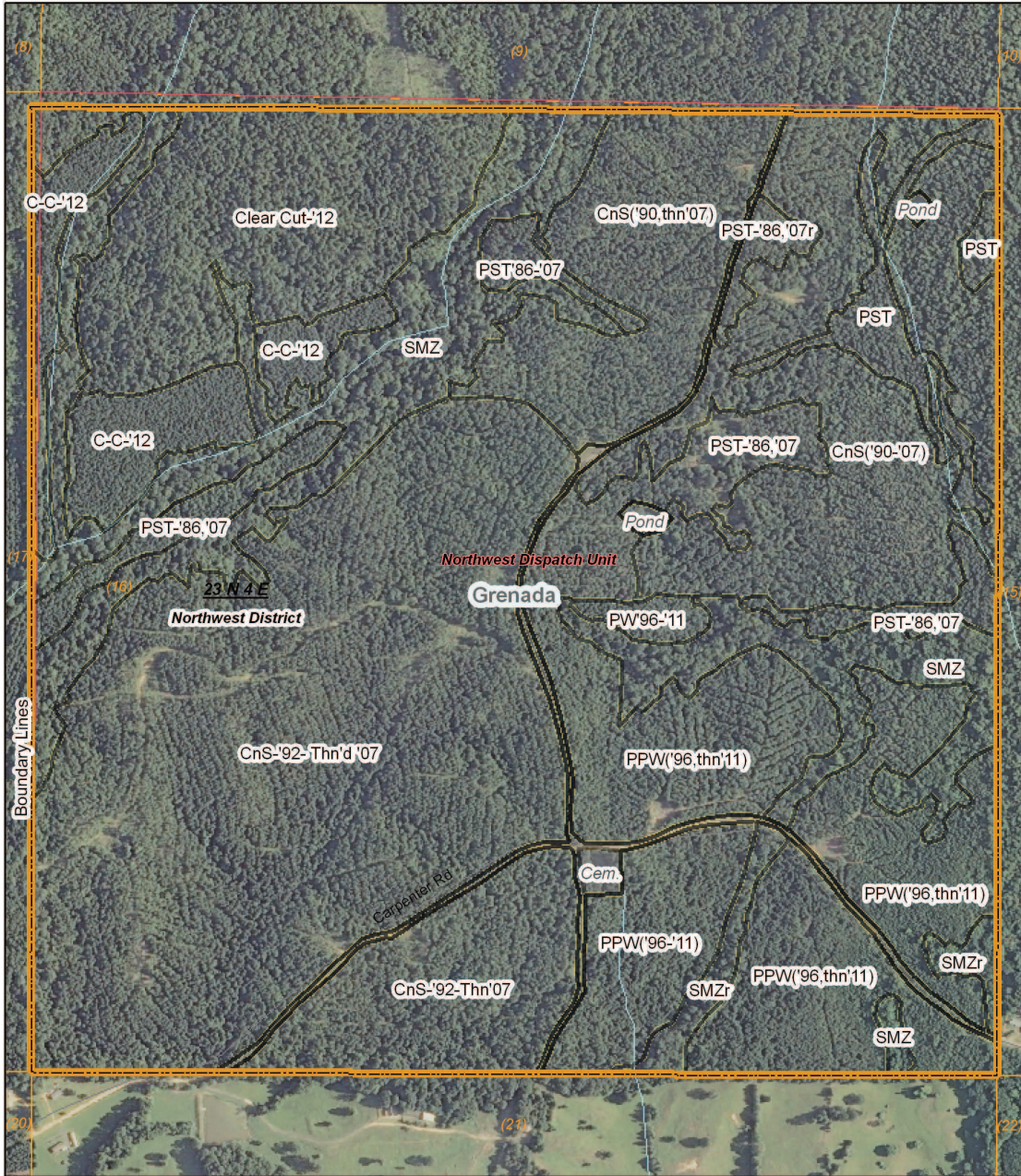


S16-T23N-R4E GRENADA COUNTY PLAN MAP

Geeslin Corner Section



2012 to 2021
639.04 Acres



(01/04/2012)

0 0.1 0.2 0.3 0.4 Miles

S16-T23N-R4E Grenada County ROAD MAP

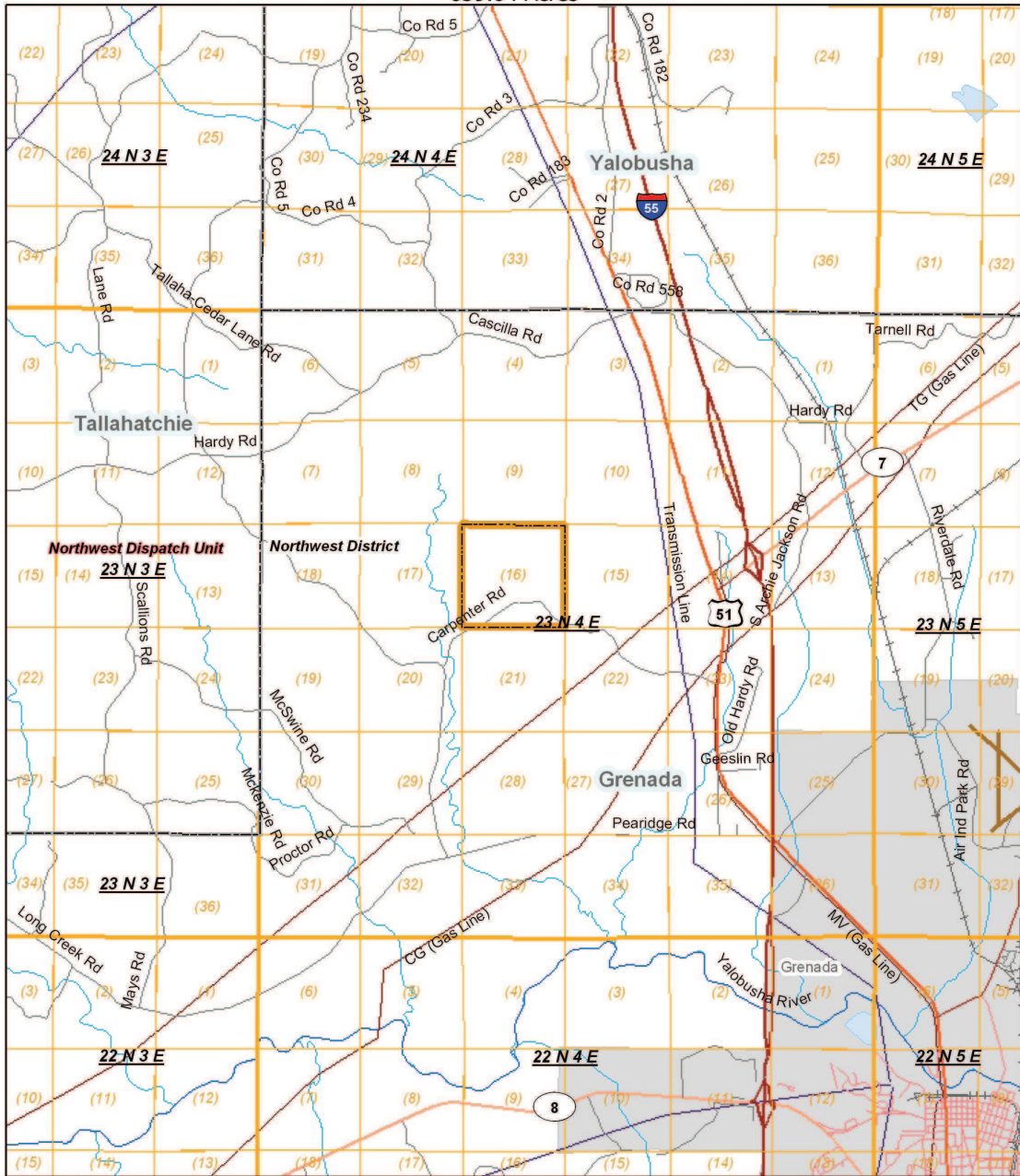


S16-T23N-R4E Grenada County ROAD MAP

Geeslin Corner Section



2012 to 2021
639.04 Acres



(12/22/2011)

0 0.8 1.6 2.4 3.2 Miles

Stand Activity Schedule for
Grenada County BOE
16 23N 4E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	165	\$4,961.70	\$0.00
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	32	\$946.50	\$0.00
2	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	39	\$1,365.00	\$0.00
2	15	Fire Protection, Other, Burn, Hand, Fuel Reduction	75	\$2,622.20	\$0.00
5	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	2	\$60.00	\$0.00
5	17	Fire Protection, Other, Burn, Hand, Fuel Reduction	10	\$314.40	\$0.00
5	19	Fire Protection, Other, Burn, Hand, Fuel Reduction	16	\$493.50	\$0.00
5	23	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$102.90	\$0.00
5	24	Fire Protection, Other, Burn, Hand, Fuel Reduction	4	\$114.90	\$0.00
5	25	Fire Protection, Other, Burn, Hand, Fuel Reduction	5	\$156.00	\$0.00
5	29	Fire Protection, Other, Burn, Hand, Fuel Reduction	8	\$225.90	\$0.00
Yearly Totals			360	\$11,363.00	\$0.00
2014					
3	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	25	\$623.00	\$0.00
3	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	3	\$77.00	\$0.00
3	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	28	\$711.00	\$0.00
3	10	Fire Protection, Other, Burn, Hand, Fuel Reduction	20	\$491.75	\$0.00
3	18	Fire Protection, Other, Burn, Hand, Fuel Reduction	25	\$628.00	\$0.00
6	12	Site Preparation, Other, Burn, Hand, Cut-Over	53	\$1,329.25	\$0.00
6	12	Site Preparation, Chemical, Broadcast, Aerial, Combination	53	\$5,317.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
6	12	Regeneration, Artificial, Plant, Hand, Loblolly	53	\$4,519.45	\$0.00
6	26	Site Preparation, Chemical, Broadcast, Aerial, Combination	5	\$519.00	\$0.00
6	26	Site Preparation, Other, Burn, Hand, Cut-Over	5	\$129.75	\$0.00
6	26	Regeneration, Artificial, Plant, Hand, Loblolly	5	\$441.15	\$0.00
6	27	Site Preparation, Other, Burn, Hand, Cut-Over	12	\$304.00	\$0.00
6	27	Site Preparation, Chemical, Broadcast, Aerial, Combination	12	\$1,216.00	\$0.00
6	27	Regeneration, Artificial, Plant, Hand, Loblolly	12	\$1,033.60	\$0.00
6	28	Site Preparation, Other, Burn, Hand, Cut-Over	9	\$233.25	\$0.00
6	28	Regeneration, Artificial, Plant, Hand, Loblolly	9	\$793.05	\$0.00
6	28	Site Preparation, Chemical, Broadcast, Aerial, Combination	9	\$933.00	\$0.00

Yearly Totals			341	\$19,299.25	\$0.00
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2015

2	14	Harvest, Mechanical, Thin, Machine, Loblolly	39	\$1,382.15	\$25,273.60
2	15	Harvest, Mechanical, Thin, Machine, Loblolly	75	\$2,625.00	\$48,000.00
5	16	Wildlife Management, Other, Burn, Hand, Habitat Improvement	2	\$50.00	\$0.00
5	17	Wildlife Management, Other, Burn, Hand, Habitat Improvement	10	\$262.00	\$0.00
5	19	Wildlife Management, Other, Burn, Hand, Habitat Improvement	16	\$411.25	\$0.00
5	23	Wildlife Management, Other, Burn, Hand, Habitat Improvement	3	\$85.75	\$0.00
5	24	Wildlife Management, Other, Burn, Hand, Habitat Improvement	4	\$95.75	\$0.00
5	25	Wildlife Management, Other, Burn, Hand, Habitat Improvement	5	\$130.00	\$0.00
5	29	Wildlife Management, Other, Burn, Hand, Habitat Improvement	8	\$188.25	\$0.00

Yearly Totals			163	\$5,230.15	\$73,273.60
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2016

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
1	2	Harvest, Mechanical, Thin, Machine, Loblolly	165	\$5,775.00	\$115,995.00
1	3	Harvest, Mechanical, Thin, Machine, Loblolly	32	\$1,104.25	\$22,179.65
Yearly Totals			197	\$6,879.25	\$138,174.65

2017

3	1	Wildlife Management, Other, Burn, Hand, Habitat Improvement	25	\$625.00	\$0.00
3	4	Wildlife Management, Other, Burn, Hand, Habitat Improvement	3	\$77.00	\$0.00
3	5	Wildlife Management, Other, Burn, Hand, Habitat Improvement	28	\$711.00	\$0.00
3	10	Wildlife Management, Other, Burn, Hand, Habitat Improvement	20	\$491.75	\$0.00
3	18	Wildlife Management, Other, Burn, Hand, Habitat Improvement	25	\$628.00	\$0.00
Yearly Totals			101	\$2,532.75	\$0.00

2019

1	2	Fire Protection, Other, Burn, Hand, Fuel Reduction	165	\$4,134.75	\$0.00
1	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	32	\$788.75	\$0.00
2	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	39	\$987.25	\$0.00
2	15	Fire Protection, Other, Burn, Hand, Fuel Reduction	75	\$1,875.00	\$0.00
3	1	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	25	\$875.00	\$11,625.00
3	4	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	3	\$107.80	\$1,432.20
3	5	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	28	\$995.40	\$13,224.60
3	10	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	20	\$688.45	\$9,146.55
3	18	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	25	\$879.20	\$11,680.80
5	16	Wildlife Management, Other, Burn, Hand, Habitat Improvement	2	\$46.75	\$0.00
5	17	Wildlife Management, Other, Burn, Hand, Habitat Improvement	10	\$262.00	\$0.00
5	19	Wildlife Management, Other, Burn, Hand, Habitat Improvement	16	\$411.25	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
5	23	Wildlife Management, Other, Burn, Hand, Habitat Improvement	3	\$85.75	\$0.00	
5	24	Wildlife Management, Other, Burn, Hand, Habitat Improvement	4	\$95.75	\$0.00	
5	25	Wildlife Management, Other, Burn, Hand, Habitat Improvement	5	\$130.00	\$0.00	
5	29	Wildlife Management, Other, Burn, Hand, Habitat Improvement	8	\$200.00	\$0.00	
			Yearly Totals	462	\$12,563.10	\$47,109.15
2021						
2	14	Harvest, Mechanical, Final, Machine, Loblolly	39	\$1,382.15	\$40,635.21	
2	15	Harvest, Mechanical, Final, Machine, Loblolly	75	\$2,625.00	\$77,175.00	
5	16	Harvest, Mechanical, Final, Machine, Loblolly	2	\$65.45	\$1,972.85	
5	17	Harvest, Mechanical, Final, Machine, Loblolly	10	\$366.80	\$11,056.40	
5	19	Harvest, Mechanical, Final, Machine, Loblolly	16	\$560.00	\$16,880.00	
5	23	Harvest, Mechanical, Final, Machine, Loblolly	3	\$120.05	\$3,618.65	
5	24	Harvest, Mechanical, Final, Machine, Loblolly	4	\$134.05	\$4,040.65	
5	25	Harvest, Mechanical, Final, Machine, Loblolly	5	\$182.00	\$5,486.00	
5	29	Harvest, Mechanical, Final, Machine, Loblolly	8	\$280.00	\$8,440.00	
			Yearly Totals	163	\$5,715.50	\$169,304.76
			Grand Totals	1,787	\$63,583.00	\$427,862.16